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

Cover Page

Order ID : P5281

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
P5281-01	RE114D1-20241212
P5281-02	BPOW1-7-20241212
P5281-03	BPOW1-8-20241212
P5281-04	TT101D2-20241212
P5281-05	RE117D1-20241213
P5281-06	RE115D1-20241213
P5281-07	TT189D2-20241213
P5281-08	FB02-20241213
P5281-09	TB

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

Signature : _____

Date: 12/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Chemtech Project # P5281
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 12/13/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
BPOW1-7-20241212 [Terphenyl-d14 - 167%],
BPOW1-8-20241212 [Nitrobenzene-d5 - 112%, Terphenyl-d14 - 160%],
TT101D2-20241212 [Terphenyl-d14 - 138%],
TT101D2-20241212DL [Terphenyl-d14 - 136%],
RE117D1-20241213 [Nitrobenzene-d5 - 116%, Terphenyl-d14 - 155%],
RE115D1-20241213 [Terphenyl-d14 - 154%],
RE115D1-20241213DL [Nitrobenzene-d5 - 136%, Terphenyl-d14 - 187%],
TT189D2-20241213 [Terphenyl-d14 - 146%],
TT189D2-20241213DL [Nitrobenzene-d5 - 140%, Terphenyl-d14 - 198%],
FB02-20241213 [Nitrobenzene-d5 - 112%, Terphenyl-d14 - 147%],
PB165667BL [2,4,6-Tribromophenol - 21%, Terphenyl-d14 - 140%] and
PB165667BS [2,4,6-Tribromophenol - 41%, Nitrobenzene-d5 - 116%]. Failed surrogates are not associated with DOD , Therefore no further corrective action was required.

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

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

The MS {P5280-04MS} with File ID: BN035735.D recoveries met the requirements for all compounds except for 1,4-Dioxane[133%], Failed due to matrix interference, no further corrective action was required.

The MSD {P5280-05MSD} with File ID: BN035736.D recoveries met the acceptable requirements except for 1,4-Dioxane[138%] , Failed due to matrix interference, no further corrective action was required.

The RPD met criteria.
The Blank Spike met requirements for all samples.

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

The Continuous Calibration File ID BN035731.D met the requirements except for 2,4,6-Tribromophenol, Failed compound is not associated with DOD , Therefore no further corrective action was required.

The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol,2-Fluorobiphenyl,2-Fluorophenol,Nitrobenzene-d5,Phenol-d6 and Terphenyl-d14, Failed compound are not associated with DOD , Therefore no further corrective action was required.

The Continuous Calibration File ID BN035776.D met the requirements except for 2,4,6-Tribromophenol , Failed compound is not associated with DOD , Therefore no further corrective action was required.

The Continuous Calibration File ID BN035794.D met the requirements except for 2,4,6-Tribromophenol , Failed compound is not associated with DOD , Therefore no further corrective action was required.

The Continuous Calibration File ID BN035811.D met the requirements except for 2,4,6-Tribromophenol Failed compound is not associated with DOD , Therefore no further corrective action was required.

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5 Failed compound is not associated with DOD , Therefore no further corrective action was required.
The Tuning criteria met requirements.

Samples TT101D2-20241212, RE115D1-20241213 and TT189D2-20241213 were diluted due to high concentrations.

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

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

CHEMTECH PROJECT NUMBER: P5281 MATRIX: Water

METHOD: 8270-Modified/3510

		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.			✓

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

(CONTINUED)

		NA	NO	YES
	The Initial Calibration met the requirements.			
	The Continuous Calibration File ID BN035731.D met the requirements except for 2,4,6-Tribromophenol, Failed compound is not associated with DOD , Therefore no further corrective action was required.			
	The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol,2-Fluorobiphenyl,2-Fluorophenol,Nitrobenzene-d5,Phenol-d6 and Terphenyl-d14, Failed compound are not associated with DOD , Therefore no further corrective action was required.			
	The Continuous Calibration File ID BN035776.D met the requirements except for 2,4,6-Tribromophenol , Failed compound is not associated with DOD , Therefore no further corrective action was required.			
	The Continuous Calibration File ID BN035794.D met the requirements except for 2,4,6-Tribromophenol , Failed compound is not associated with DOD , Therefore no further corrective action was required.			
	The Continuous Calibration File ID BN035811.D met the requirements except for 2,4,6-Tribromophenol Failed compound is not associated with DOD , Therefore no further corrective action was required.			
	The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5 Failed compound is not associated with DOD , Therefore no further corrective action was required.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

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

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria			✓

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

The Surrogate recoveries met the acceptable criteria except for,
BPOW1-7-20241212 [Terphenyl-d14 - 167%],
BPOW1-8-20241212 [Nitrobenzene-d5 - 112%, Terphenyl-d14 - 160%],
TT101D2-20241212 [Terphenyl-d14 - 138%],
TT101D2-20241212DL [Terphenyl-d14 - 136%],
RE117D1-20241213 [Nitrobenzene-d5 - 116%, Terphenyl-d14 - 155%],
RE115D1-20241213 [Terphenyl-d14 - 154%],
RE115D1-20241213DL [Nitrobenzene-d5 - 136%, Terphenyl-d14 - 187%],
TT189D2-20241213 [Terphenyl-d14 - 146%],
TT189D2-20241213DL [Nitrobenzene-d5 - 140%, Terphenyl-d14 - 198%],
FB02-20241213 [Nitrobenzene-d5 - 112%, Terphenyl-d14 - 147%],
PB165667BL [2,4,6-Tribromophenol - 21%, Terphenyl-d14 - 140%] and
PB165667BS [2,4,6-Tribromophenol - 41%, Nitrobenzene-d5 - 116%]. Failed surrogates are not associated with DOD , Therefore no further corrective action was required.

8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓

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

The MS {P5280-04MS} with File ID: BN035735.D recoveries met the requirements for all compounds except for 1,4-Dioxane[133%], Failed due to matrix interference, no further corrective action was required.

The MSD {P5280-05MSD} with File ID: BN035736.D recoveries met the acceptable requirements except for 1,4-Dioxane[138%] , Failed due to matrix interference, no further corrective action was required.

The Blank Spike met requirements for all samples.

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:

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

		NA	NO	YES
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples TT101D2-20241212, RE115D1-20241213 and TT189D2-20241213 were diluted due to high concentrations.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

_____ _____

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 #: **P5281**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **12/27/2024**

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

LAB CHRONICLE

OrderID:	P5281	**OrderDate:**	12/13/2024 1:05:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5281-01	**RE114D1-20241212**	**Water**			**12/12/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/20/24	
P5281-02	**BPOW1-7-20241212**	**Water**			**12/12/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/23/24	
P5281-03	**BPOW1-8-20241212**	**Water**			**12/12/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/23/24	
P5281-04	**TT101D2-20241212**	**Water**			**12/12/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/23/24	
P5281-04DL	**TT101D2-20241212DL**	**Water**			**12/12/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5281-05	**RE117D1-20241213**	**Water**			**12/13/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5281-06	**RE115D1-20241213**	**Water**			**12/13/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5281-06DL	**RE115D1-20241213DL**	**Water**			**12/13/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/26/24	
P5281-07	**TT189D2-20241213**	**Water**			**12/13/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5281-07DL	**TT189D2-20241213DL**	**Water**			**12/13/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/26/24	
P5281-08	**FB02-20241213**	**Water**			**12/13/24**			**12/13/24**
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	

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

Hit Summary Sheet
SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE114D1-20241212									
P5281-01	RE114D1-20241212	WATER	1,4-Dioxane	4.200		0.07	0.2	0.2	ug/L
			Total Svoc :	**4.20**					
			Total Concentration:	**4.20**					
Client ID : TT101D2-20241212									
P5281-04	TT101D2-20241212	WATER	1,4-Dioxane	5.800	E	0.07	0.2	0.2	ug/L
			Total Svoc :	**5.80**					
			Total Concentration:	**5.80**					
Client ID : TT101D2-20241212DL									
P5281-04DL	TT101D2-20241212DL	WATER	1,4-Dioxane	6.100	D	0.14	0.4	0.4	ug/L
			Total Svoc :	**6.10**					
			Total Concentration:	**6.10**					
Client ID : RE117D1-20241213									
P5281-05	RE117D1-20241213	WATER	1,4-Dioxane	0.520		0.07	0.2	0.2	ug/L
			Total Svoc :	**0.52**					
			Total Concentration:	**0.52**					
Client ID : RE115D1-20241213									
P5281-06	RE115D1-20241213	WATER	1,4-Dioxane	6.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :	**6.00**					
			Total Concentration:	**6.00**					
Client ID : RE115D1-20241213DL									
P5281-06DL	RE115D1-20241213DL	WATER	1,4-Dioxane	7.200	D	0.14	0.4	0.4	ug/L
			Total Svoc :	**7.20**					
			Total Concentration:	**7.20**					
Client ID : TT189D2-20241213									
P5281-07	TT189D2-20241213	WATER	1,4-Dioxane	6.700	E	0.08	0.23	0.23	ug/L
			Total Svoc :	**6.70**					
			Total Concentration:	**6.70**					
Client ID : TT189D2-20241213DL									
P5281-07DL	TT189D2-20241213DL	WATER	1,4-Dioxane	8.100	D	0.15	0.45	0.45	ug/L
			Total Svoc :	**8.10**					
			Total Concentration:	**8.10**					

QC
SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P5280-04MS	BPOW6-11-20241212MS	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.28	70		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5280-05MSD	BPOW6-11-20241212MSD	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5281-01	RE114D1-20241212	2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
P5281-02	BPOW1-7-20241212	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.67	167	*	58	132
P5281-03	BPOW1-8-20241212	2-Methylnaphthalene-d10	0.4	0.37	94		30	150
		Fluoranthene-d10	0.4	0.50	124		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
P5281-04	TT101D2-20241212	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P5281-04DL	TT101D2-20241212DL	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.44	111		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.54	136	*	58	132
P5281-05	RE117D1-20241213	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.46	116	*	55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
P5281-06	RE115D1-20241213	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.43	108		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.62	154	*	58	132
P5281-06DL	RE115D1-20241213DL	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.53	133		30	150
		Nitrobenzene-d5	0.4	0.54	136	*	55	111
		2-Fluorobiphenyl	0.4	0.43	106		53	106
		Terphenyl-d14	0.4	0.75	187	*	58	132
P5281-07	TT189D2-20241213	2-Methylnaphthalene-d10	0.4	0.34	84		30	150

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

Surrogate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5281-07	TT189D2-20241213	Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.58	146	*	58	132
P5281-07DL	TT189D2-20241213DL	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.55	138		30	150
		Nitrobenzene-d5	0.4	0.56	140	*	55	111
		2-Fluorobiphenyl	0.4	0.43	106		53	106
		Terphenyl-d14	0.4	0.79	198	*	58	132
P5281-08	FB02-20241213	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
PB165667BL	PB165667BL	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
PB165667BS	PB165667BS	2-Methylnaphthalene-d10	0.4	0.46	115		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.47	116	*	55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.43	108		58	132

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.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5280-04MS		**Client Sample ID:** BPOW6-11-20241212MS						**DataFile:** BN035735.D			
1,4-Dioxane	0.4	0	0.53	ug/L	133	*			70	130	

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.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5280-05MSD		**Client Sample ID:** BPOW6-11-20241212MSD						**DataFile:** BN035736.D			
1,4-Dioxane	0.4	0	0.55	ug/L	138	*	4		70	130	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.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035808.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165667BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165667BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035795.D Lab Sample ID: PB165667BL

Instrument ID: BNA_N Date Extracted: 12/16/2024

Matrix: (soil/water) Water Date Analyzed: 12/23/2024

Level: (low/med) LOW Time Analyzed: 22:52

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE117D1-20241213	P5281-05	BN035797.D	12/24/2024
RE115D1-20241213	P5281-06	BN035798.D	12/24/2024
TT189D2-20241213	P5281-07	BN035799.D	12/24/2024
FB02-20241213	P5281-08	BN035800.D	12/24/2024
PB165667BS	PB165667BS	BN035808.D	12/24/2024
BPOW6-11-20241212MS	P5280-04MS	BN035735.D	12/20/2024
BPOW6-11-20241212MSD	P5280-05MSD	BN035736.D	12/20/2024
RE114D1-20241212	P5281-01	BN035742.D	12/20/2024
TT101D2-20241212	P5281-04	BN035778.D	12/23/2024
BPOW1-7-20241212	P5281-02	BN035791.D	12/23/2024
BPOW1-8-20241212	P5281-03	BN035796.D	12/23/2024

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035349.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
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	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	14 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09

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: AECO15

Lab Code: CHEM SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035730.D DFTPP Injection Date: 12/20/2024

Instrument ID: BNA_N DFTPP Injection Time: 07:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	38.3
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	28.6
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	15.5 (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
SSTDCCC0.4	SSTDCCC0.4	BN035731.D	12/20/2024	08:04
BPOW6-11-20241212MS	P5280-04MS	BN035735.D	12/20/2024	11:05
BPOW6-11-20241212MSD	P5280-05MSD	BN035736.D	12/20/2024	11:41
RE114D1-20241212	P5281-01	BN035742.D	12/20/2024	15:18
SSTDCCC0.4EC	SSTDCCC0.4	BN035747.D	12/20/2024	18:18

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: AECO15

Lab Code: CHEM SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035775.D DFTPP Injection Date: 12/23/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035776.D	12/23/2024	10:22
TT101D2-20241212	P5281-04	BN035778.D	12/23/2024	11:32
BPOW1-7-20241212	P5281-02	BN035791.D	12/23/2024	19:15
SSTDCCC0.4EC	SSTDCCC0.4	BN035792.D	12/23/2024	19:51

Raw Data: **BN035793.D**

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035793.D DFTPP Injection Date: 12/23/2024

Instrument ID: BNA_N DFTPP Injection Time: 20:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	32.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.9
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	26.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	13.8 (22.6) 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
SSTDCCC0.4	SSTDCCC0.4	BN035794.D	12/23/2024	22:16
PB165667BL	PB165667BL	BN035795.D	12/23/2024	22:52
BPOW1-8-20241212	P5281-03	BN035796.D	12/23/2024	23:27
RE117D1-20241213	P5281-05	BN035797.D	12/24/2024	00:03
RE115D1-20241213	P5281-06	BN035798.D	12/24/2024	00:38
TT189D2-20241213	P5281-07	BN035799.D	12/24/2024	01:14
FB02-20241213	P5281-08	BN035800.D	12/24/2024	01:49
PB165667BS	PB165667BS	BN035808.D	12/24/2024	06:34
SSTDCCC0.4EC	SSTDCCC0.4	BN035809.D	12/24/2024	07:09

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: AECO15

Lab Code: CHEM SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035810.D DFTPP Injection Date: 12/24/2024

Instrument ID: BNA_N DFTPP Injection Time: 07:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.2
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	29.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	15.2 (18.4) 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
SSTDCCC0.4	SSTDCCC0.4	BN035811.D	12/24/2024	08:59
TT101D2-20241212DL	P5281-04DL	BN035813.D	12/24/2024	10:10
SSTDCCC0.4EC	SSTDCCC0.4	BN035828.D	12/24/2024	19:05

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: AECO15

Lab Code: CHEM SAS No.: P5281 SDG NO.: P5281

Lab File ID: BN035844.D DFTPP Injection Date: 12/26/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	32.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
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	27.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	14.1 (20.5) 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
SSTDCCC0.4	SSTDCCC0.4	BN035845.D	12/26/2024	09:58
TT189D2-20241213DL	P5281-07DL	BN035856.D	12/26/2024	16:42
RE115D1-20241213DL	P5281-06DL	BN035858.D	12/26/2024	17:53
SSTDCCC0.4EC	SSTDCCC0.4	BN035861.D	12/26/2024	19:41

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035731.D Time Analyzed: 08:04

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	3239	7.271	8431	10.02	5341	13.92
	UPPER LIMIT	6478	7.771	16862	10.52	10682	14.424
	LOWER LIMIT	1619.5	6.771	4215.5	9.52	2670.5	13.424
	EPA SAMPLE NO.						
01	BPOW6-11-20241212MS	3051	7.27	8358	10.01	5197	13.92
02	BPOW6-11-20241212MSD	3357	7.27	9243	10.01	5773	13.92
03	RE114D1-20241212	3072	7.27	8100	10.01	5112	13.93

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035731.D Time Analyzed: 08:04

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	10575	16.698	8878	20.956	9229	23.038
	UPPER LIMIT	21150	17.198	17756	21.456	18458	23.538
	LOWER LIMIT	5287.5	16.198	4439	20.456	4614.5	22.538
	EPA SAMPLE NO.						
01	BPOW6-11-20241212MS	10502	16.70	9278	20.95	9467	23.04
02	BPOW6-11-20241212MSD	12117	16.70	11029	20.95	11370	23.04
03	RE114D1-20241212	9978	16.70	8603	20.96	8488	23.04

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.

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035776.D Time Analyzed: 10:22

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	3884	7.264	10099	10.01	5893	13.92
	UPPER LIMIT	7768	7.764	20198	10.509	11786	14.424
	LOWER LIMIT	1942	6.764	5049.5	9.509	2946.5	13.424
	EPA SAMPLE NO.						
01	BPOW1-7-20241212	3489	7.26	8414	10.01	4915	13.92
02	TT101D2-20241212	3150	7.26	7756	10.01	5021	13.92

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035776.D Time Analyzed: 10:22

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11548	16.698	8770	20.947	8918	23.026
	UPPER LIMIT	23096	17.198	17540	21.447	17836	23.526
	LOWER LIMIT	5774	16.198	4385	20.447	4459	22.526
	EPA SAMPLE NO.						
01	BPOW1-7-20241212	9153	16.70	6808	20.95	6994	23.03
02	TT101D2-20241212	9829	16.70	7584	20.95	7486	23.03

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035794.D Time Analyzed: 22:16

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	3234	7.264	7877	10.01	4482	13.92
	UPPER LIMIT	6468	7.764	15754	10.509	8964	14.424
	LOWER LIMIT	1617	6.764	3938.5	9.509	2241	13.424
	EPA SAMPLE NO.						
01	BPOW1-8-20241212	2754	7.26	6301	10.01	3973	13.93
02	RE117D1-20241213	3510	7.26	8407	10.01	4886	13.93
03	RE115D1-20241213	3252	7.26	7609	10.01	4867	13.92
04	TT189D2-20241213	3279	7.26	7719	10.01	4881	13.92
05	FB02-20241213	3456	7.26	8002	10.01	4899	13.93
06	PB165667BL	4926	7.26	11442	10.01	7253	13.92
07	PB165667BS	4067	7.26	9754	10.01	5527	13.91

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035794.D Time Analyzed: 22:16

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	8845	16.698	7163	20.947	7277	23.032
	UPPER LIMIT	17690	17.198	14326	21.447	14554	23.532
	LOWER LIMIT	4422.5	16.198	3581.5	20.447	3638.5	22.532
	EPA SAMPLE NO.						
01	BPOW1-8-20241212	7887	16.70	6724	20.95	6522	23.03
02	RE117D1-20241213	9472	16.70	7607	20.95	7540	23.03
03	RE115D1-20241213	9367	16.70	7413	20.95	7624	23.03
04	TT189D2-20241213	10153	16.70	8372	20.95	8287	23.03
05	FB02-20241213	9904	16.70	7907	20.95	7434	23.03
06	PB165667BL	12605	16.71	9944	20.96	9785	23.04
07	PB165667BS	10920	16.70	9467	20.95	9435	23.03

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	3972	7.264	9483	10.00	5387	13.92
	UPPER LIMIT	7944	7.764	18966	10.498	10774	14.424
	LOWER LIMIT	1986	6.764	4741.5	9.498	2693.5	13.424
	EPA SAMPLE NO.						
01	TT101D2-20241212DL	3005	7.26	6792	10.01	4271	13.92

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	10855	16.698	8569	20.947	8879	23.029
	UPPER LIMIT	21710	17.198	17138	21.447	17758	23.529
	LOWER LIMIT	5427.5	16.198	4284.5	20.447	4439.5	22.529
	EPA SAMPLE NO.						
01	TT101D2-20241212DL	8487	16.70	6764	20.95	6806	23.03

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	3755	7.257	9322	10.00	5387	13.91
	UPPER LIMIT	7510	7.757	18644	10.499	10774	14.414
	LOWER LIMIT	1877.5	6.757	4661	9.499	2693.5	13.414
	EPA SAMPLE NO.						
01	RE115D1-20241213DL	2930	7.26	6901	10.00	4611	13.91
02	TT189D2-20241213DL	3270	7.26	7531	10.00	4933	13.91

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.: P5281 SAS No.: P5281 SDG NO.: P5281

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11262	16.686	9932	20.938	10817	23.021
	UPPER LIMIT	22524	17.186	19864	21.438	21634	23.521
	LOWER LIMIT	5631	16.186	4966	20.438	5408.5	22.521
	EPA SAMPLE NO.						
01	RE115D1-20241213DL	10065	16.70	7379	20.95	6927	23.03
02	TT189D2-20241213DL	10717	16.69	7941	20.95	7194	23.03

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.

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **BN035742.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035742.D	1	12/16/24 11:30	12/20/24 15:18	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3070	7.272				
1146-65-2	Naphthalene-d8	8100	10.009				
15067-26-2	Acenaphthene-d10	5110	13.925				
1517-22-2	Phenanthrene-d10	9980	16.698				
1719-03-5	Chrysene-d12	8600	20.956				
1520-96-3	Perylene-d12	8490	23.041				

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

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

Sample Results: **BN035742.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035742.D
Acq On : 20 Dec 2024 15:18
Operator : RC/JU
Sample : P5281-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 20 17:13:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	3072	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8100	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	5112	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9978	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	8603	0.400	ng	0.00
35) Perylene-d12	23.041	264	8488	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	718	0.093	ng	0.00
5) Phenol-d6	6.484	99	450	0.049	ng	0.00
8) Nitrobenzene-d5	8.408	82	1575m	0.318	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	3379	0.267	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	542	0.149	ng	0.00
15) 2-Fluorobiphenyl	12.544	172	4845	0.251	ng	0.00
27) Fluoranthene-d10	18.757	212	9298	0.329	ng	0.00
31) Terphenyl-d14	19.389	244	7270	0.428	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	12247	4.170	ng	98
6) bis(2-Chloroethyl)ether	6.723	93	341	0.044	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	906	0.076	ng	# 95

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

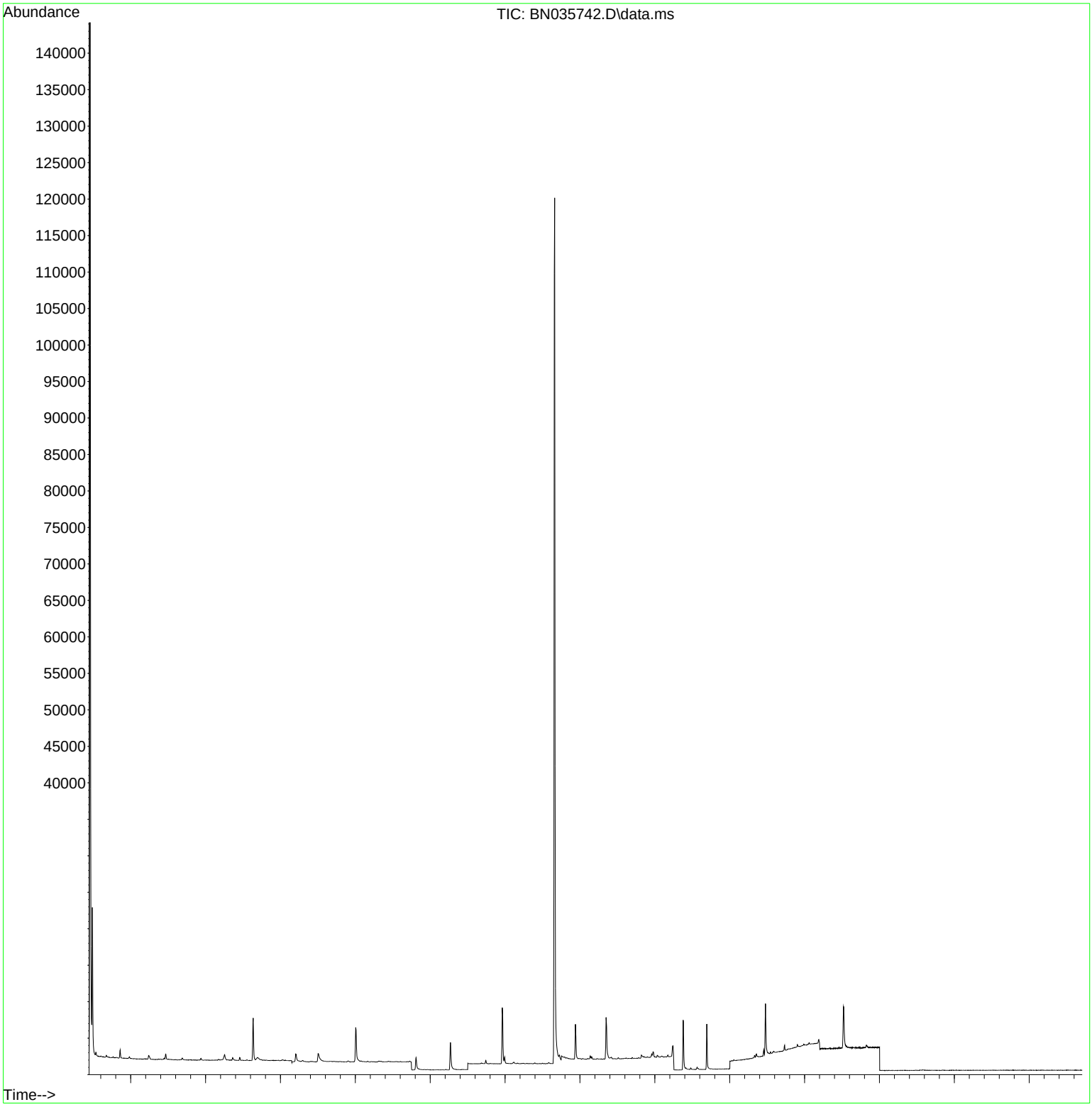
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035742.D
Acq On : 20 Dec 2024 15:18
Operator : RC/JU
Sample : P5281-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

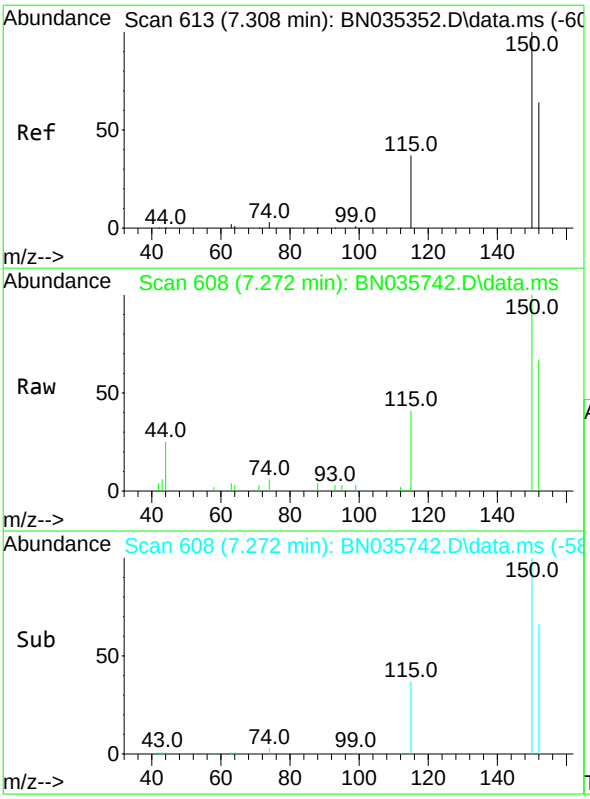
Quant Time: Dec 20 17:13:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

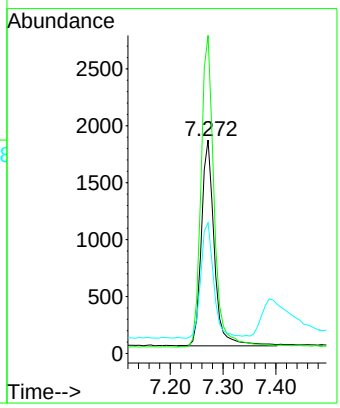




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 60
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:152 Resp: 3072

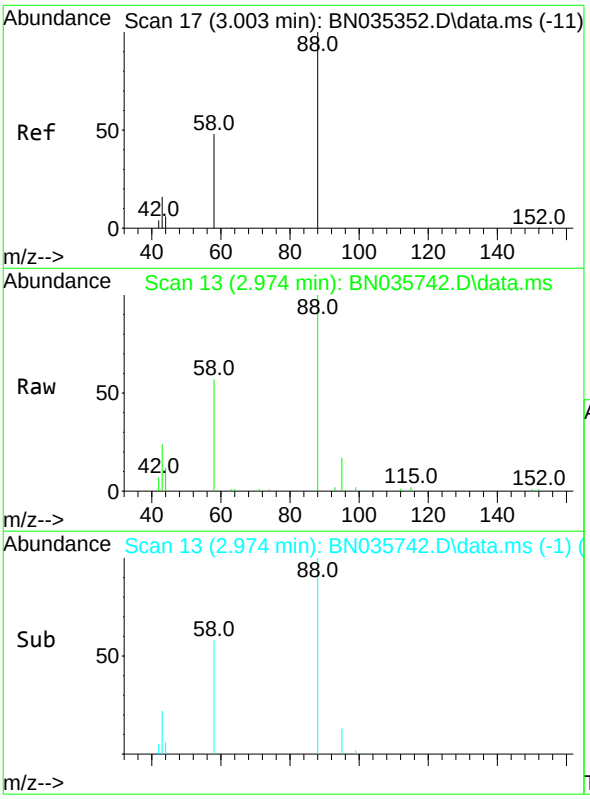
Ion	Ratio	Lower	Upper
152	100		
150	149.0	124.0	186.0
115	61.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

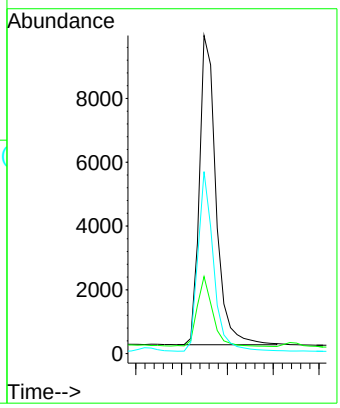
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

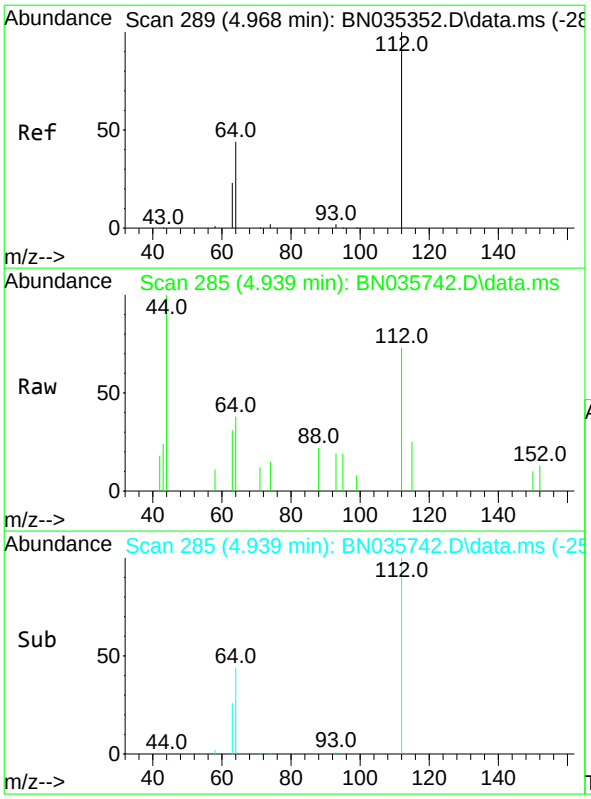


#2
1,4-Dioxane
Concen: 4.170 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion: 88 Resp: 12247

Ion	Ratio	Lower	Upper
88	100		
43	21.0	17.2	25.8
58	54.3	44.5	66.7





#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.939 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

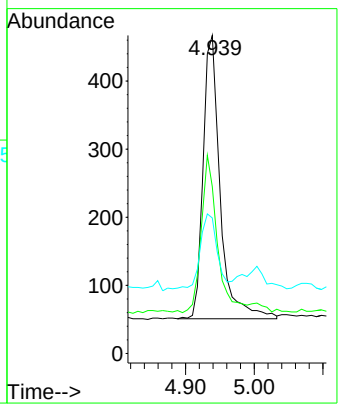
Tgt Ion:112 Resp: 718

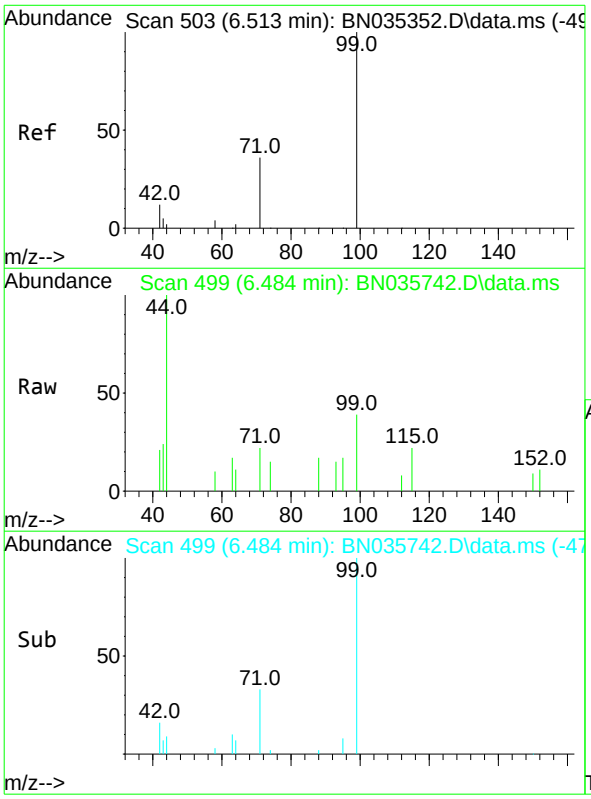
Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	25.9	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

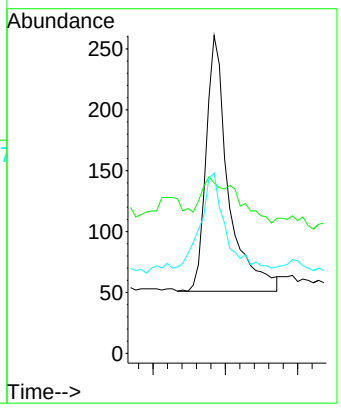


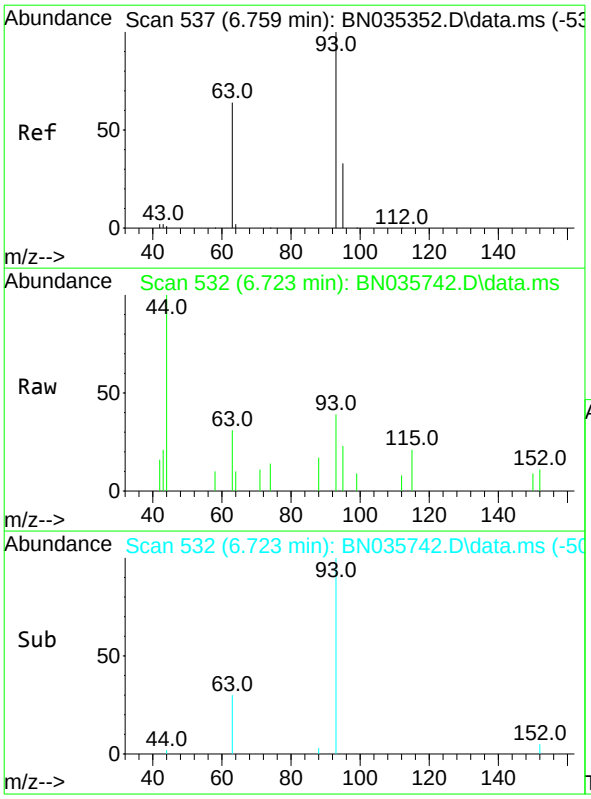


#5
Phenol-d6
Concen: 0.049 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion: 99 Resp: 450

Ion	Ratio	Lower	Upper
99	100		
42	28.4	11.4	17.2#
71	44.2	29.3	43.9#

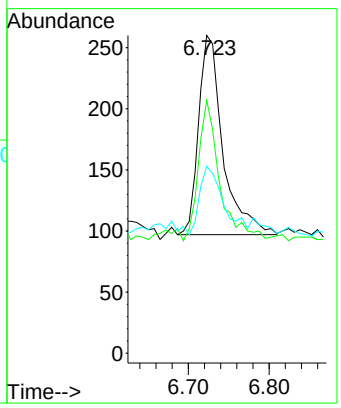




#6
bis(2-Chloroethyl)ether
Concen: 0.044 ng
RT: 6.723 min Scan# 53
Delta R.T. -0.007 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion: 93 Resp: 341

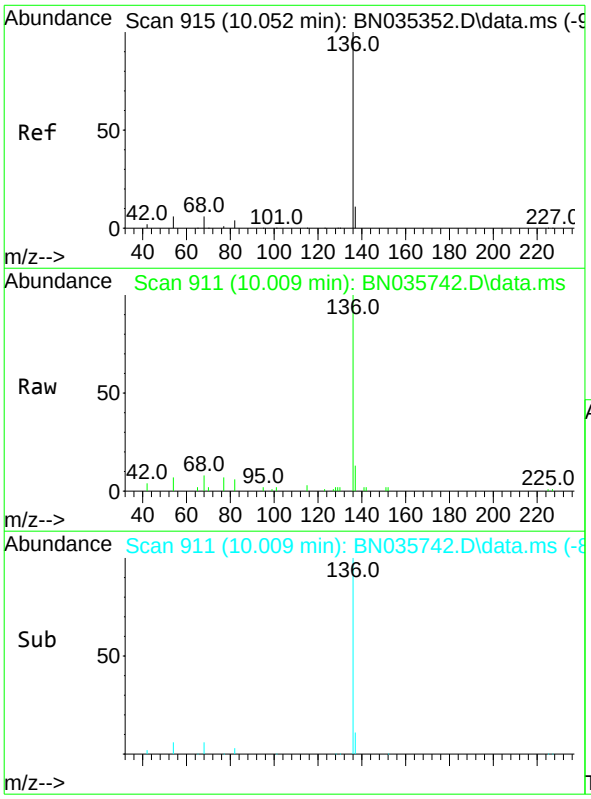
Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	33.4	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

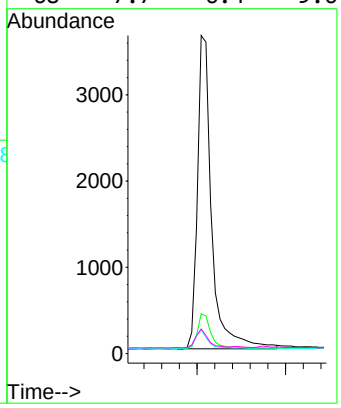
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

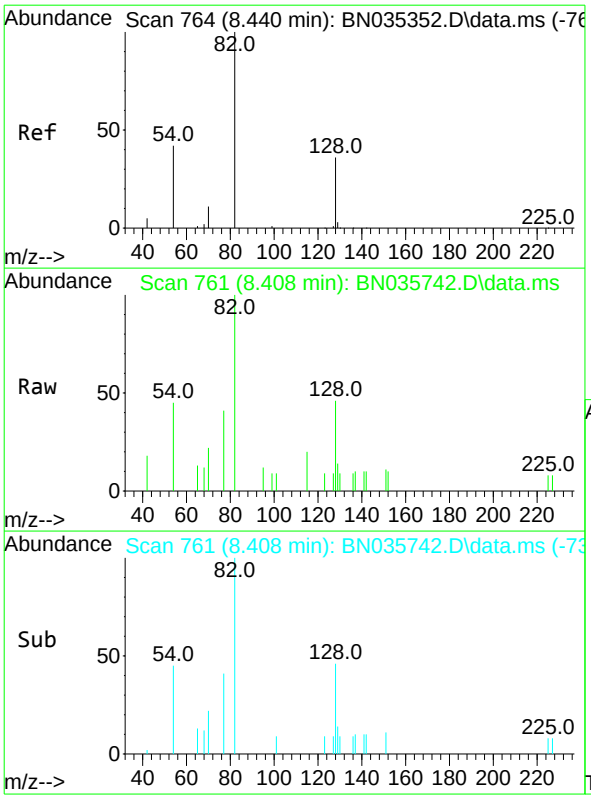


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:136 Resp: 8100

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	7.4	6.1	9.1
68	7.7	6.4	9.6

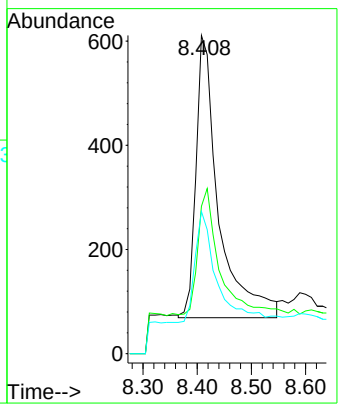




#8
Nitrobenzene-d5
Concen: 0.318 ng m
RT: 8.408 min Scan# 76
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion: 82 Resp: 1575

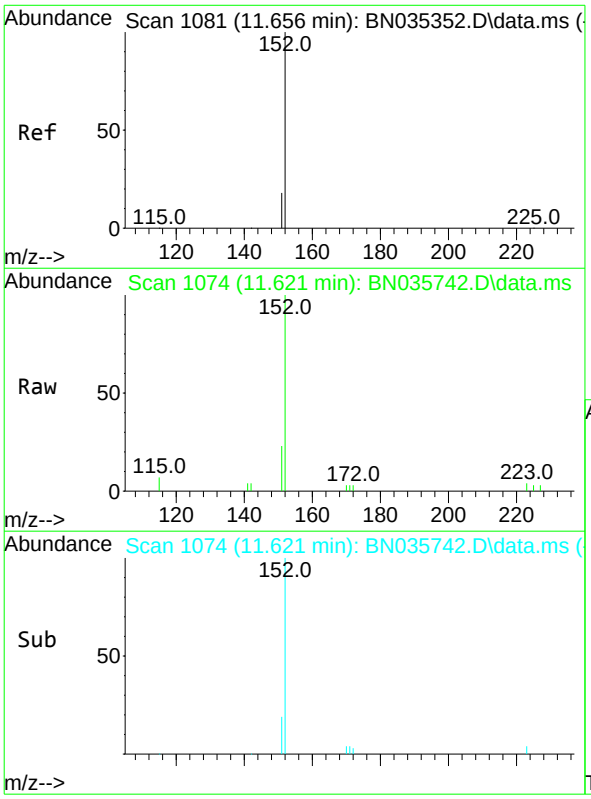
Ion	Ratio	Lower	Upper
82	100		
128	46.3	33.4	50.0
54	44.7	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

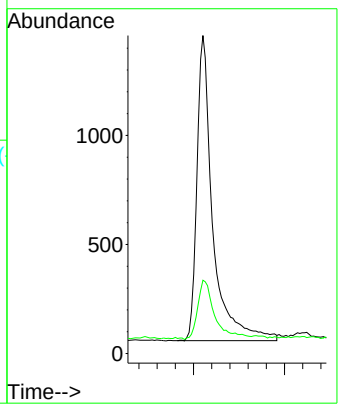
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

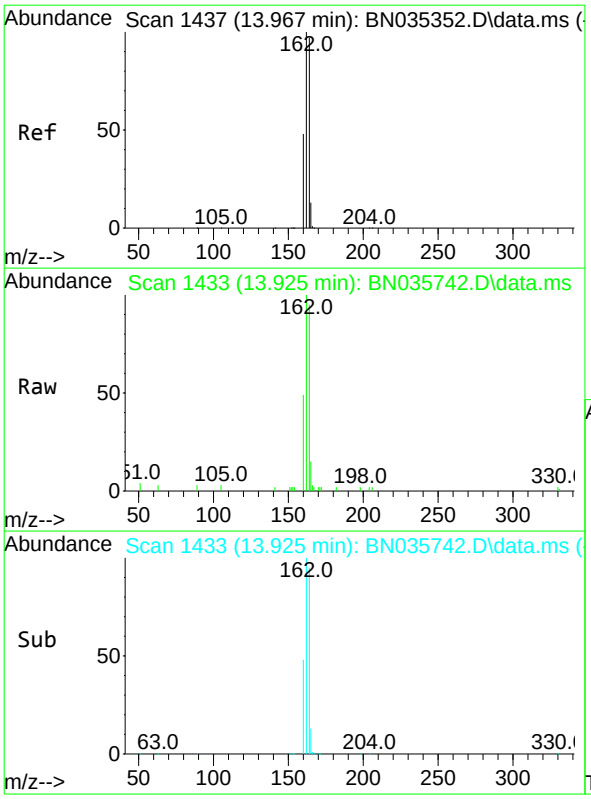


#11
2-Methylnaphthalene-d10
Concen: 0.267 ng
RT: 11.621 min Scan# 1074
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:152 Resp: 3379

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

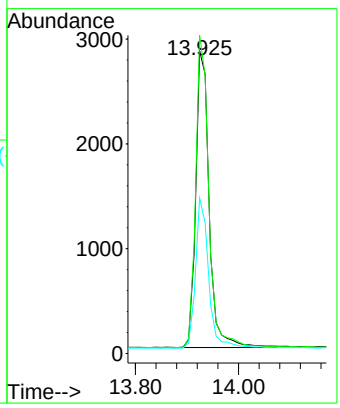
Tgt Ion:164 Resp: 5112

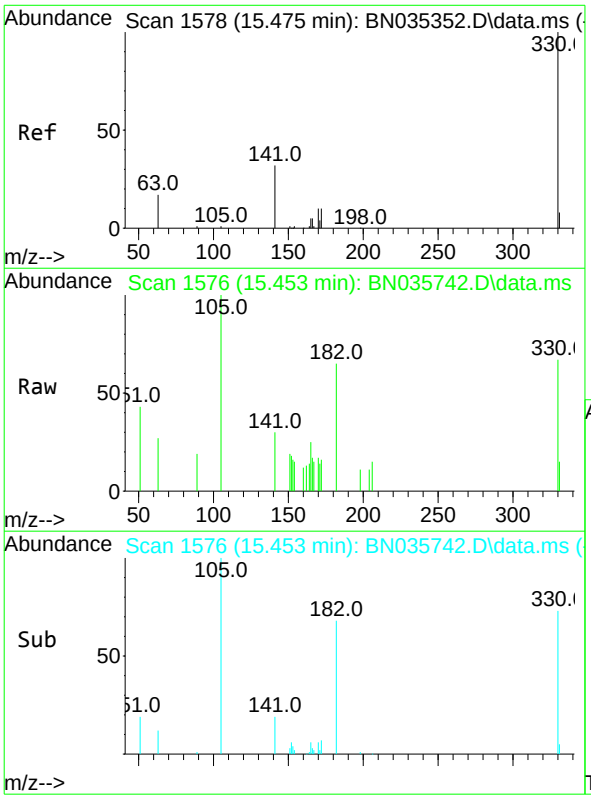
Ion	Ratio	Lower	Upper
164	100		
162	105.1	82.2	123.2
160	51.3	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

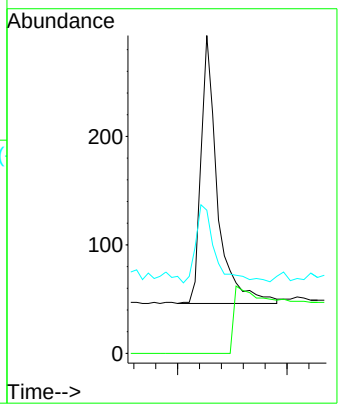


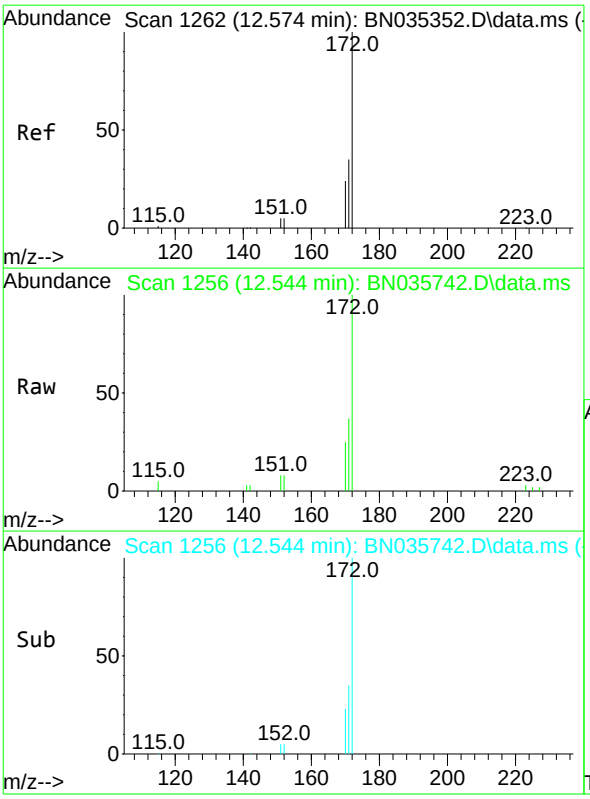


#14
2,4,6-Tribromophenol
Concen: 0.149 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:330 Resp: 542

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.251 ng
RT: 12.544 min Scan# 12
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

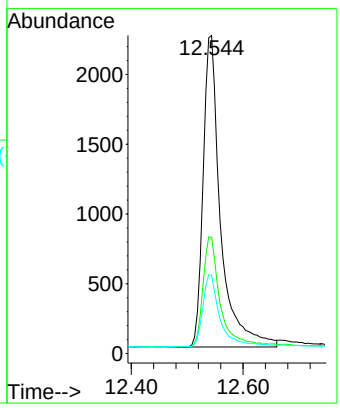
Tgt Ion:172 Resp: 4845

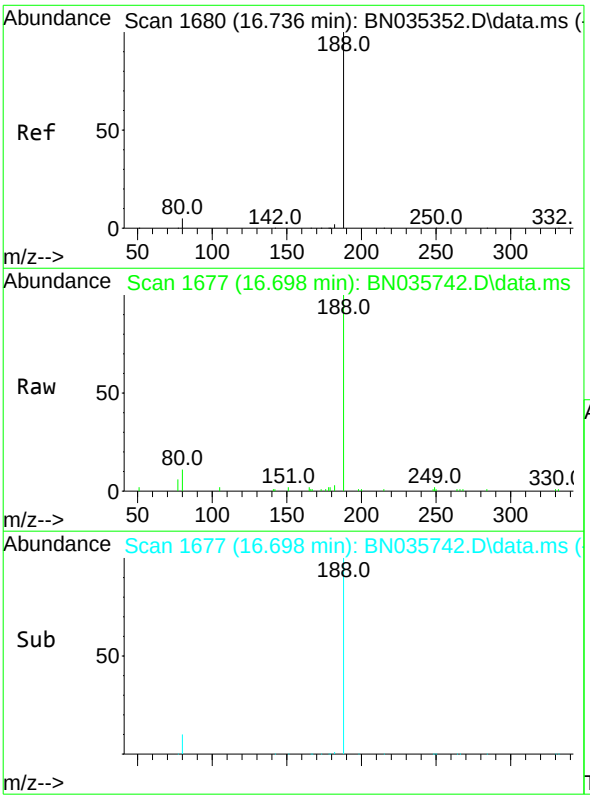
Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.4
170	24.6	19.8	29.8

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

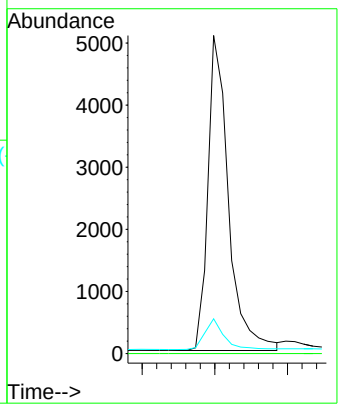


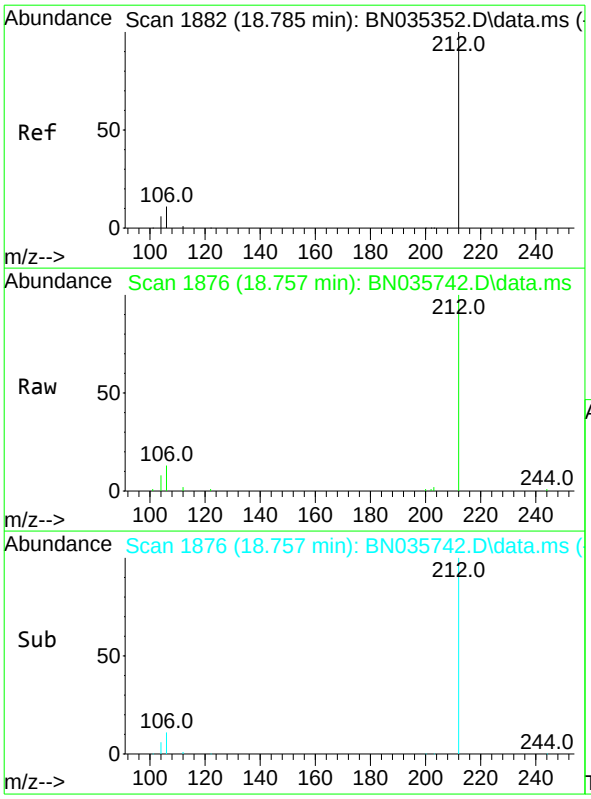


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:188 Resp: 9978

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	4.6	6.8#





#27
Fluoranthene-d10
Concen: 0.329 ng
RT: 18.757 min Scan# 18
Delta R.T. -0.005 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

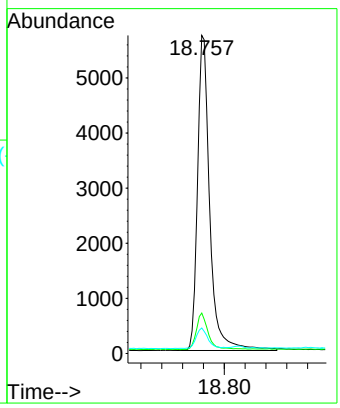
Tgt Ion:212 Resp: 9298

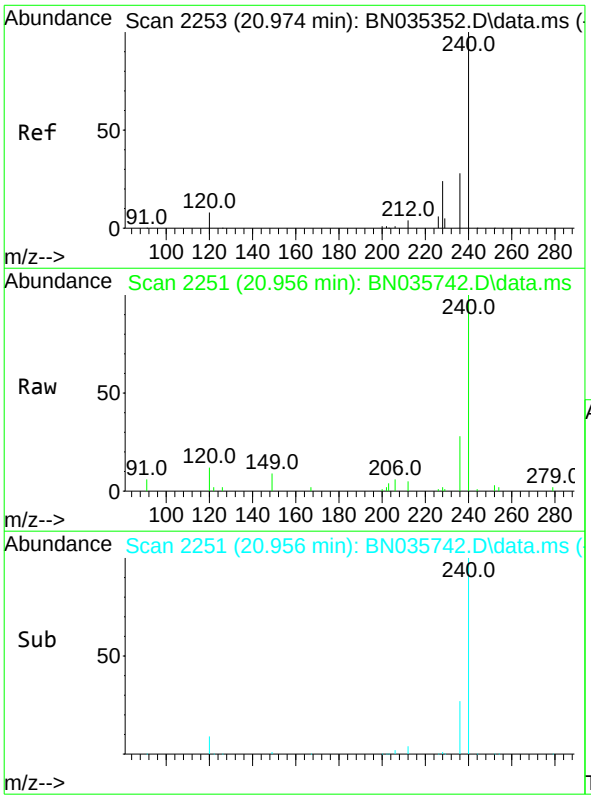
Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

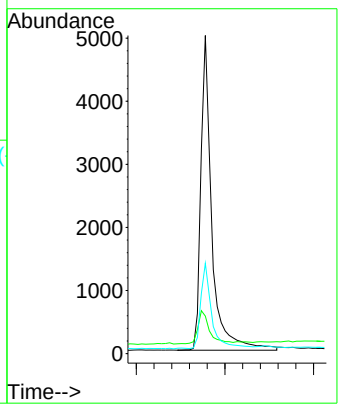


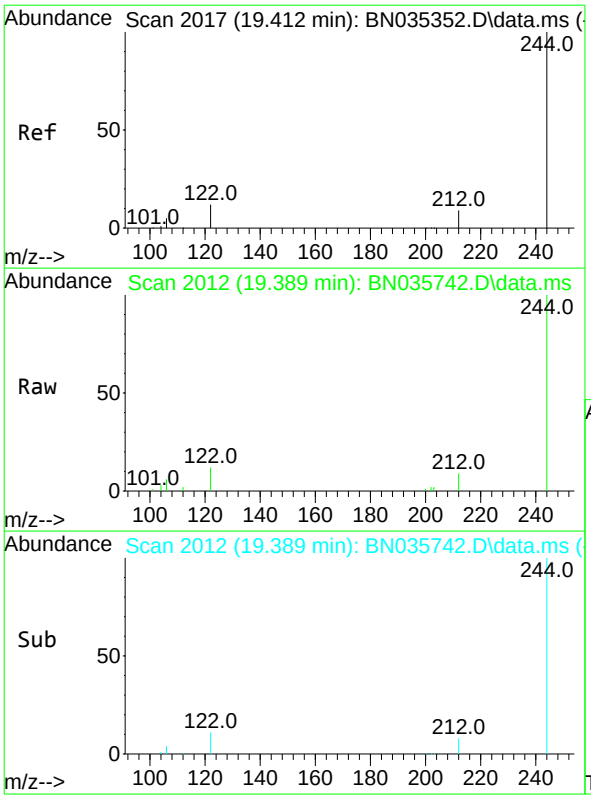


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:240 Resp: 8603

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.4	22.9	34.3





#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.389 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

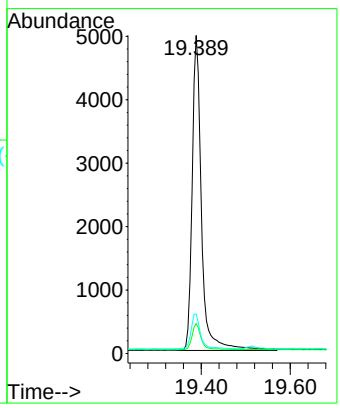
Tgt Ion:244 Resp: 7270

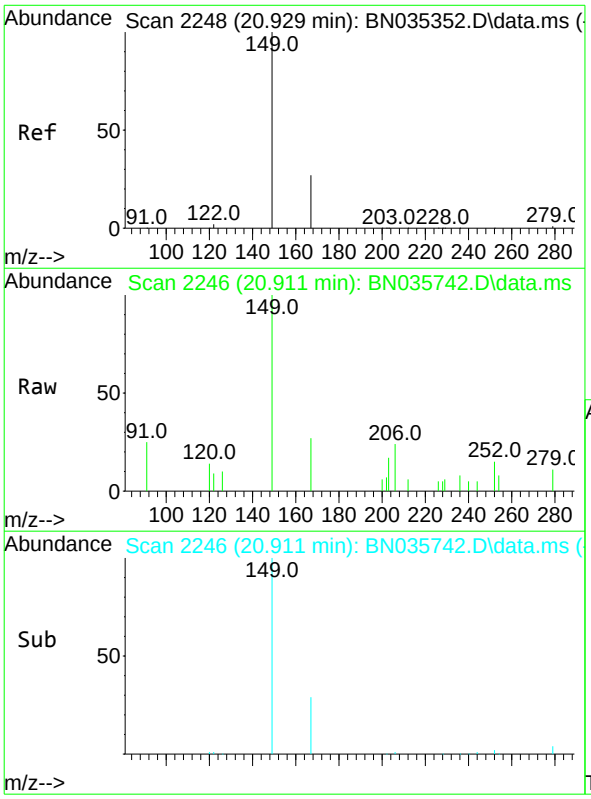
Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	12.4	10.3	15.5

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

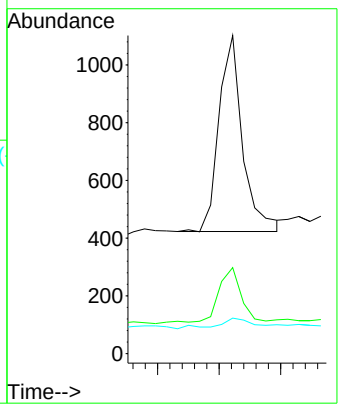


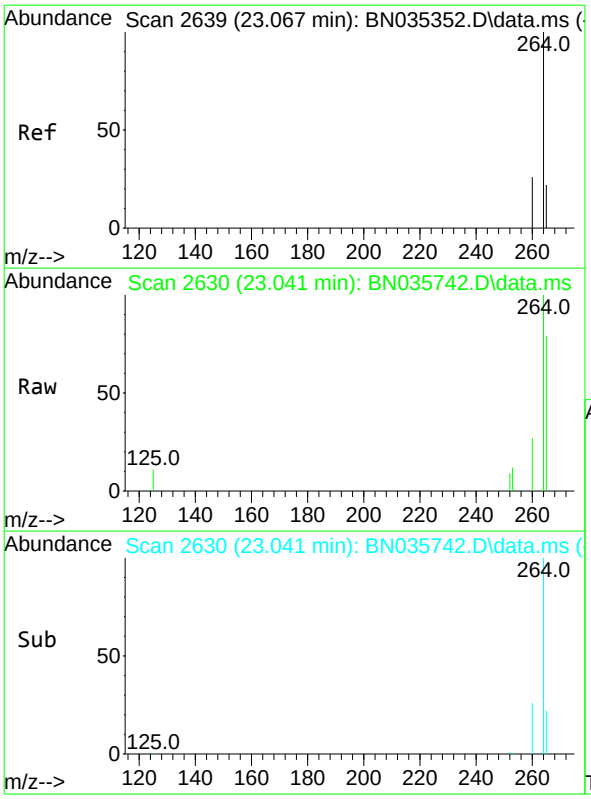


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.076 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:149 Resp: 906

Ion	Ratio	Lower	Upper
149	100		
167	25.8	22.2	33.4
279	7.8	2.7	4.1#

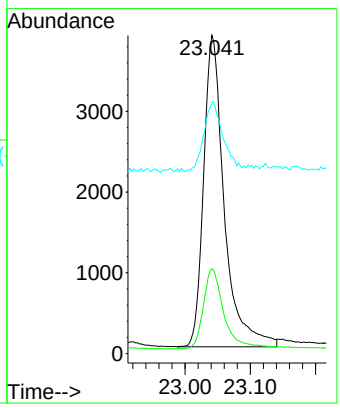




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.041 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:264 Resp: 8488

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.2
265	78.9	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Raw Data: **BN035791.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-7-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035791.D	1	12/16/24 11:30	12/23/24 19:15	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.67	*	58 - 132		167%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3490	7.264				
1146-65-2	Naphthalene-d8	8410	10.009				
15067-26-2	Acenaphthene-d10	4920	13.924				
1517-22-2	Phenanthrene-d10	9150	16.698				
1719-03-5	Chrysene-d12	6810	20.947				
1520-96-3	Perylene-d12	6990	23.032				

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

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

Sample Results: **BN035791.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035791.D
Acq On : 23 Dec 2024 19:15
Operator : RC/JU
Sample : P5281-02
Misc :
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 24 00:13:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3489	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8414	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4915	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6808	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6994	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	1078	0.123	ng	0.00
5) Phenol-d6	6.484	99	673	0.064	ng	0.00
8) Nitrobenzene-d5	8.408	82	2243m	0.436	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4824	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	702	0.201	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	7403	0.398	ng	-0.01
27) Fluoranthene-d10	18.752	212	12187	0.470	ng	0.00
31) Terphenyl-d14	19.379	244	8971	0.668	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.902	149	703	0.075	ng	# 96

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

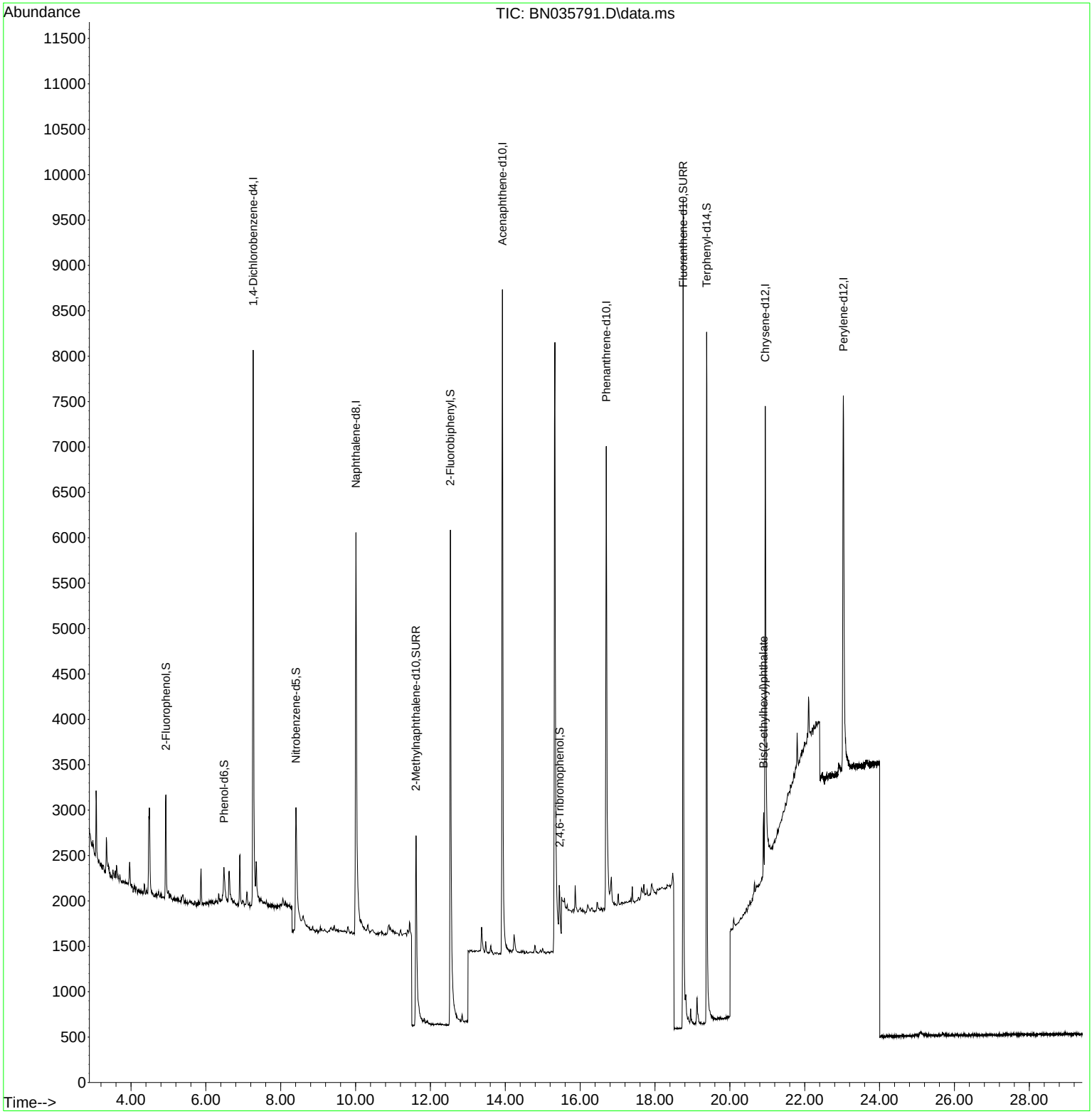
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035791.D
Acq On : 23 Dec 2024 19:15
Operator : RC/JU
Sample : P5281-02
Misc :
ALS Vial : 73 Sample Multiplier: 1

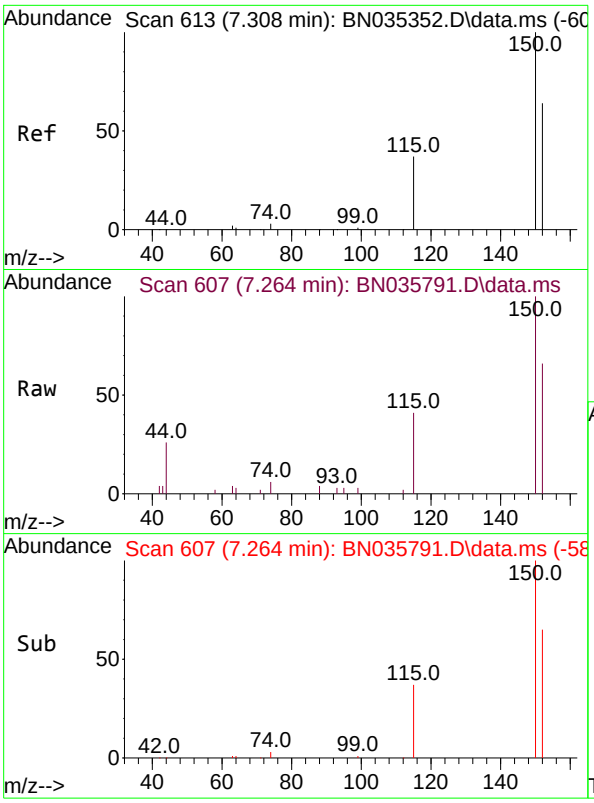
Quant Time: Dec 24 00:13:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

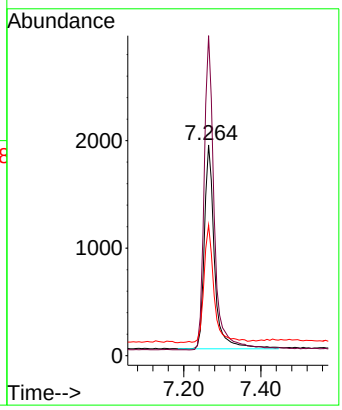




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:152 Resp: 348

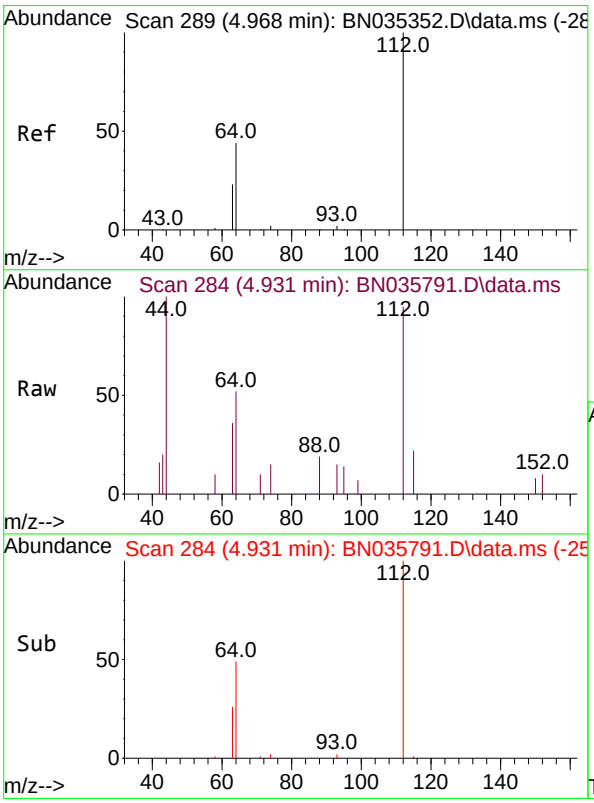
Ion	Ratio	Lower	Upper
152	100		
150	151.8	124.0	186.0
115	61.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

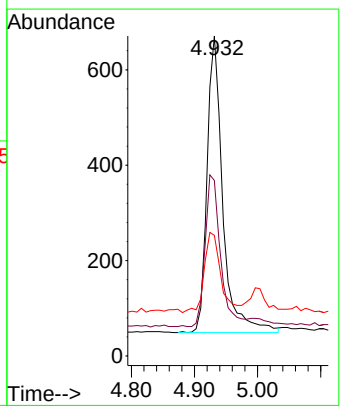
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

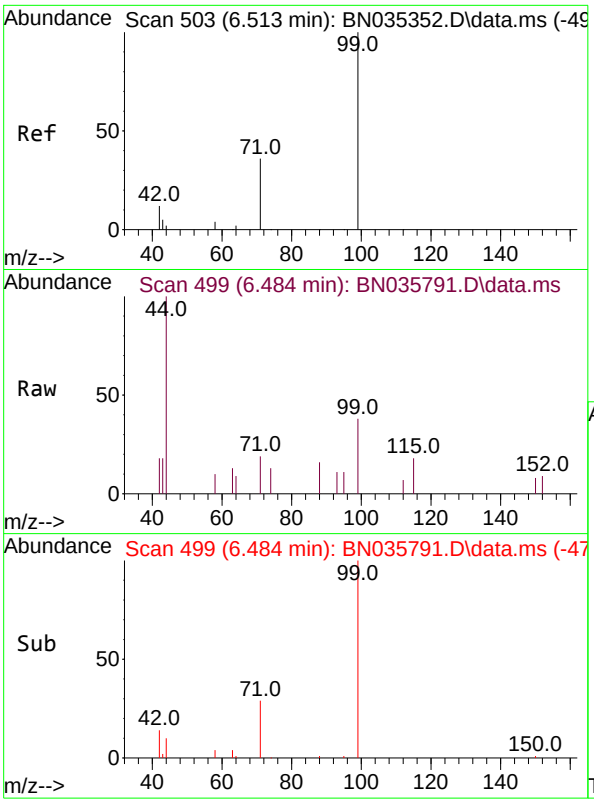


#4
2-Fluorophenol
Concen: 0.123 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:112 Resp: 1078

Ion	Ratio	Lower	Upper
112	100		
64	50.1	39.8	59.8
63	27.8	21.0	31.6

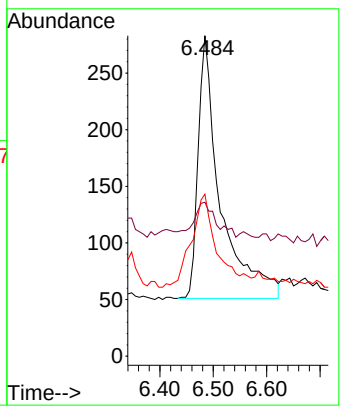




#5
Phenol-d6
Concen: 0.064 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion: 99 Resp: 67

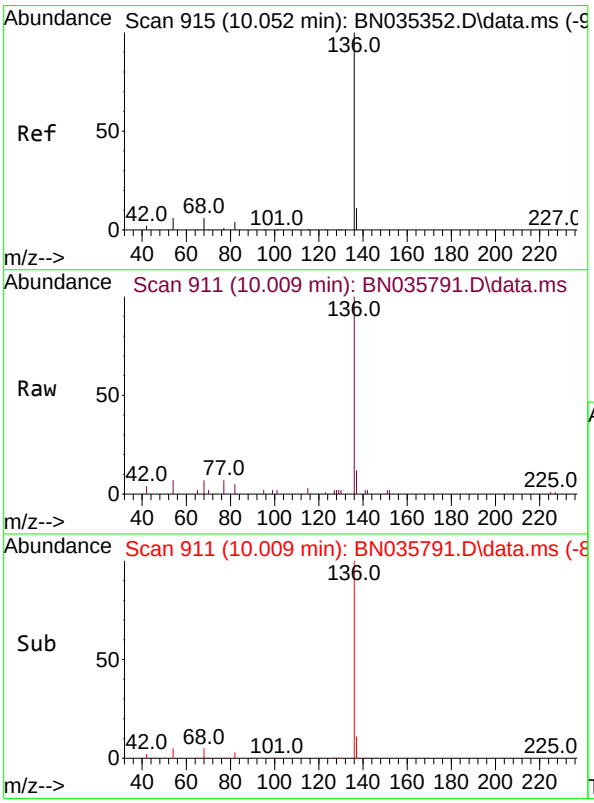
Ion	Ratio	Lower	Upper
99	100		
42	13.2	11.4	17.2
71	41.0	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

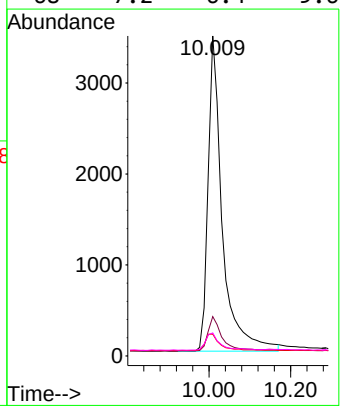
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

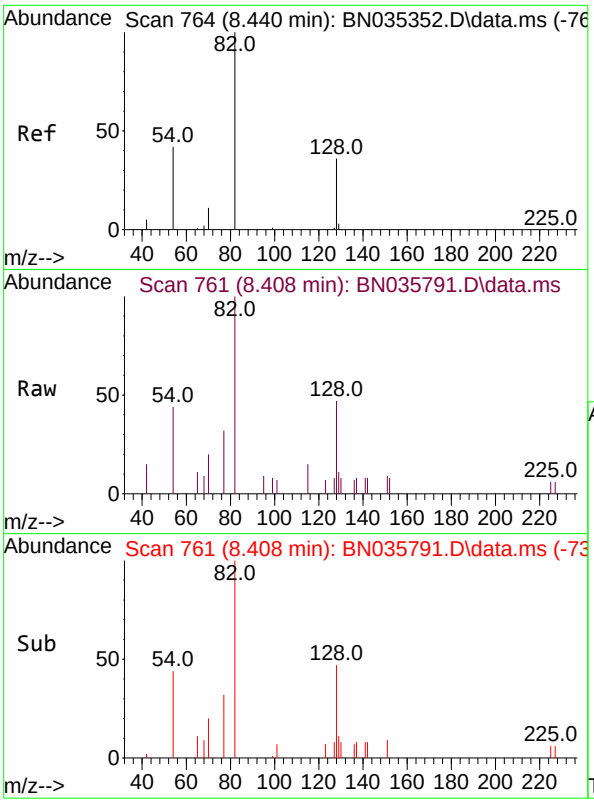


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:136 Resp: 8414

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	6.8	6.1	9.1
68	7.2	6.4	9.6

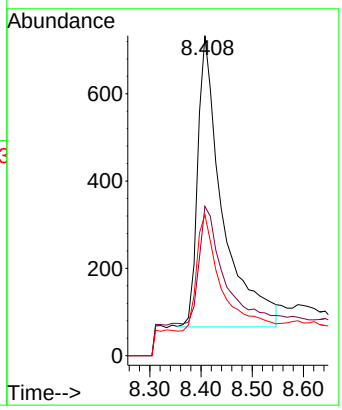




#8
Nitrobenzene-d5
Concen: 0.436 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion: 82 Resp: 224

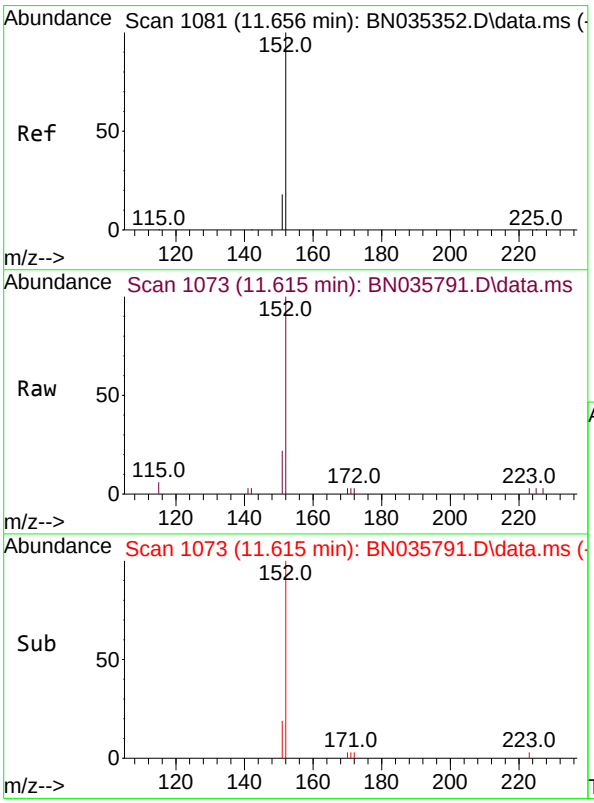
Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	44.1	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

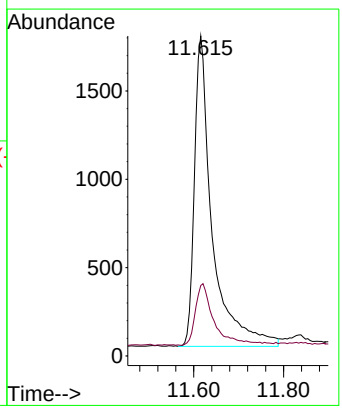
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

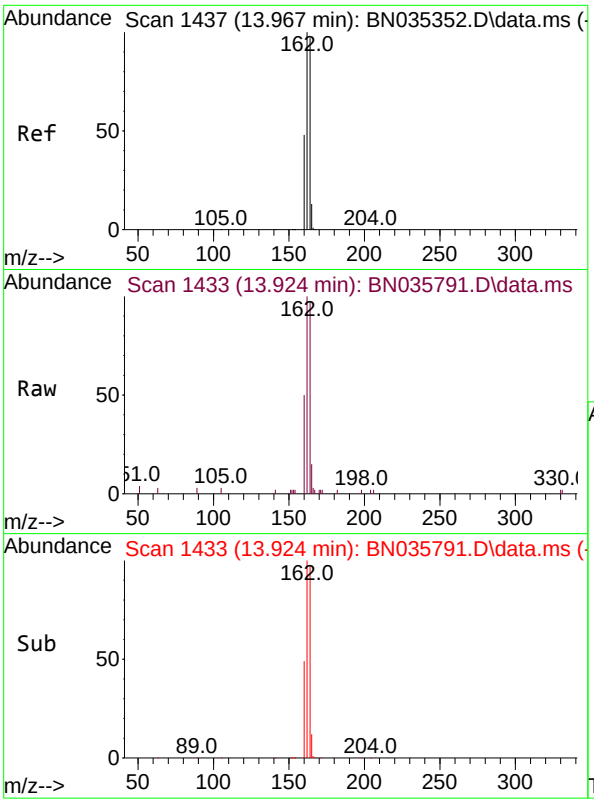


#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:152 Resp: 4824

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

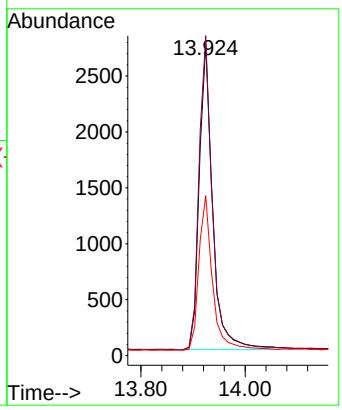




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:164 Resp: 491

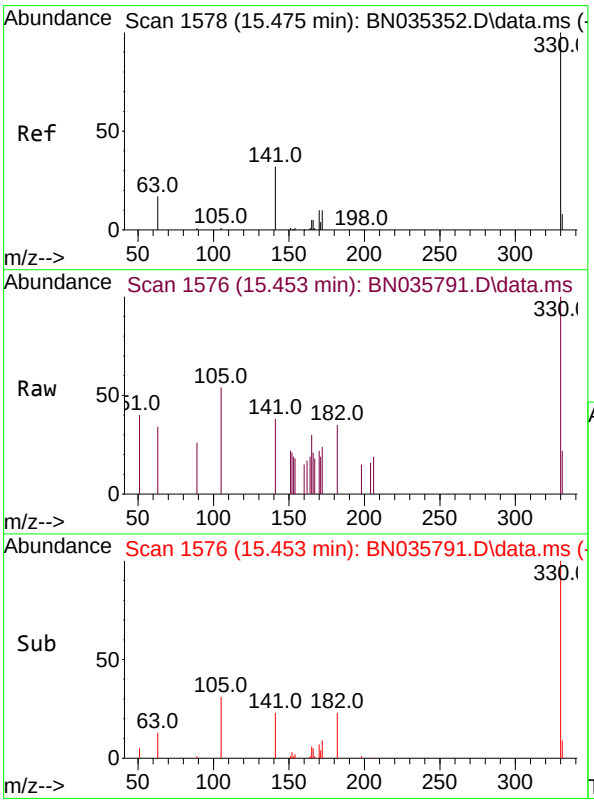
Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.2	123.2
160	51.3	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

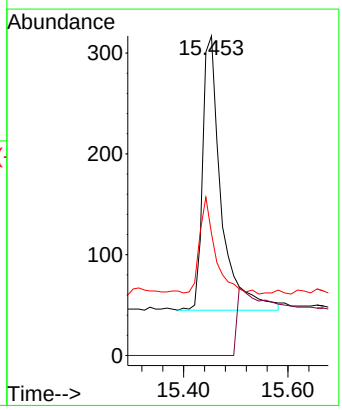
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

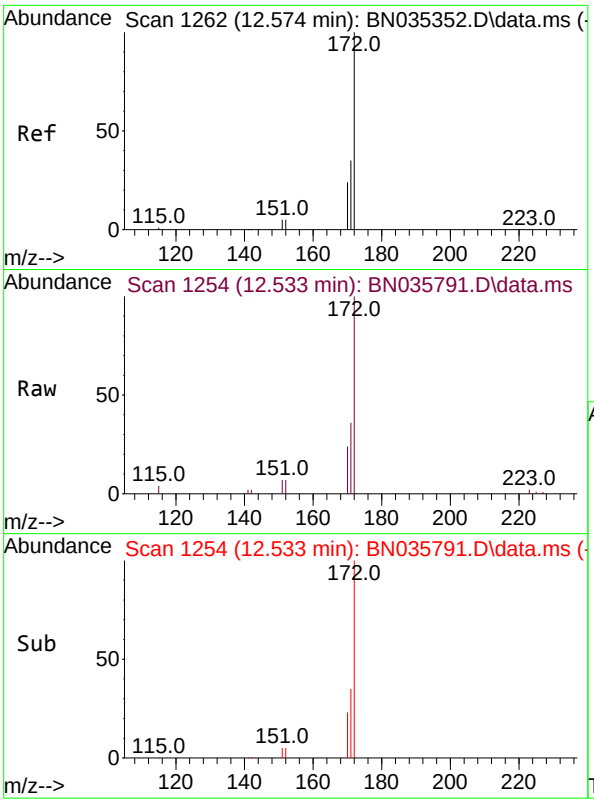


#14
2,4,6-Tribromophenol
Concen: 0.201 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:330 Resp: 702

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.1	26.6	40.0

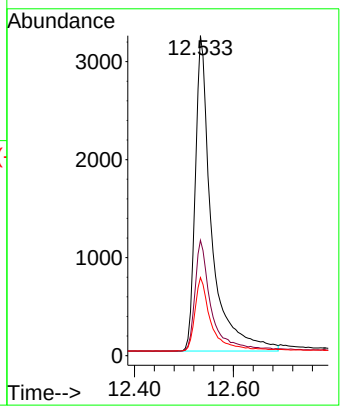




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:172 Resp: 740

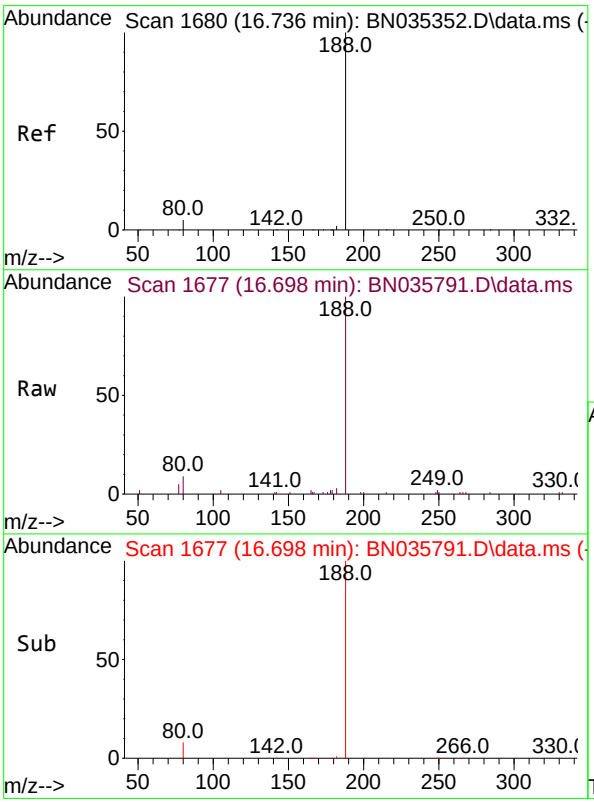
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

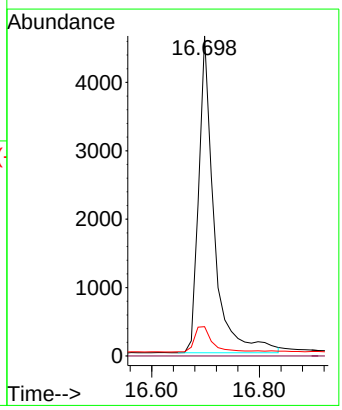
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

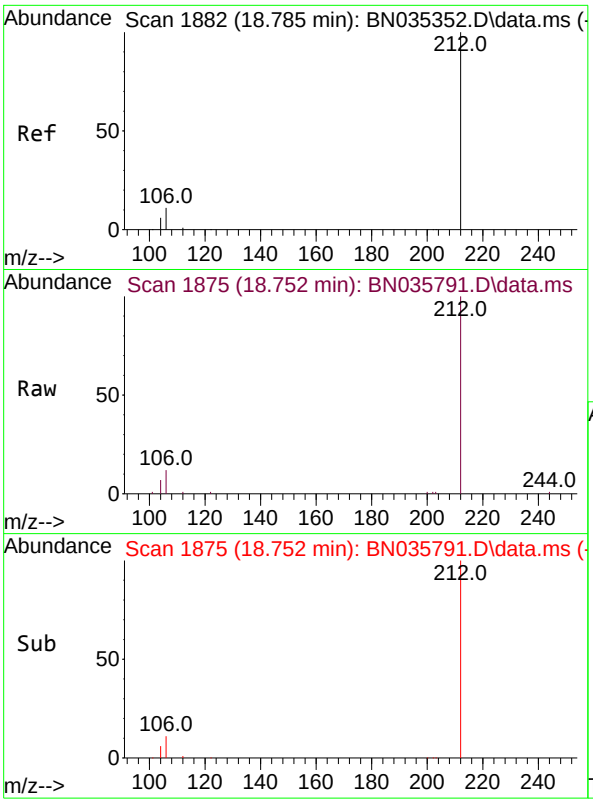


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:188 Resp: 9153

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#

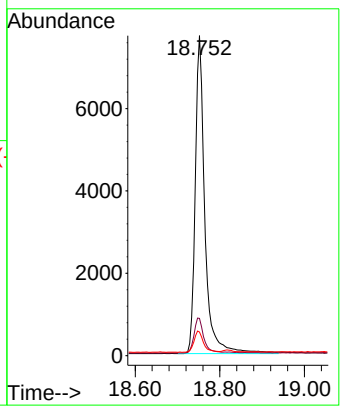




#27
Fluoranthene-d10
Concen: 0.470 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:212 Resp: 1218

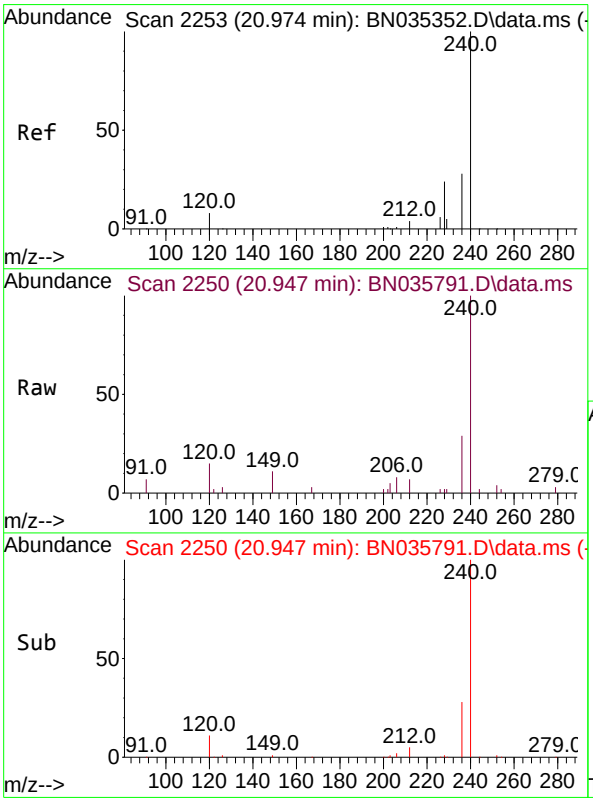
Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

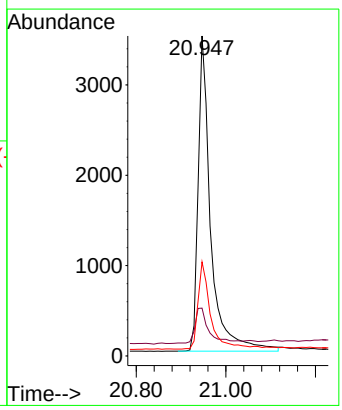
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

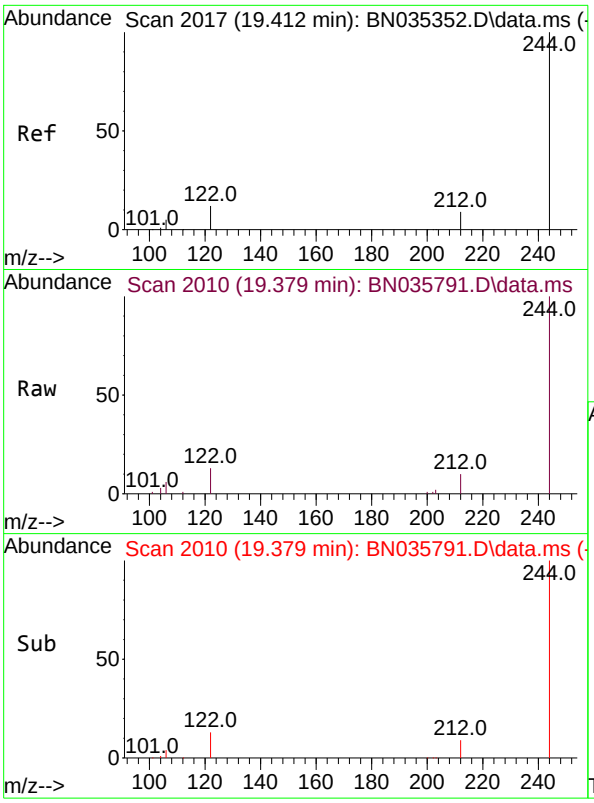


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:240 Resp: 6808

Ion	Ratio	Lower	Upper
240	100		
120	15.0	7.9	11.9#
236	29.4	22.9	34.3

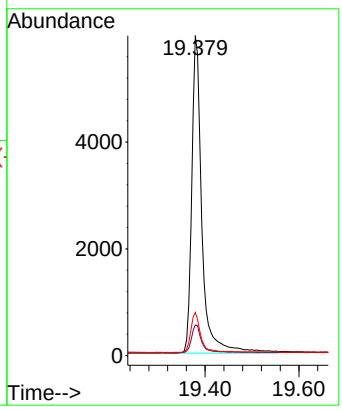




#31
Terphenyl-d14
Concen: 0.668 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:244 Resp: 897

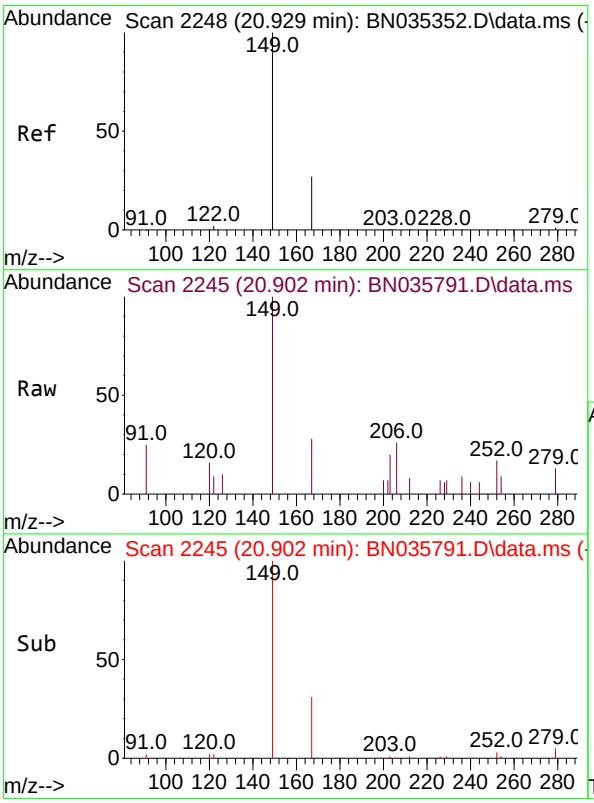
Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

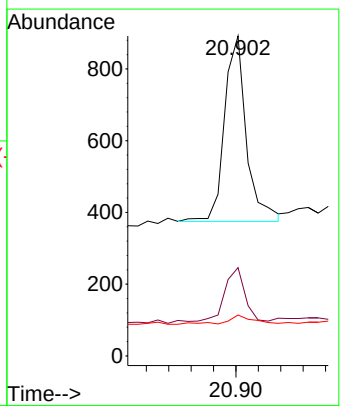
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

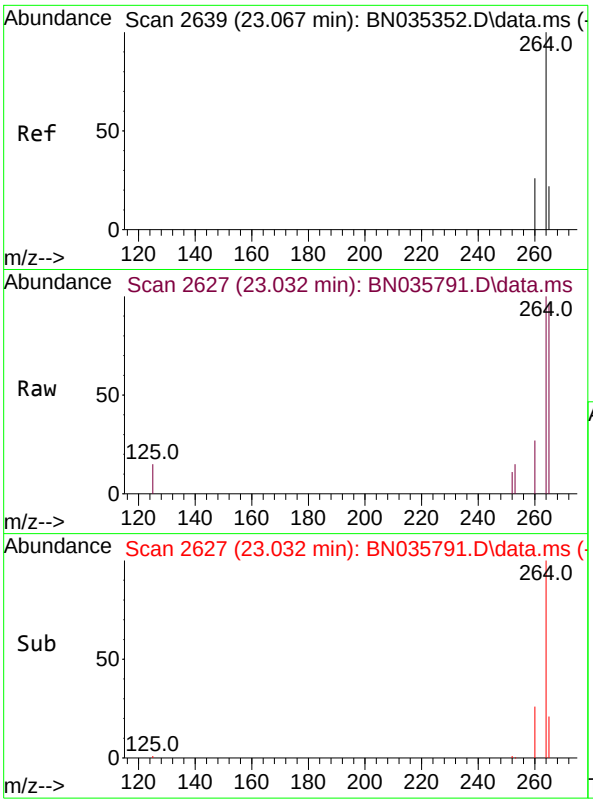


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.075 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:149 Resp: 703

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.4
279	6.3	2.7	4.1#

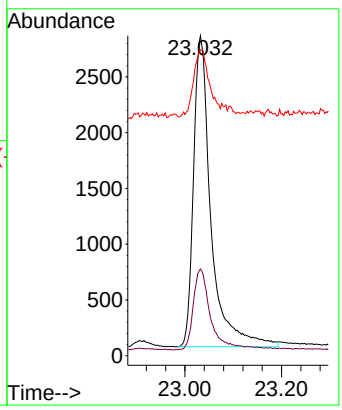




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:264 Resp: 699

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	95.6	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Raw Data: **BN035796.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-8-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035796.D	1	12/16/24 11:30	12/23/24 23:27	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 - 150		124%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2750	7.264				
1146-65-2	Naphthalene-d8	6300	10.009				
15067-26-2	Acenaphthene-d10	3970	13.925				
1517-22-2	Phenanthrene-d10	7890	16.698				
1719-03-5	Chrysene-d12	6720	20.947				
1520-96-3	Perylene-d12	6520	23.032				

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

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

Sample Results: **BN035796.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035796.D
Acq On : 23 Dec 2024 23:27
Operator : RC/JU
Sample : P5281-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	2754	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6301	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	3973	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	7887	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6724	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6522	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	960	0.139	ng	0.00
5) Phenol-d6	6.484	99	532	0.064	ng	0.00
8) Nitrobenzene-d5	8.408	82	1720m	0.447	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3684	0.374	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	614	0.218	ng	0.00
15) 2-Fluorobiphenyl	12.534	172	5868	0.391	ng	-0.01
27) Fluoranthene-d10	18.752	212	11118	0.497	ng	0.00
31) Terphenyl-d14	19.379	244	8462	0.638	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.902	149	1064	0.115	ng	95

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

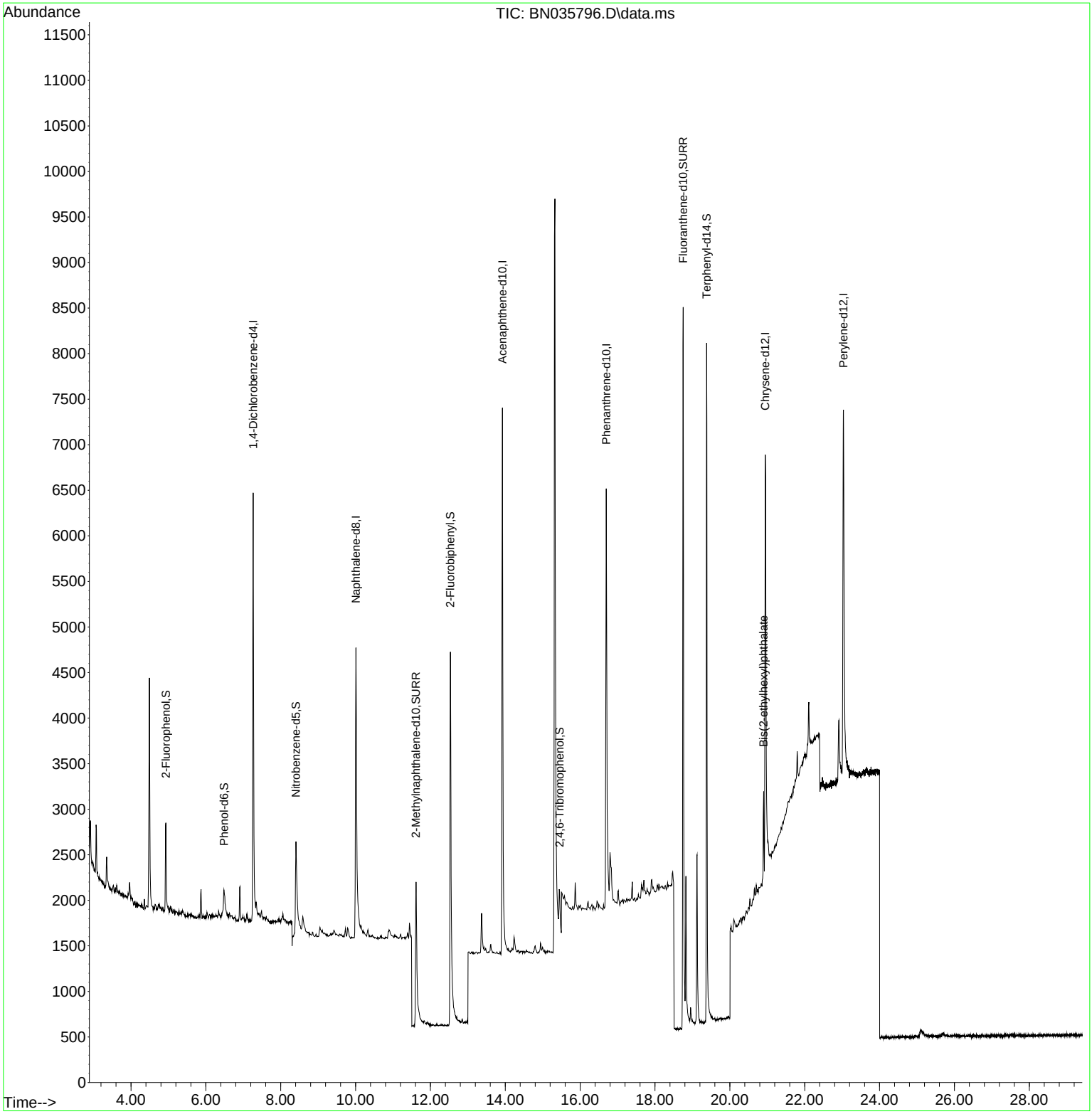
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035796.D
Acq On : 23 Dec 2024 23:27
Operator : RC/JU
Sample : P5281-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

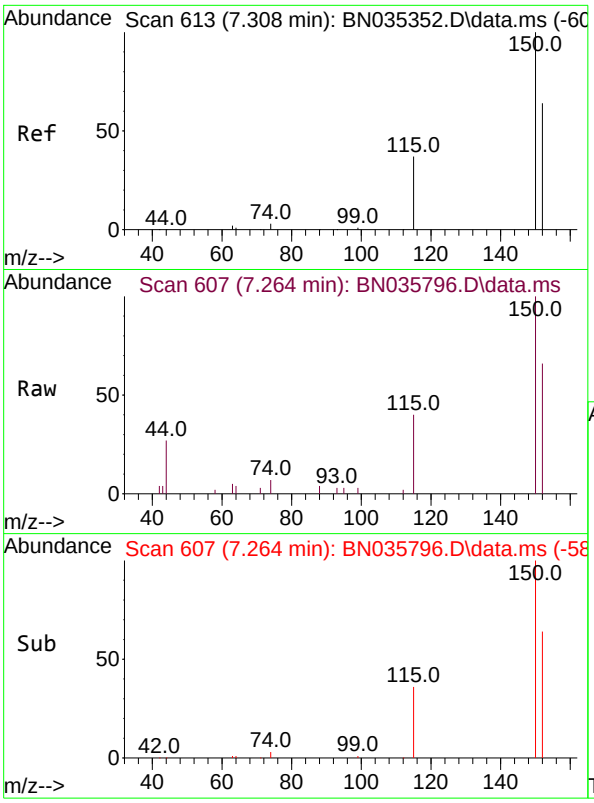
Quant Time: Dec 24 00:13:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

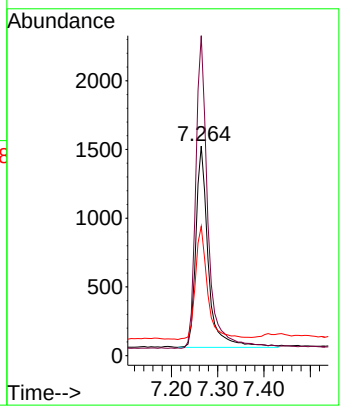




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:152 Resp: 275

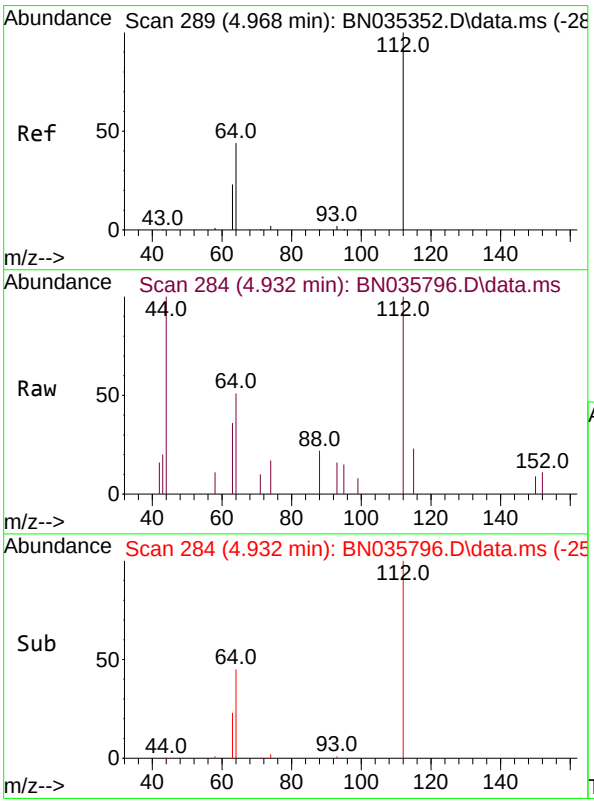
Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.0	186.0
115	61.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

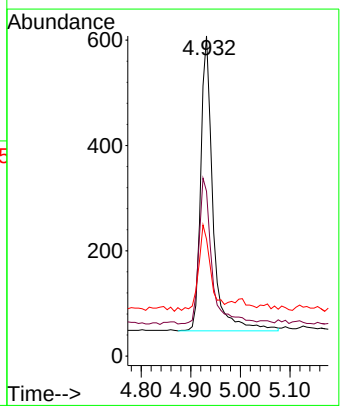
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

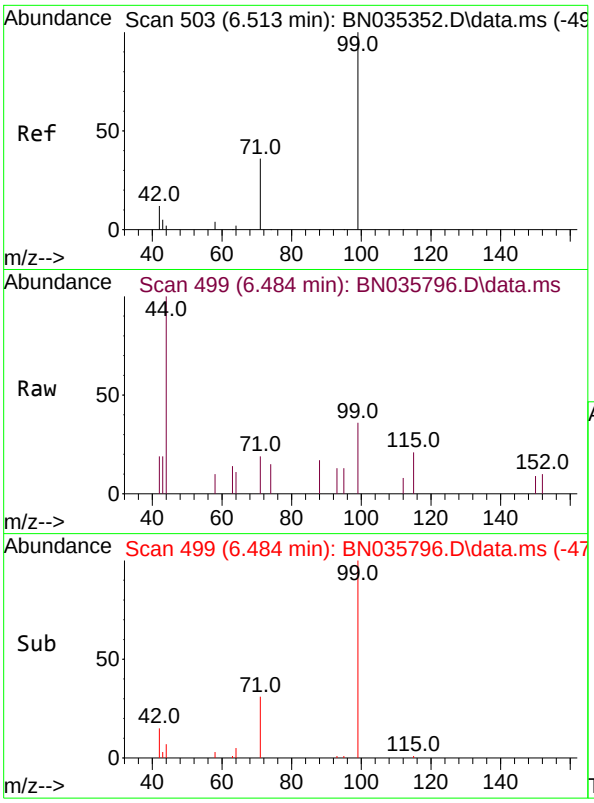


#4
2-Fluorophenol
Concen: 0.139 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:112 Resp: 960

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	29.1	21.0	31.6

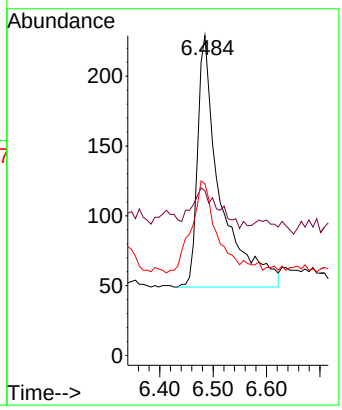




#5
Phenol-d6
Concen: 0.064 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion: 99 Resp: 53

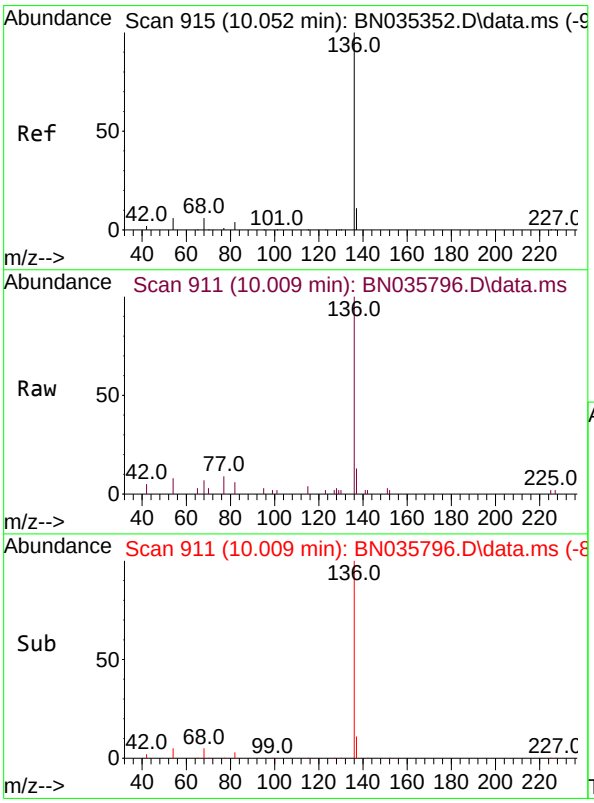
Ion	Ratio	Lower	Upper
99	100		
42	18.4	11.4	17.2
71	43.4	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

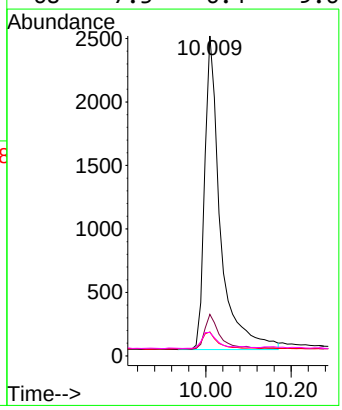
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

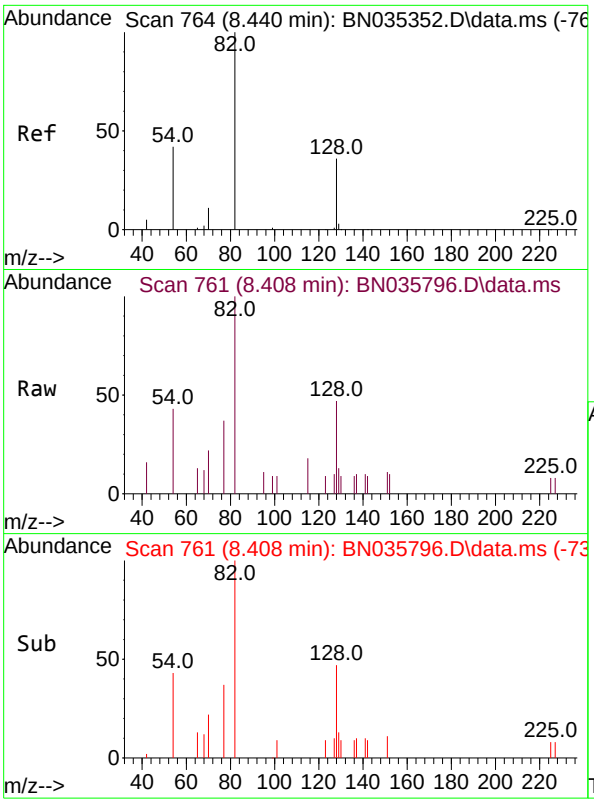


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:136 Resp: 6301

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.5	6.1	9.1
68	7.3	6.4	9.6

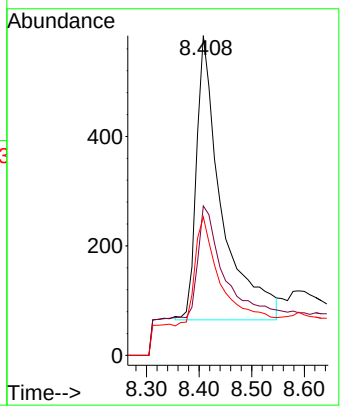




#8
Nitrobenzene-d5
Concen: 0.447 ng m
RT: 8.408 min Scan# 7(
Delta R.T. -0.000 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion: 82 Resp: 172(

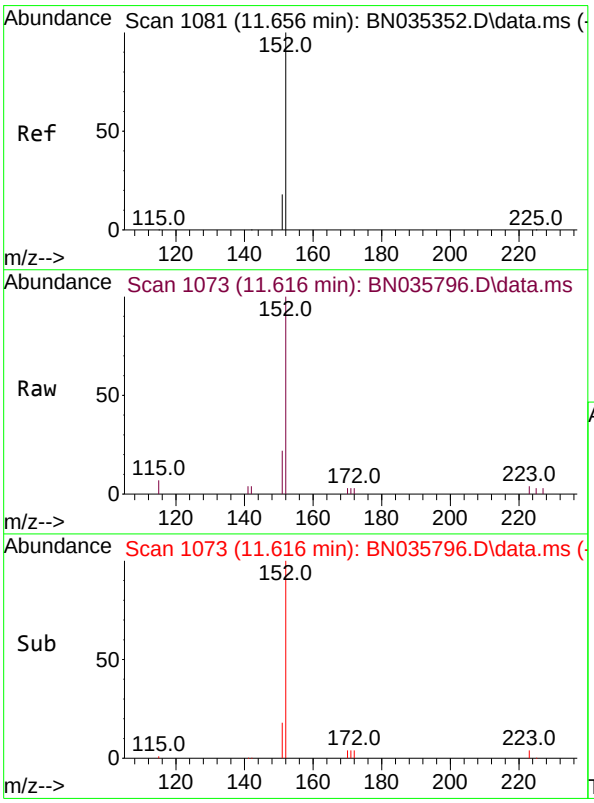
Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	43.3	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

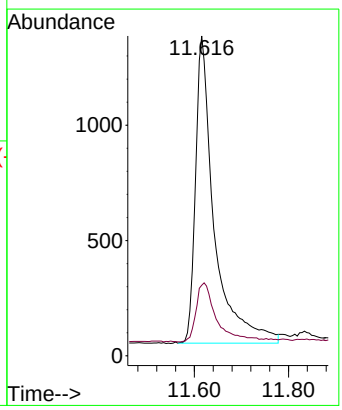
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

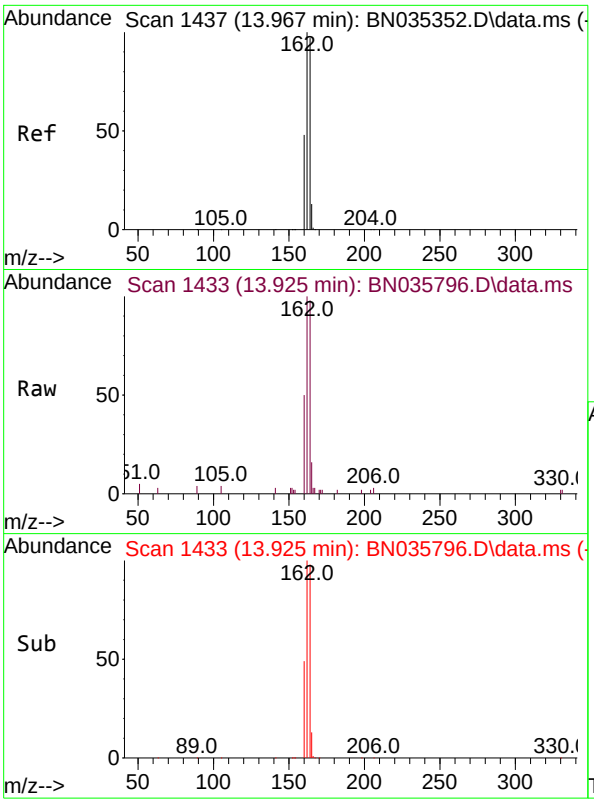


#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:152 Resp: 3684

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

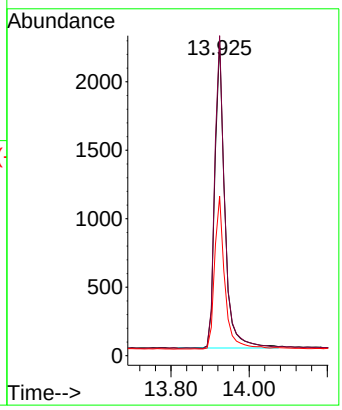
Tgt Ion:164 Resp: 397

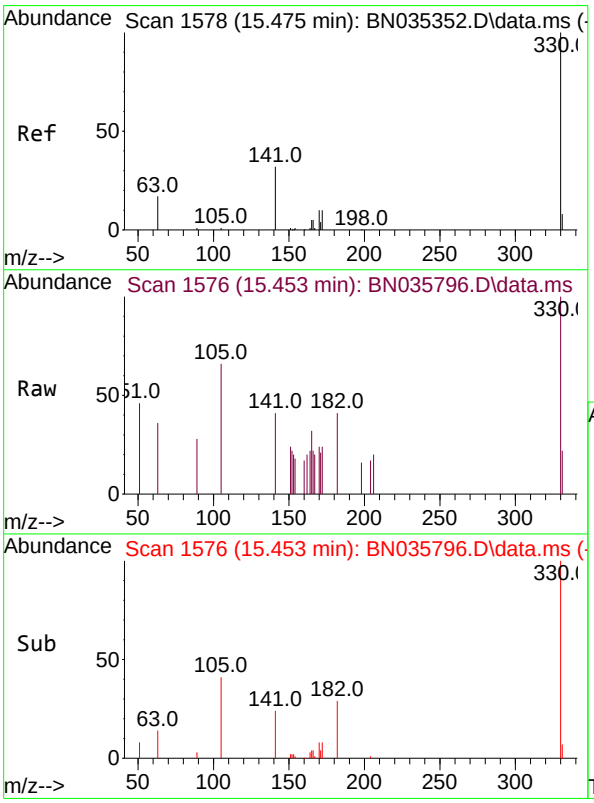
Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	50.7	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

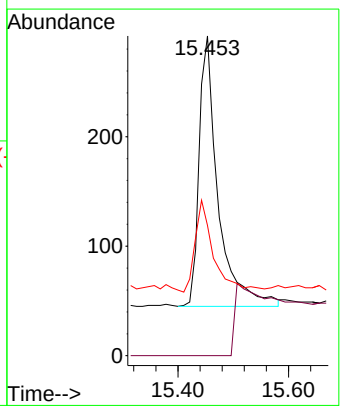


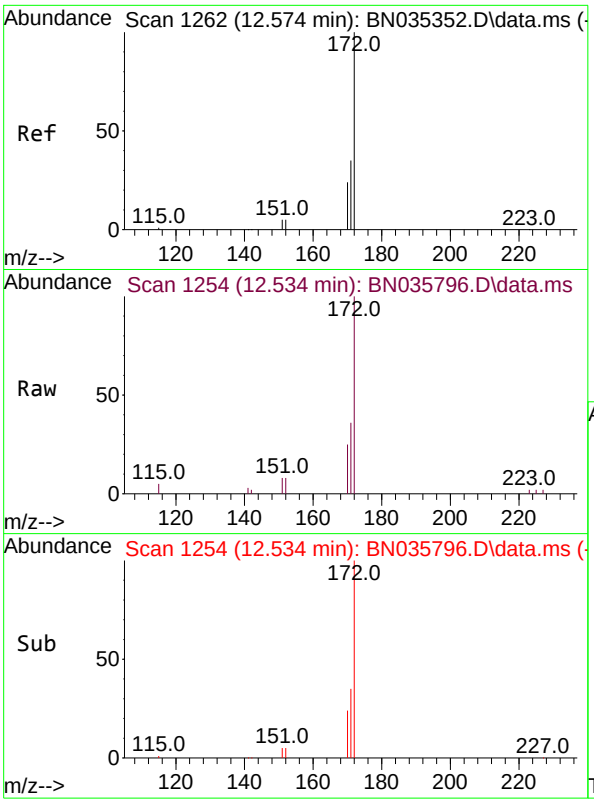


#14
2,4,6-Tribromophenol
Concen: 0.218 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:330 Resp: 614

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0

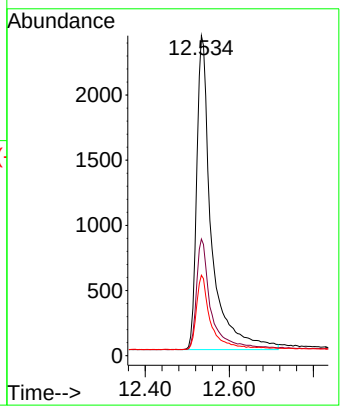




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:172 Resp: 586

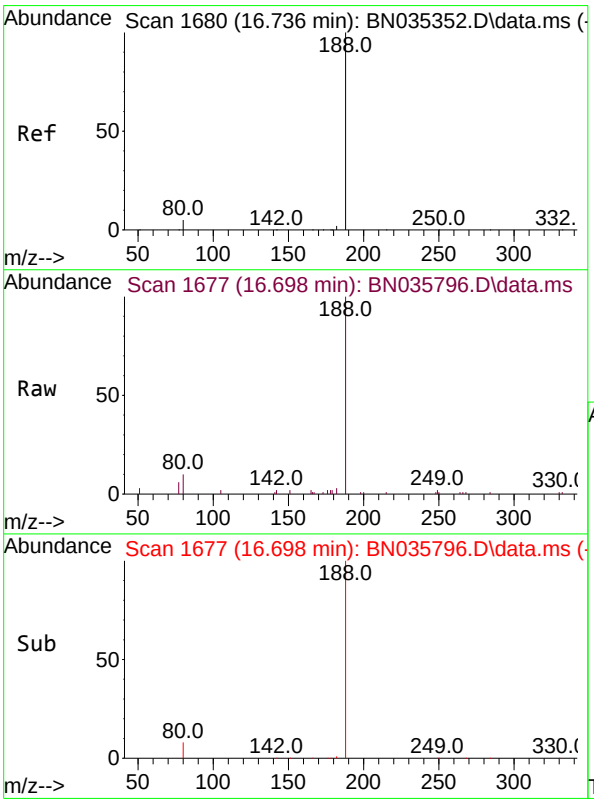
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	25.2	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

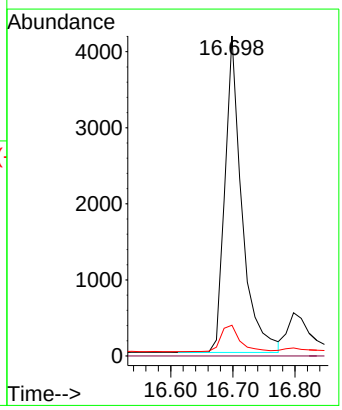
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

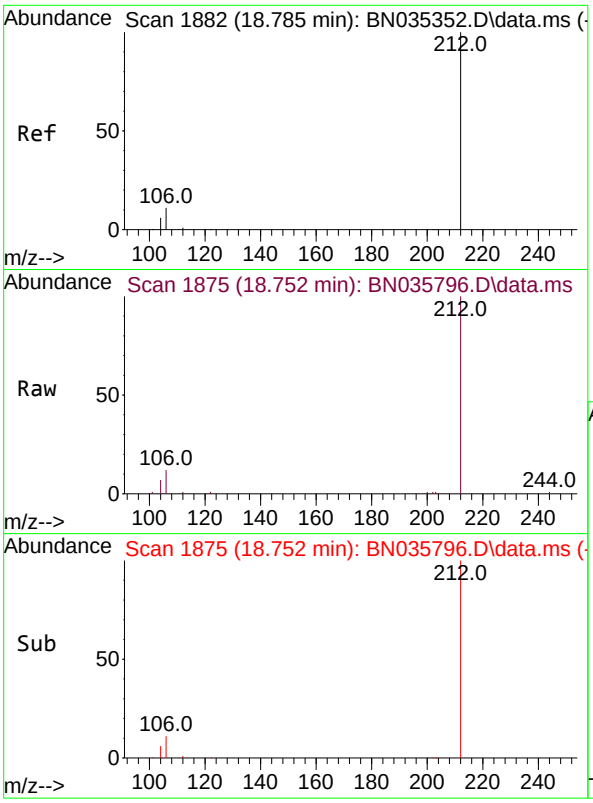


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:188 Resp: 7887

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	4.6	6.8#

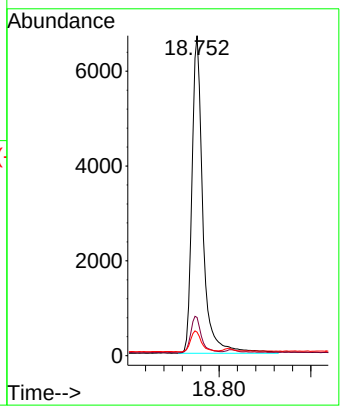




#27
Fluoranthene-d10
Concen: 0.497 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:212 Resp: 1111

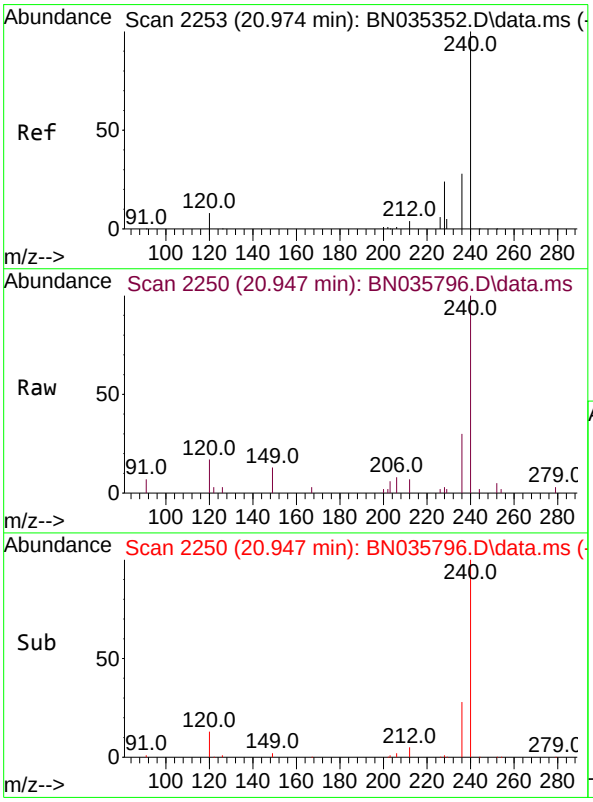
Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

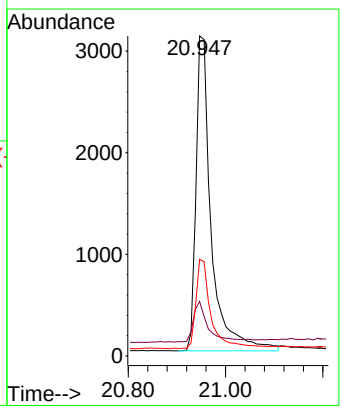
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

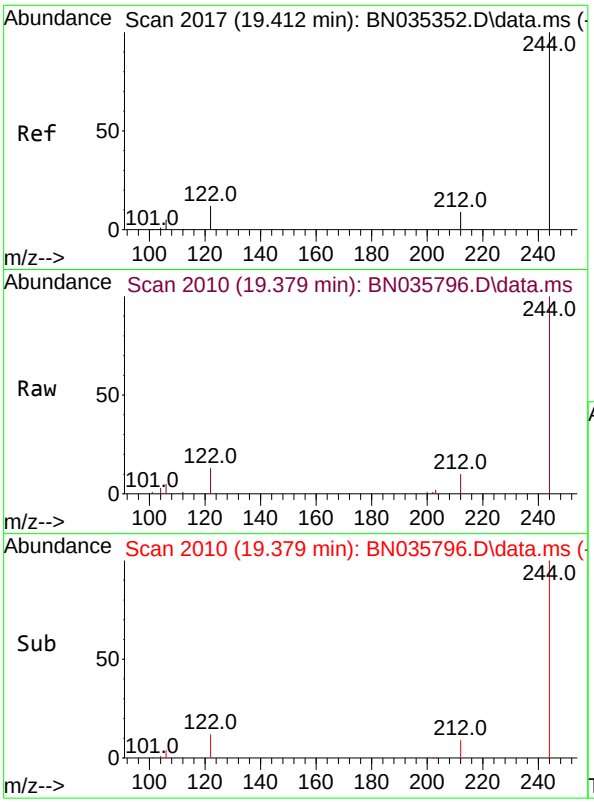


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:240 Resp: 6724

Ion	Ratio	Lower	Upper
240	100		
120	17.0	7.9	11.9#
236	30.2	22.9	34.3

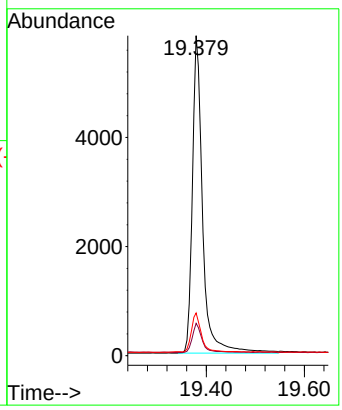




#31
Terphenyl-d14
Concen: 0.638 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:244 Resp: 846

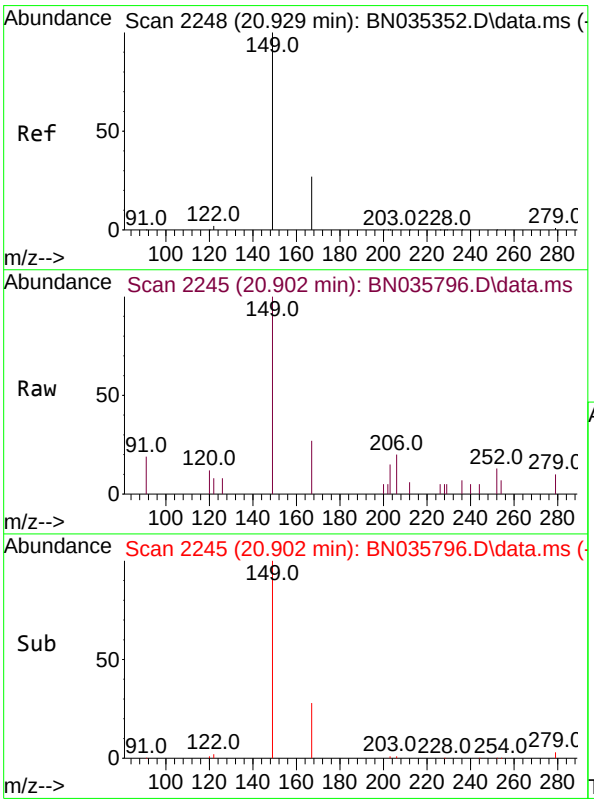
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

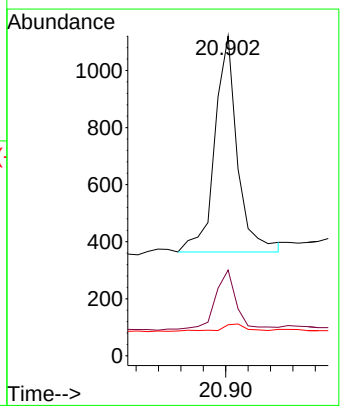
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

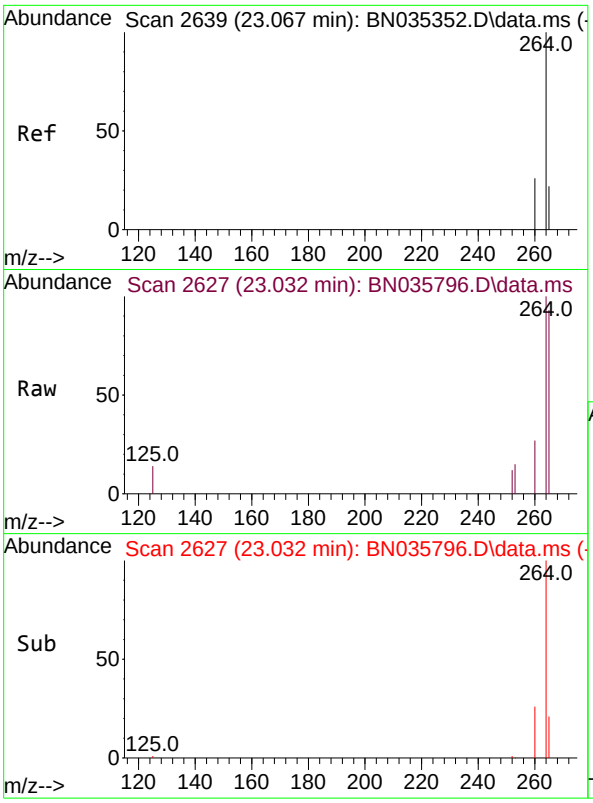


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.115 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:149 Resp: 1064

Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.2	33.4
279	3.9	2.7	4.1

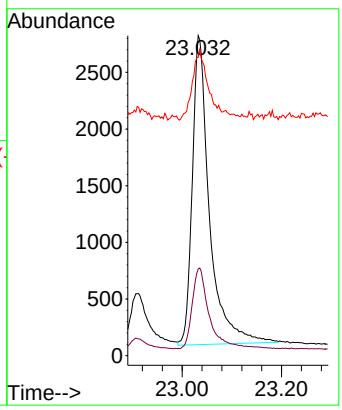




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:264 Resp: 652

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	93.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Raw Data: **BN035778.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT101D2-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035778.D	1	12/16/24 11:30	12/23/24 11:32	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.80	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3150	7.264				
1146-65-2	Naphthalene-d8	7760	10.009				
15067-26-2	Acenaphthene-d10	5020	13.924				
1517-22-2	Phenanthrene-d10	9830	16.698				
1719-03-5	Chrysene-d12	7580	20.947				
1520-96-3	Perylene-d12	7490	23.032				

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

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

Sample Results: **BN035778.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035778.D
Acq On : 23 Dec 2024 11:32
Operator : RC/JU
Sample : P5281-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 23 12:01:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3150	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7756	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5021	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9829	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7584	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7486	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	928	0.118	ng	0.00
5) Phenol-d6	6.484	99	505	0.053	ng	0.00
8) Nitrobenzene-d5	8.408	82	1984m	0.419	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4519	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	614	0.172	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6952	0.366	ng	0.00
27) Fluoranthene-d10	18.752	212	11103	0.398	ng	0.00
31) Terphenyl-d14	19.379	244	8265	0.552	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	17364	5.766	ng	98
6) bis(2-Chloroethyl)ether	6.723	93	256	0.032	ng	92
34) Bis(2-ethylhexyl)phtha...	20.902	149	1077	0.103	ng	# 96

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

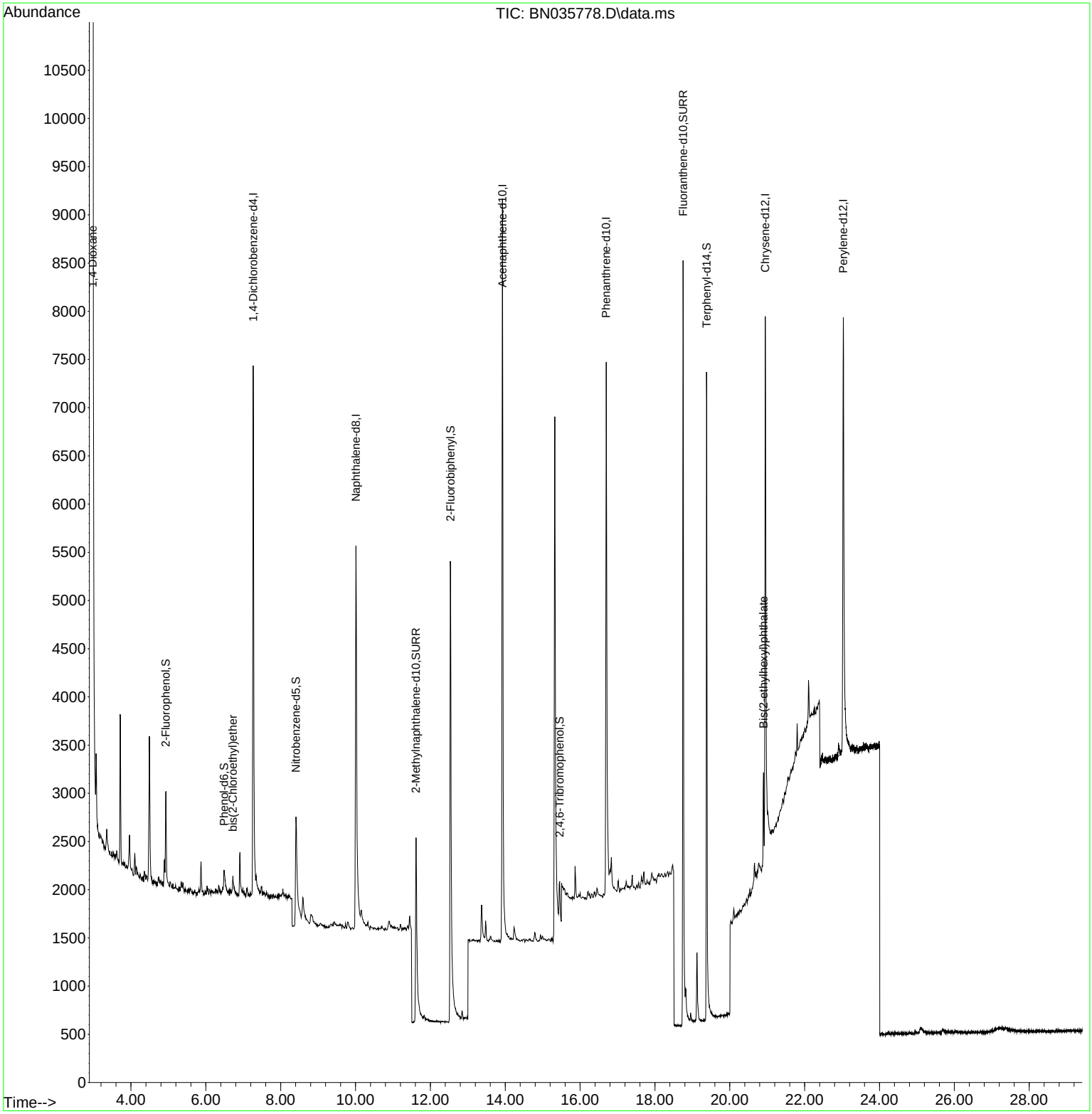
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035778.D
Acq On : 23 Dec 2024 11:32
Operator : RC/JU
Sample : P5281-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

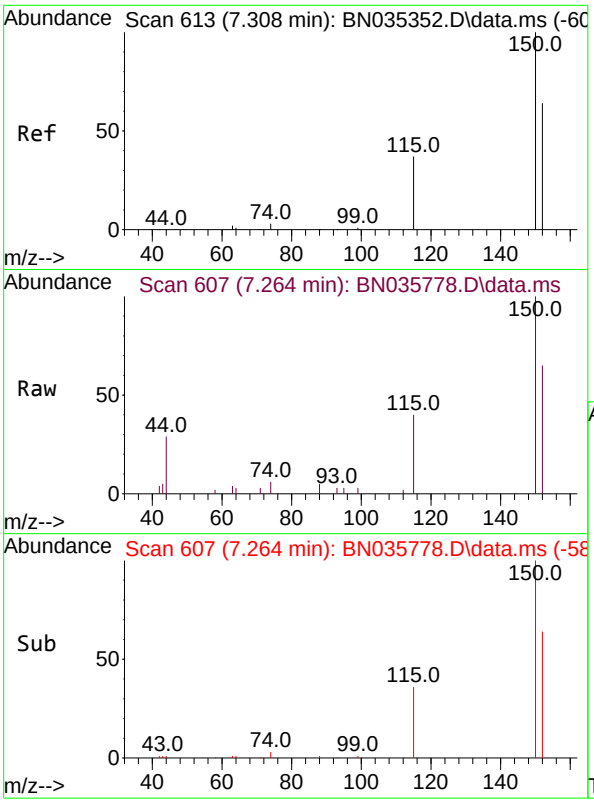
Quant Time: Dec 23 12:01:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

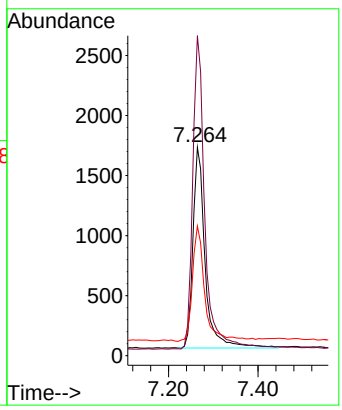




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:152 Resp: 315(

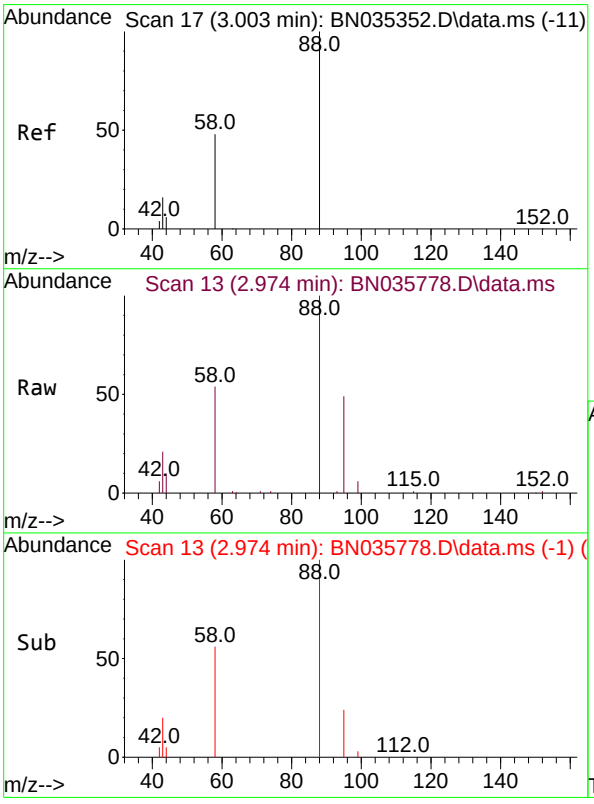
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

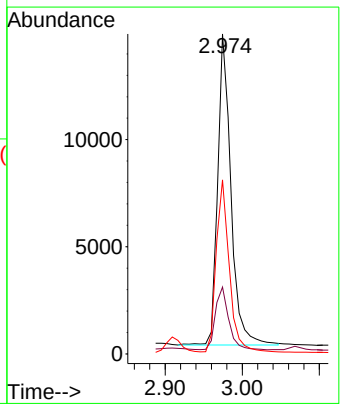
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

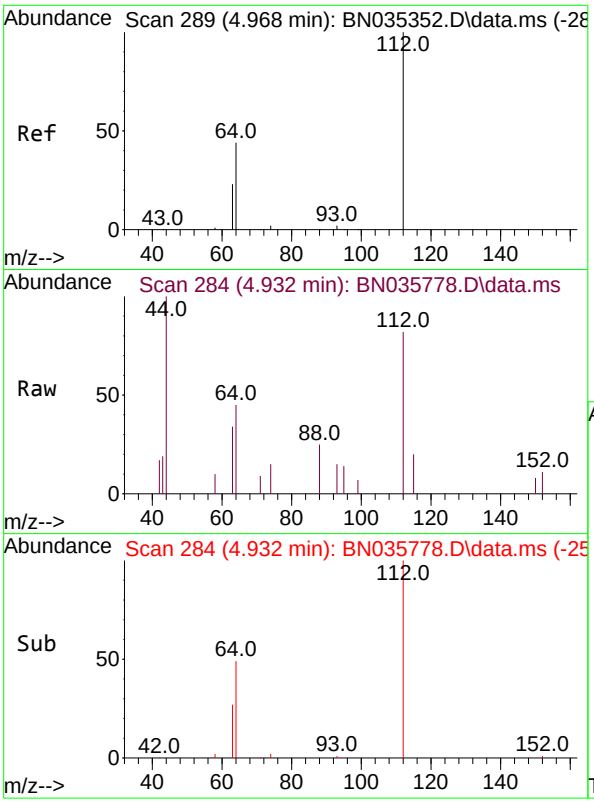


#2
1,4-Dioxane
Concen: 5.766 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion: 88 Resp: 17364

Ion	Ratio	Lower	Upper
88	100		
43	20.0	17.2	25.8
58	54.0	44.5	66.7





#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

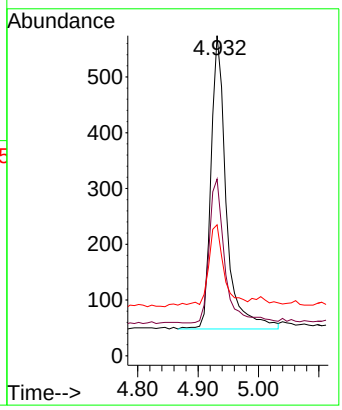
Tgt Ion:112 Resp: 92

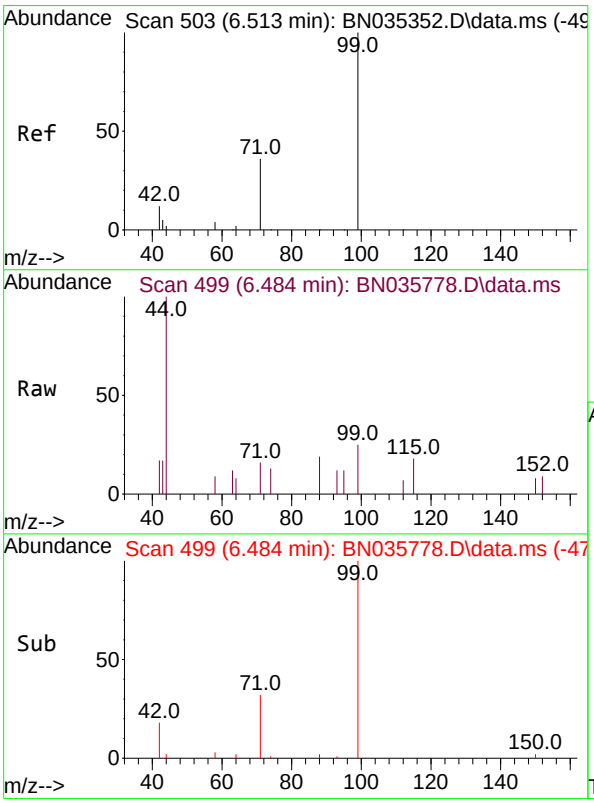
Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.8	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

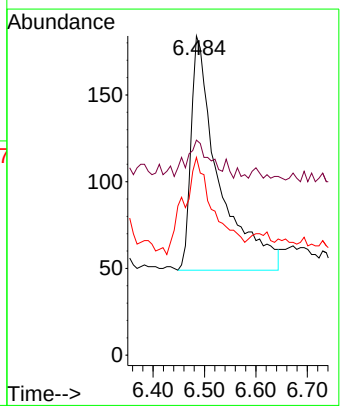


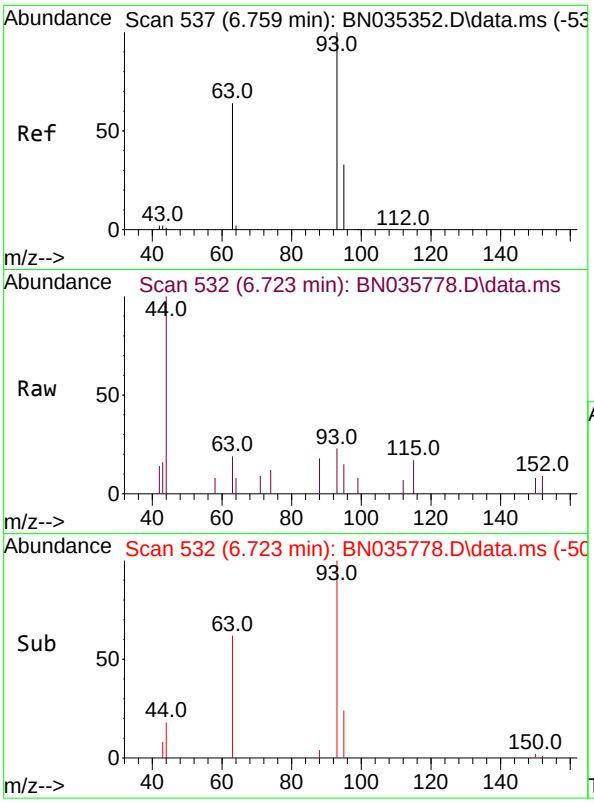


#5
Phenol-d6
Concen: 0.053 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion: 99 Resp: 505

Ion	Ratio	Lower	Upper
99	100		
42	11.7	11.4	17.2
71	45.5	29.3	43.9#

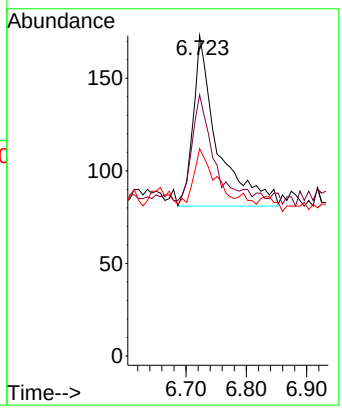




#6
bis(2-Chloroethyl)ether
Concen: 0.032 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion: 93 Resp: 25

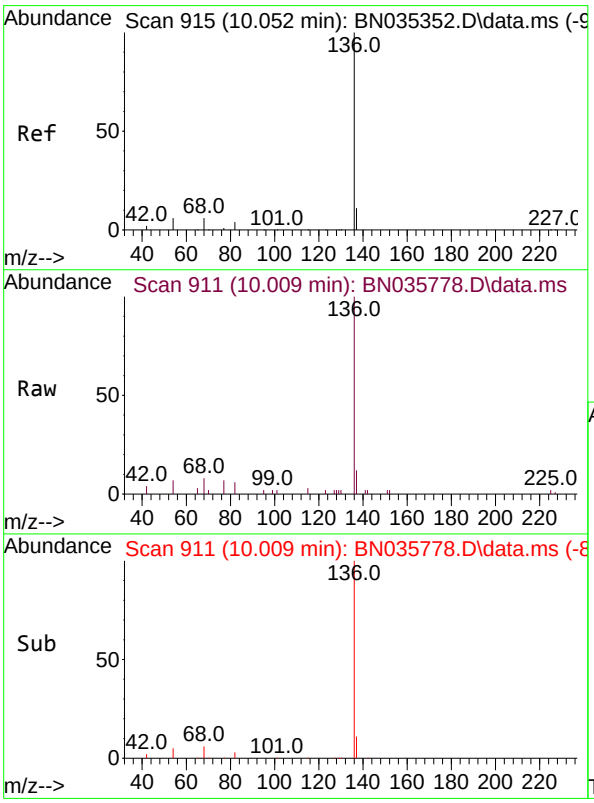
Ion	Ratio	Lower	Upper
93	100		
63	57.8	50.4	75.6
95	27.0	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

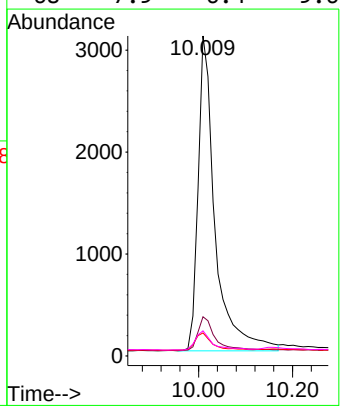
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

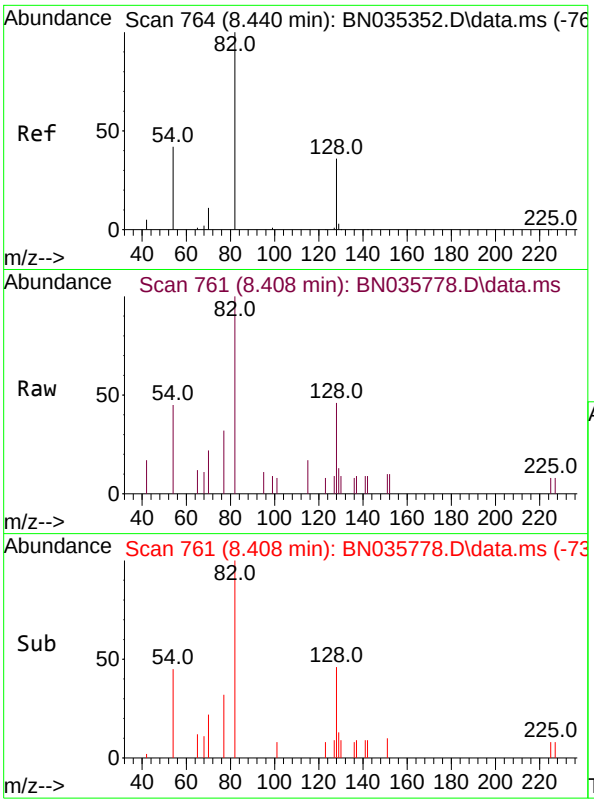


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:136 Resp: 7756

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.2	6.1	9.1
68	7.9	6.4	9.6

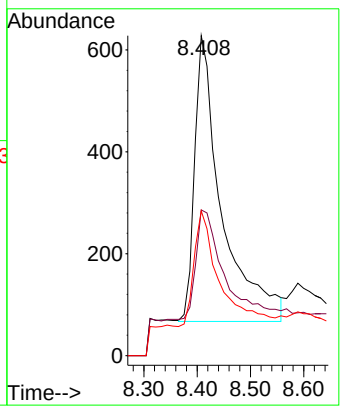




#8
Nitrobenzene-d5
Concen: 0.419 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion: 82 Resp: 198

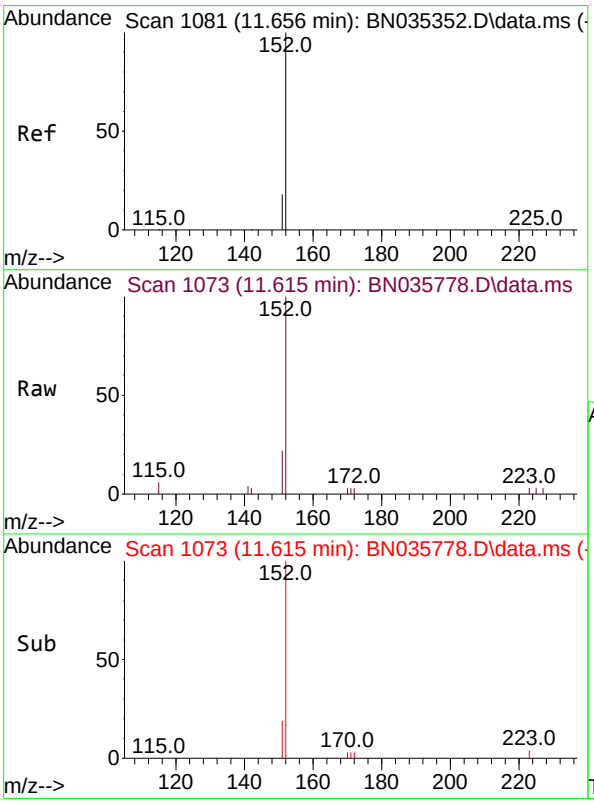
Ion	Ratio	Lower	Upper
82	100		
128	45.5	33.4	50.0
54	45.2	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

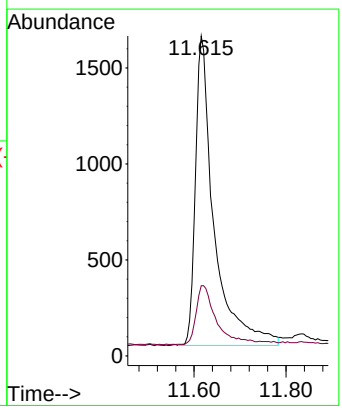
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

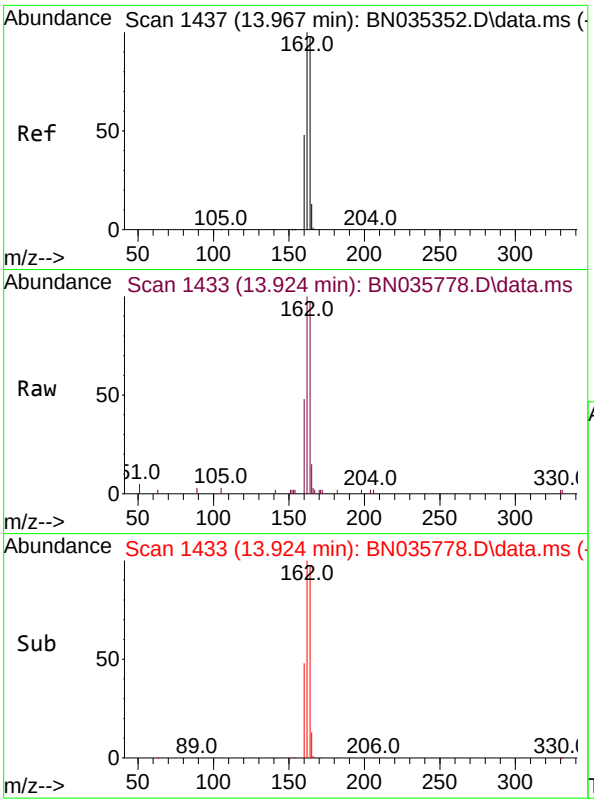


#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:152 Resp: 4519

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

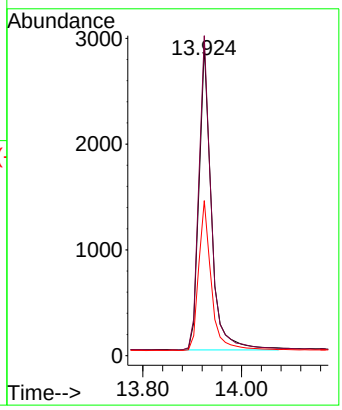




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:164 Resp: 502

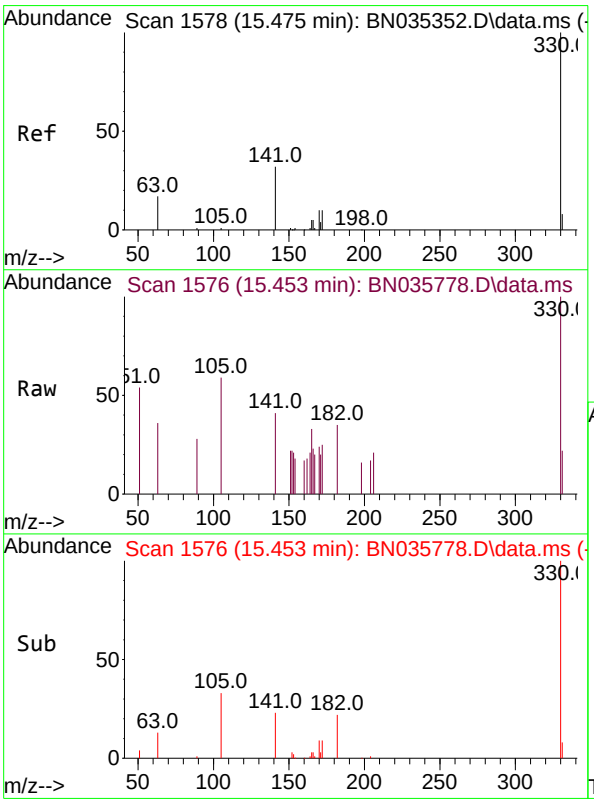
Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.2	123.2
160	50.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

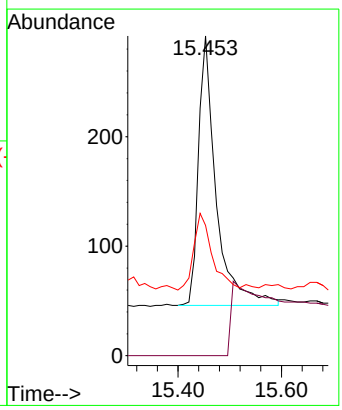
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

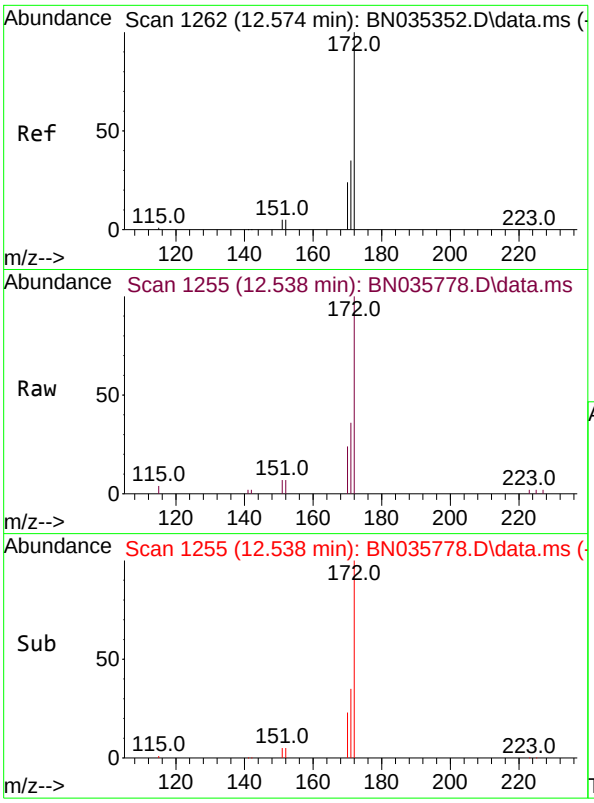


#14
2,4,6-Tribromophenol
Concen: 0.172 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:330 Resp: 614

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.7	26.6	40.0

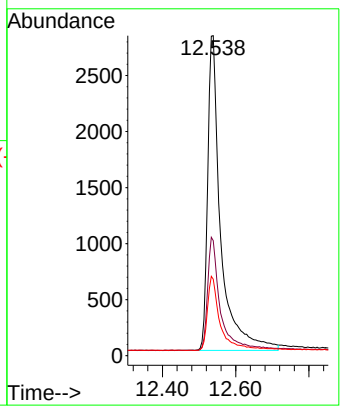




#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:172 Resp: 695

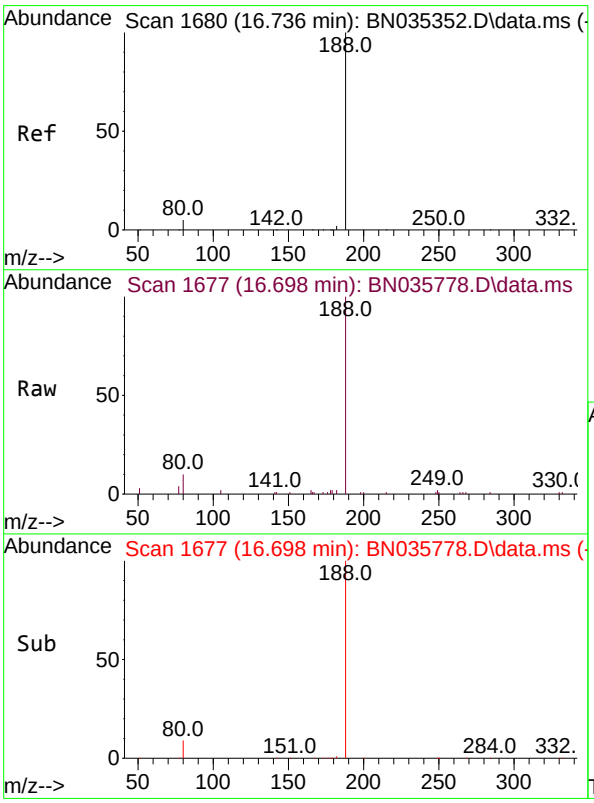
Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	23.9	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

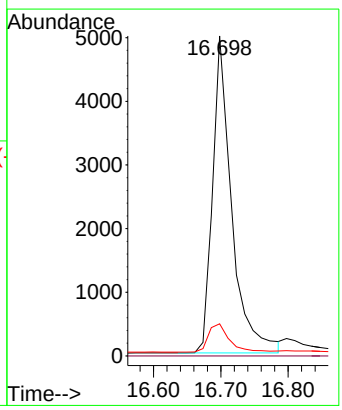
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

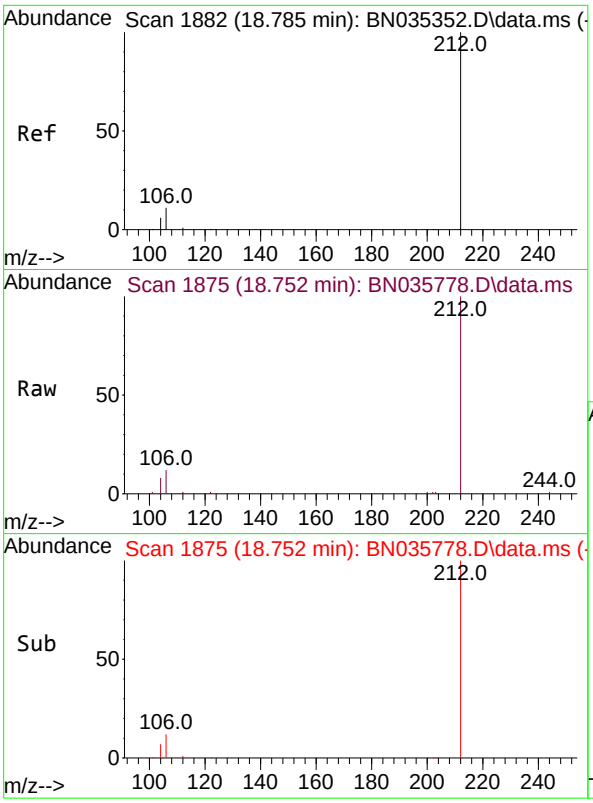


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:188 Resp: 9829

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	4.6	6.8#

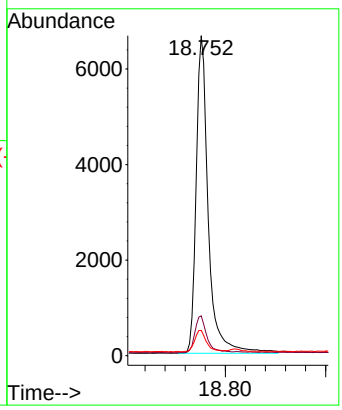




#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:212 Resp: 1110

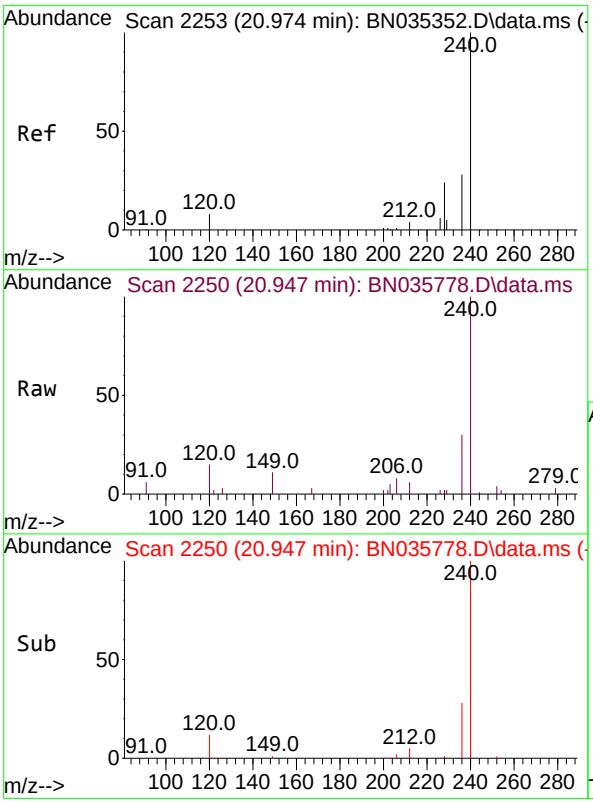
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

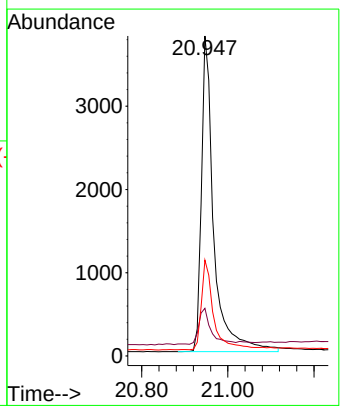
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

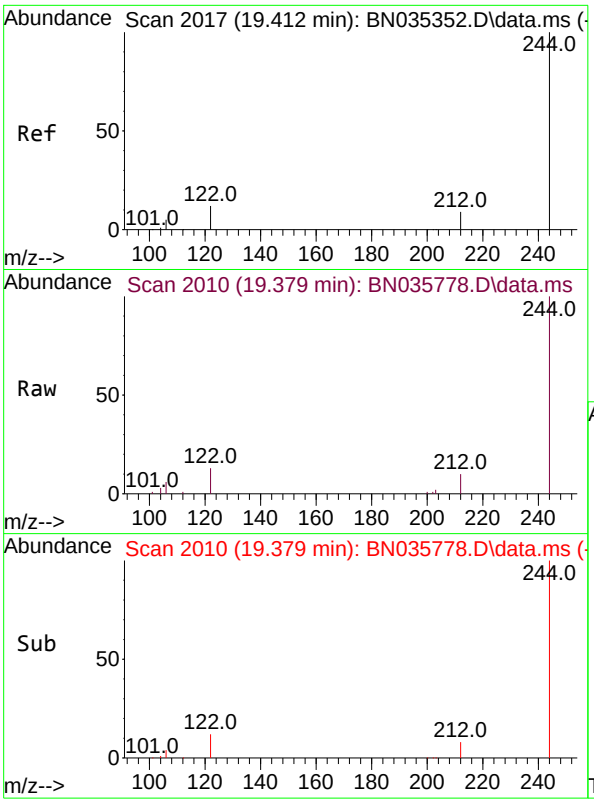


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:240 Resp: 7584

Ion	Ratio	Lower	Upper
240	100		
120	14.9	7.9	11.9#
236	30.0	22.9	34.3

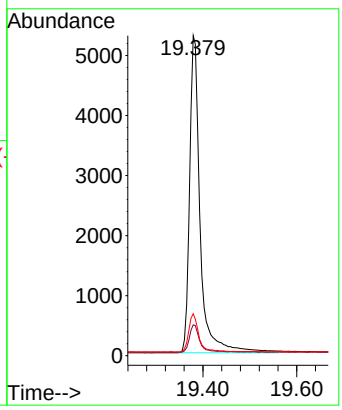




#31
Terphenyl-d14
Concen: 0.552 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:244 Resp: 826

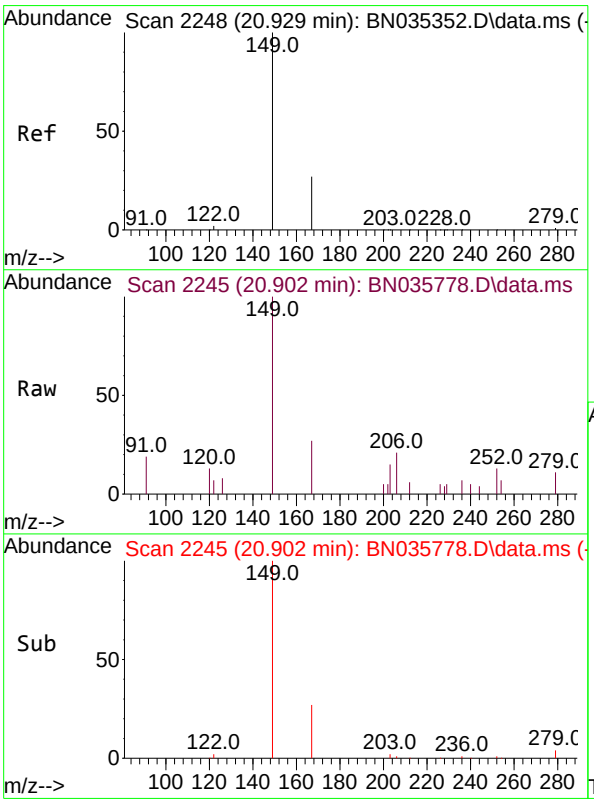
Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

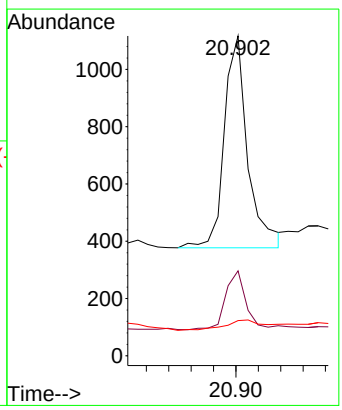
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

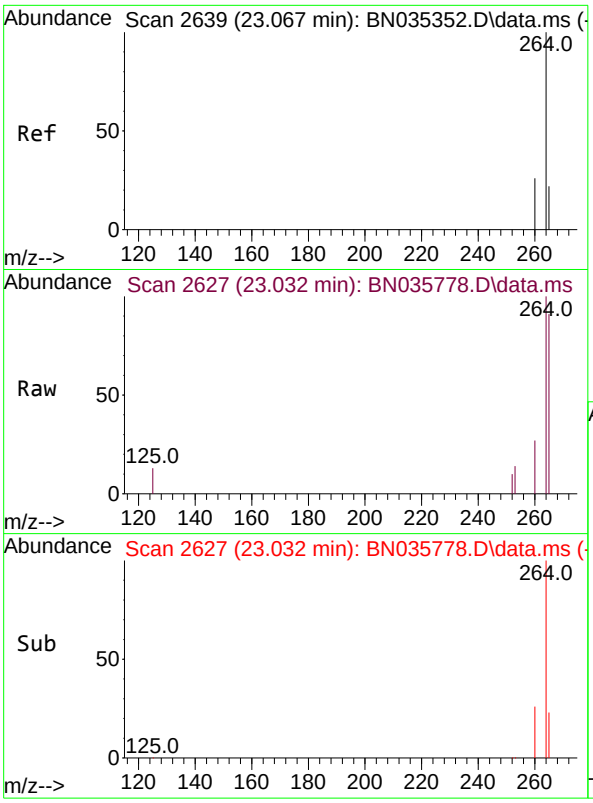


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.103 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:149 Resp: 1077

Ion	Ratio	Lower	Upper
149	100		
167	26.3	22.2	33.4
279	7.7	2.7	4.1#

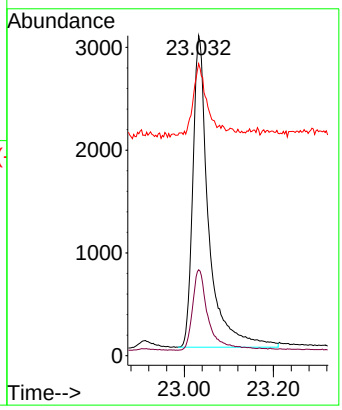




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:264 Resp: 748

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	91.2	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Raw Data: **BN035813.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT101D2-20241212DL	SDG No.:	P5281
Lab Sample ID:	P5281-04DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035813.D	2	12/16/24 11:30	12/24/24 10:10	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.10	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		136%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3010	7.264				
1146-65-2	Naphthalene-d8	6790	10.009				
15067-26-2	Acenaphthene-d10	4270	13.924				
1517-22-2	Phenanthrene-d10	8490	16.698				
1719-03-5	Chrysene-d12	6760	20.947				
1520-96-3	Perylene-d12	6810	23.032				

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_N\Data\BN122324\
Data File : BN035813.D
Acq On : 24 Dec 2024 10:10
Operator : RC/JU
Sample : P5281-04DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:16:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3005	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6792	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4271	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8487	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6764	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6806	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	448	0.060	ng	0.00
5) Phenol-d6	6.484	99	198	0.022	ng	0.00
8) Nitrobenzene-d5	8.418	82	920m	0.222	ng	0.01
11) 2-Methylnaphthalene-d10	11.626	152	1885	0.177	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	291	0.096	ng	0.00
15) 2-Fluorobiphenyl	12.544	172	3073	0.190	ng	0.00
27) Fluoranthene-d10	18.752	212	5039	0.209	ng	0.00
31) Terphenyl-d14	19.379	244	3636	0.272	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	8686	3.024	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	479	0.051	ng #	99

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

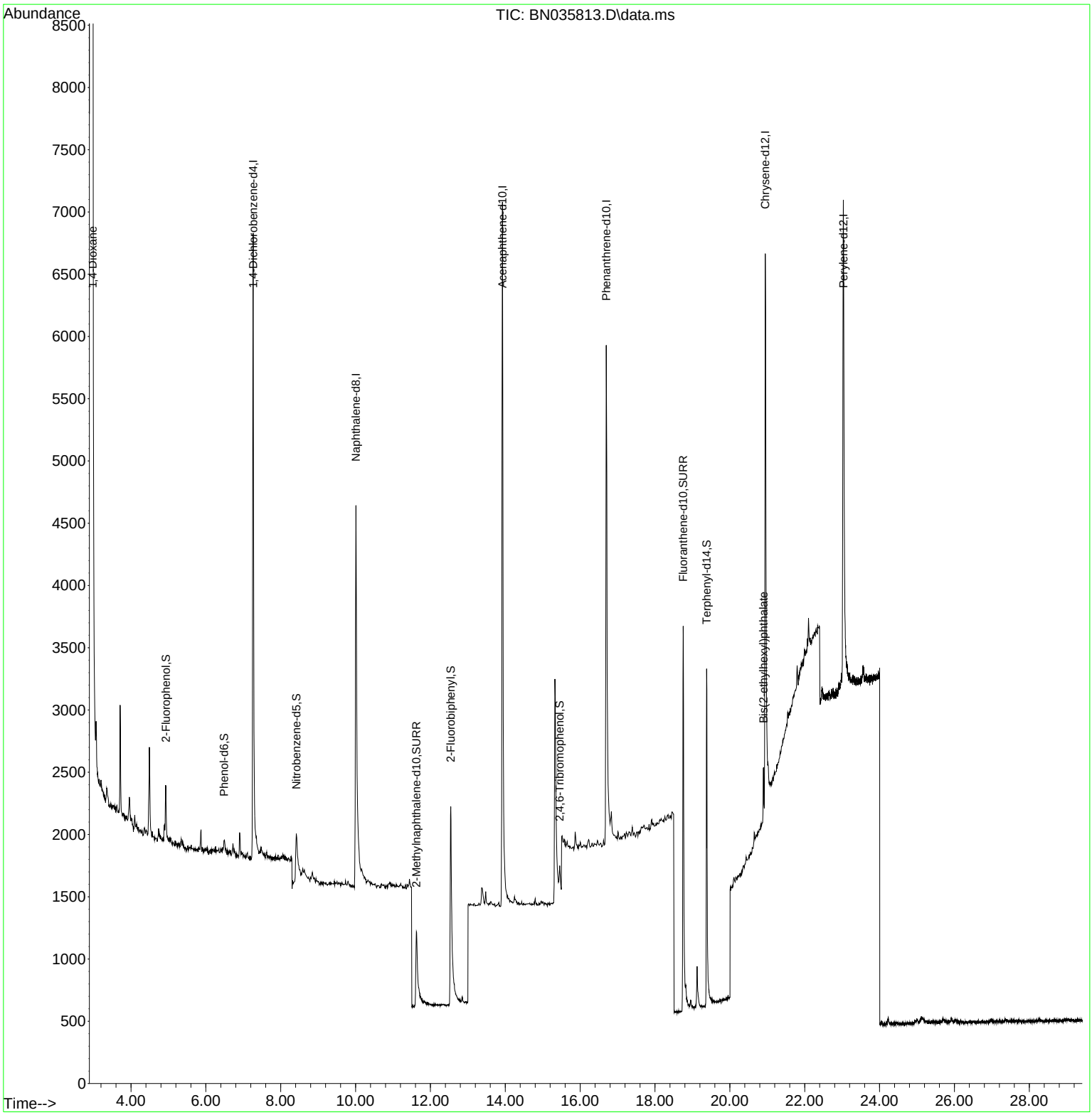
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035813.D
Acq On : 24 Dec 2024 10:10
Operator : RC/JU
Sample : P5281-04DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

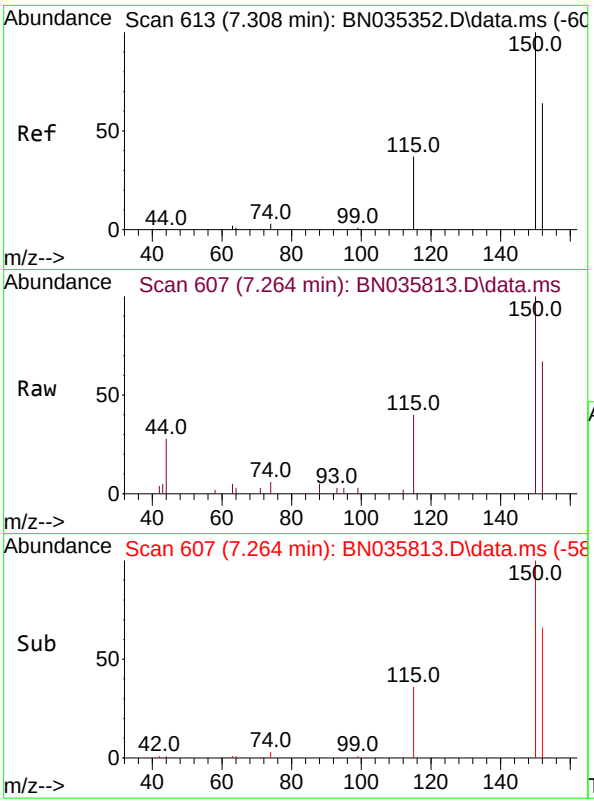
Quant Time: Dec 24 23:16:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

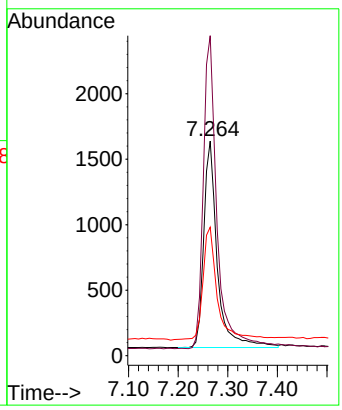




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:152 Resp: 300

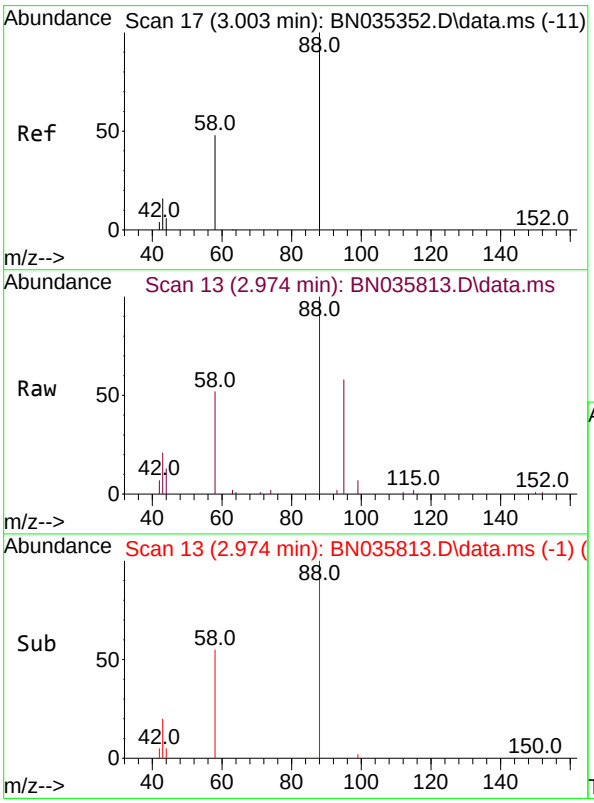
Ion	Ratio	Lower	Upper
152	100		
150	149.1	124.0	186.0
115	59.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

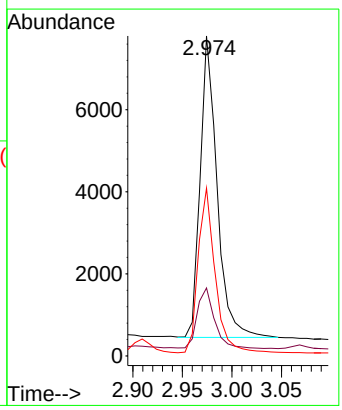
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

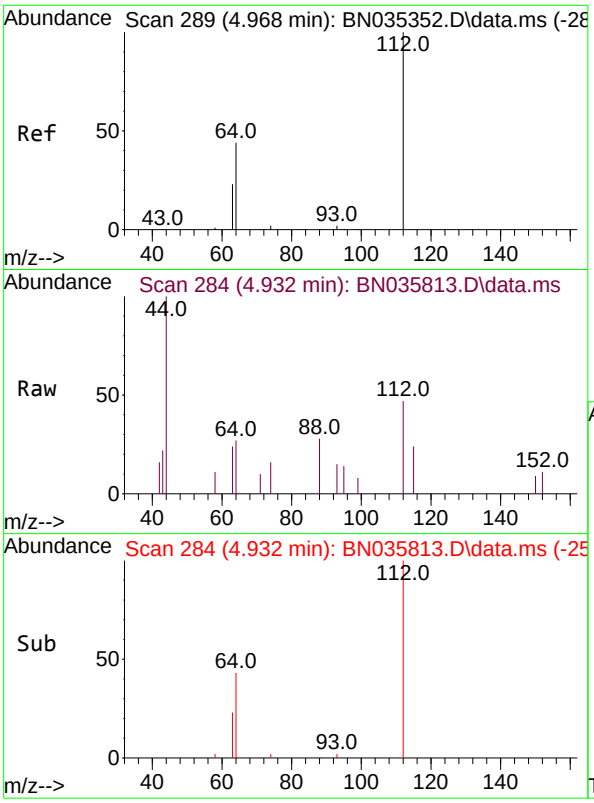


#2
1,4-Dioxane
Concen: 3.024 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion: 88 Resp: 8686

Ion	Ratio	Lower	Upper
88	100		
43	20.8	17.2	25.8
58	55.0	44.5	66.7

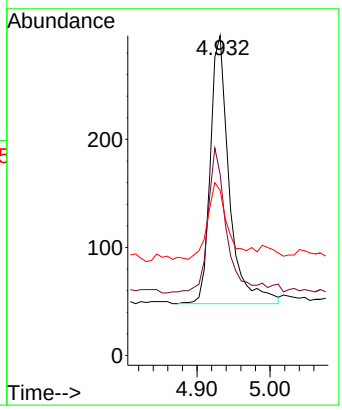




#4
2-Fluorophenol
Concen: 0.060 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:112 Resp: 44

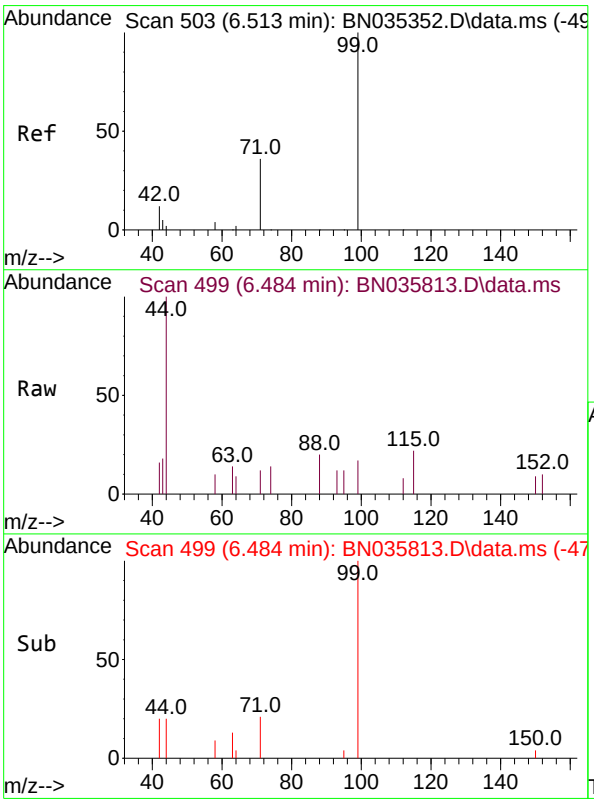
Ion	Ratio	Lower	Upper
112	100		
64	54.7	39.8	59.8
63	29.0	21.0	31.6



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

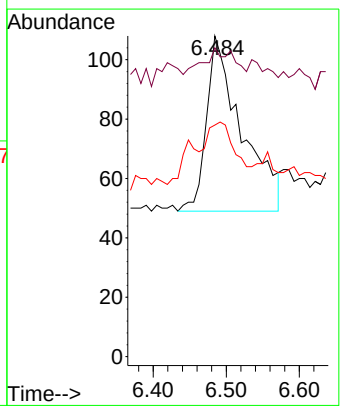
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

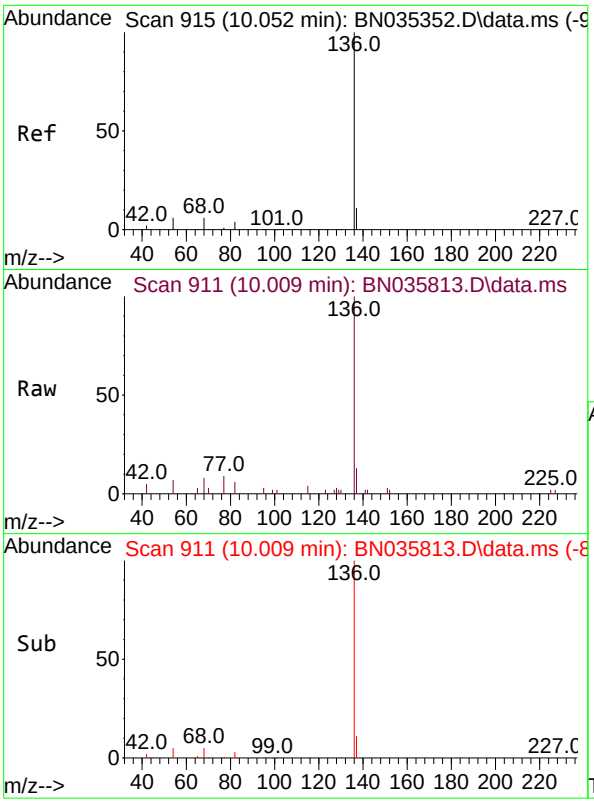


#5
Phenol-d6
Concen: 0.022 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion: 99 Resp: 198

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	25.8	29.3	43.9#

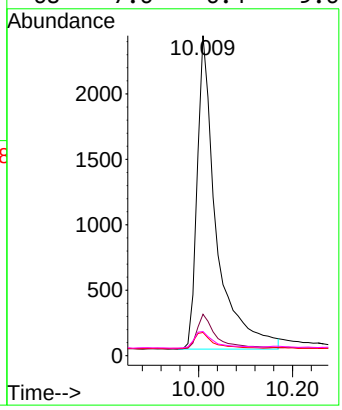




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:136 Resp: 679

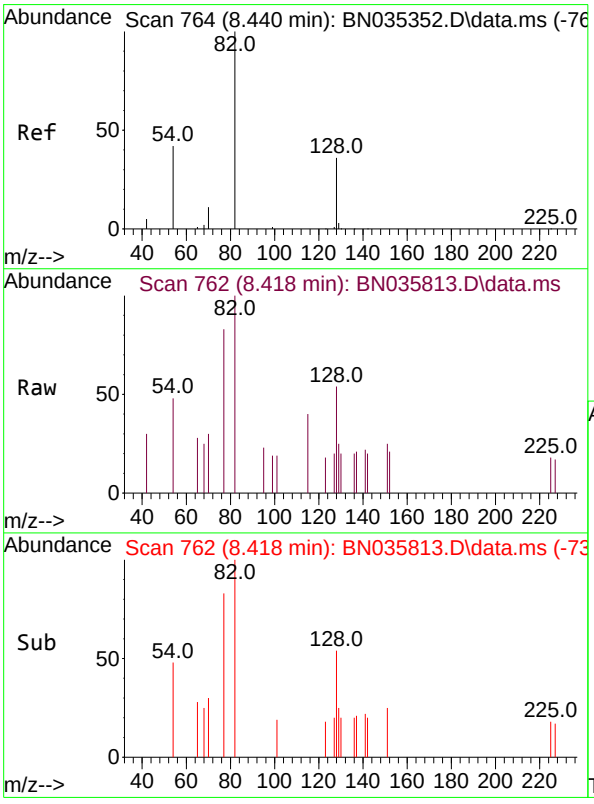
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.3	6.1	9.1
68	7.6	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

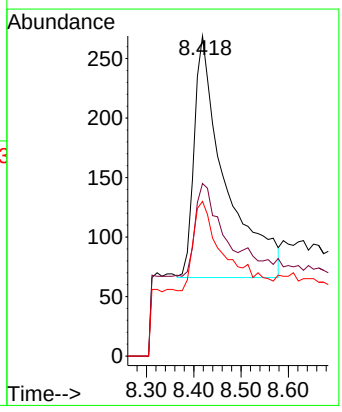
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

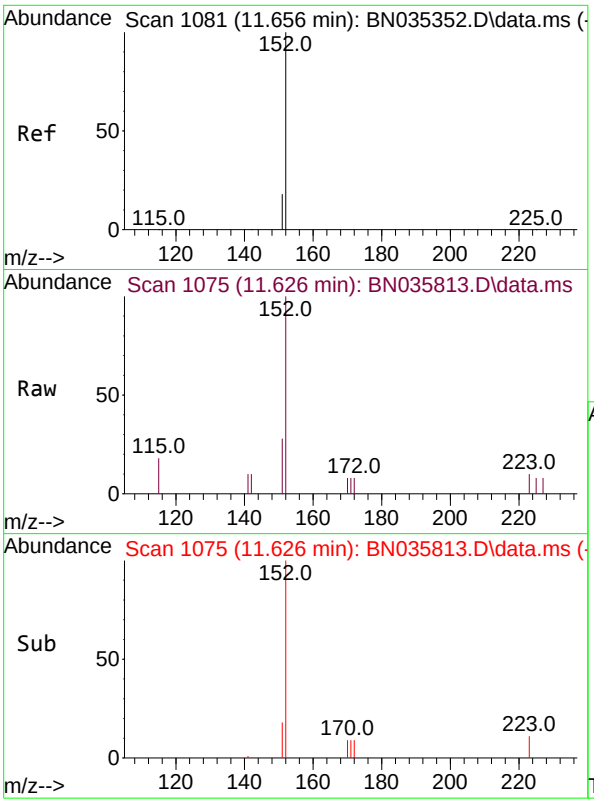


#8
Nitrobenzene-d5
Concen: 0.222 ng m
RT: 8.418 min Scan# 762
Delta R.T. 0.011 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion: 82 Resp: 920

Ion	Ratio	Lower	Upper
82	100		
128	53.9	33.4	50.0#
54	48.3	36.7	55.1





#11
2-Methylnaphthalene-d10
Concen: 0.177 ng
RT: 11.626 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

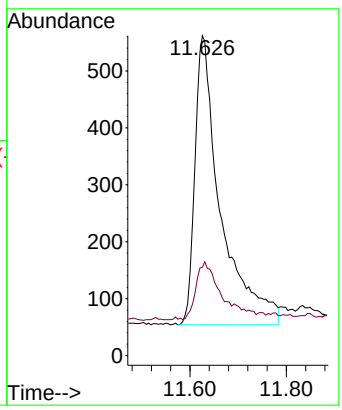
Tgt Ion:152 Resp: 188

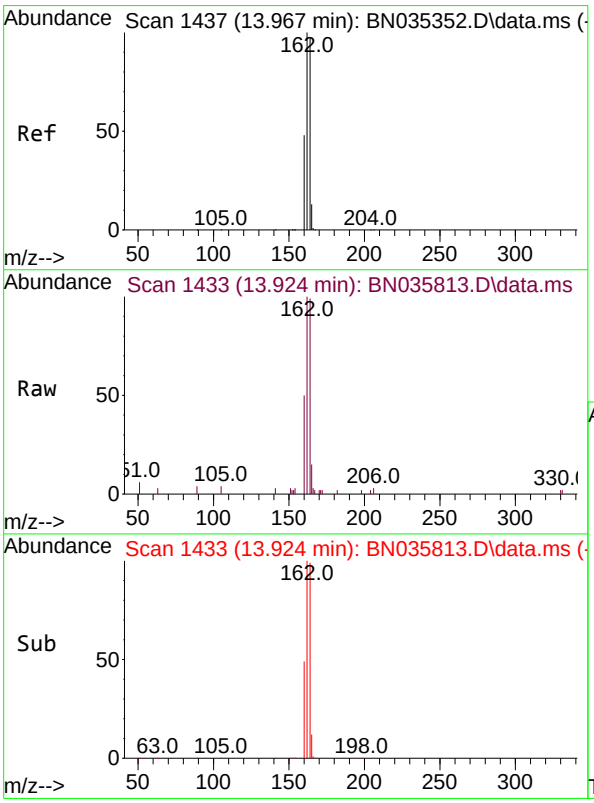
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

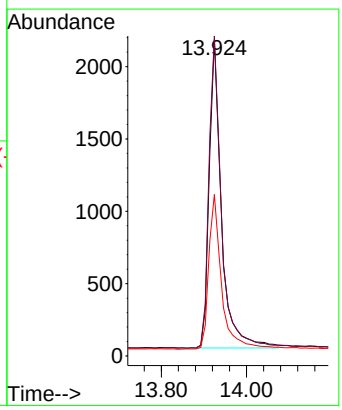


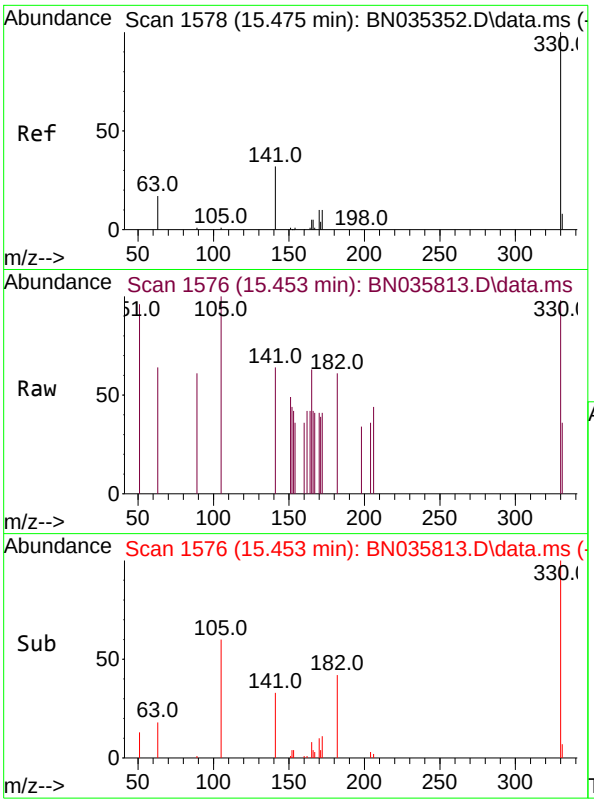


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:164 Resp: 4271

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	51.0	40.1	60.1

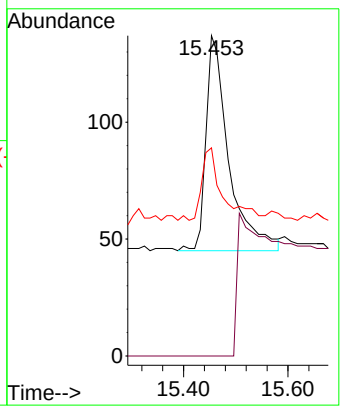




#14
2,4,6-Tribromophenol
Concen: 0.096 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

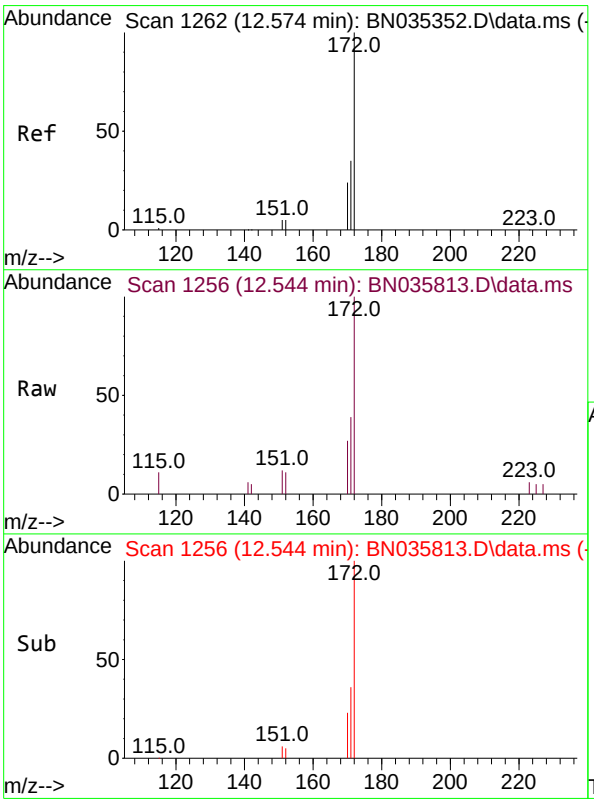
Tgt Ion:330 Resp: 29

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

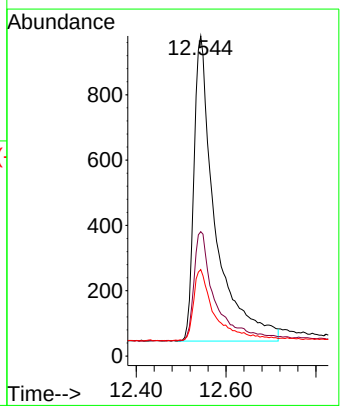
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

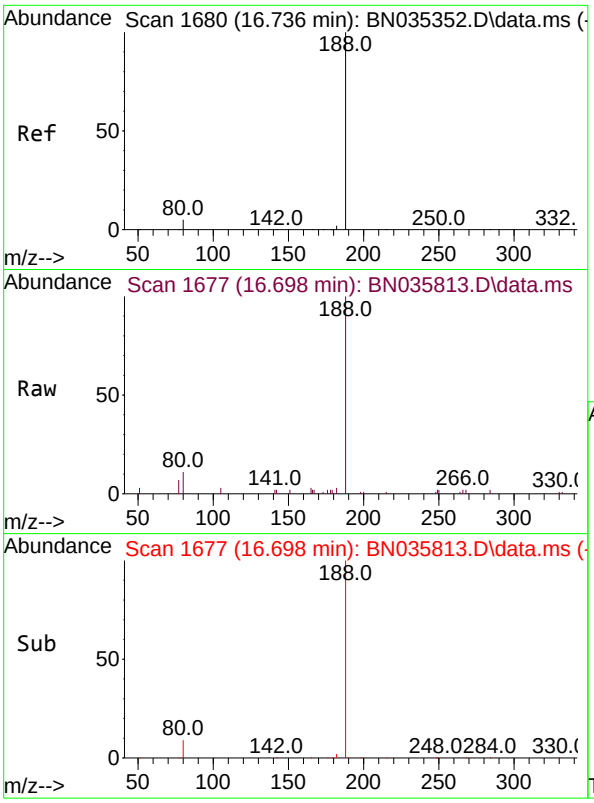


#15
2-Fluorobiphenyl
Concen: 0.190 ng
RT: 12.544 min Scan# 1256
Delta R.T. -0.000 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:172 Resp: 3073

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.0	43.4
170	27.0	19.8	29.8

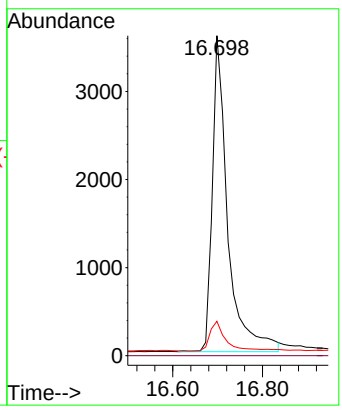




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:188 Resp: 848

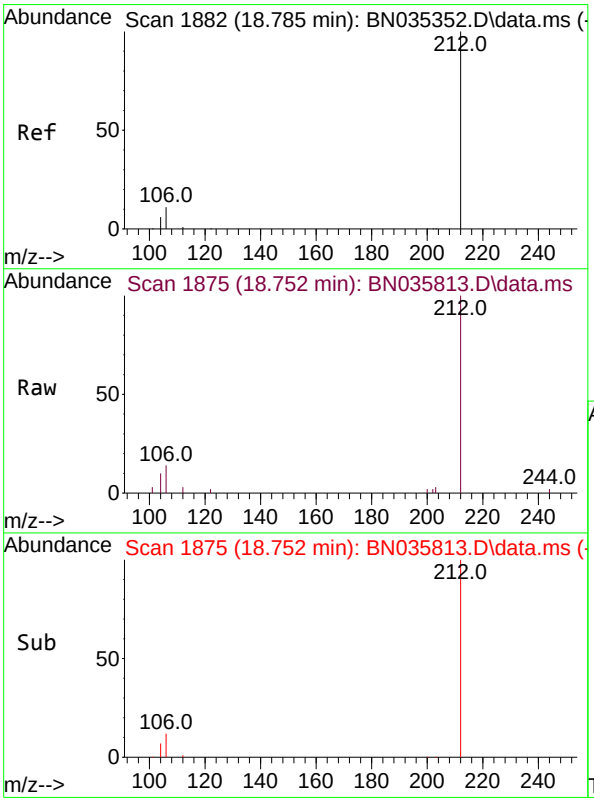
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.7	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

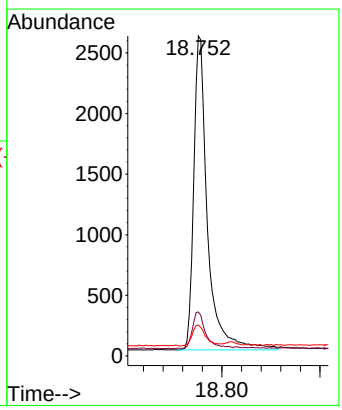
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

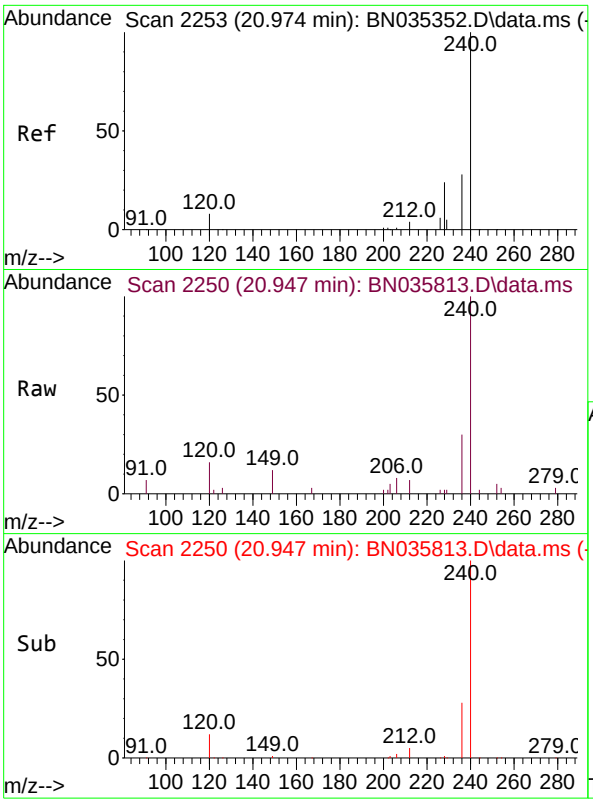


#27
Fluoranthene-d10
Concen: 0.209 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:212 Resp: 5039

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.6	5.3	7.9





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

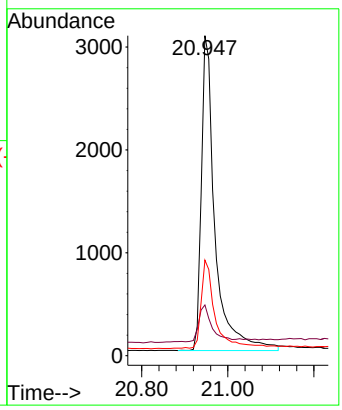
Tgt Ion:240 Resp: 676

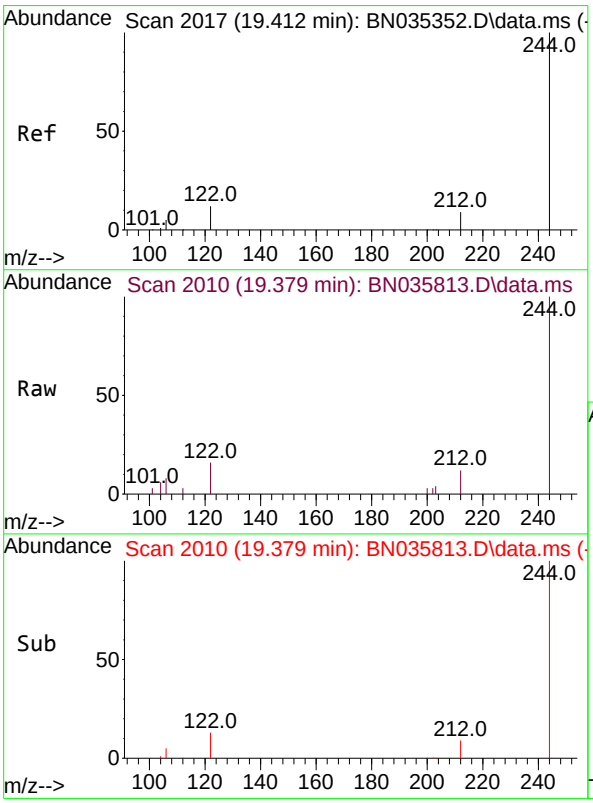
Ion	Ratio	Lower	Upper
240	100		
120	15.8	7.9	11.9#
236	29.9	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

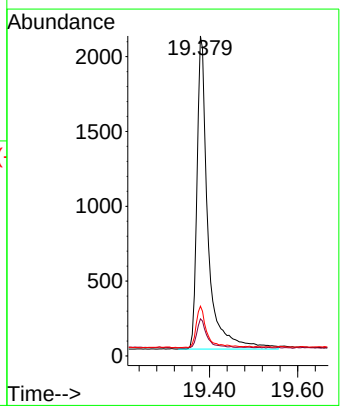


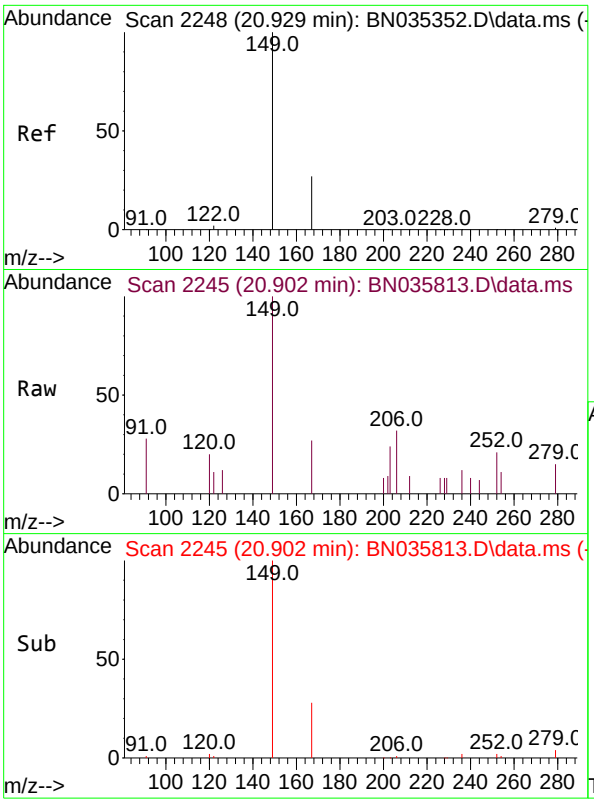


#31
Terphenyl-d14
Concen: 0.272 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:244 Resp: 3636

Ion	Ratio	Lower	Upper
244	100		
212	11.6	8.1	12.1
122	15.6	10.3	15.5#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

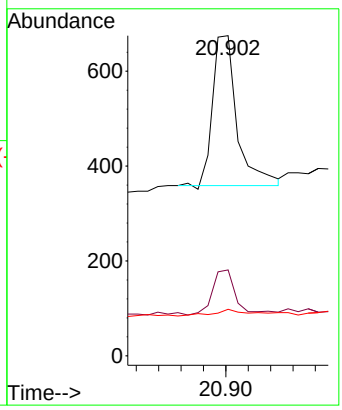
Tgt Ion:149 Resp: 47

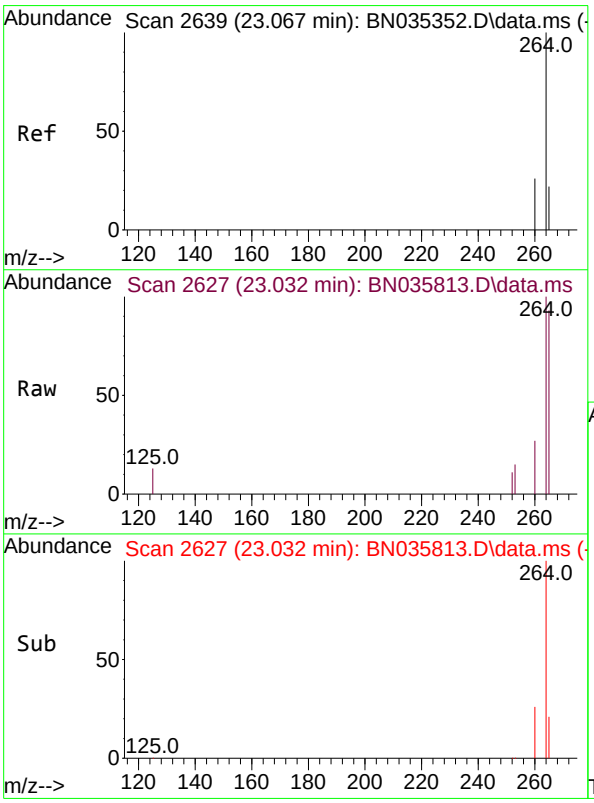
Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	6.5	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

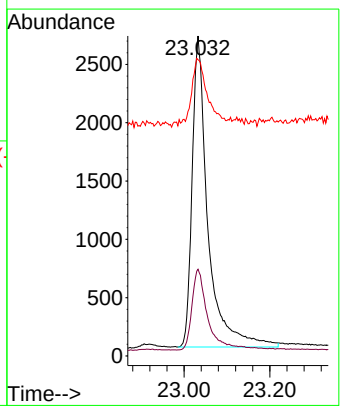




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:264 Resp: 6806

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	92.5	40.2	60.4#



Raw Data: **BN035797.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE117D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035797.D	1	12/16/24 11:30	12/24/24 00:03	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.52		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		116%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3510	7.264				
1146-65-2	Naphthalene-d8	8410	10.009				
15067-26-2	Acenaphthene-d10	4890	13.925				
1517-22-2	Phenanthrene-d10	9470	16.698				
1719-03-5	Chrysene-d12	7610	20.947				
1520-96-3	Perylene-d12	7540	23.032				

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_N\Data\BN122324\
Data File : BN035797.D
Acq On : 24 Dec 2024 00:03
Operator : RC/JU
Sample : P5281-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 01:01:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3510	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8407	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4886	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9472	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7607	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7540	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1083	0.123	ng	0.00
5) Phenol-d6	6.484	99	636	0.060	ng	0.00
8) Nitrobenzene-d5	8.408	82	2385m	0.464	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4871	0.370	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	741	0.214	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7441	0.403	ng	-0.02
27) Fluoranthene-d10	18.752	212	12361	0.460	ng	0.00
31) Terphenyl-d14	19.379	244	9290	0.619	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1740	0.519	ng	96
34) Bis(2-ethylhexyl)phtha...	20.902	149	1153	0.110	ng	# 96

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

Sample Results: **BN035797.D**

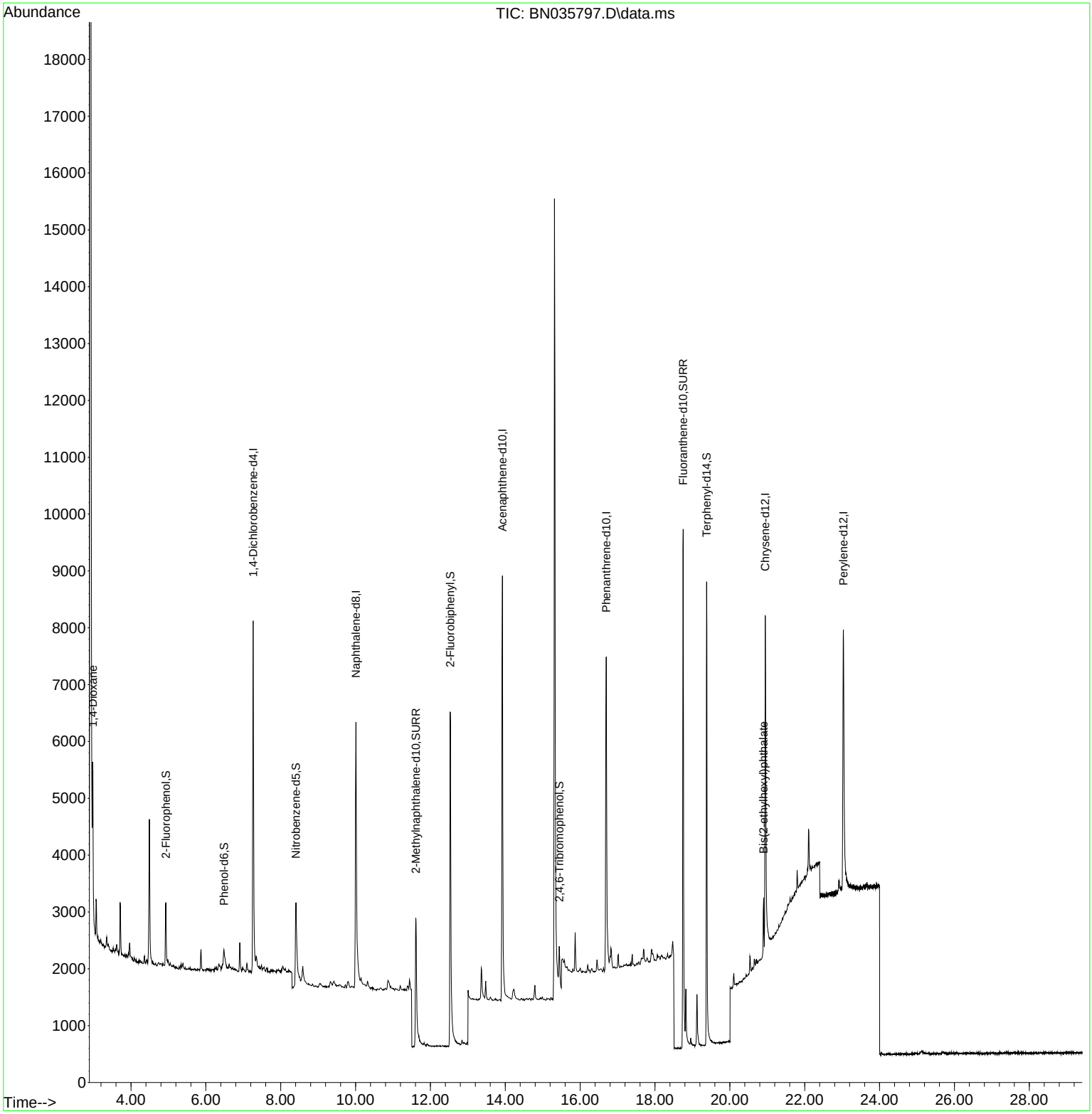
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035797.D
Acq On : 24 Dec 2024 00:03
Operator : RC/JU
Sample : P5281-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

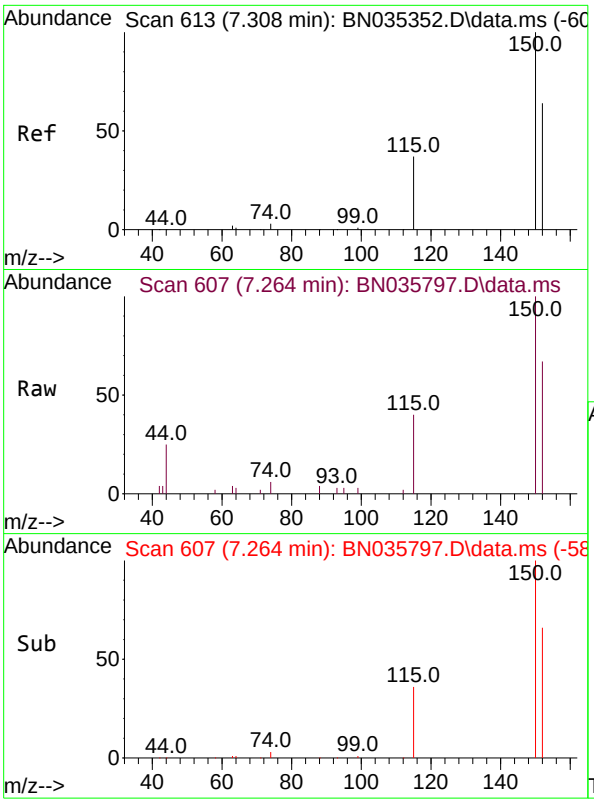
Quant Time: Dec 24 01:01:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

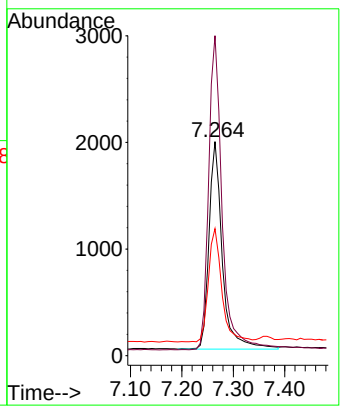




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:152 Resp: 351(

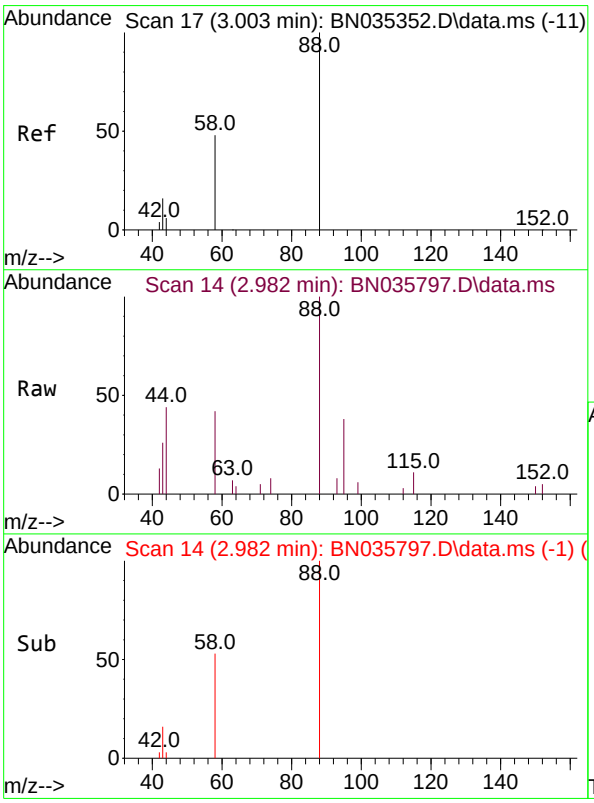
Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.0	186.0
115	59.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

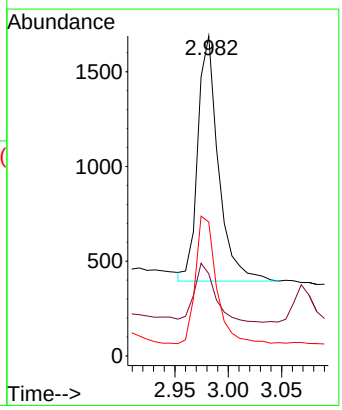
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

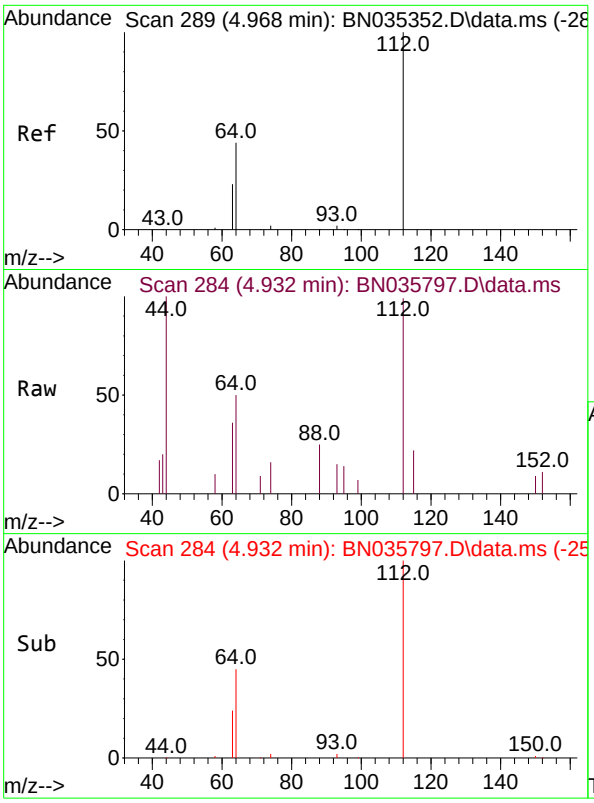


#2
1,4-Dioxane
Concen: 0.519 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion: 88 Resp: 1740

Ion	Ratio	Lower	Upper
88	100		
43	23.8	17.2	25.8
58	52.6	44.5	66.7





#4
2-Fluorophenol
Concen: 0.123 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

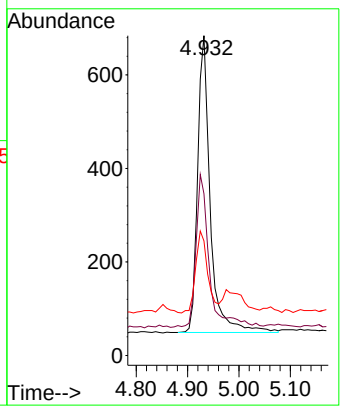
Tgt Ion:112 Resp: 108

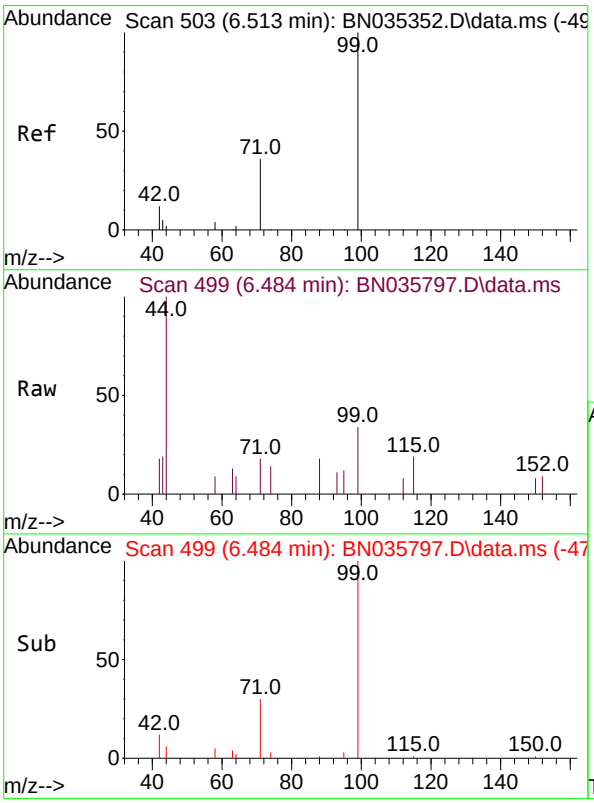
Ion	Ratio	Lower	Upper
112	100		
64	54.1	39.8	59.8
63	26.4	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

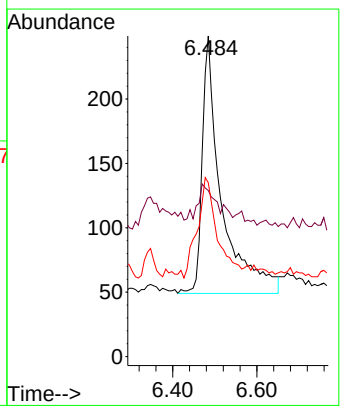


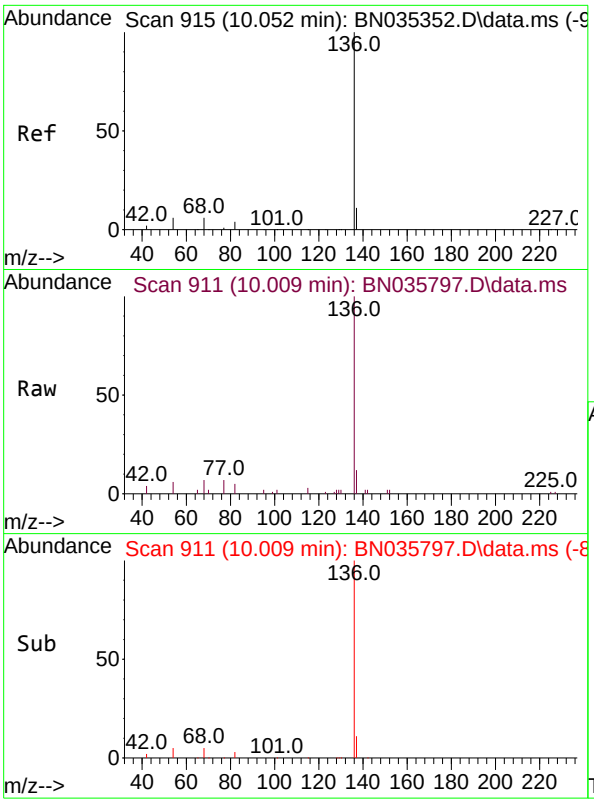


#5
Phenol-d6
Concen: 0.060 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion: 99 Resp: 636

Ion	Ratio	Lower	Upper
99	100		
42	10.7	11.4	17.2#
71	40.7	29.3	43.9

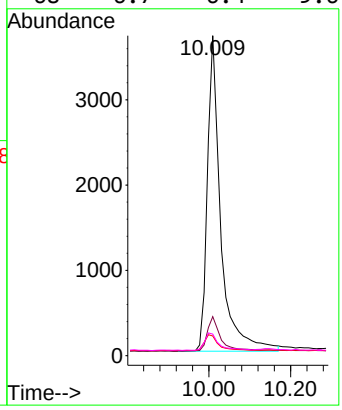




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:136 Resp: 840

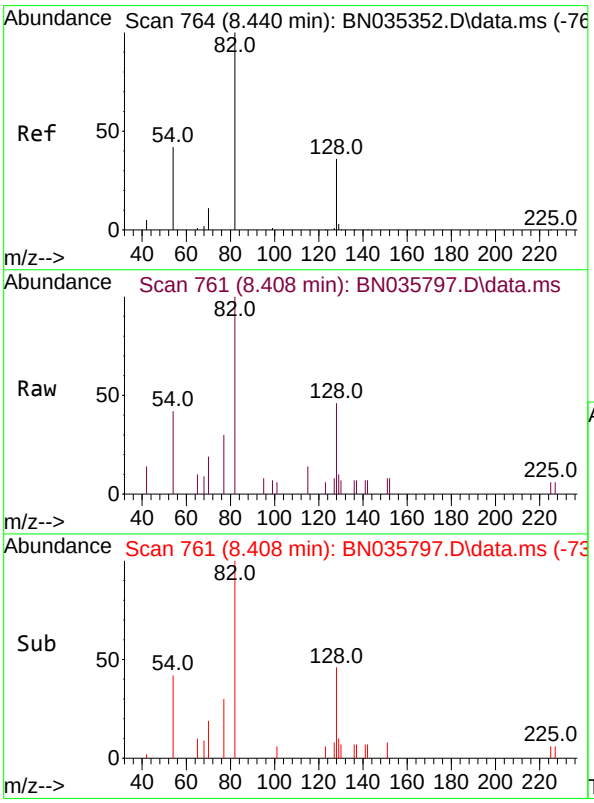
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.2	6.1	9.1
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

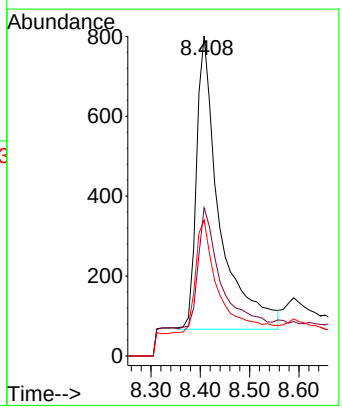
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

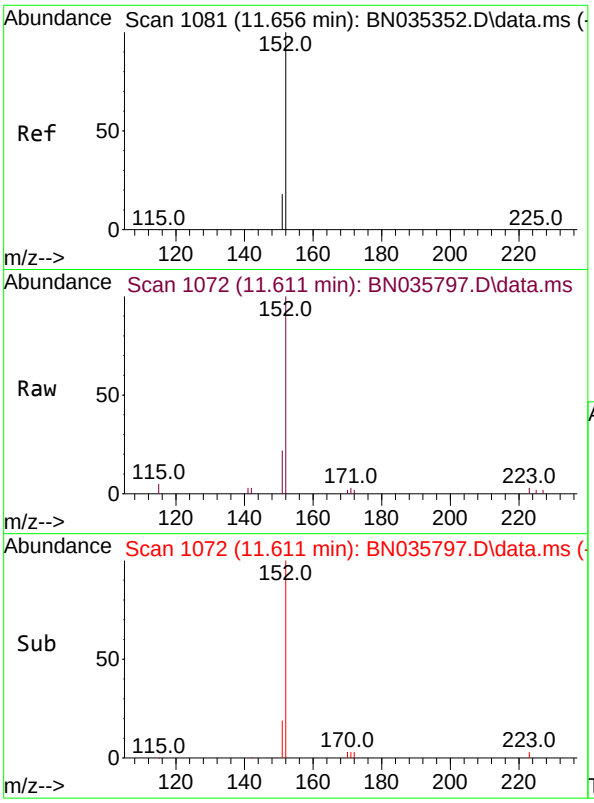


#8
Nitrobenzene-d5
Concen: 0.464 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion: 82 Resp: 2385

Ion	Ratio	Lower	Upper
82	100		
128	46.3	33.4	50.0
54	42.4	36.7	55.1

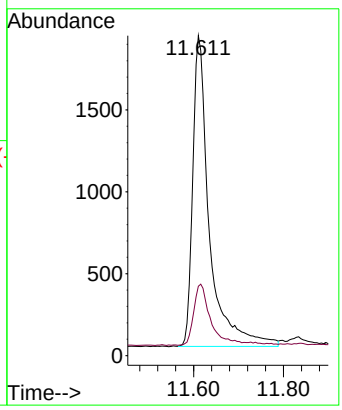




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:152 Resp: 487

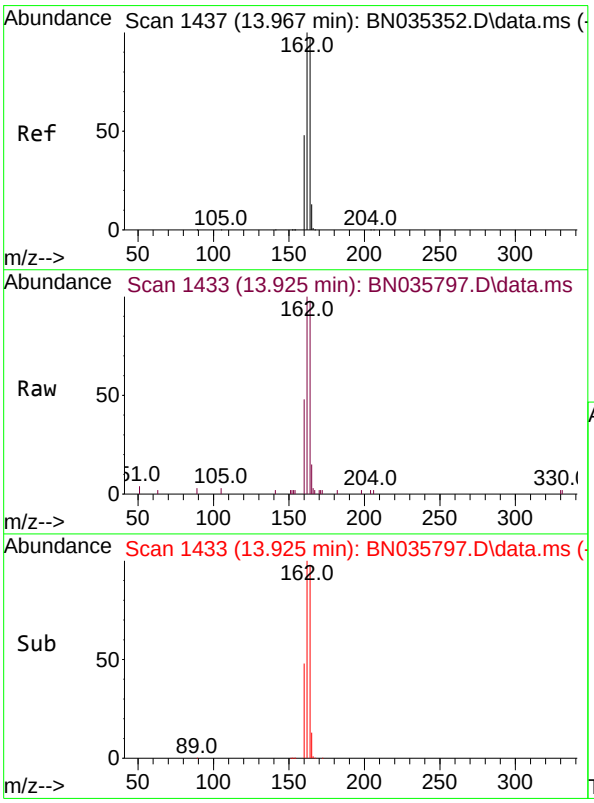
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

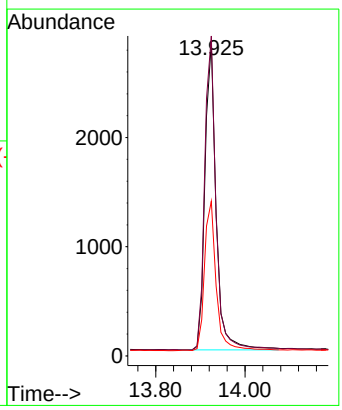
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

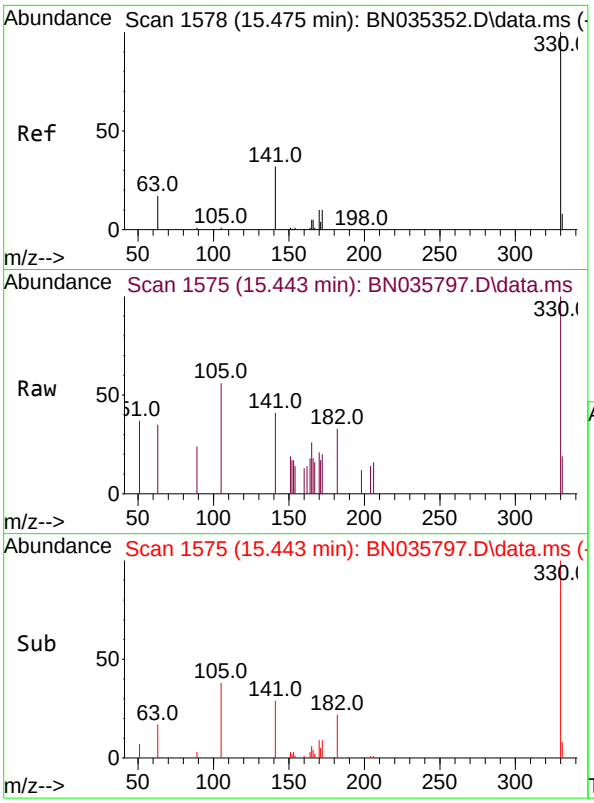


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:164 Resp: 4886

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.4	40.1	60.1

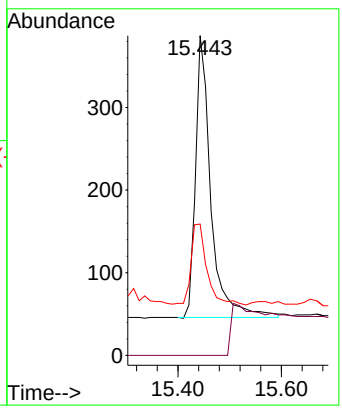




#14
2,4,6-Tribromophenol
Concen: 0.214 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

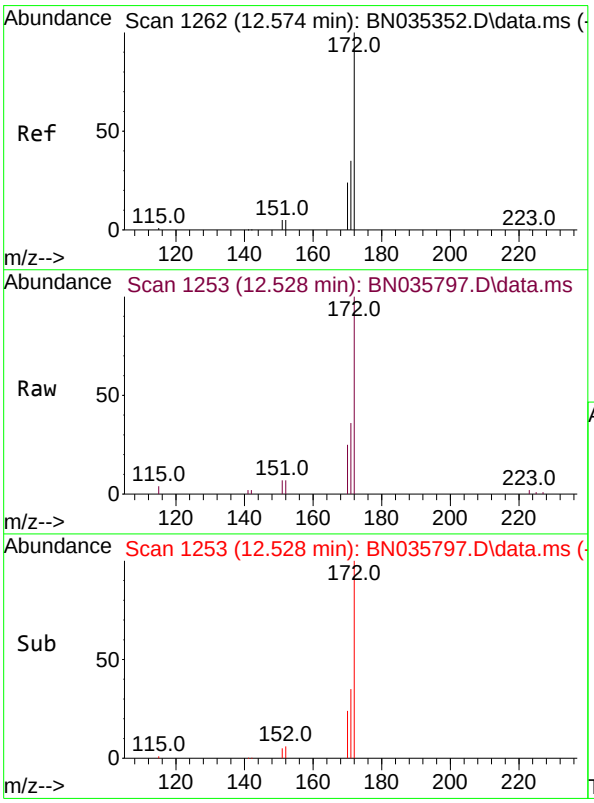
Tgt Ion:330 Resp: 74

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

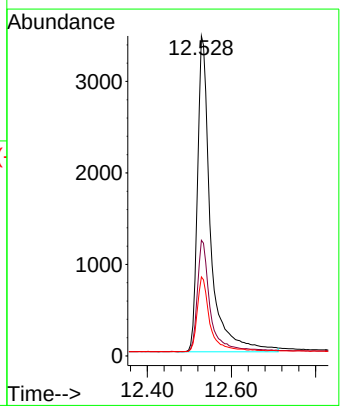
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

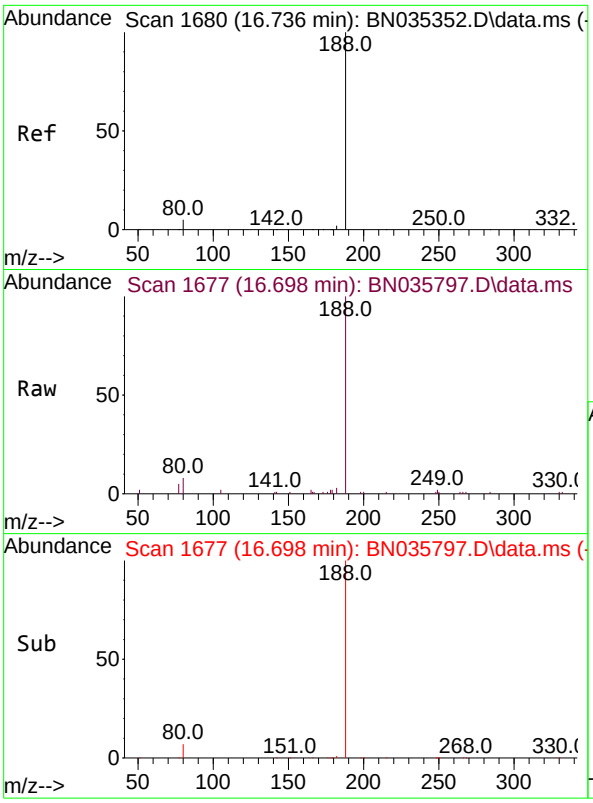


#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:172 Resp: 7441

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.7	19.8	29.8

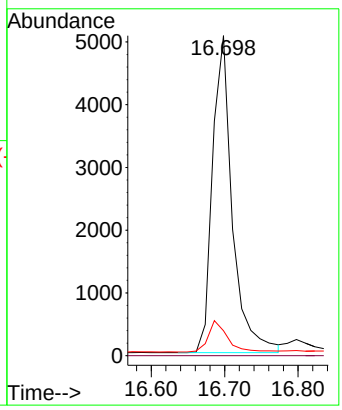




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:188 Resp: 947

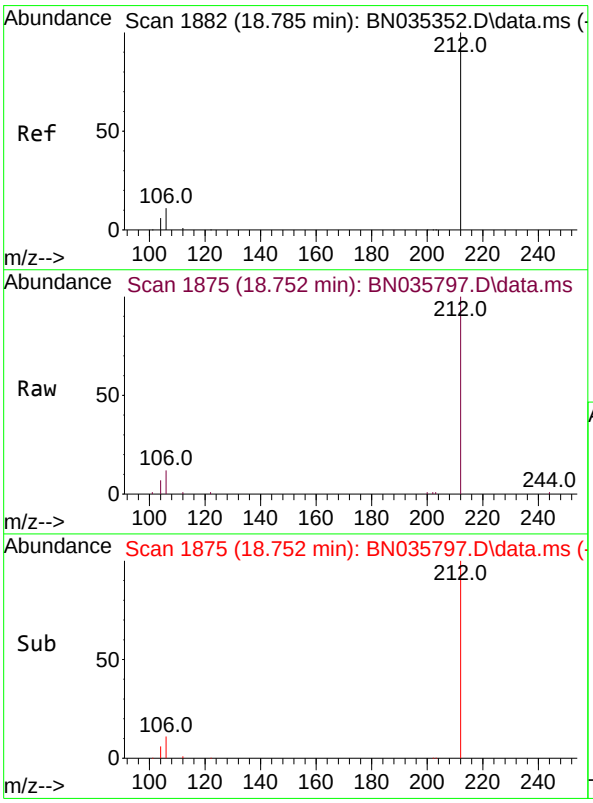
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

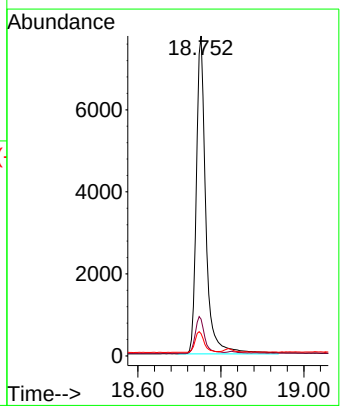
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

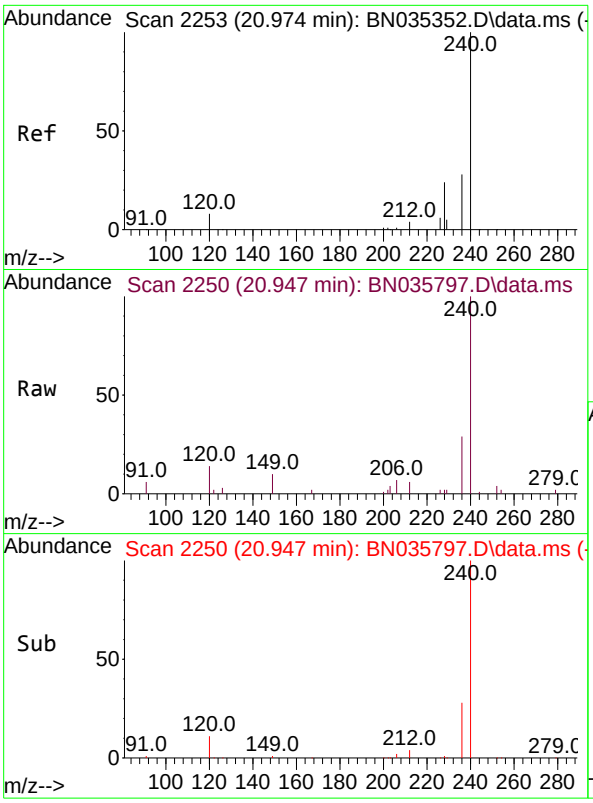


#27
Fluoranthene-d10
Concen: 0.460 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:212 Resp: 12361

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.3	5.3	7.9

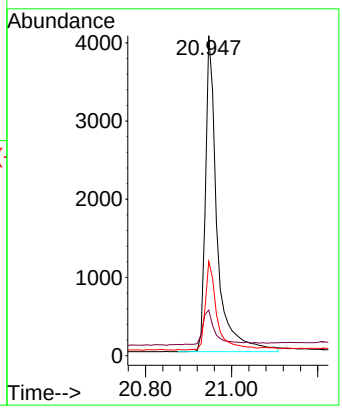




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:240 Resp: 760

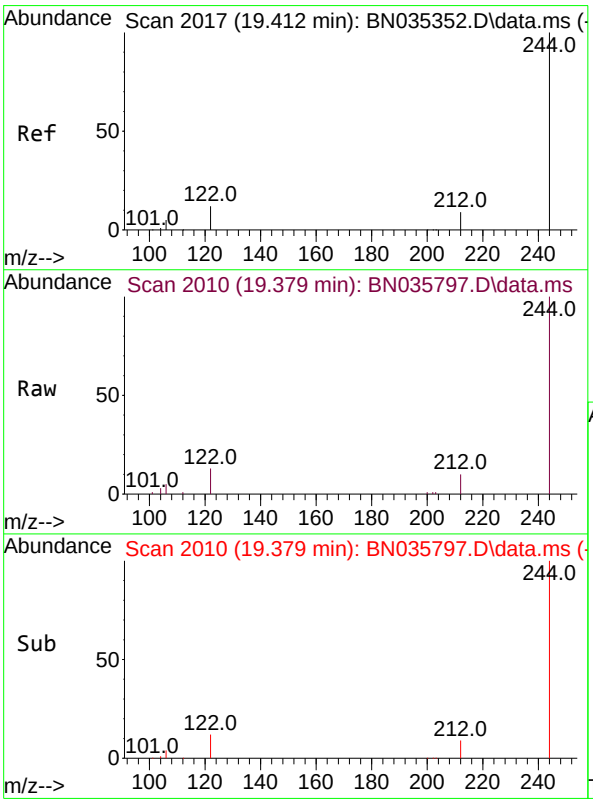
Ion	Ratio	Lower	Upper
240	100		
120	14.2	7.9	11.9
236	29.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

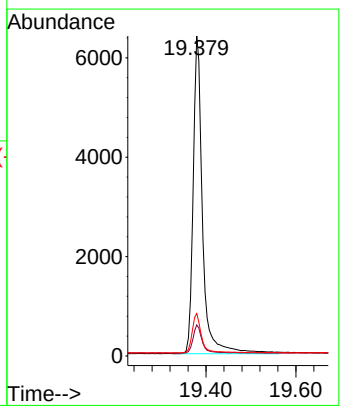
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

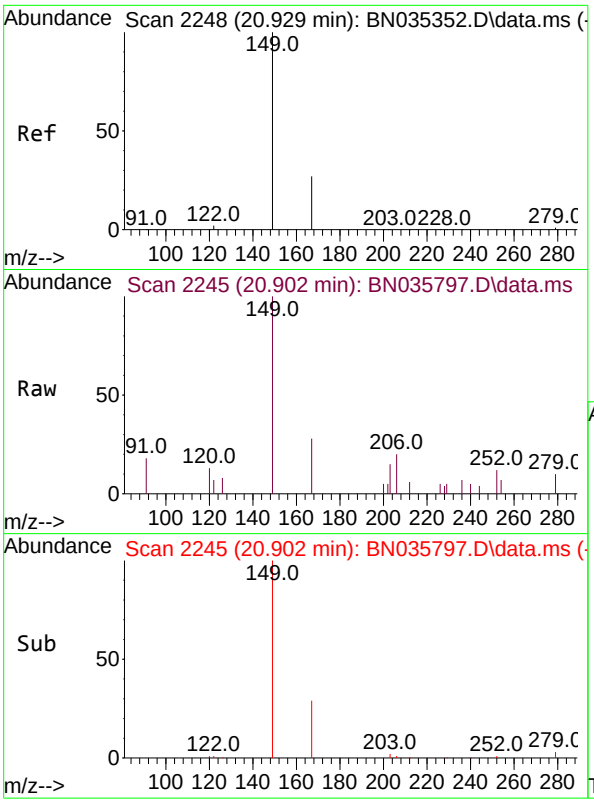


#31
Terphenyl-d14
Concen: 0.619 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:244 Resp: 9290

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	13.2	10.3	15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.110 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

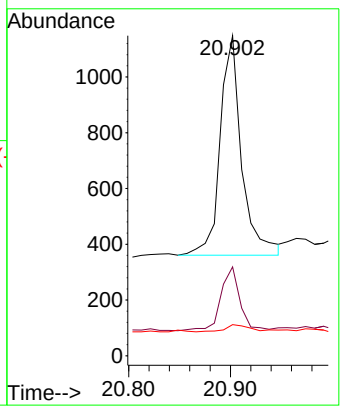
Tgt Ion:149 Resp: 115

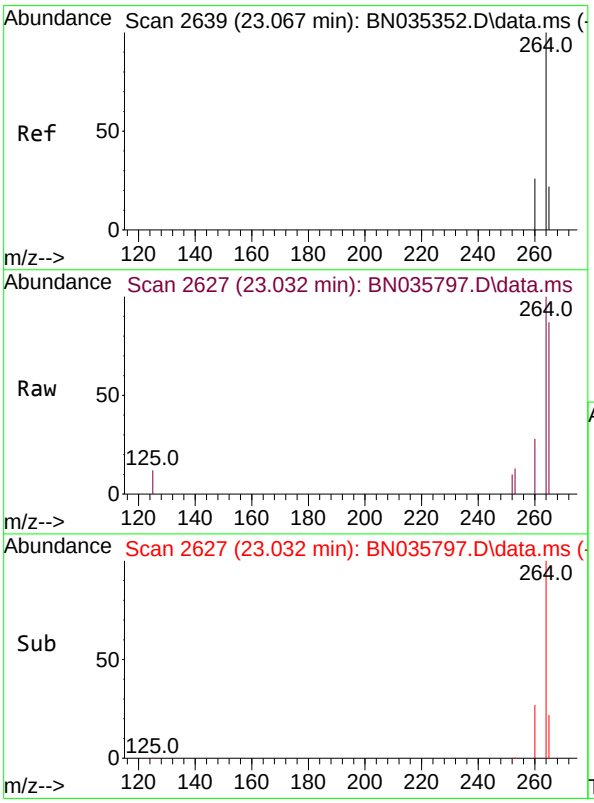
Ion	Ratio	Lower	Upper
149	100		
167	25.8	22.2	33.4
279	4.2	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

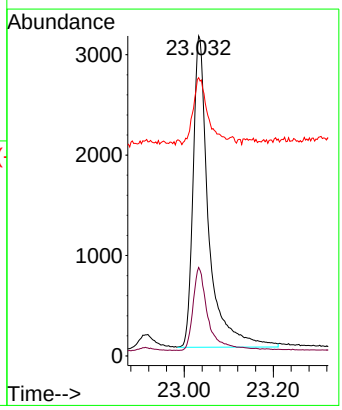




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:264 Resp: 7540

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	86.9	40.2	60.4#



Raw Data: **BN035798.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035798.D	1	12/16/24 11:30	12/24/24 00:38	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.00	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		108%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		154%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3250	7.264				
1146-65-2	Naphthalene-d8	7610	10.009				
15067-26-2	Acenaphthene-d10	4870	13.924				
1517-22-2	Phenanthrene-d10	9370	16.698				
1719-03-5	Chrysene-d12	7410	20.947				
1520-96-3	Perylene-d12	7620	23.029				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN035798.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035798.D
Acq On : 24 Dec 2024 00:38
Operator : RC/JU
Sample : P5281-06
Misc :
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Dec 24 01:19:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3252	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7609	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4867	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9367	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7413	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7624	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	981	0.121	ng	0.00
5) Phenol-d6	6.484	99	566	0.058	ng	0.00
8) Nitrobenzene-d5	8.408	82	2018m	0.434	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4327	0.363	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	695	0.201	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6796	0.369	ng	-0.02
27) Fluoranthene-d10	18.752	212	12268	0.462	ng	0.00
31) Terphenyl-d14	19.379	244	9017	0.617	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	18377	5.911	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	461	0.056	ng	98
34) Bis(2-ethylhexyl)phtha...	20.902	149	962	0.094	ng	# 96

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

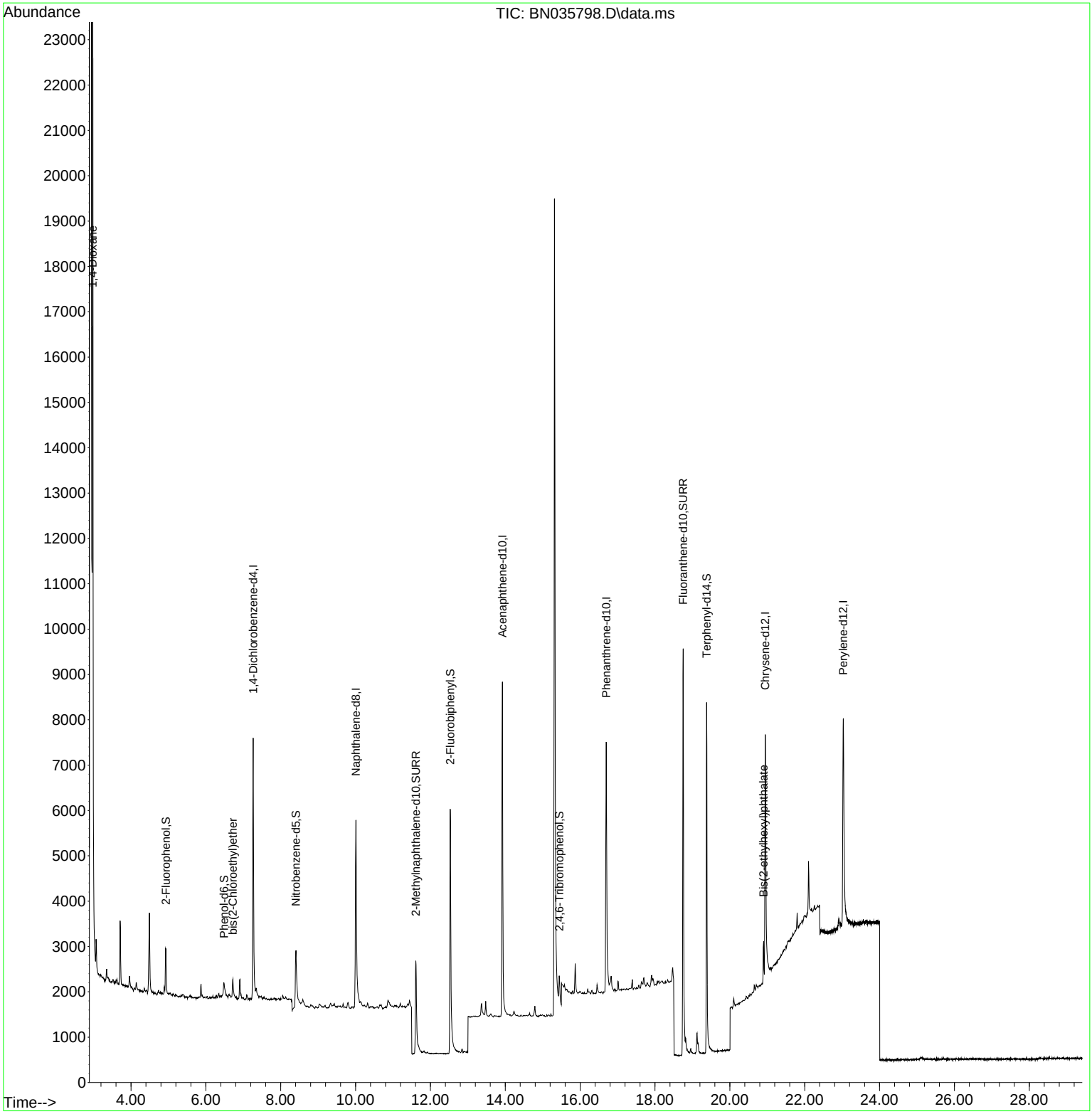
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035798.D
Acq On : 24 Dec 2024 00:38
Operator : RC/JU
Sample : P5281-06
Misc :
ALS Vial : 80 Sample Multiplier: 1

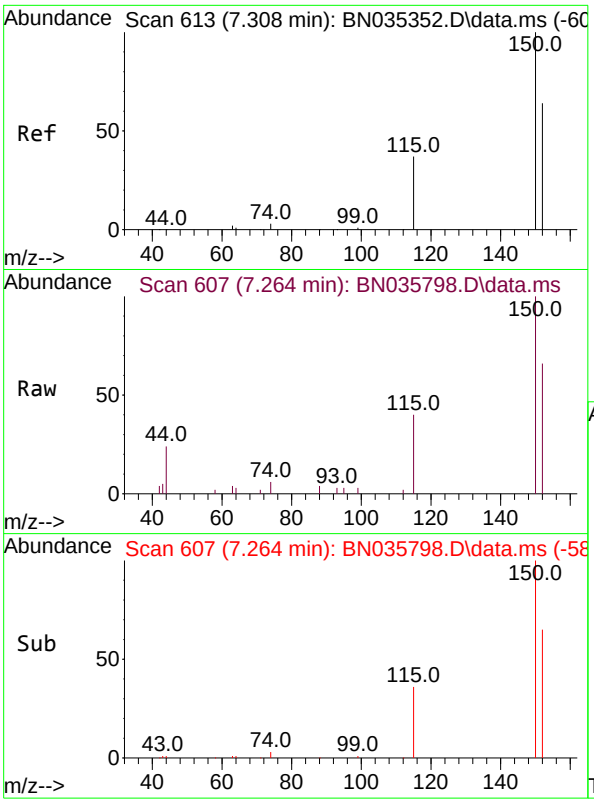
Quant Time: Dec 24 01:19:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

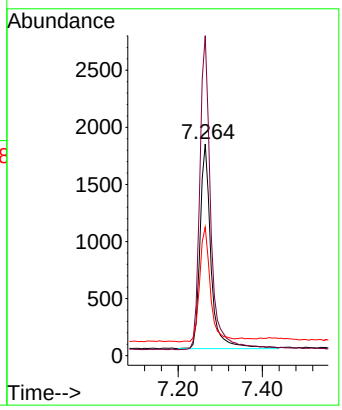




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:152 Resp: 325

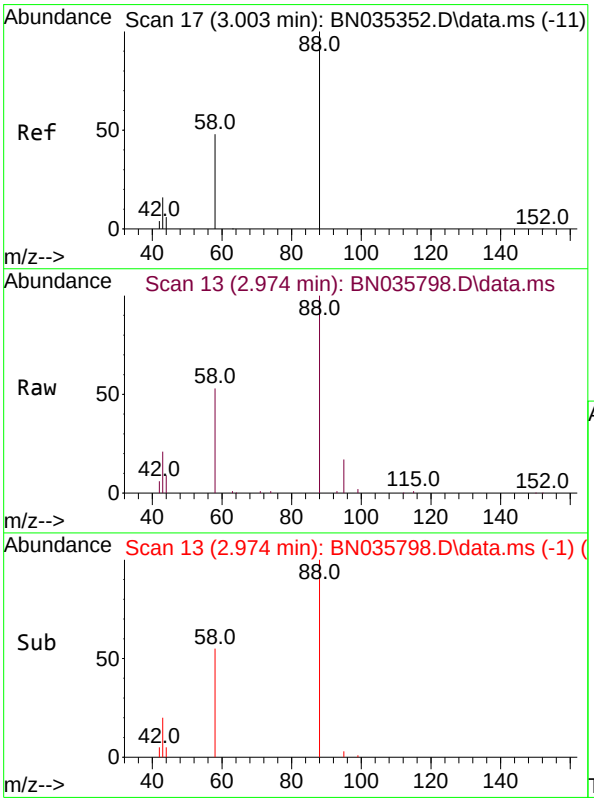
Ion	Ratio	Lower	Upper
152	100		
150	151.2	124.0	186.0
115	60.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

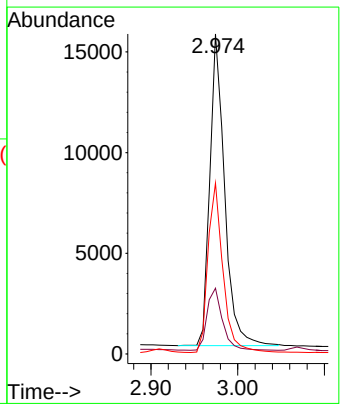
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

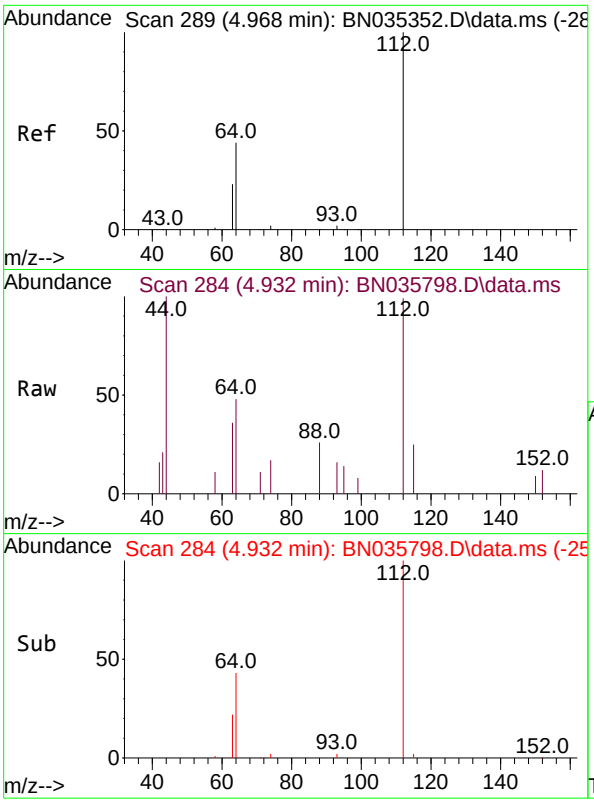


#2
1,4-Dioxane
Concen: 5.911 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion: 88 Resp: 18377

Ion	Ratio	Lower	Upper
88	100		
43	20.8	17.2	25.8
58	55.0	44.5	66.7





#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

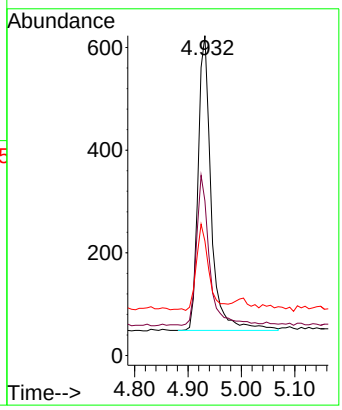
Tgt Ion:112 Resp: 98

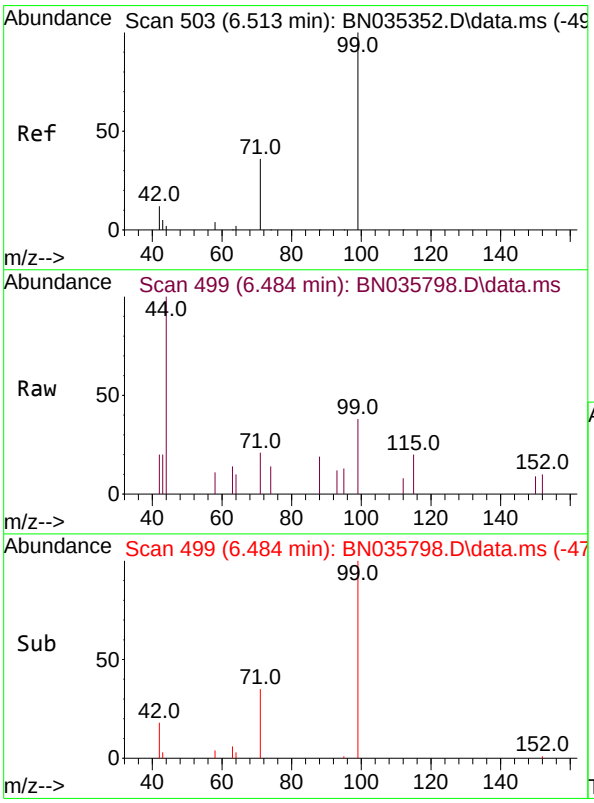
Ion	Ratio	Lower	Upper
112	100		
64	49.9	39.8	59.8
63	27.7	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

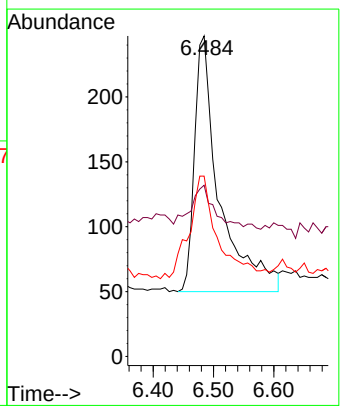


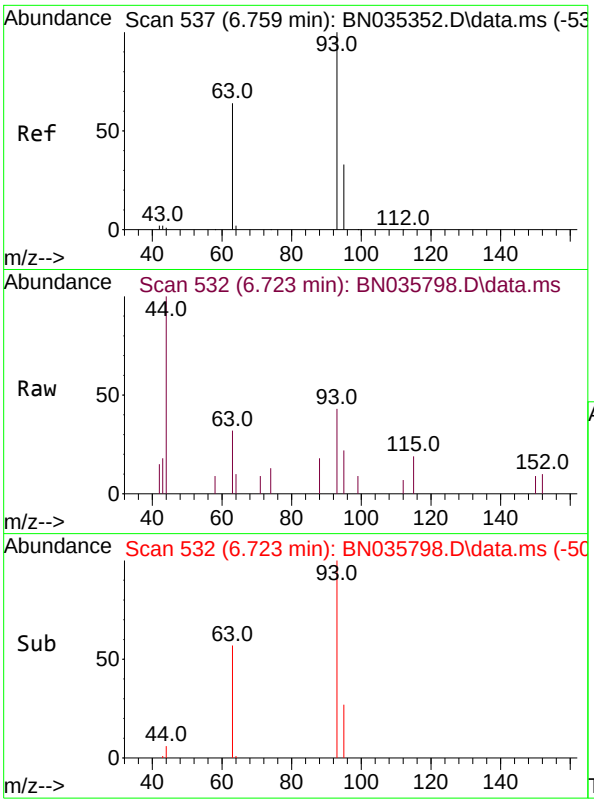


#5
Phenol-d6
Concen: 0.058 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion: 99 Resp: 566

Ion	Ratio	Lower	Upper
99	100		
42	14.8	11.4	17.2
71	46.1	29.3	43.9#

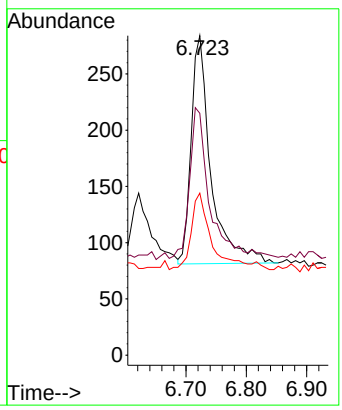




#6
bis(2-Chloroethyl)ether
Concen: 0.056 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion: 93 Resp: 46

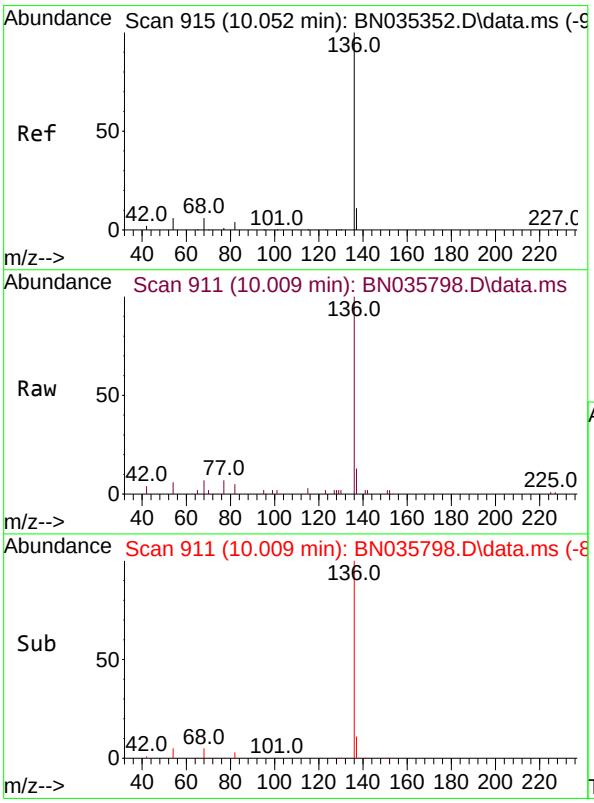
Ion	Ratio	Lower	Upper
93	100		
63	64.6	50.4	75.6
95	30.4	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

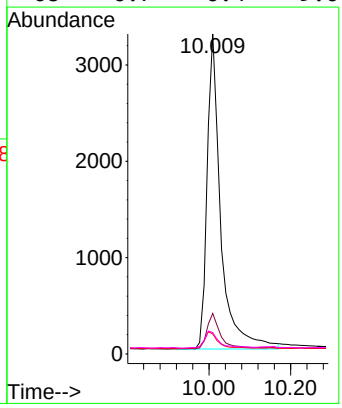
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

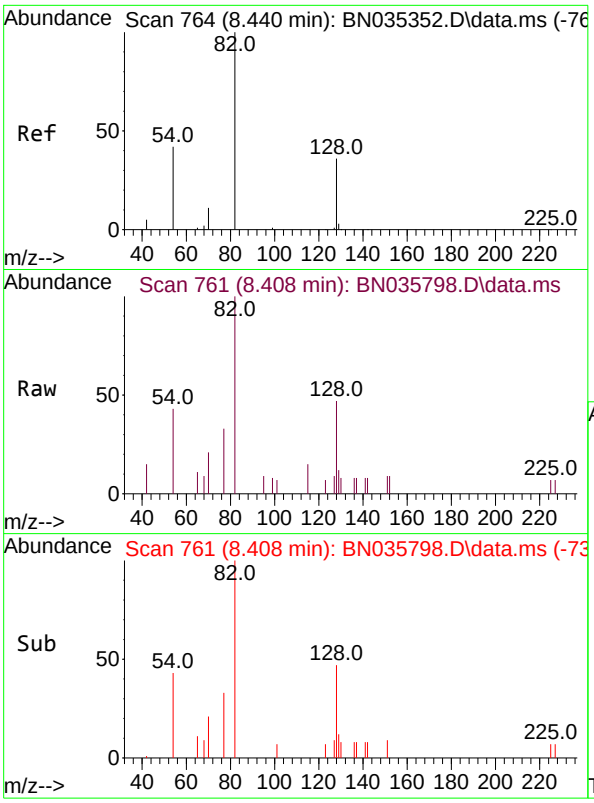


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:136 Resp: 7609

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	6.3	6.1	9.1
68	6.7	6.4	9.6

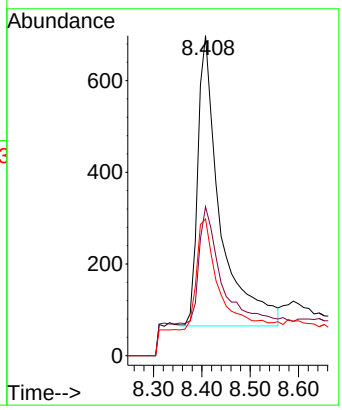




#8
Nitrobenzene-d5
Concen: 0.434 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion: 82 Resp: 201

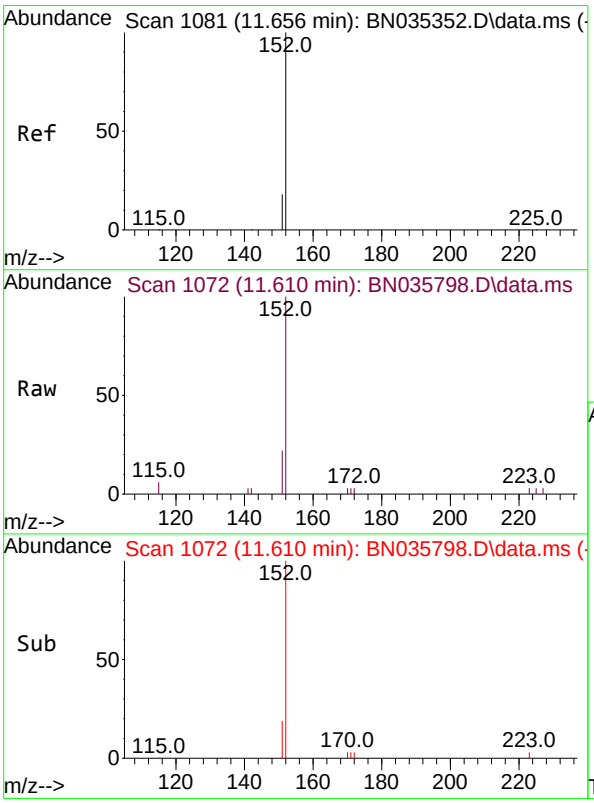
Ion	Ratio	Lower	Upper
82	100		
128	46.6	33.4	50.0
54	42.7	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

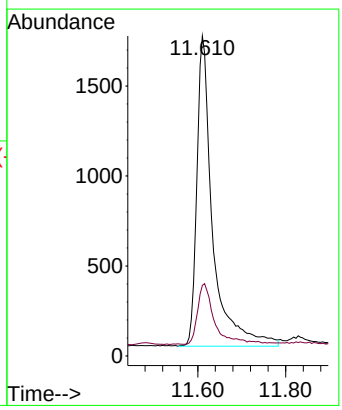
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

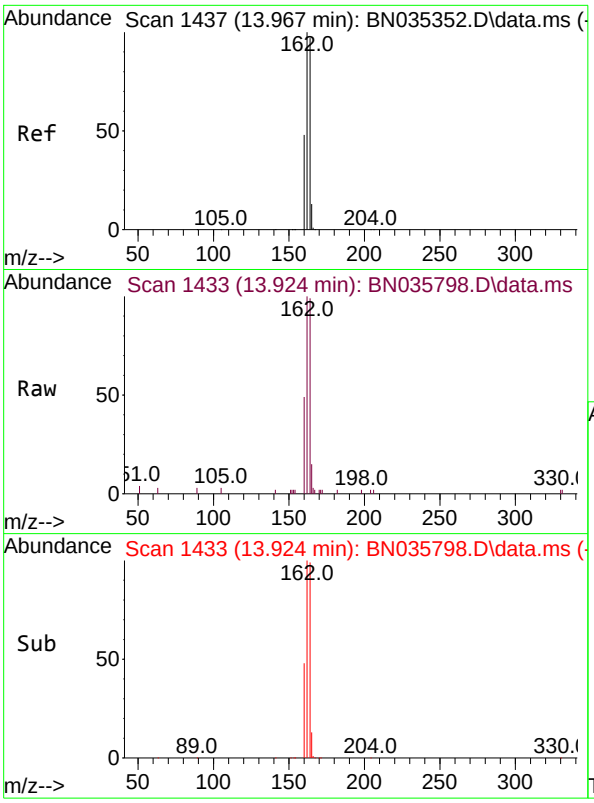


#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:152 Resp: 4327

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

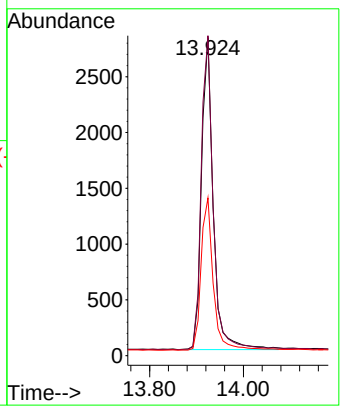




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:164 Resp: 486

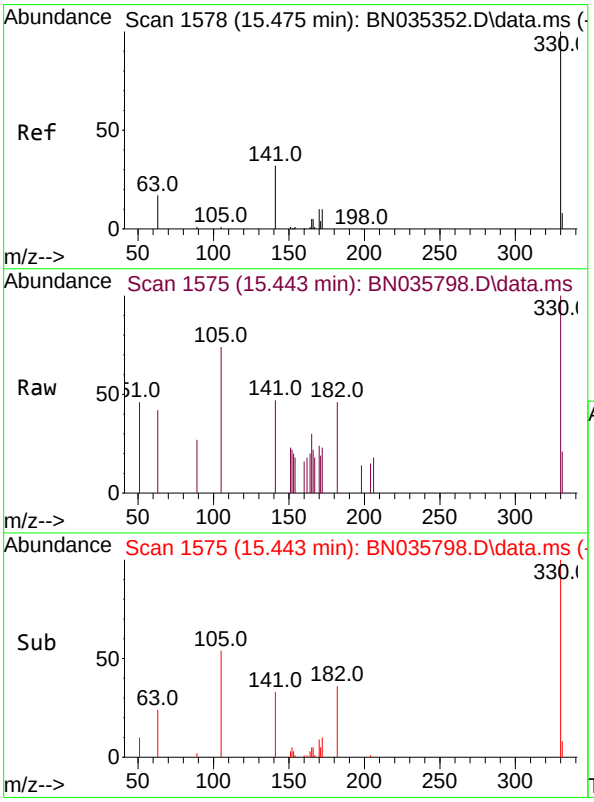
Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.2	123.2
160	49.6	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

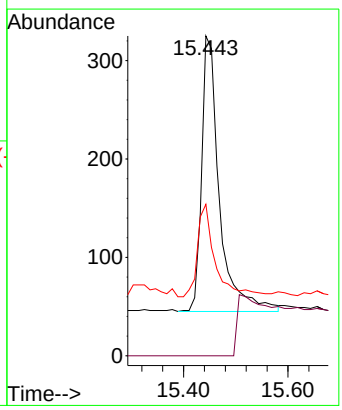
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

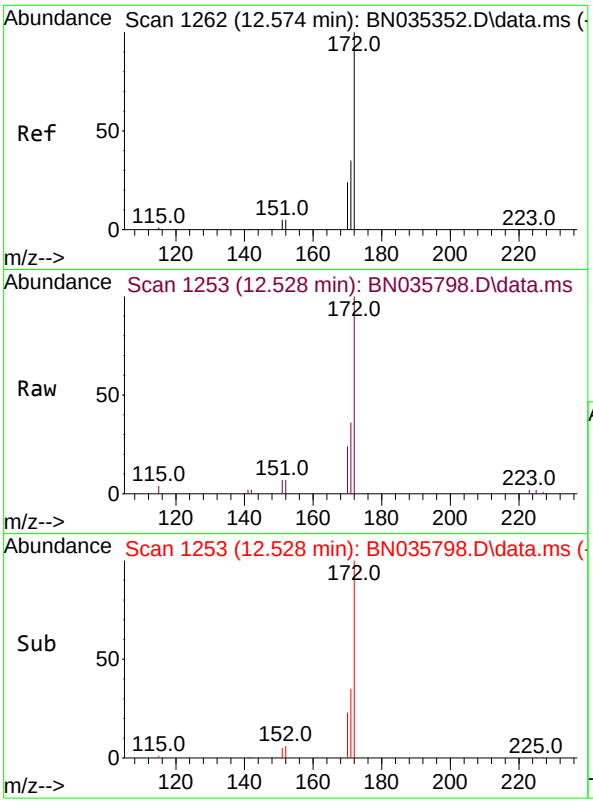


#14
2,4,6-Tribromophenol
Concen: 0.201 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:330 Resp: 695

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.7	26.6	40.0

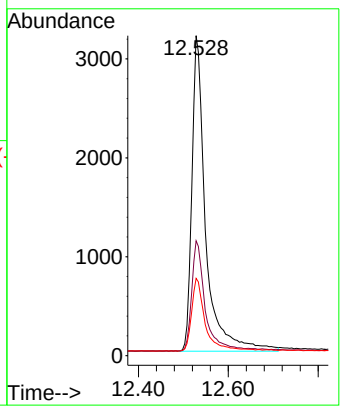




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:172 Resp: 679

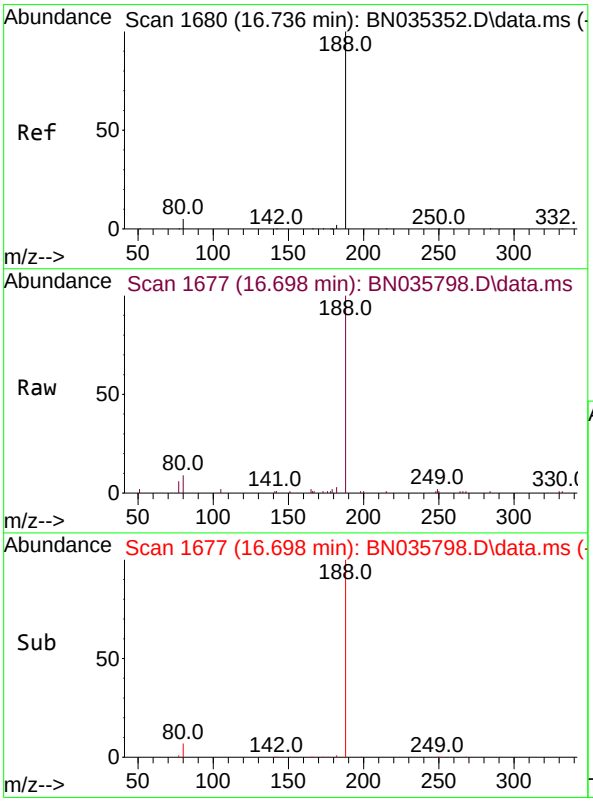
Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

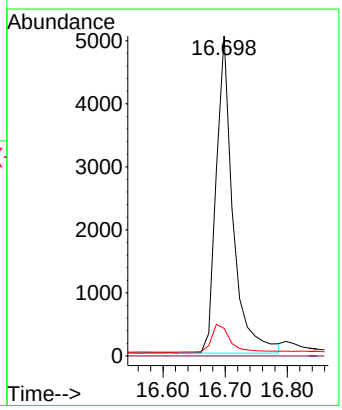
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

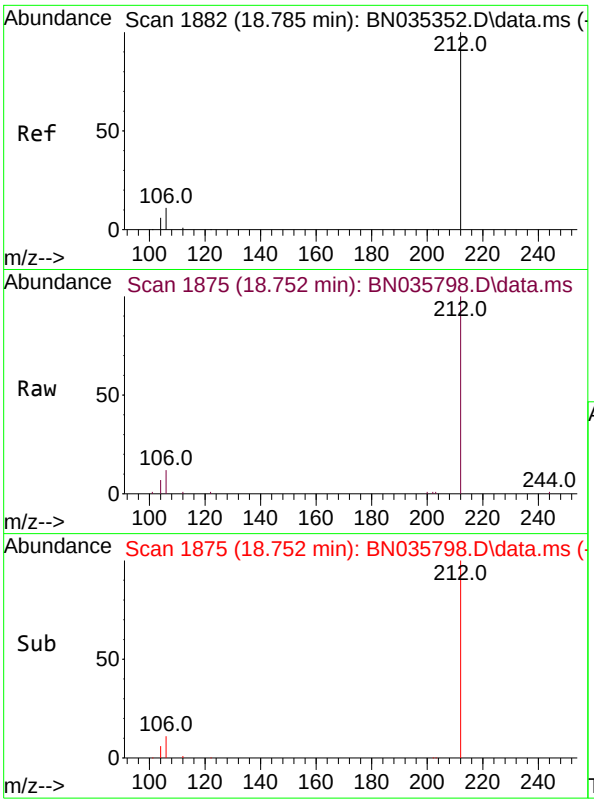


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:188 Resp: 9367

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#

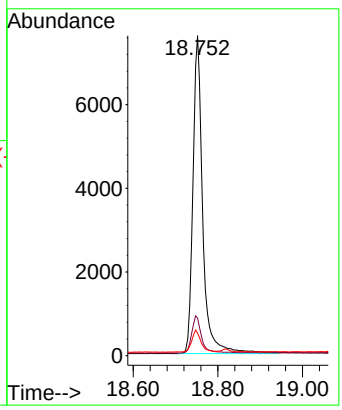




#27
Fluoranthene-d10
Concen: 0.462 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:212 Resp: 1226

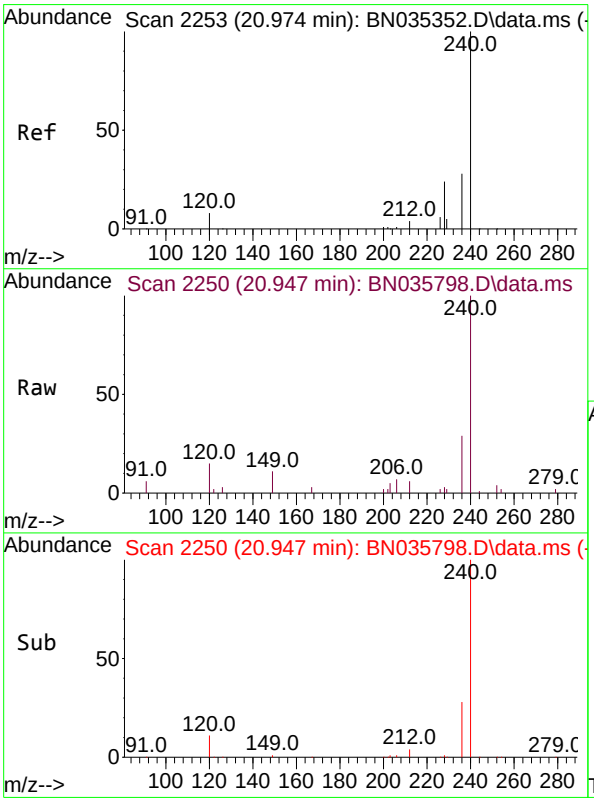
Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

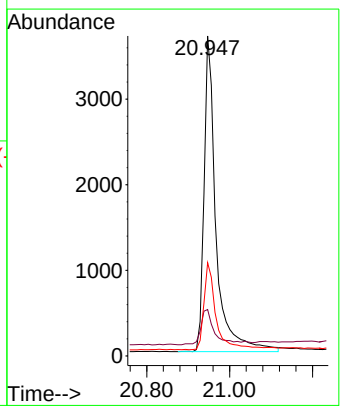
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

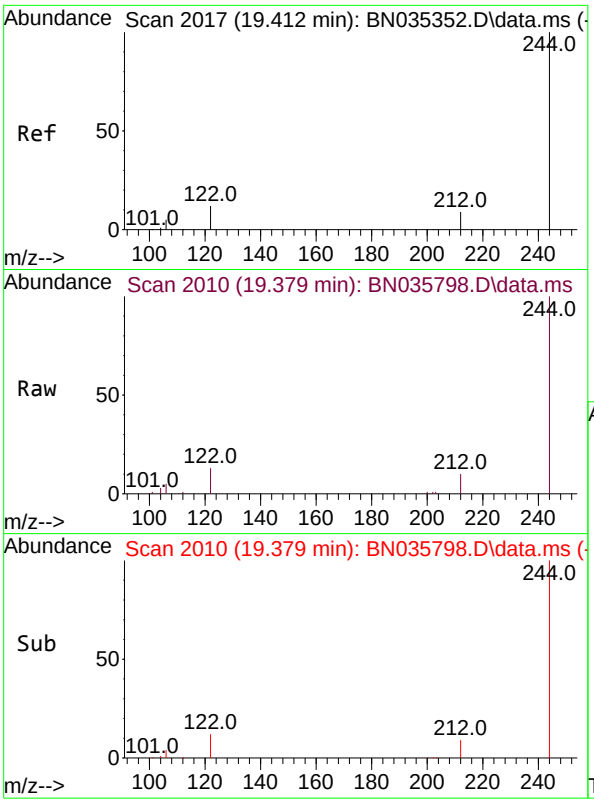


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:240 Resp: 7413

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.2	22.9	34.3

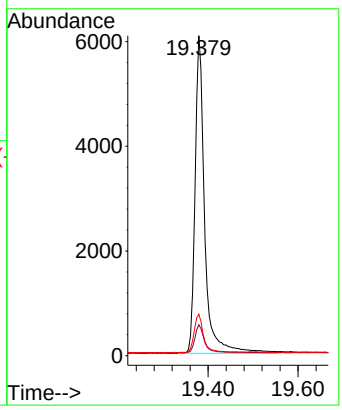




#31
Terphenyl-d14
Concen: 0.617 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:244 Resp: 901

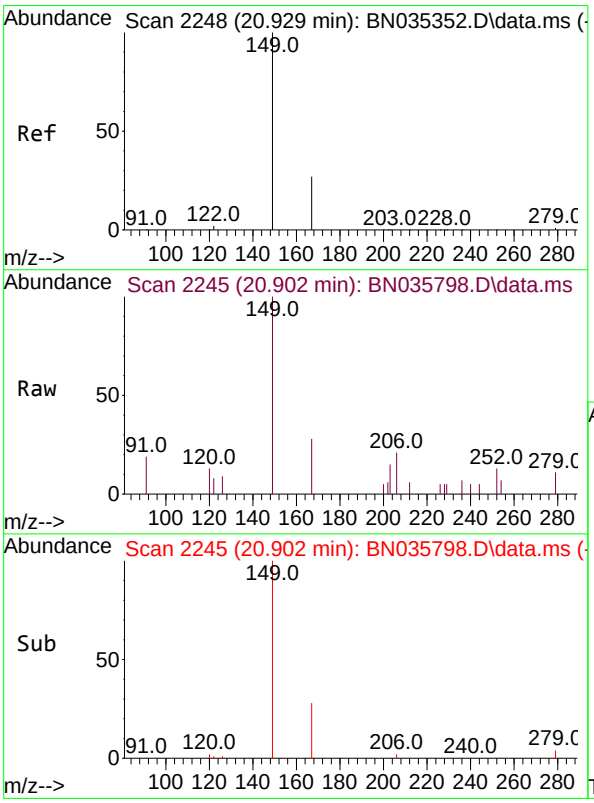
Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

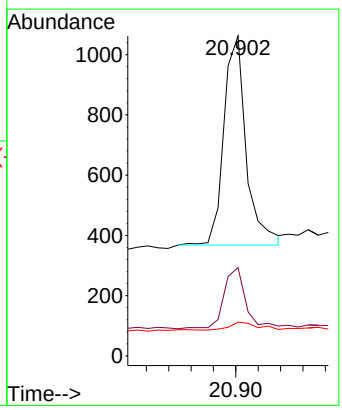
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

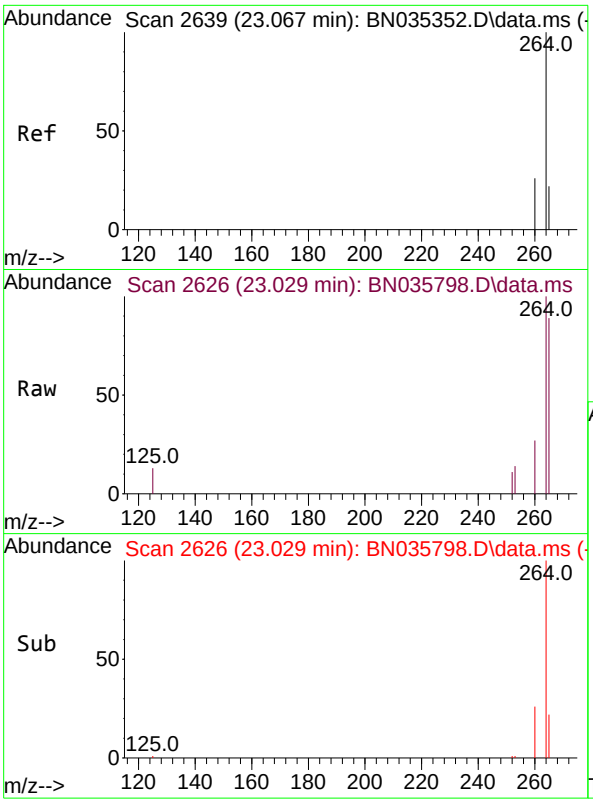


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:149 Resp: 962

Ion	Ratio	Lower	Upper
149	100		
167	29.8	22.2	33.4
279	4.9	2.7	4.1#

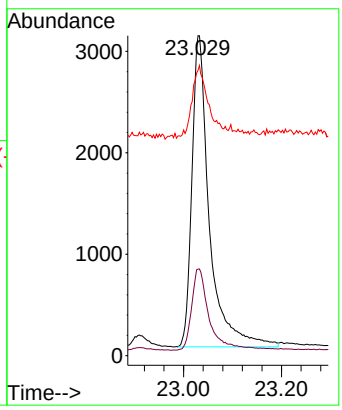




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:264 Resp: 762

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	89.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Raw Data: **BN035858.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213DL	SDG No.:	P5281
Lab Sample ID:	P5281-06DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035858.D	2	12/16/24 11:30	12/26/24 17:53	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.20	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.53		30 - 150		133%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.54	*	55 - 111		136%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.75	*	58 - 132		187%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2930	7.257				
1146-65-2	Naphthalene-d8	6900	9.999				
15067-26-2	Acenaphthene-d10	4610	13.914				
1517-22-2	Phenanthrene-d10	10100	16.698				
1719-03-5	Chrysene-d12	7380	20.947				
1520-96-3	Perylene-d12	6930	23.026				

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_N\Data\BN122624\
Data File : BN035858.D
Acq On : 26 Dec 2024 17:53
Operator : RC/JU
Sample : P5281-06DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:42:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2930	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	6901	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4611	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10065	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7379	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	6927	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	517	0.071	ng	-0.01
5) Phenol-d6	6.477	99	323	0.037	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1148m	0.272	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	2321	0.215	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	446	0.136	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	3712	0.213	ng	-0.02
27) Fluoranthene-d10	18.747	212	7627	0.267	ng	-0.01
31) Terphenyl-d14	19.375	244	5442	0.374	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	9945	3.550	ng	99
6) bis(2-Chloroethyl)ether	6.716	93	235	0.032	ng	93
34) Bis(2-ethylhexyl)phtha...	20.893	149	826	0.081	ng	# 87

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

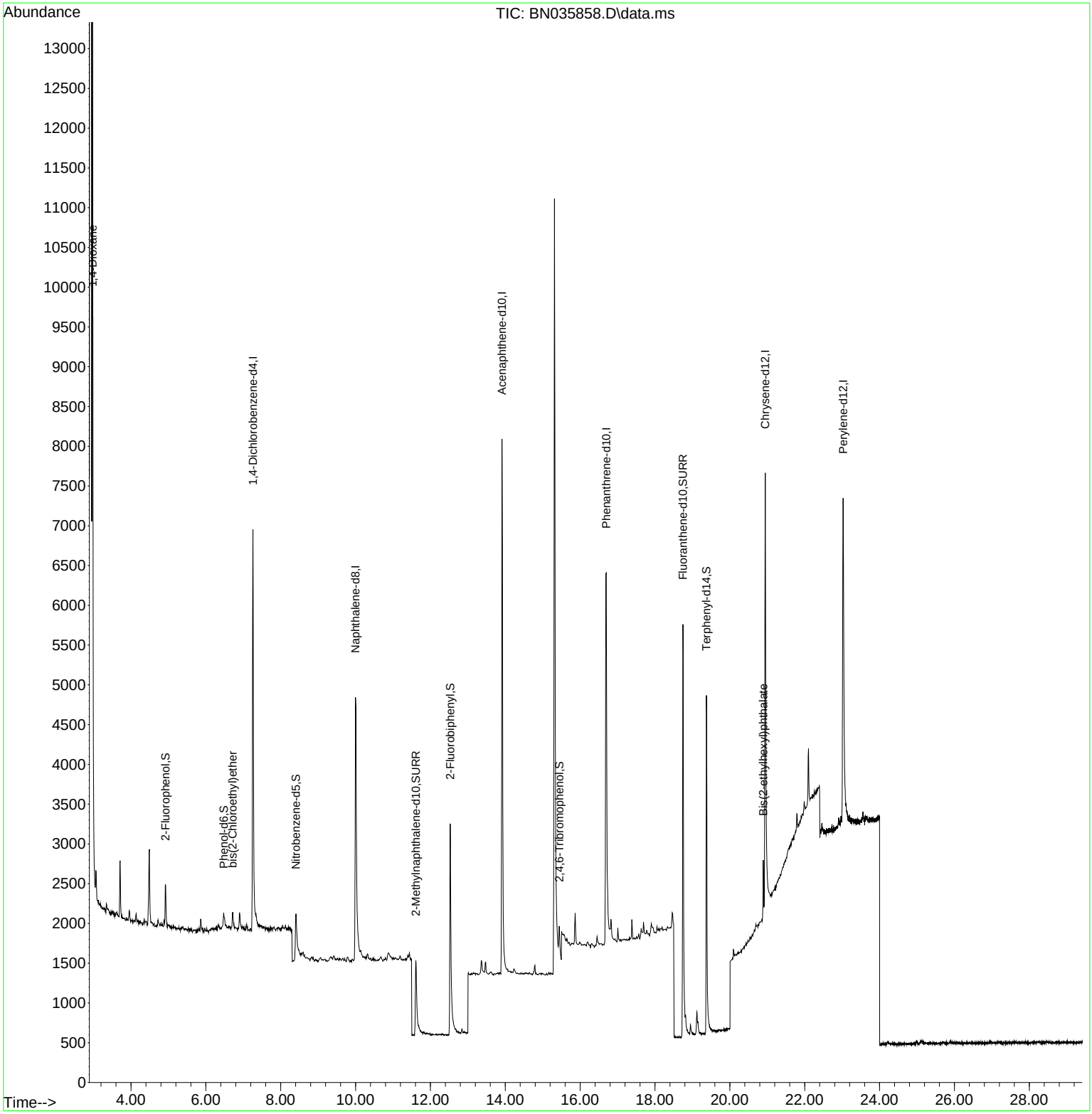
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035858.D
Acq On : 26 Dec 2024 17:53
Operator : RC/JU
Sample : P5281-06DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

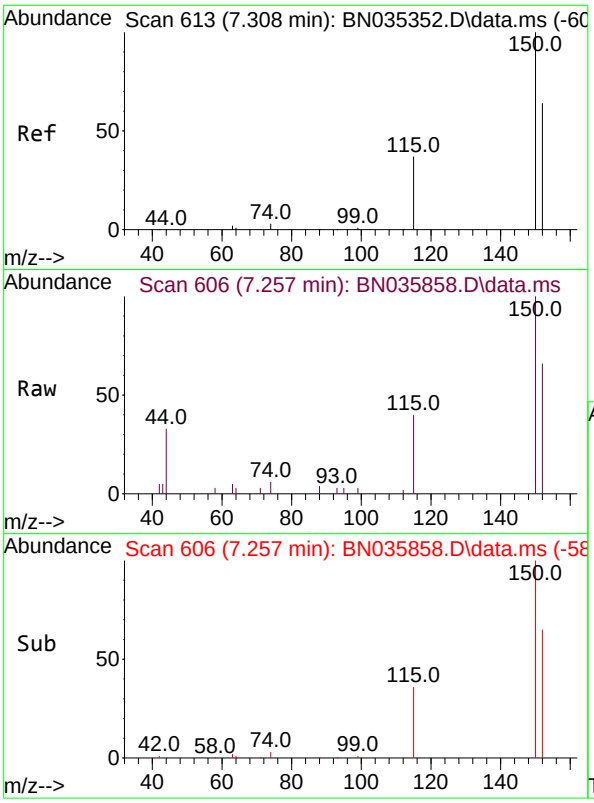
Quant Time: Dec 27 00:42:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

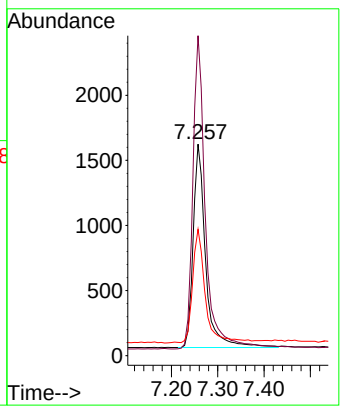




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:152 Resp: 293(

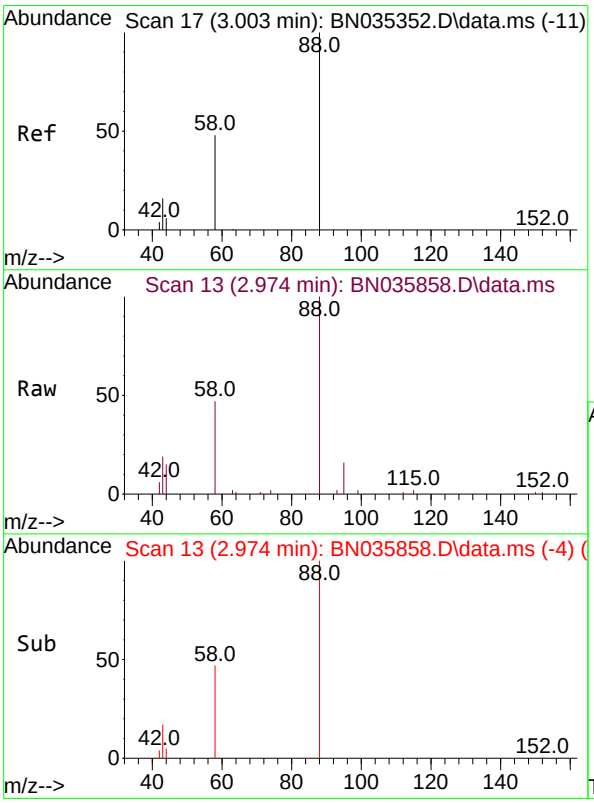
Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.0	186.0
115	59.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

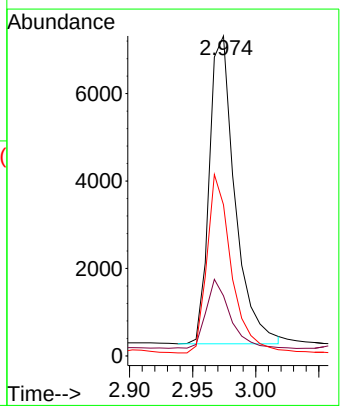
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

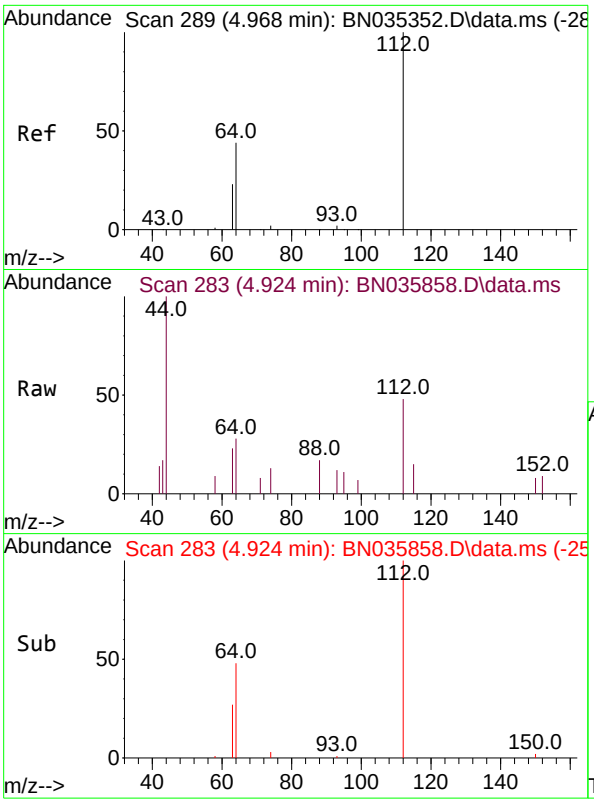


#2
1,4-Dioxane
Concen: 3.550 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion: 88 Resp: 9945

Ion	Ratio	Lower	Upper
88	100		
43	20.8	17.2	25.8
58	55.2	44.5	66.7





#4
2-Fluorophenol
Concen: 0.071 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

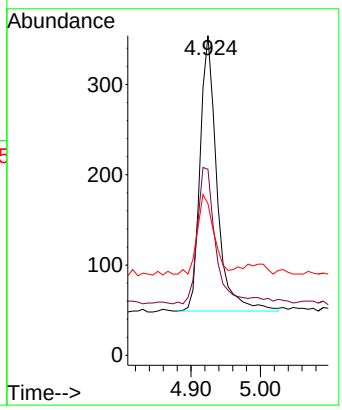
Tgt Ion:112 Resp: 51

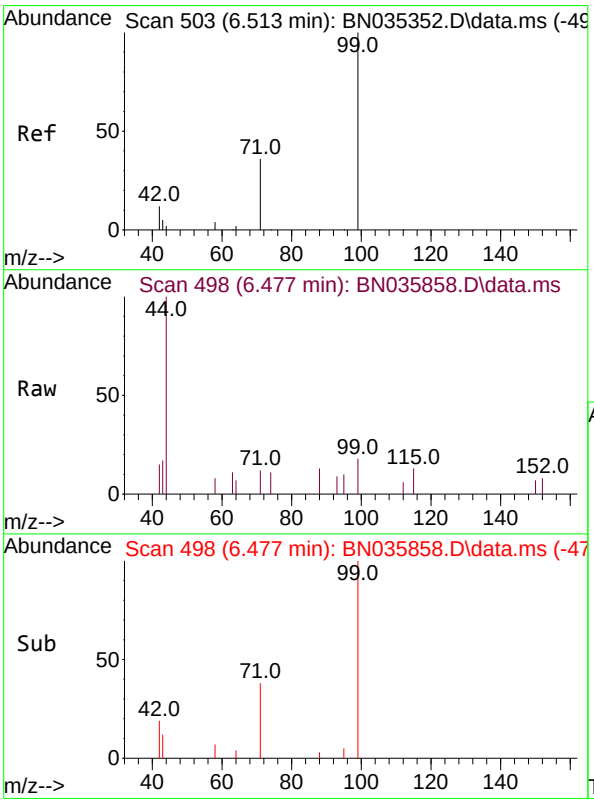
Ion	Ratio	Lower	Upper
112	100		
64	52.6	39.8	59.8
63	28.0	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

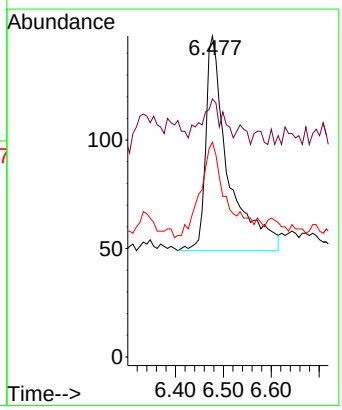


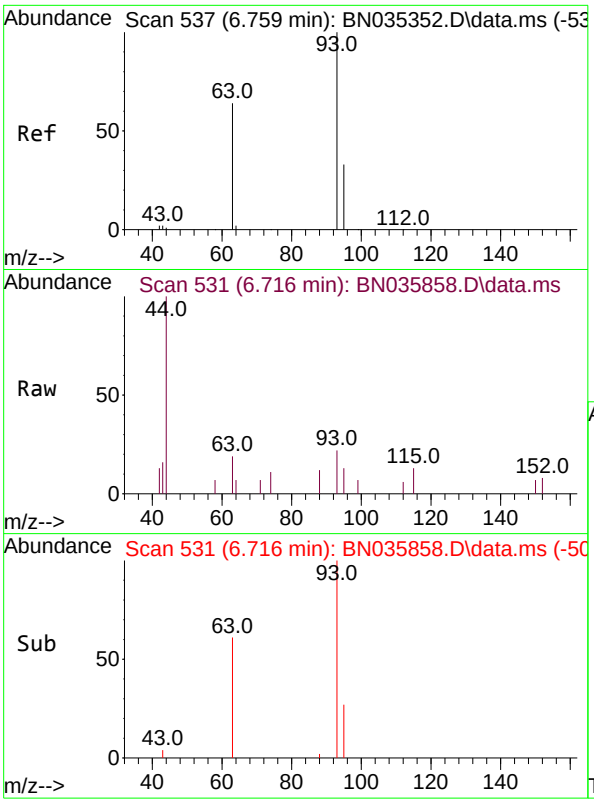


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion: 99 Resp: 323

Ion	Ratio	Lower	Upper
99	100		
42	22.0	11.4	17.2#
71	50.8	29.3	43.9#

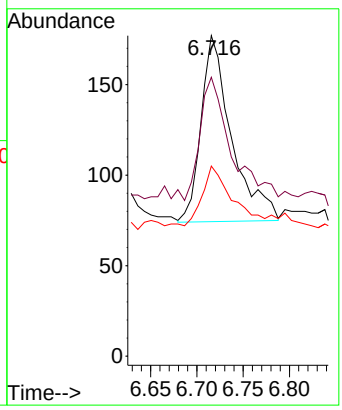




#6
bis(2-Chloroethyl)ether
Concen: 0.032 ng
RT: 6.716 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion: 93 Resp: 23

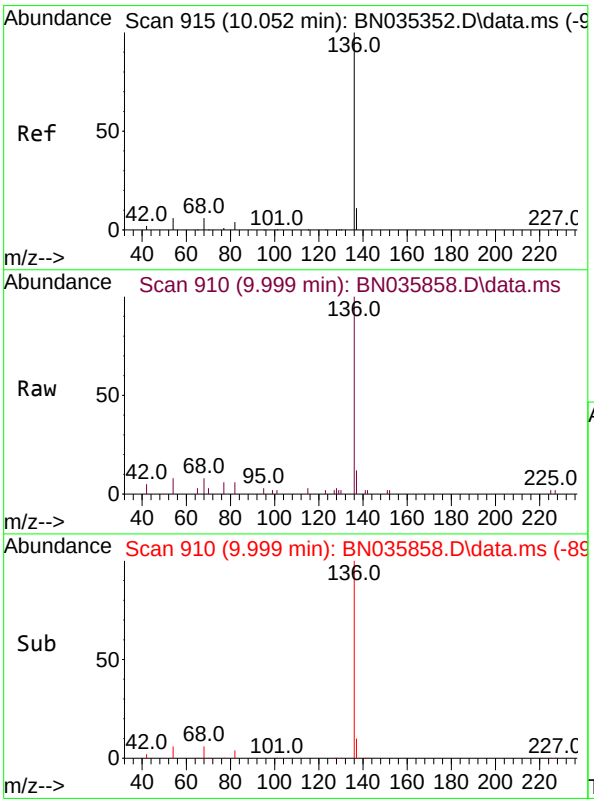
Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.4	75.6
95	31.5	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

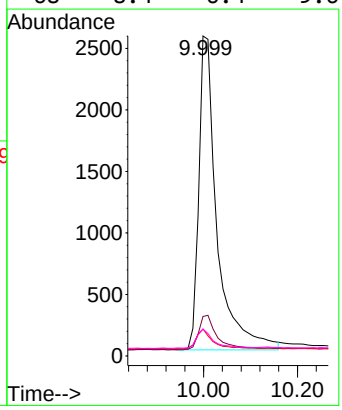
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

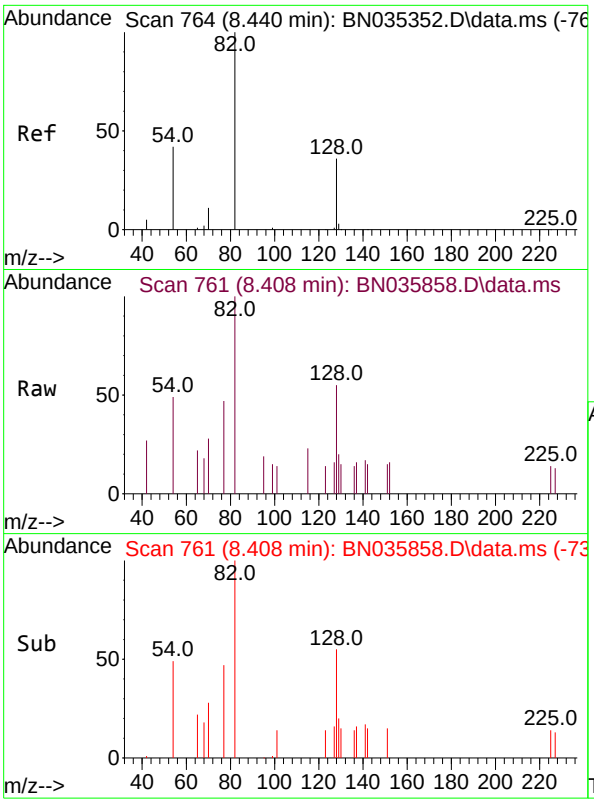


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.021 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:136 Resp: 6901

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	8.4	6.1	9.1
68	8.4	6.4	9.6

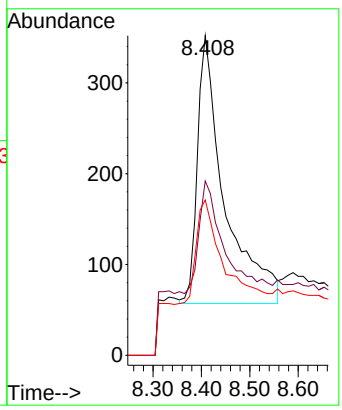




#8
Nitrobenzene-d5
Concen: 0.272 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion: 82 Resp: 114

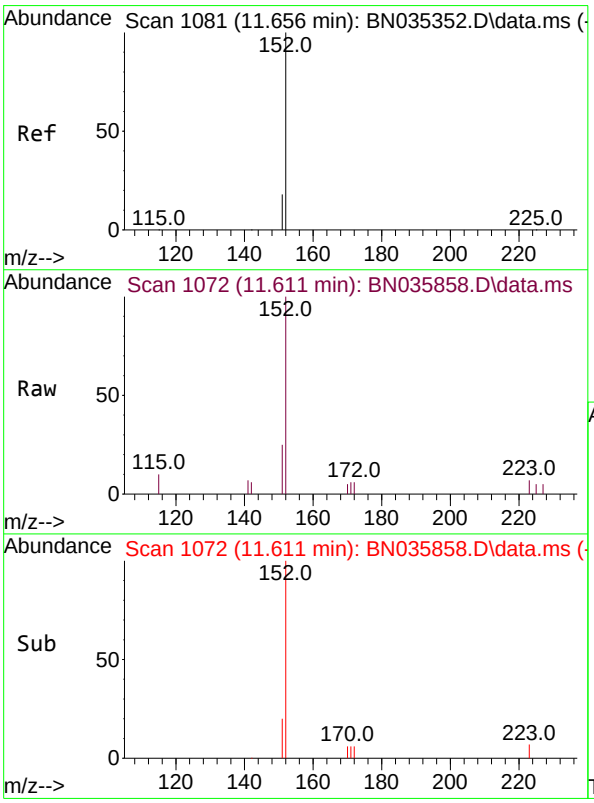
Ion	Ratio	Lower	Upper
82	100		
128	54.5	33.4	50.0
54	48.6	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

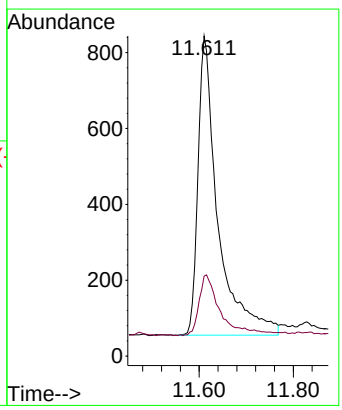
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

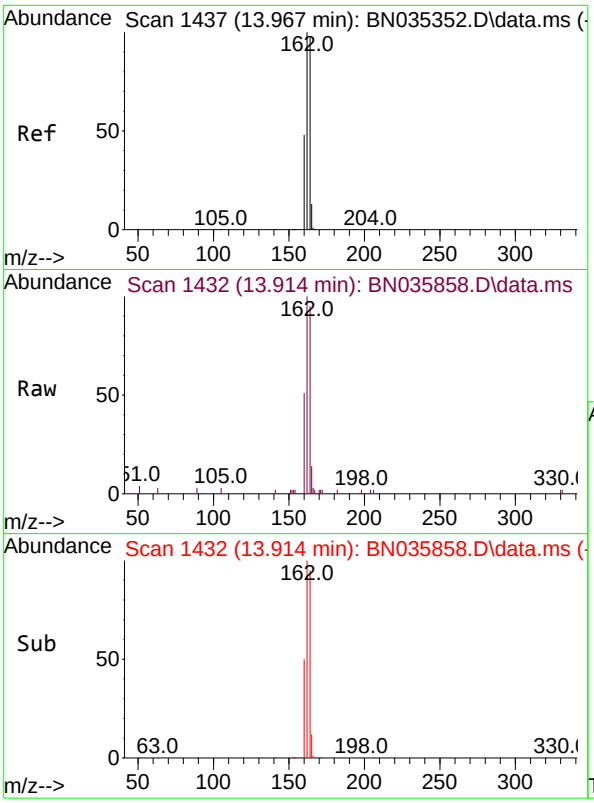


#11
2-Methylnaphthalene-d10
Concen: 0.215 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:152 Resp: 2321

Ion	Ratio	Lower	Upper
152	100		
151	22.1	16.6	25.0

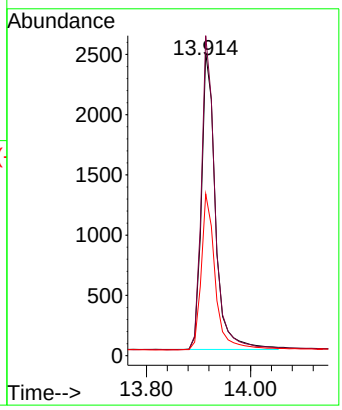




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:164 Resp: 461

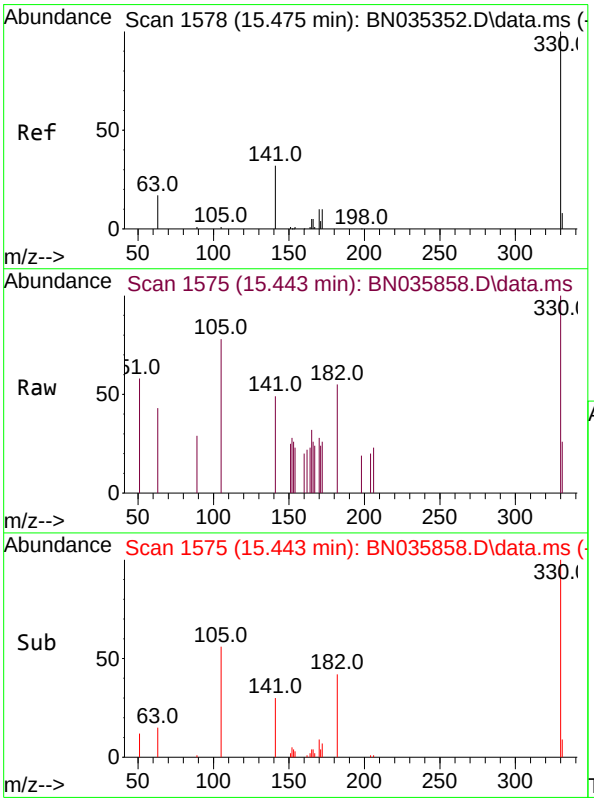
Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.2
160	53.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

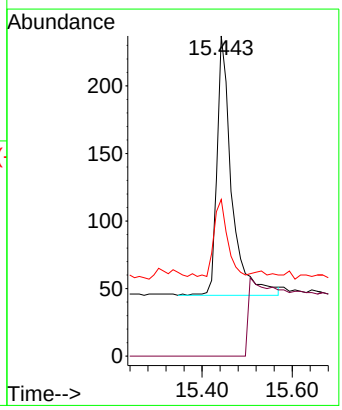
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

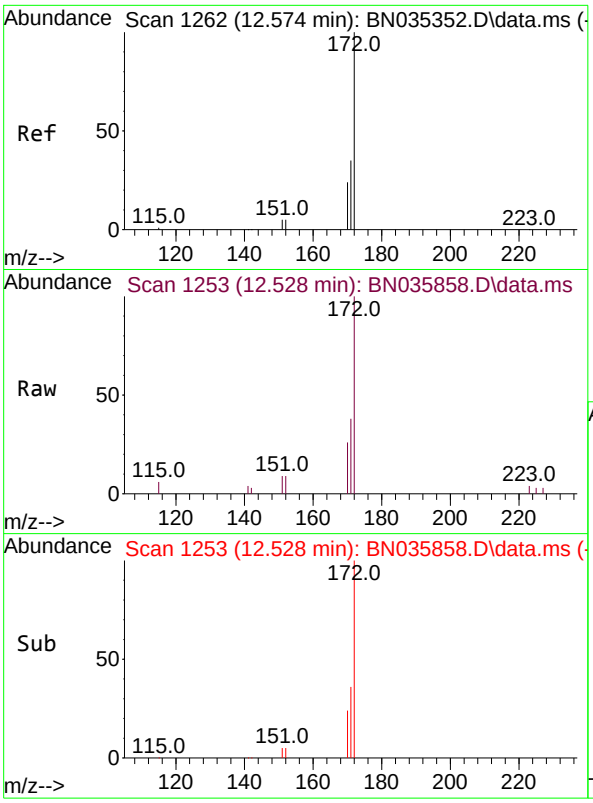


#14
2,4,6-Tribromophenol
Concen: 0.136 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:330 Resp: 446

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.2	26.6	40.0#

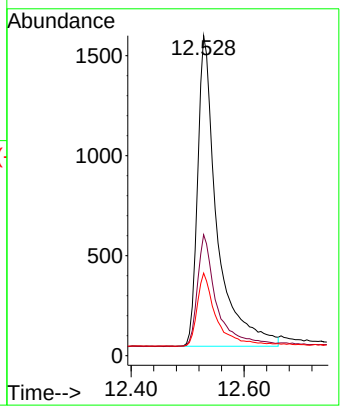




#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:172 Resp: 371

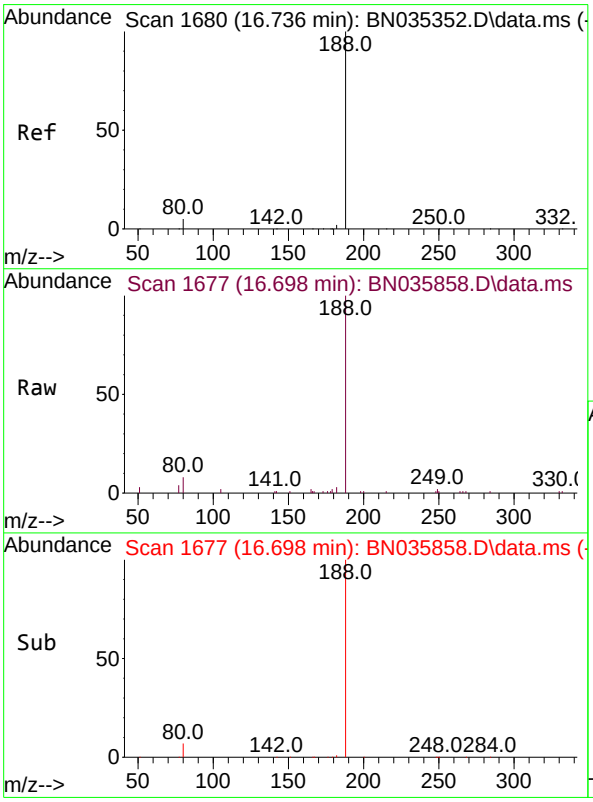
Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.0	43.4
170	25.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

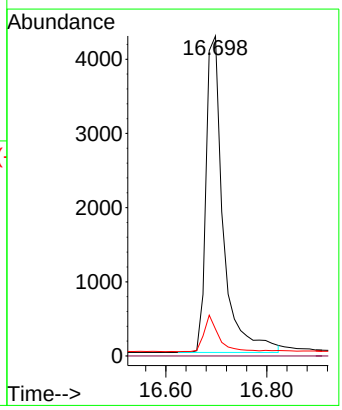
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

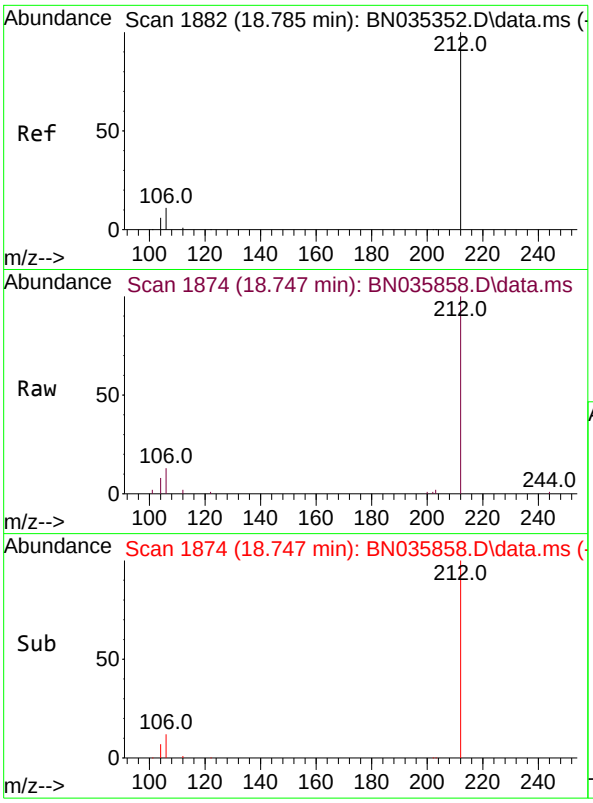


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:188 Resp: 10065

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.6	6.8#

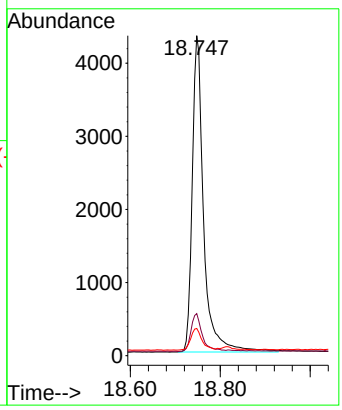




#27
Fluoranthene-d10
Concen: 0.267 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:212 Resp: 762

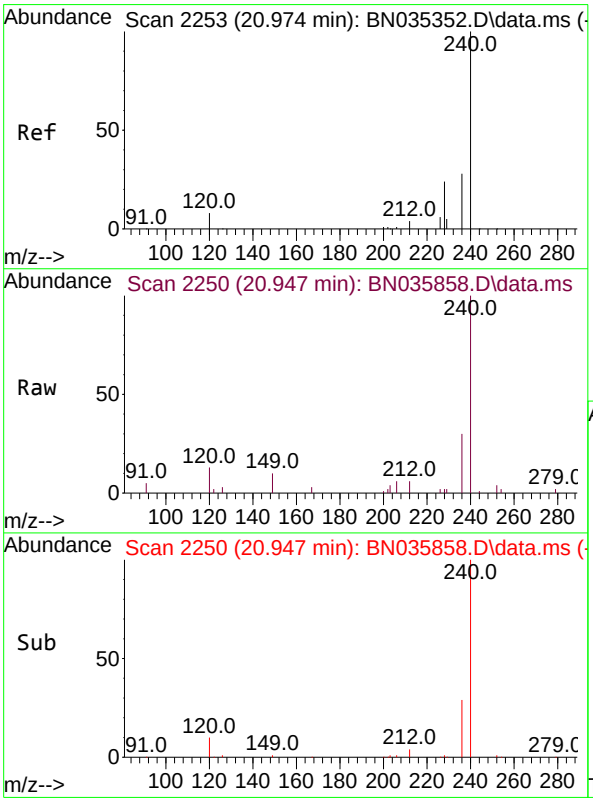
Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

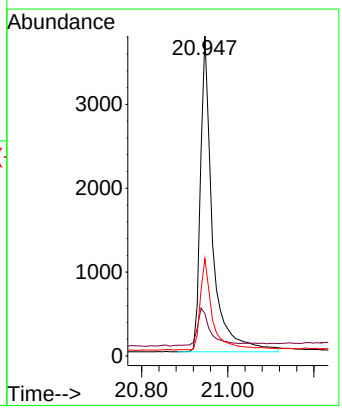
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

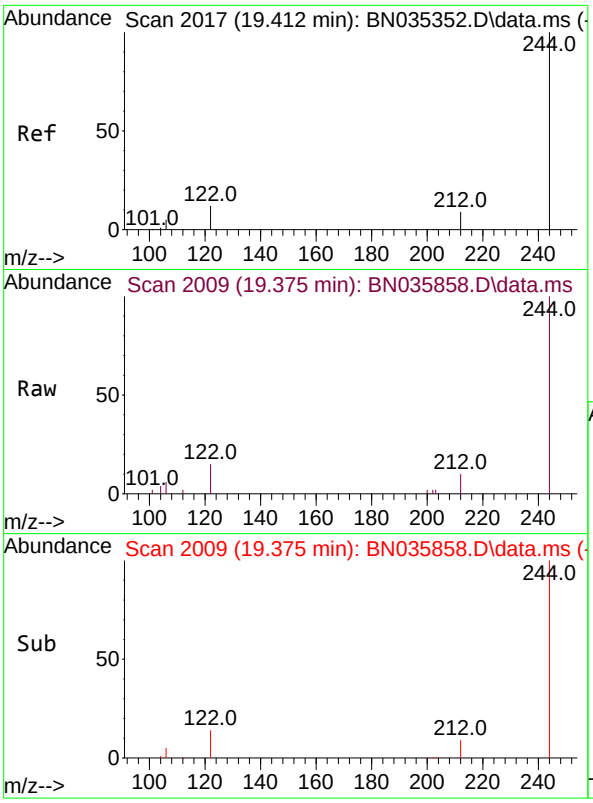


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:240 Resp: 7379

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	30.5	22.9	34.3

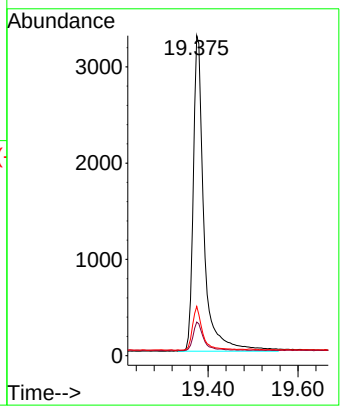




#31
Terphenyl-d14
Concen: 0.374 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:244 Resp: 544

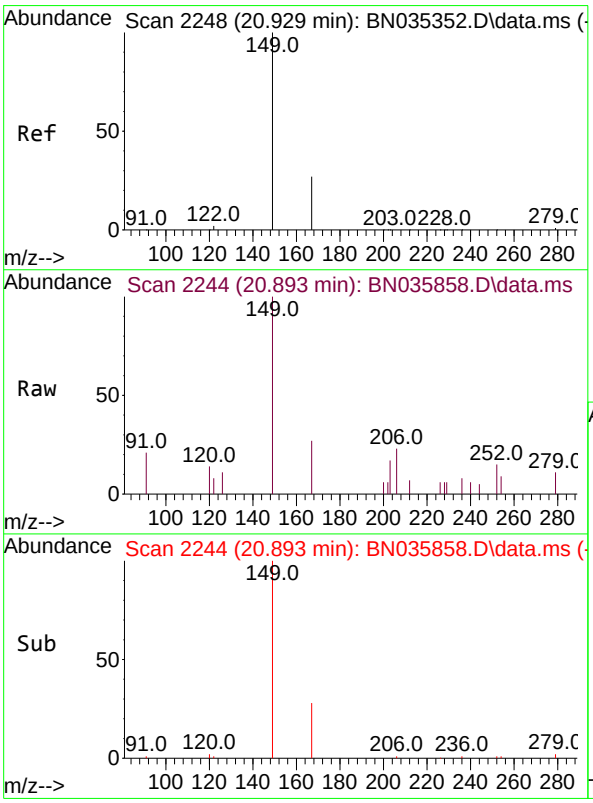
Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	15.4	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

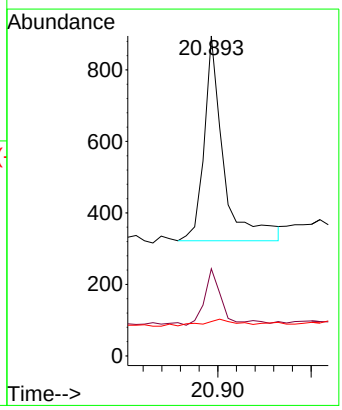
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

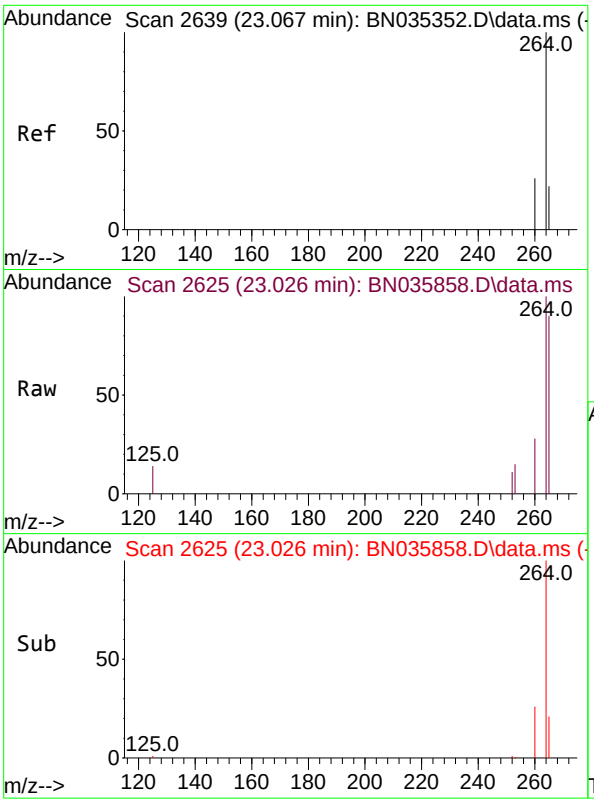


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.081 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:149 Resp: 826

Ion	Ratio	Lower	Upper
149	100		
167	20.6	22.2	33.4#
279	5.3	2.7	4.1#

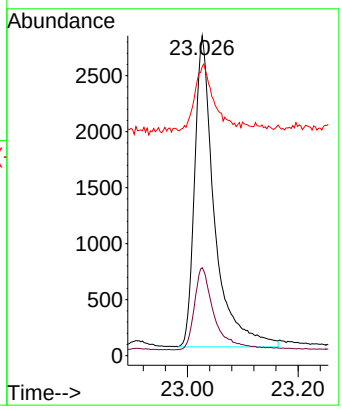




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:264 Resp: 692

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	90.4	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Raw Data: **BN035799.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT189D2-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	880 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035799.D	1	12/16/24 11:30	12/24/24 01:14	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	E	0.080	0.23	0.23	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		146%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3280	7.264				
1146-65-2	Naphthalene-d8	7720	10.009				
15067-26-2	Acenaphthene-d10	4880	13.924				
1517-22-2	Phenanthrene-d10	10200	16.698				
1719-03-5	Chrysene-d12	8370	20.947				
1520-96-3	Perylene-d12	8290	23.029				

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

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

Sample Results: **BN035799.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035799.D
Acq On : 24 Dec 2024 01:14
Operator : RC/JU
Sample : P5281-07
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 01:46:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3279	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7719	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4881	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8372	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	8287	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	984	0.120	ng	0.00
5) Phenol-d6	6.477	99	549	0.056	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1932m	0.410	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4063	0.336	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	709	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	6383	0.346	ng	-0.01
27) Fluoranthene-d10	18.752	212	12744	0.443	ng	0.00
31) Terphenyl-d14	19.379	244	9635	0.583	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	18372	5.861	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	1405	0.121	ng	# 96

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

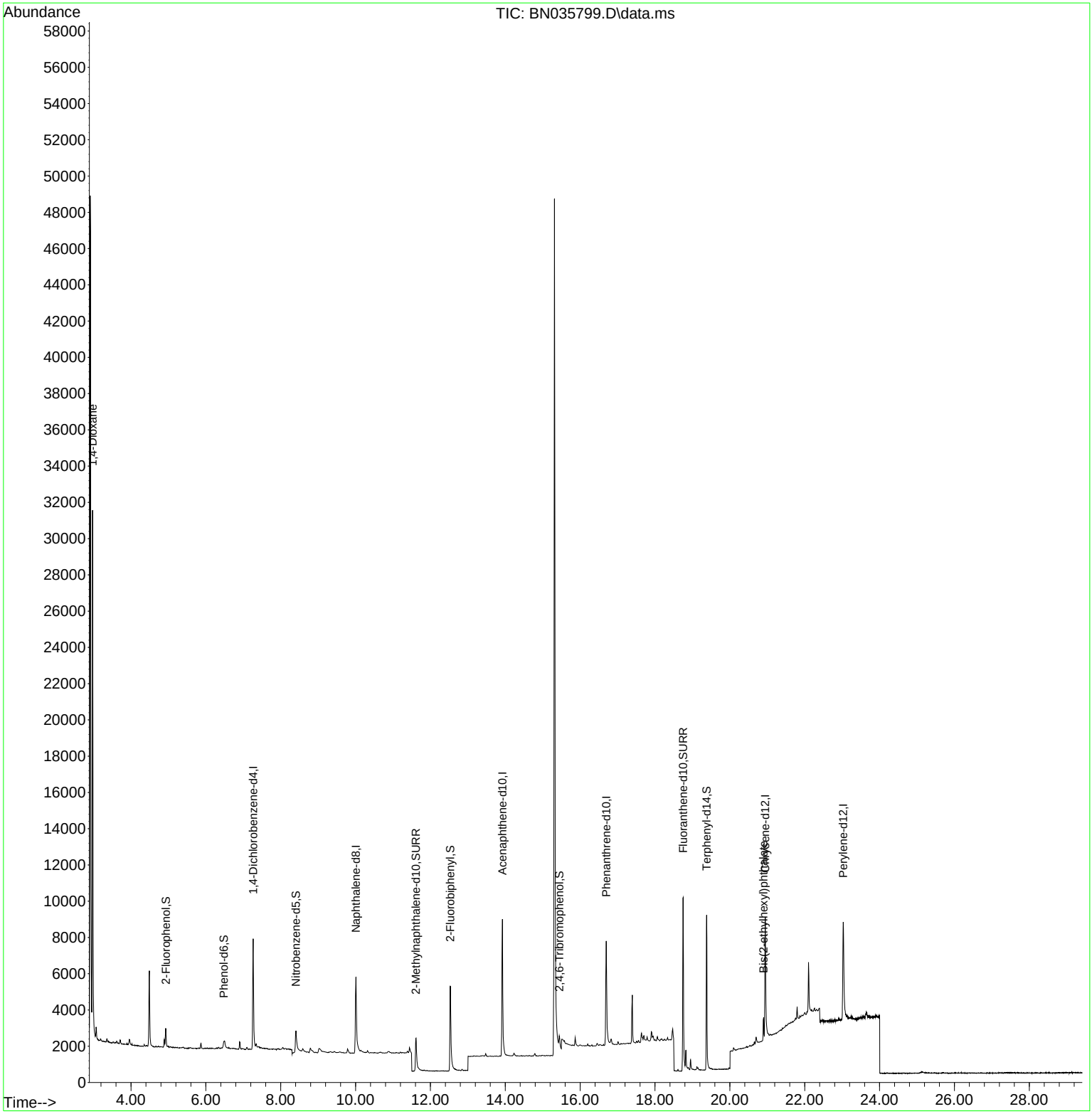
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035799.D
Acq On : 24 Dec 2024 01:14
Operator : RC/JU
Sample : P5281-07
Misc :
ALS Vial : 81 Sample Multiplier: 1

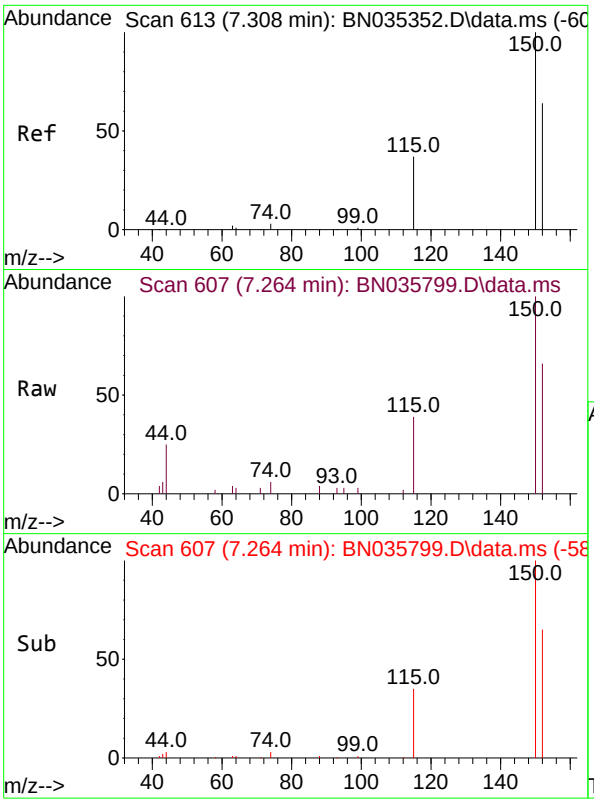
Quant Time: Dec 24 01:46:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

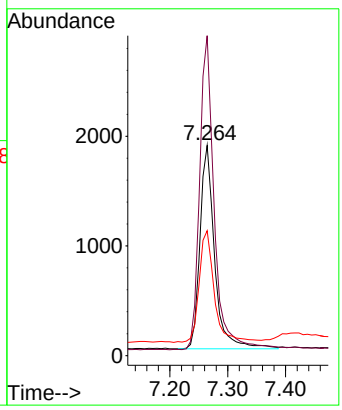




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:152 Resp: 327

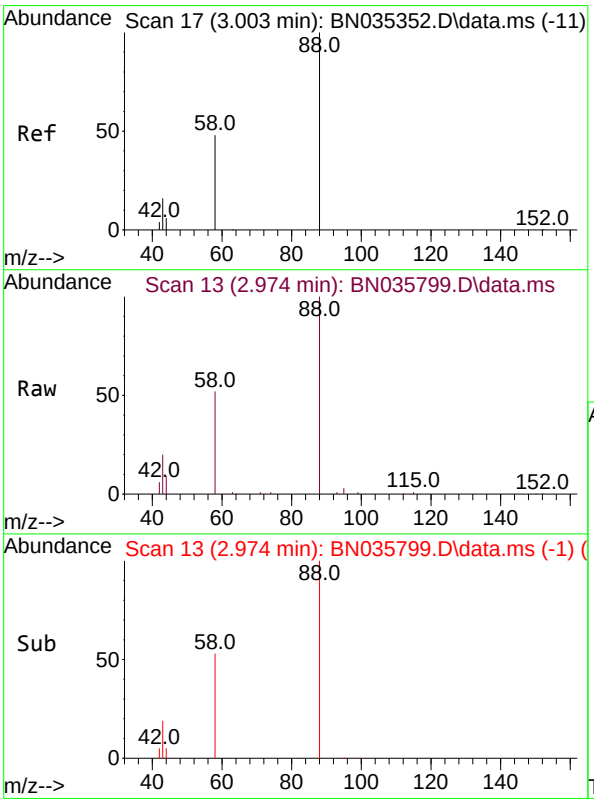
Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.0	186.0
115	59.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

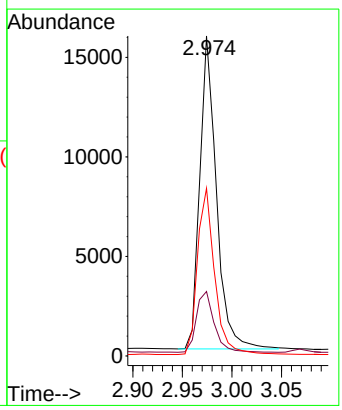
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

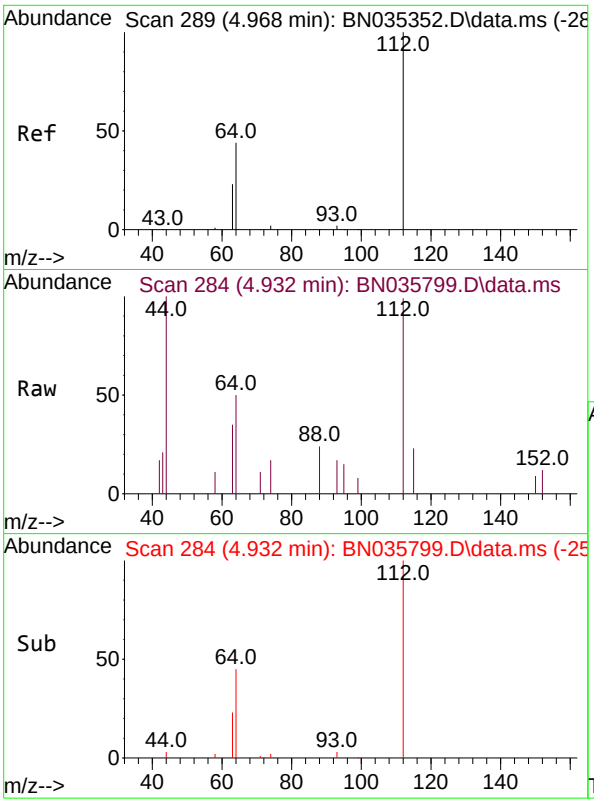


#2
1,4-Dioxane
Concen: 5.861 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion: 88 Resp: 18372

Ion	Ratio	Lower	Upper
88	100		
43	20.9	17.2	25.8
58	54.9	44.5	66.7





#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

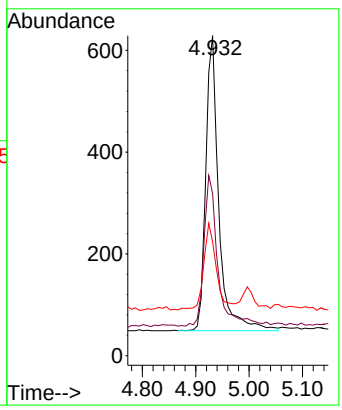
Tgt Ion:112 Resp: 98

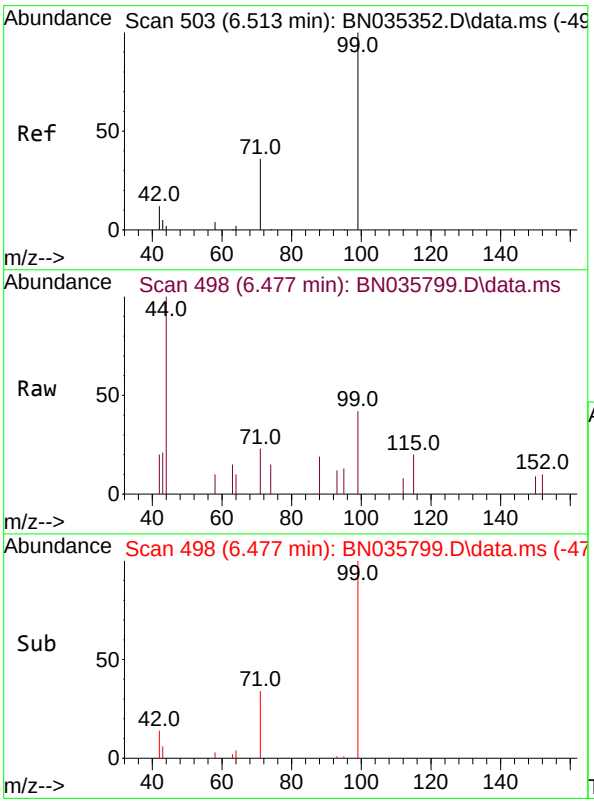
Ion	Ratio	Lower	Upper
112	100		
64	54.6	39.8	59.8
63	28.0	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

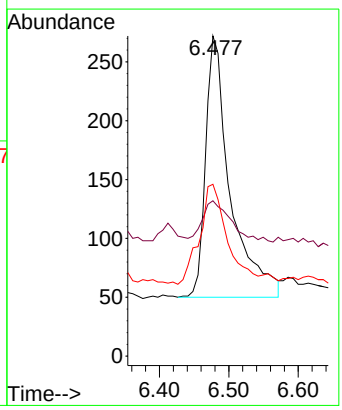


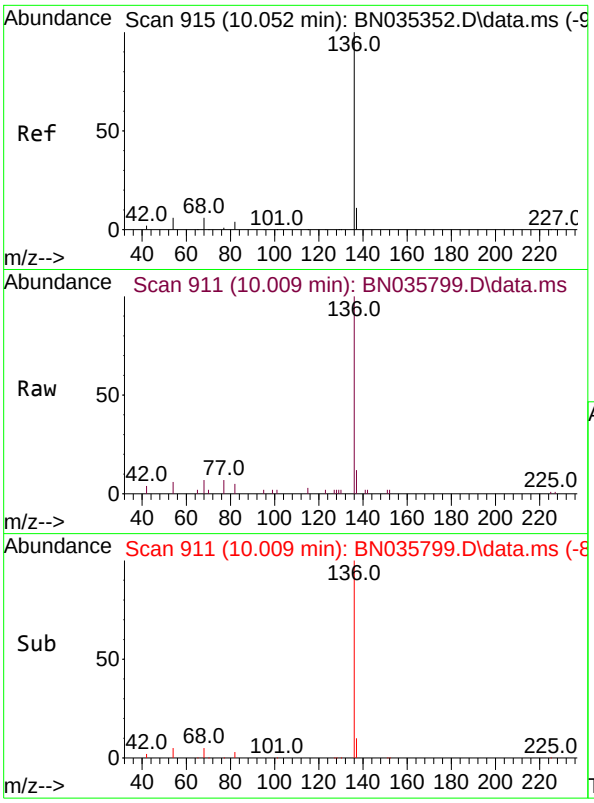


#5
Phenol-d6
Concen: 0.056 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion: 99 Resp: 549

Ion	Ratio	Lower	Upper
99	100		
42	18.9	11.4	17.2#
71	43.0	29.3	43.9

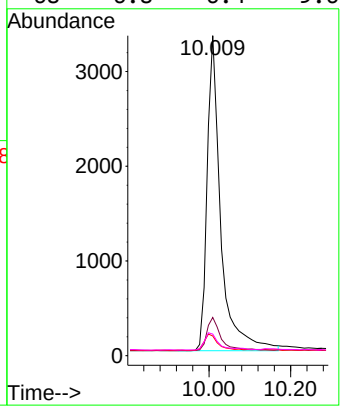




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:136 Resp: 771

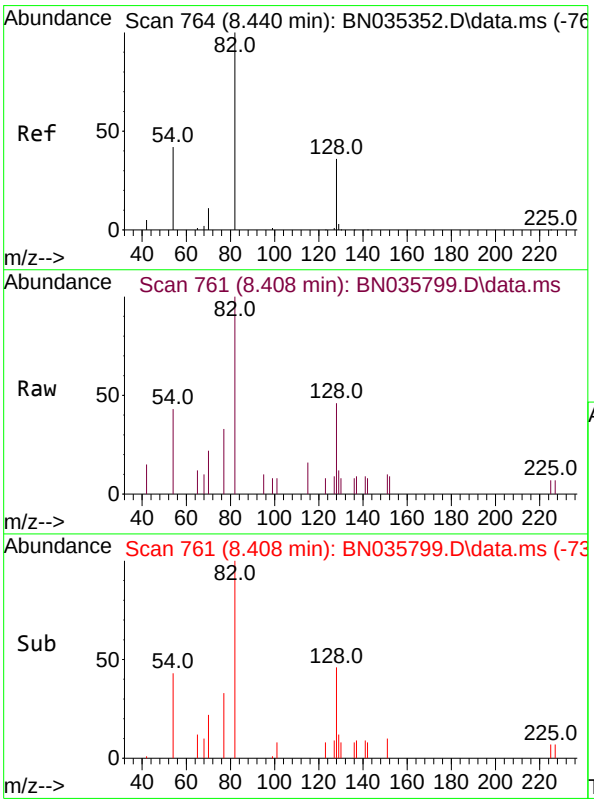
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.2	6.1	9.1
68	6.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

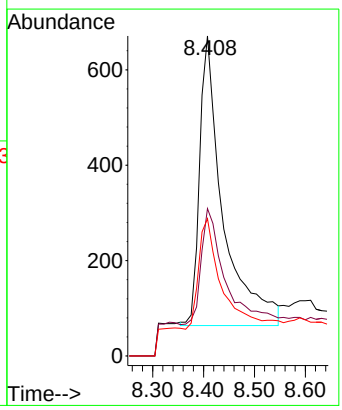
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

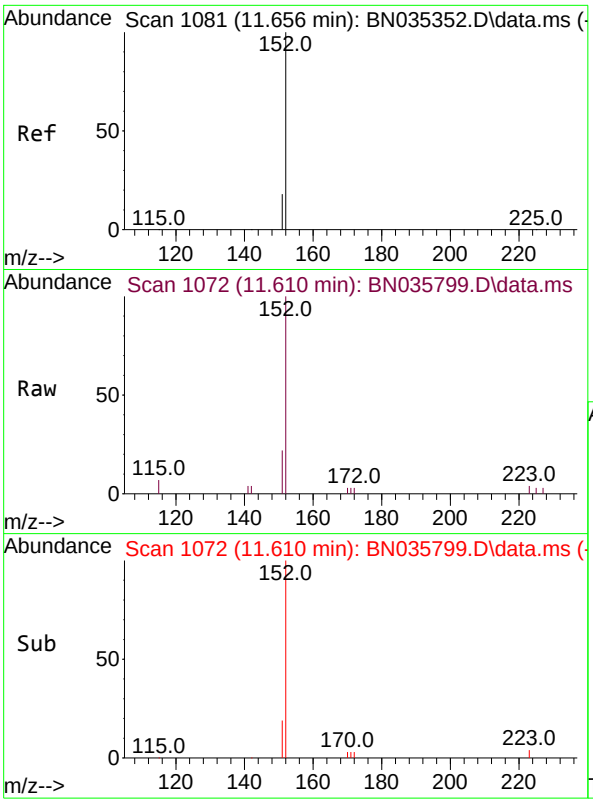


#8
Nitrobenzene-d5
Concen: 0.410 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion: 82 Resp: 1932

Ion	Ratio	Lower	Upper
82	100		
128	46.1	33.4	50.0
54	42.9	36.7	55.1

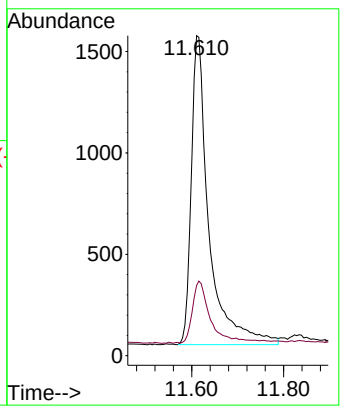




#11
2-Methylnaphthalene-d10
Concen: 0.336 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:152 Resp: 406

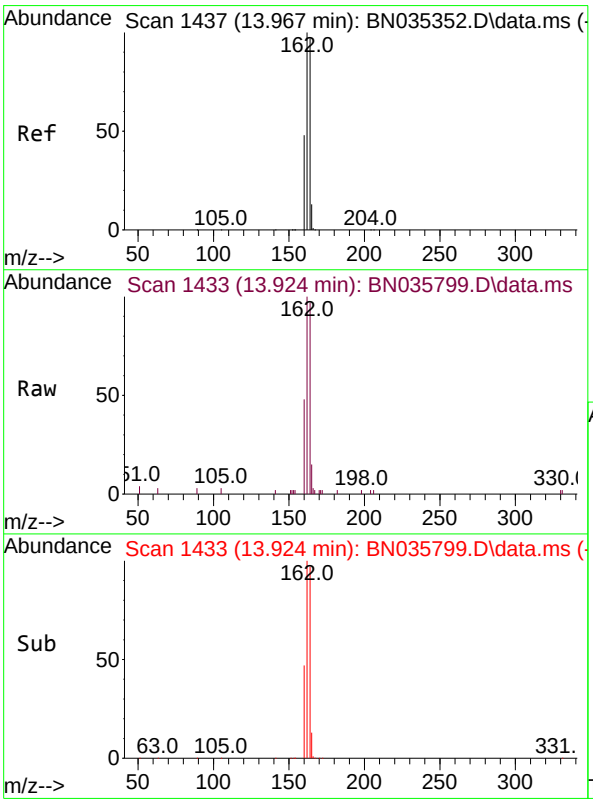
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

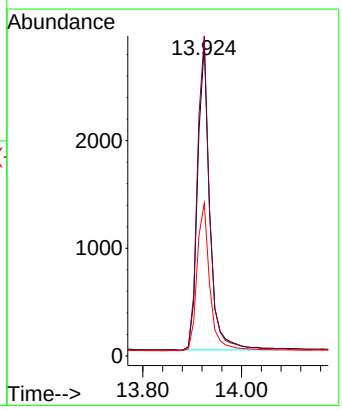
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

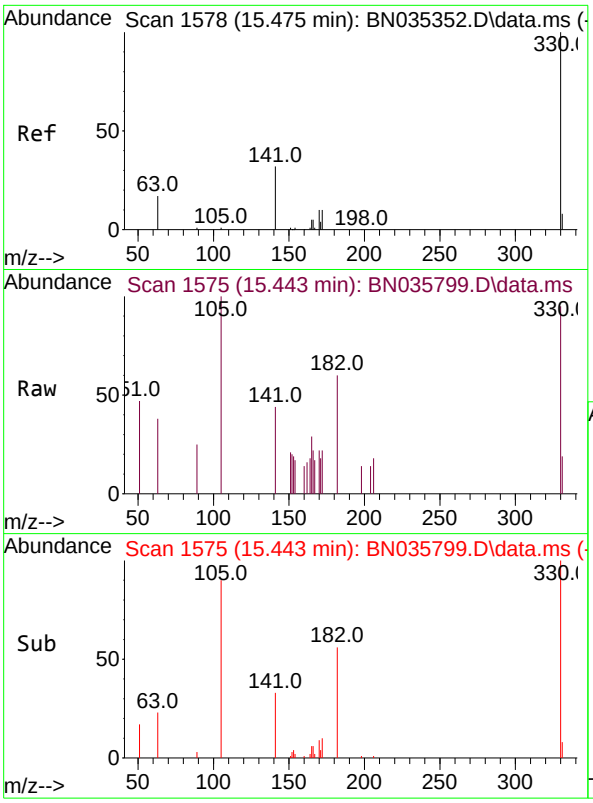


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:164 Resp: 4881

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	49.1	40.1	60.1

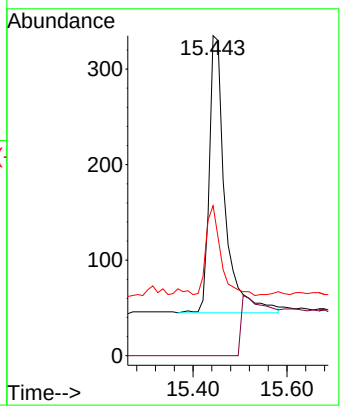




#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:330 Resp: 709

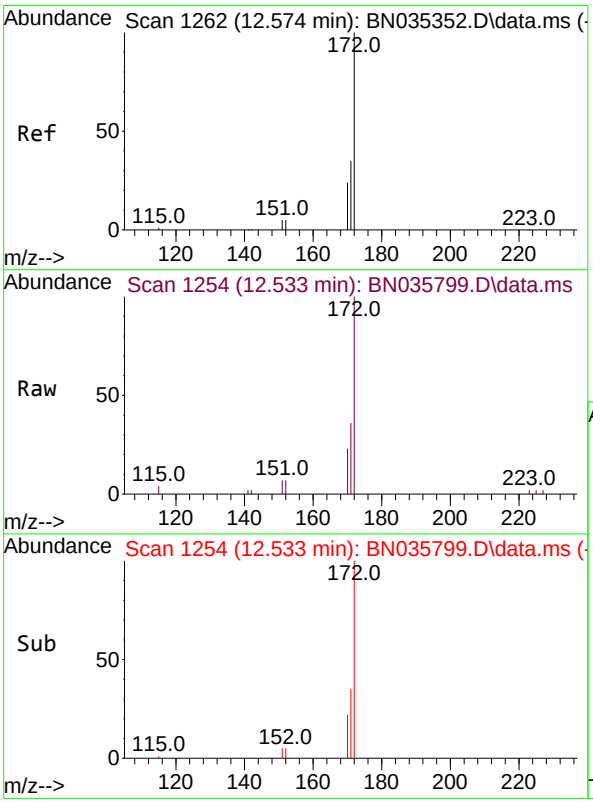
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.8	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

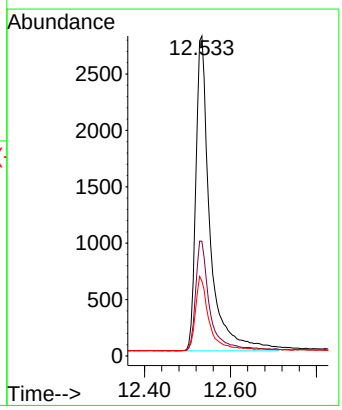
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

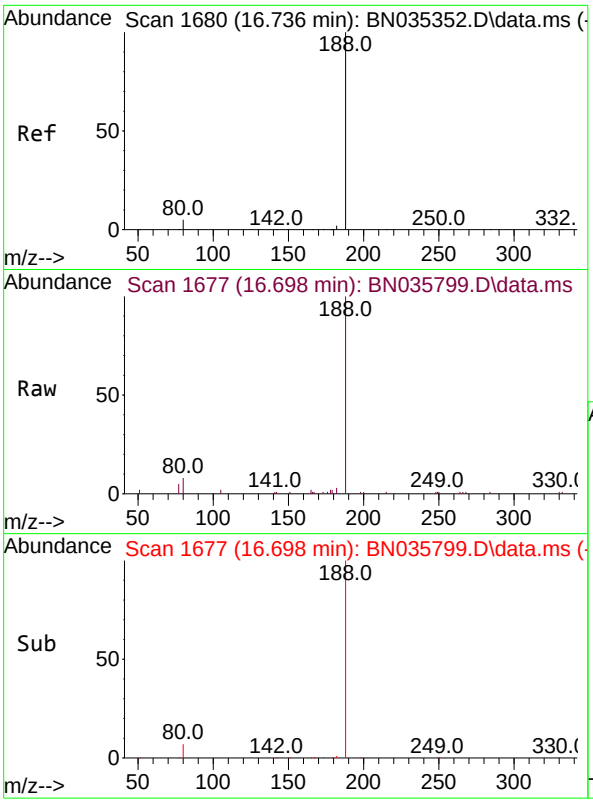


#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.533 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:172 Resp: 6383

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.5	19.8	29.8

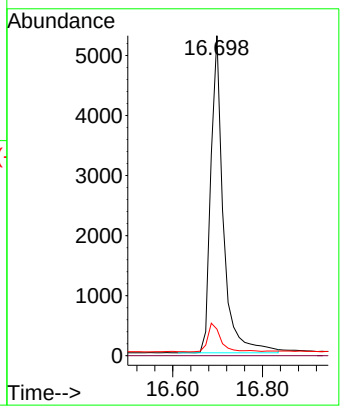




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:188 Resp: 1015

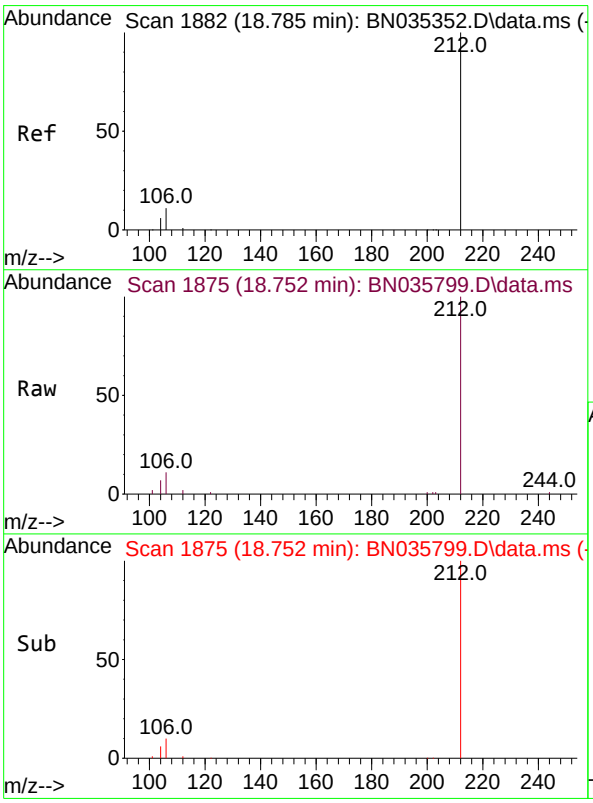
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

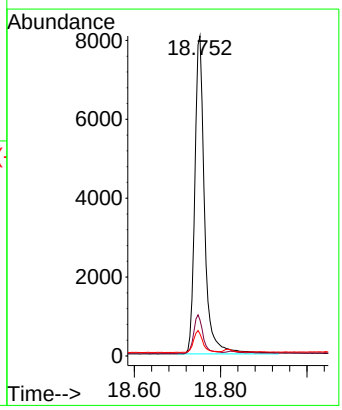
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

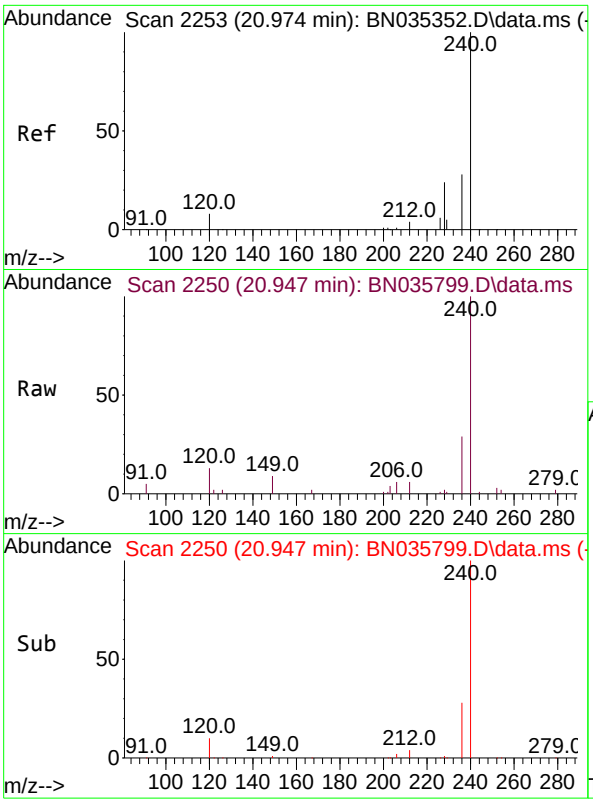


#27
Fluoranthene-d10
Concen: 0.443 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:212 Resp: 12744

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.5	5.3	7.9

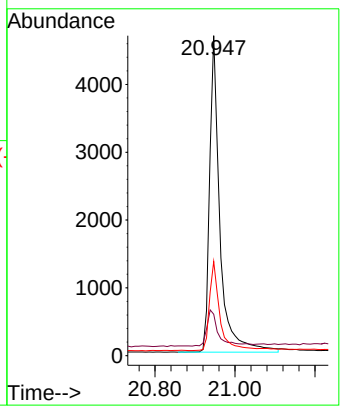




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:240 Resp: 837

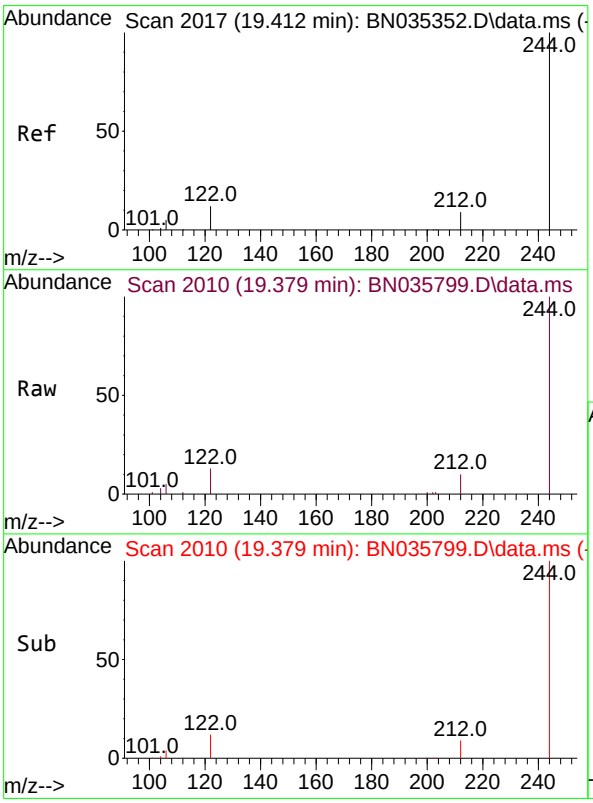
Ion	Ratio	Lower	Upper
240	100		
120	12.9	7.9	11.9
236	29.5	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

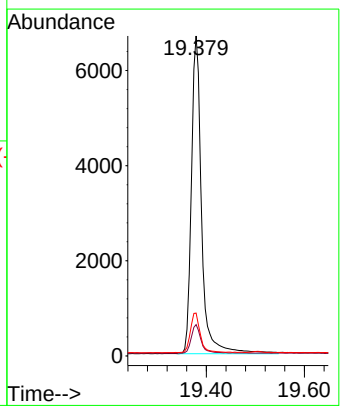
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

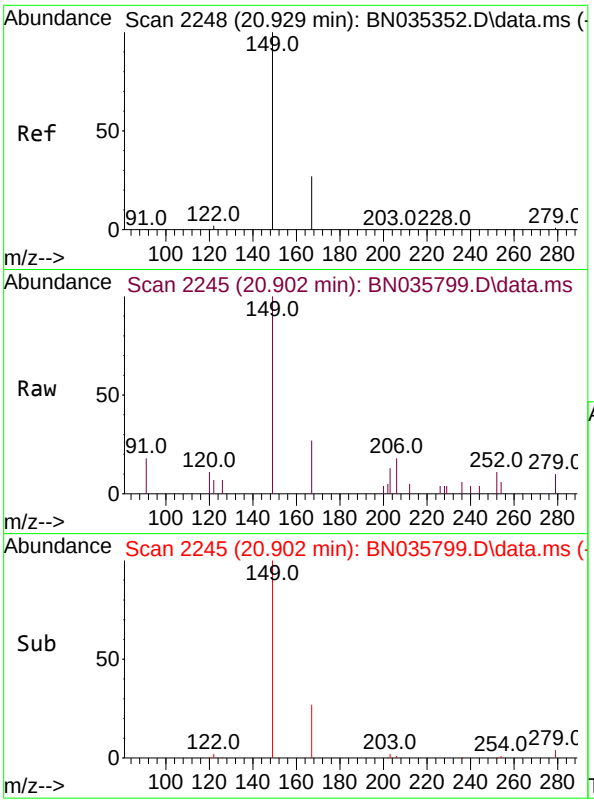


#31
Terphenyl-d14
Concen: 0.583 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:244 Resp: 9635

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	13.4	10.3	15.5

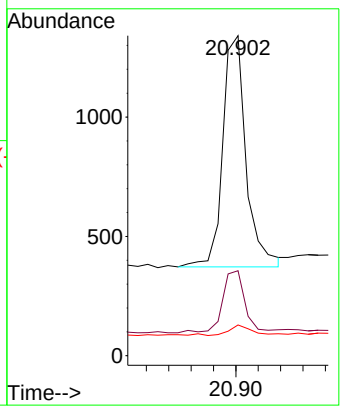




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:149 Resp: 140

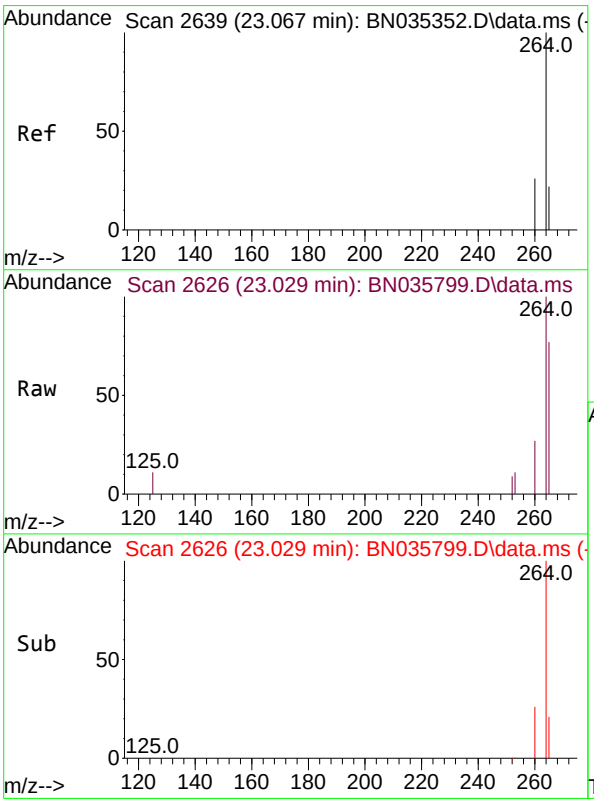
Ion	Ratio	Lower	Upper
149	100		
167	25.7	22.2	33.4
279	4.6	2.7	4.1#



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

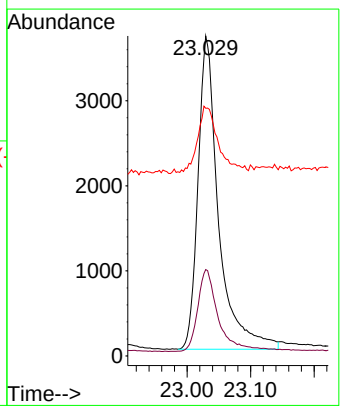
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:264 Resp: 8287

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	77.4	40.2	60.4#



Raw Data: **BN035856.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT189D2-20241213DL	SDG No.:	P5281
Lab Sample ID:	P5281-07DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	880 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035856.D	2	12/16/24 11:30	12/26/24 16:42	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.10	D	0.15	0.45	0.45	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		107%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.55		30 - 150		138%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.56	*	55 - 111		140%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.79	*	58 - 132		198%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3270	7.257				
1146-65-2	Naphthalene-d8	7530	9.999				
15067-26-2	Acenaphthene-d10	4930	13.914				
1517-22-2	Phenanthrene-d10	10700	16.686				
1719-03-5	Chrysene-d12	7940	20.947				
1520-96-3	Perylene-d12	7190	23.027				

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_N\Data\BN122624\
Data File : BN035856.D
Acq On : 26 Dec 2024 16:42
Operator : RC/JU
Sample : P5281-07DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:41:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3270	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7531	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4933	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10717	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	7941	0.400	ng	0.00
35) Perylene-d12	23.027	264	7194	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	633	0.077	ng	-0.01
5) Phenol-d6	6.477	99	378	0.038	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1288m	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	2517	0.214	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	521	0.149	ng	-0.01
15) 2-Fluorobiphenyl	12.529	172	3977	0.213	ng	-0.02
27) Fluoranthene-d10	18.748	212	8393	0.276	ng	-0.01
31) Terphenyl-d14	19.375	244	6181	0.395	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.975	88	11206	3.585	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	1034	0.094	ng	# 98

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

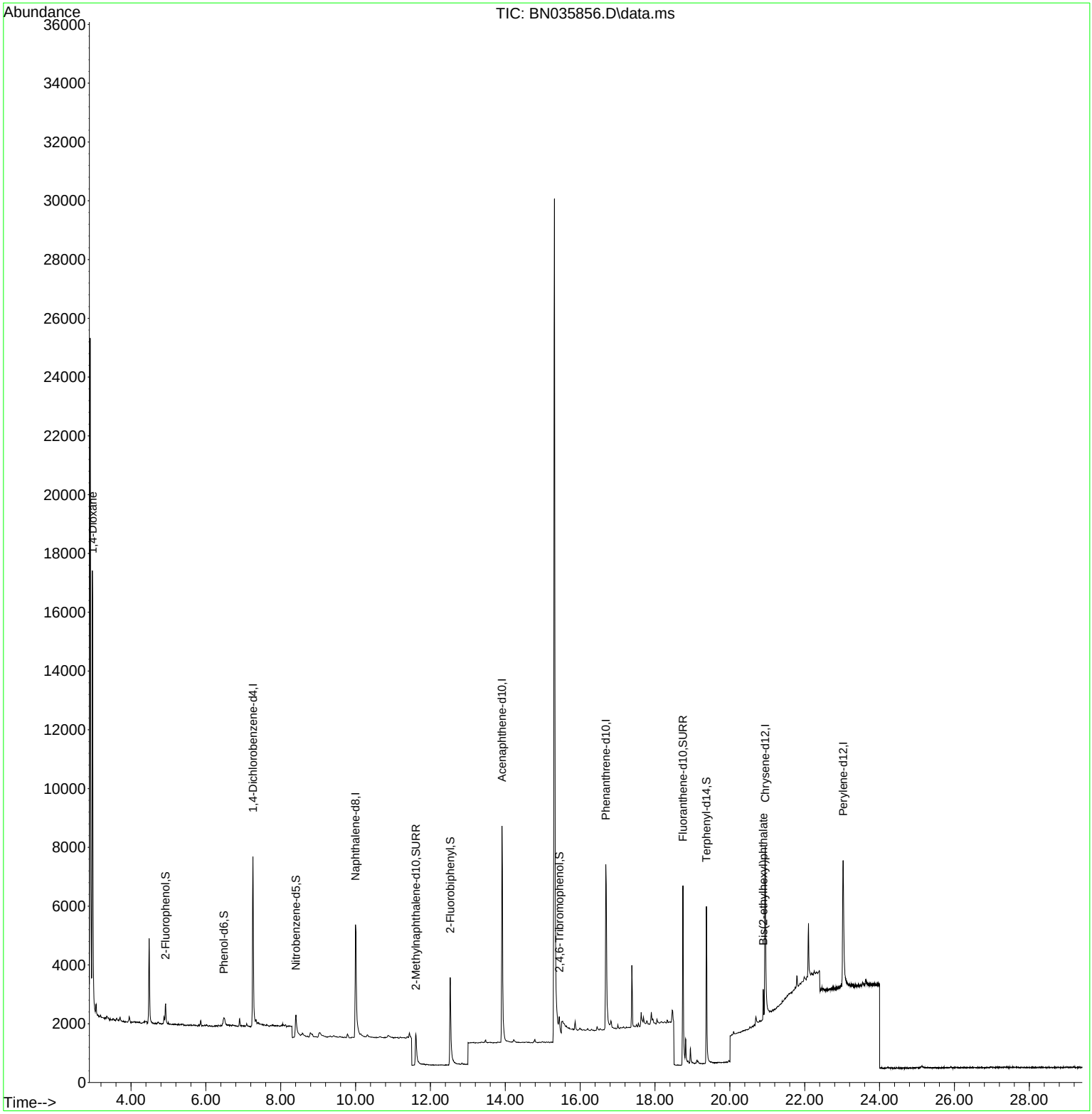
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035856.D
Acq On : 26 Dec 2024 16:42
Operator : RC/JU
Sample : P5281-07DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

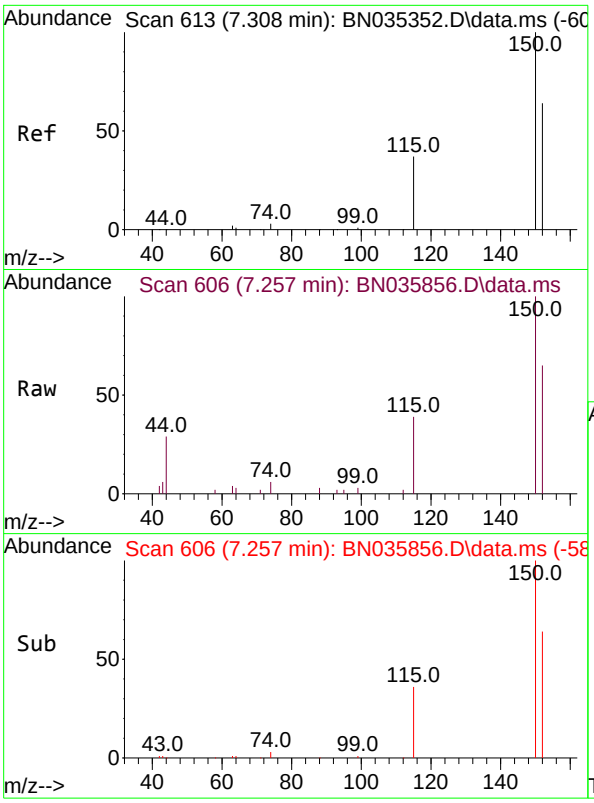
Quant Time: Dec 27 00:41:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

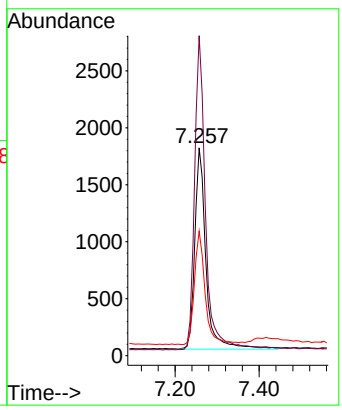




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:152 Resp: 327(

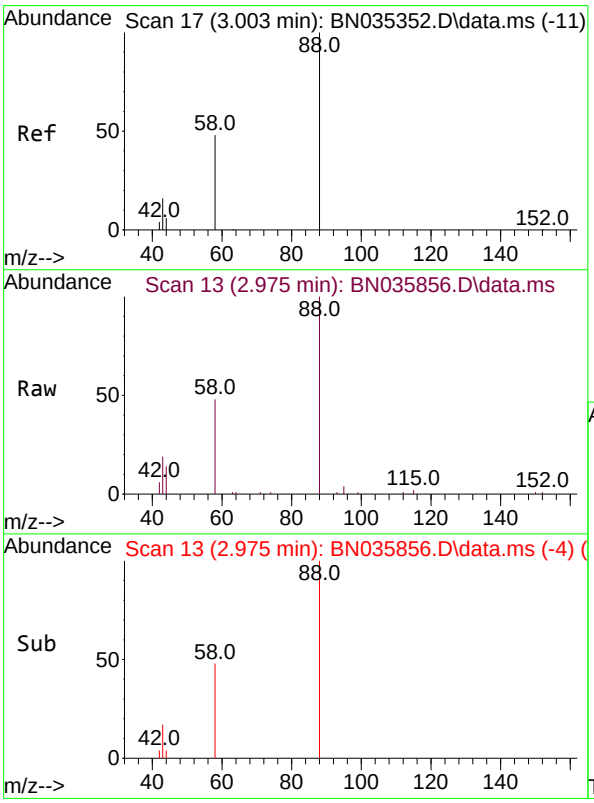
Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	60.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

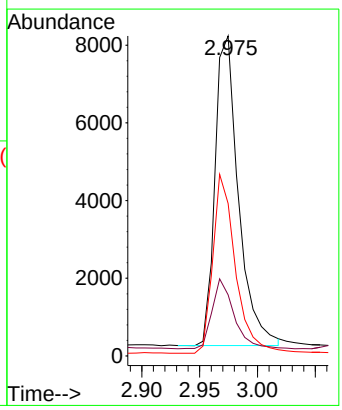
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

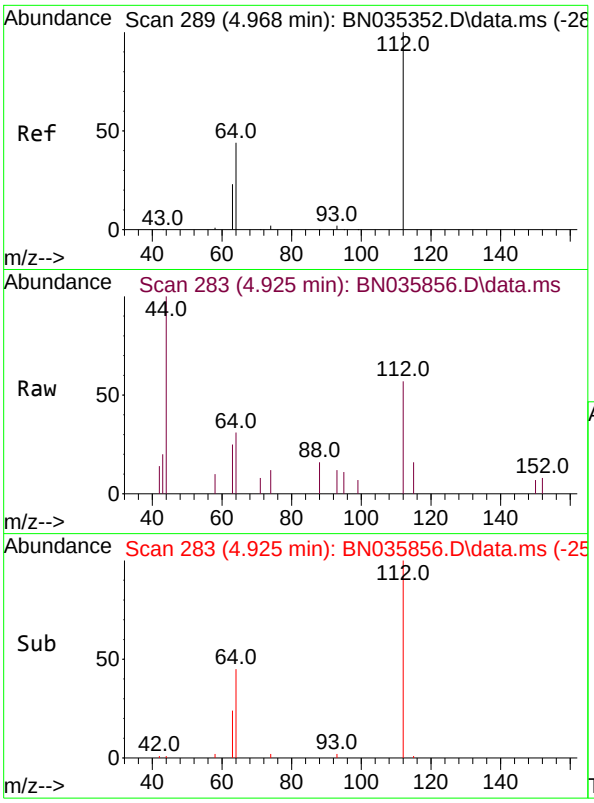


#2
1,4-Dioxane
Concen: 3.585 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion: 88 Resp: 11206

Ion	Ratio	Lower	Upper
88	100		
43	21.1	17.2	25.8
58	55.4	44.5	66.7





#4
2-Fluorophenol
Concen: 0.077 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

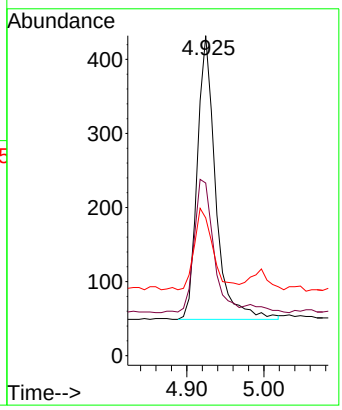
Tgt Ion:112 Resp: 63

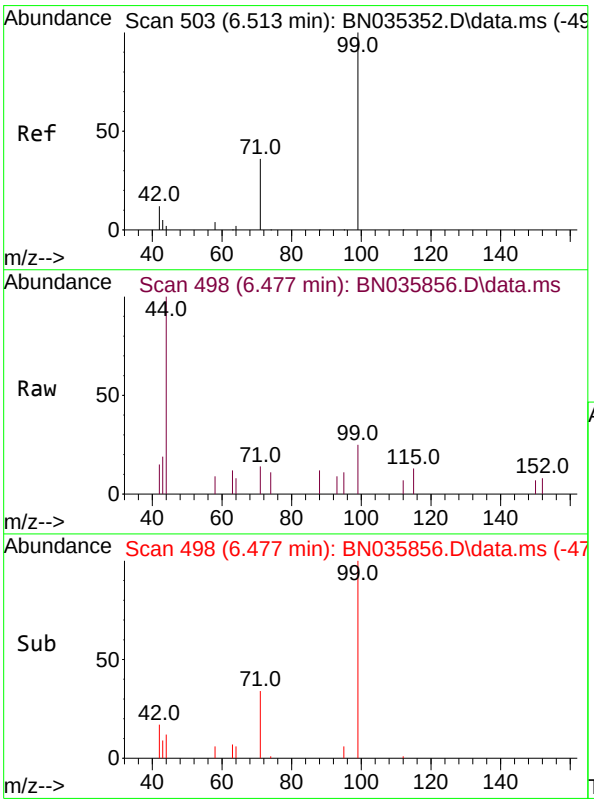
Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	28.4	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

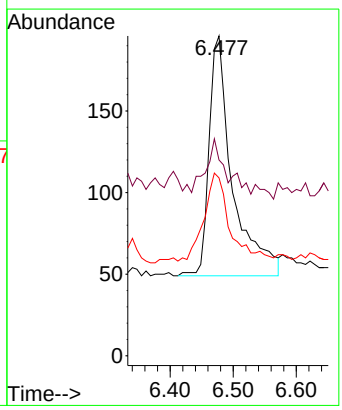


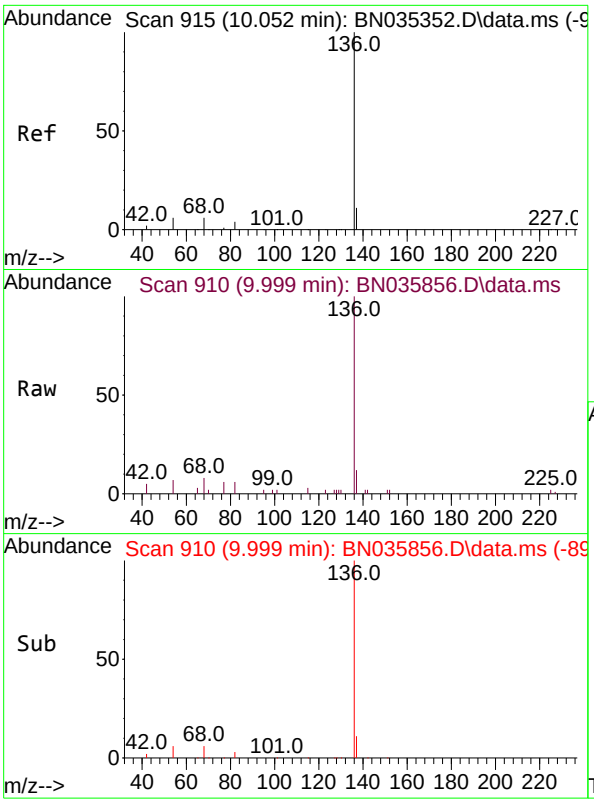


#5
Phenol-d6
Concen: 0.038 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion: 99 Resp: 378

Ion	Ratio	Lower	Upper
99	100		
42	19.6	11.4	17.2#
71	41.5	29.3	43.9

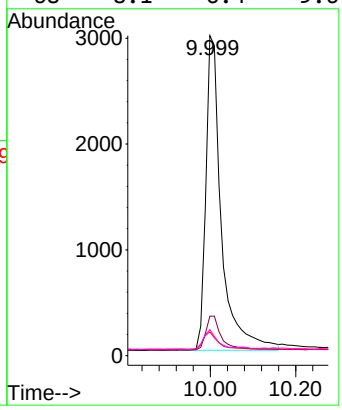




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:136 Resp: 753

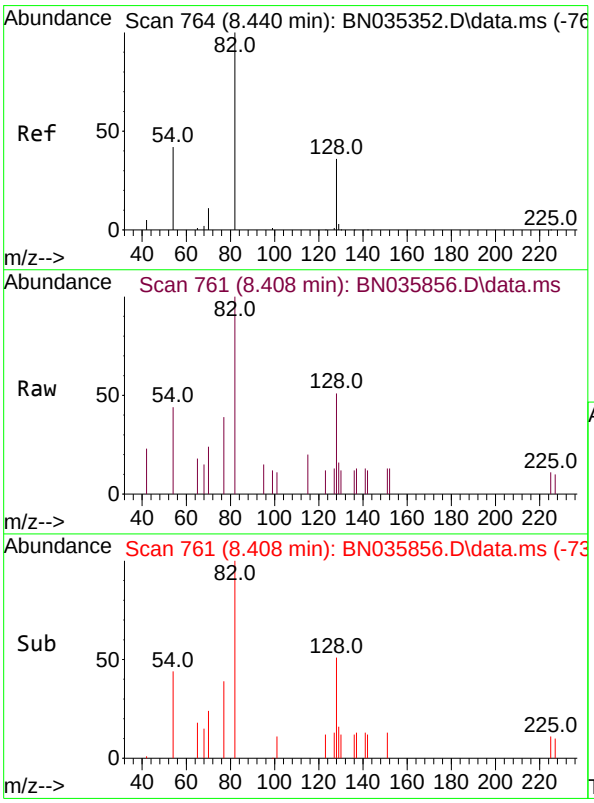
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.4	6.1	9.1
68	8.1	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

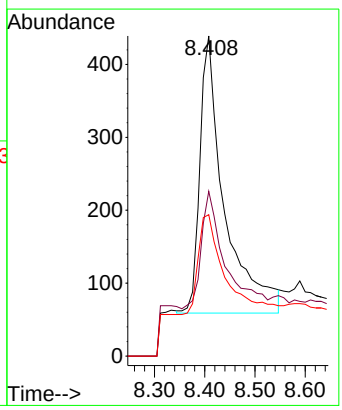
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

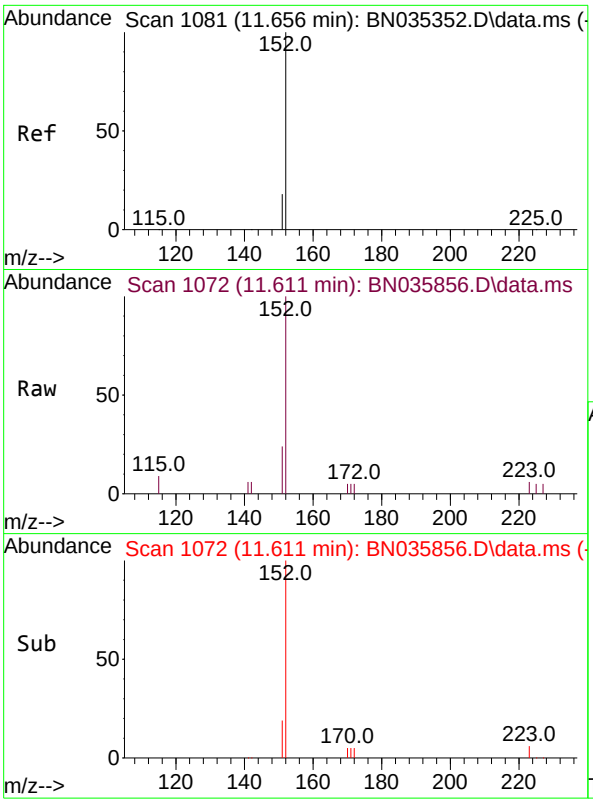


#8
Nitrobenzene-d5
Concen: 0.280 ng m
RT: 8.408 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion: 82 Resp: 1288

Ion	Ratio	Lower	Upper
82	100		
128	51.5	33.4	50.0#
54	44.2	36.7	55.1

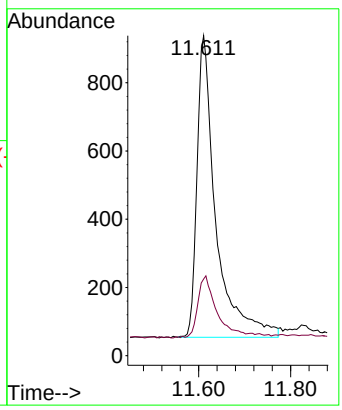




#11
2-Methylnaphthalene-d10
Concen: 0.214 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:152 Resp: 251

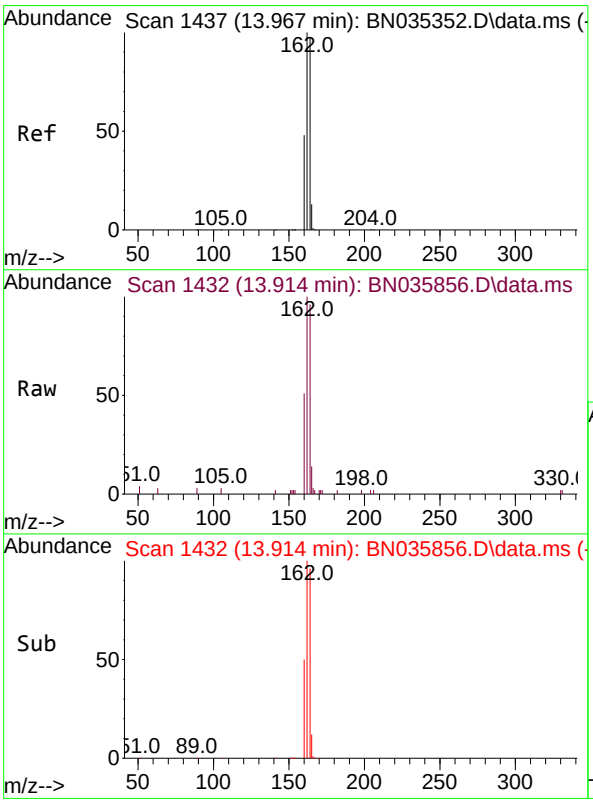
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

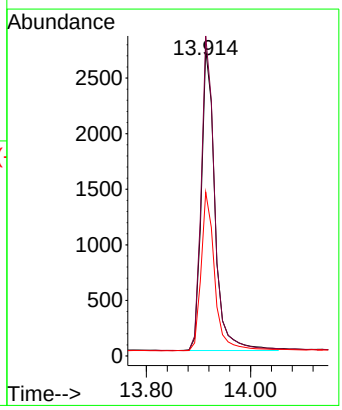
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

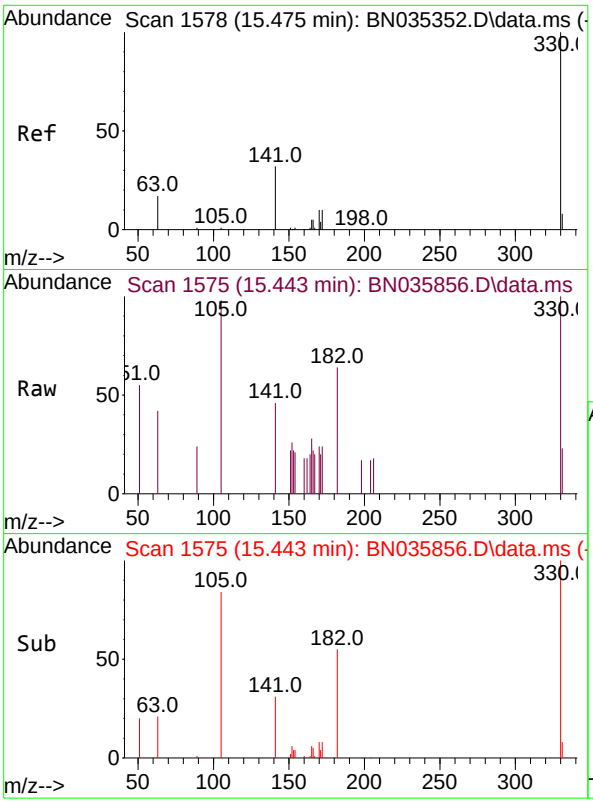


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:164 Resp: 4933

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	53.4	40.1	60.1

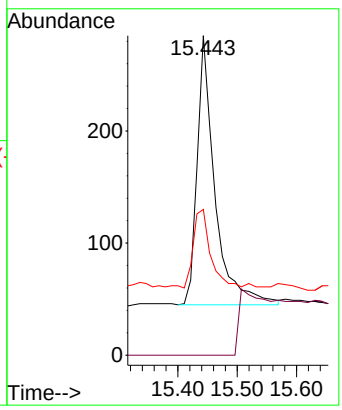




#14
2,4,6-Tribromophenol
Concen: 0.149 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:330 Resp: 52

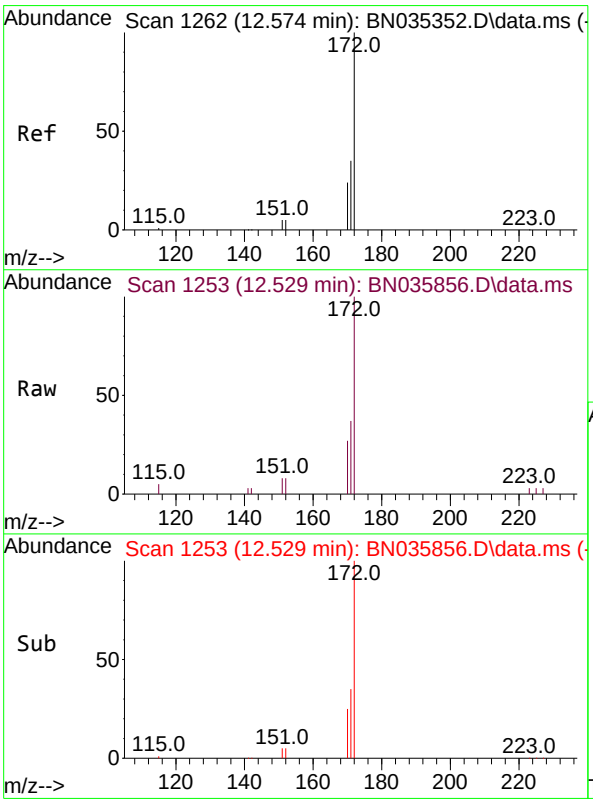
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.0	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

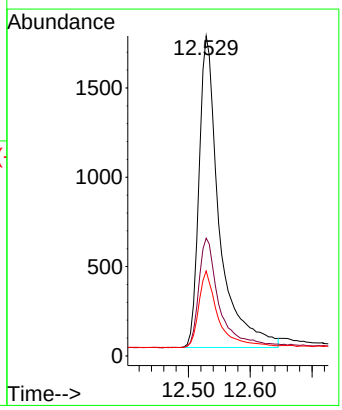
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

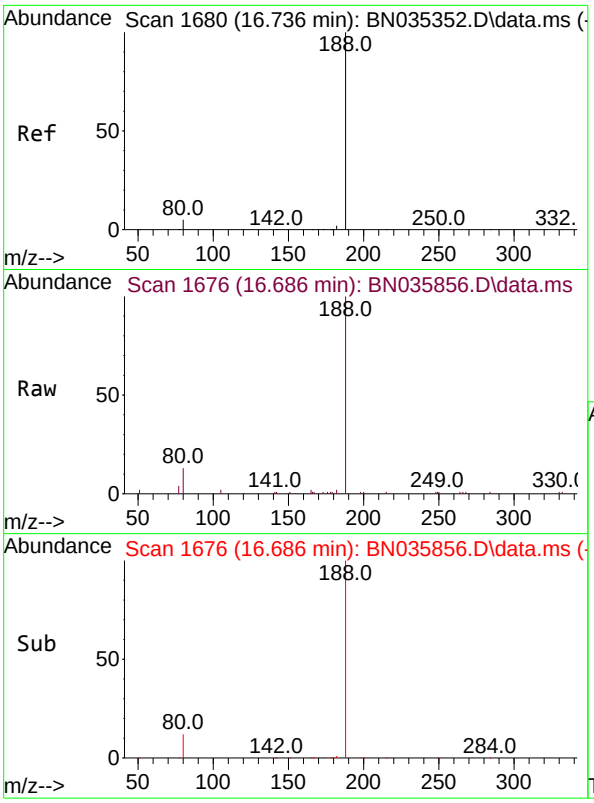


#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 12.529 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:172 Resp: 3977

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	26.5	19.8	29.8

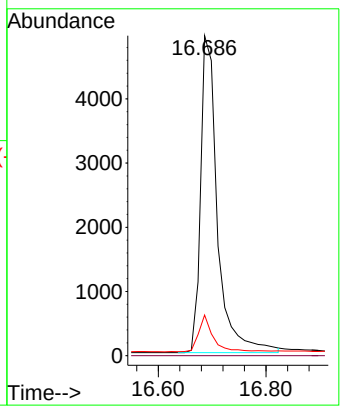




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:188 Resp: 1071

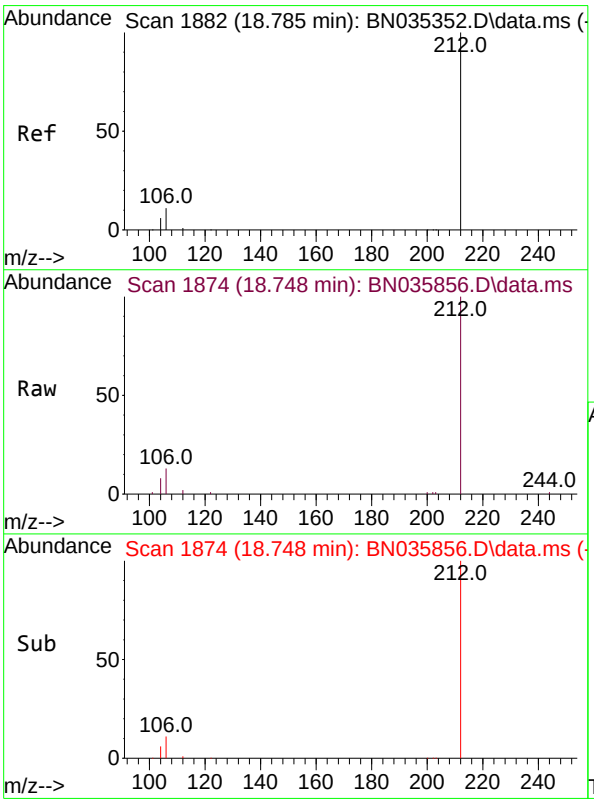
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

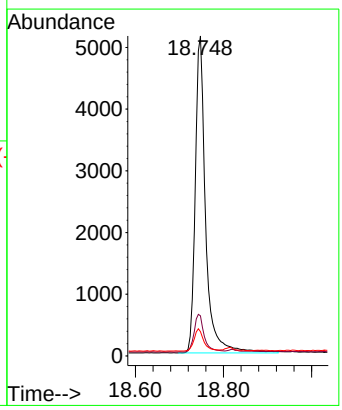
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

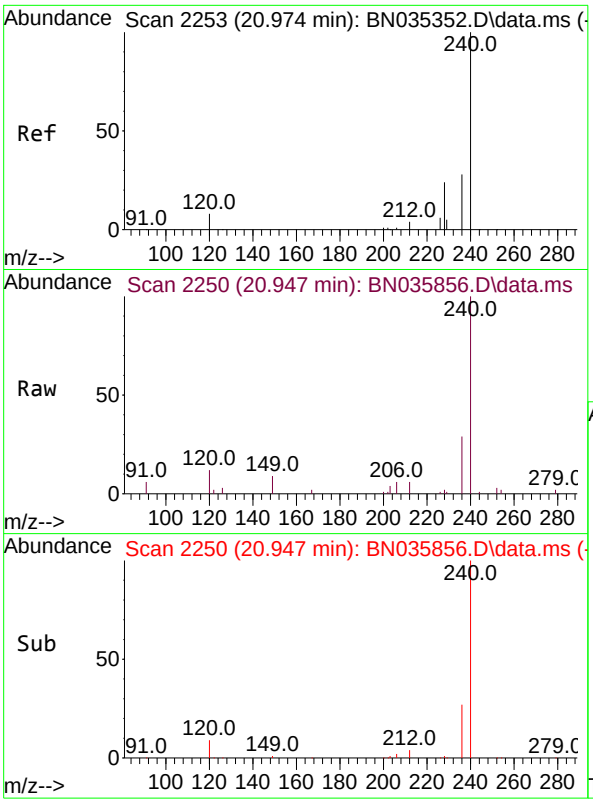


#27
Fluoranthene-d10
Concen: 0.276 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:212 Resp: 8393

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

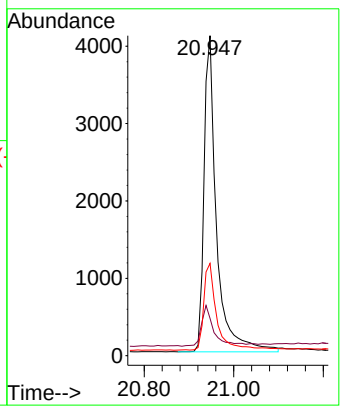
Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

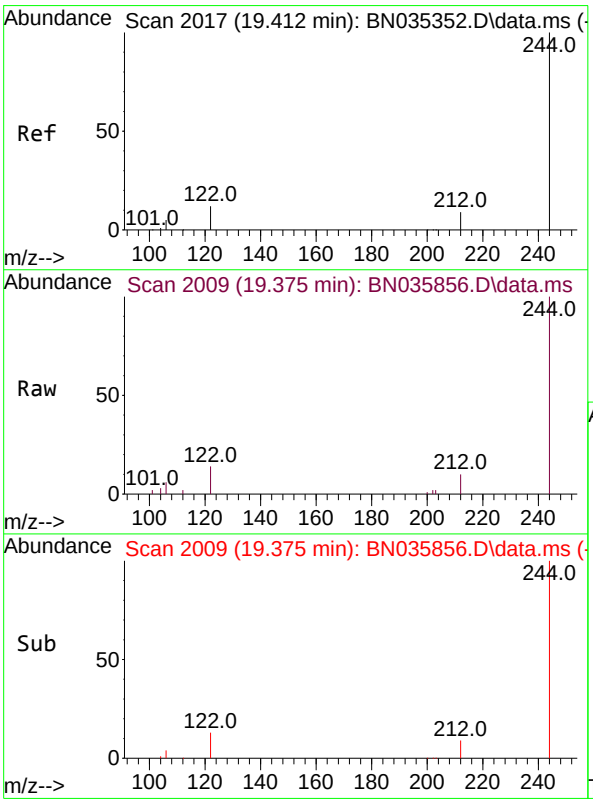
Tgt Ion:240 Resp: 794

Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.9	11.9
236	28.8	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

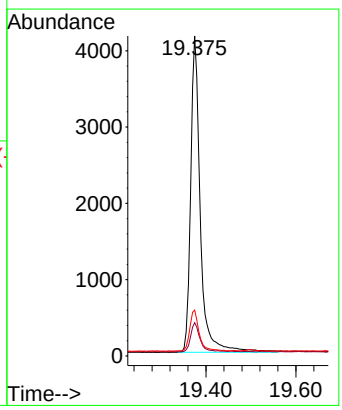


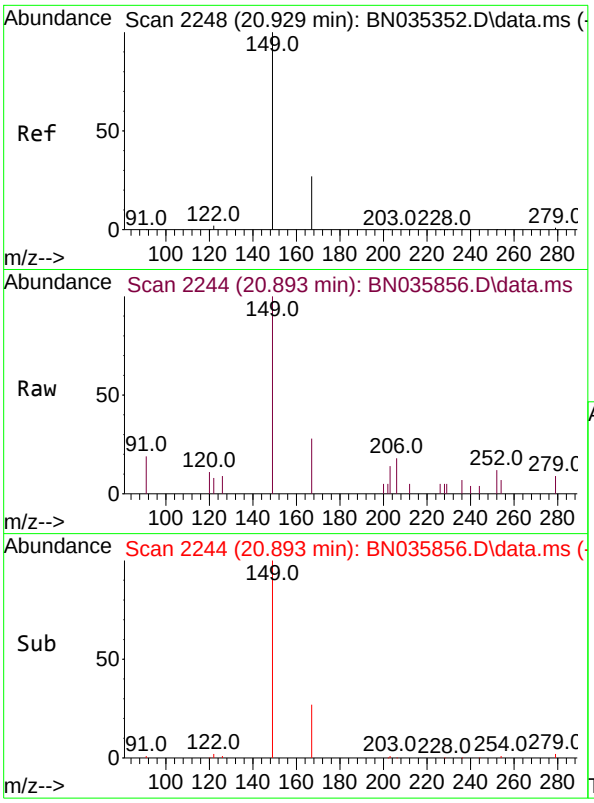


#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:244 Resp: 6181

Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	14.3	10.3	15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

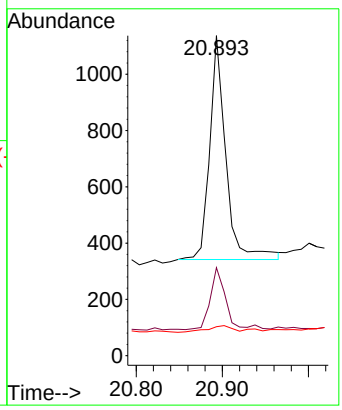
Tgt Ion:149 Resp: 103

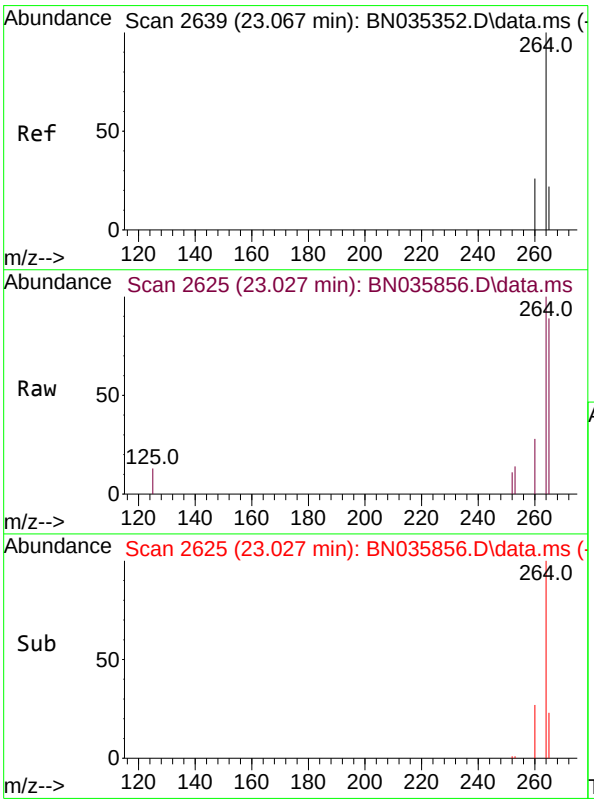
Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.2	33.4
279	4.6	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

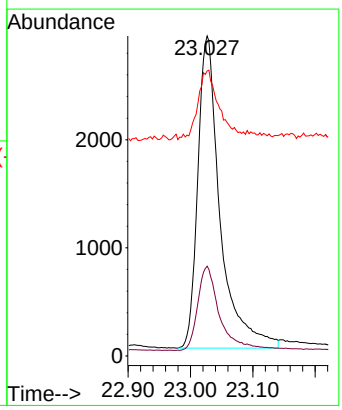




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:264 Resp: 7194

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.4	32.2
265	89.1	40.2	60.4#



Raw Data: **BN035800.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	FB02-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035800.D	1	12/16/24 11:30	12/24/24 01:49	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3460	7.264				
1146-65-2	Naphthalene-d8	8000	10.009				
15067-26-2	Acenaphthene-d10	4900	13.925				
1517-22-2	Phenanthrene-d10	9900	16.698				
1719-03-5	Chrysene-d12	7910	20.947				
1520-96-3	Perylene-d12	7430	23.032				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN035800.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035800.D
Acq On : 24 Dec 2024 01:49
Operator : RC/JU
Sample : P5281-08
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Quant Time: Dec 24 02:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3456	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8002	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4899	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9904	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7907	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7434	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1105	0.128	ng	0.00
5) Phenol-d6	6.484	99	585	0.056	ng	0.00
8) Nitrobenzene-d5	8.408	82	2186m	0.447	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4603	0.368	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	685	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	7146	0.386	ng	-0.01
27) Fluoranthene-d10	18.752	212	12579	0.448	ng	0.00
31) Terphenyl-d14	19.379	244	9156	0.587	ng	0.00
Target Compounds						Qvalue
32) Benzo(a)anthracene	20.938	228	660	0.024	ng	# 74
33) Chrysene	20.983	228	756	0.027	ng	# 80
34) Bis(2-ethylhexyl)phtha...	20.902	149	1232	0.113	ng	96

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

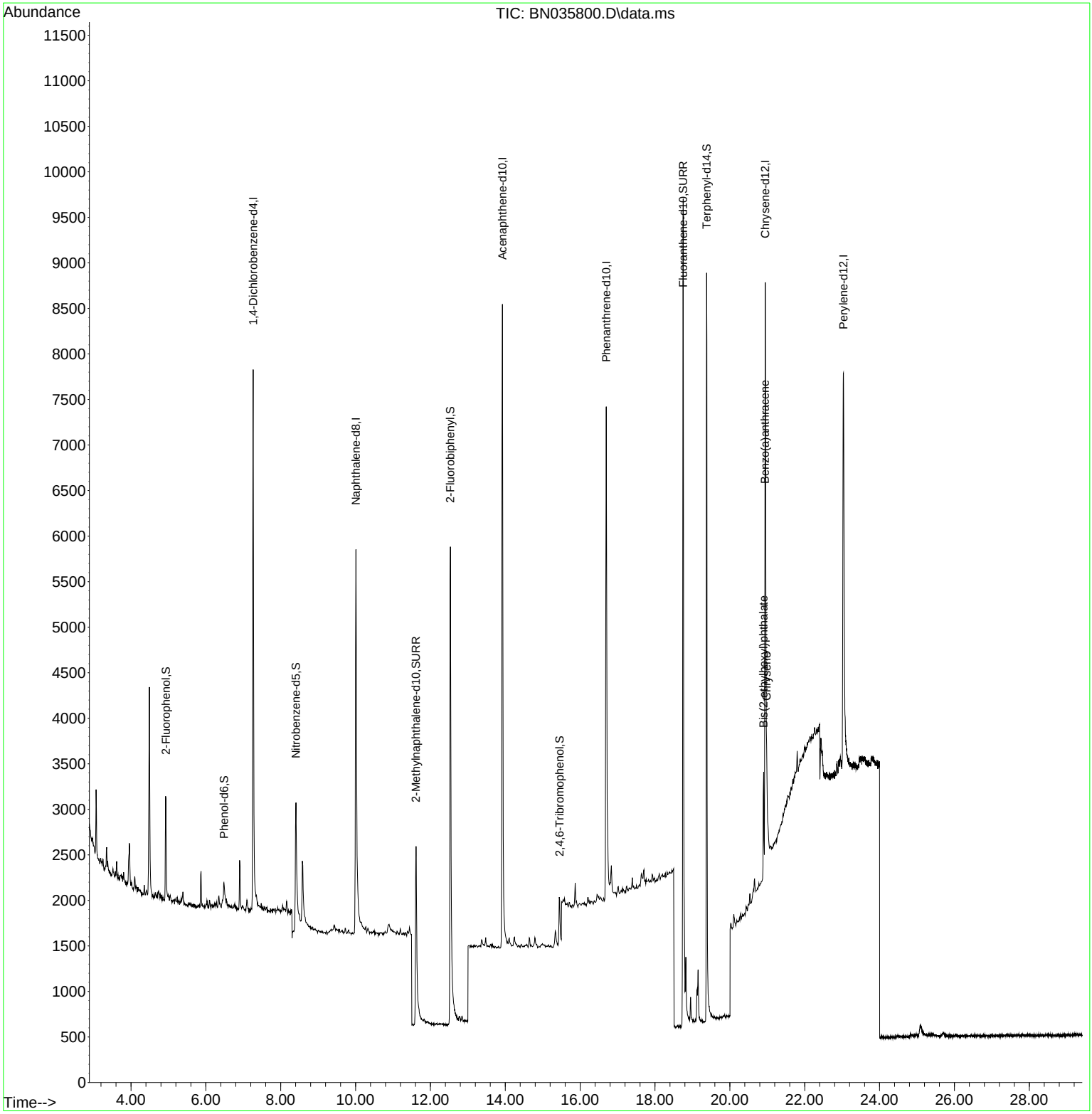
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035800.D
Acq On : 24 Dec 2024 01:49
Operator : RC/JU
Sample : P5281-08
Misc :
ALS Vial : 82 Sample Multiplier: 1

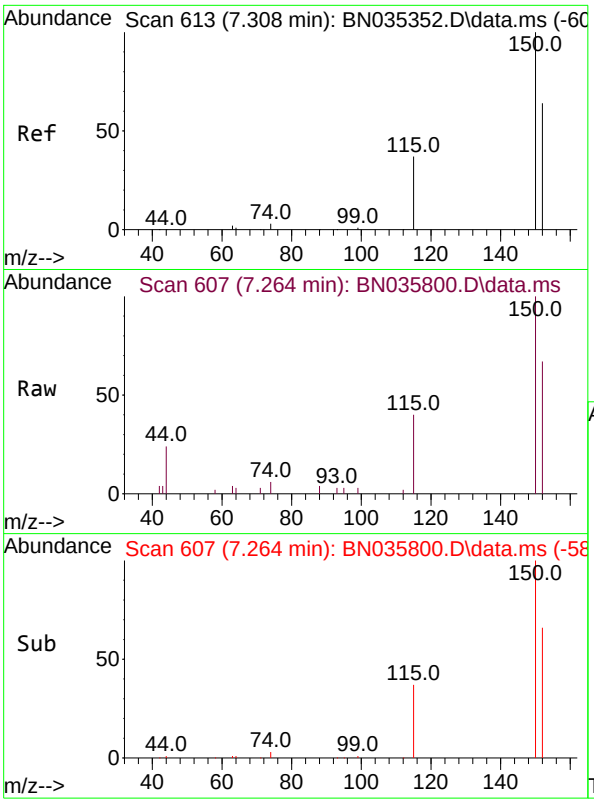
Quant Time: Dec 24 02:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

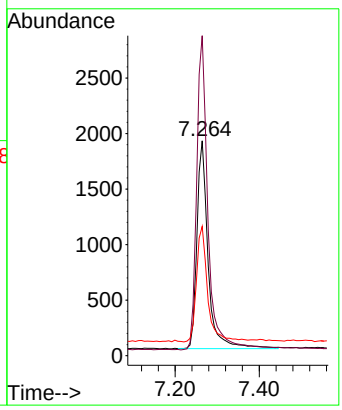




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:152 Resp: 345(

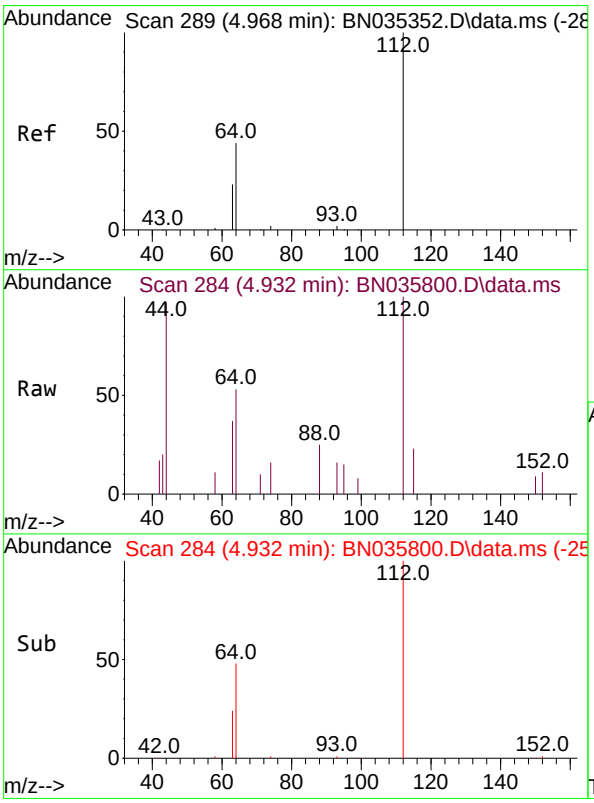
Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	60.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

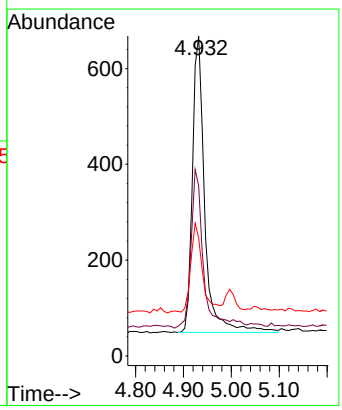
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

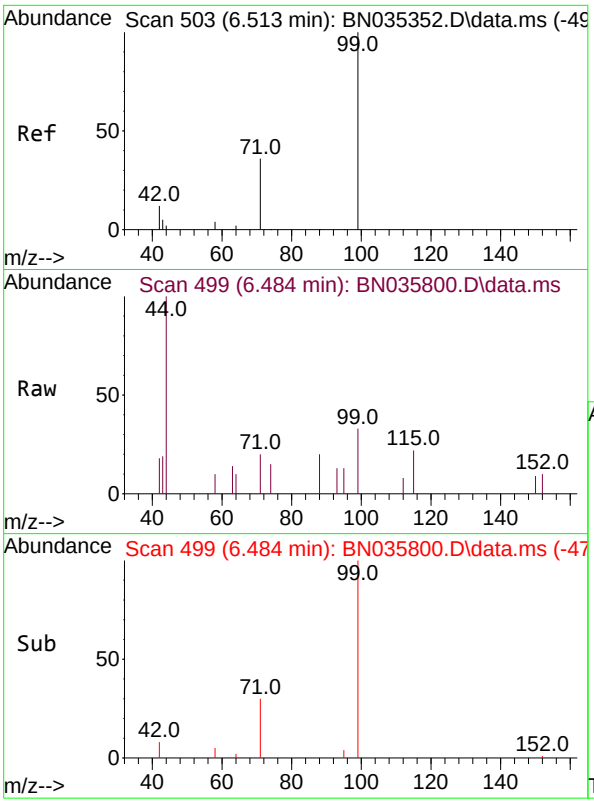


#4
2-Fluorophenol
Concen: 0.128 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:112 Resp: 1105

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	29.0	21.0	31.6

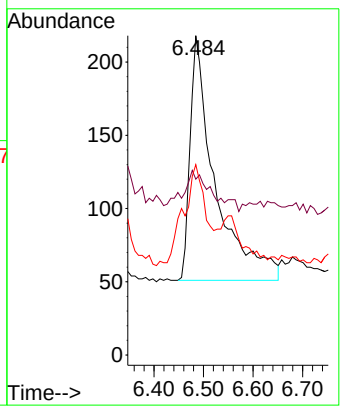




#5
Phenol-d6
Concen: 0.056 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion: 99 Resp: 58

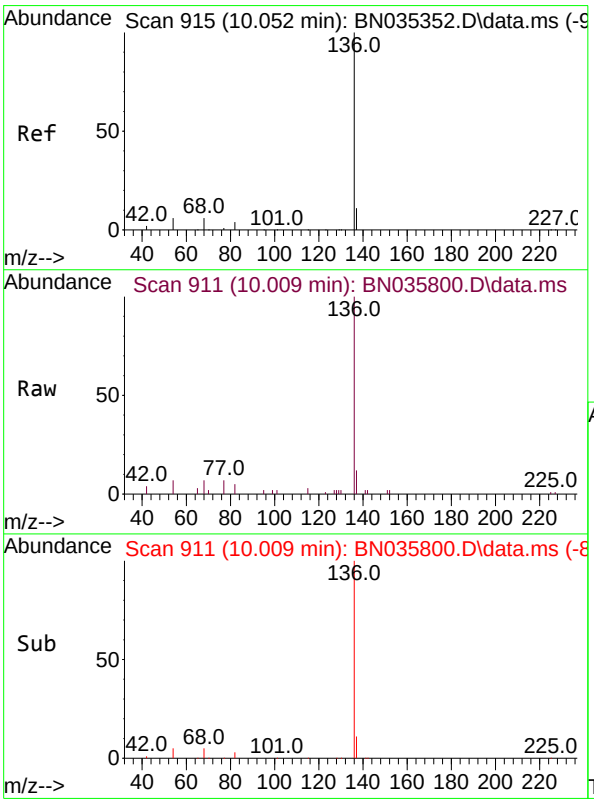
Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

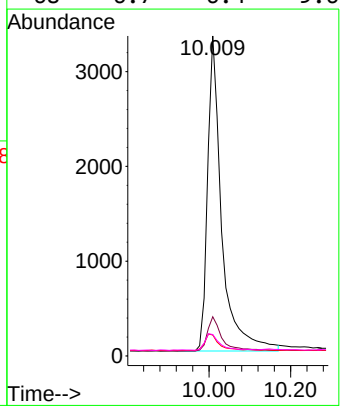
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

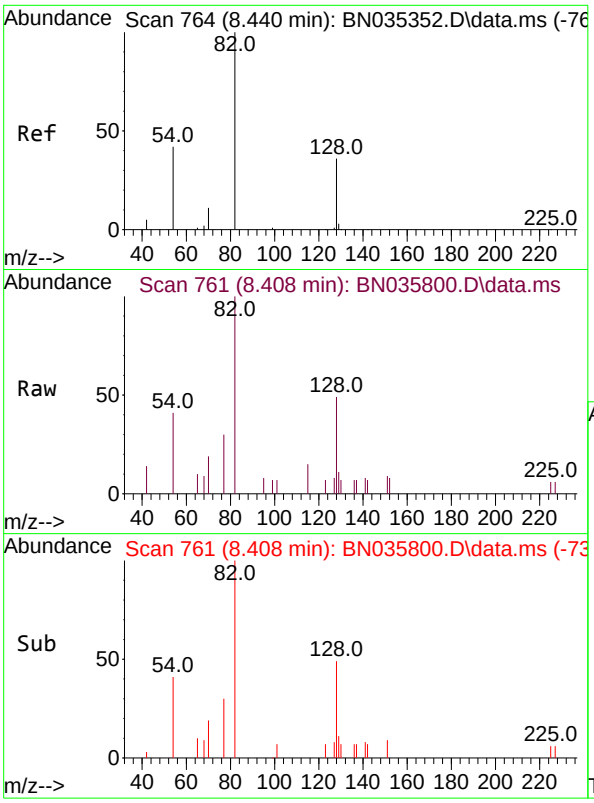


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:136 Resp: 8002

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	6.5	6.1	9.1
68	6.7	6.4	9.6

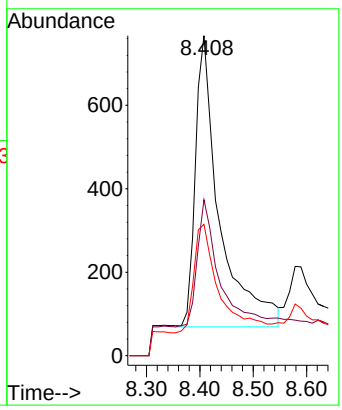




#8
Nitrobenzene-d5
Concen: 0.447 ng m
RT: 8.408 min Scan# 7(
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion: 82 Resp: 218(

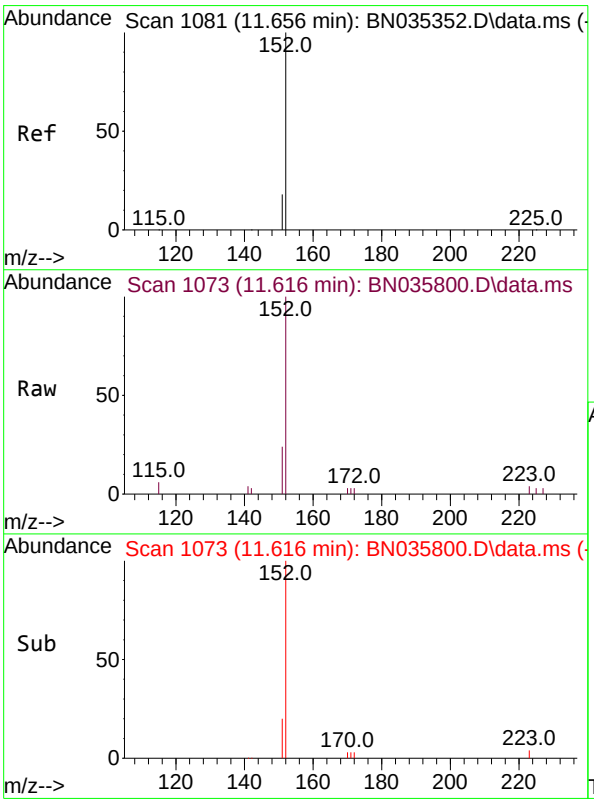
Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	41.1	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

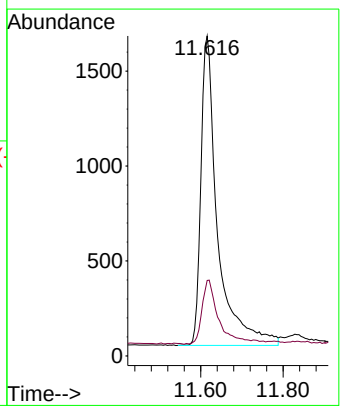
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

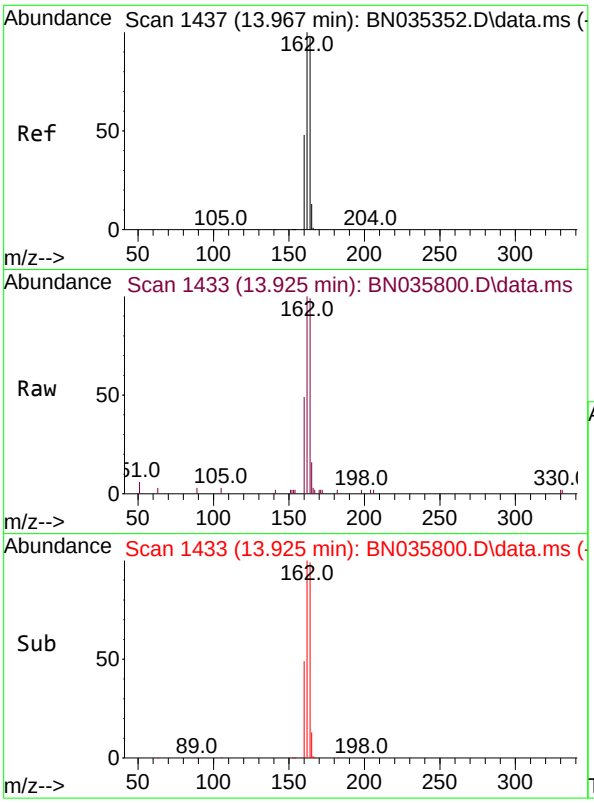


#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:152 Resp: 4603

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

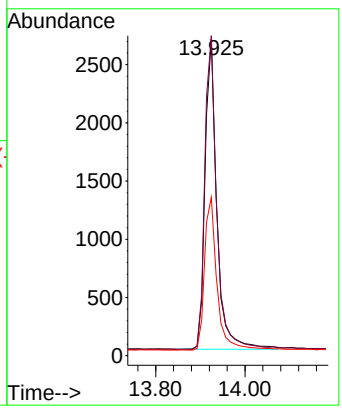




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:164 Resp: 489

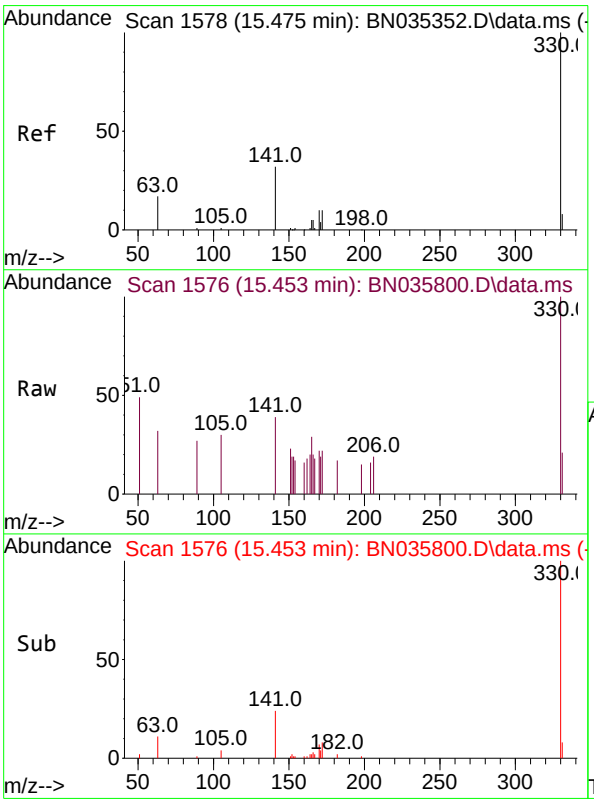
Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.2	123.2
160	49.9	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

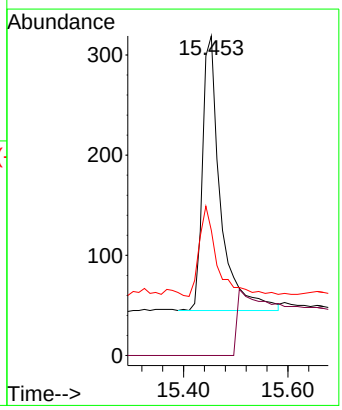
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

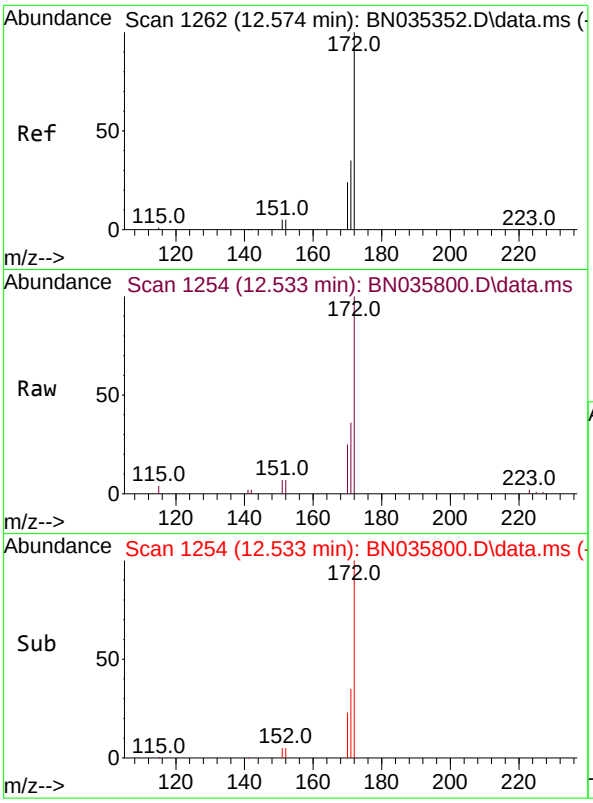


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:330 Resp: 685

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0

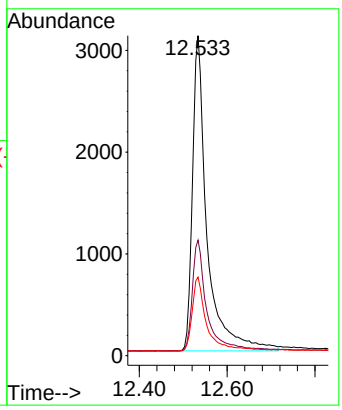




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:172 Resp: 714

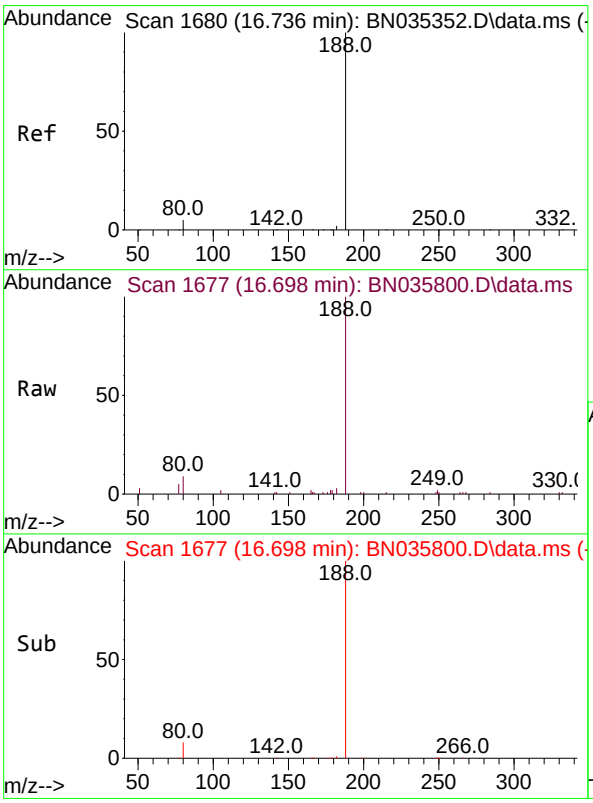
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

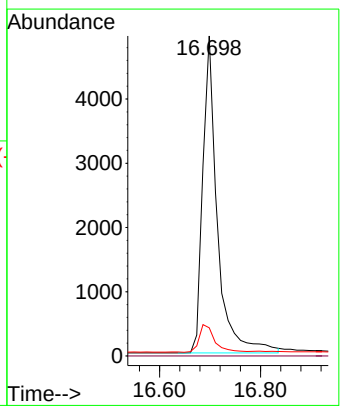
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

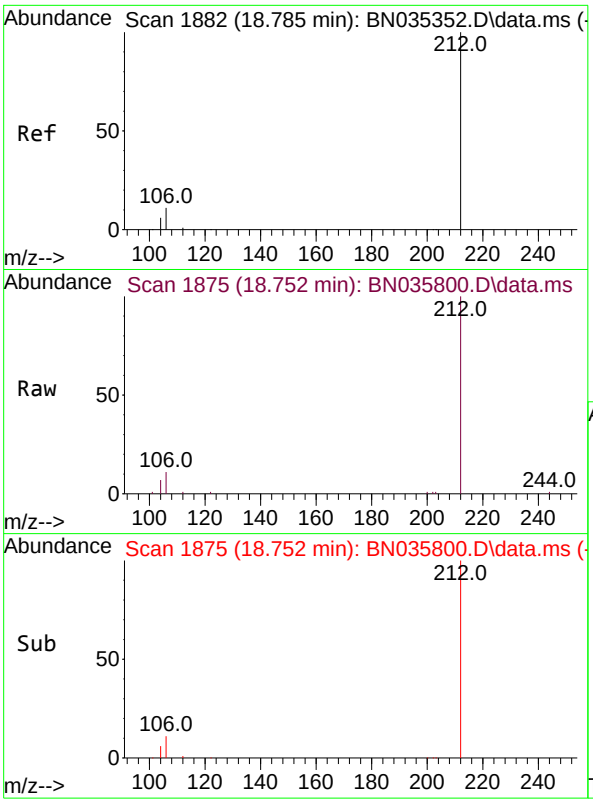


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#

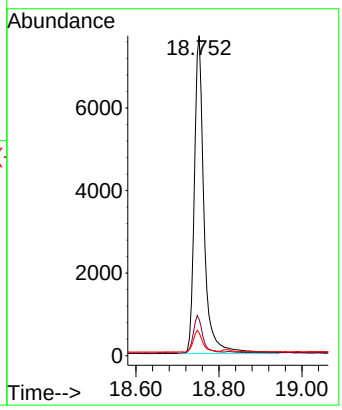




#27
Fluoranthene-d10
Concen: 0.448 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:212 Resp: 1257

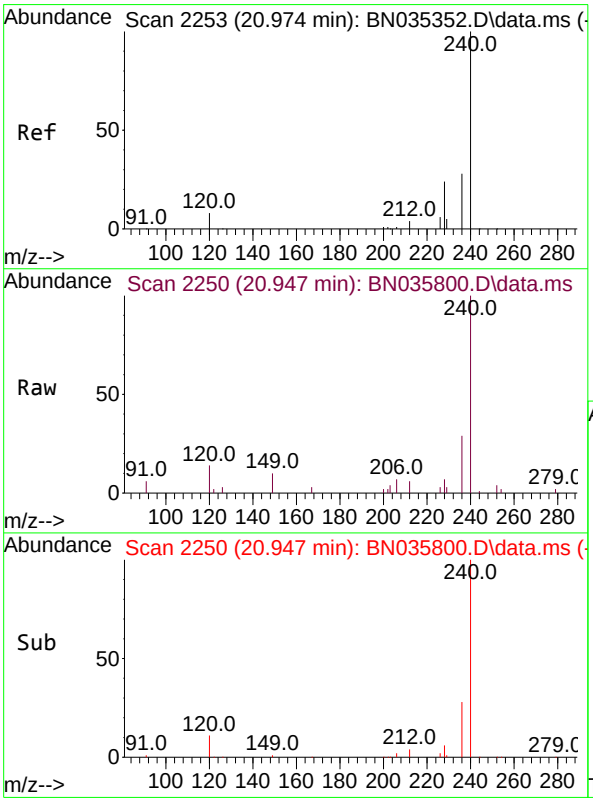
Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

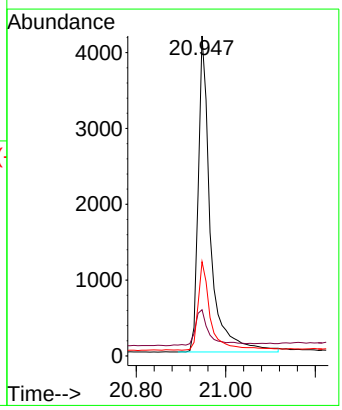
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

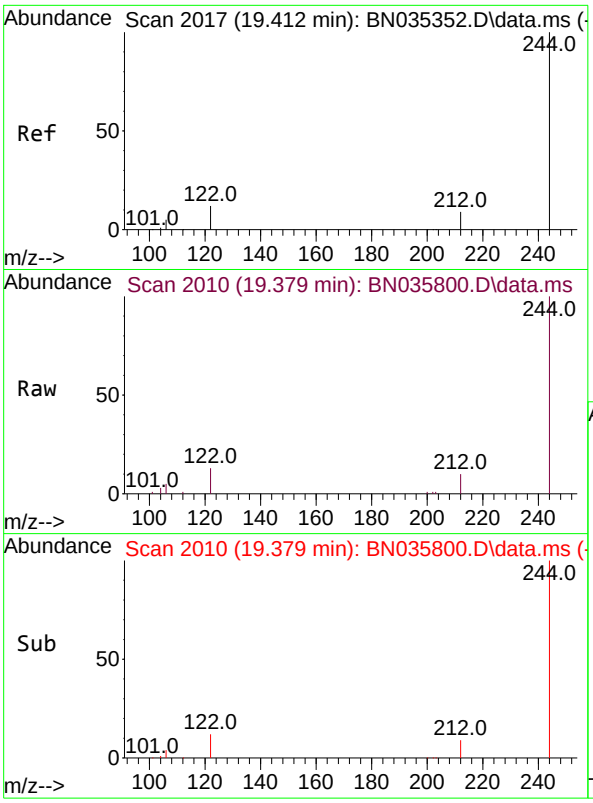


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:240 Resp: 7907

Ion	Ratio	Lower	Upper
240	100		
120	14.4	7.9	11.9#
236	29.5	22.9	34.3

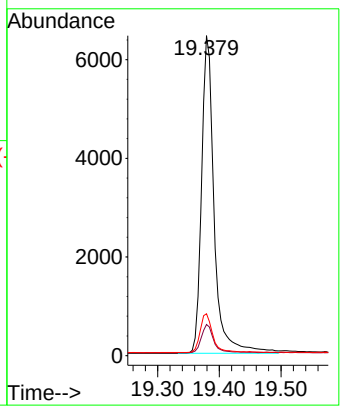




#31
Terphenyl-d14
Concen: 0.587 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:244 Resp: 915

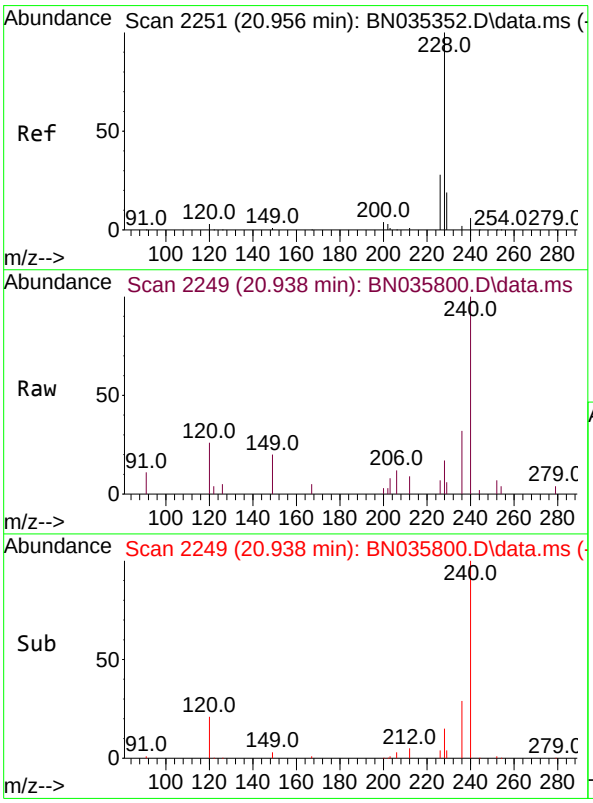
Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

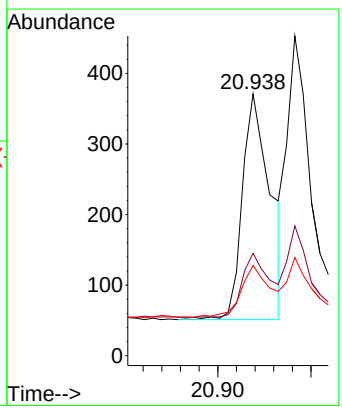
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

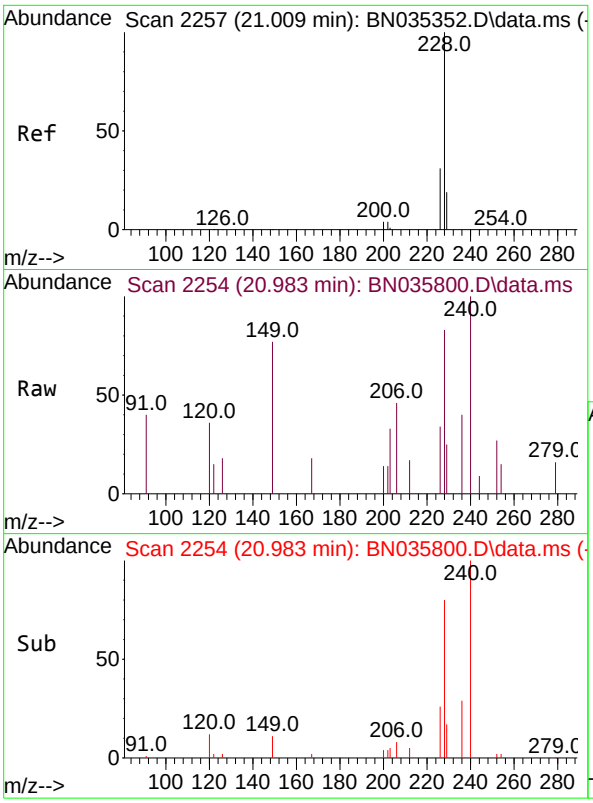


#32
Benzo(a)anthracene
Concen: 0.024 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:228 Resp: 660

Ion	Ratio	Lower	Upper
228	100		
226	39.1	22.5	33.7#
229	34.5	15.8	23.8#

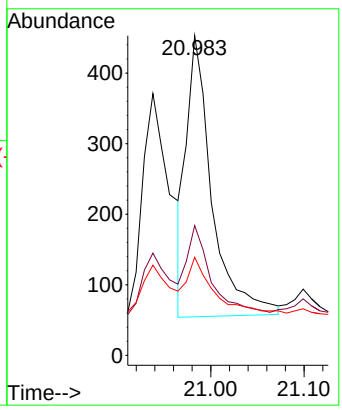




#33
Chrysene
Concen: 0.027 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:228 Resp: 75

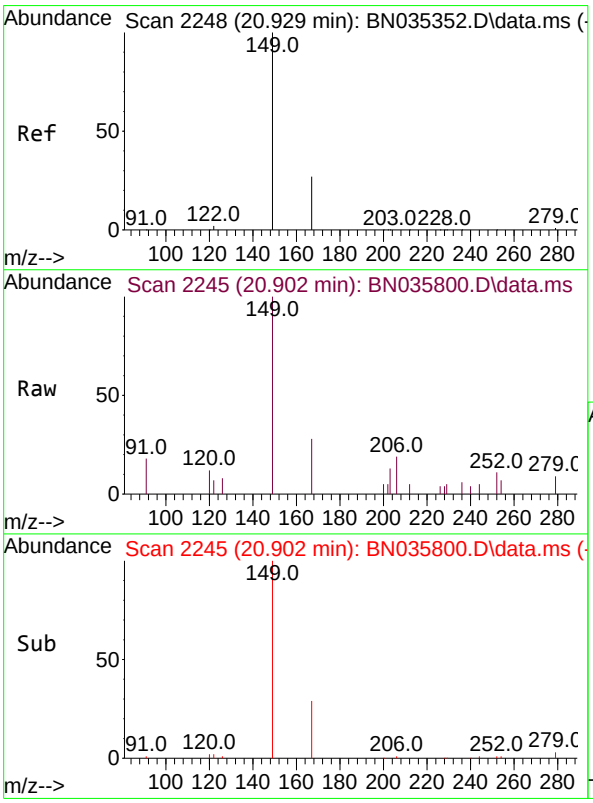
Ion	Ratio	Lower	Upper
228	100		
226	40.6	24.6	37.0#
229	30.7	15.9	23.9#



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

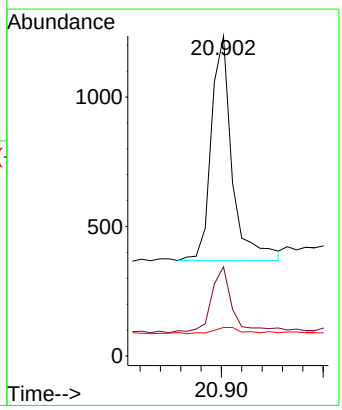
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

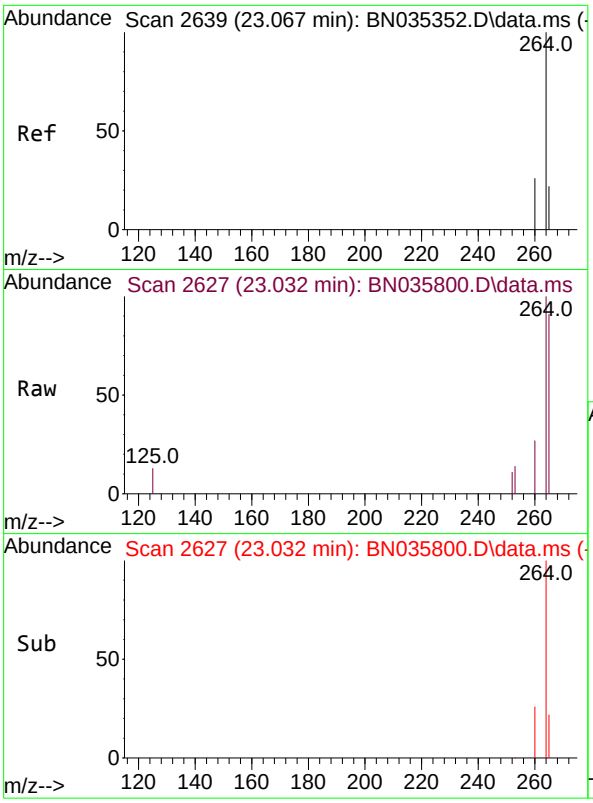


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:149 Resp: 1232

Ion	Ratio	Lower	Upper
149	100		
167	30.4	22.2	33.4
279	3.7	2.7	4.1

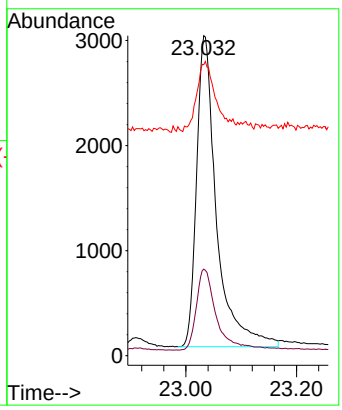




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:264 Resp: 743

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	90.9	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)		n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4)	S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5)	S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)		bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)		Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)		Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11)	SURR	2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)		2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15)	S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)		Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)		Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)		Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)		4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)		Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)		Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)		Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)		Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)		Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27)	SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)		Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31)	S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)		Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)		Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)		Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M

36)		Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)		Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)		Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39)	C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)		Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)		Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	327m	0.065	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4695m	0.107	ng		
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

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

ICAL Form

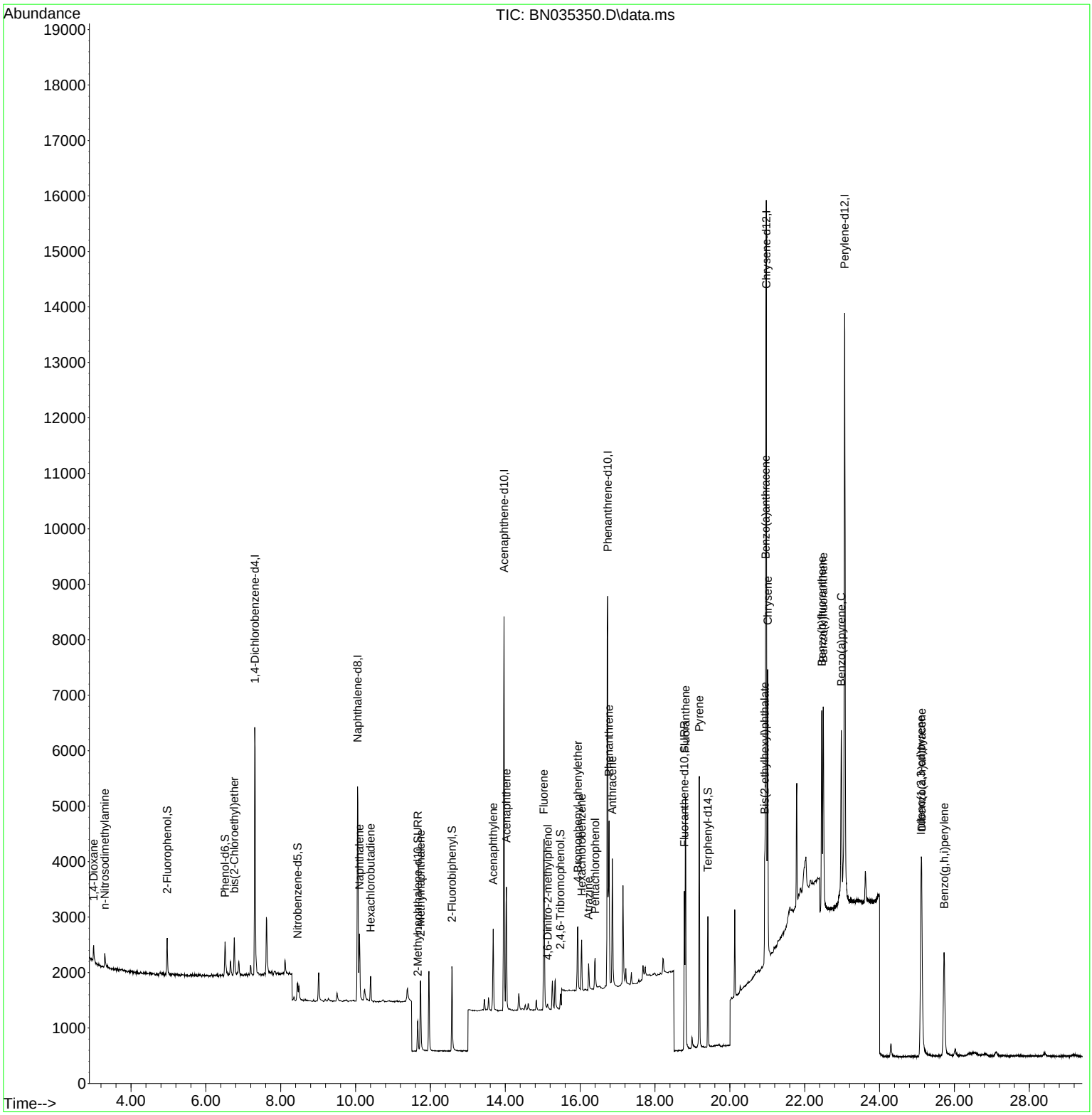
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

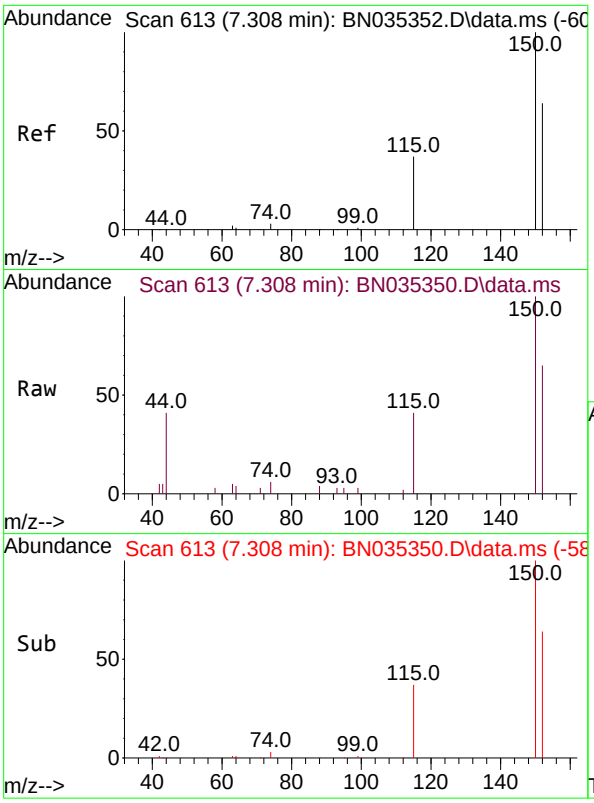
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

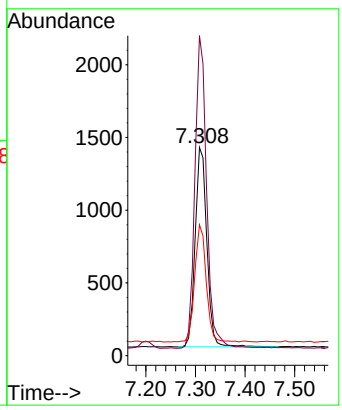




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 223

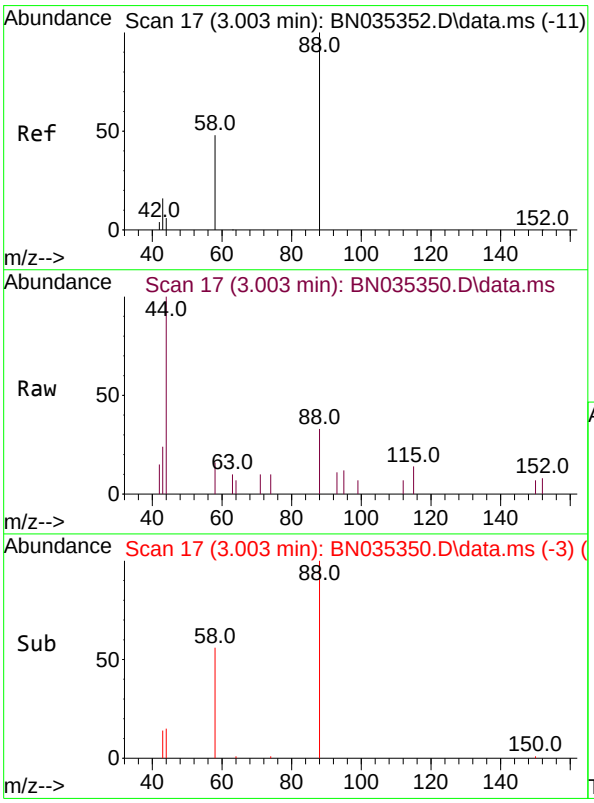
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

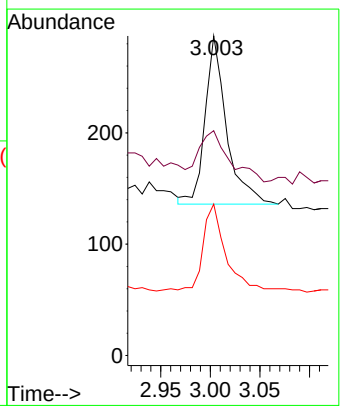
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

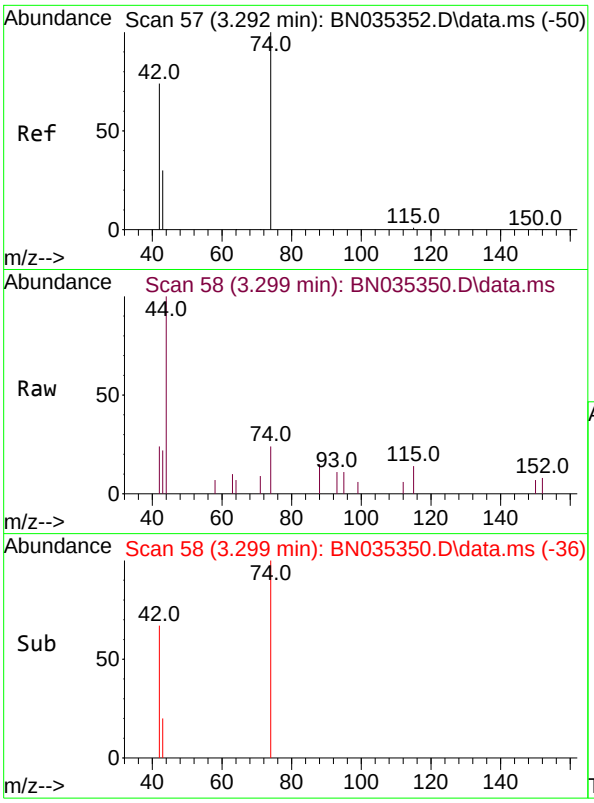


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7

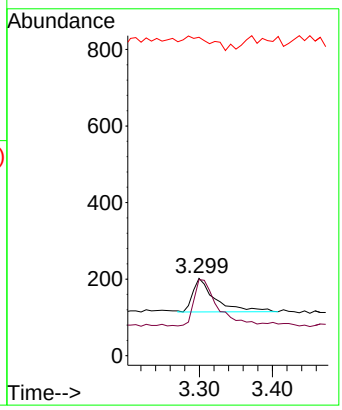




#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 42 Resp: 18

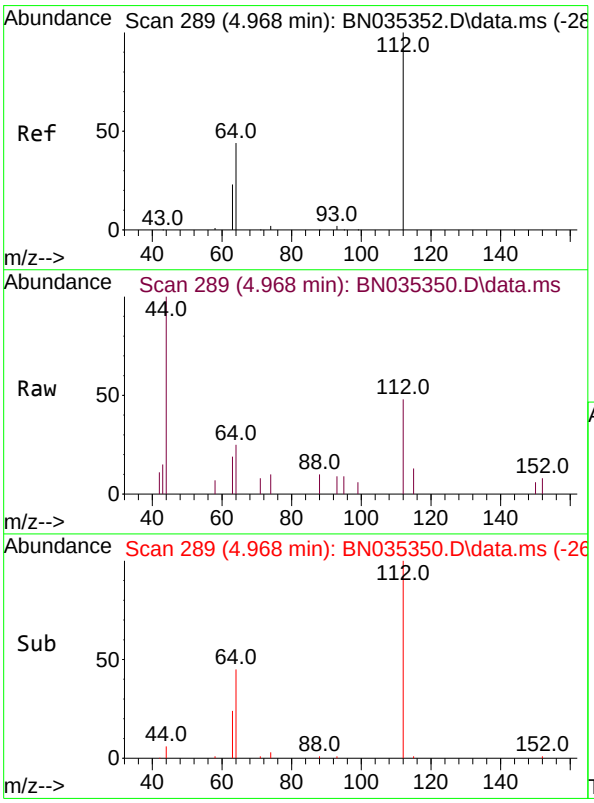
Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

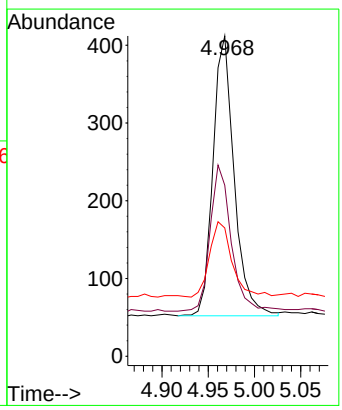
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

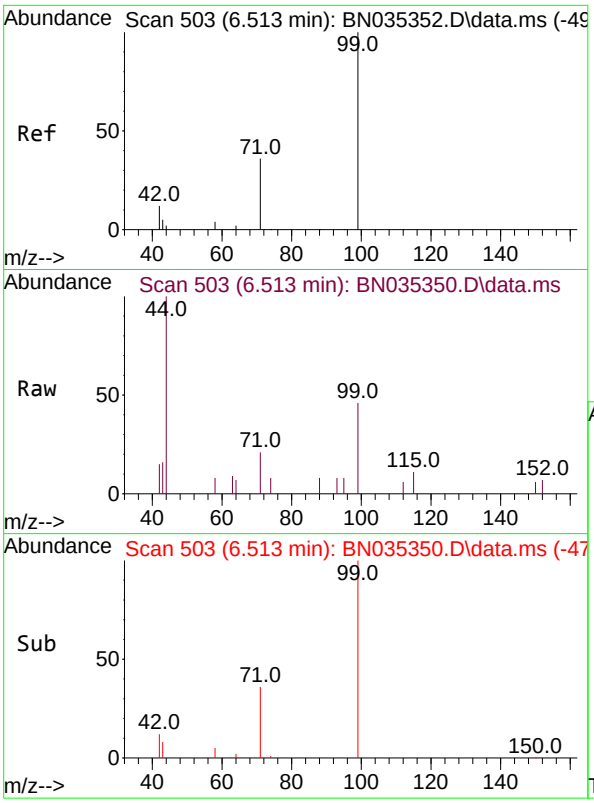


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6

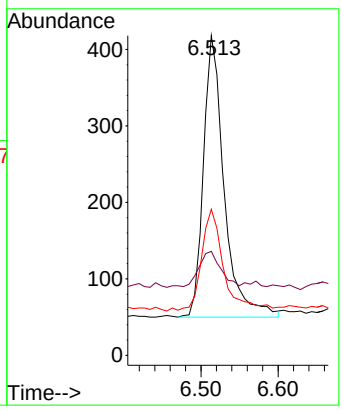




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 99 Resp: 68(

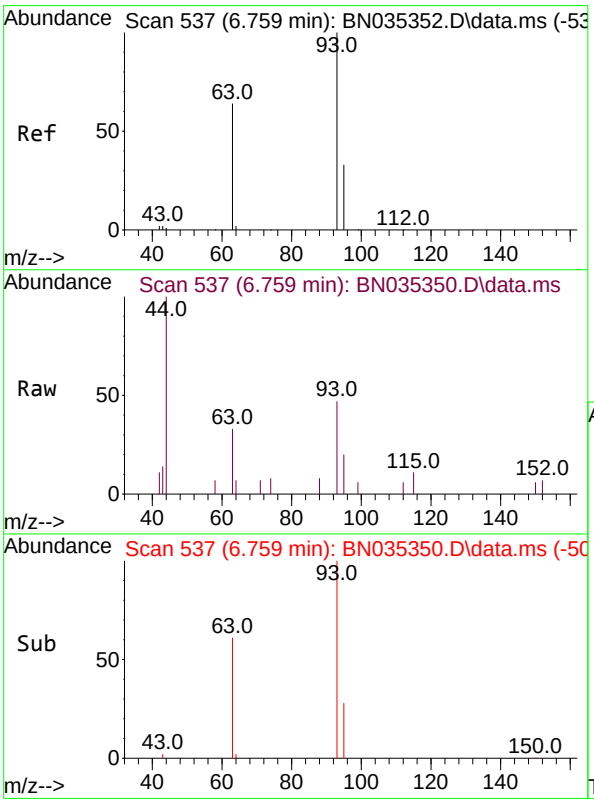
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

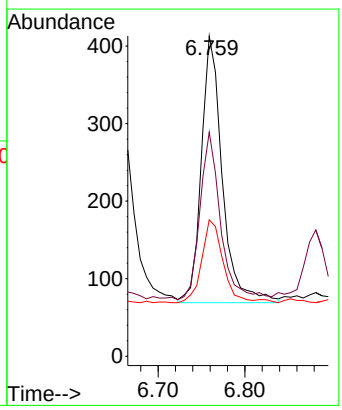
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

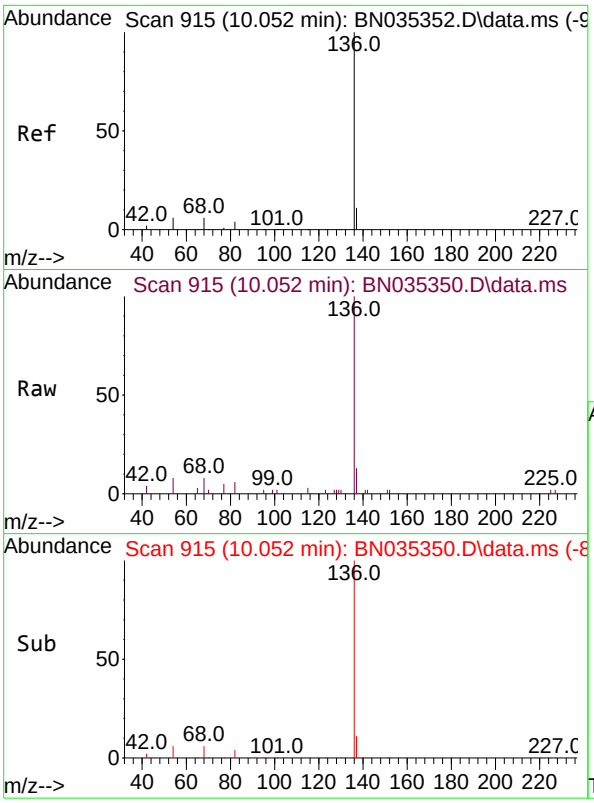


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5

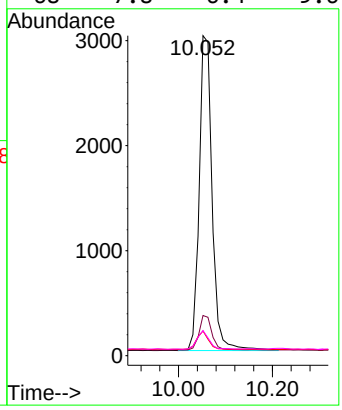




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:136 Resp: 575

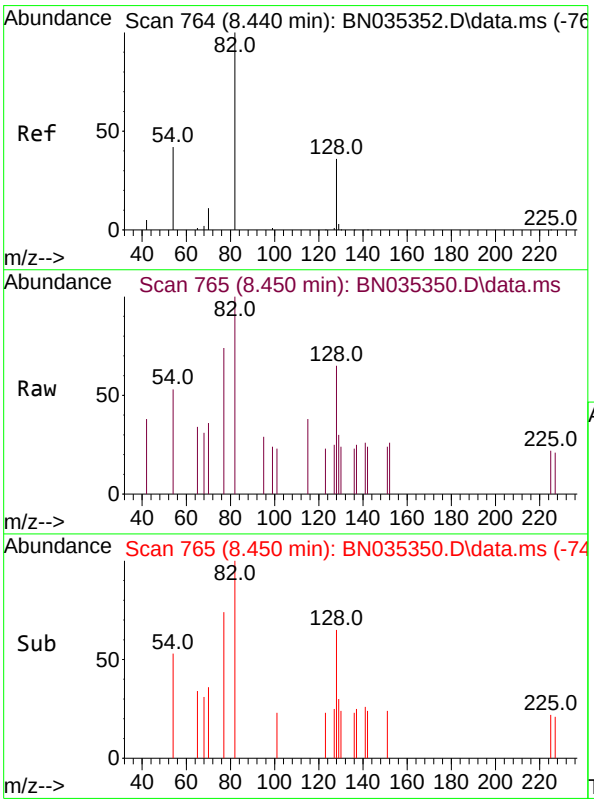
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

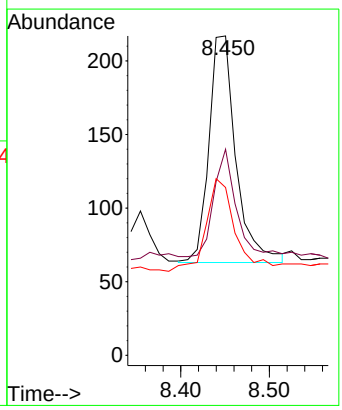
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

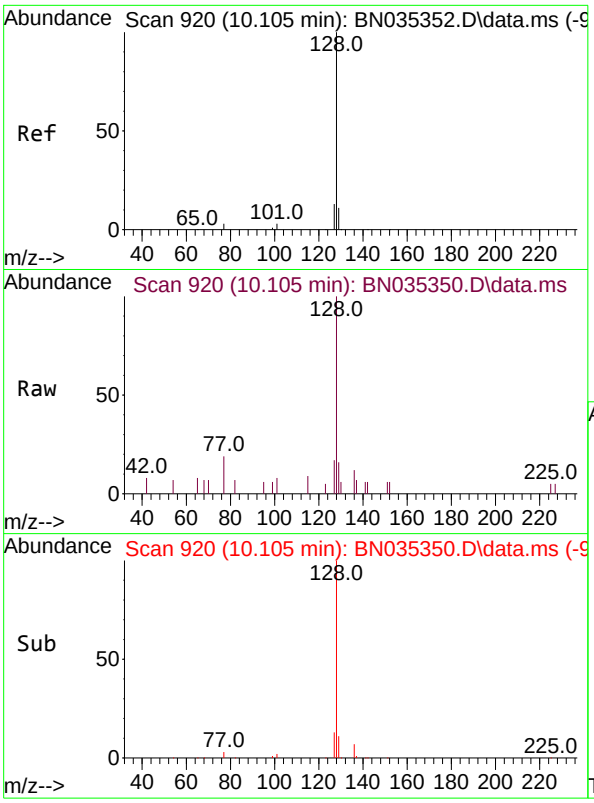


#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1





#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

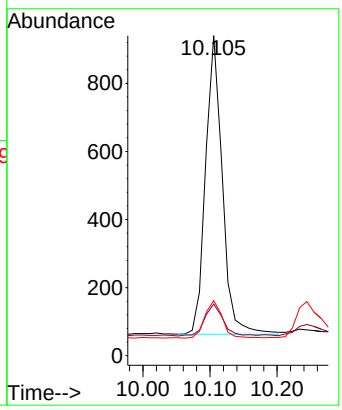
Tgt Ion:128 Resp: 152

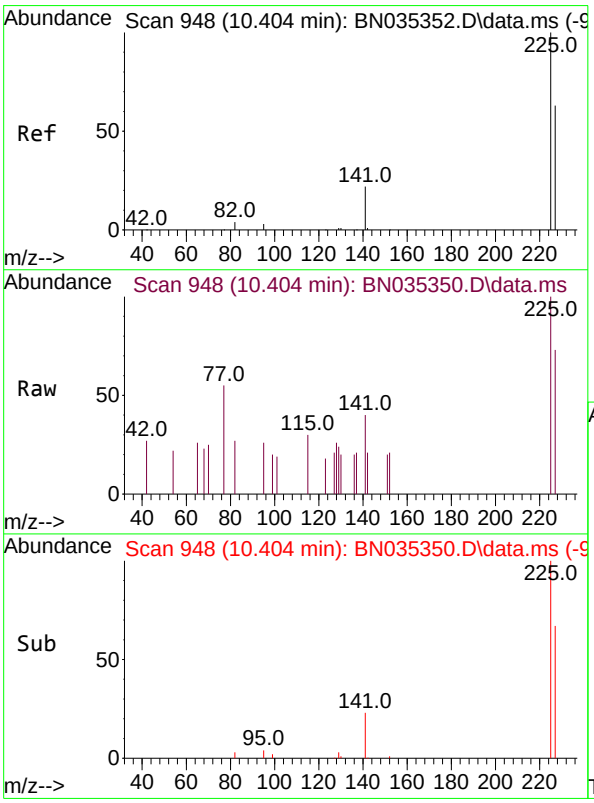
Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

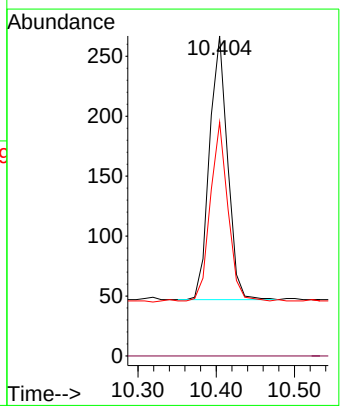


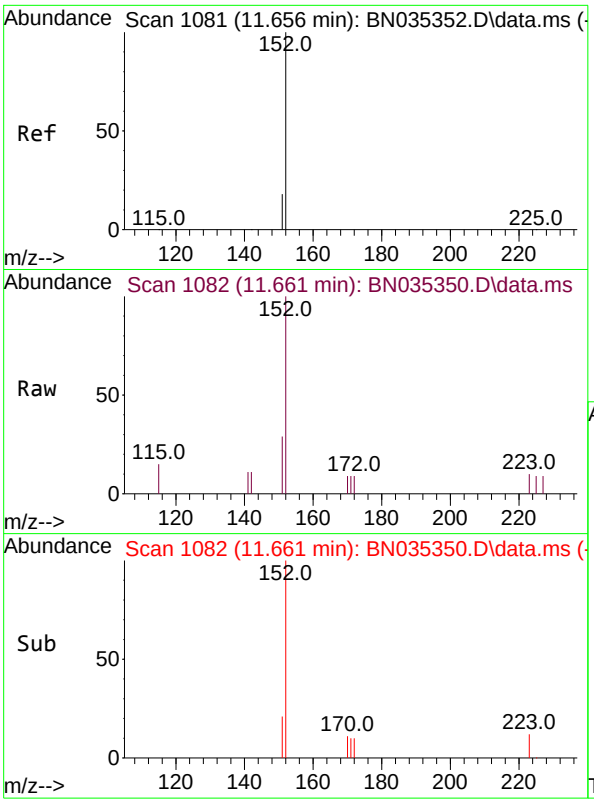


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9

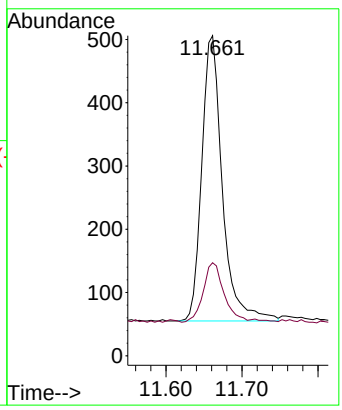




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 85

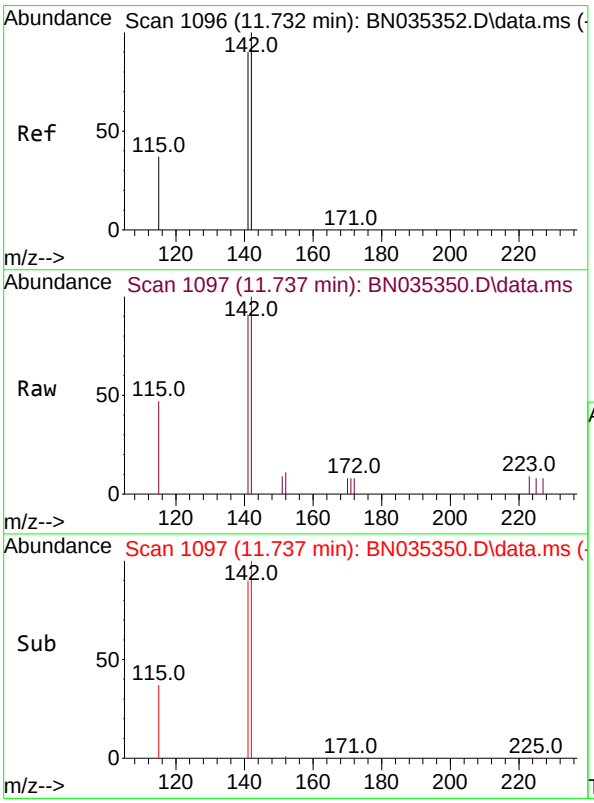
Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

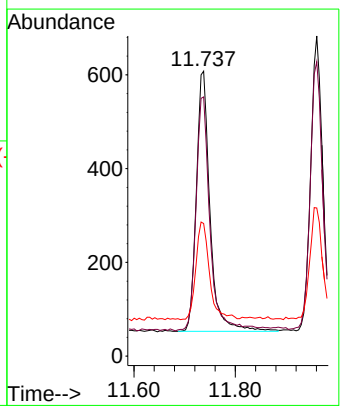
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

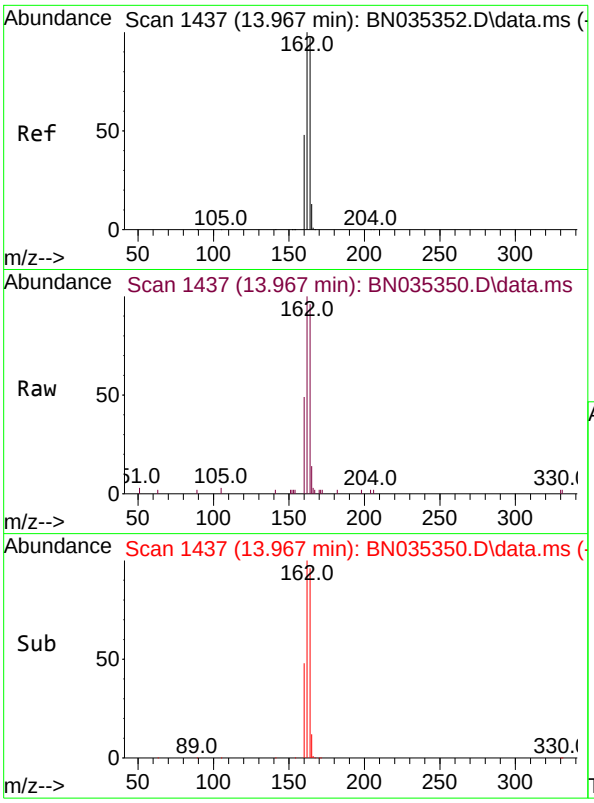


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0

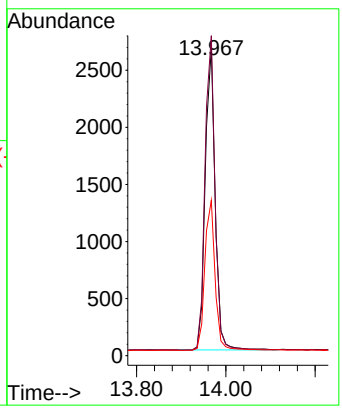




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:164 Resp: 407

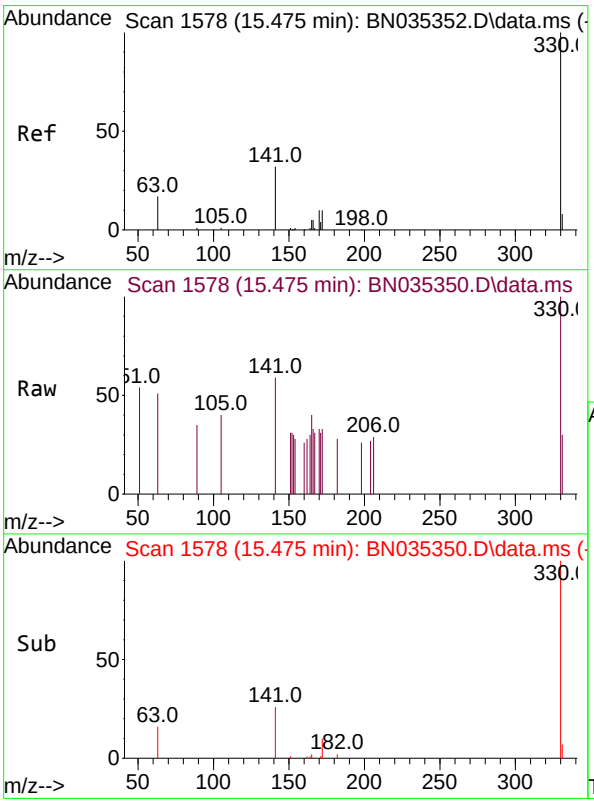
Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

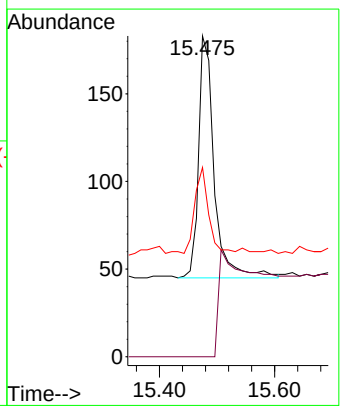
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

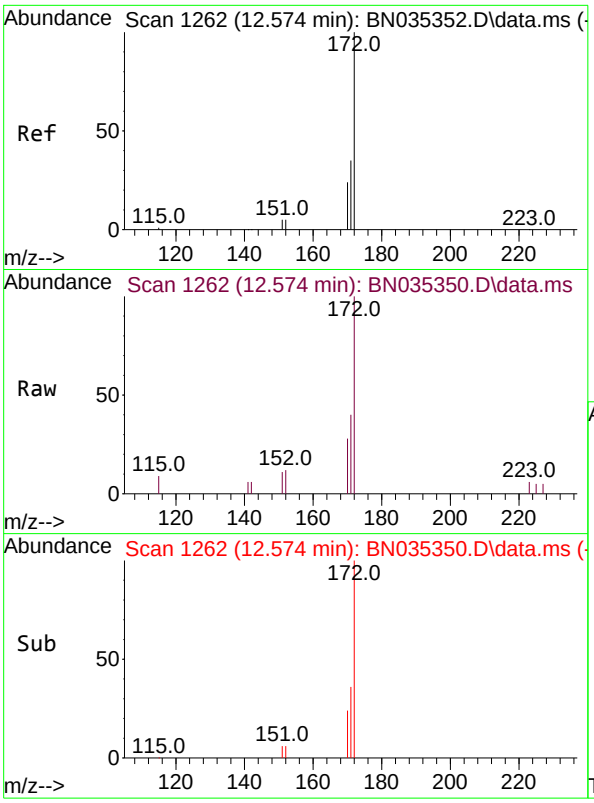


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0

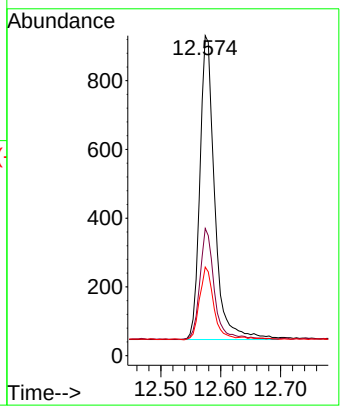




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:172 Resp: 151

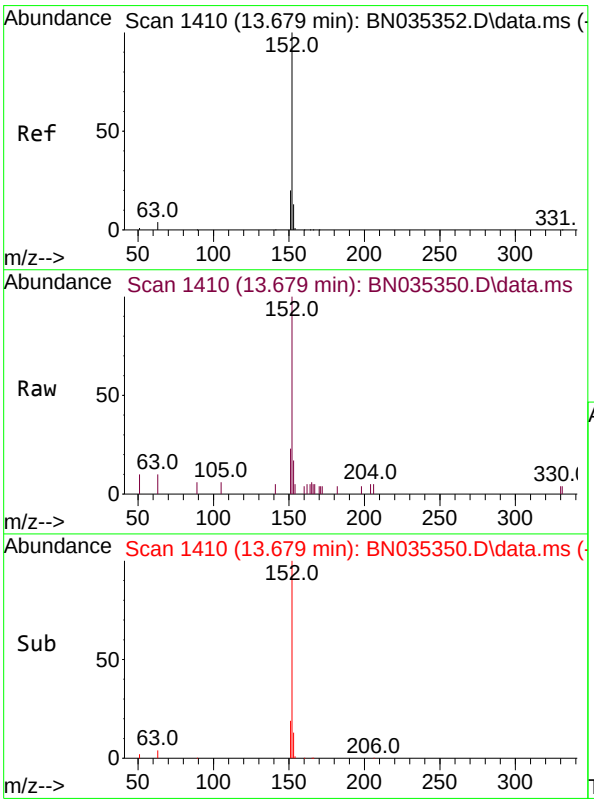
Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

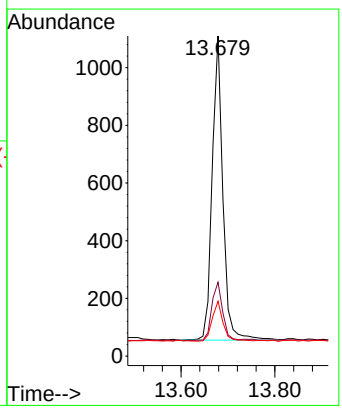
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

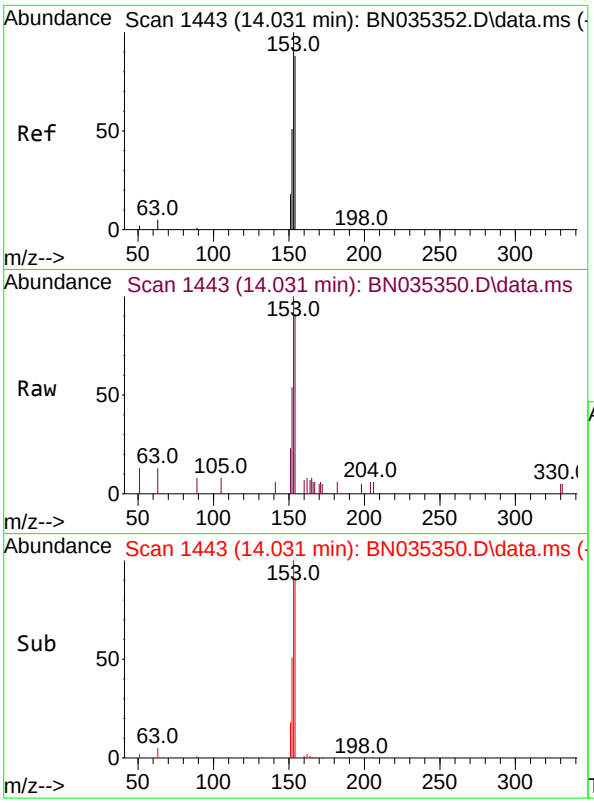


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6

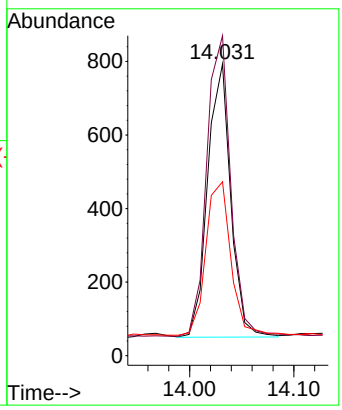




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:154 Resp: 114

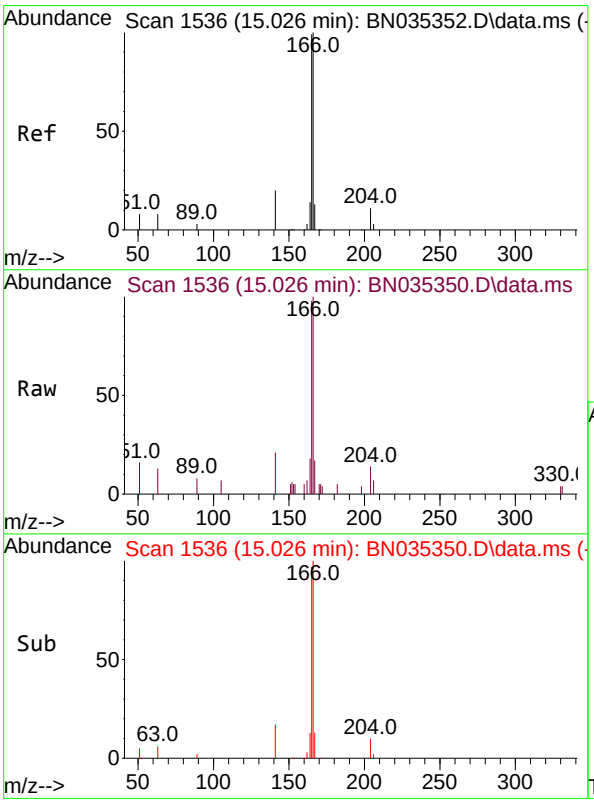
Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

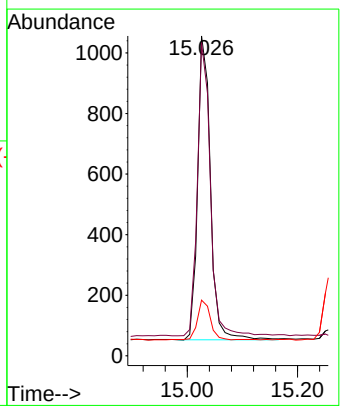
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

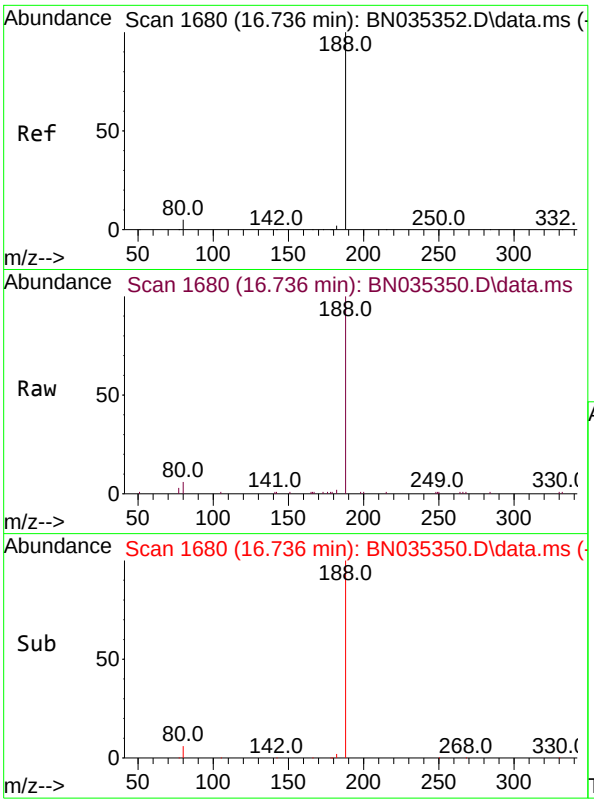


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2

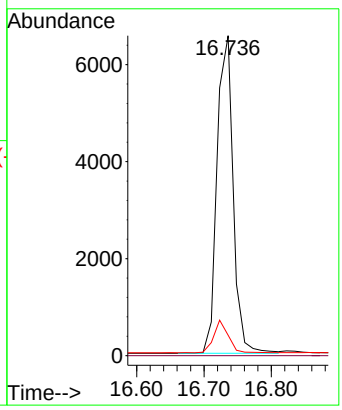




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:188 Resp: 1085

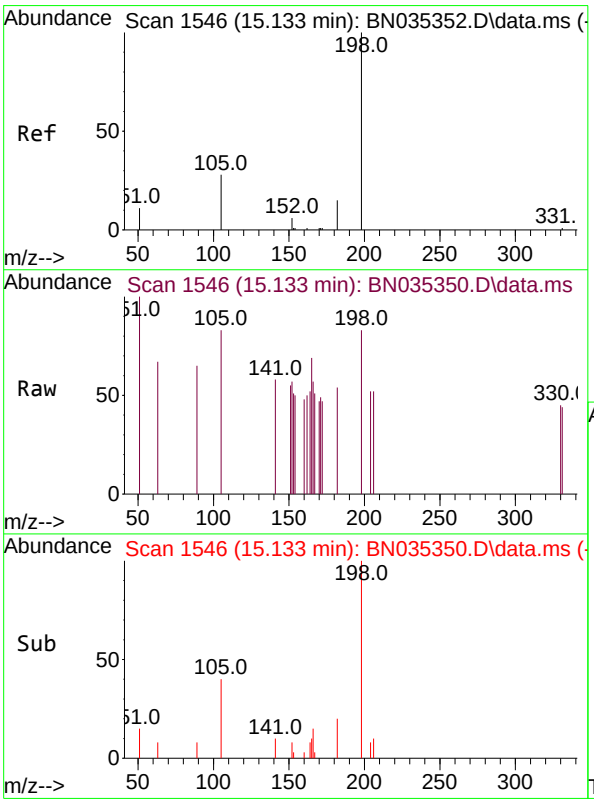
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

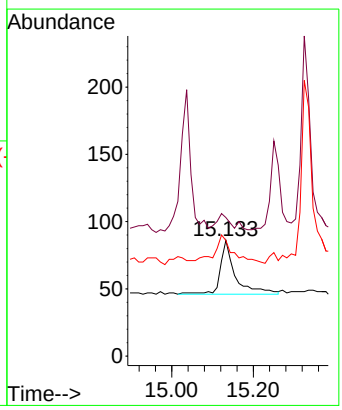
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

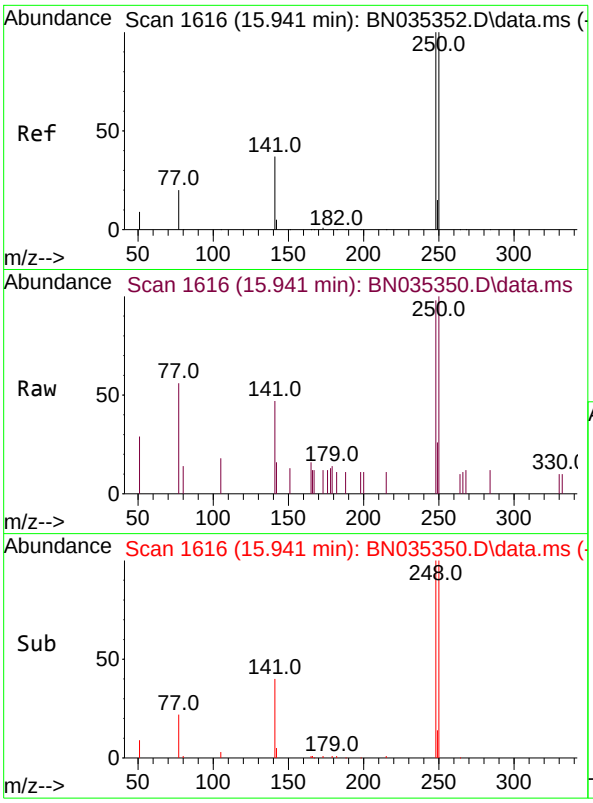


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#

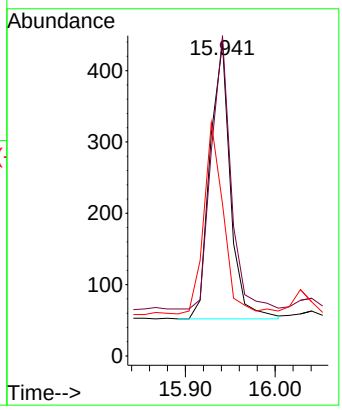




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:248 Resp: 61

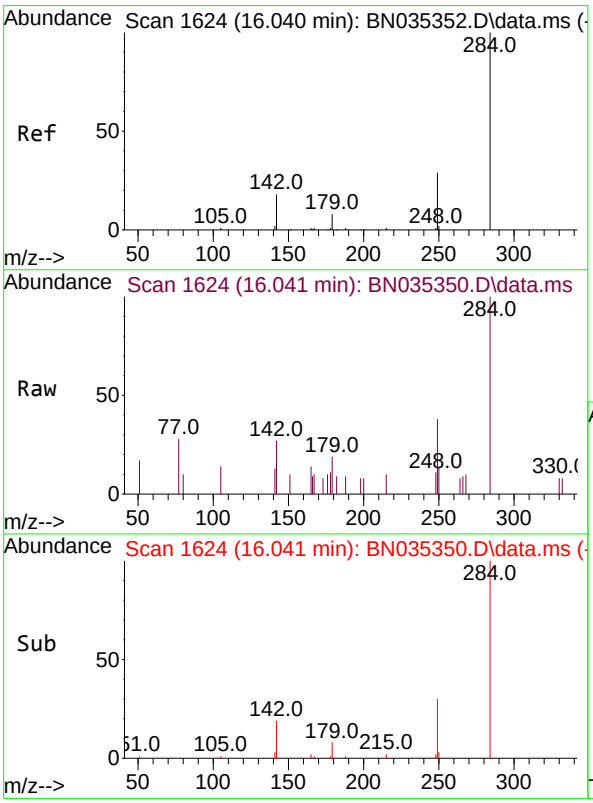
Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

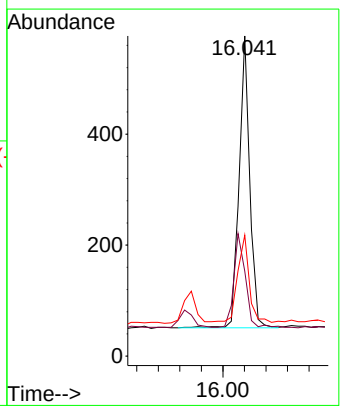
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

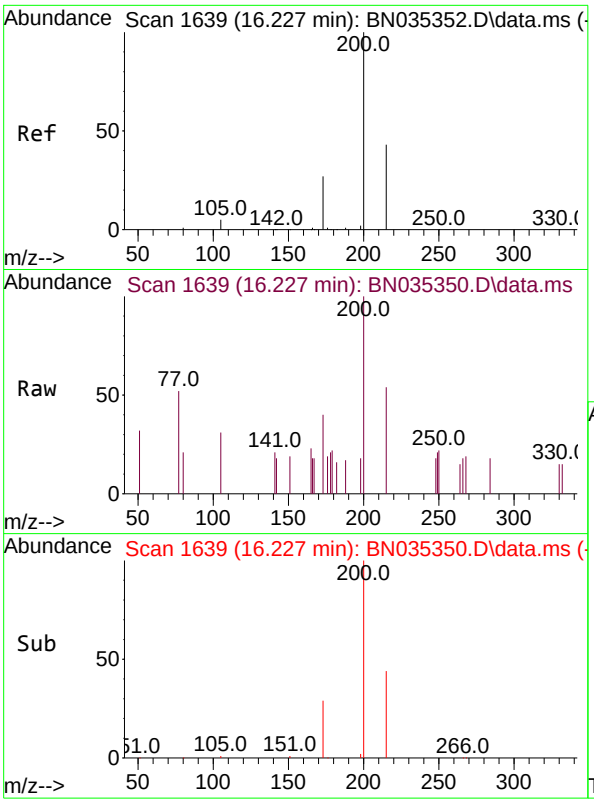


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8

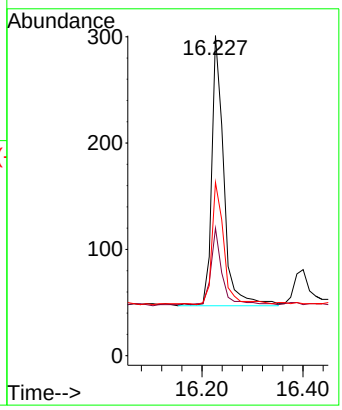




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:200 Resp: 42

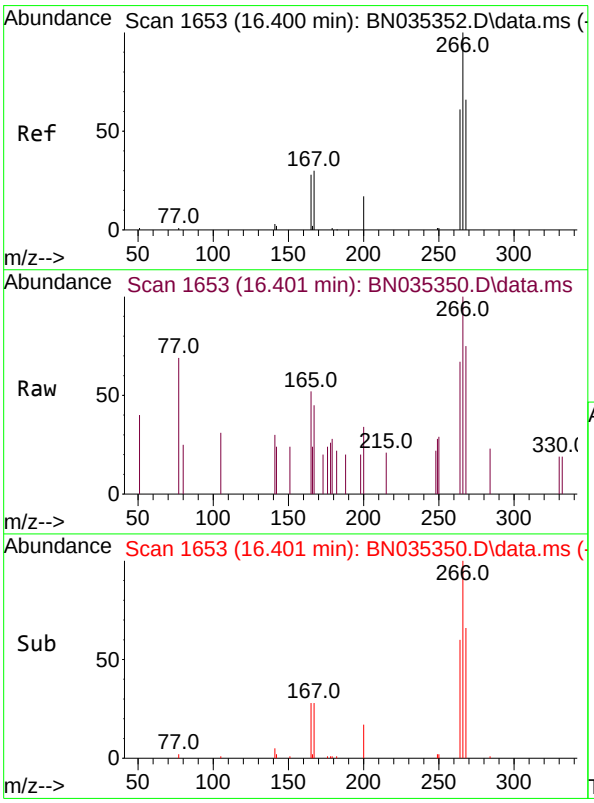
Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1
215	54.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

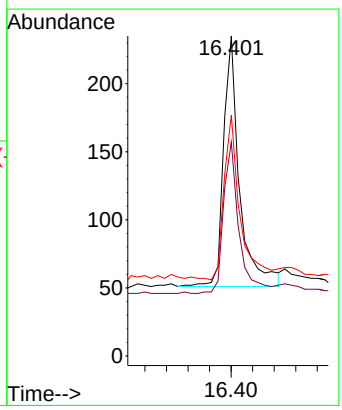
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

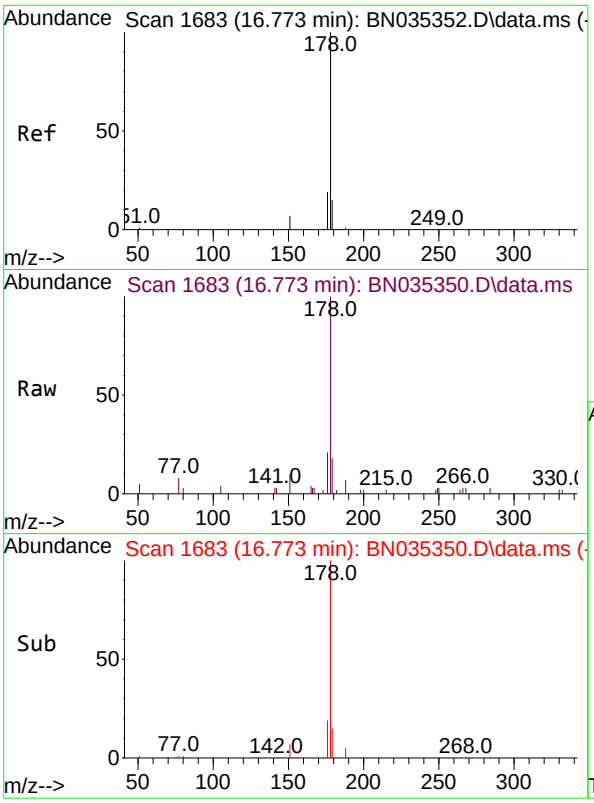


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9

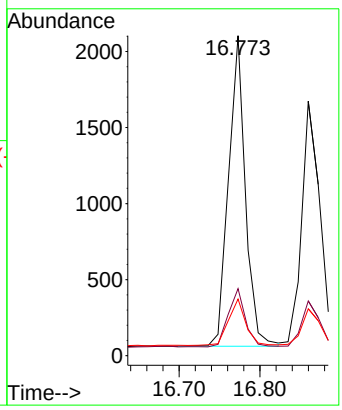




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 296

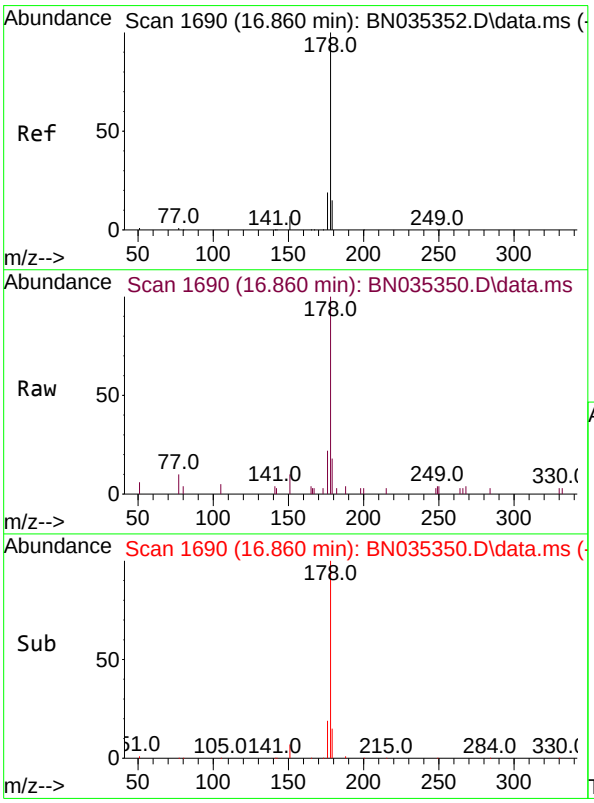
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

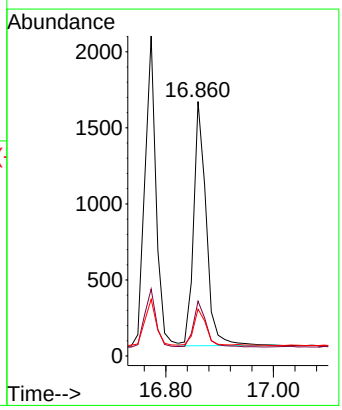
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

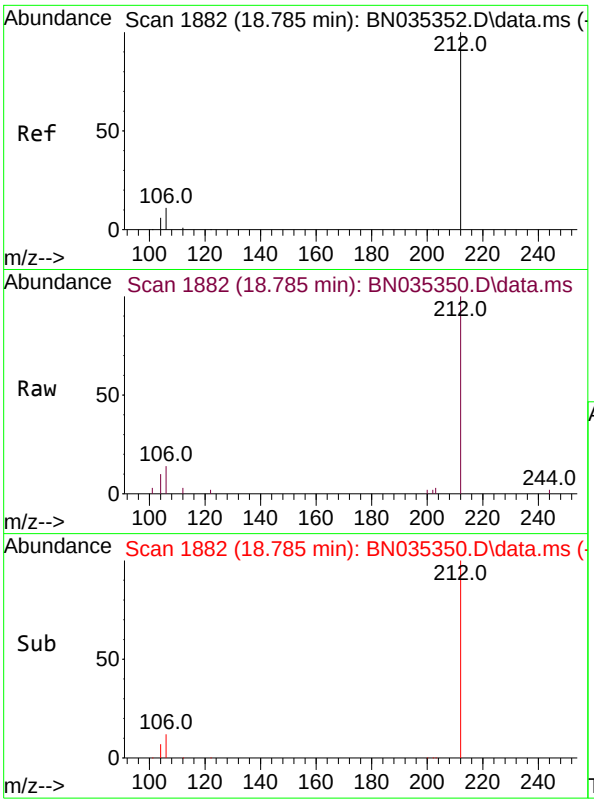


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8

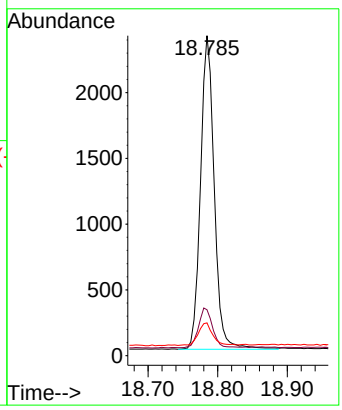




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:212 Resp: 326

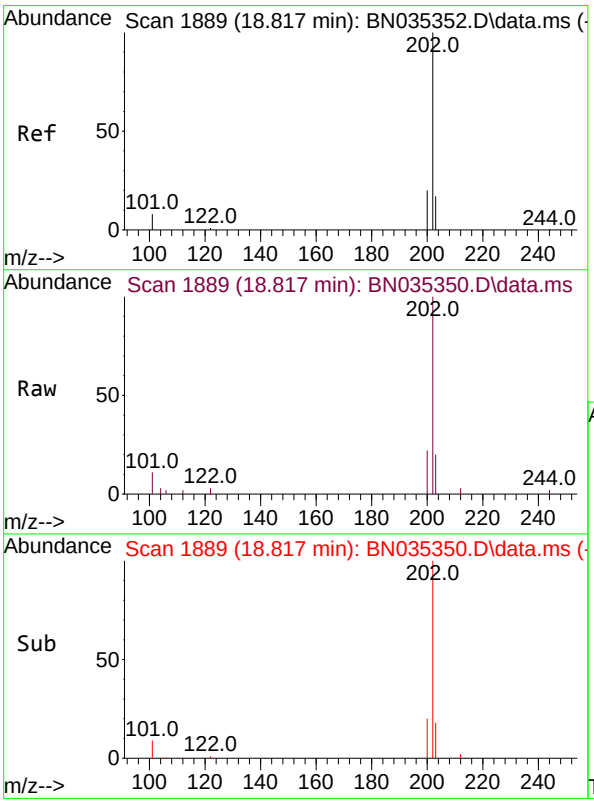
Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

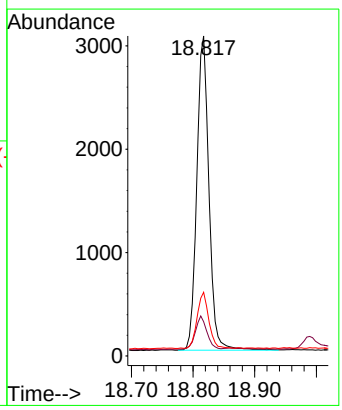
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

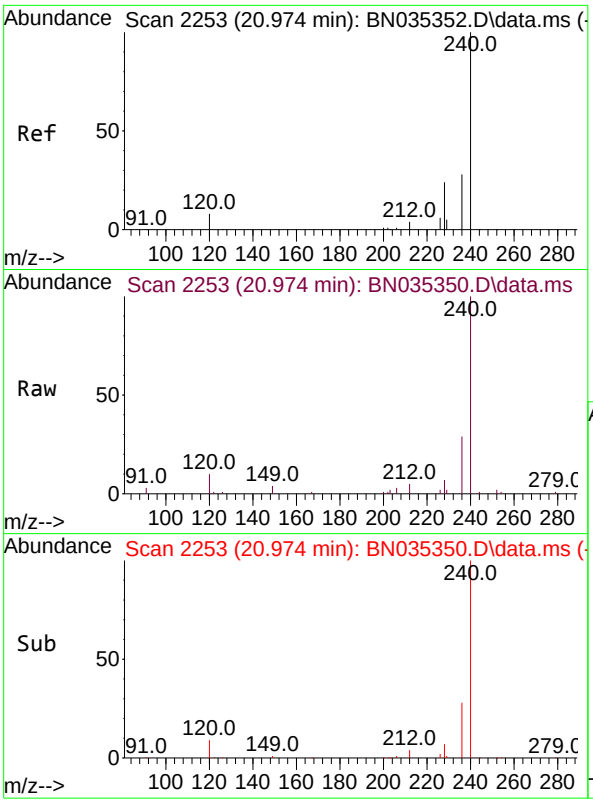


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5

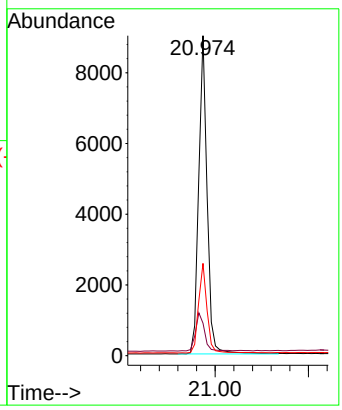




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:240 Resp: 1126

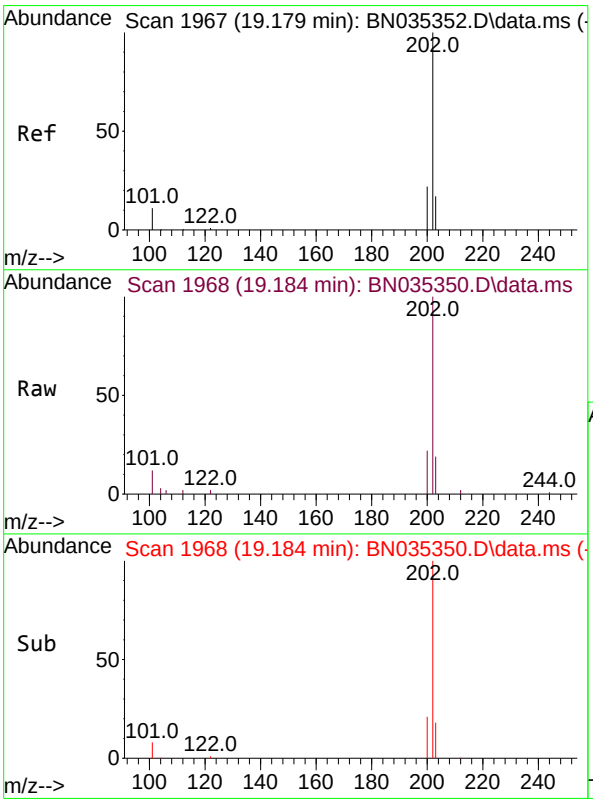
Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

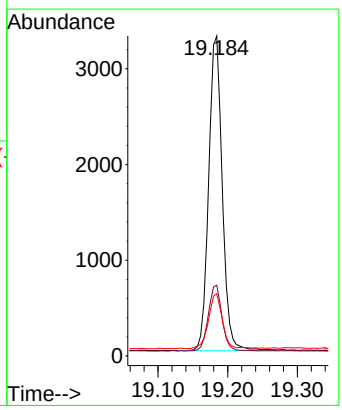
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

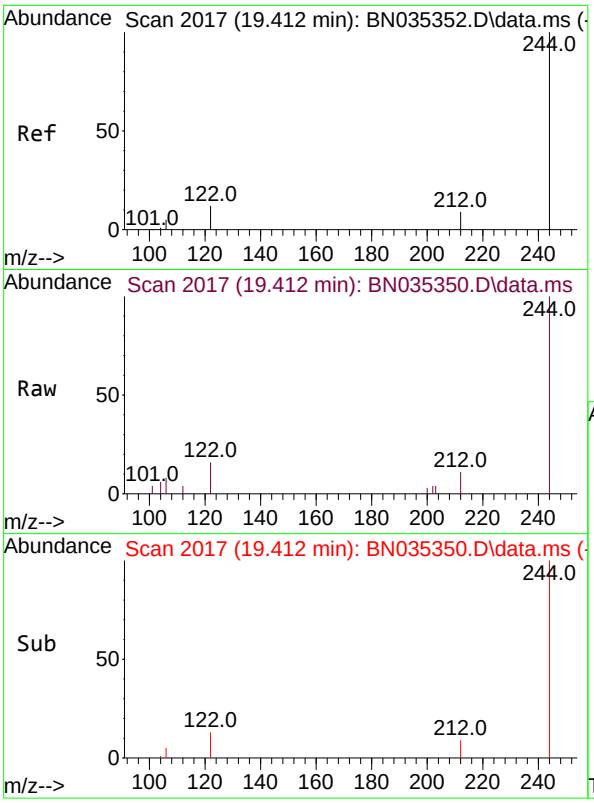


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5

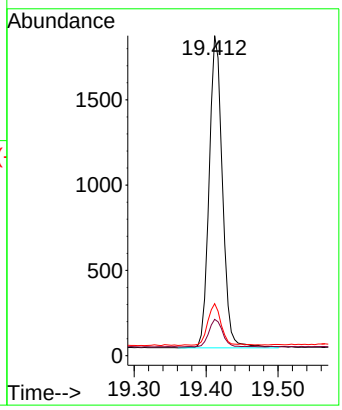




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:244 Resp: 234

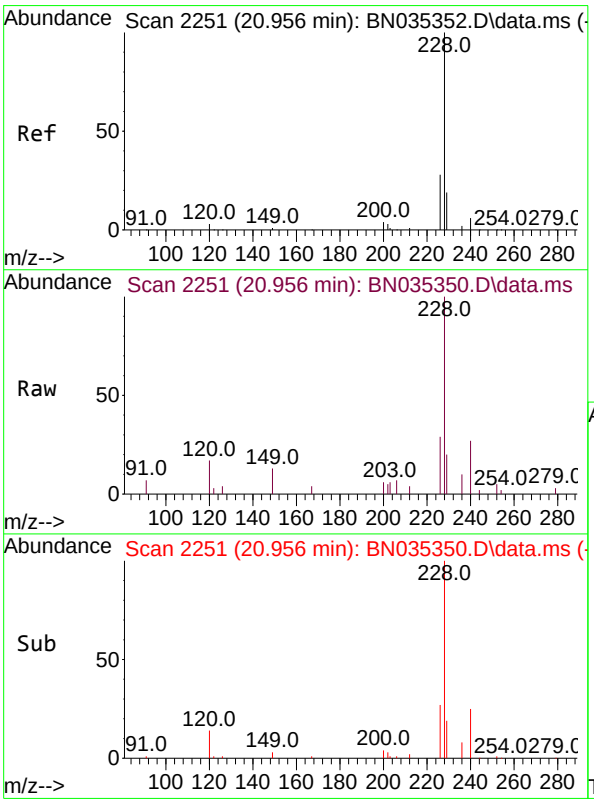
Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

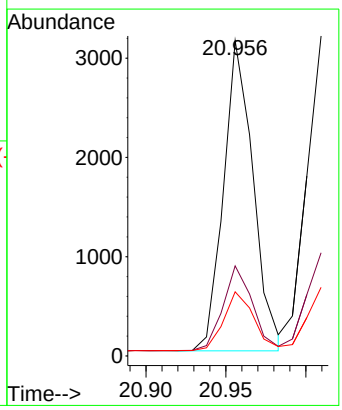
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

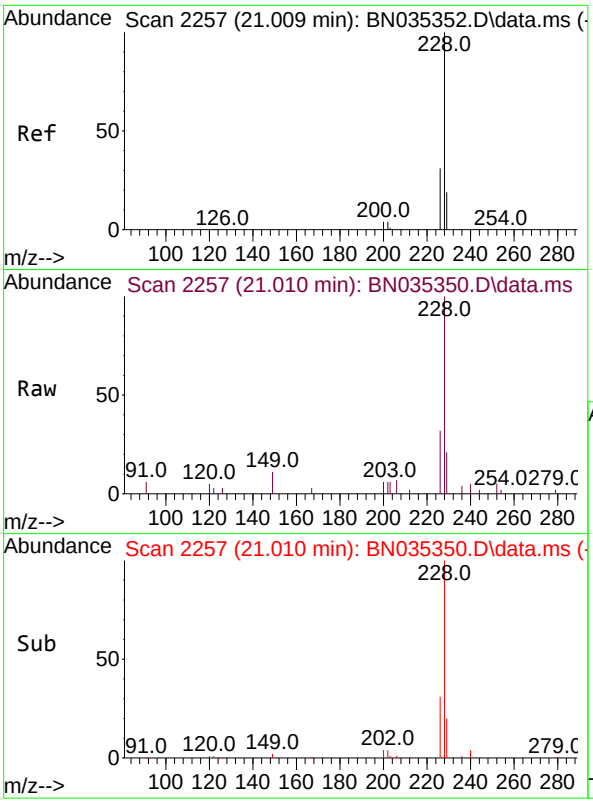


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8

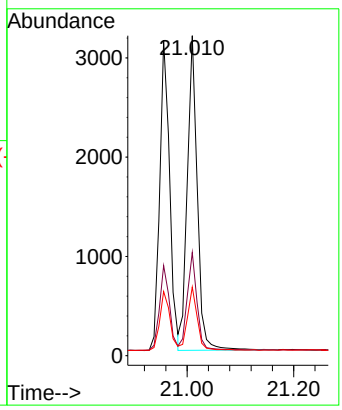




#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 412

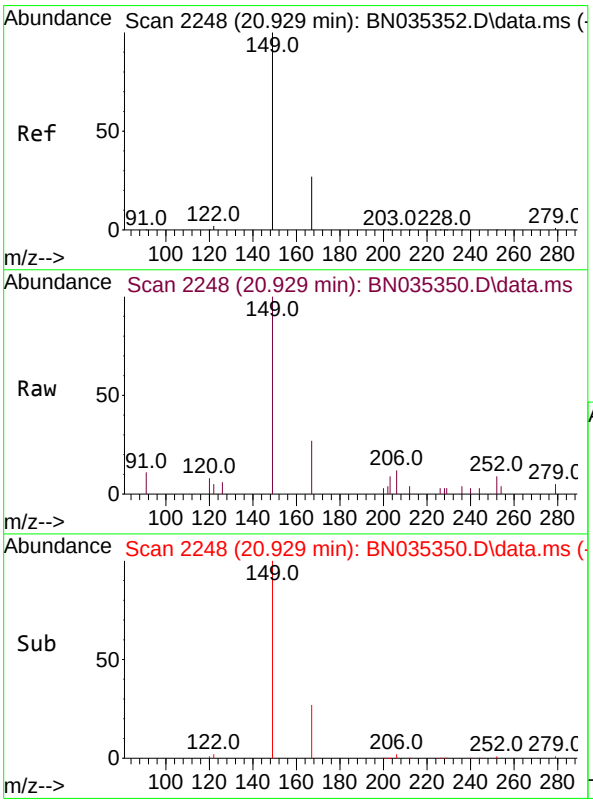
Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

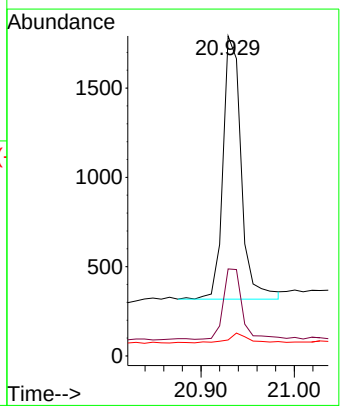
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

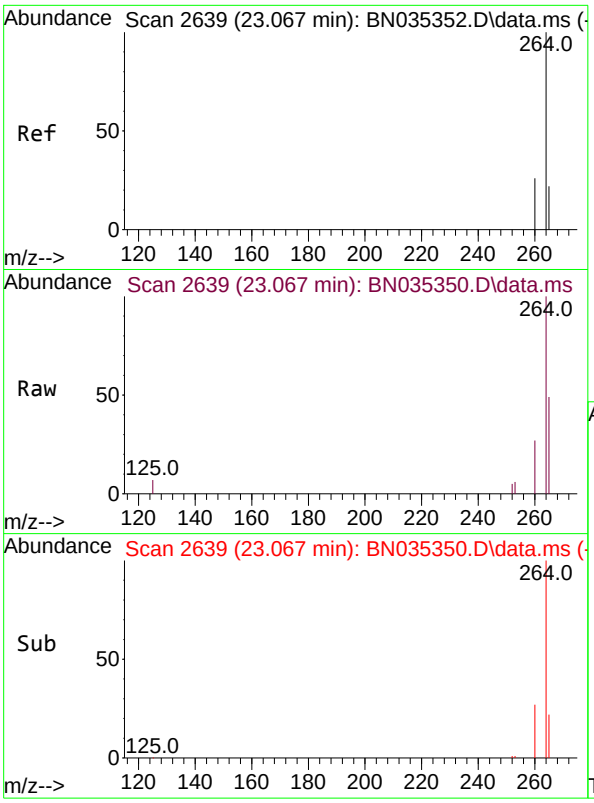


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1

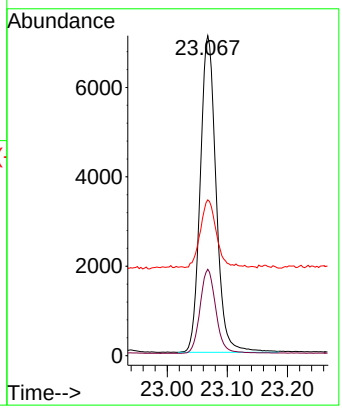




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:264 Resp: 1300

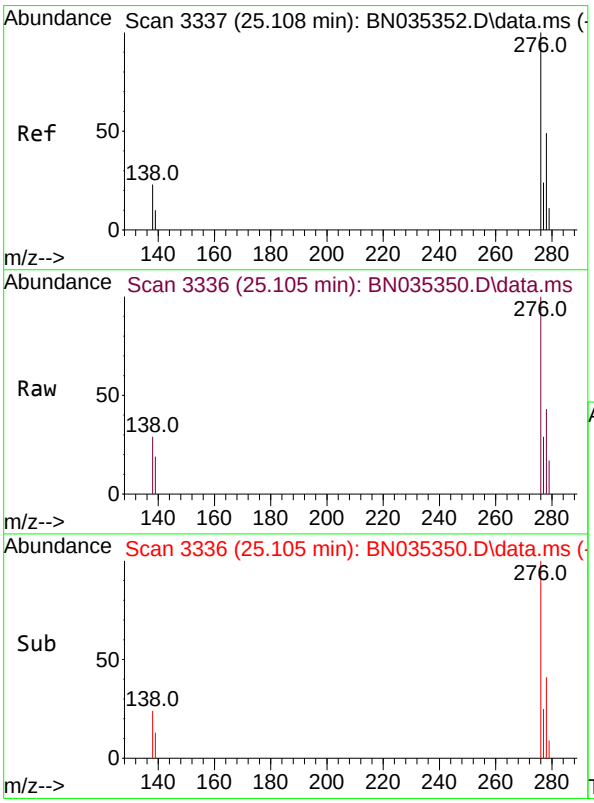
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

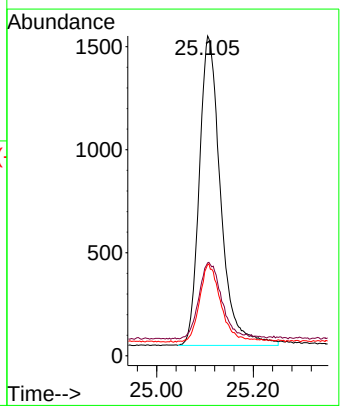
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

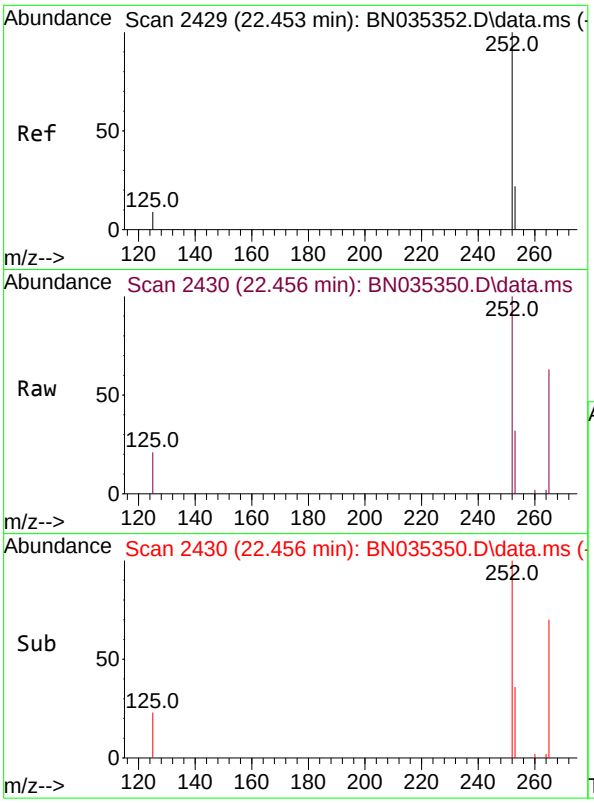


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6

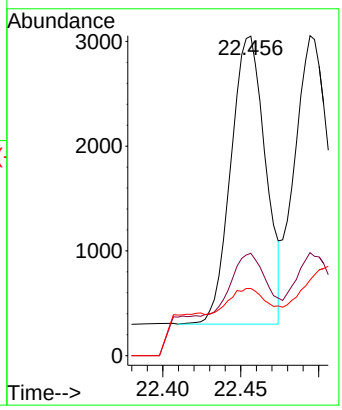




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 424

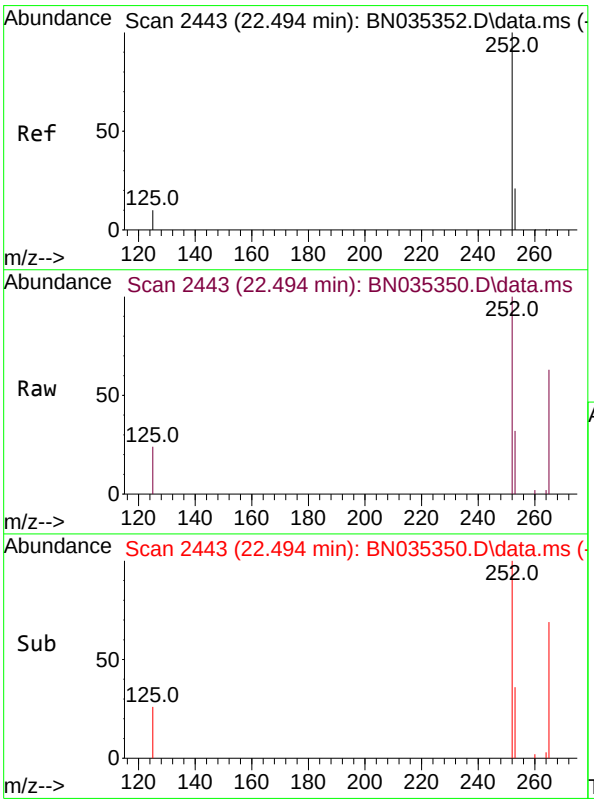
Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

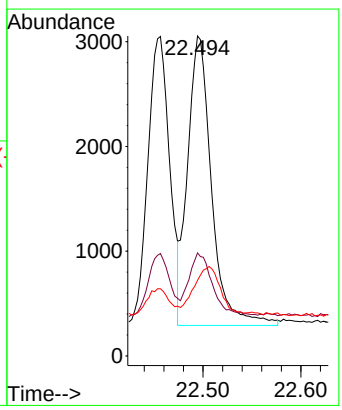
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

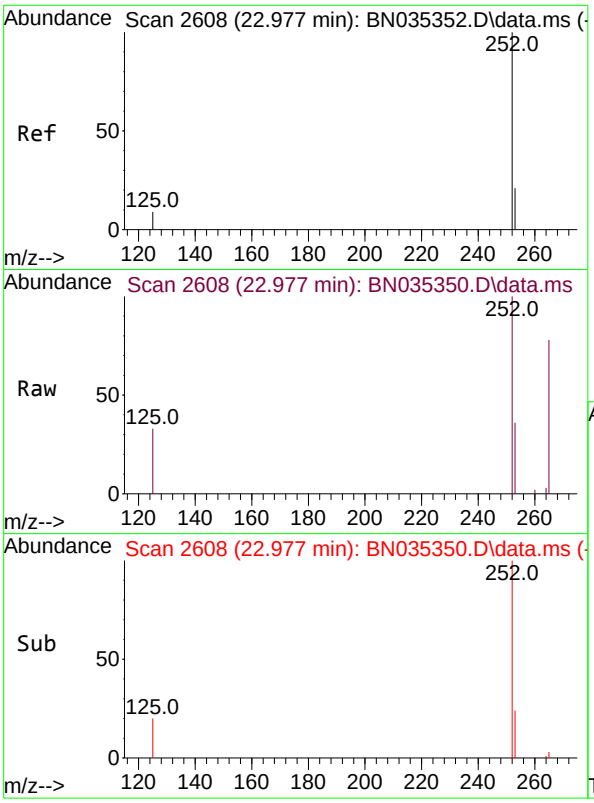


#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4695

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#

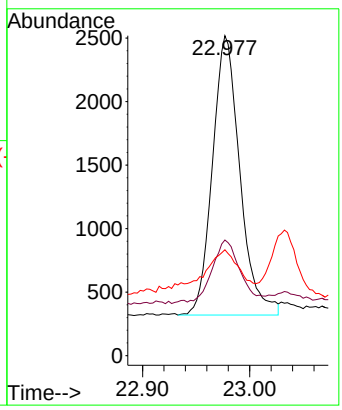




#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 391

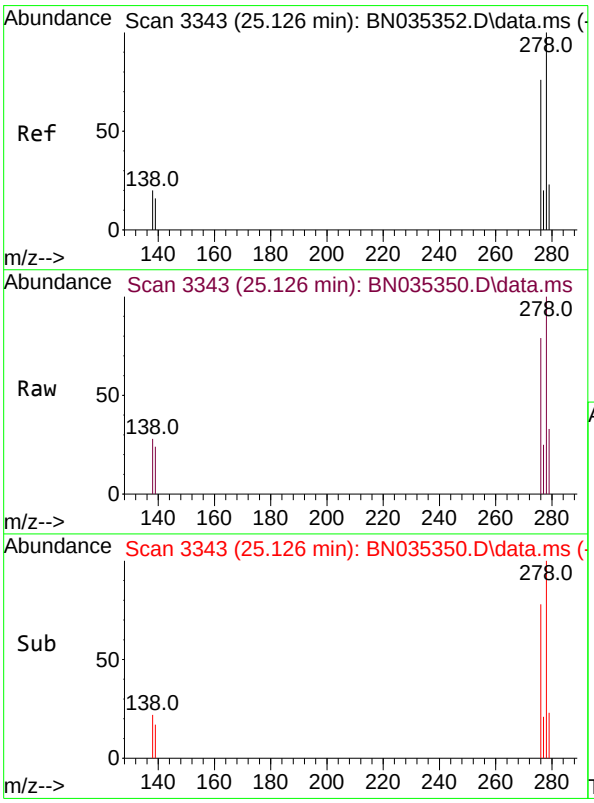
Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

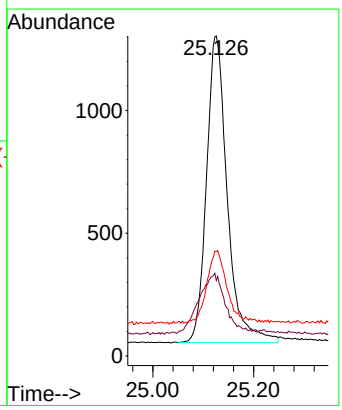
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

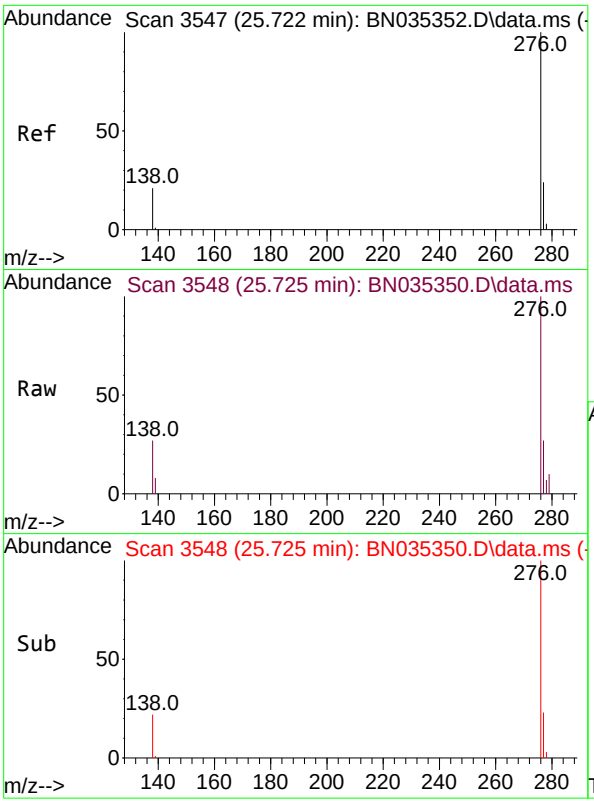


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#

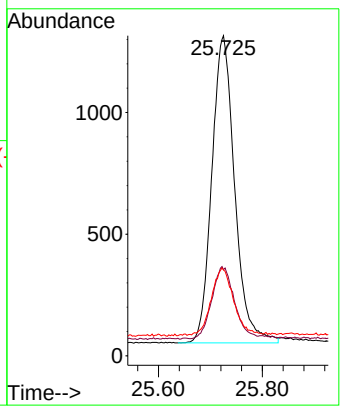




#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 386

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	618m	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.497	252	7675m	0.204	ng	
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

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

ICAL Form

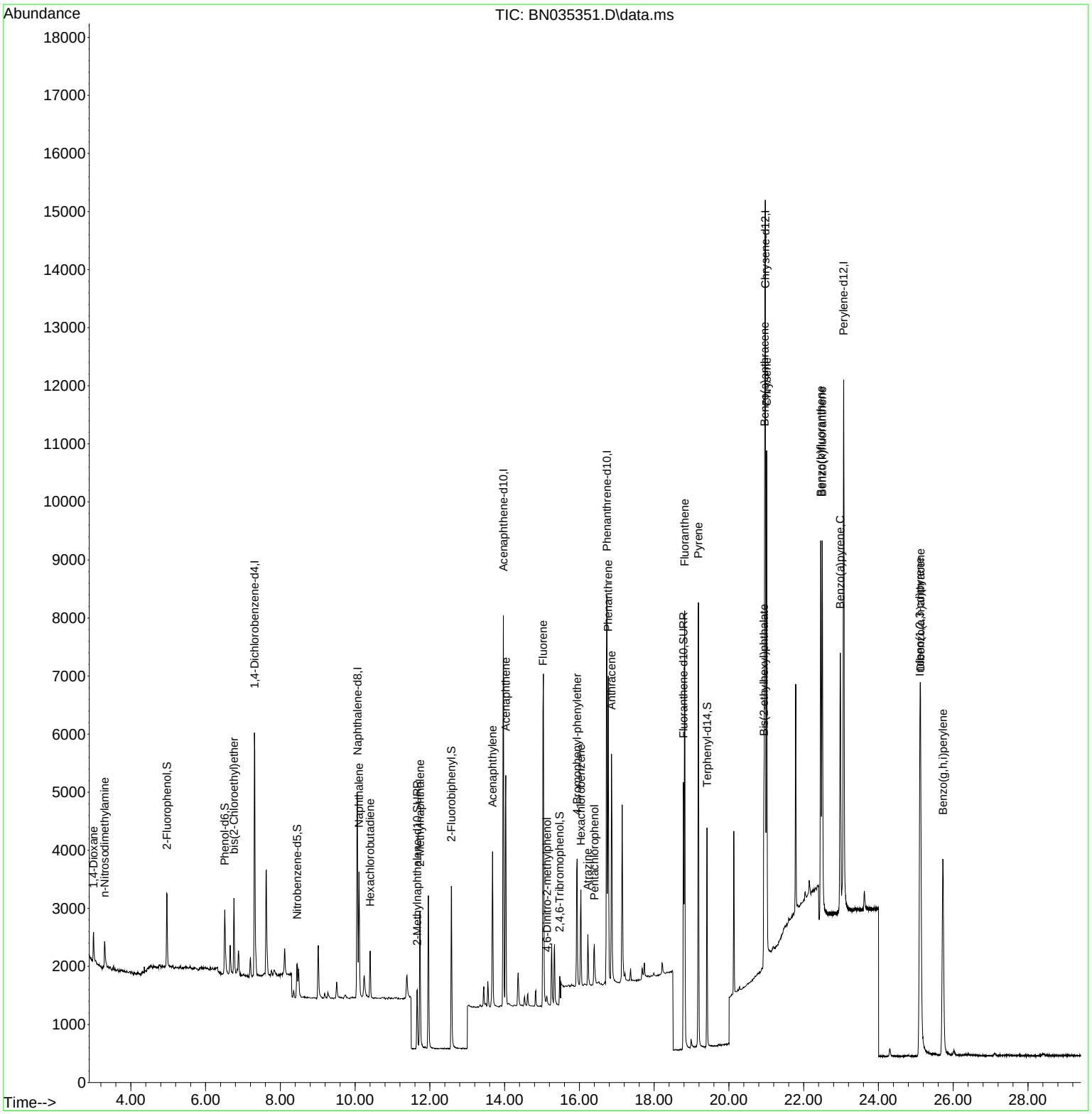
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

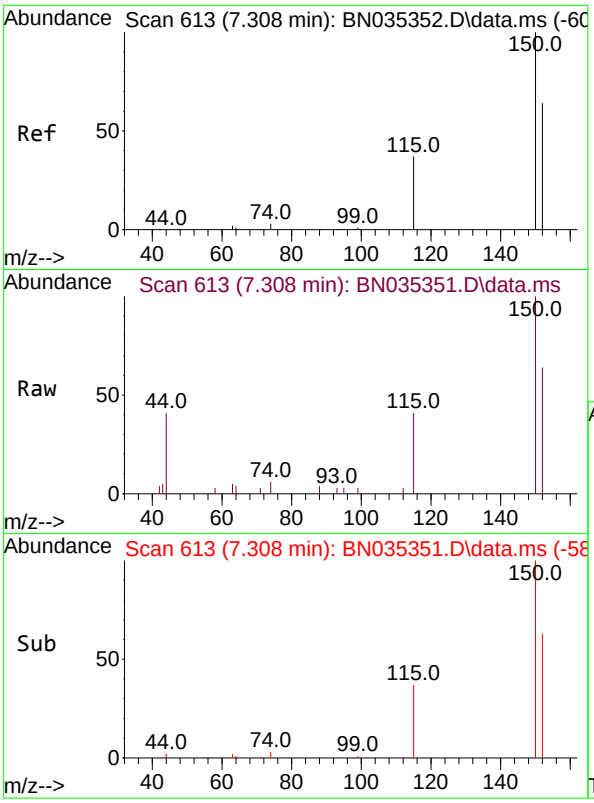
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

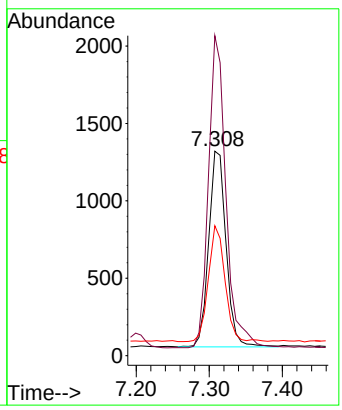




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 208

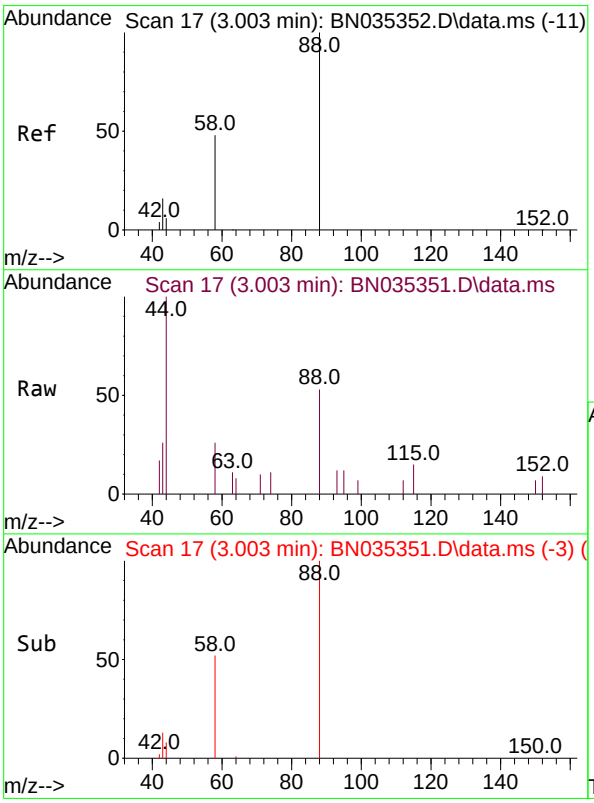
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

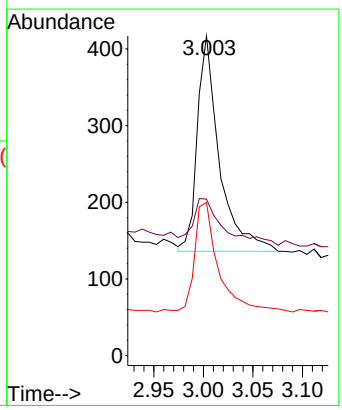
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

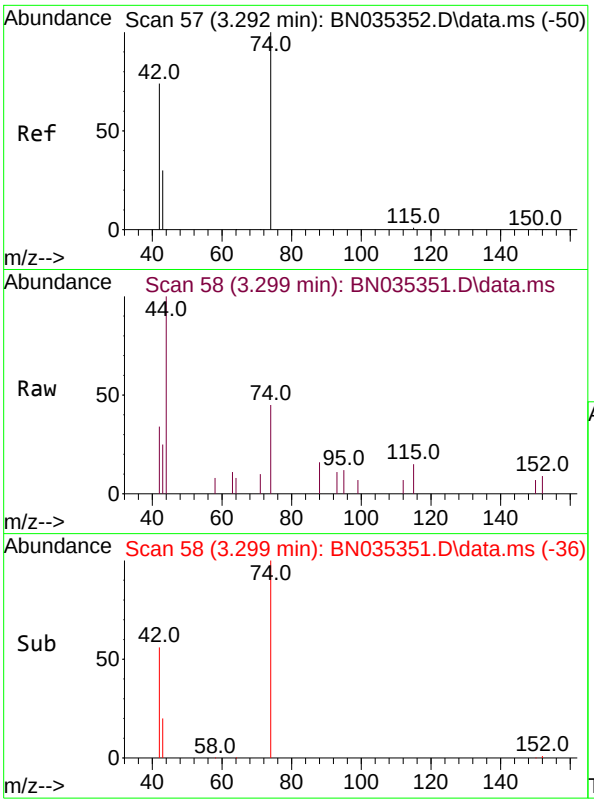


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7

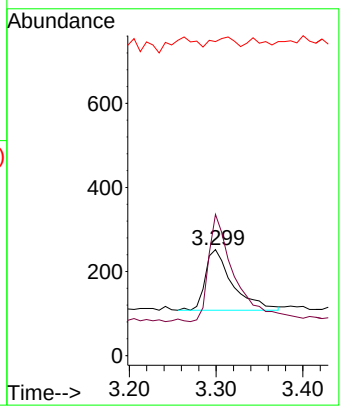




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 42 Resp: 31

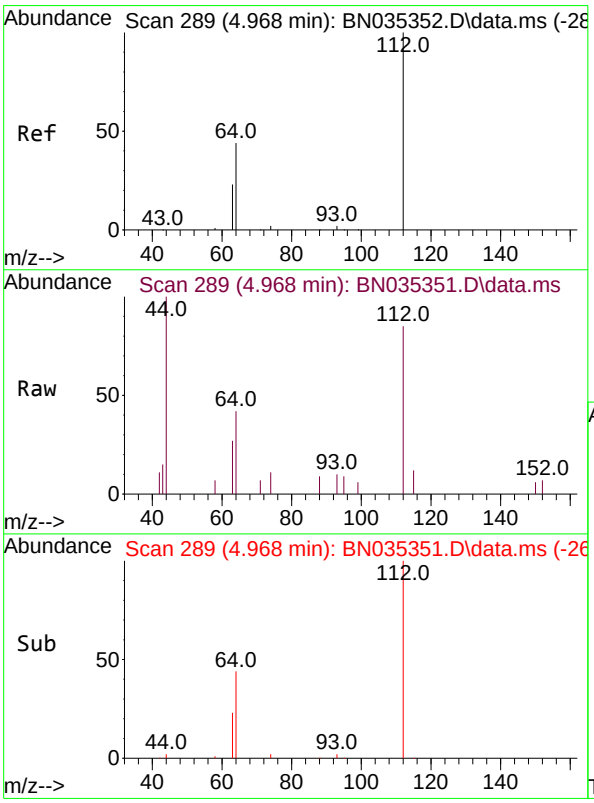
Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

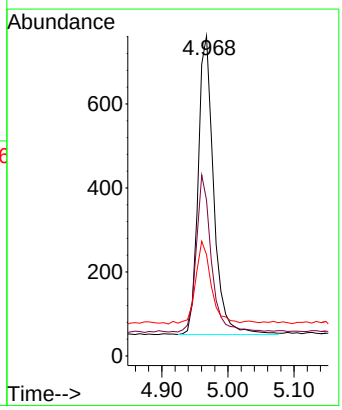
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

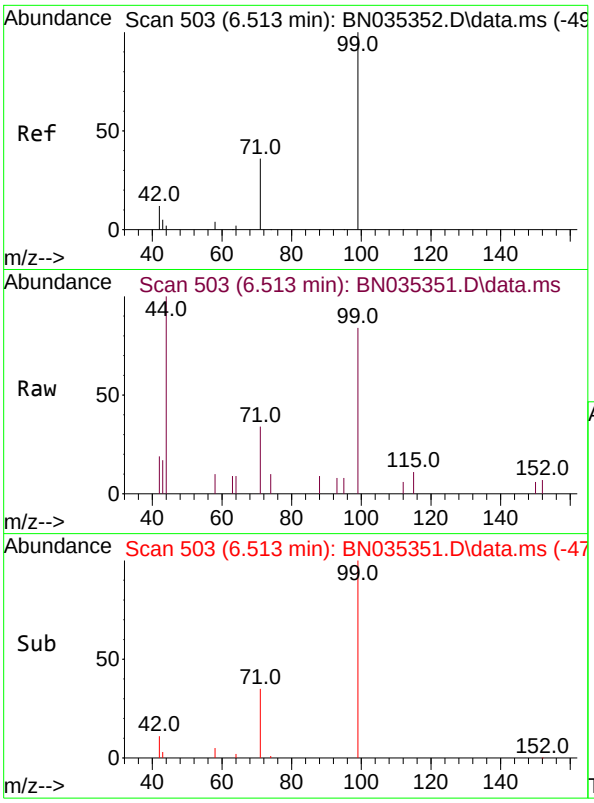


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6

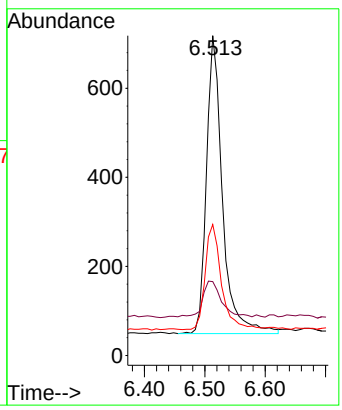




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 99 Resp: 123(

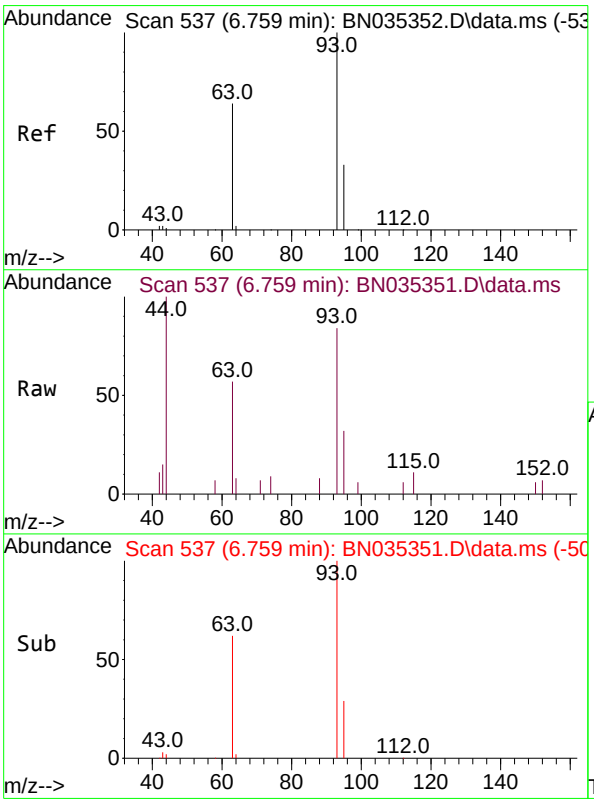
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

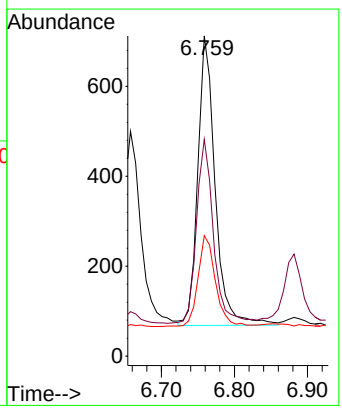
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

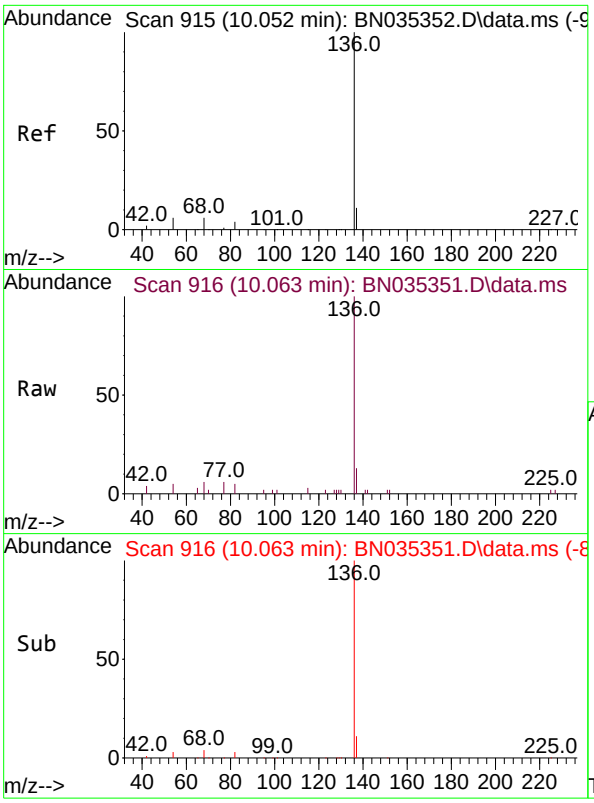


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5

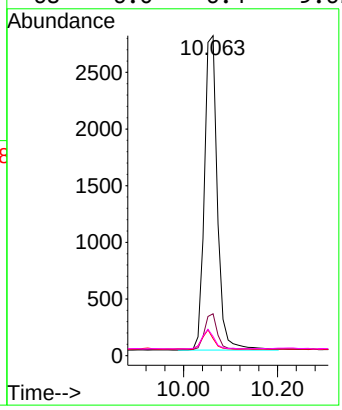




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:136 Resp: 533

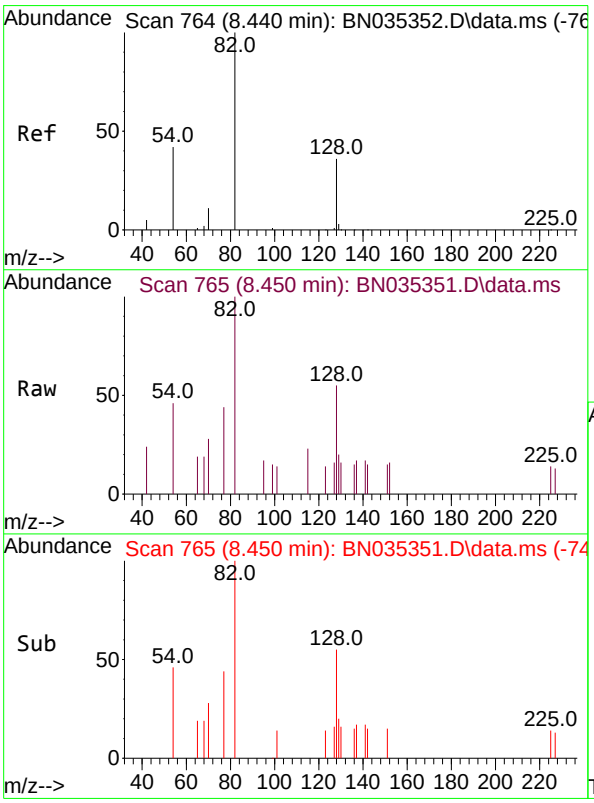
Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

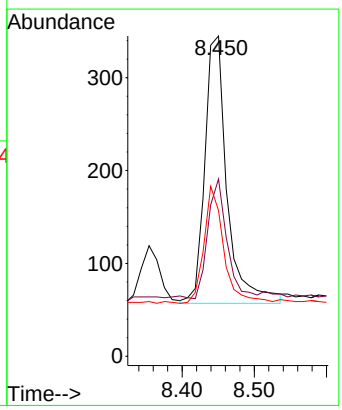
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

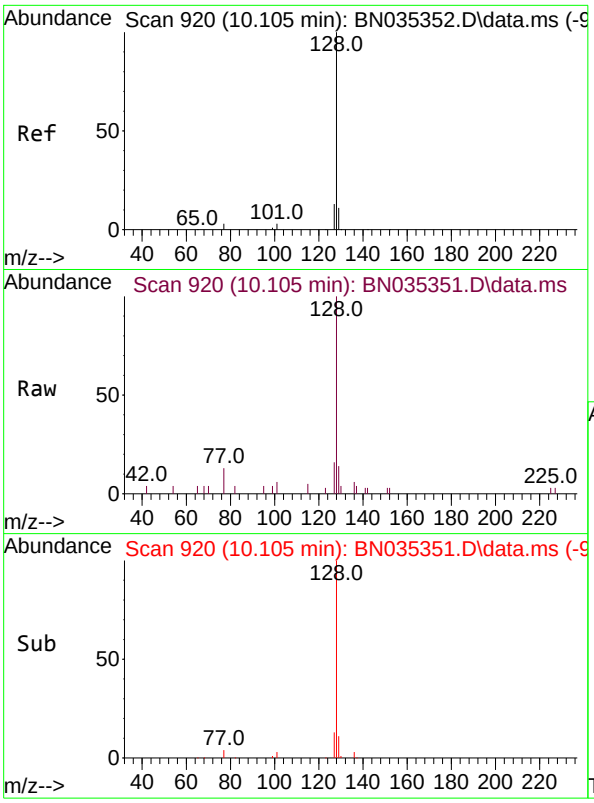


#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1

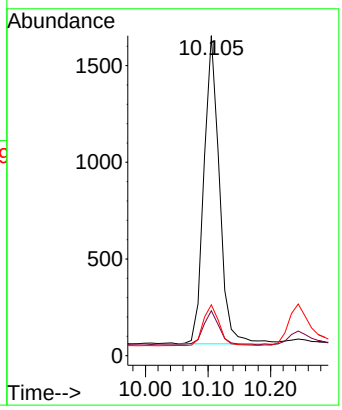




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:128 Resp: 274

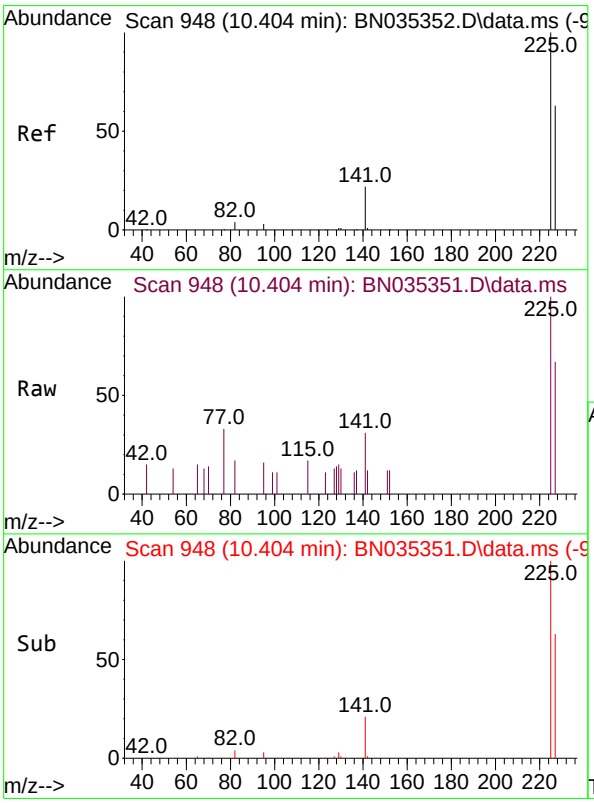
Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

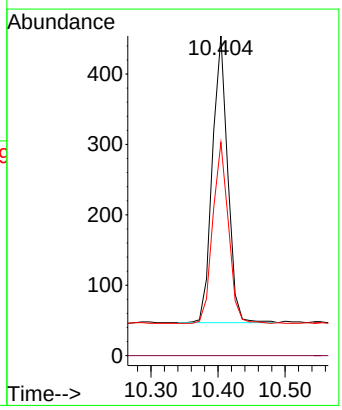
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

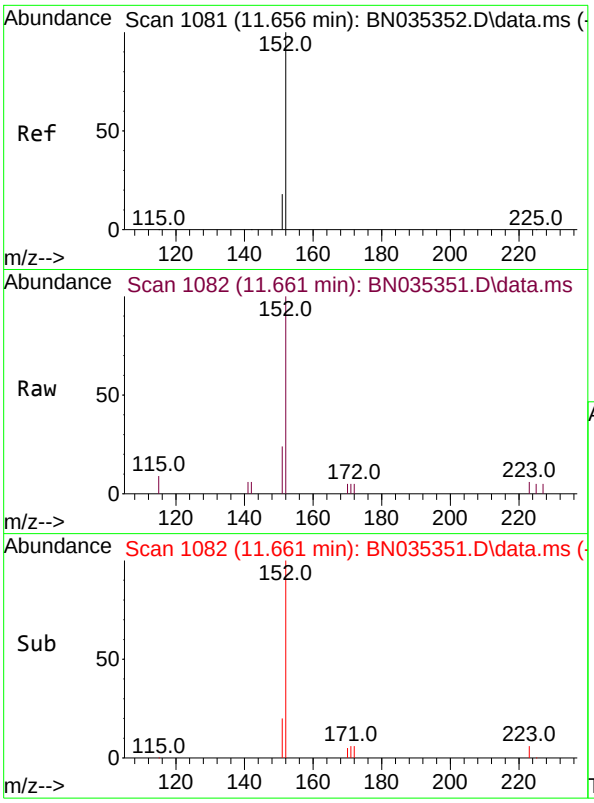


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

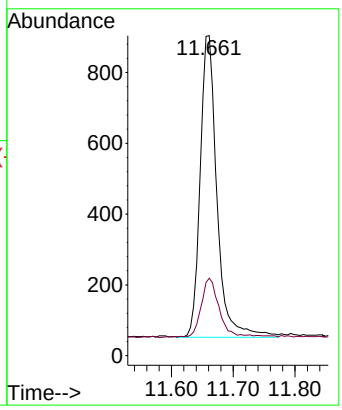




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 160

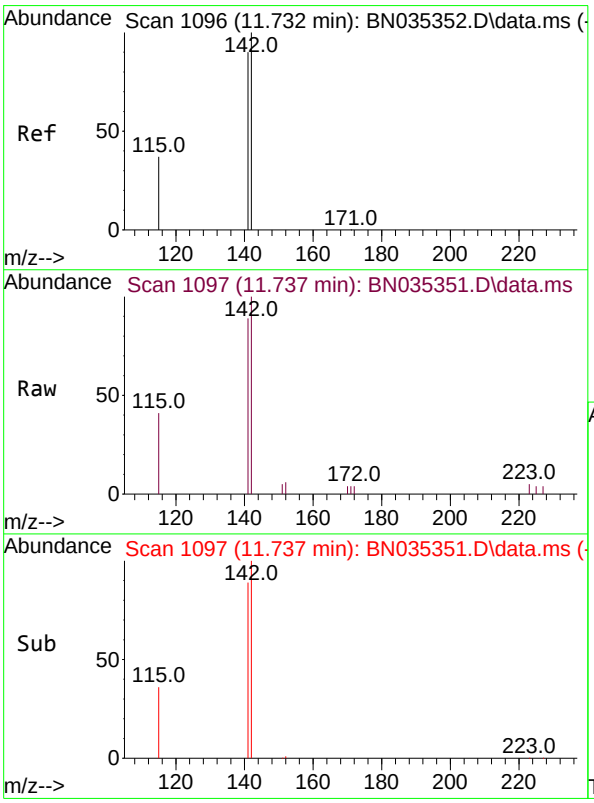
Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

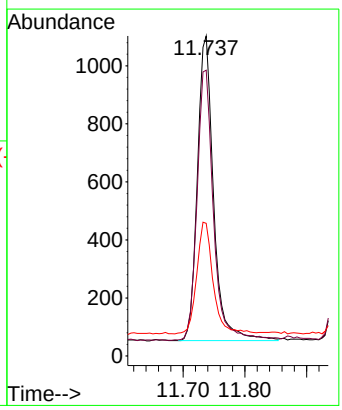
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

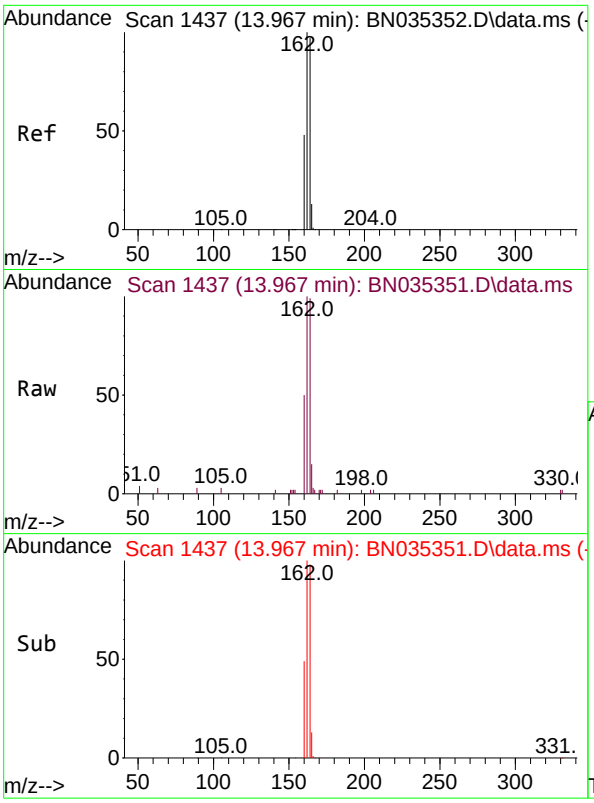


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0

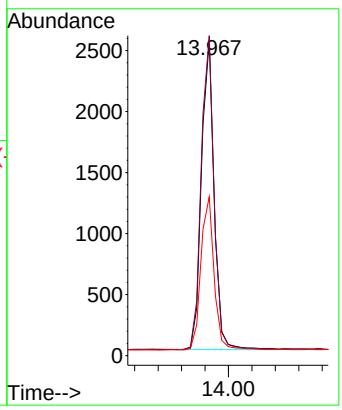




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 380

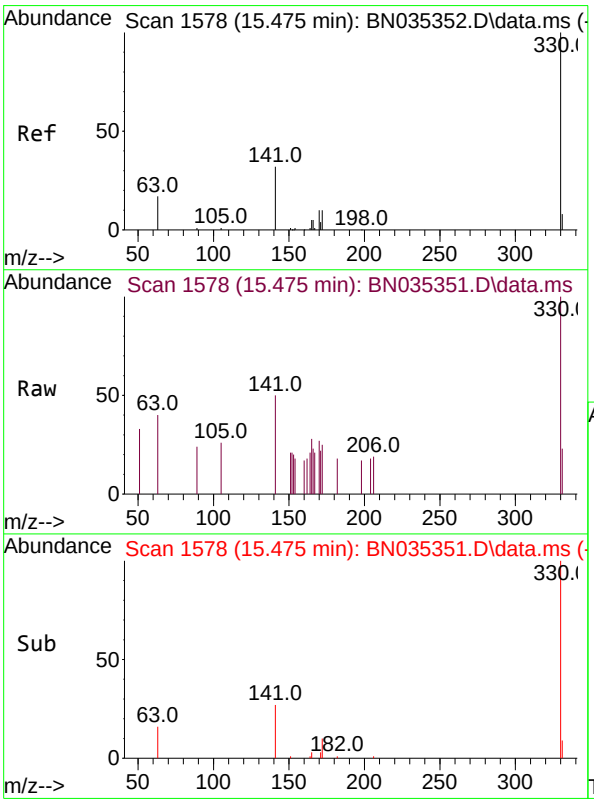
Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

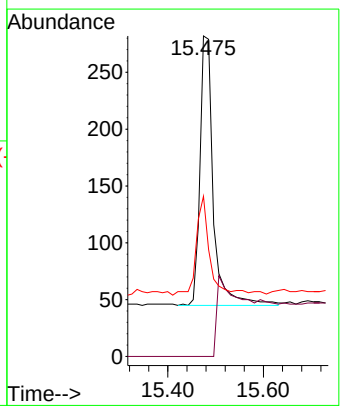
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

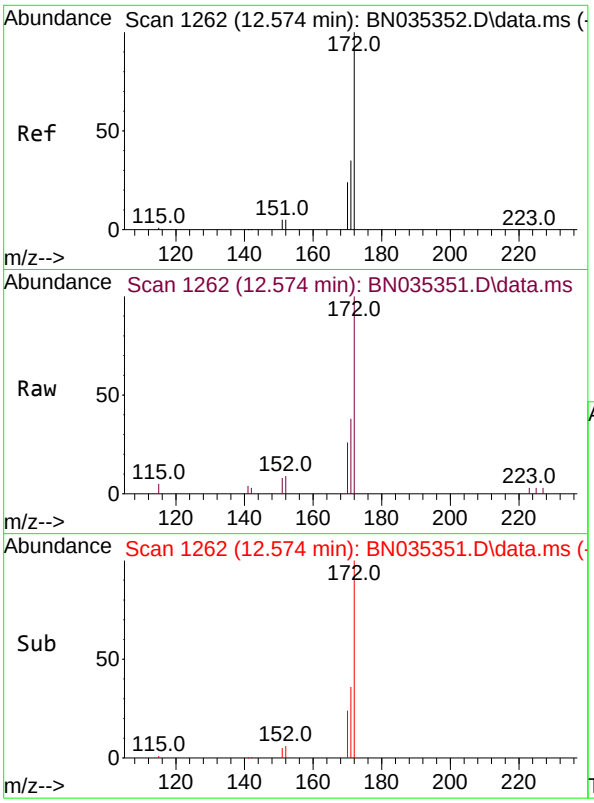


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0

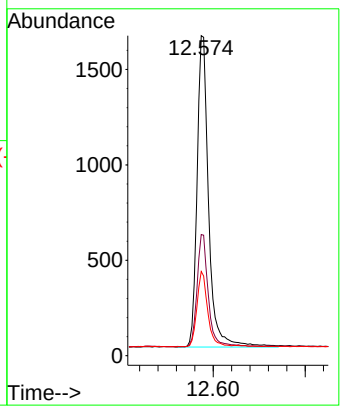




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:172 Resp: 283

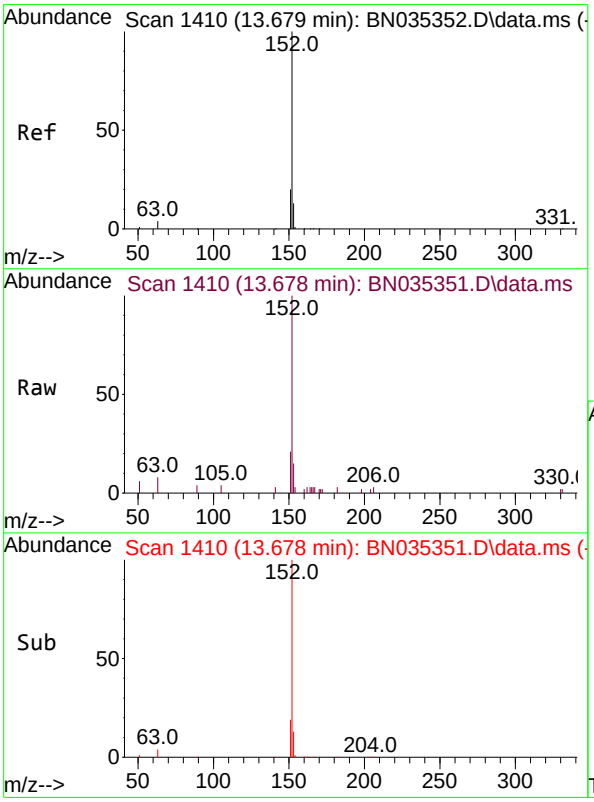
Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

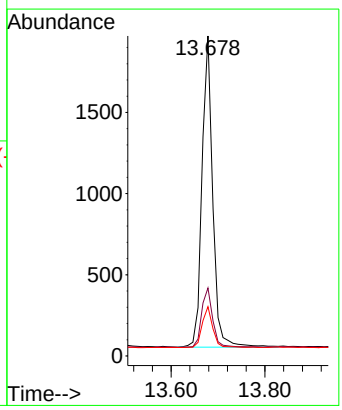
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

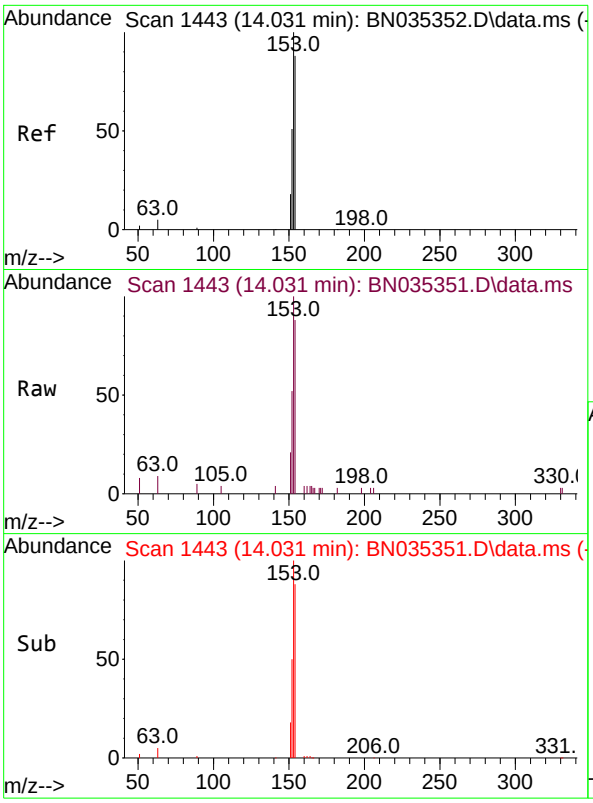


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6

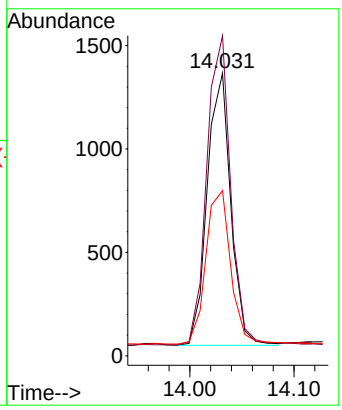




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:154 Resp: 206

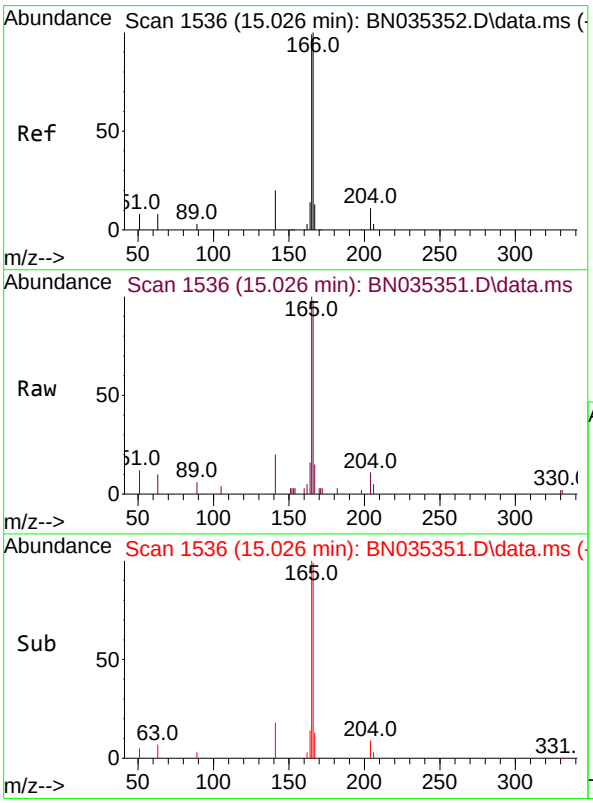
Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

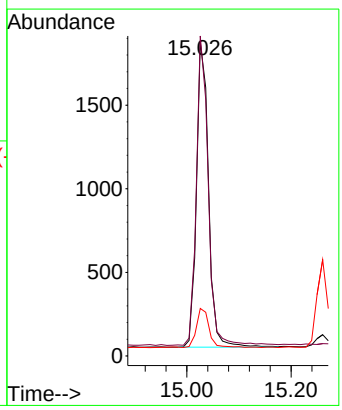
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

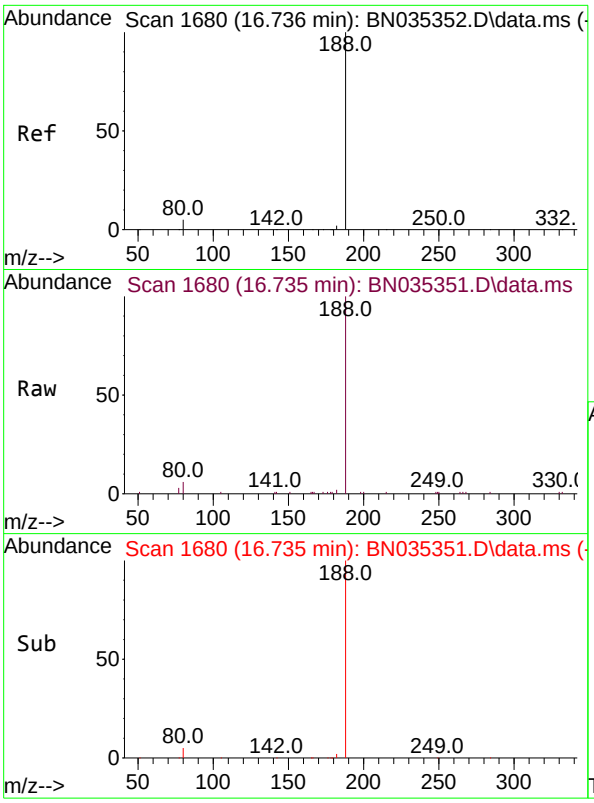


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2

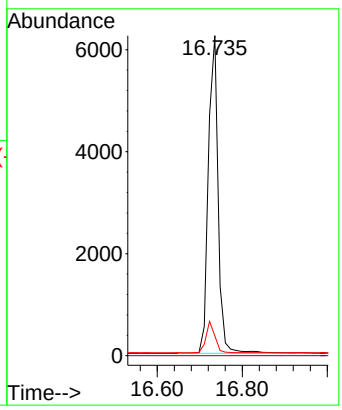




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:188 Resp: 990

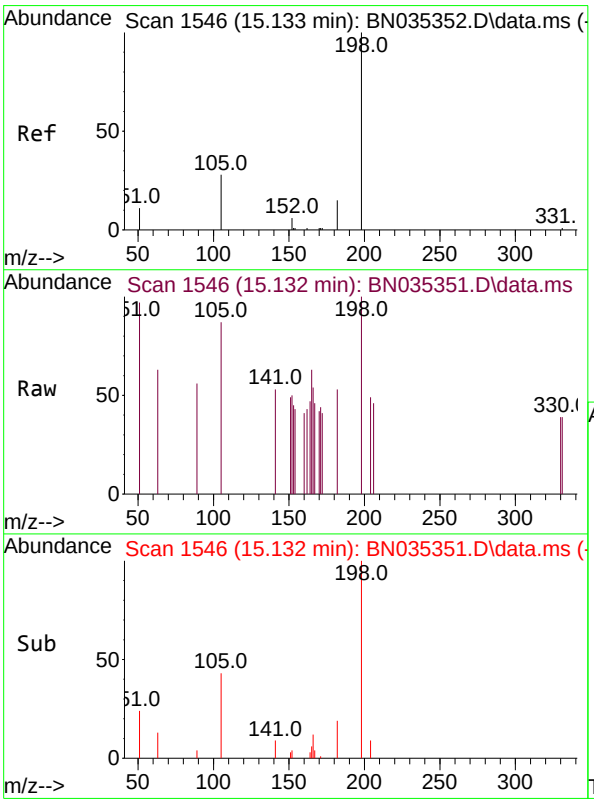
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

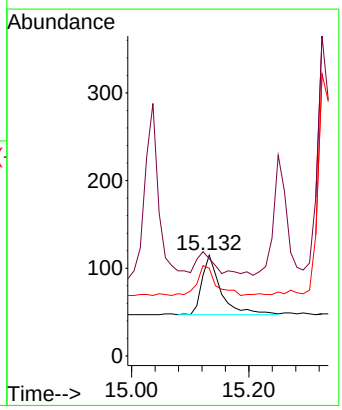
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

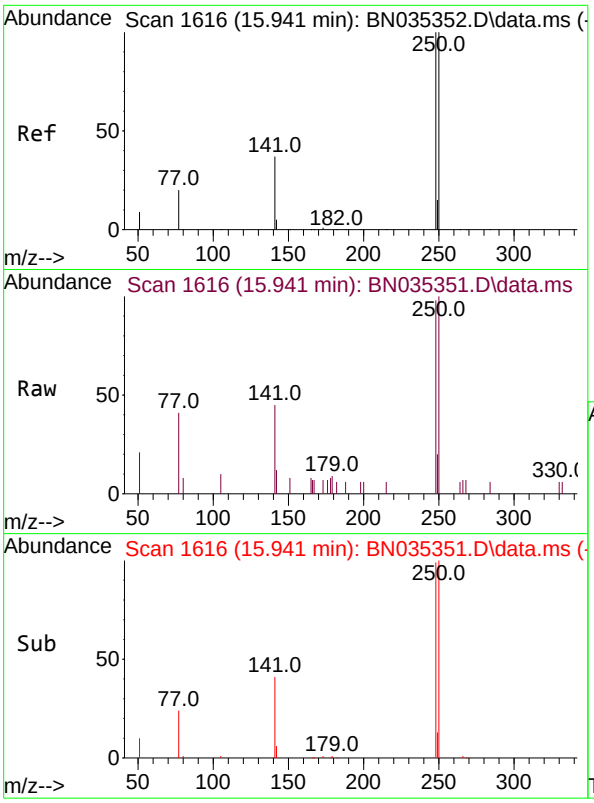


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#

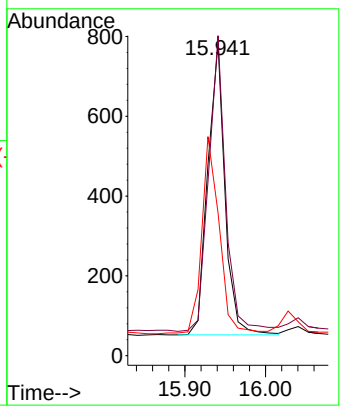




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:248 Resp: 108

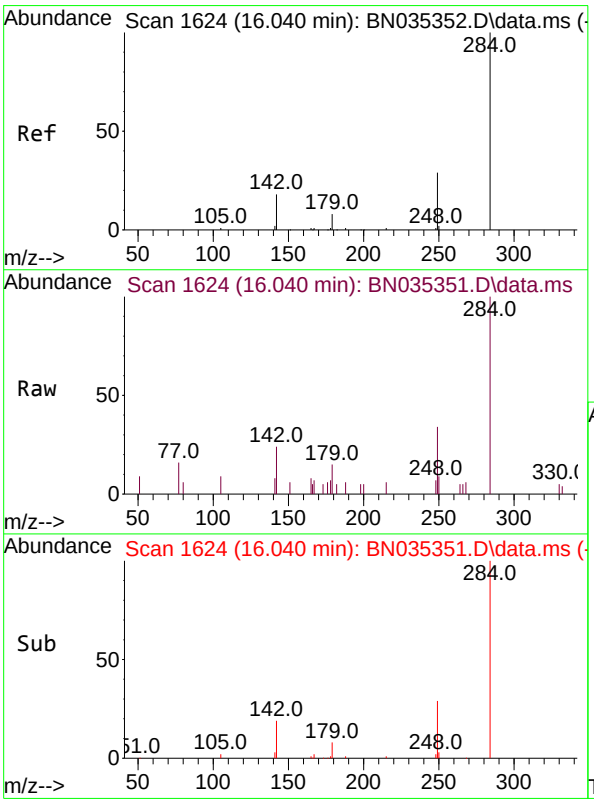
Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

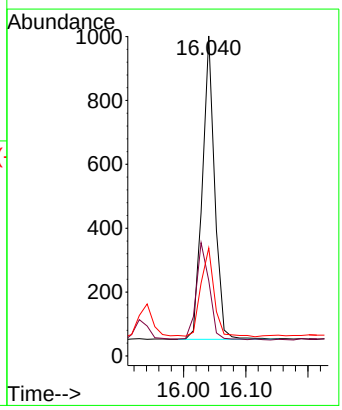
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

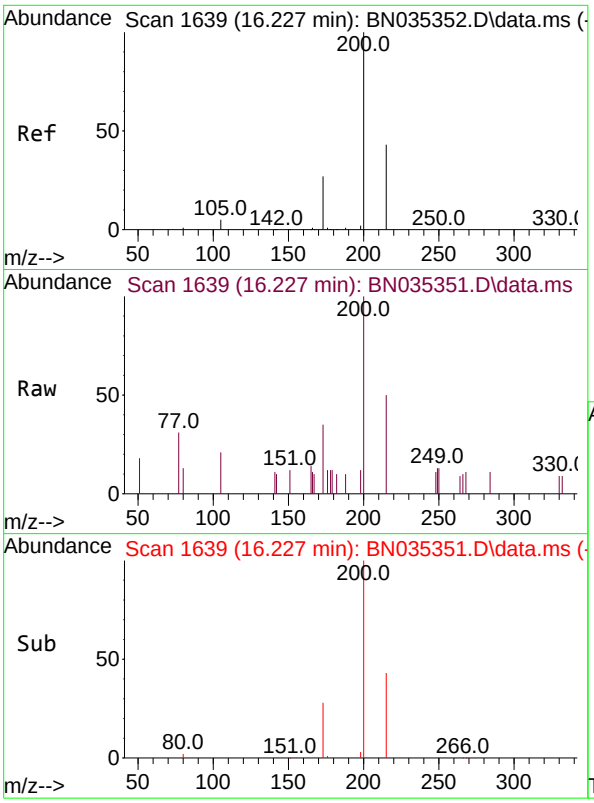


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8

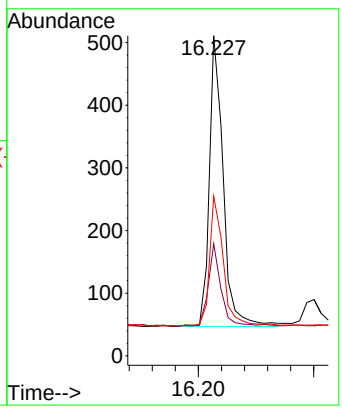




#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:200 Resp: 77(

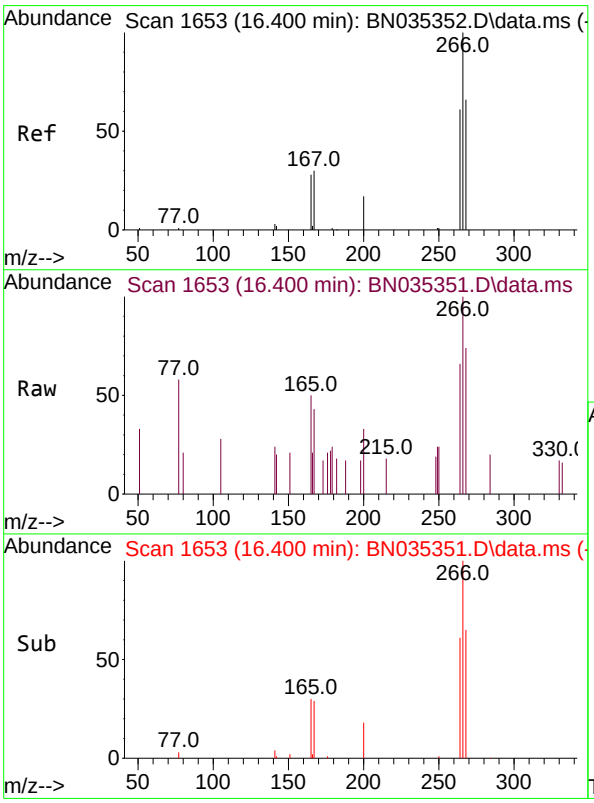
Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

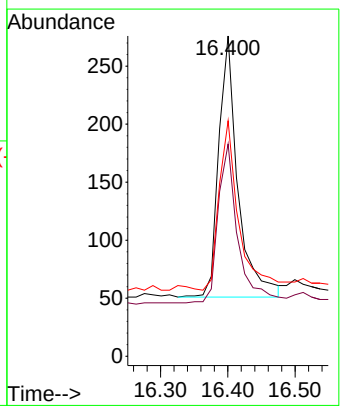
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

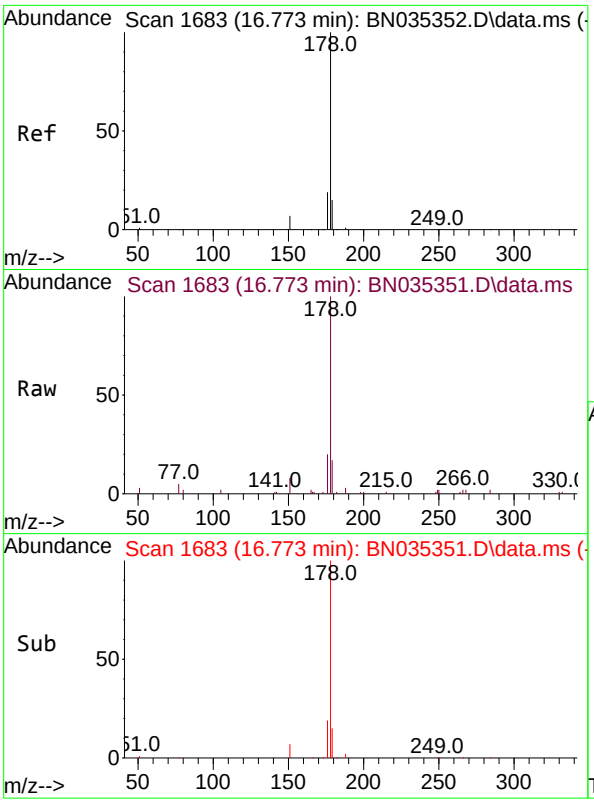


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#

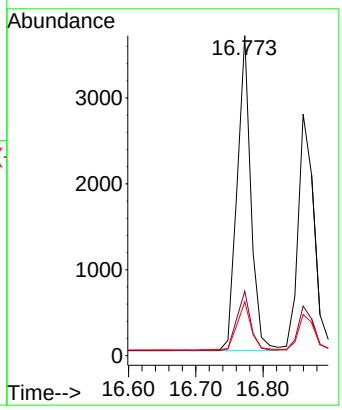




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 518

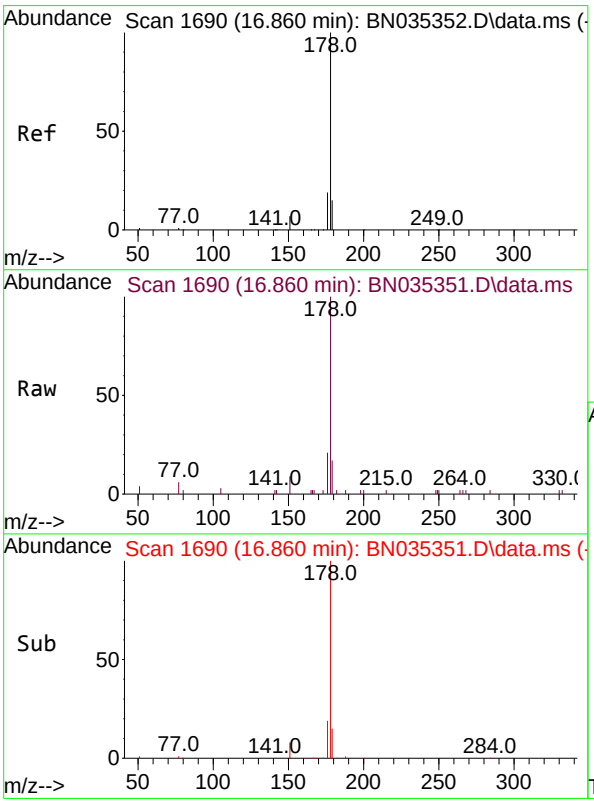
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

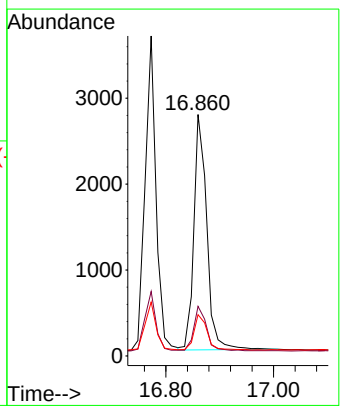
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

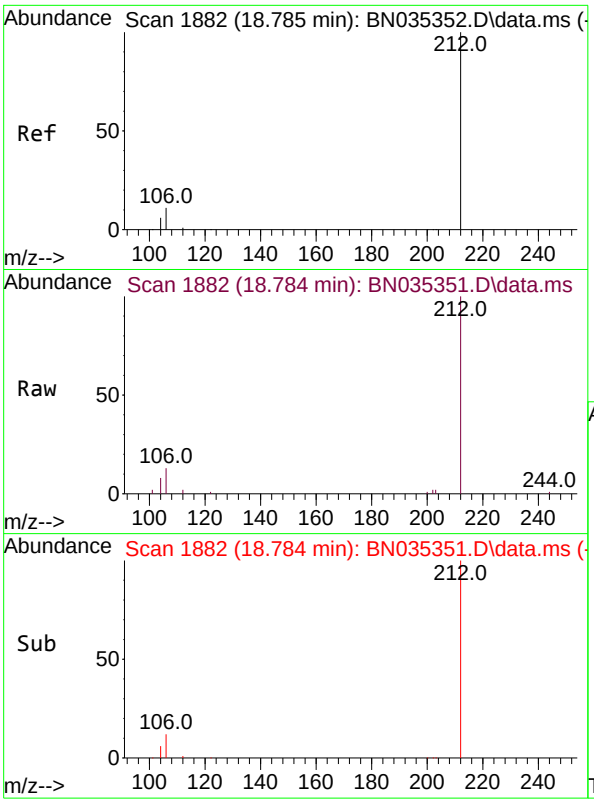


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8

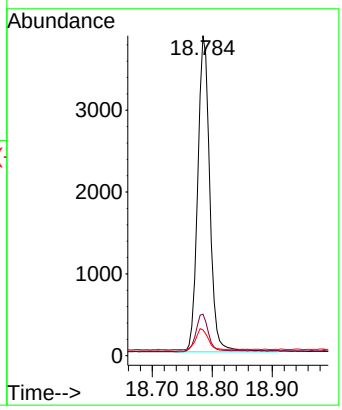




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:212 Resp: 537

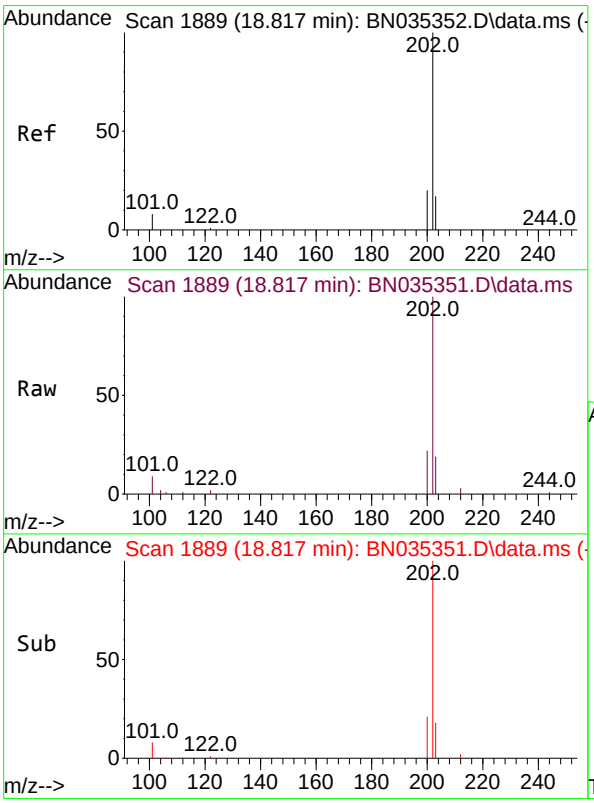
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

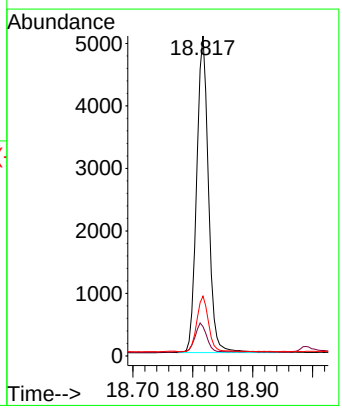
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

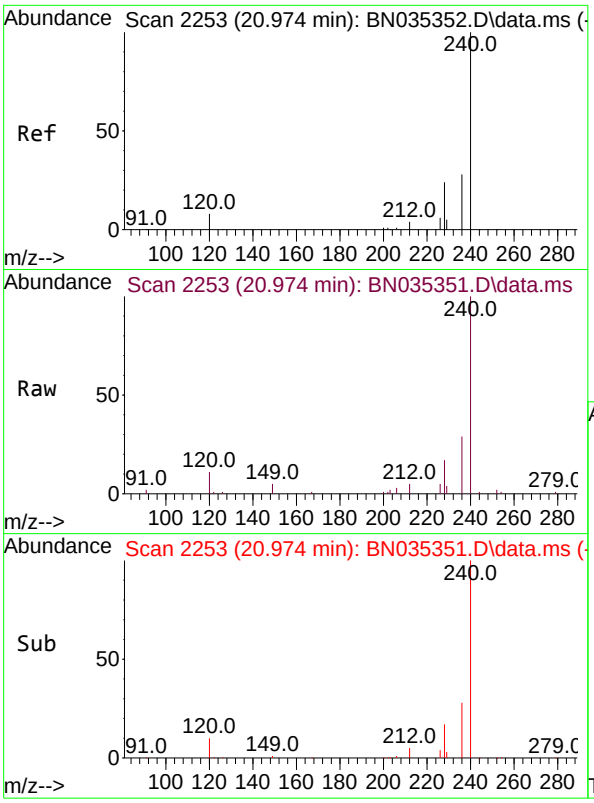


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5

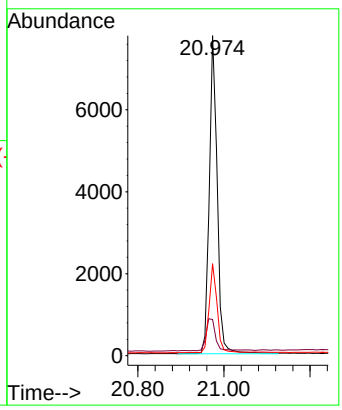




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:240 Resp: 996

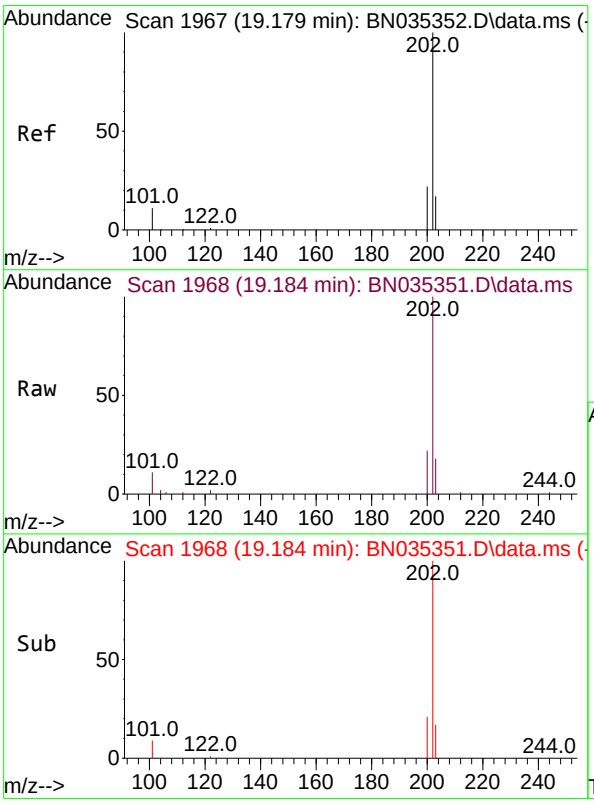
Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

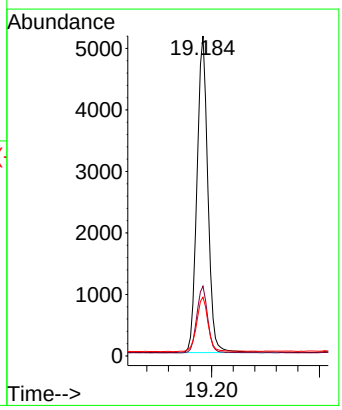
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

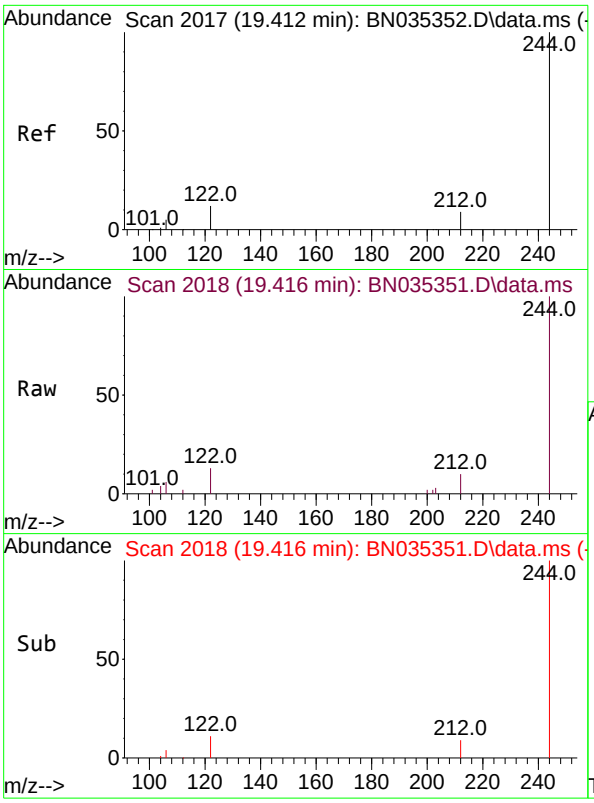


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5

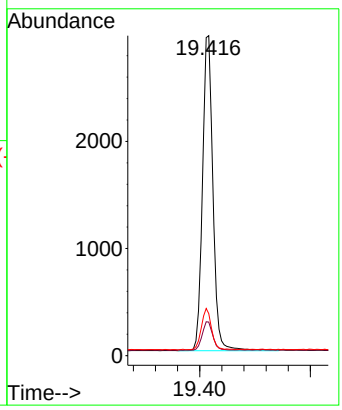




#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:244 Resp: 387

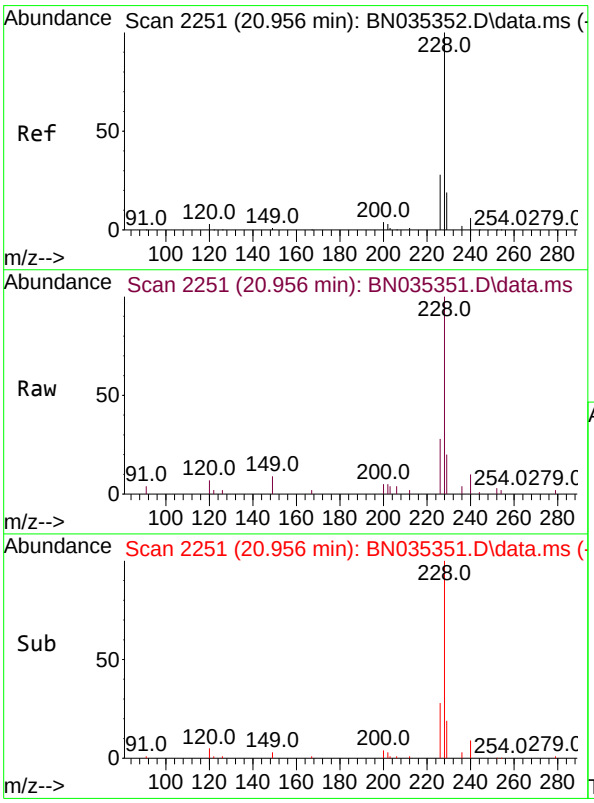
Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

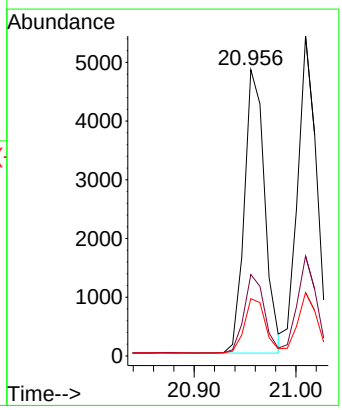
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

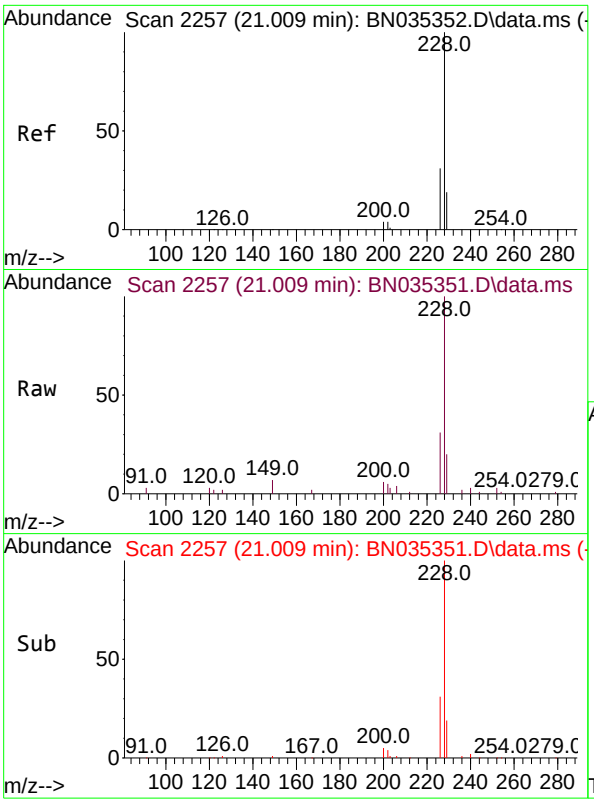


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8

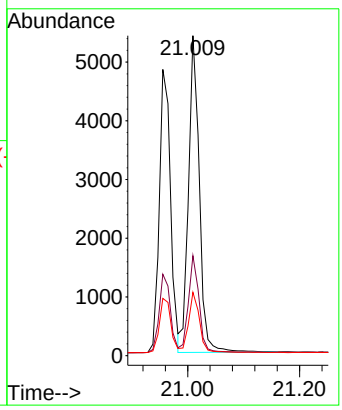




#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 723

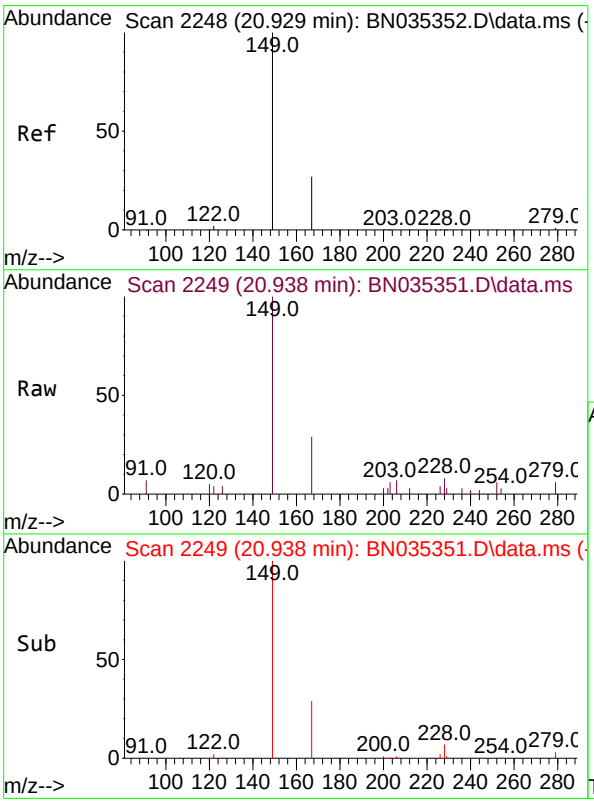
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

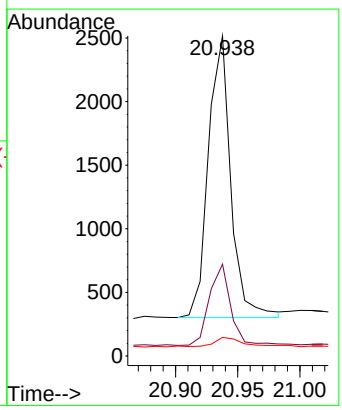
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

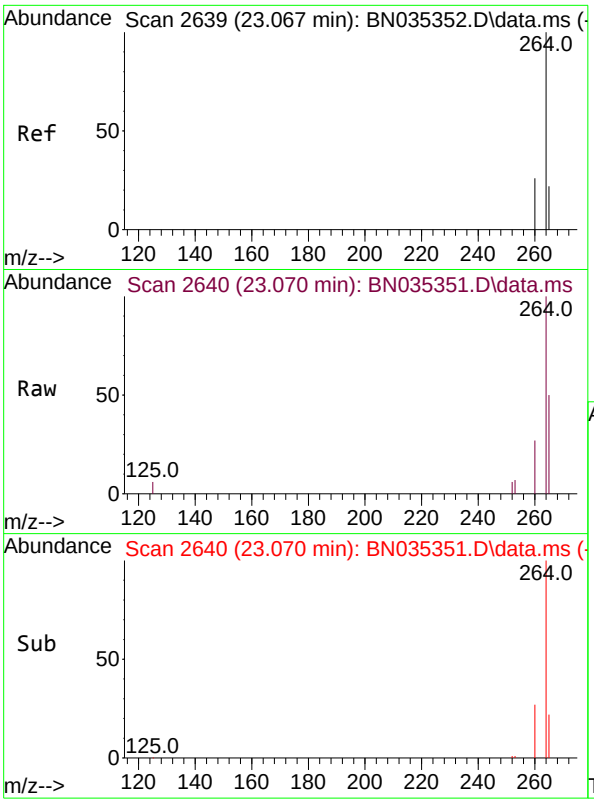


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#

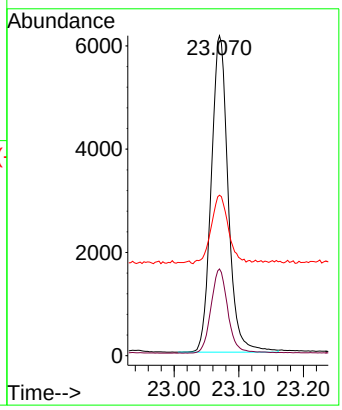




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:264 Resp: 1115

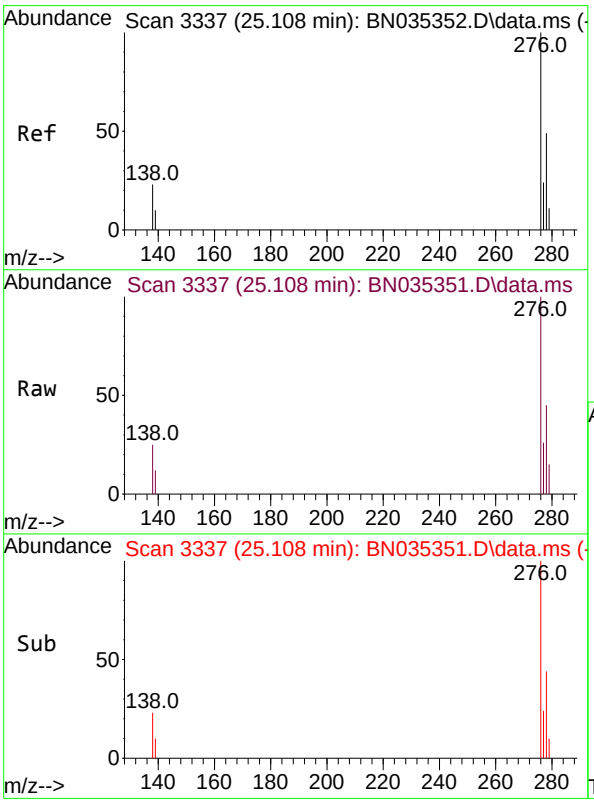
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

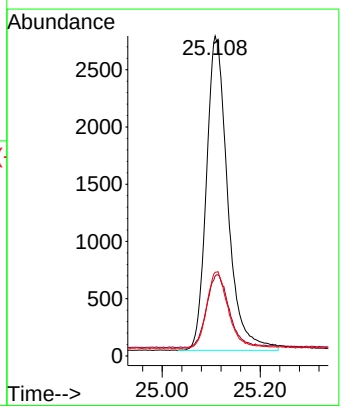
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

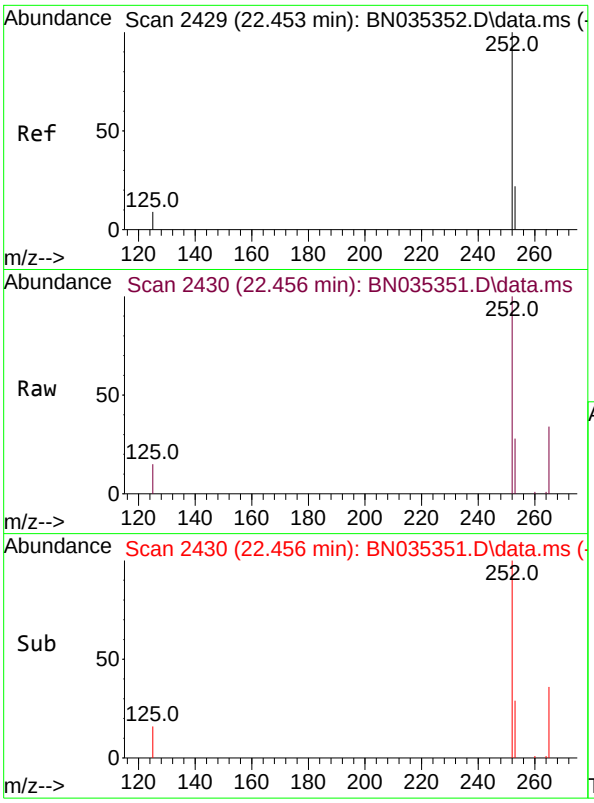


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6

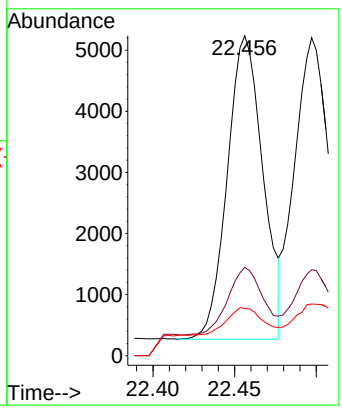




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 752

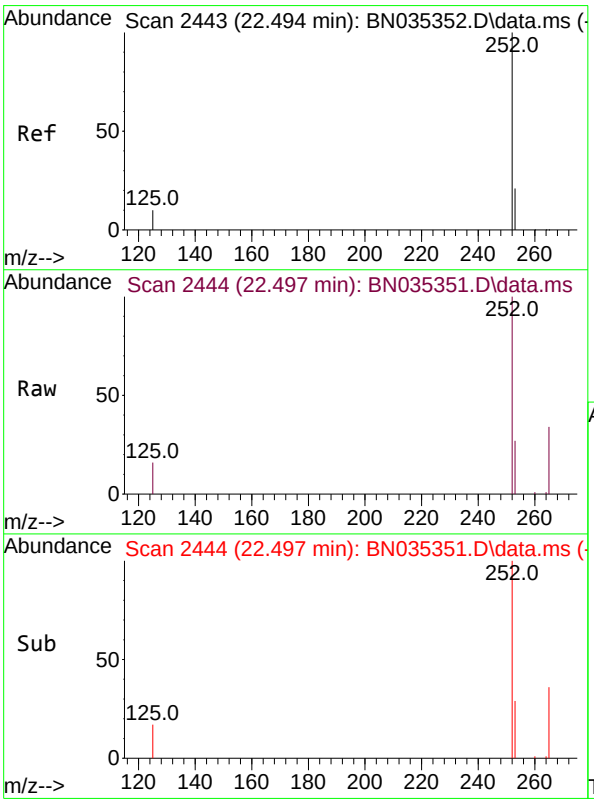
Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

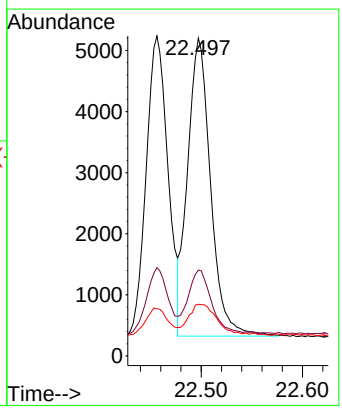
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

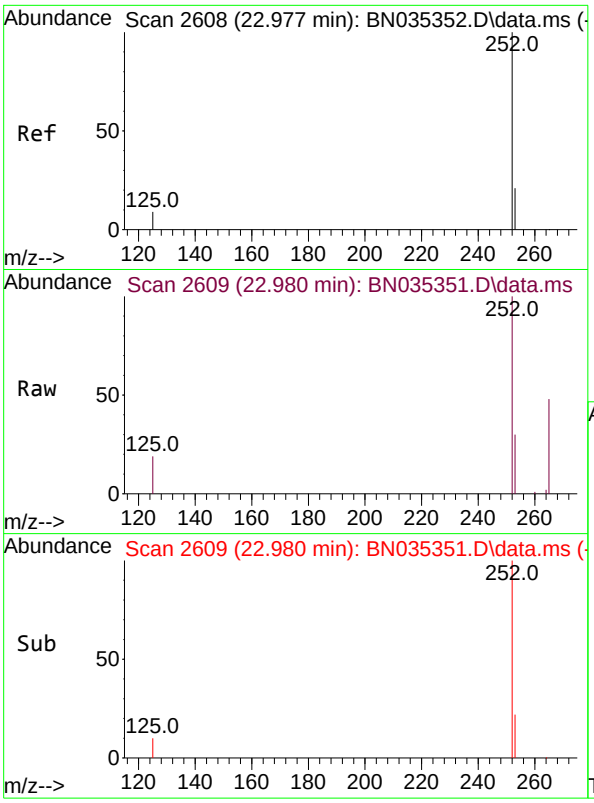


#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

Ion	Ratio	Lower	Upper
252	100		
253	27.0	19.5	29.3
125	16.2	10.2	15.4#

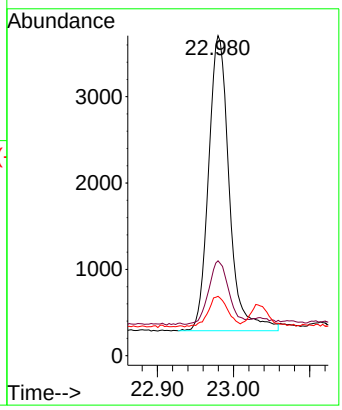




#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 645

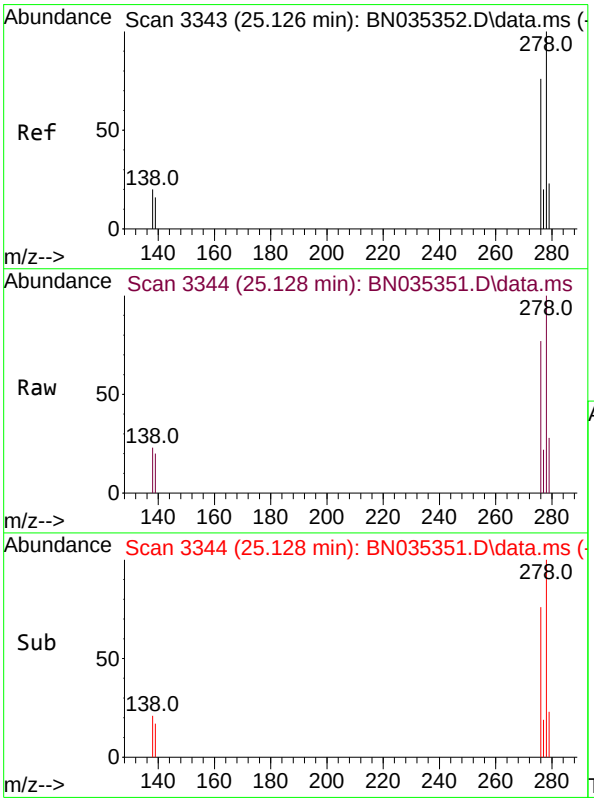
Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

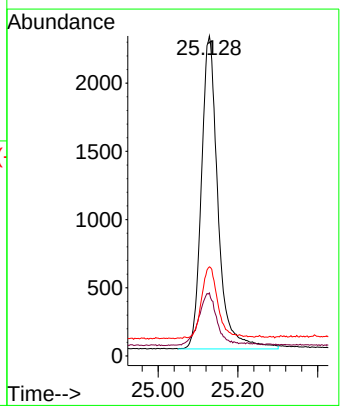
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

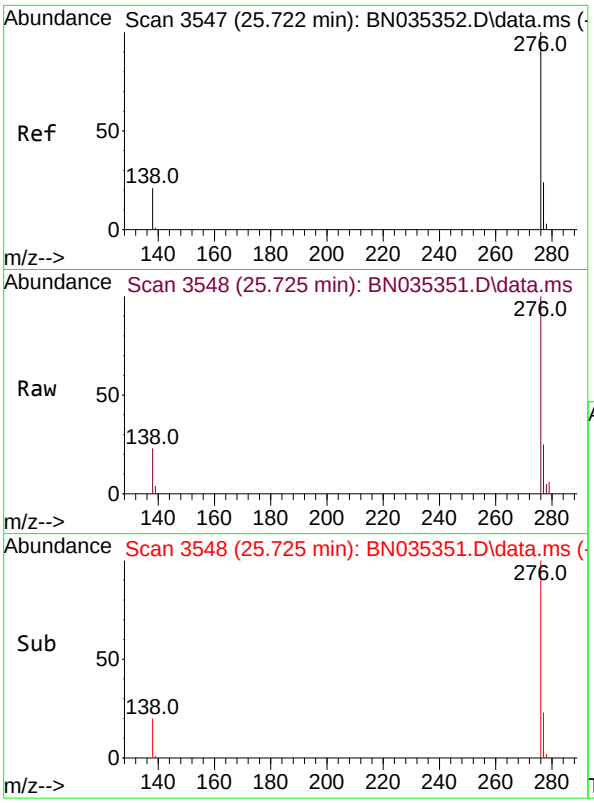


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7

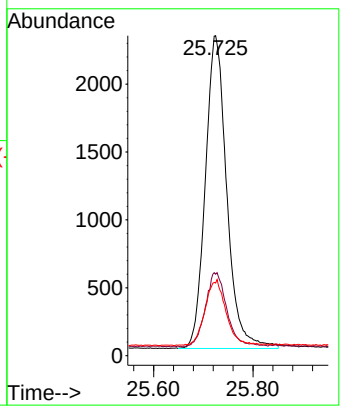




#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 690

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1228m	0.270	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

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

ICAL Form

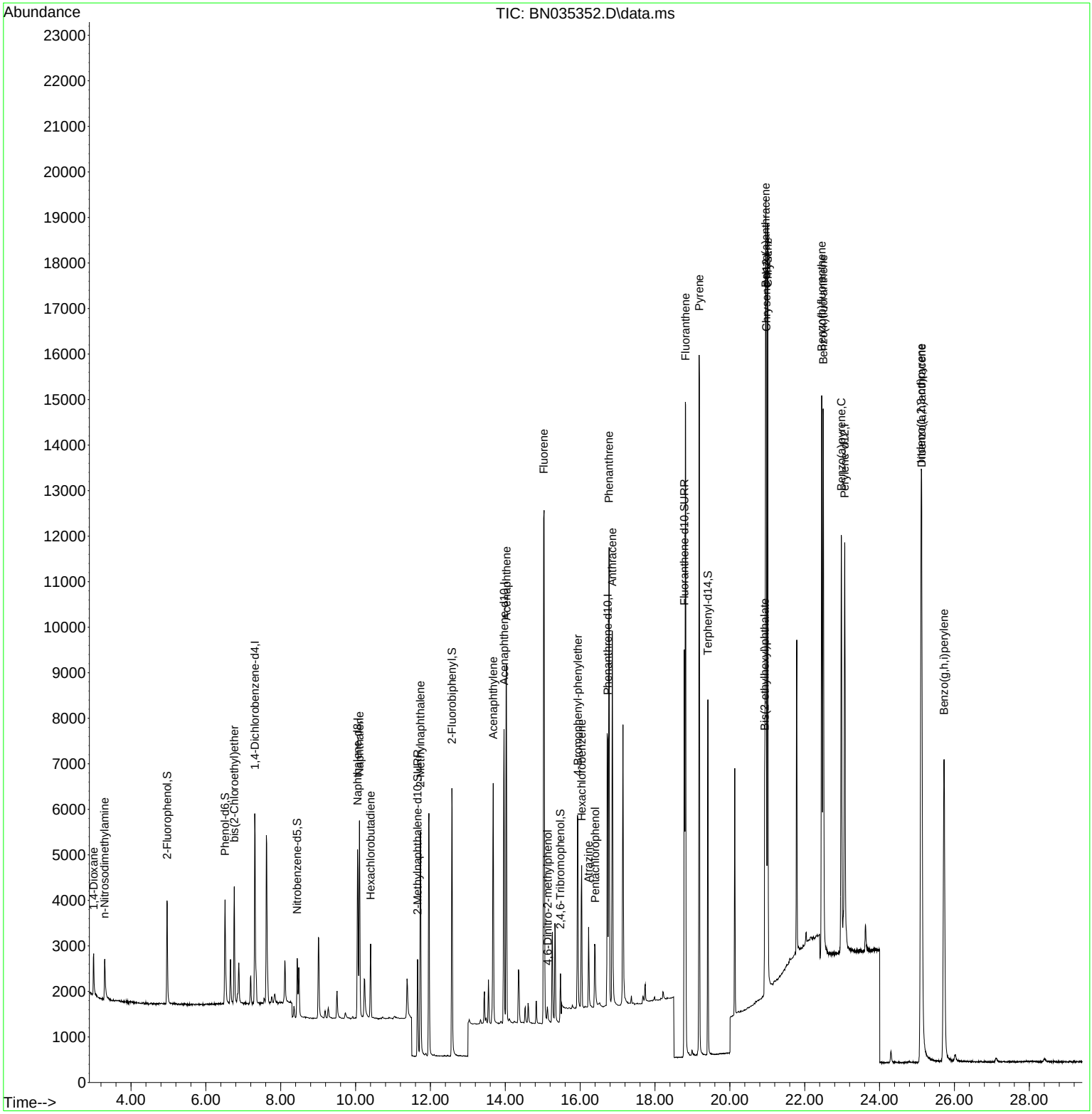
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

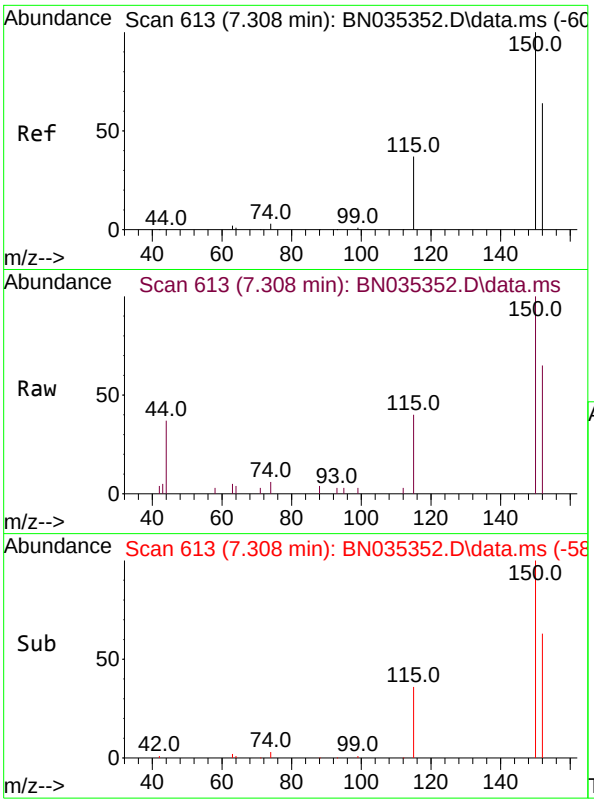
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

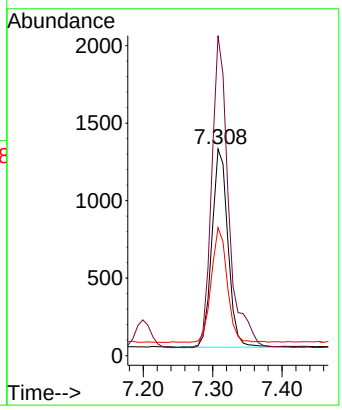




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 204

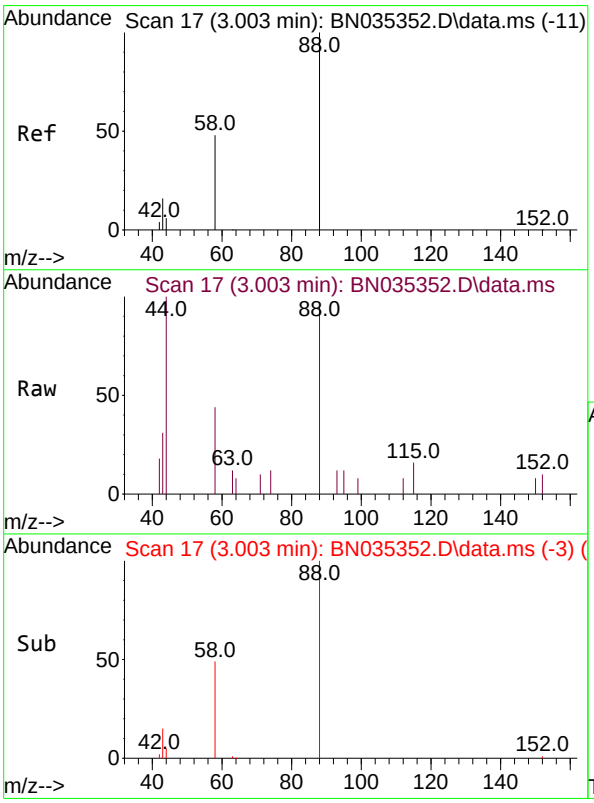
Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

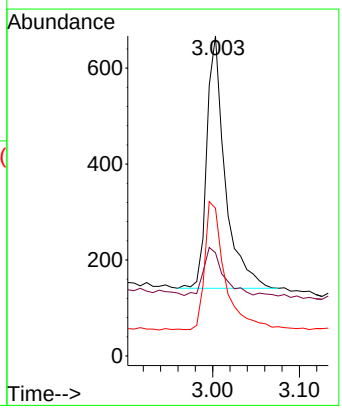
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

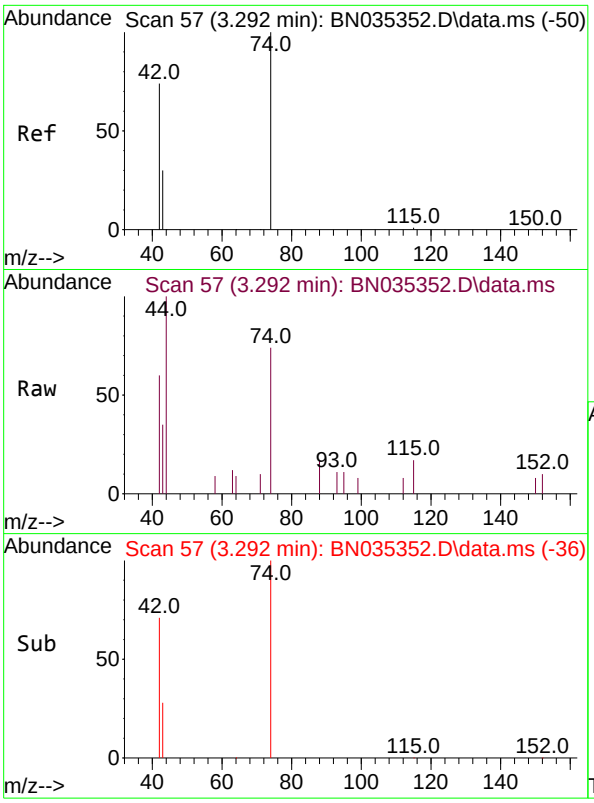


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7

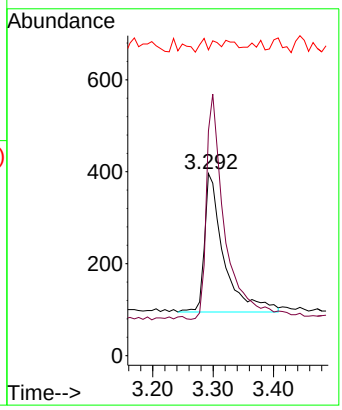




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 42 Resp: 66

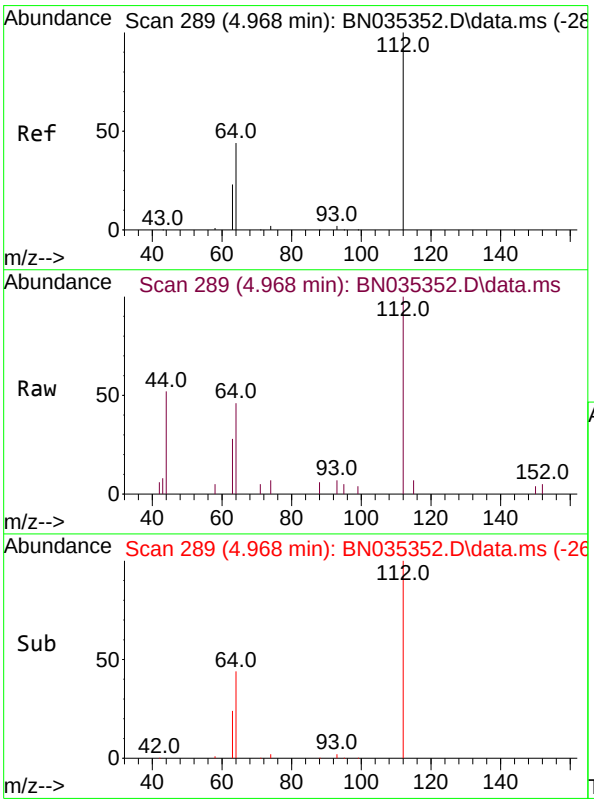
Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

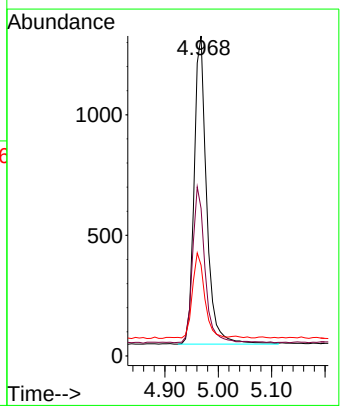
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

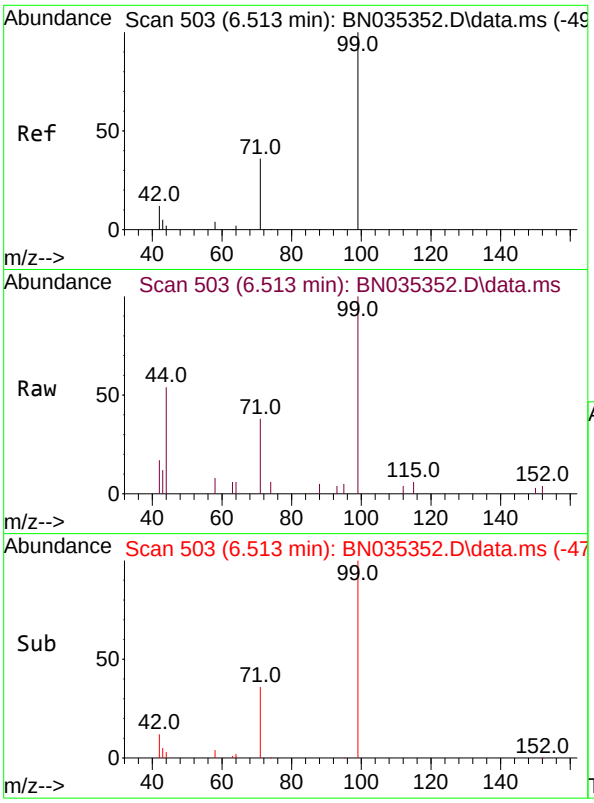


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6

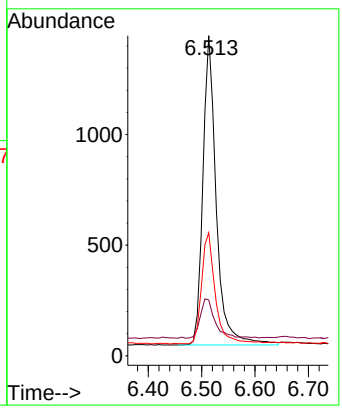




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 99 Resp: 244

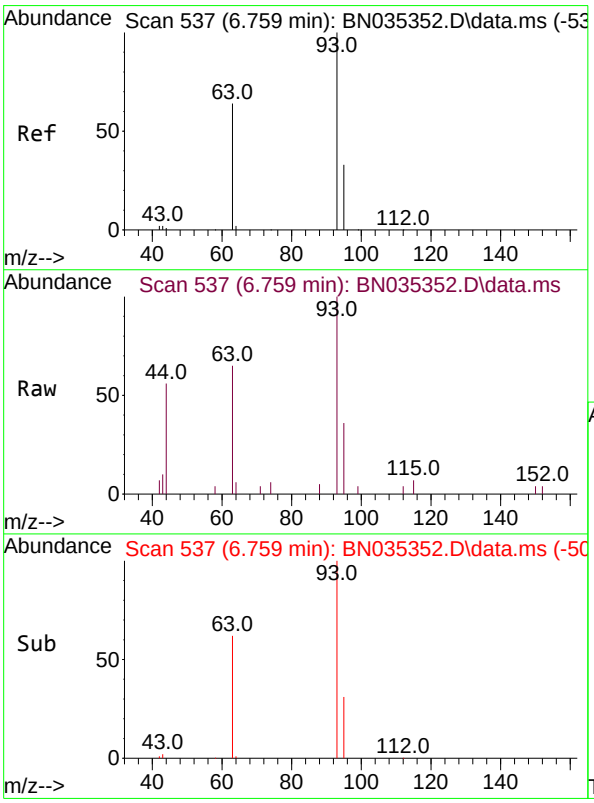
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

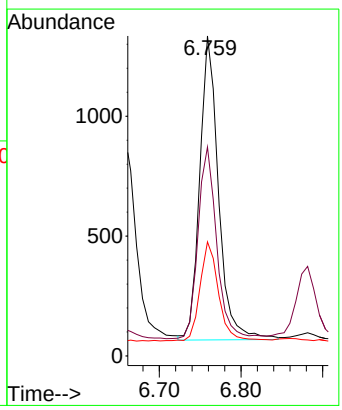
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

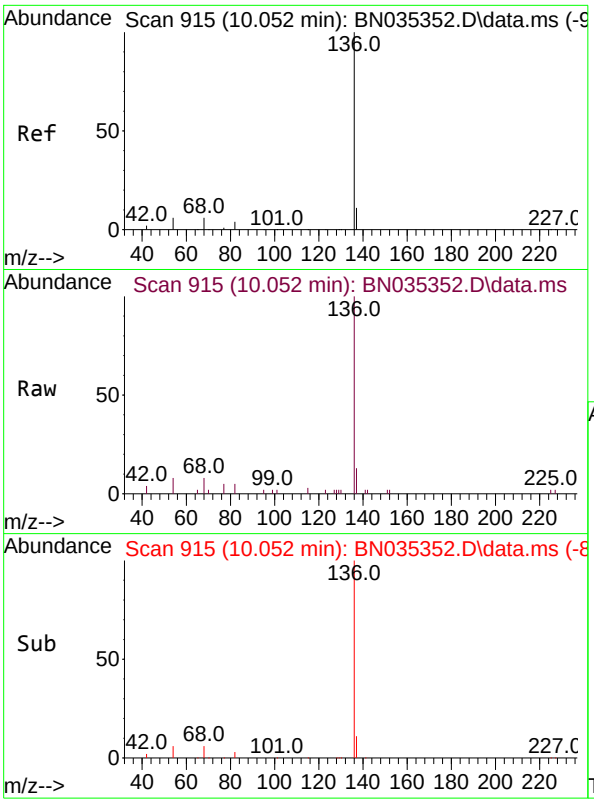


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5

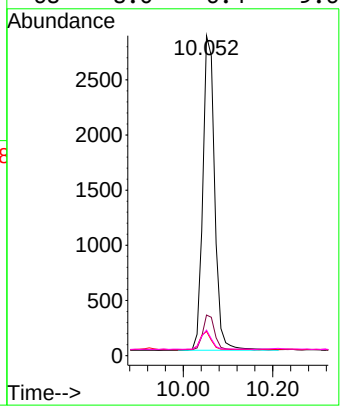




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:136 Resp: 522

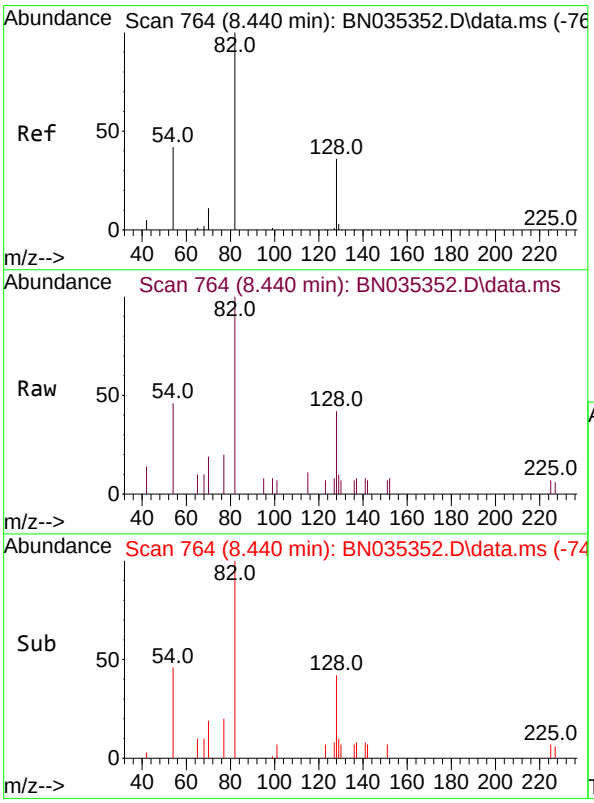
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

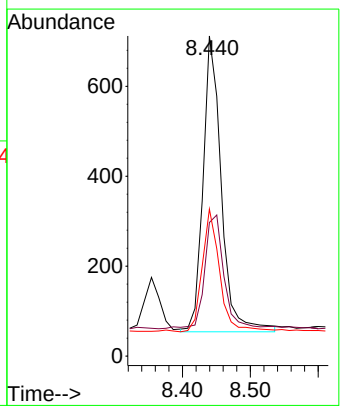
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

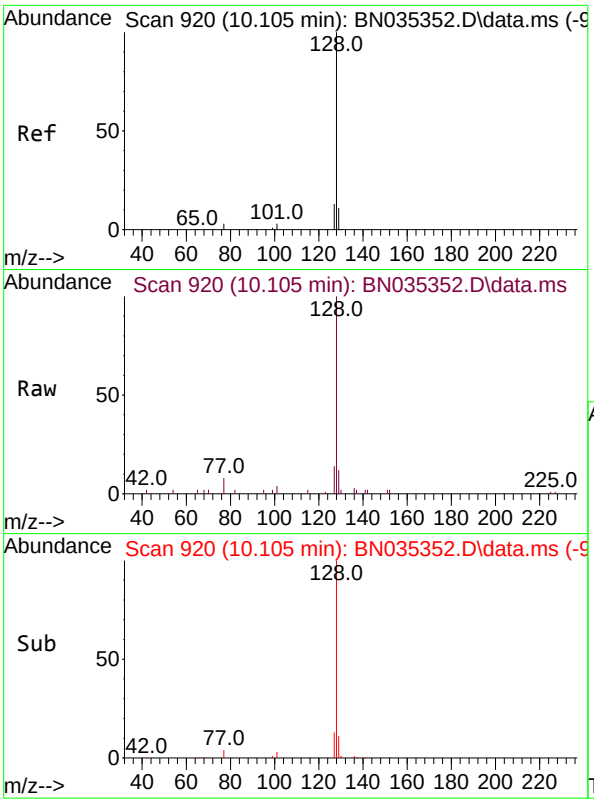


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1





#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

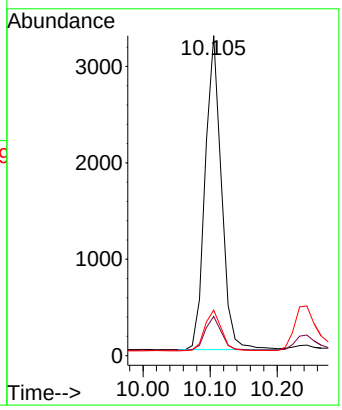
Tgt Ion:128 Resp: 547

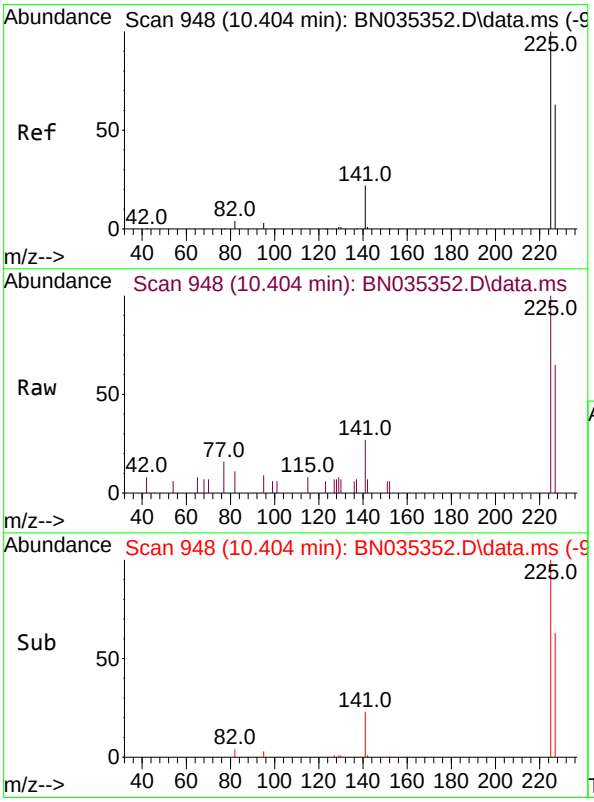
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

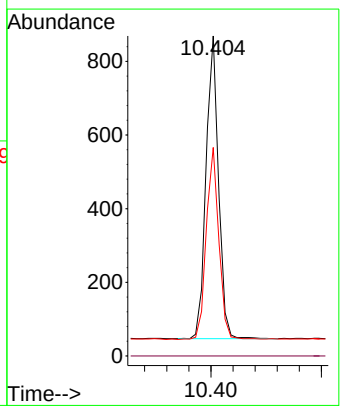


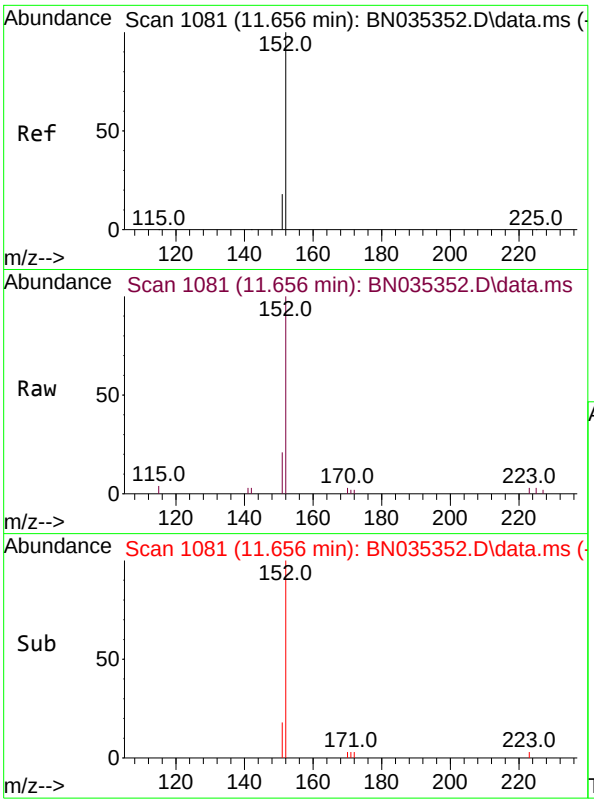


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

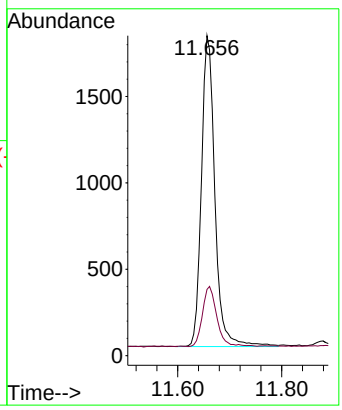
Tgt Ion:152 Resp: 323

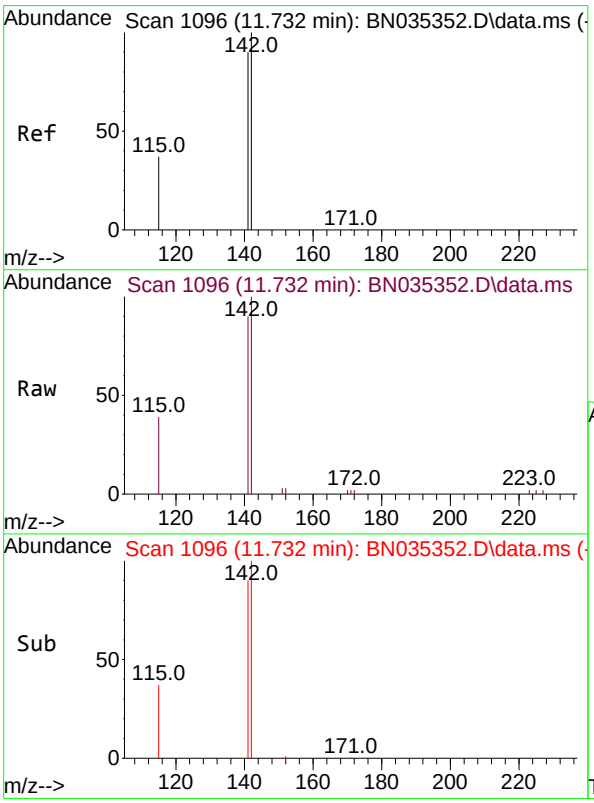
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

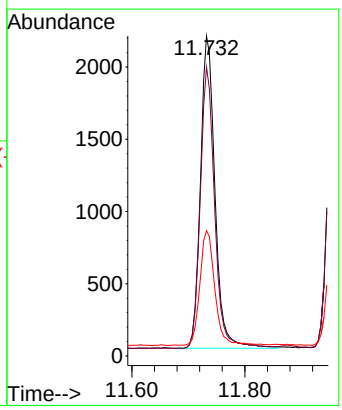


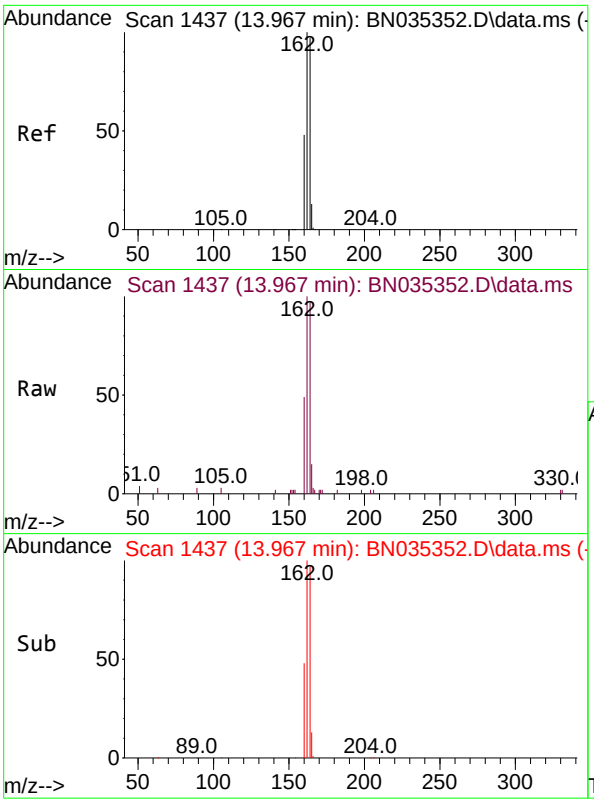


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0

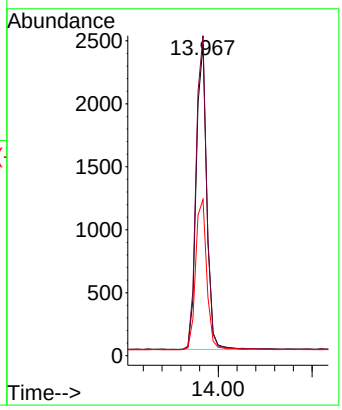




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:164 Resp: 3799

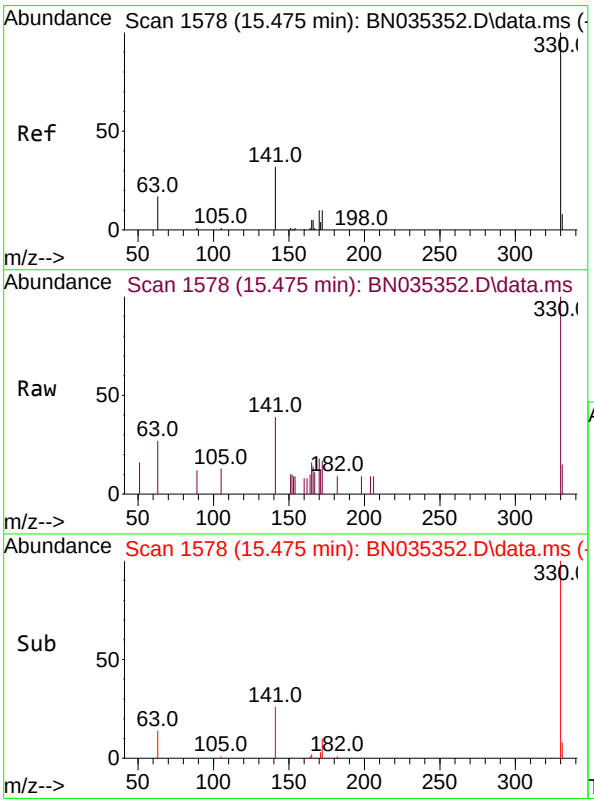
Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

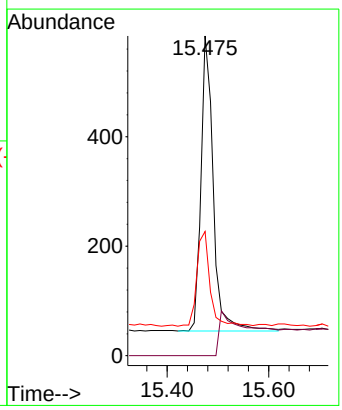
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

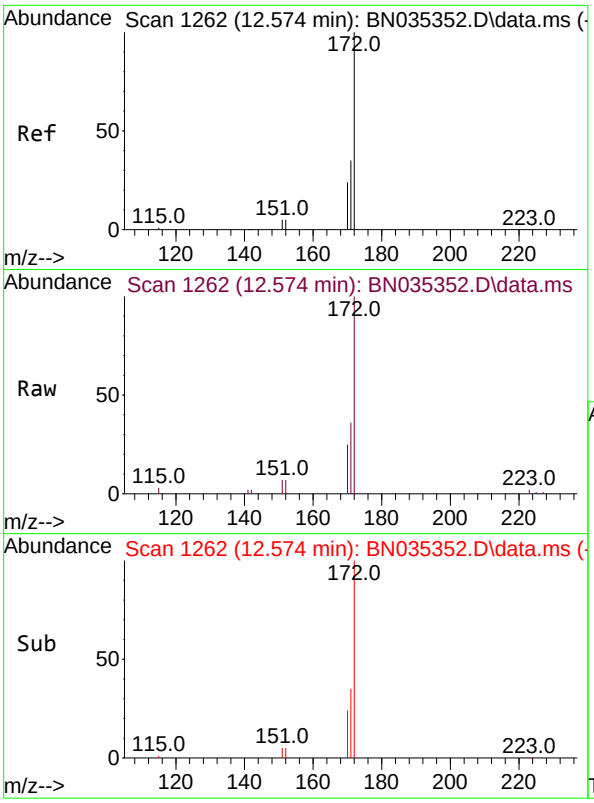


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0

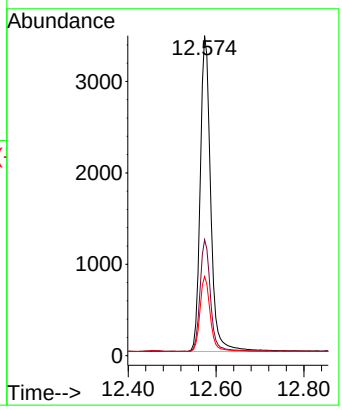




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:172 Resp: 573

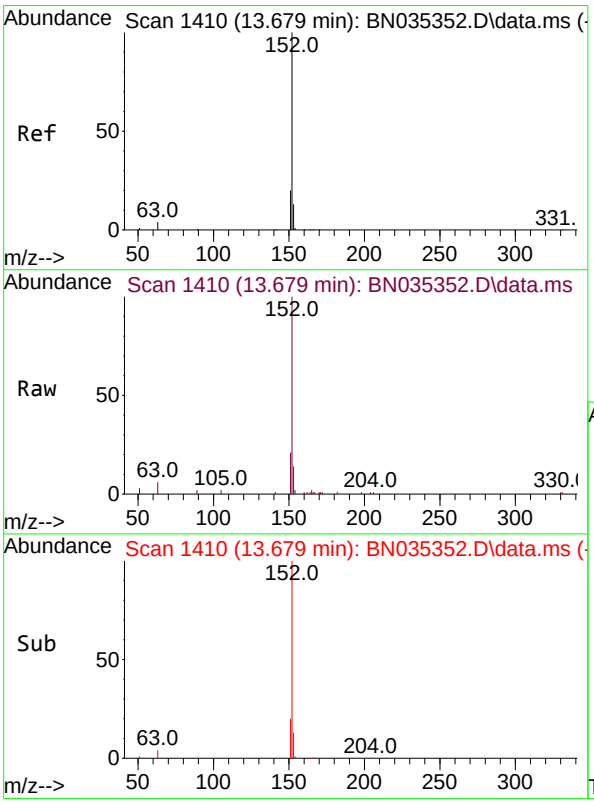
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

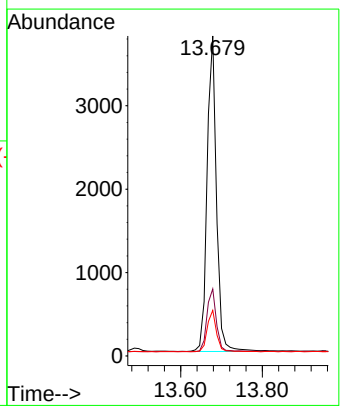
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

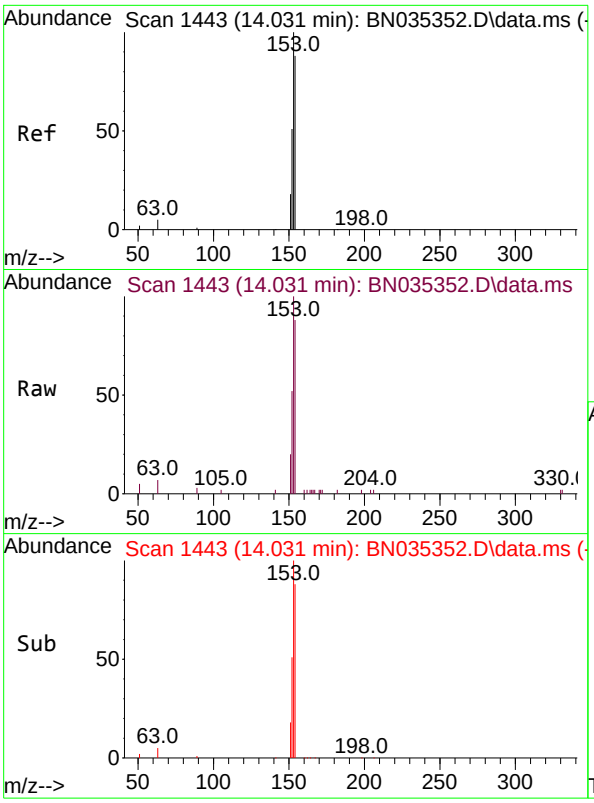


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6

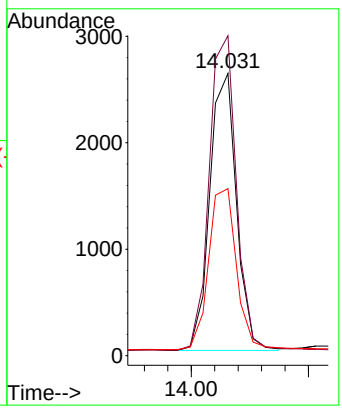




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:154 Resp: 412

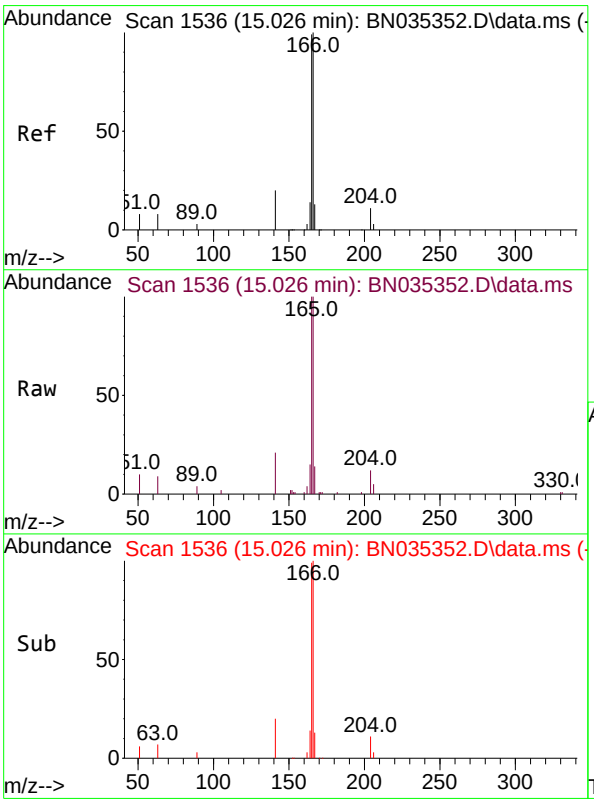
Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

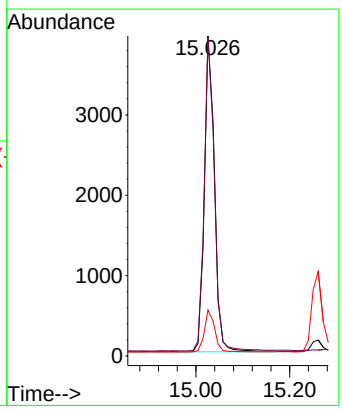
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

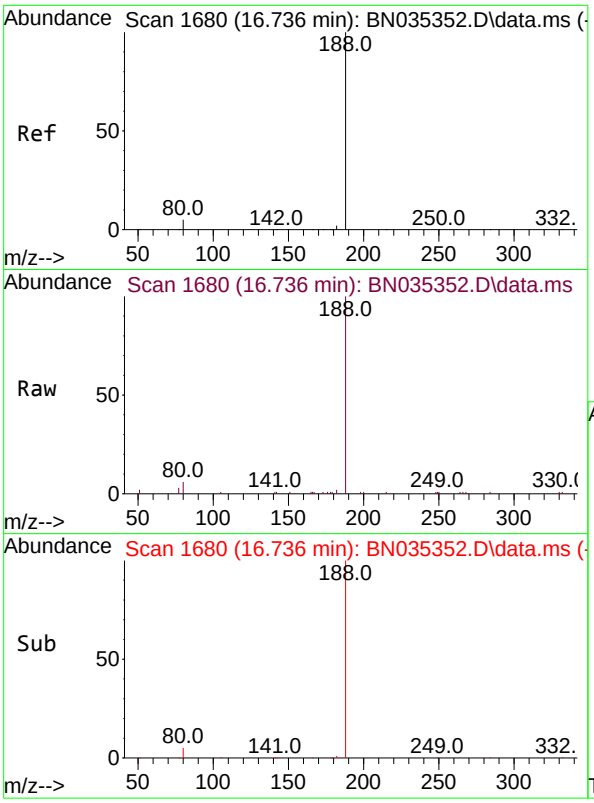


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2

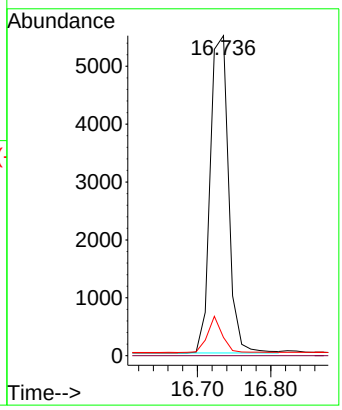




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:188 Resp: 949(

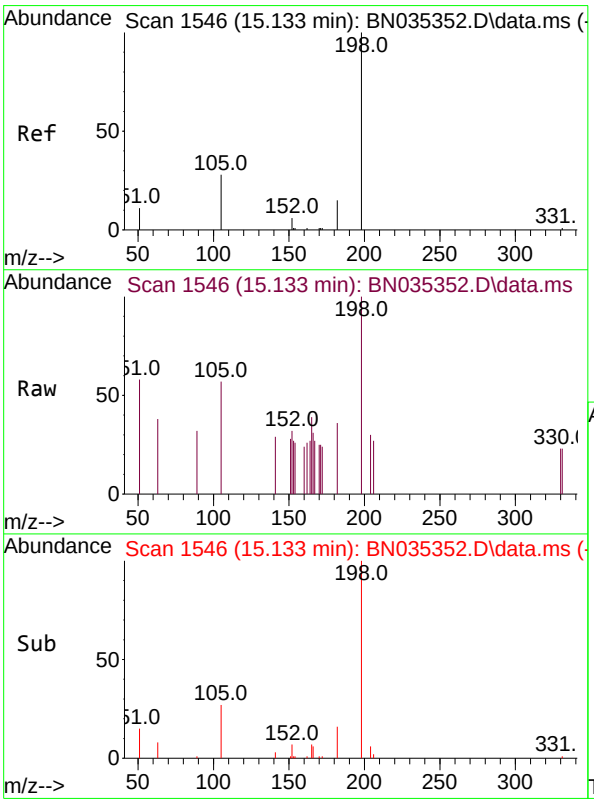
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

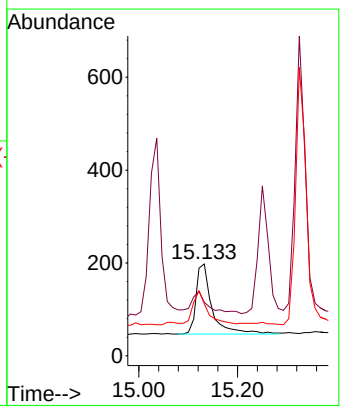
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

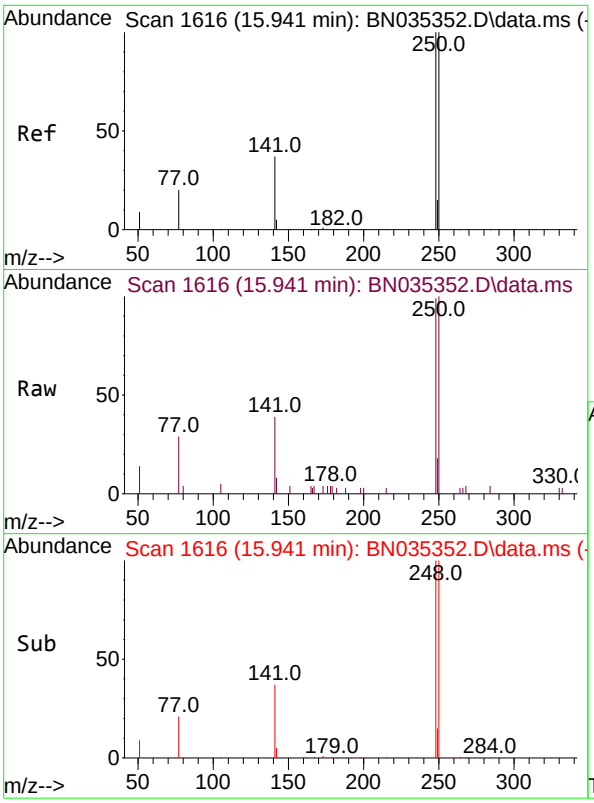


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

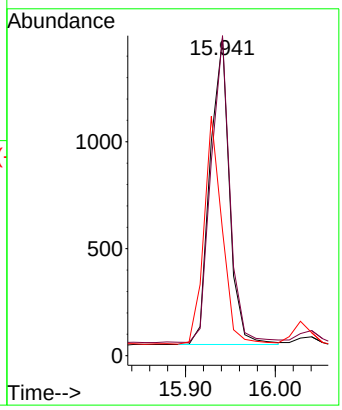
Tgt Ion:248 Resp: 214(

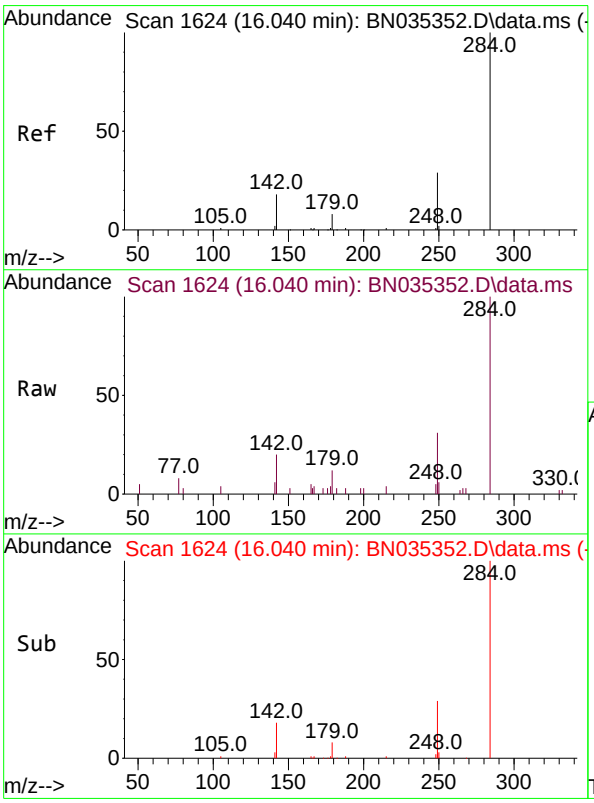
Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

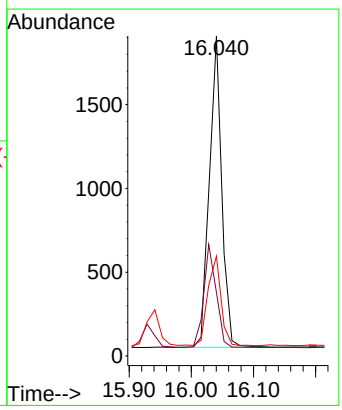


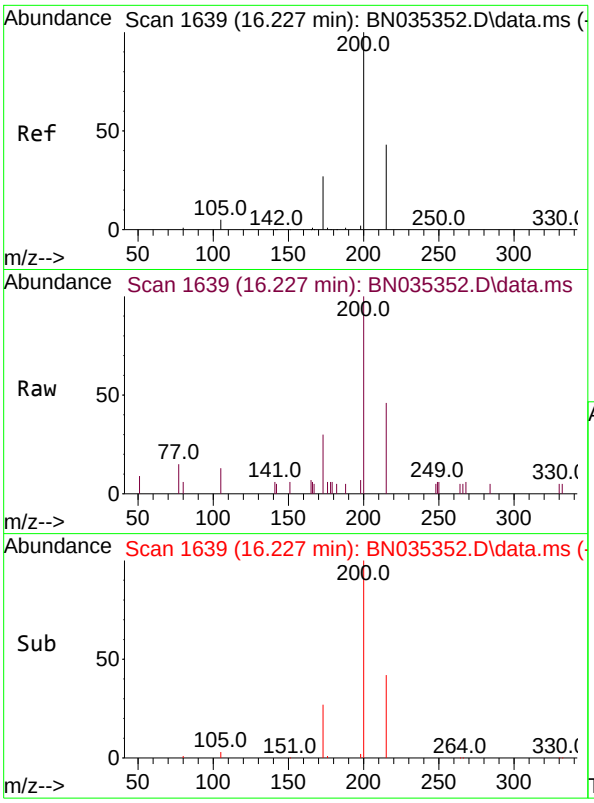


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8

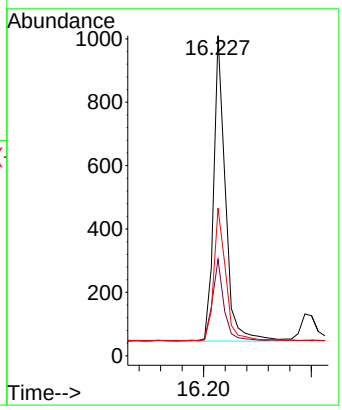




#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:200 Resp: 146

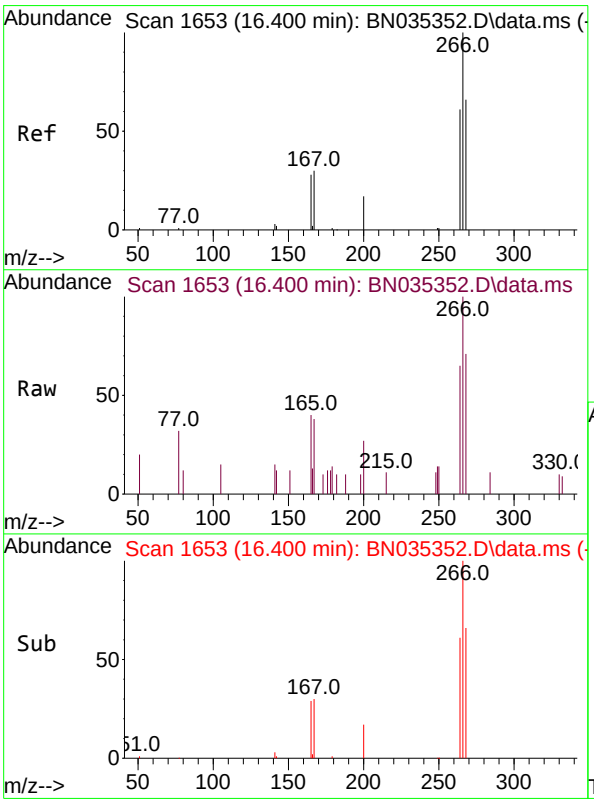
Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

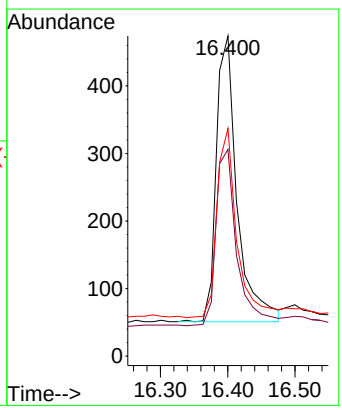
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

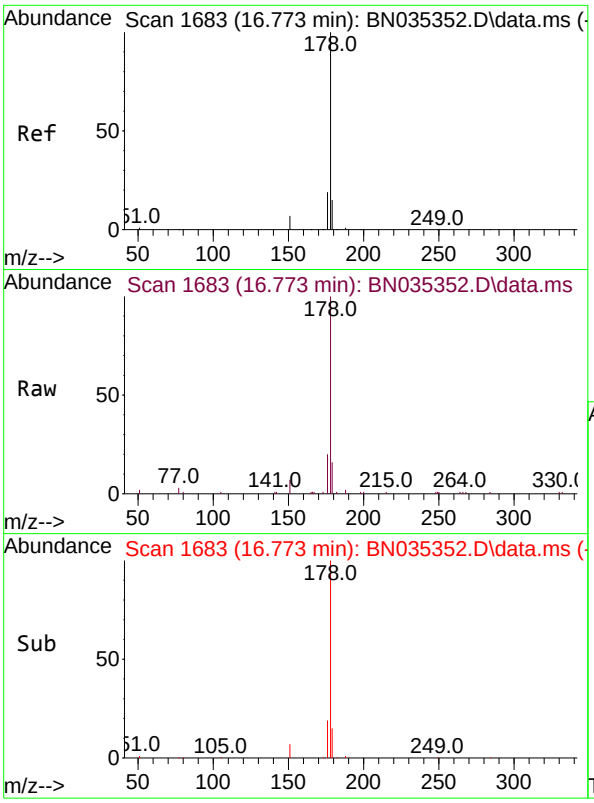


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9

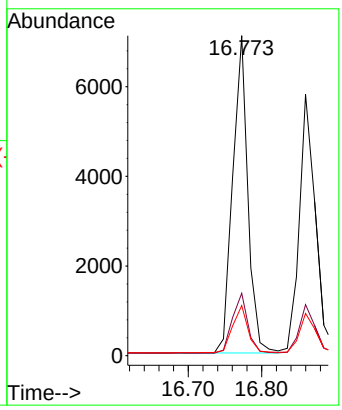




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 1012

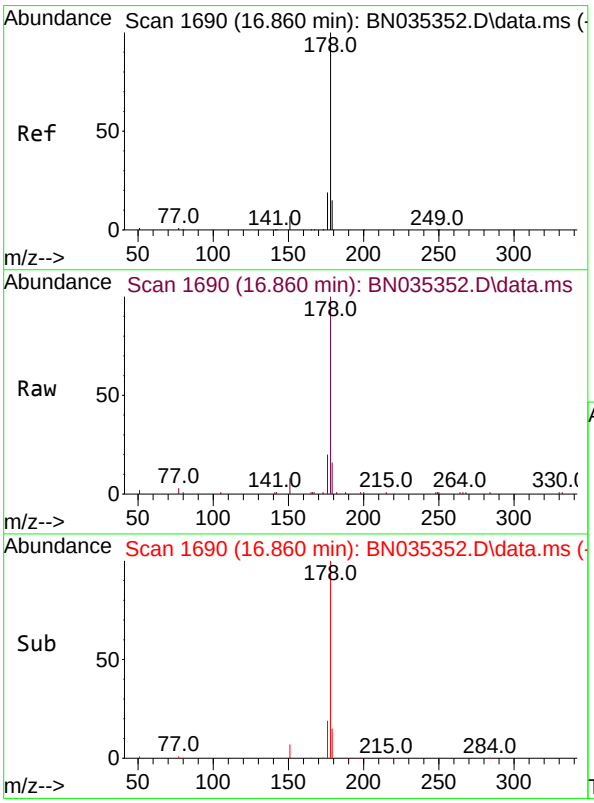
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

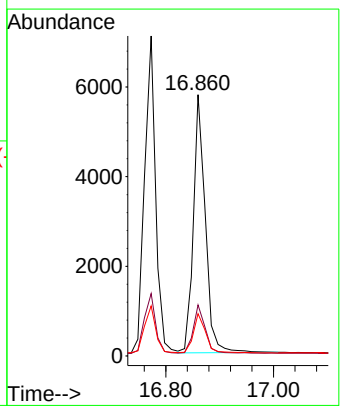
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

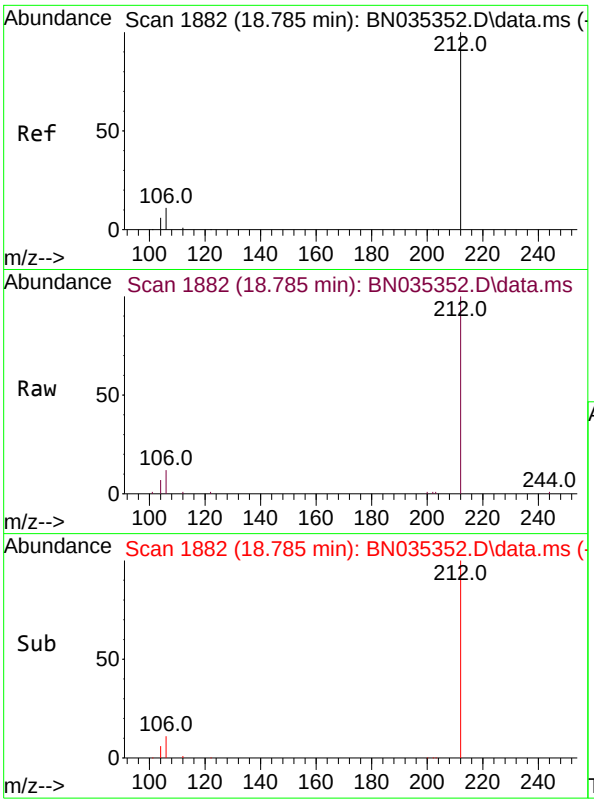


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8

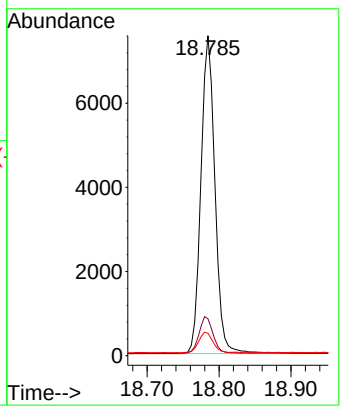




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:212 Resp: 1022

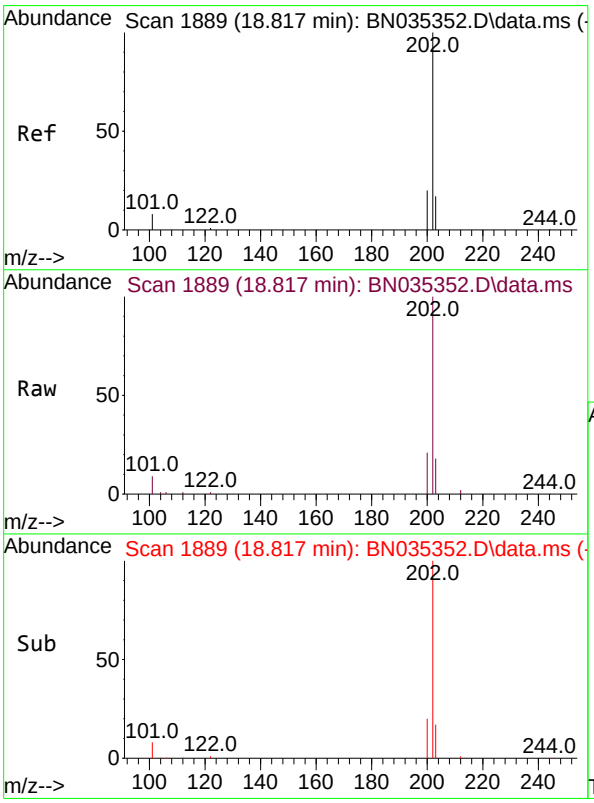
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

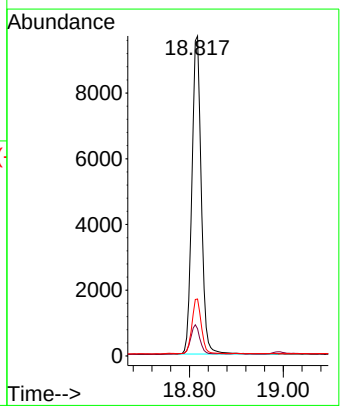
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

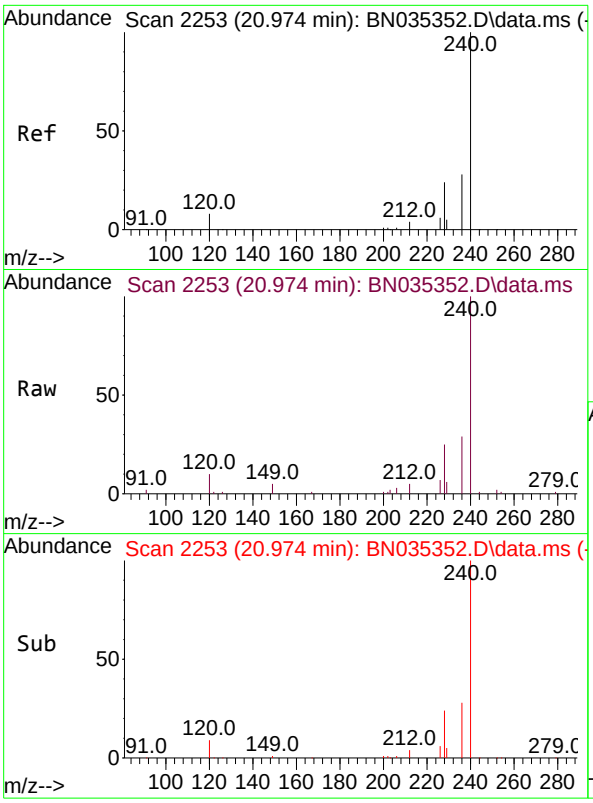


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

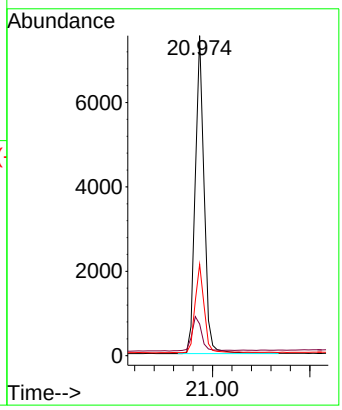




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:240 Resp: 952

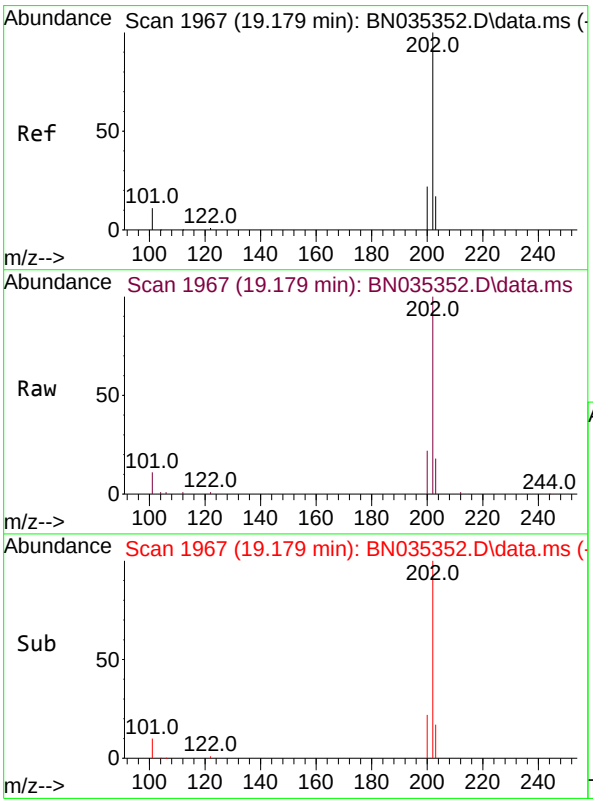
Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

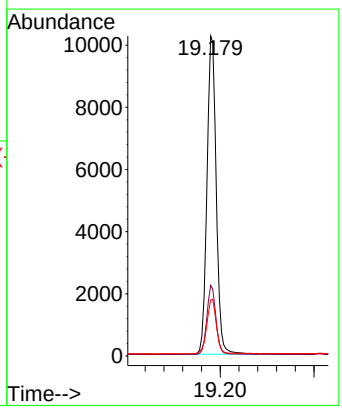
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

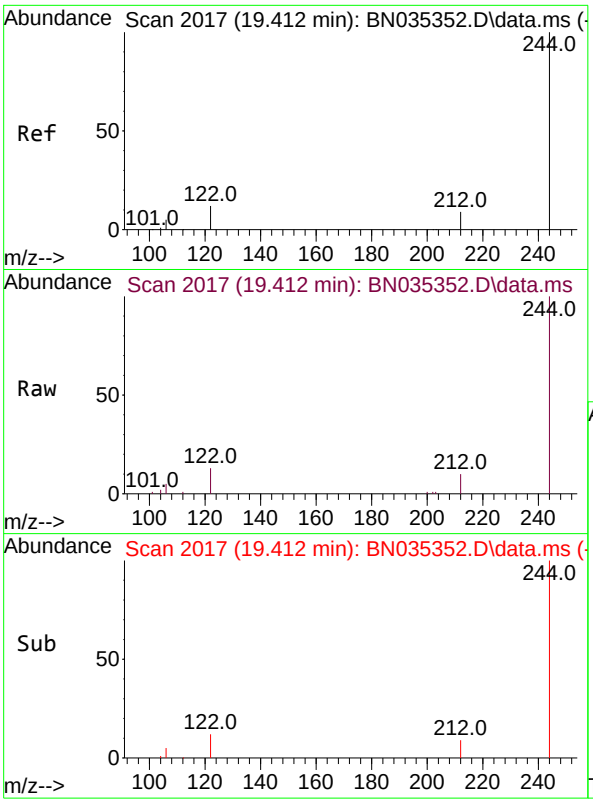


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5

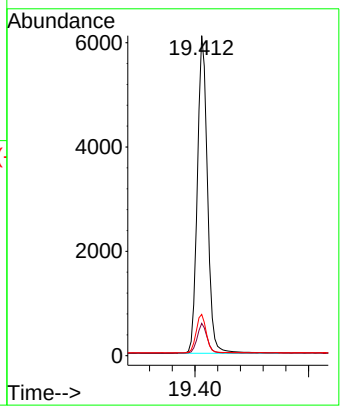




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:244 Resp: 753

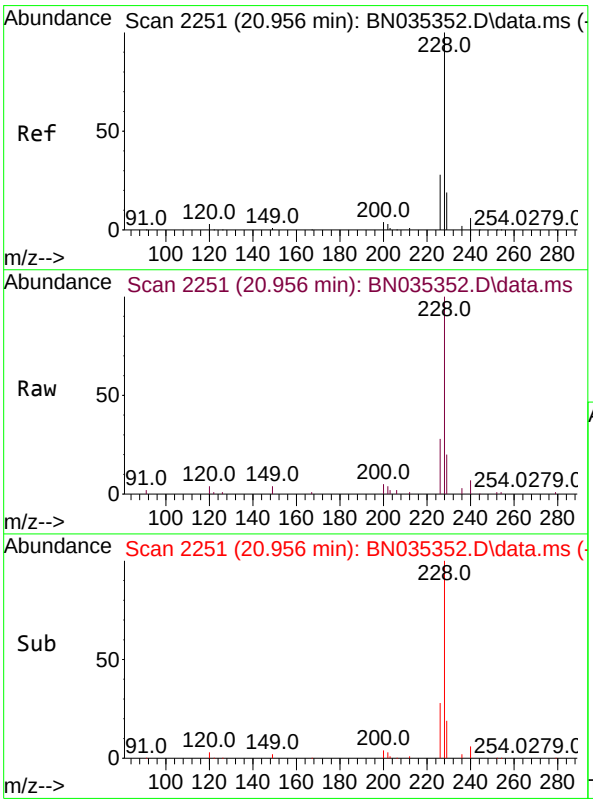
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

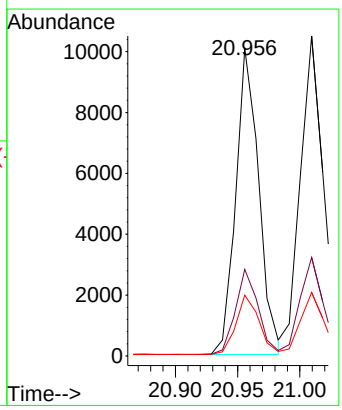
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

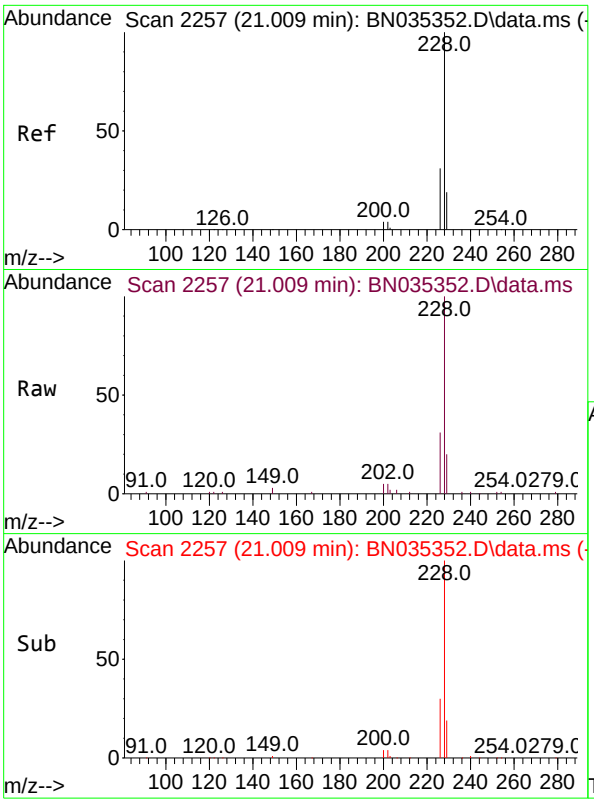


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8

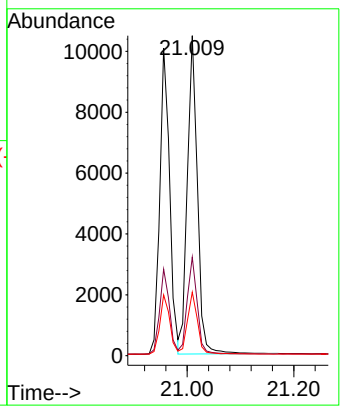




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 1372

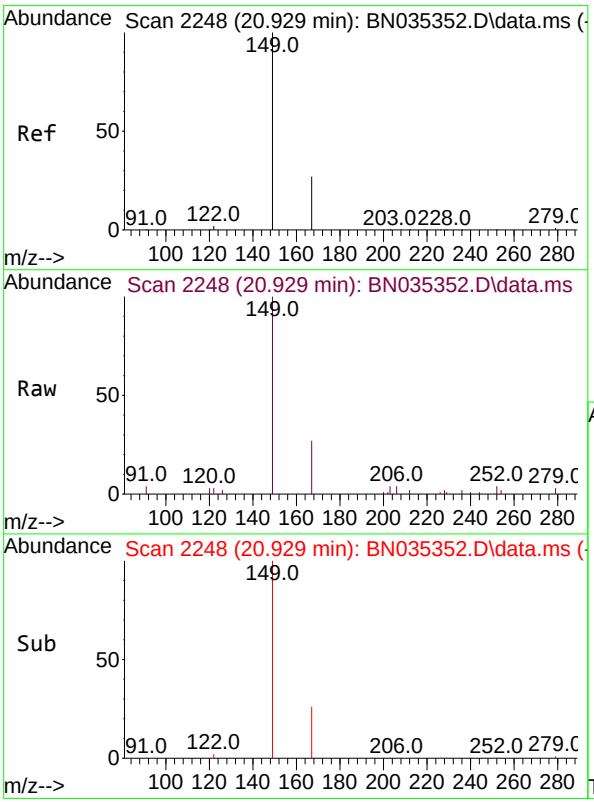
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

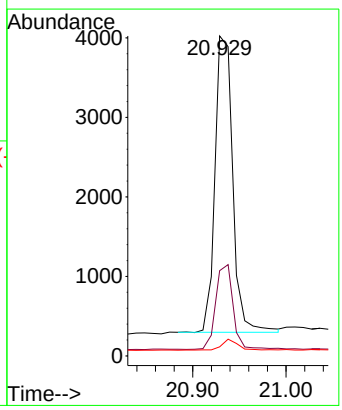
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

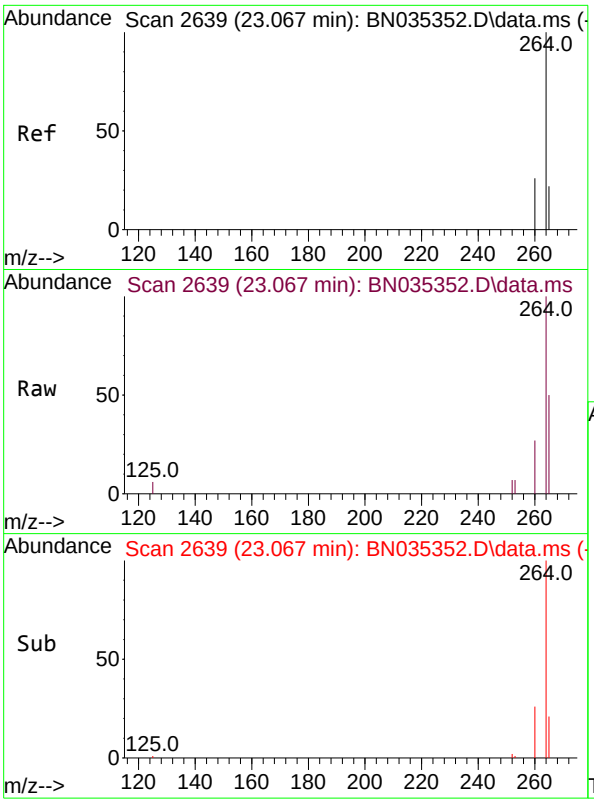


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1

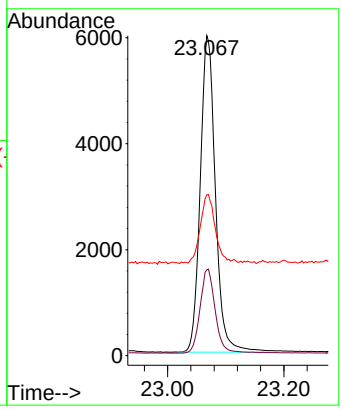




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:264 Resp: 1084

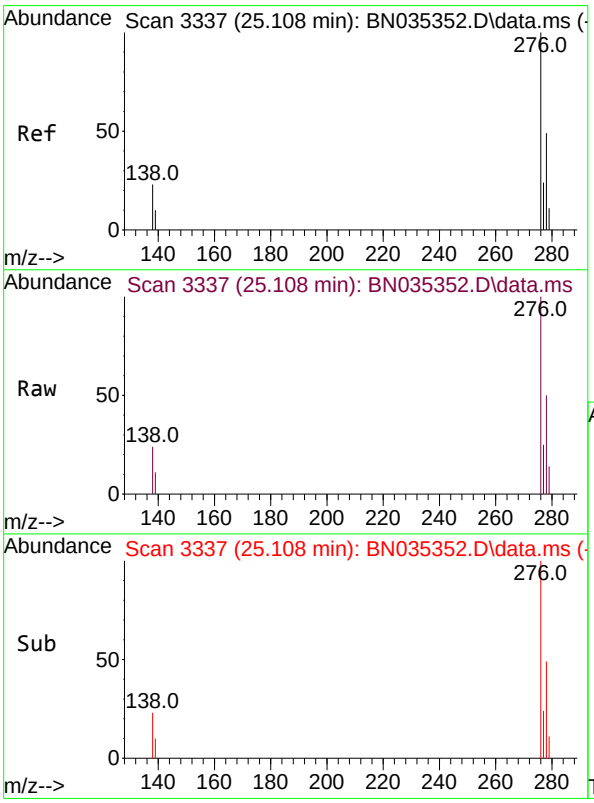
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

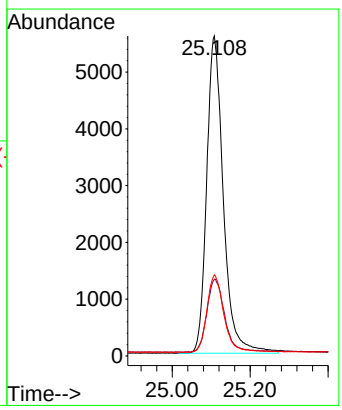
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

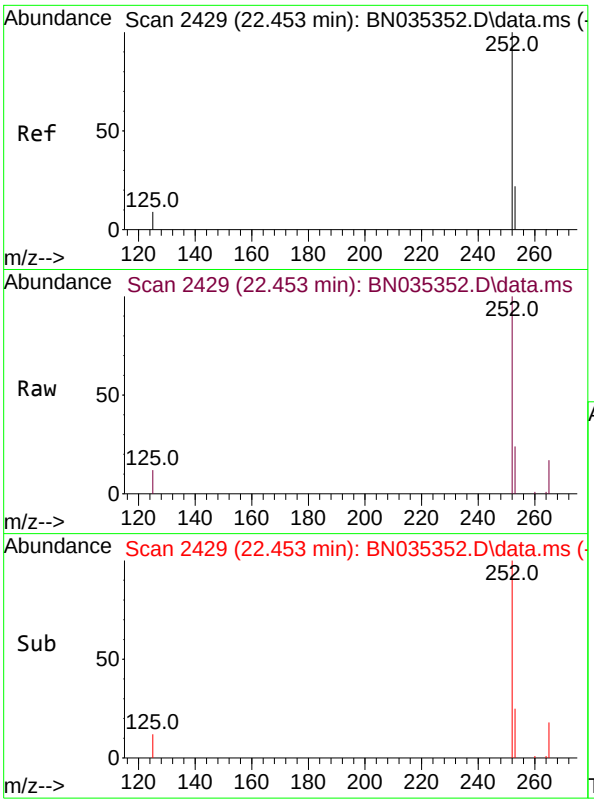


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6

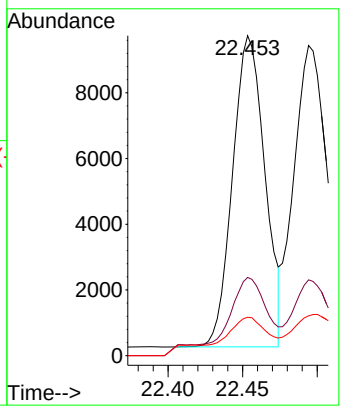




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1423

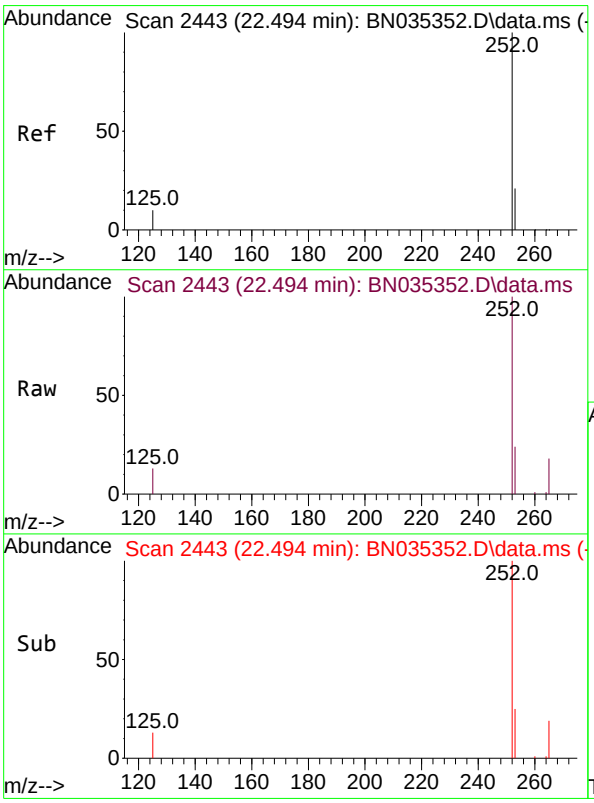
Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

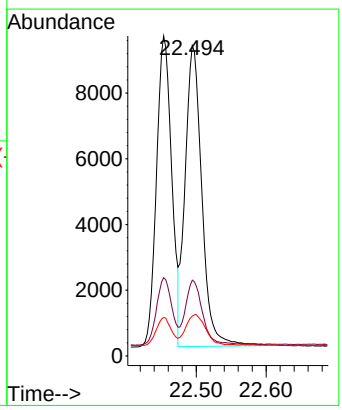
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

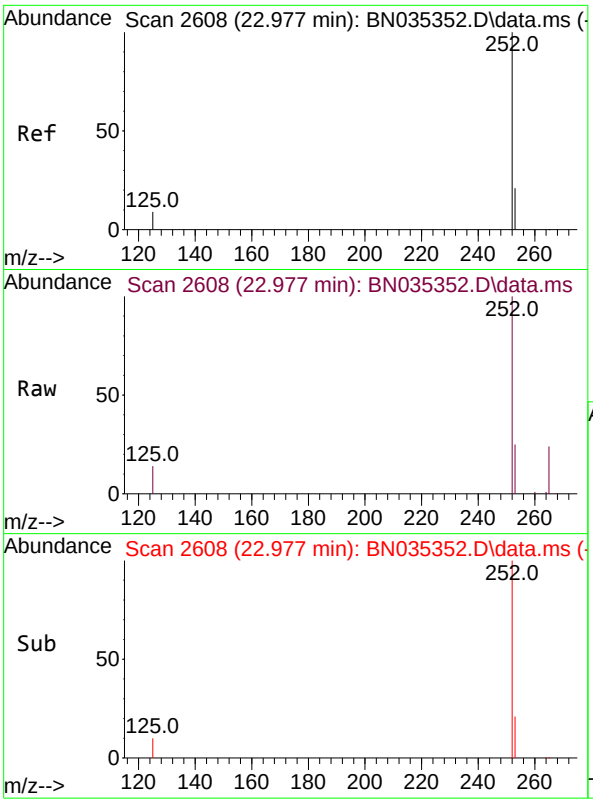


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4

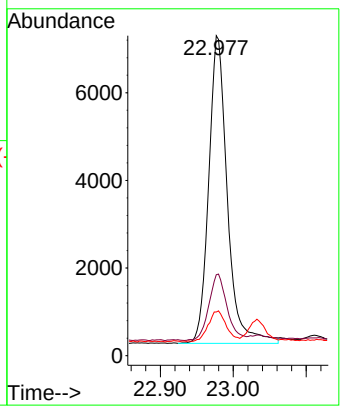




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1242

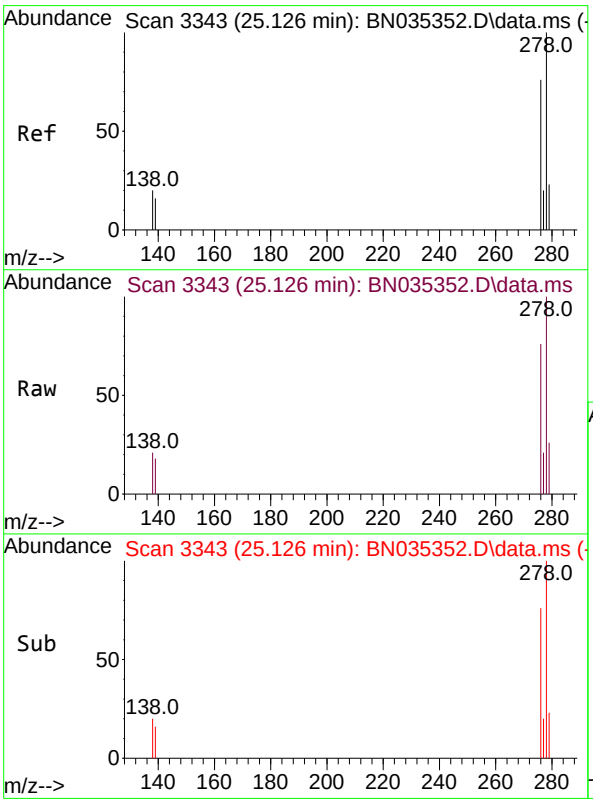
Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

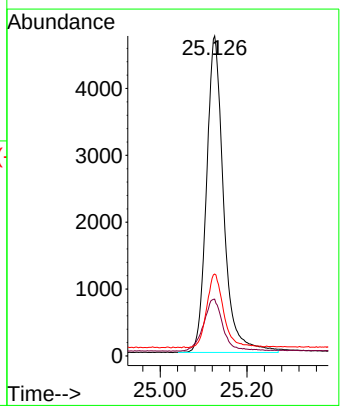
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

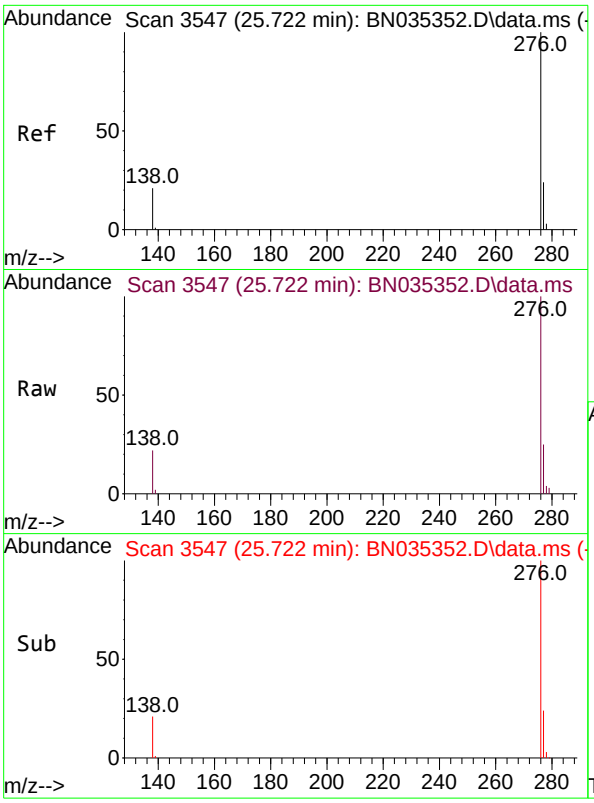


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7

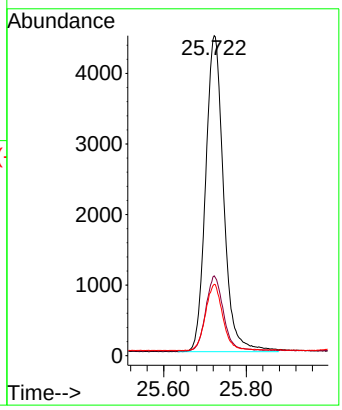




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 1352

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng		0.00
35) Perylene-d12	23.067	264	10698	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	3924	0.755	ng		0.00
5) Phenol-d6	6.513	99	4681	0.718	ng		0.00
8) Nitrobenzene-d5	8.440	82	2634	0.570	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	6530	0.690	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	2051	0.744	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	11528	0.742	ng		0.00
27) Fluoranthene-d10	18.785	212	21050	0.721	ng		0.00
31) Terphenyl-d14	19.412	244	15171	0.735	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	1554	0.836	ng		99
3) n-Nitrosodimethylamine	3.292	42	1291	0.745	ng	#	98
6) bis(2-Chloroethyl)ether	6.759	93	4066	0.831	ng		100
9) Naphthalene	10.105	128	10954	0.790	ng		99
10) Hexachlorobutadiene	10.404	225	2559	0.630	ng	#	100
12) 2-Methylnaphthalene	11.732	142	7925	0.775	ng		99
16) Acenaphthylene	13.679	152	12523	0.766	ng		100
17) Acenaphthene	14.031	154	8470	0.791	ng		99
18) Fluorene	15.026	166	12232	0.777	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	784	0.395	ng	#	88
21) 4-Bromophenyl-phenylether	15.941	248	4440	0.732	ng		98
22) Hexachlorobenzene	16.041	284	5253	0.834	ng		99
23) Atrazine	16.227	200	2978	0.547	ng		99
24) Pentachlorophenol	16.400	266	1968	0.669	ng		87
25) Phenanthrene	16.773	178	20803	0.830	ng		100
26) Anthracene	16.860	178	18528	0.805	ng		99
28) Fluoranthene	18.813	202	27743	0.805	ng		100
30) Pyrene	19.180	202	28384	0.866	ng		100
32) Benzo(a)anthracene	20.956	228	27048	0.790	ng		99
33) Chrysene	21.010	228	27838	0.820	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	9941	0.553	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	33248	0.779	ng		100
37) Benzo(b)fluoranthene	22.453	252	29491	0.819	ng		96
38) Benzo(k)fluoranthene	22.494	252	30369	0.843	ng		96
39) Benzo(a)pyrene	22.977	252	25053	0.791	ng		96
40) Dibenzo(a,h)anthracene	25.123	278	26222	0.775	ng		98
41) Benzo(g,h,i)perylene	25.722	276	27143	0.755	ng		98

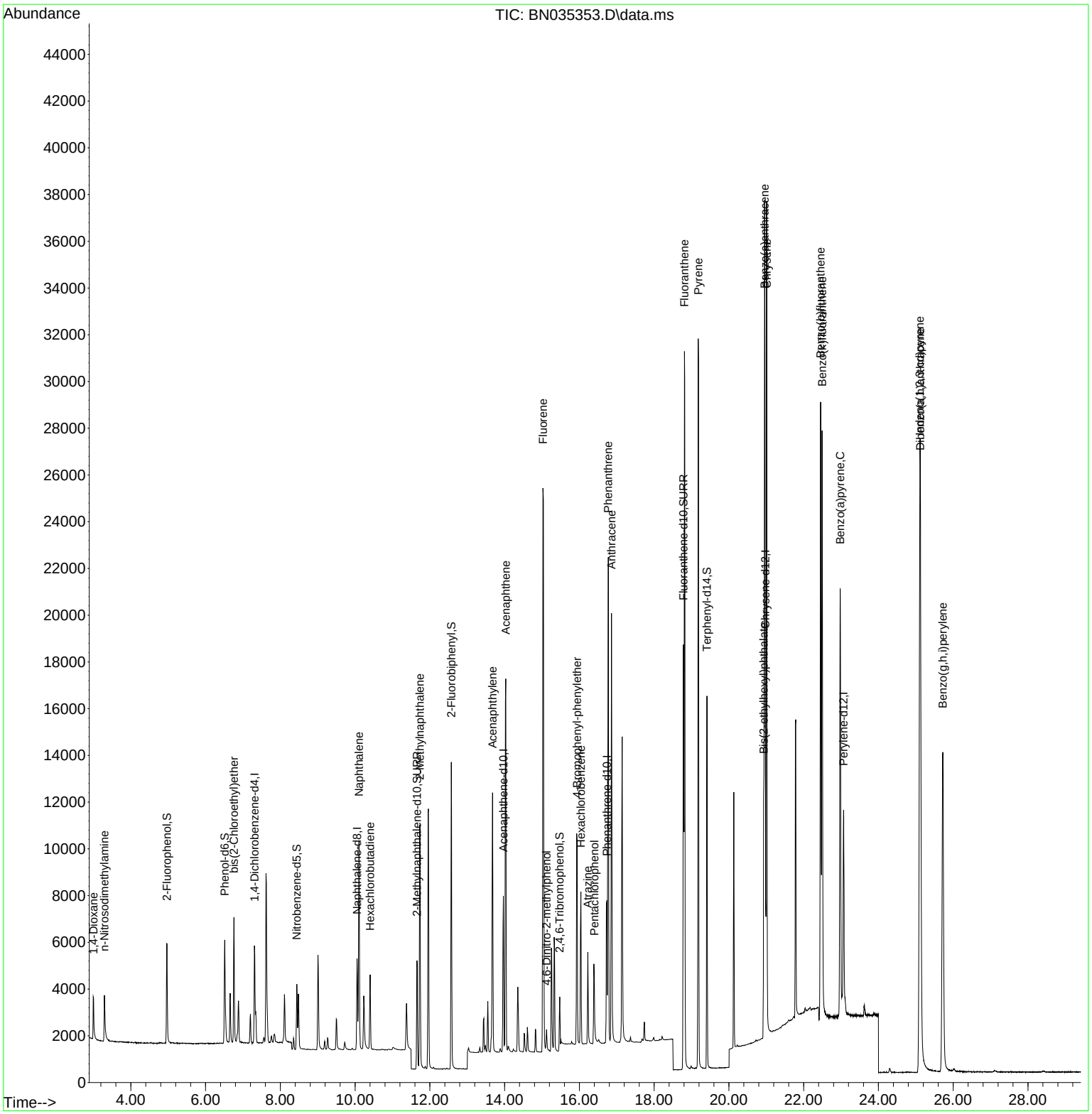
(#) = qualifier out of range (m) = manual integration (+) = signals summed

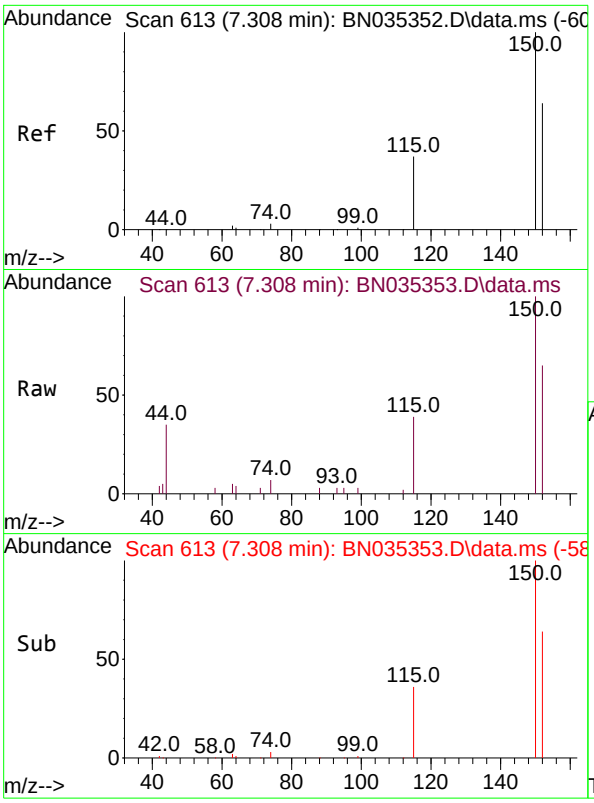
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



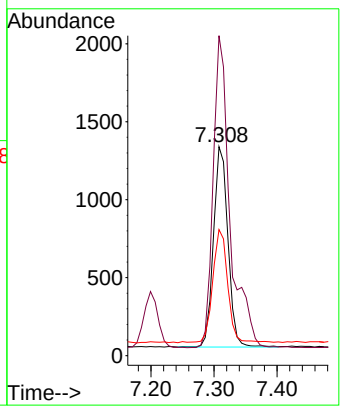


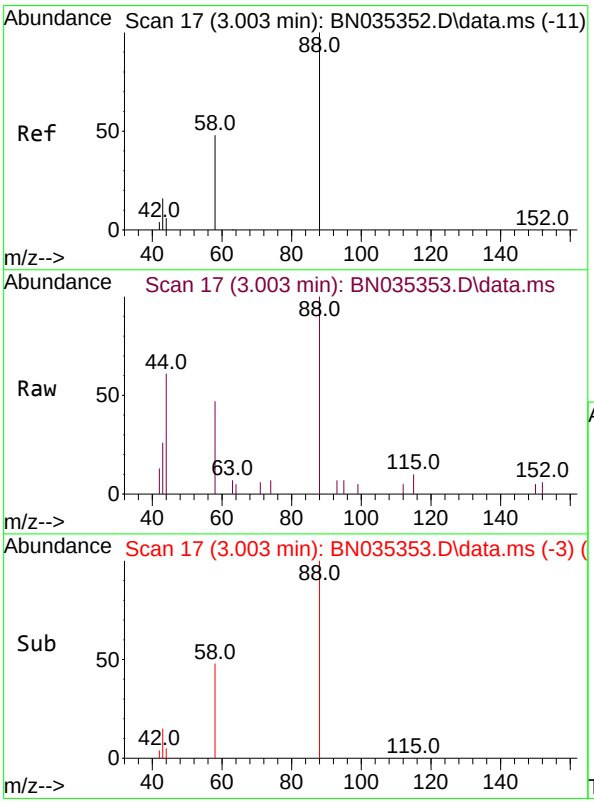
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2047

Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

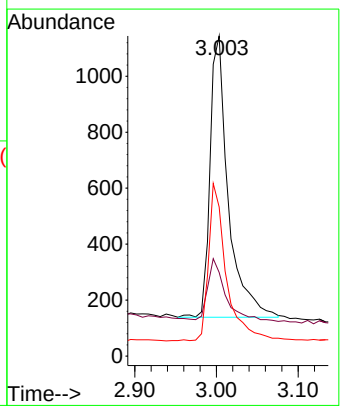


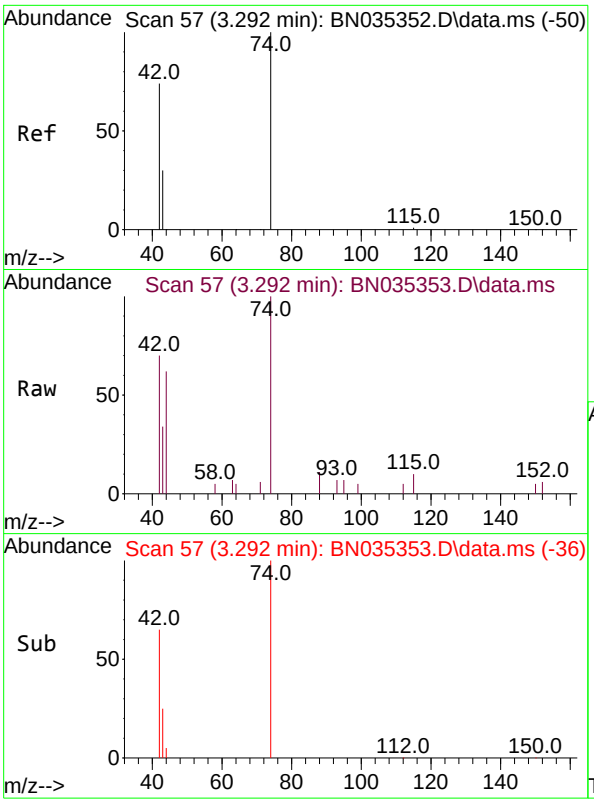


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	54.8	44.5	66.7



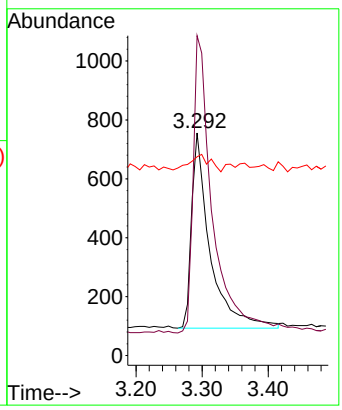


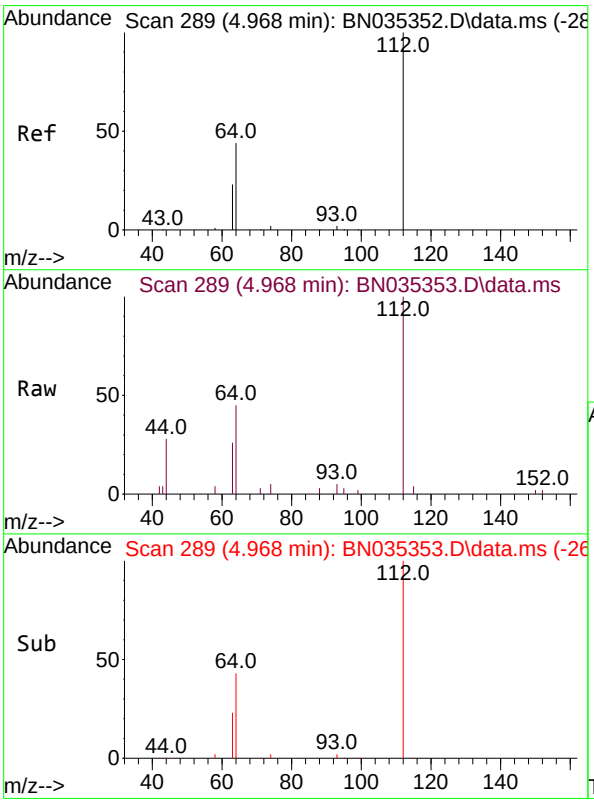
#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1291

Ion	Ratio	Lower	Upper
42	100		
74	158.7	124.9	187.3
44	9.8	2.2	3.4#

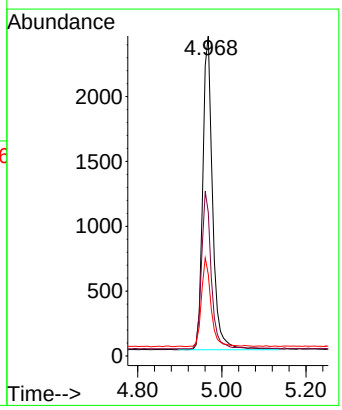


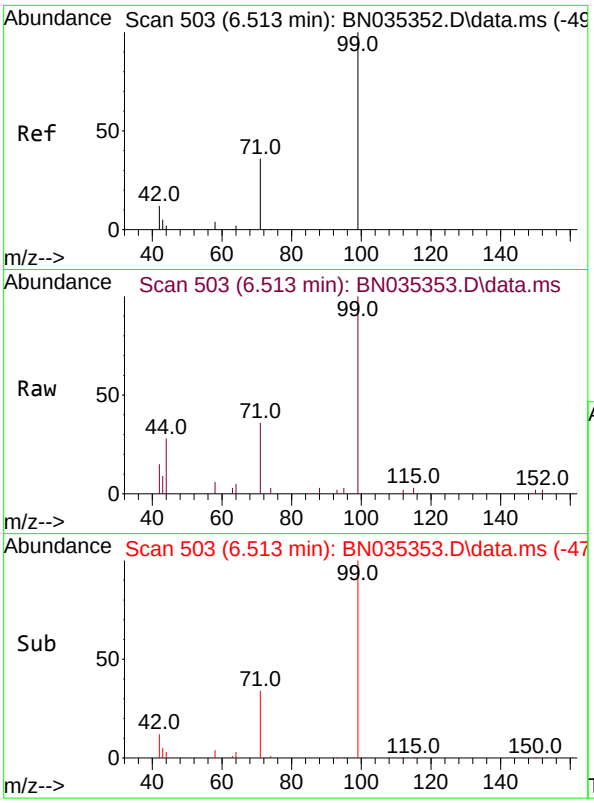


#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:112 Resp: 3924

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	27.0	21.0	31.6



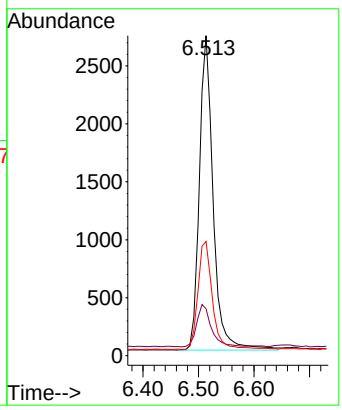


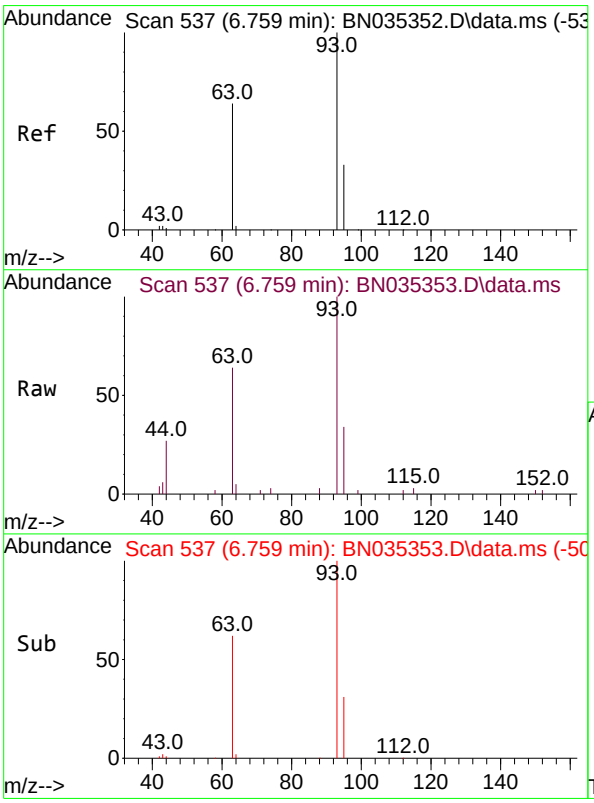
#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4681

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9

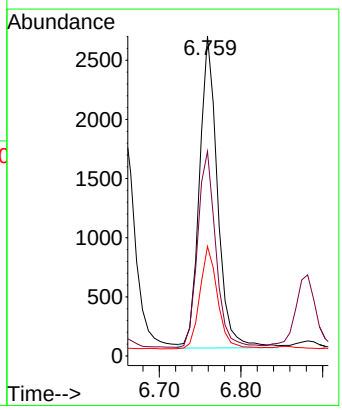


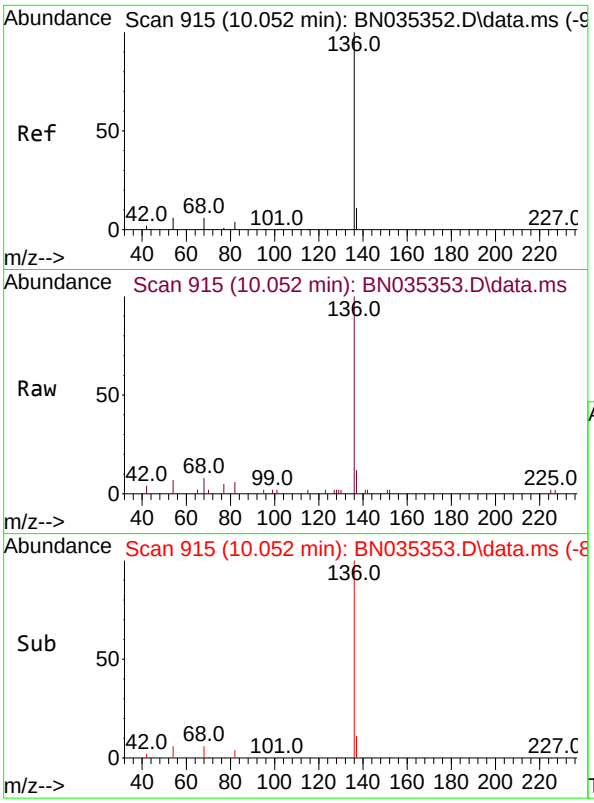


#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 93 Resp: 4066

Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5



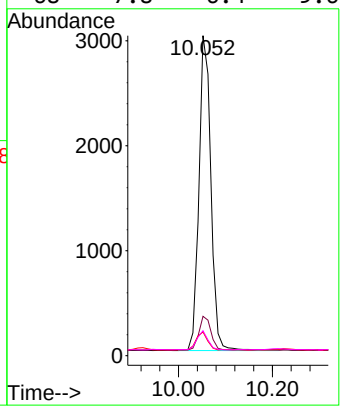


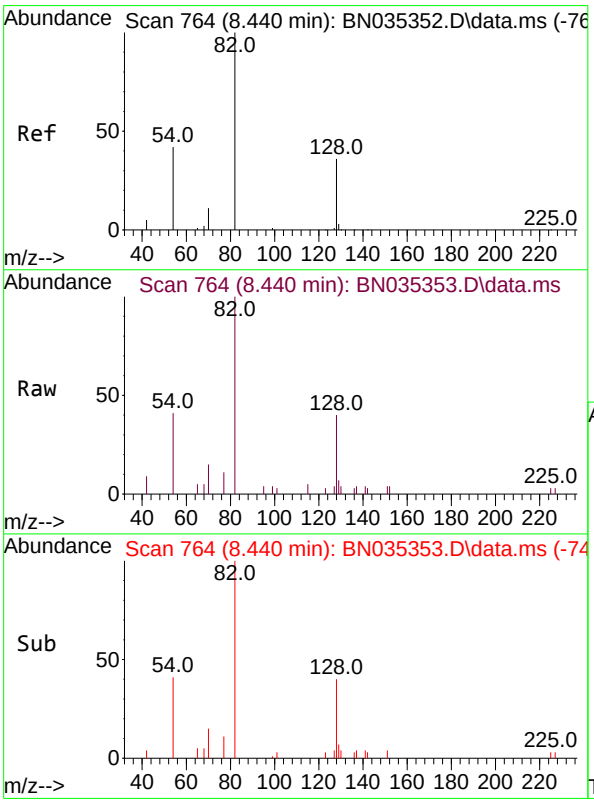
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5308

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6

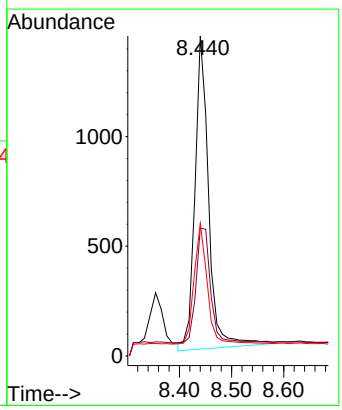


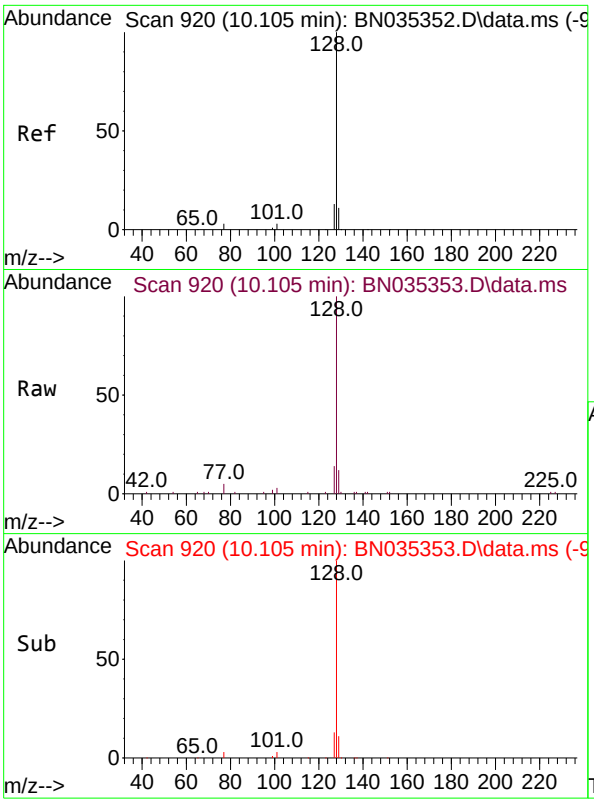


#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 82 Resp: 2634

Ion	Ratio	Lower	Upper
82	100		
128	40.0	33.4	50.0
54	41.5	36.7	55.1



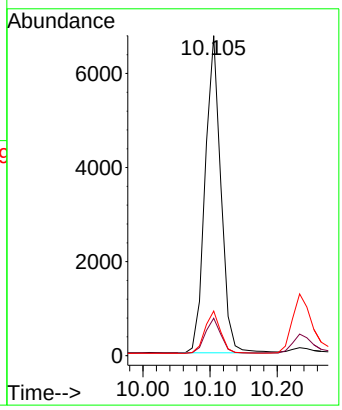


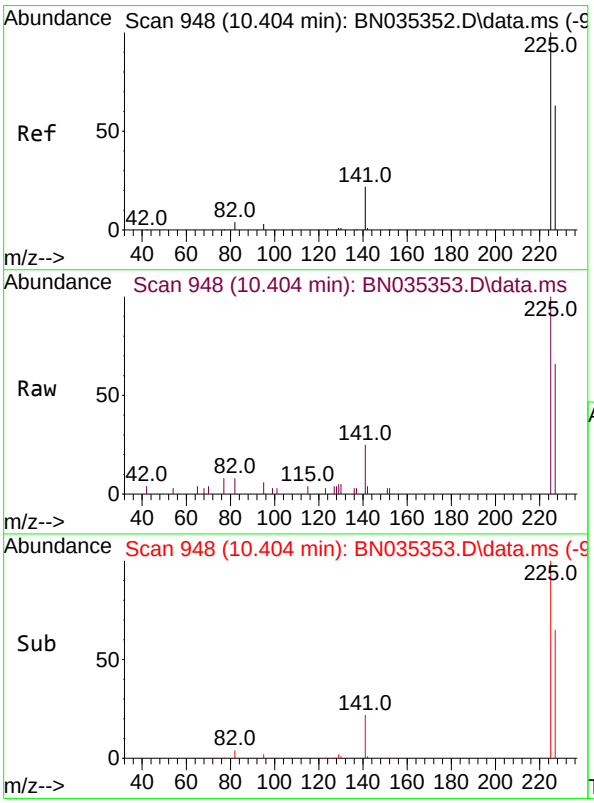
#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 10954

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.9	11.4	17.2

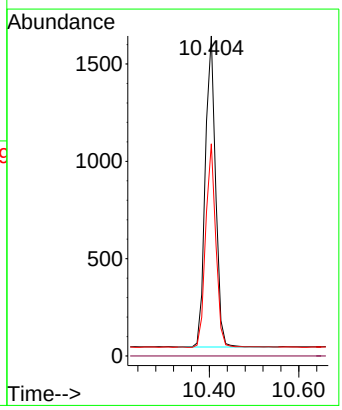


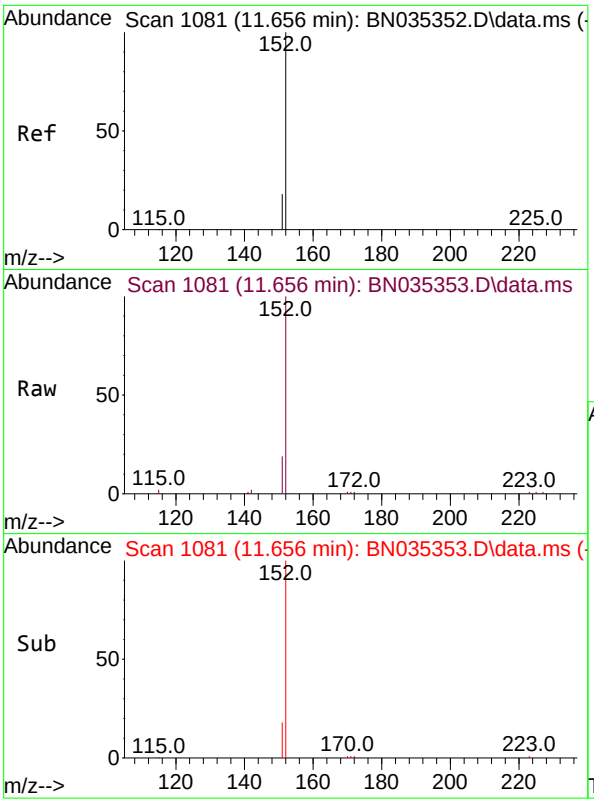


#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



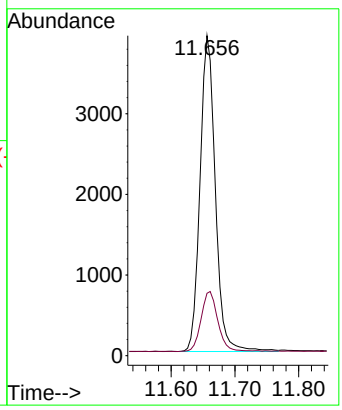


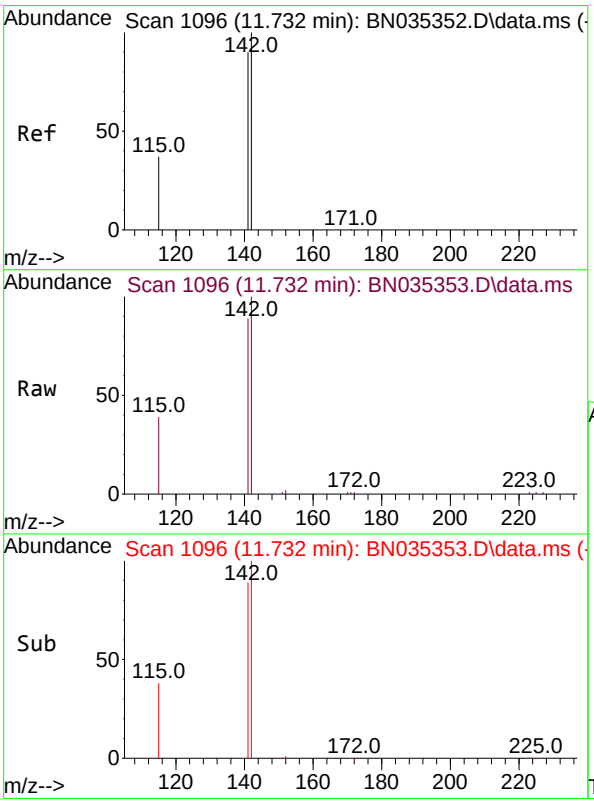
#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

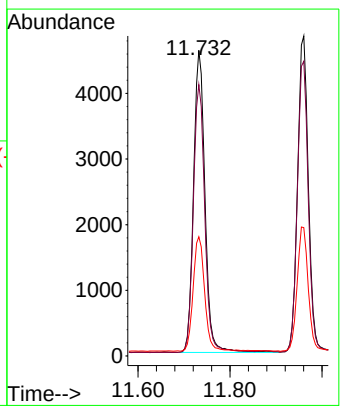


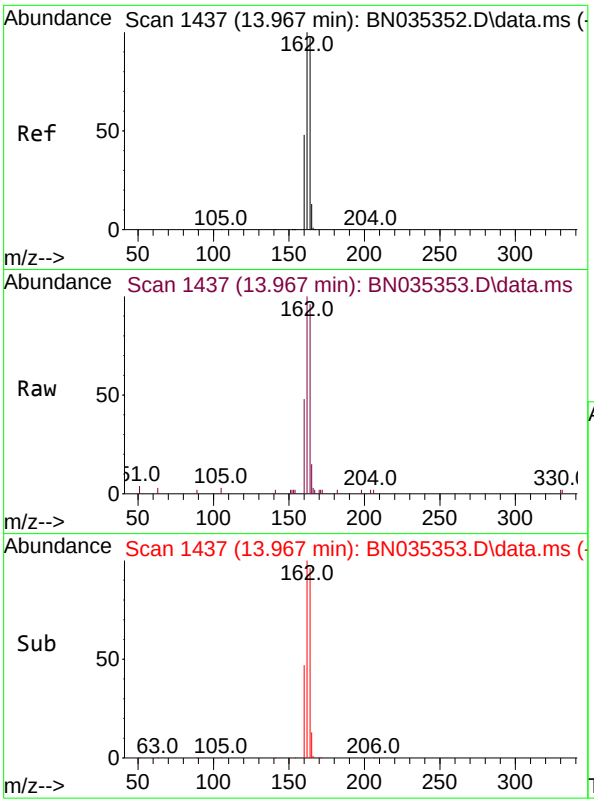


#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	39.0	31.4	47.0



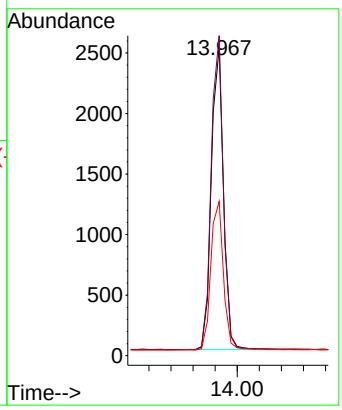


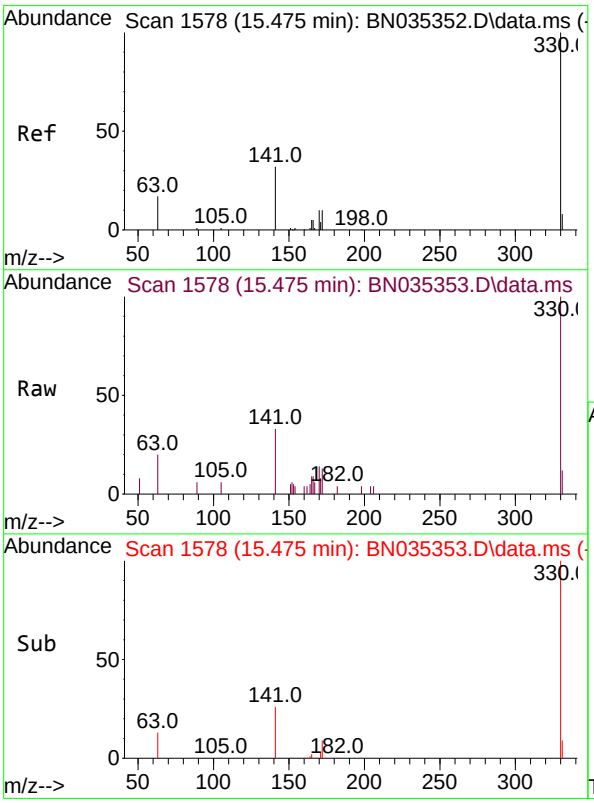
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3823

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.1	40.1	60.1

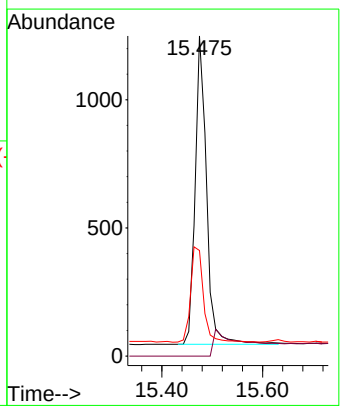


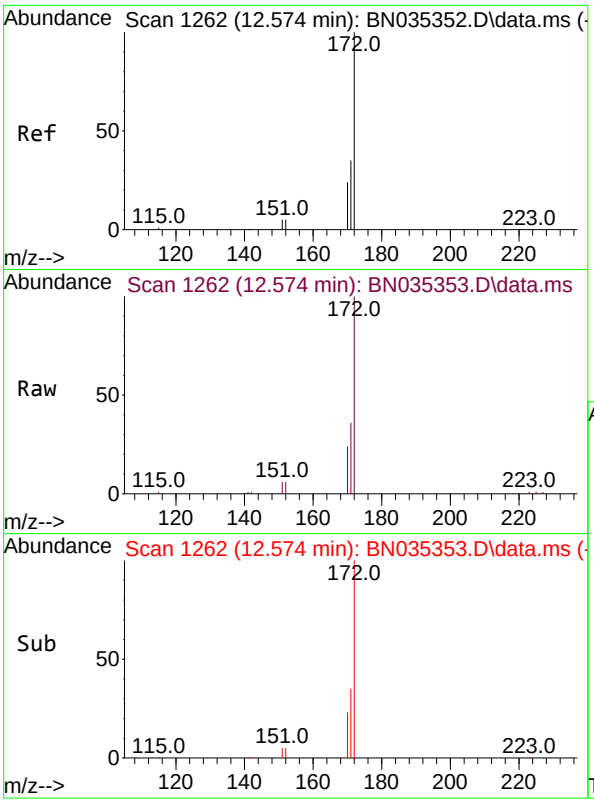


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



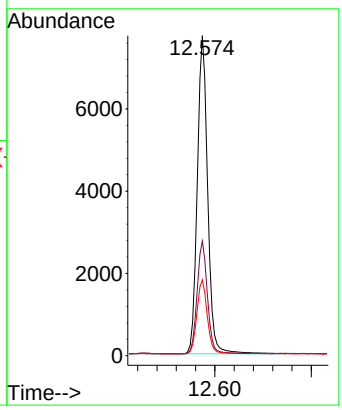


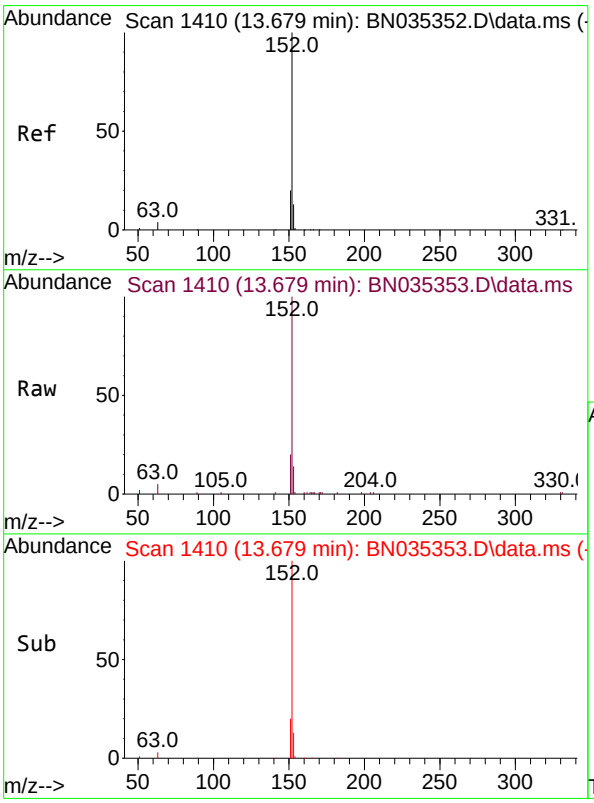
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 11528

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.7	19.8	29.8

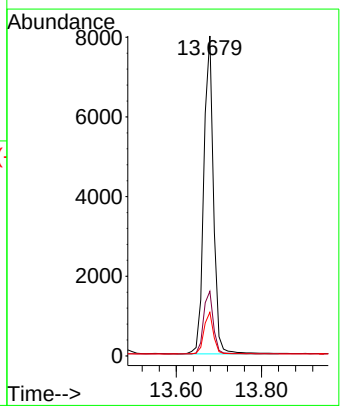


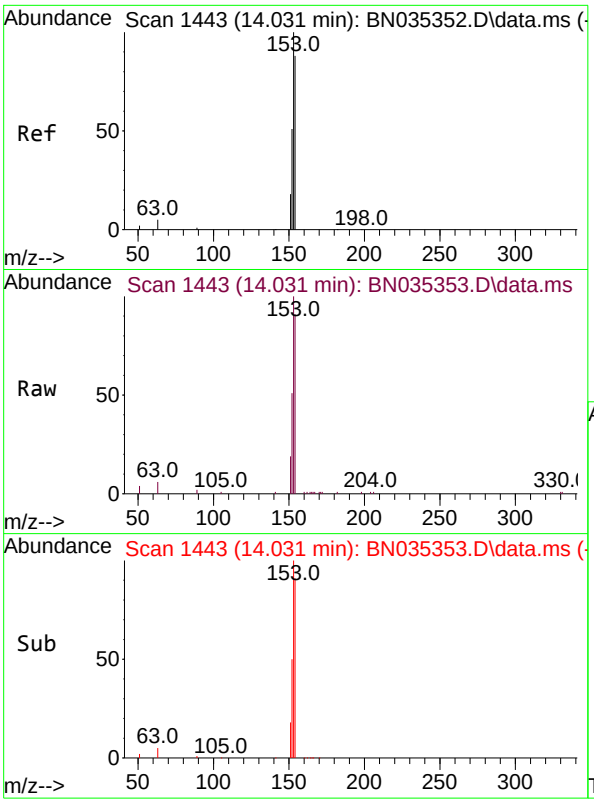


#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 12523

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	12.9	10.4	15.6



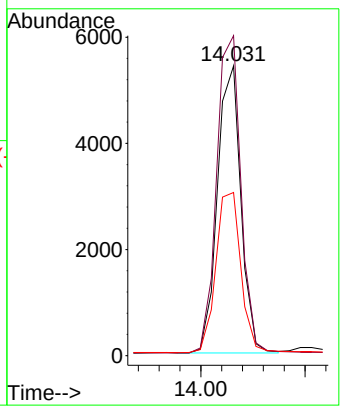


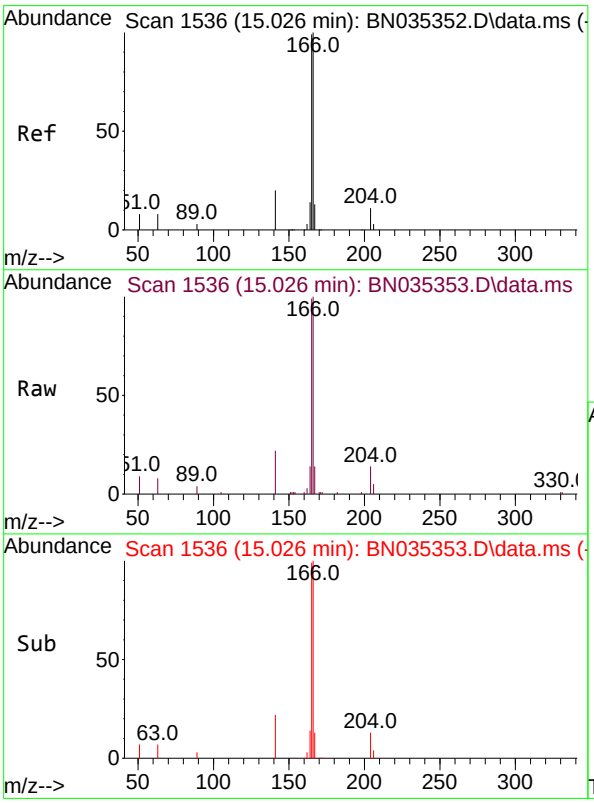
#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8470

Ion	Ratio	Lower	Upper
154	100		
153	114.8	92.6	139.0
152	60.2	49.0	73.6

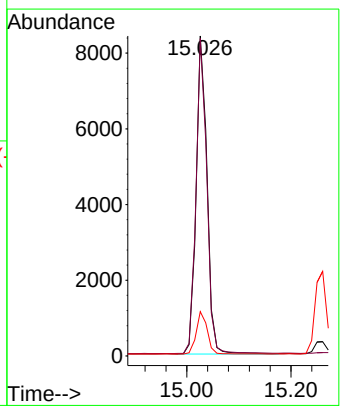


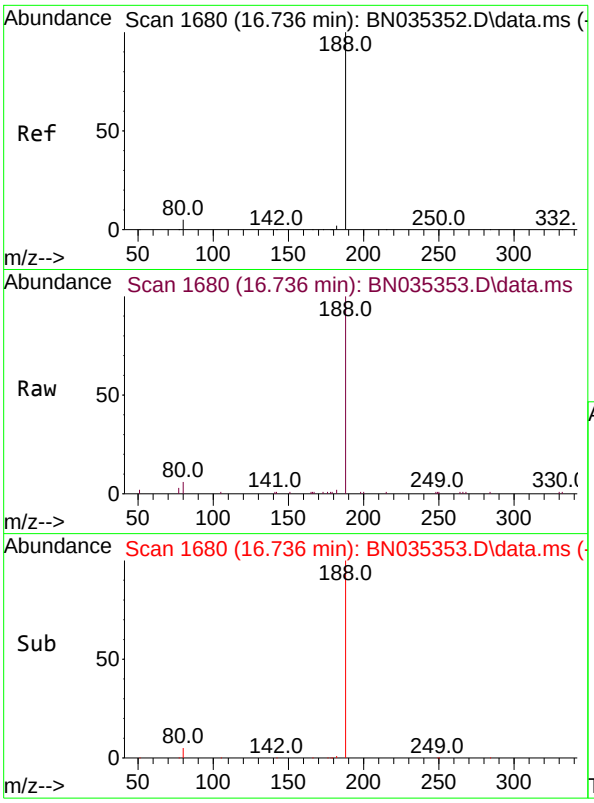


#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.5	10.8	16.2



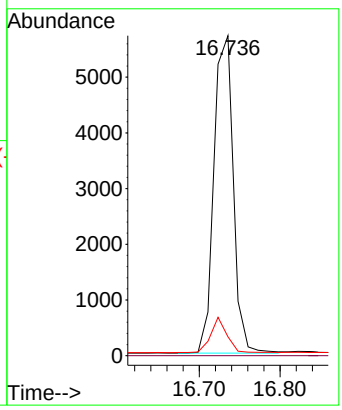


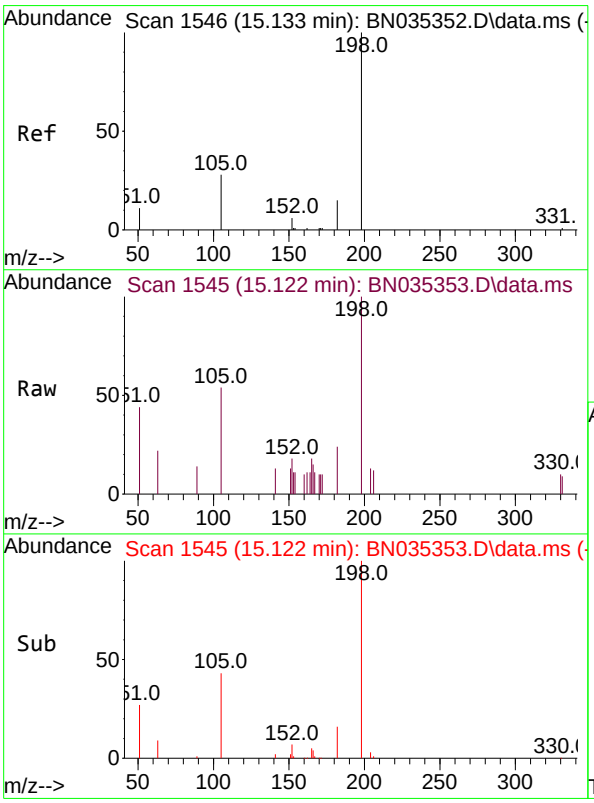
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 9525

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	4.6	6.8

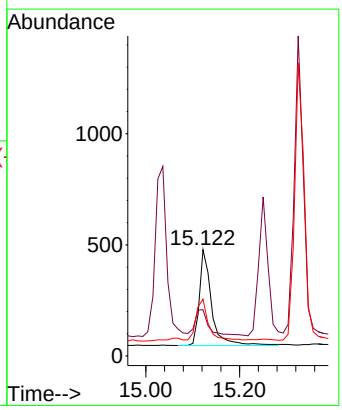


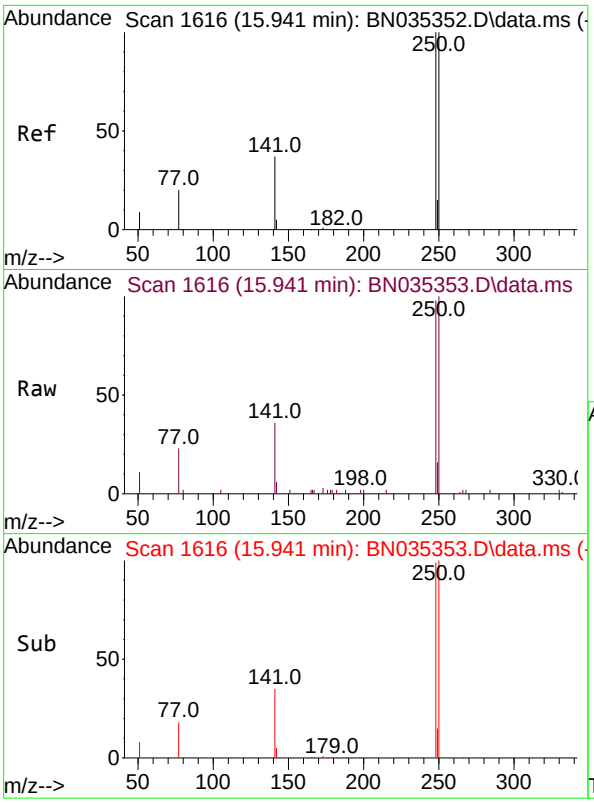


#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:198 Resp: 784

Ion	Ratio	Lower	Upper
198	100		
51	43.5	46.5	69.7#
105	53.6	45.3	67.9



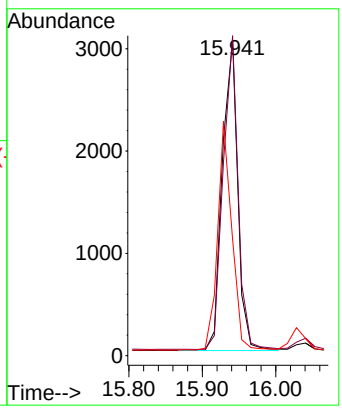


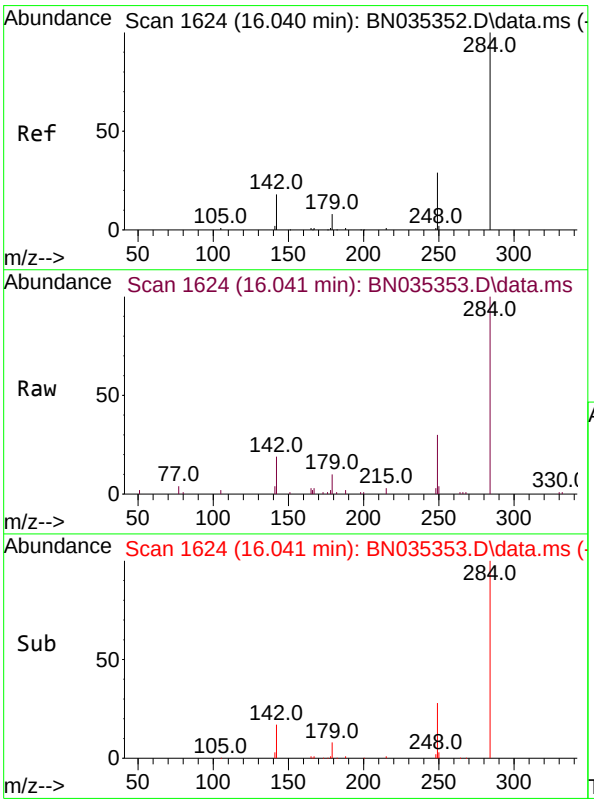
#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 4440

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3

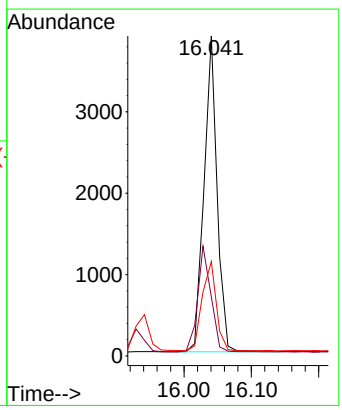


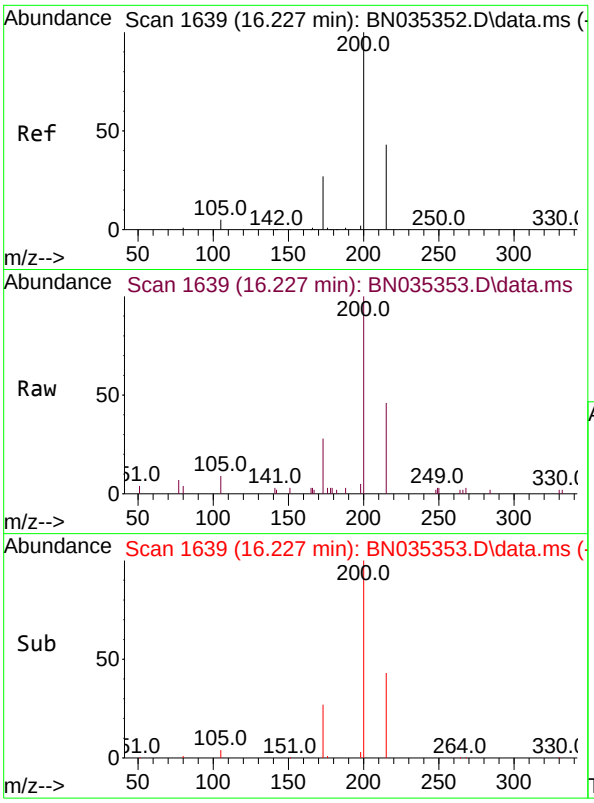


#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:284 Resp: 5253

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8



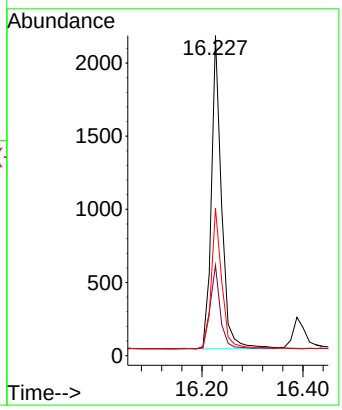


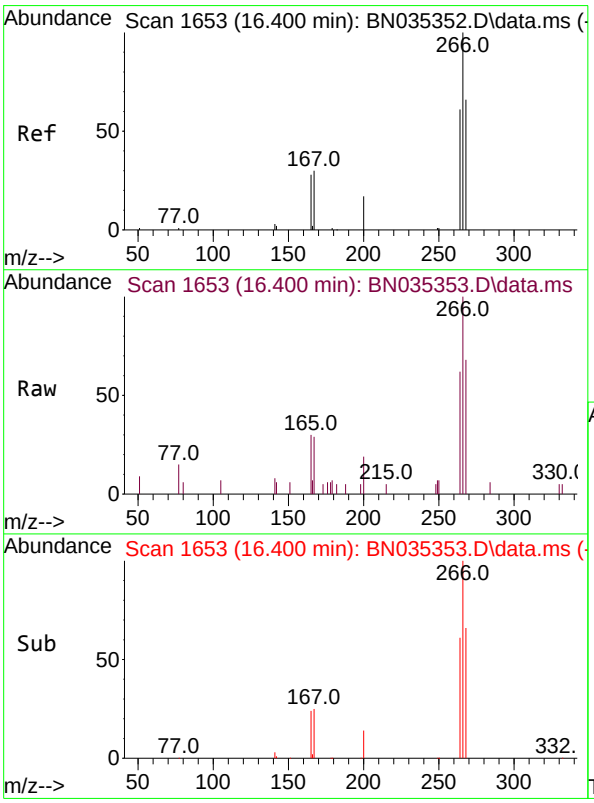
#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2978

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3

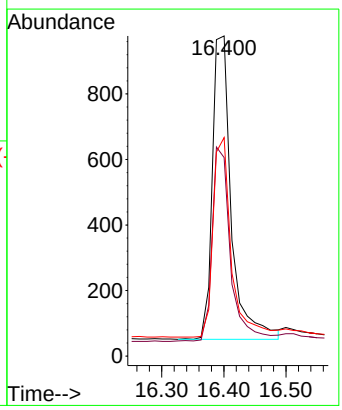


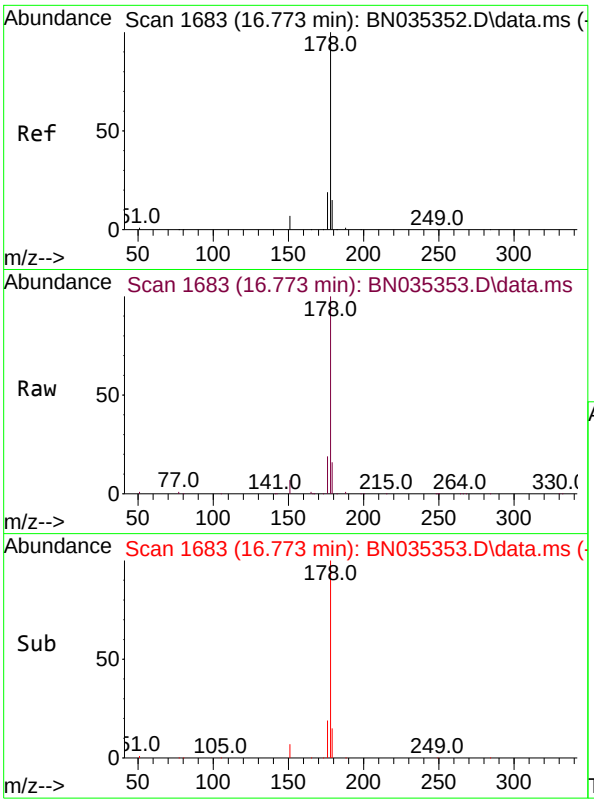


#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:266 Resp: 1968

Ion	Ratio	Lower	Upper
266	100		
264	61.9	42.3	63.5
268	63.7	43.3	64.9



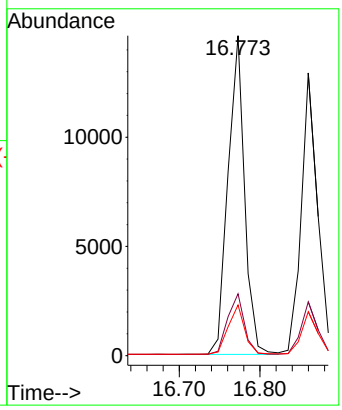


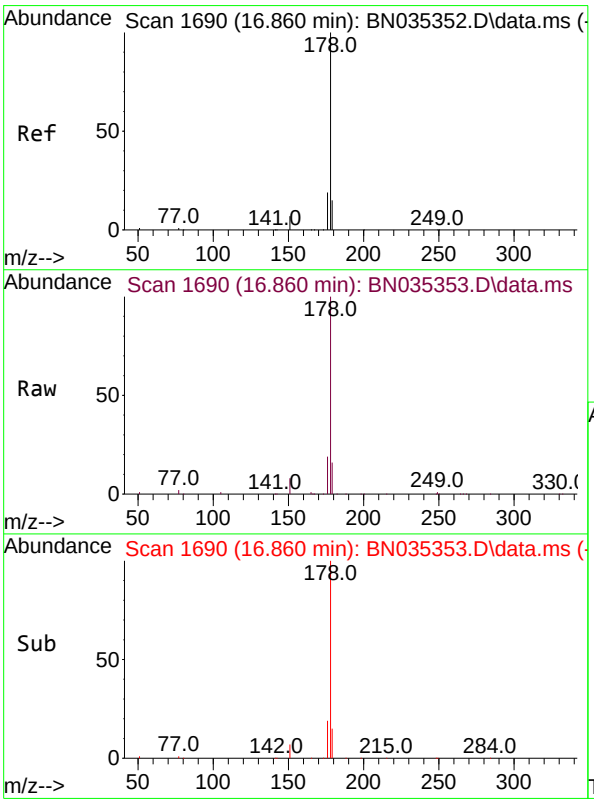
#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 20803

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.3	18.5

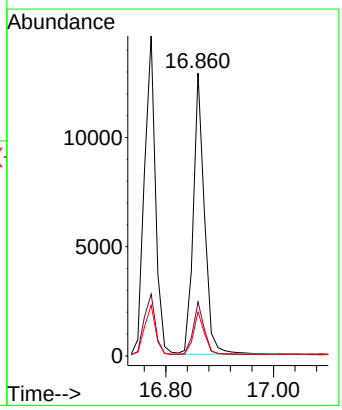


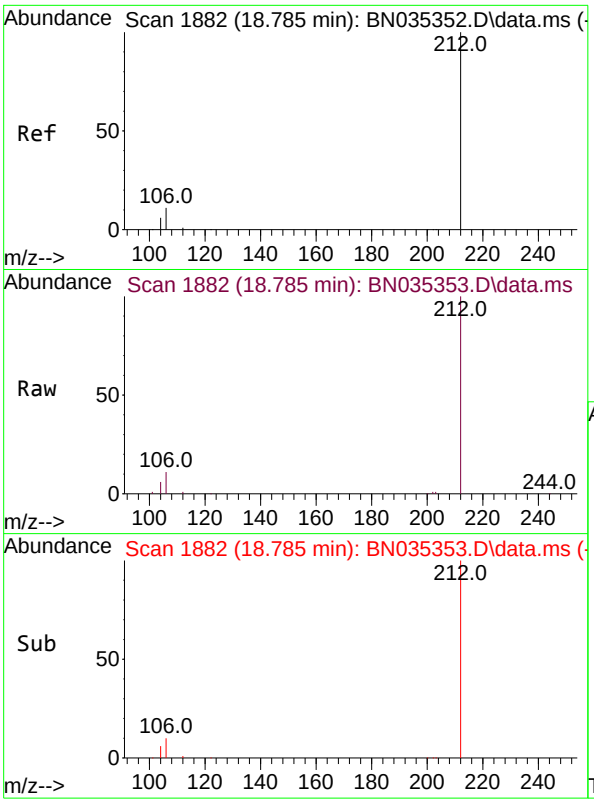


#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.6	18.8



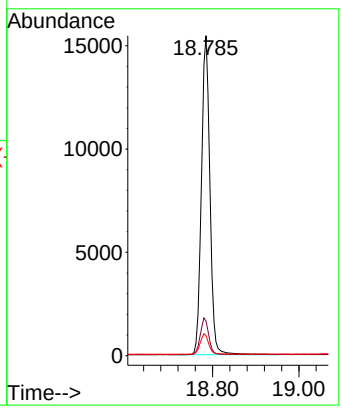


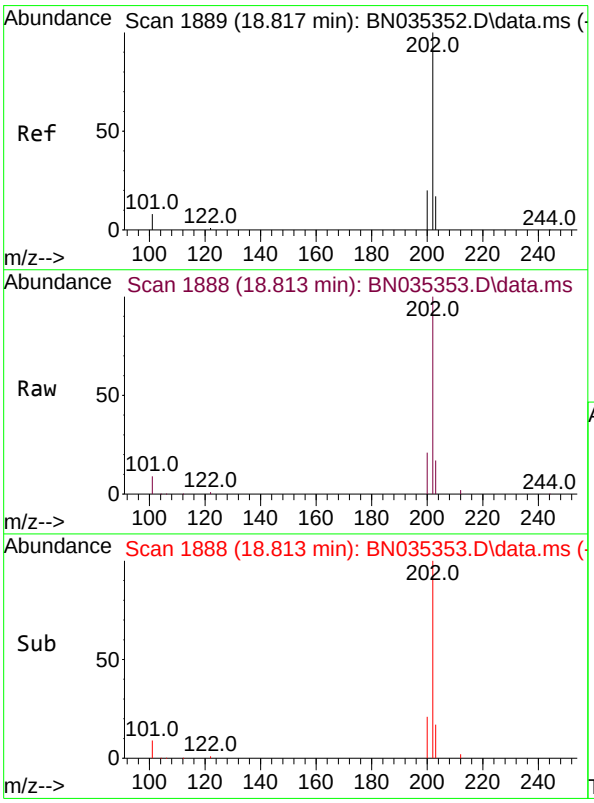
#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 21050

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

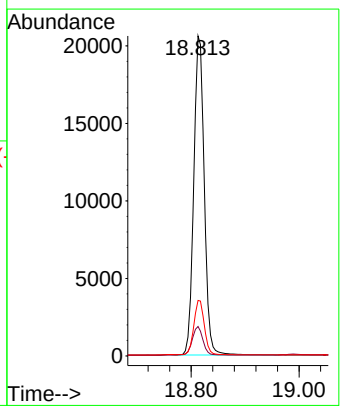


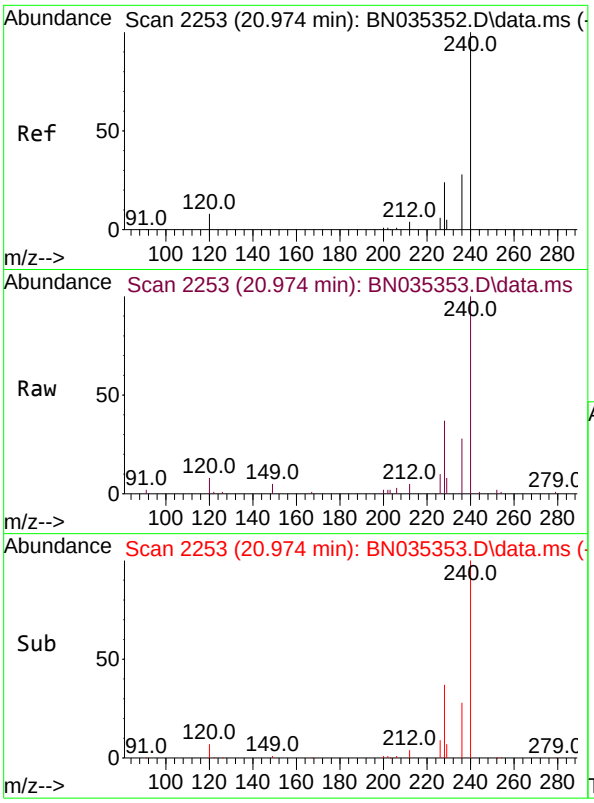


#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 27743

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5



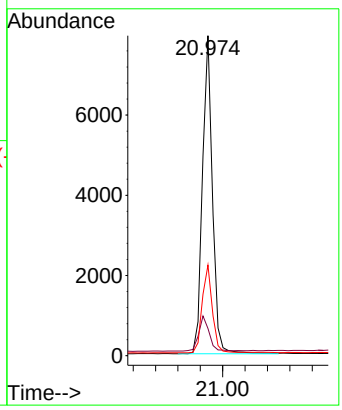


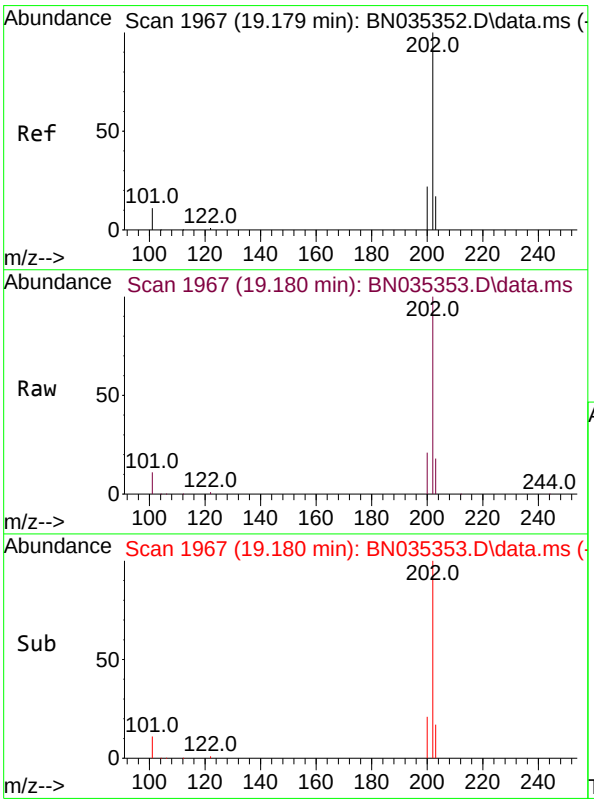
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 9837

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.9	11.9
236	28.3	22.9	34.3

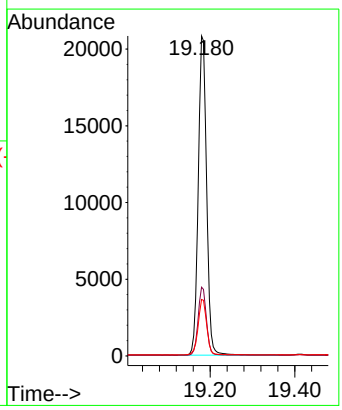


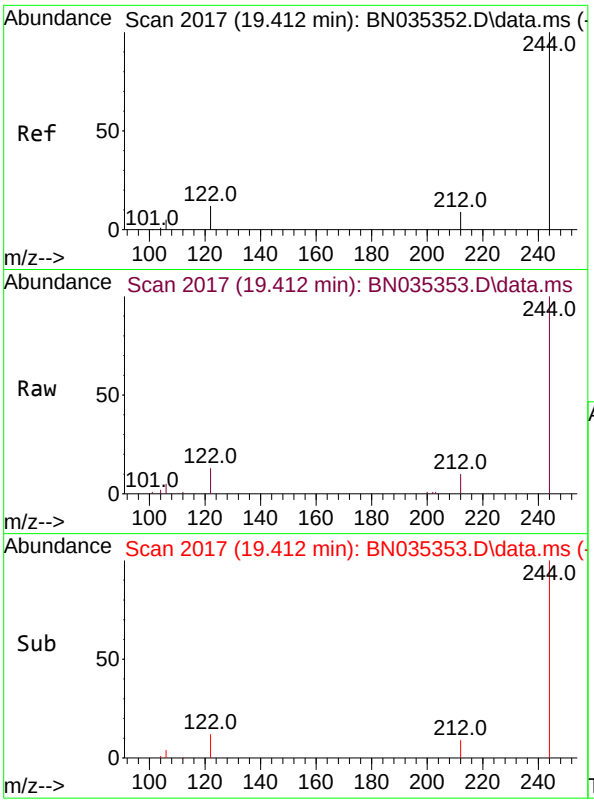


#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 28384

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.8	14.3	21.5



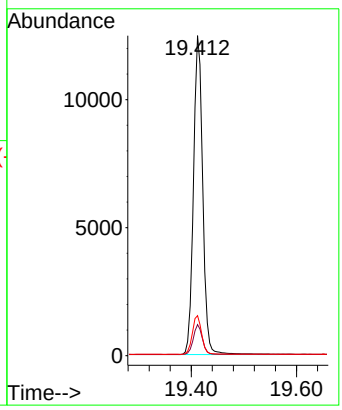


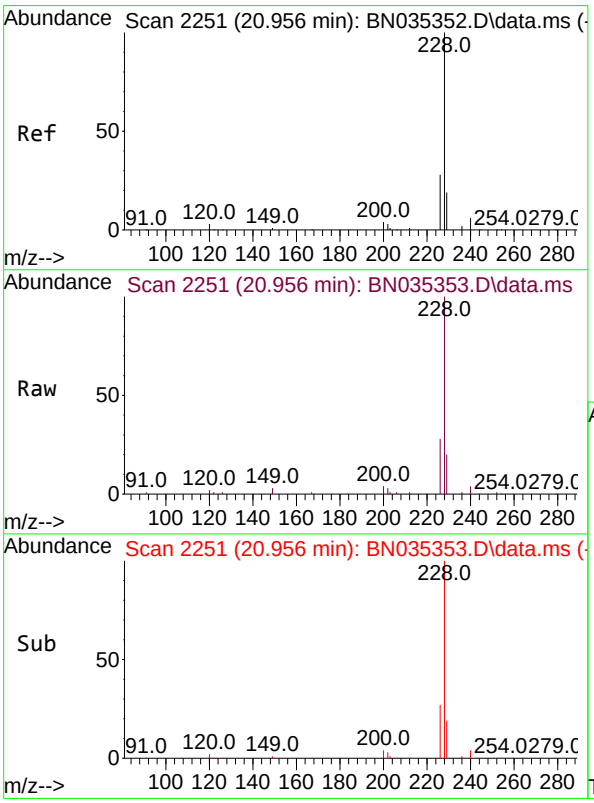
#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 15171

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.5	10.3	15.5

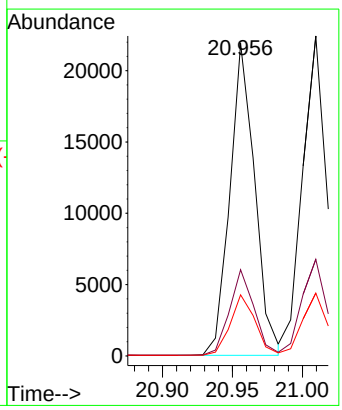


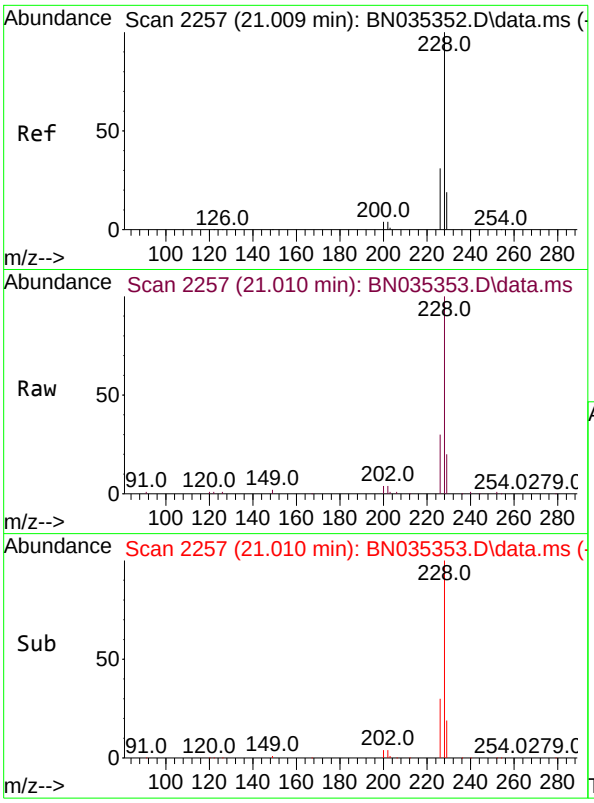


#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.5	15.8	23.8



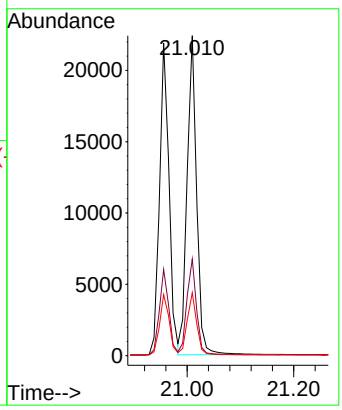


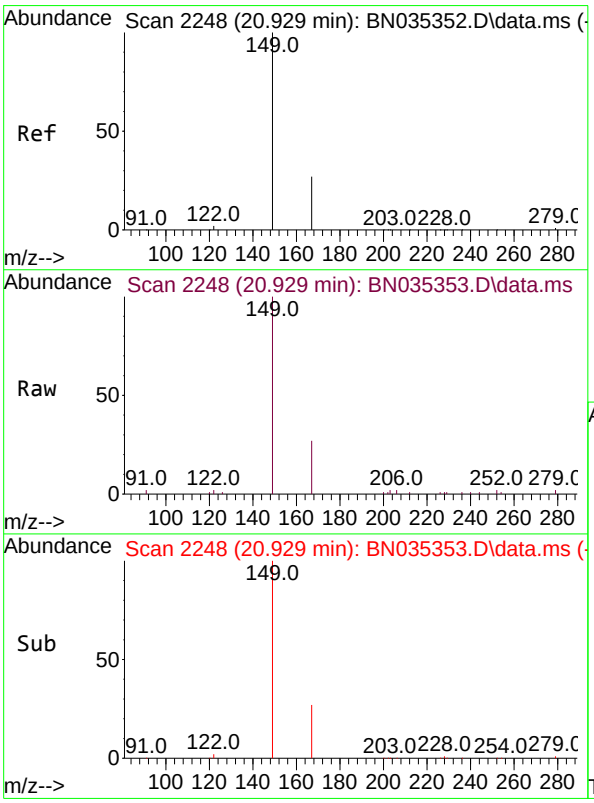
#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 27838

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.6	15.9	23.9

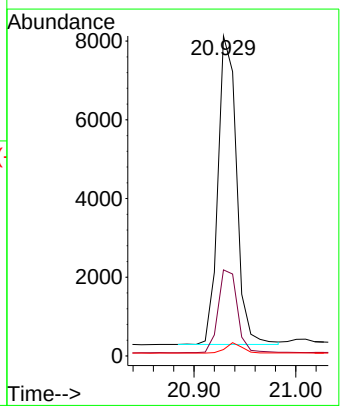


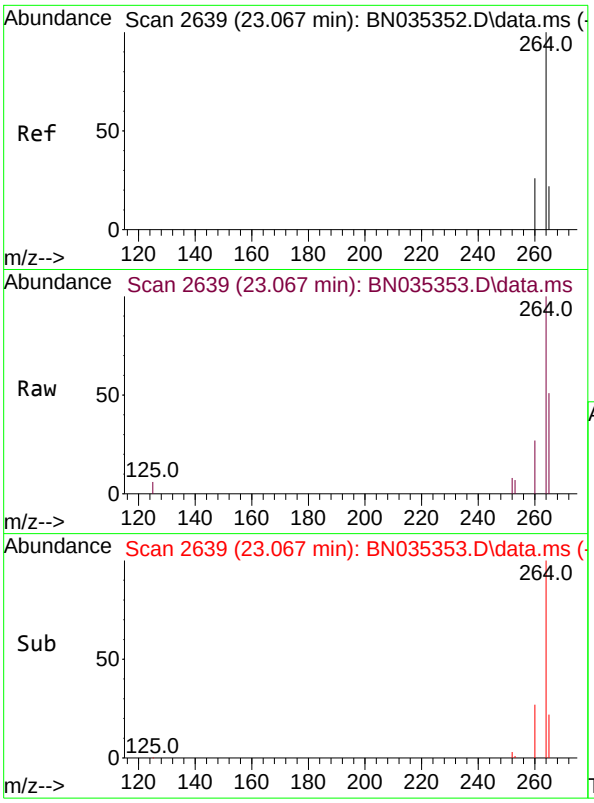


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:149 Resp: 9941

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.0	2.7	4.1



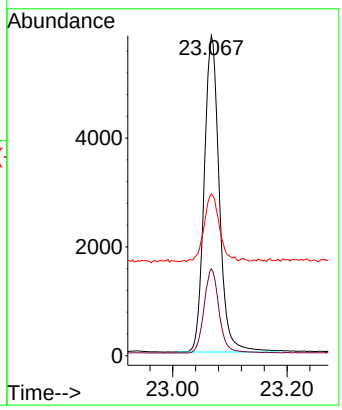


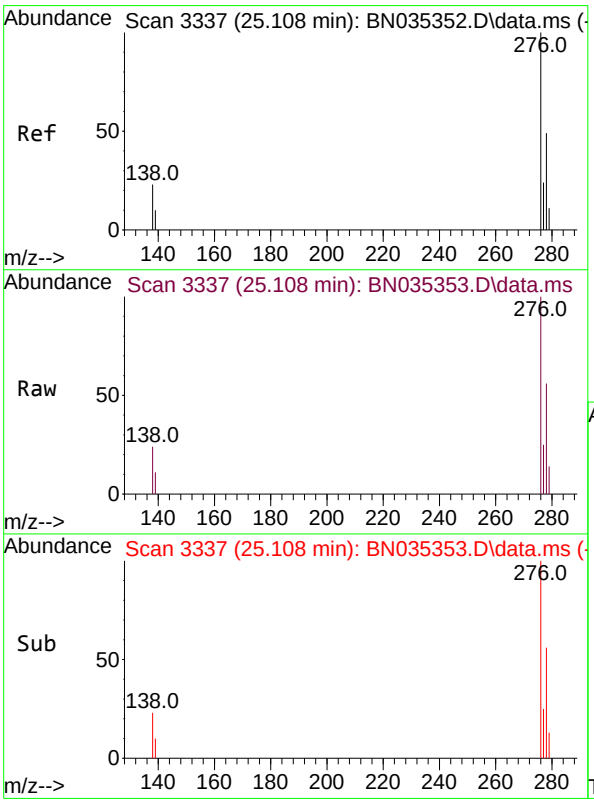
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 10698

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.6	40.2	60.4

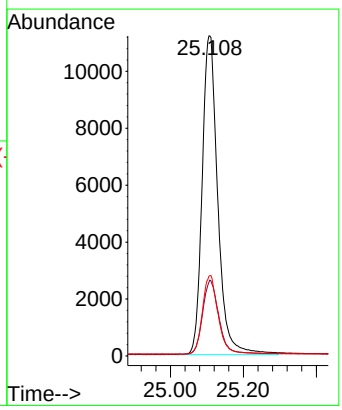


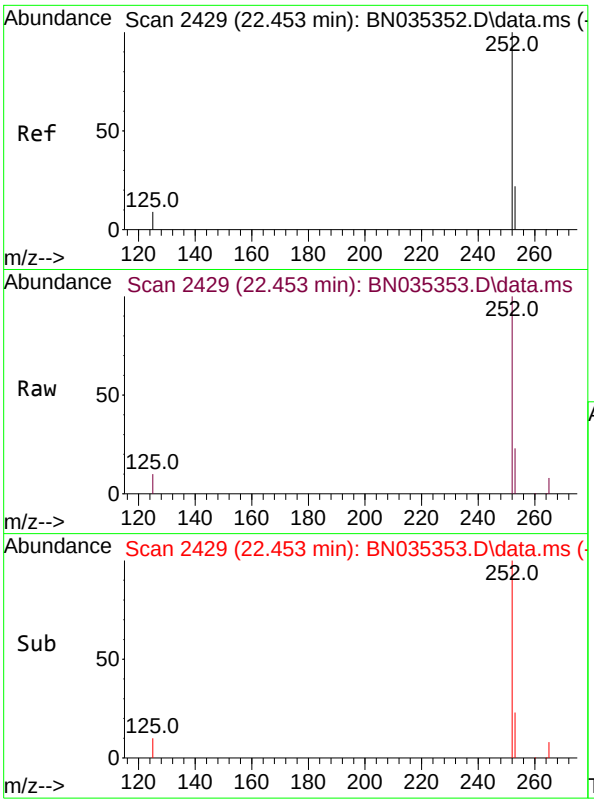


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:276 Resp: 33248

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.7	19.8	29.6



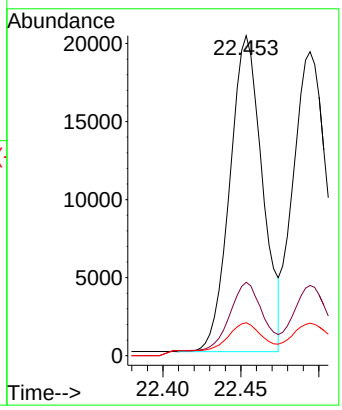


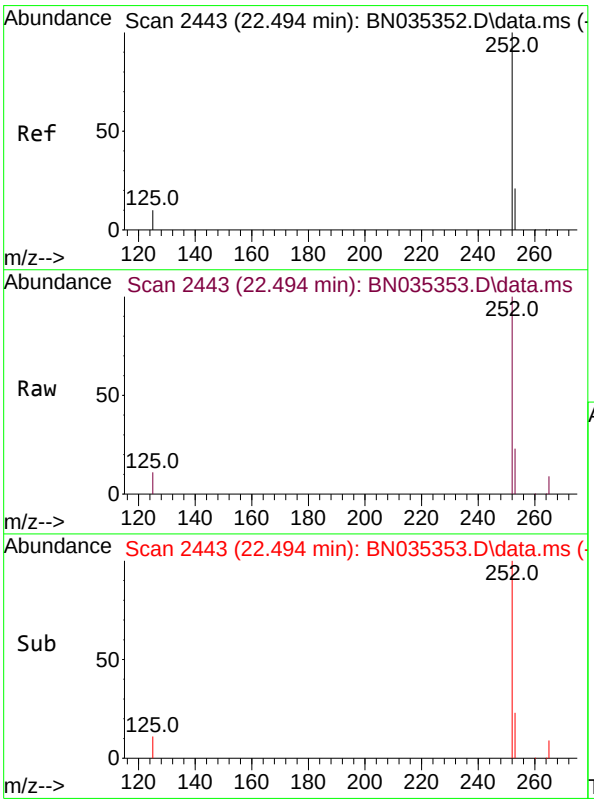
#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 29491

Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.6	29.4
125	10.3	9.6	14.4

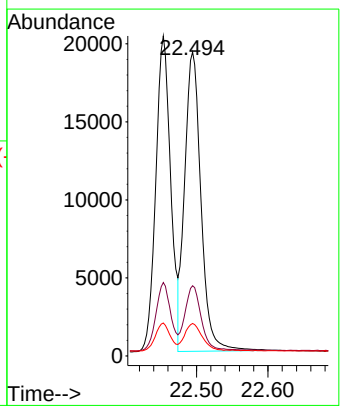


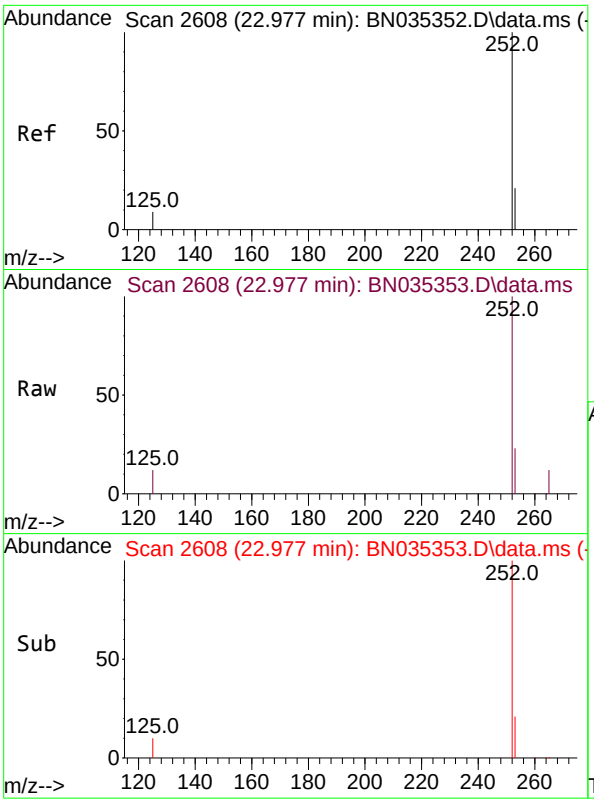


#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:252 Resp: 30369

Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.5	29.3
125	10.7	10.2	15.4



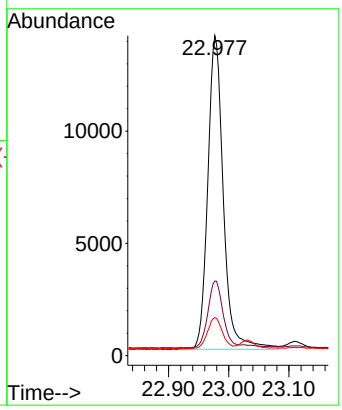


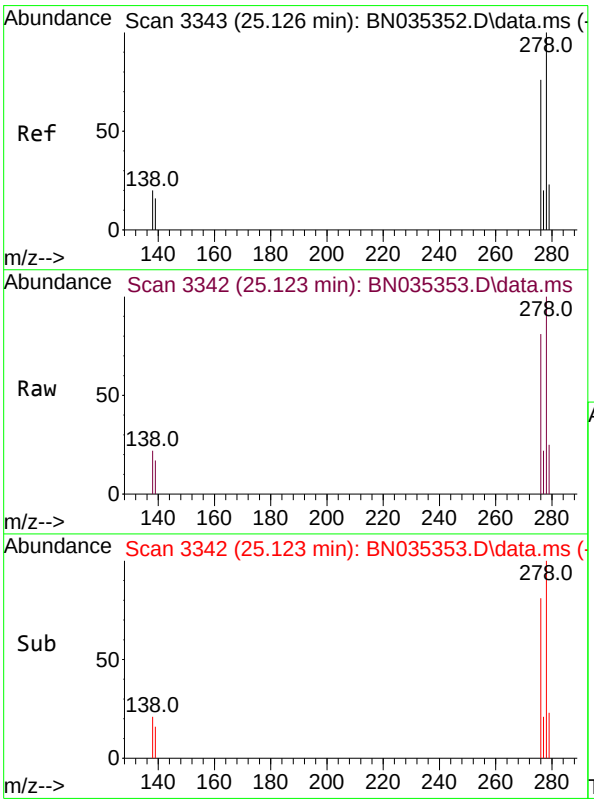
#39
Benzo(a)pyrene
Concen: 0.791 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 25053

Ion	Ratio	Lower	Upper
252	100		
253	23.3	20.2	30.4
125	11.9	10.9	16.3

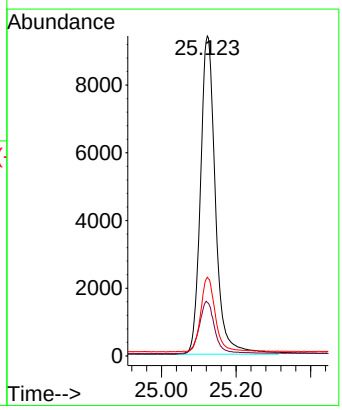


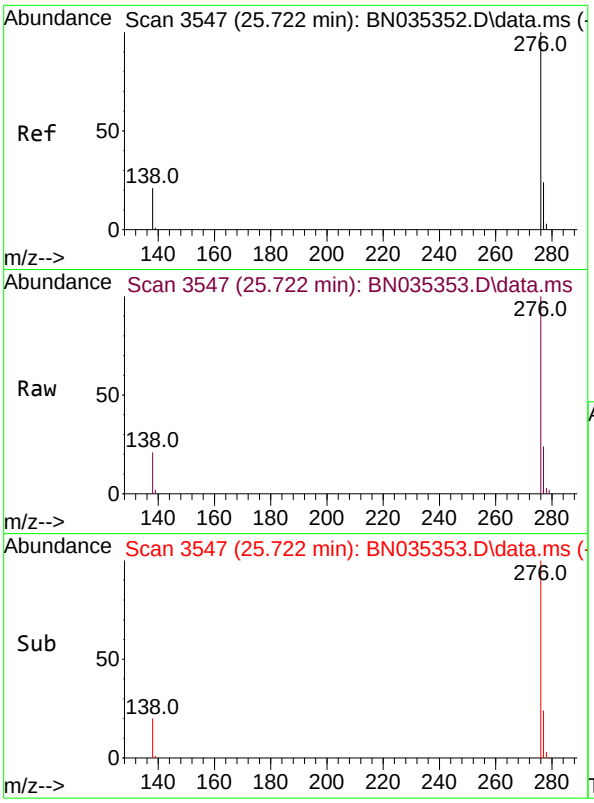


#40
Dibenzo(a,h)anthracene
Concen: 0.775 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:278 Resp: 26222

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.2	21.4
279	24.6	20.5	30.7



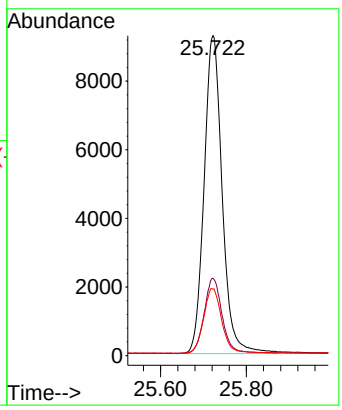


#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 27143

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	20.8	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng		0.00
35) Perylene-d12	23.067	264	10469	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	8194	1.572	ng		0.00
5) Phenol-d6	6.513	99	10139	1.552	ng		0.00
8) Nitrobenzene-d5	8.440	82	5450	1.179	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	13988	1.478	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	4615	1.623	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	24687	1.542	ng		0.00
27) Fluoranthene-d10	18.785	212	44338	1.521	ng		0.00
31) Terphenyl-d14	19.412	244	32174	1.548	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	3220	1.727	ng		99
3) n-Nitrosodimethylamine	3.292	42	2729	1.570	ng	#	97
6) bis(2-Chloroethyl)ether	6.759	93	8629	1.759	ng		100
9) Naphthalene	10.105	128	23280	1.680	ng		98
10) Hexachlorobutadiene	10.404	225	5409	1.331	ng	#	100
12) 2-Methylnaphthalene	11.732	142	16881	1.651	ng		98
16) Acenaphthylene	13.679	152	27389	1.626	ng		99
17) Acenaphthene	14.032	154	18061	1.636	ng		99
18) Fluorene	15.026	166	26044	1.604	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	1947	0.983	ng	#	69
21) 4-Bromophenyl-phenylether	15.941	248	9493	1.566	ng		96
22) Hexachlorobenzene	16.041	284	10969	1.743	ng		100
23) Atrazine	16.227	200	6644	1.221	ng		96
24) Pentachlorophenol	16.388	266	4618	1.571	ng	#	85
25) Phenanthrene	16.773	178	43698	1.745	ng		100
26) Anthracene	16.860	178	39964	1.737	ng		99
28) Fluoranthene	18.813	202	58605	1.702	ng		100
30) Pyrene	19.180	202	60164	1.824	ng		100
32) Benzo(a)anthracene	20.956	228	57498	1.667	ng		100
33) Chrysene	21.010	228	58919	1.725	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	20598	1.138	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	69517	1.665	ng		99
37) Benzo(b)fluoranthene	22.454	252	76506	2.172	ng		95
38) Benzo(k)fluoranthene	22.494	252	63925	1.814	ng	#	95
39) Benzo(a)pyrene	22.977	252	52595	1.697	ng	#	94
40) Dibenzo(a,h)anthracene	25.126	278	55068	1.664	ng		96
41) Benzo(g,h,i)perylene	25.719	276	56947	1.618	ng		97

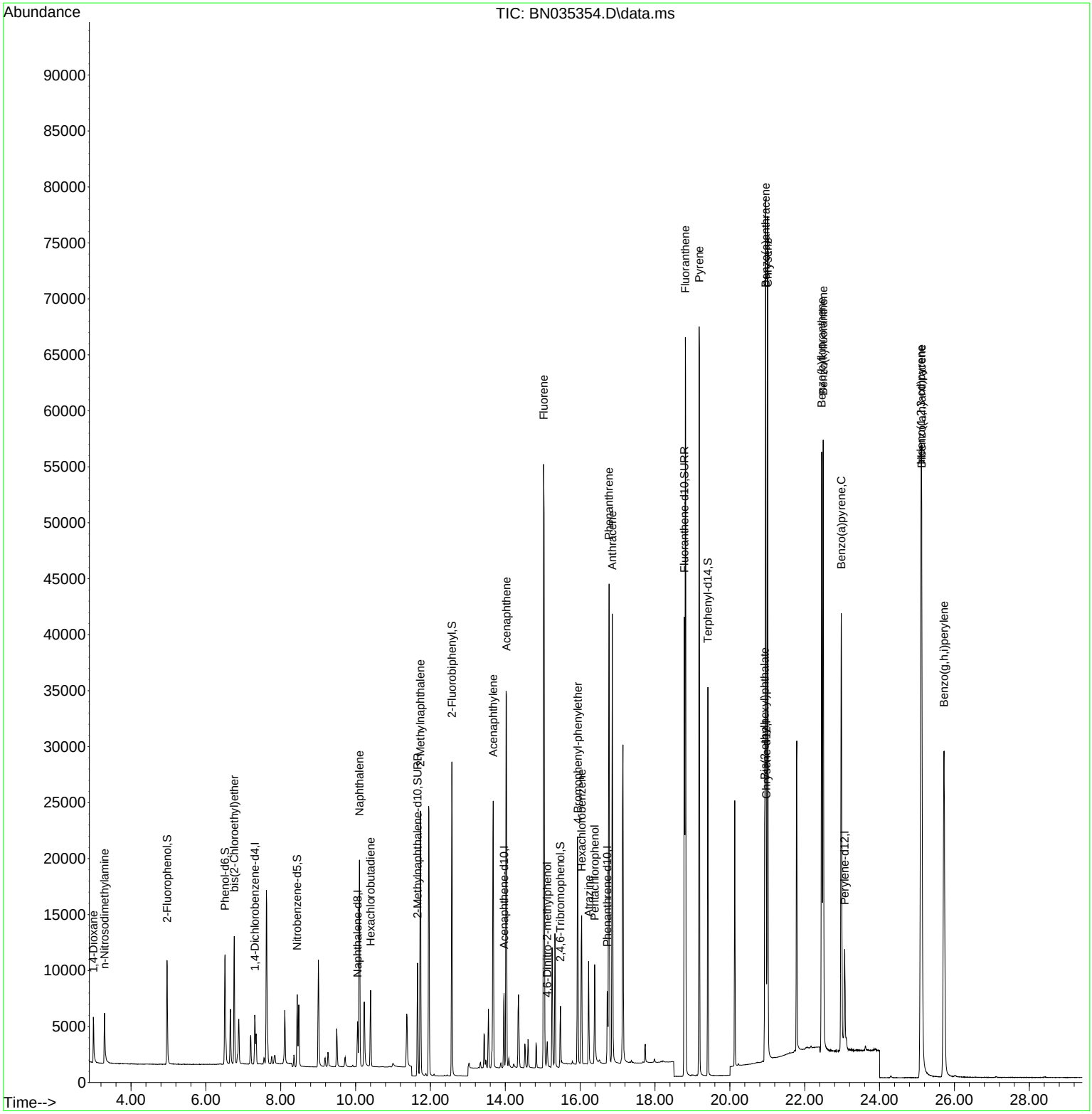
(#) = qualifier out of range (m) = manual integration (+) = signals summed

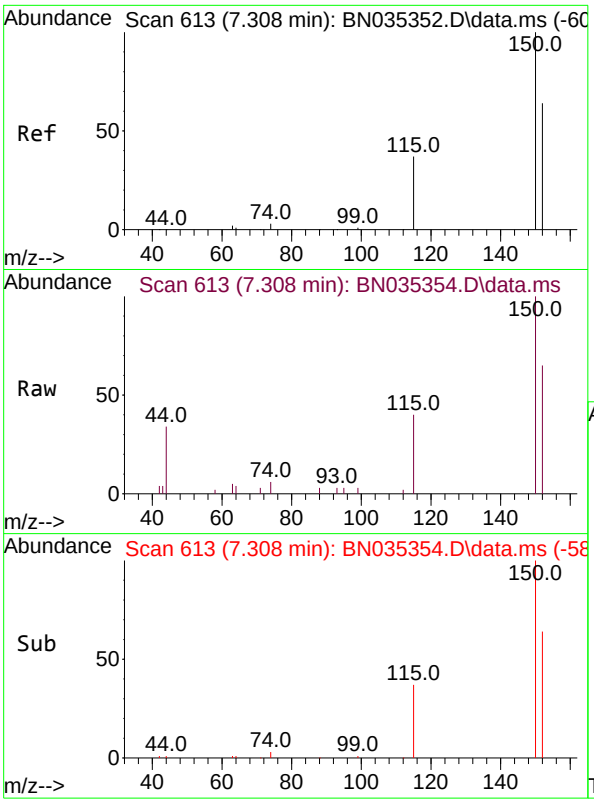
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



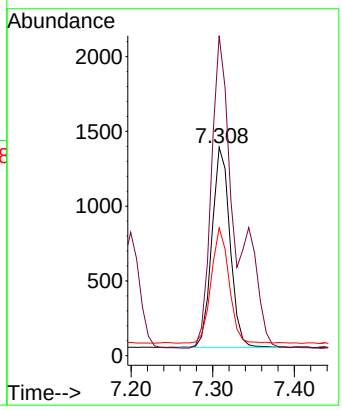


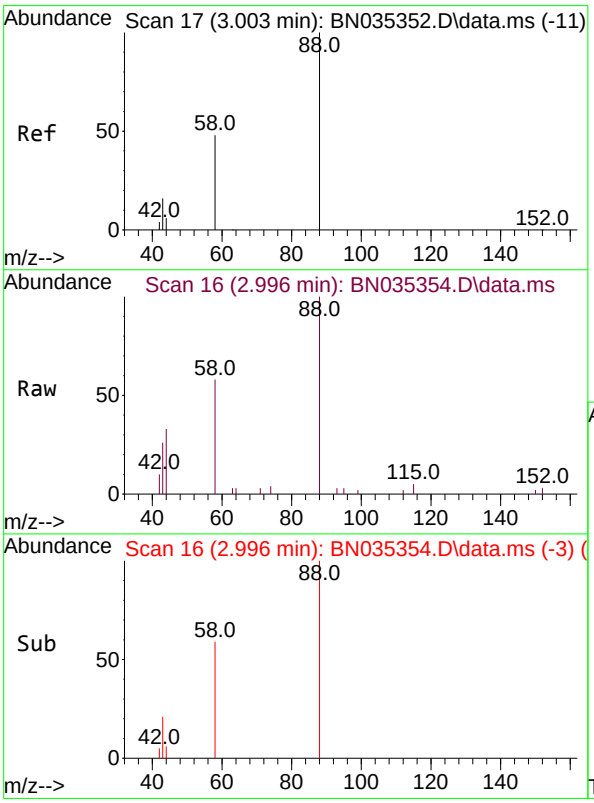
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2053

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	61.4	49.6	74.4

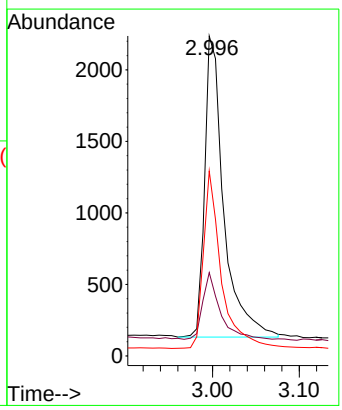


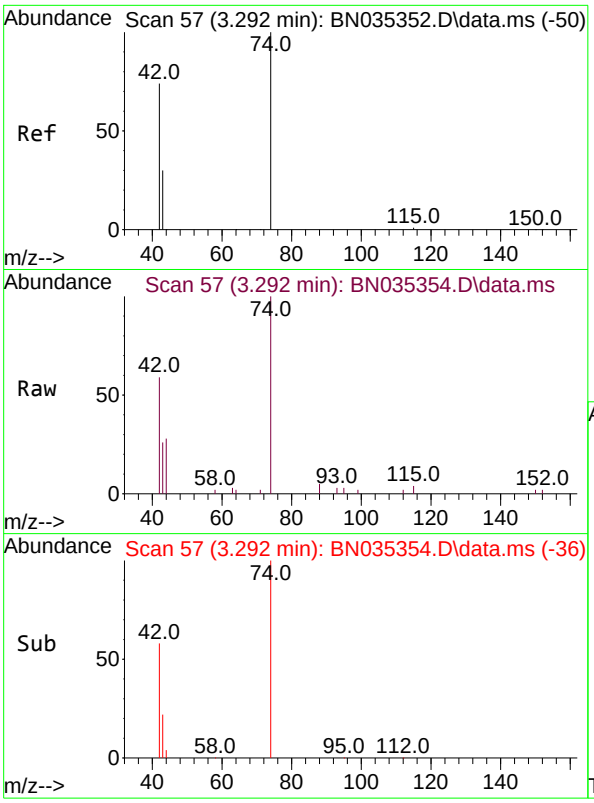


#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

Ion	Ratio	Lower	Upper
88	100		
43	20.3	17.2	25.8
58	55.1	44.5	66.7



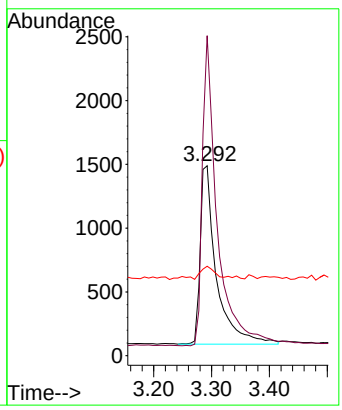


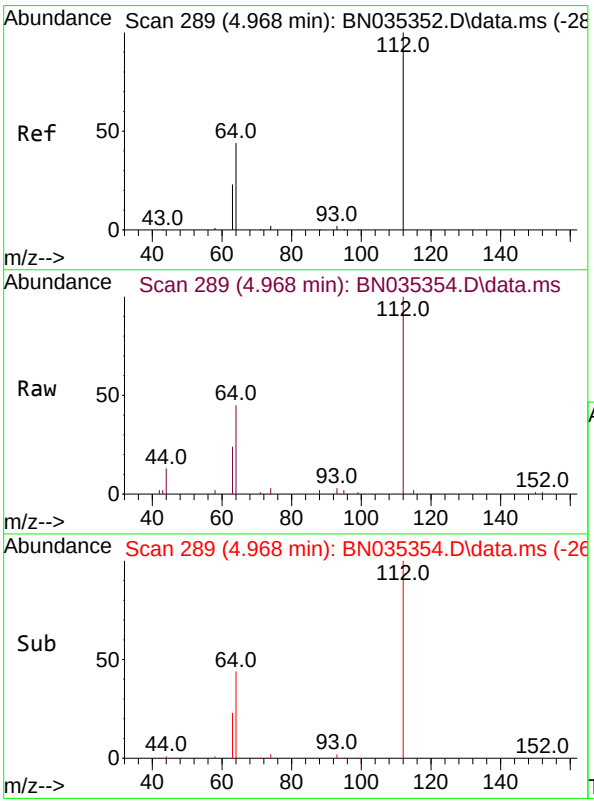
#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2729

Ion	Ratio	Lower	Upper
42	100		
74	160.4	124.9	187.3
44	6.2	2.2	3.4#

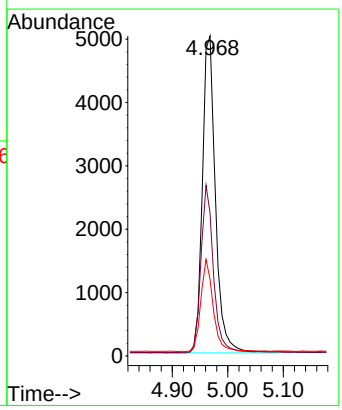


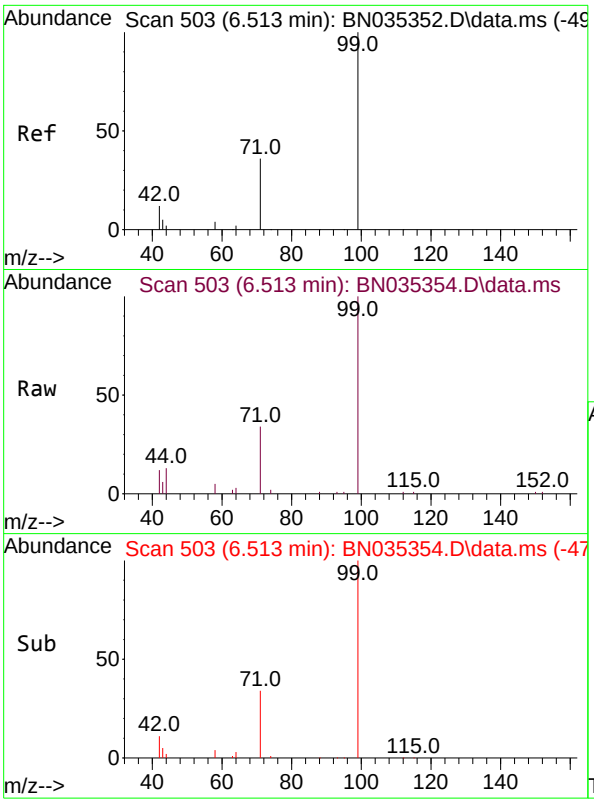


#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:112 Resp: 8194

Ion	Ratio	Lower	Upper
112	100		
64	50.7	39.8	59.8
63	27.5	21.0	31.6



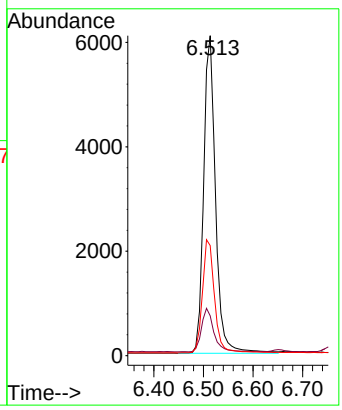


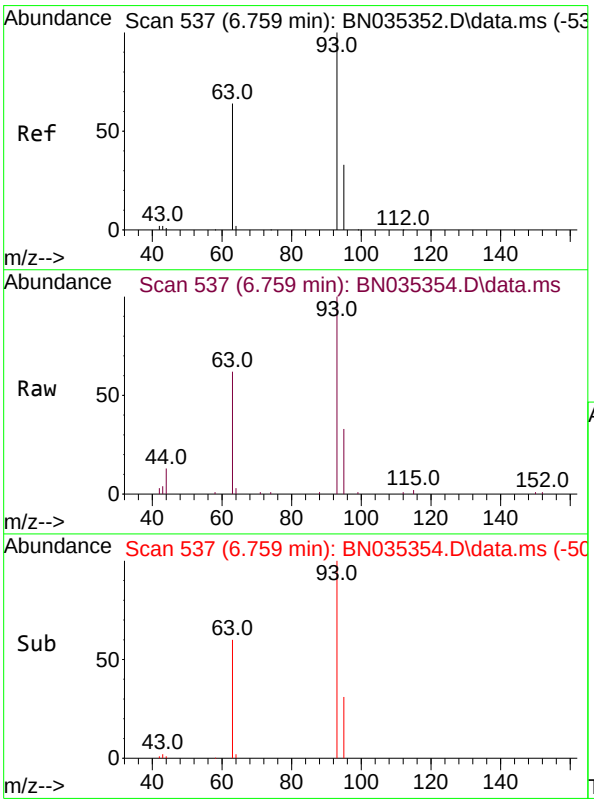
#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 10139

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9

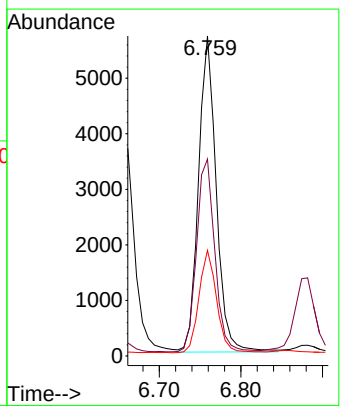


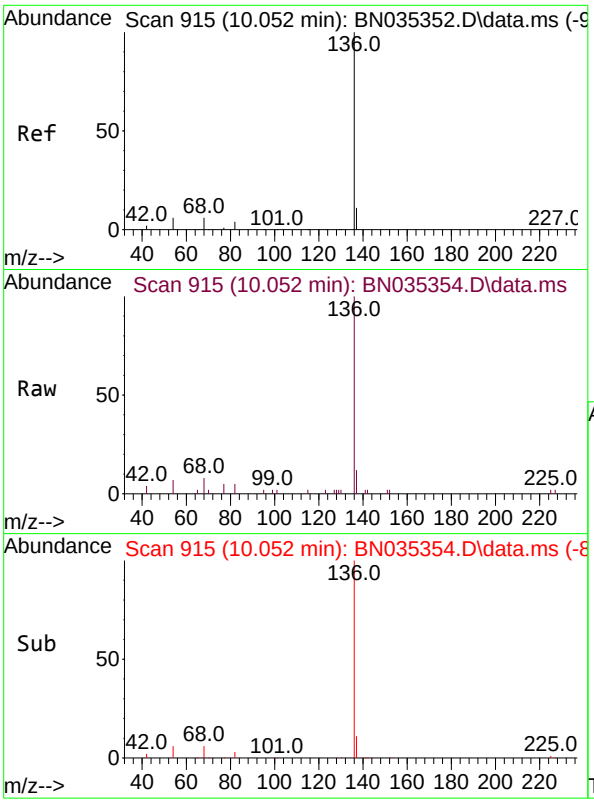


#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 93 Resp: 8629

Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5



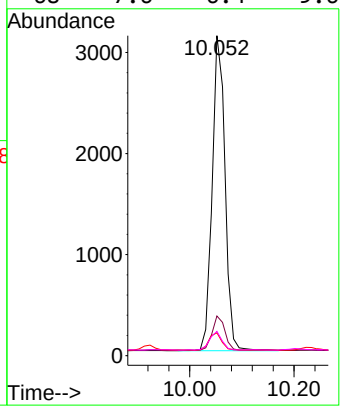


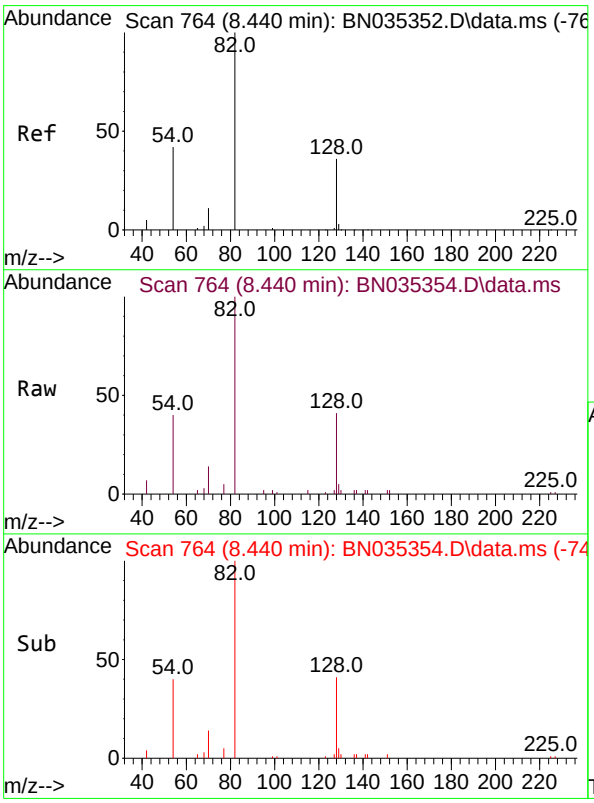
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5309

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6

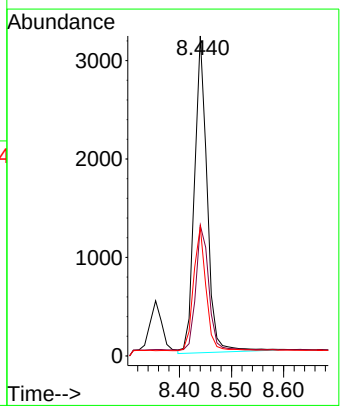


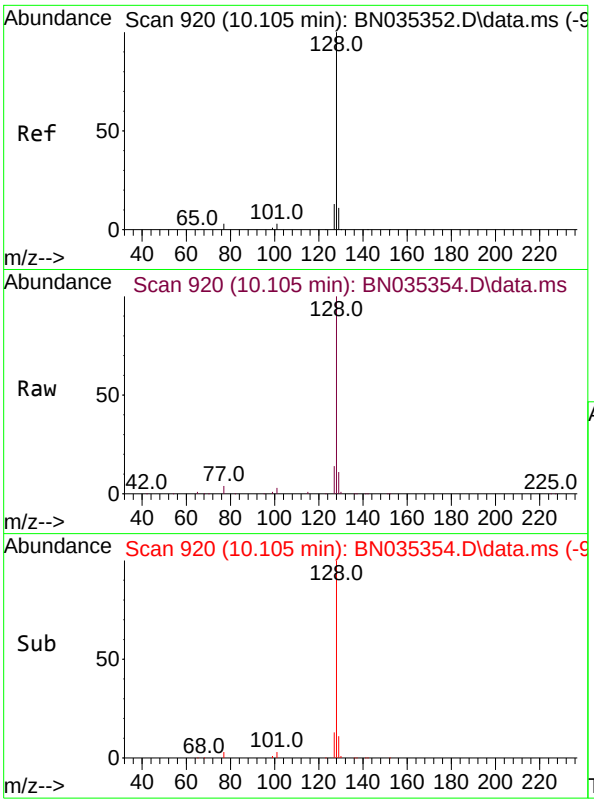


#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

Ion	Ratio	Lower	Upper
82	100		
128	40.8	33.4	50.0
54	40.3	36.7	55.1



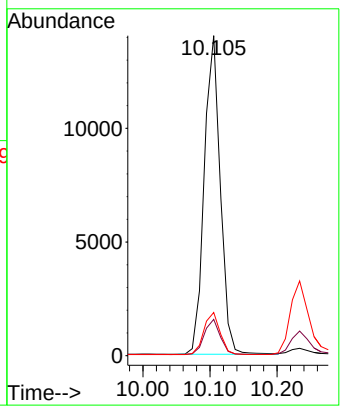


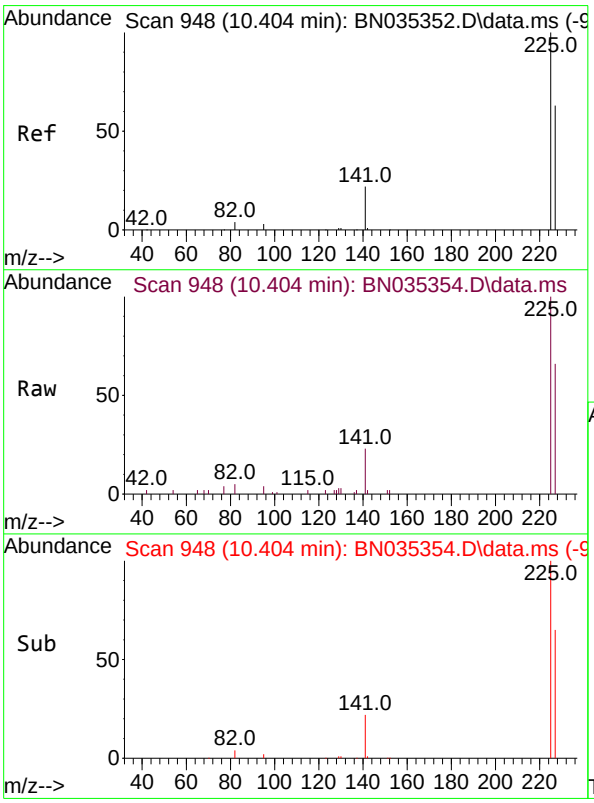
#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 23280

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.5	11.4	17.2

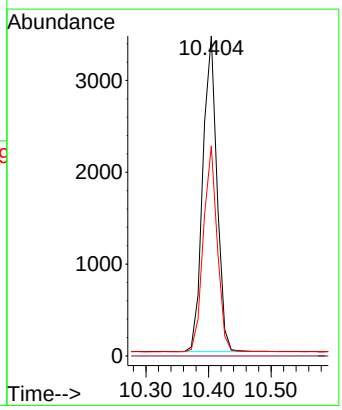


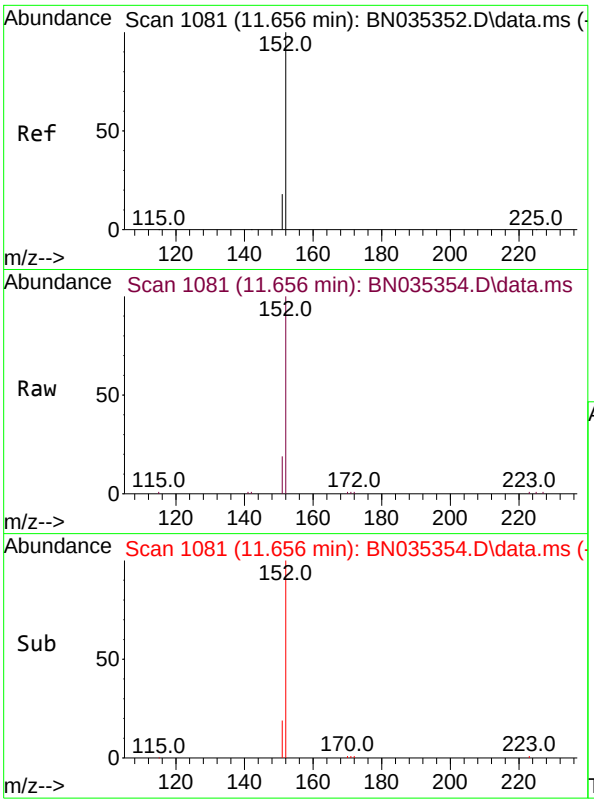


#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.3	76.9



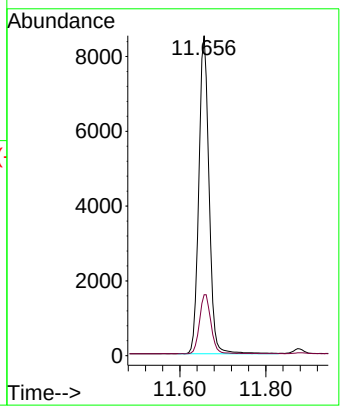


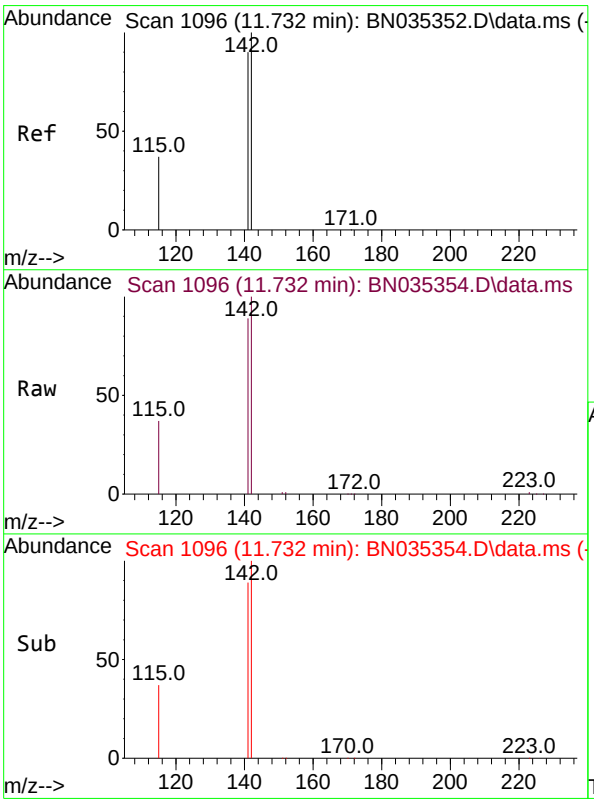
#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13988

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

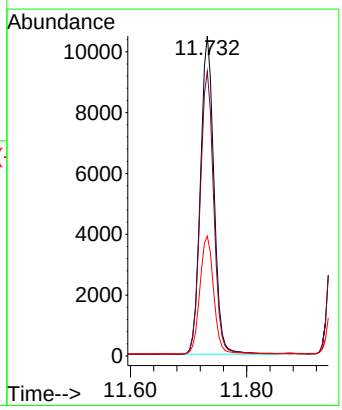


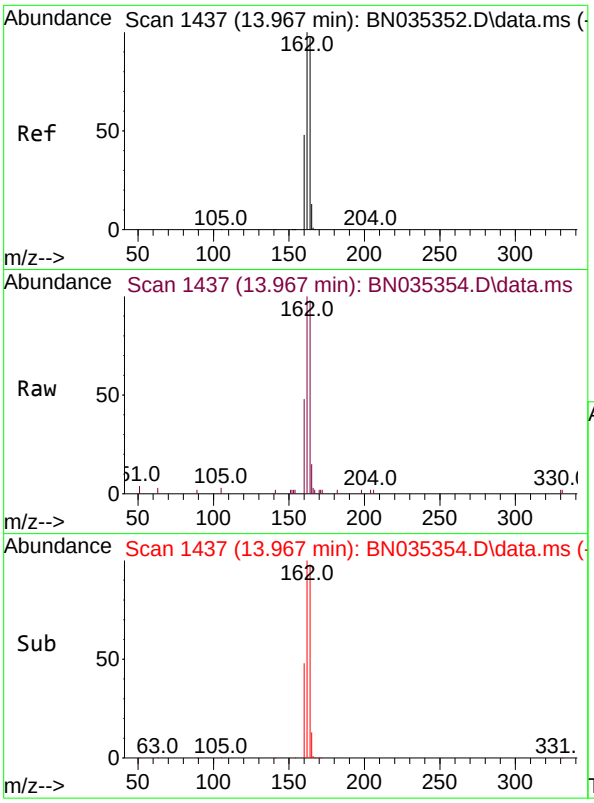


#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	37.5	31.4	47.0



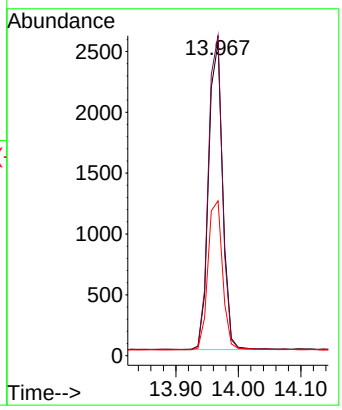


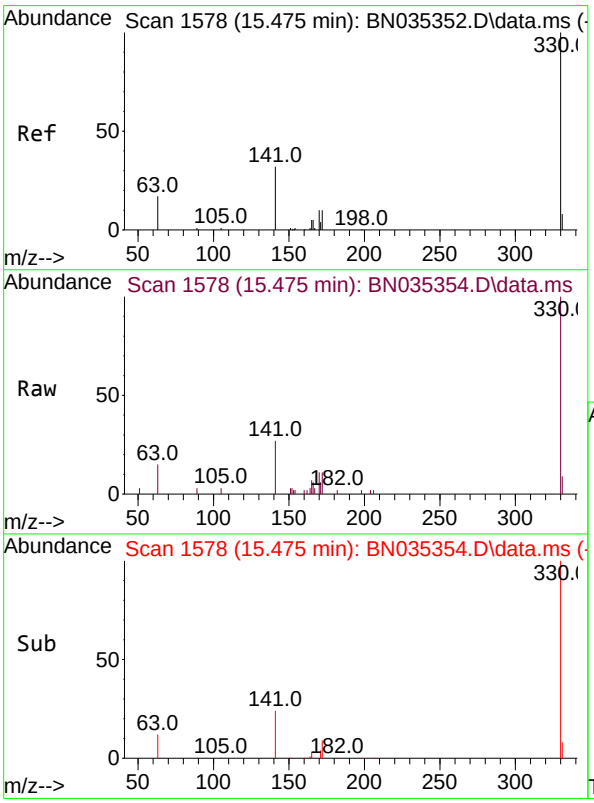
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3942

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.5	40.1	60.1

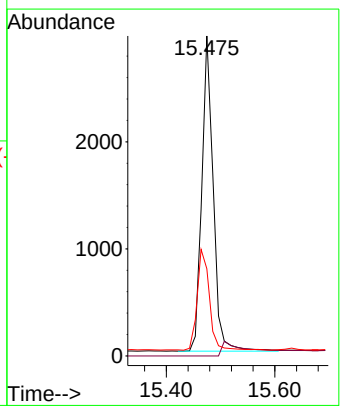


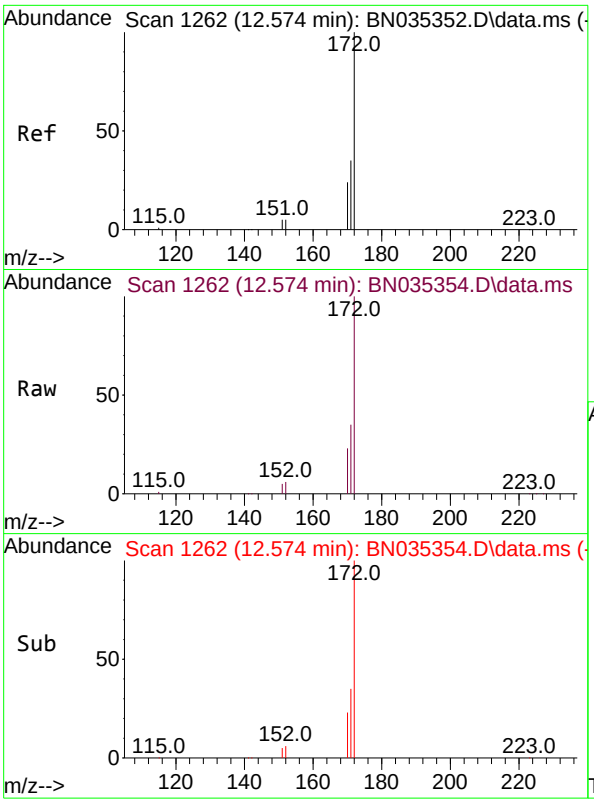


#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.6	26.6	40.0



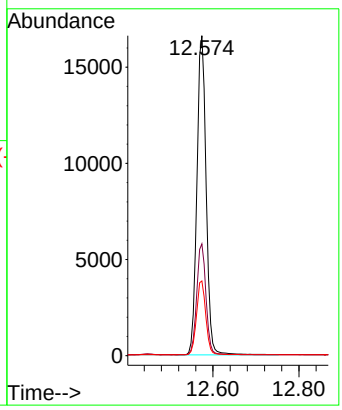


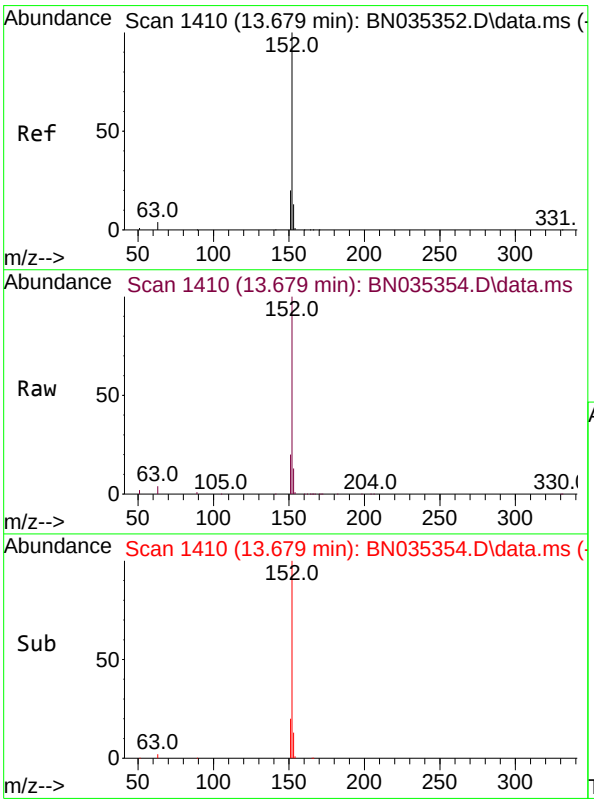
#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 24687

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8

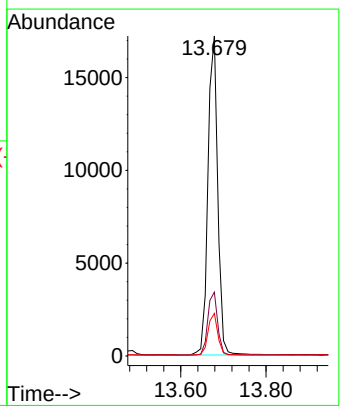


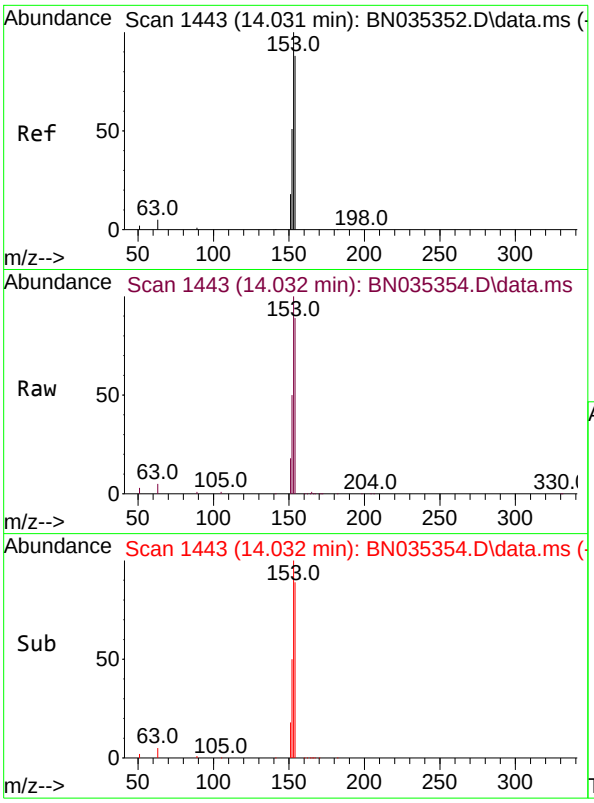


#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 27389

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



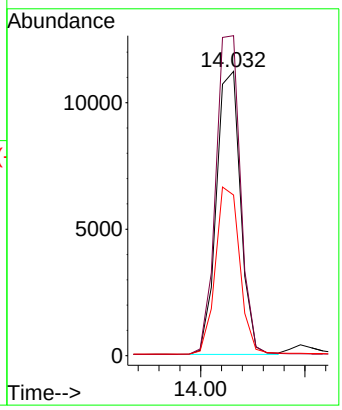


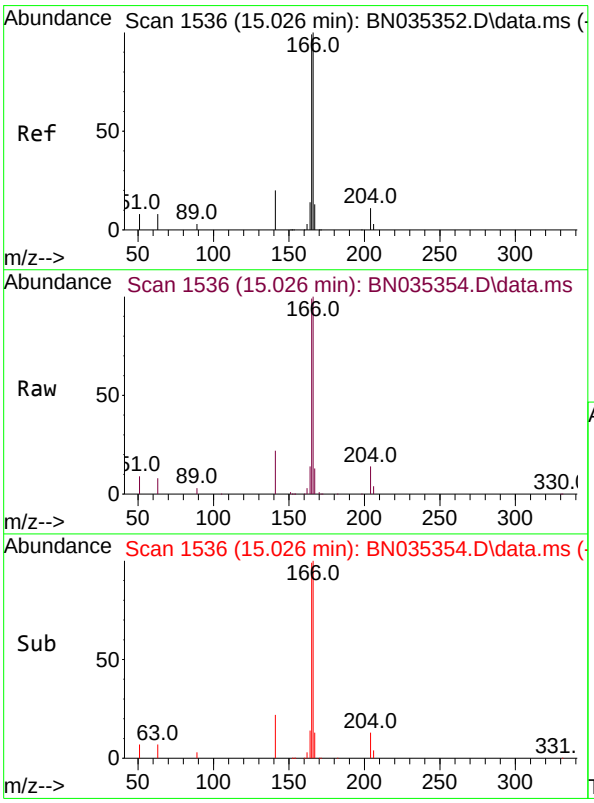
#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18061

Ion	Ratio	Lower	Upper
154	100		
153	115.1	92.6	139.0
152	59.9	49.0	73.6

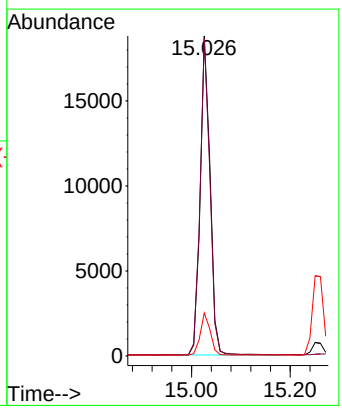


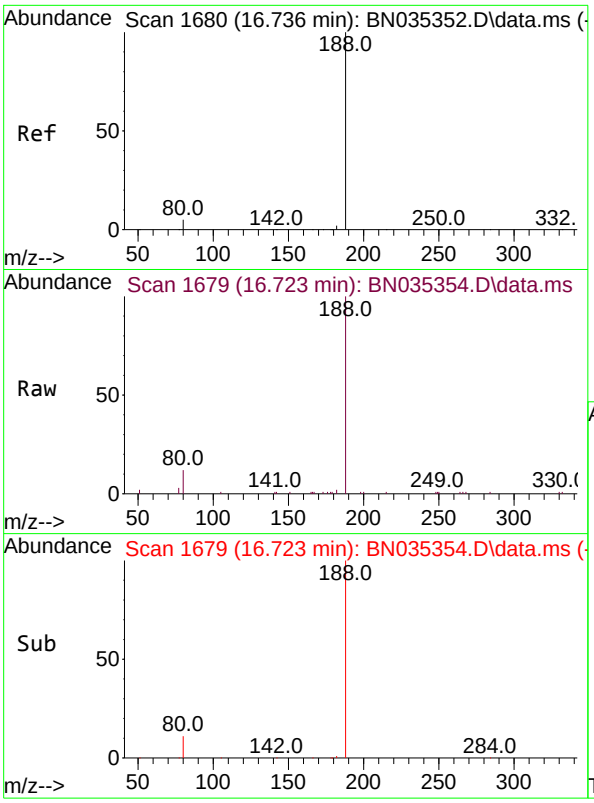


#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.3	10.8	16.2



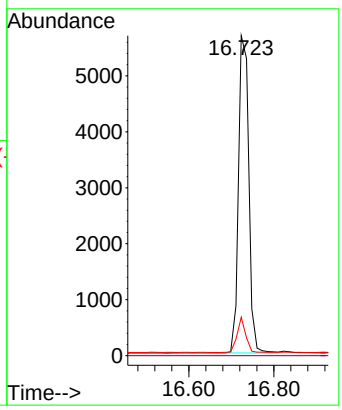


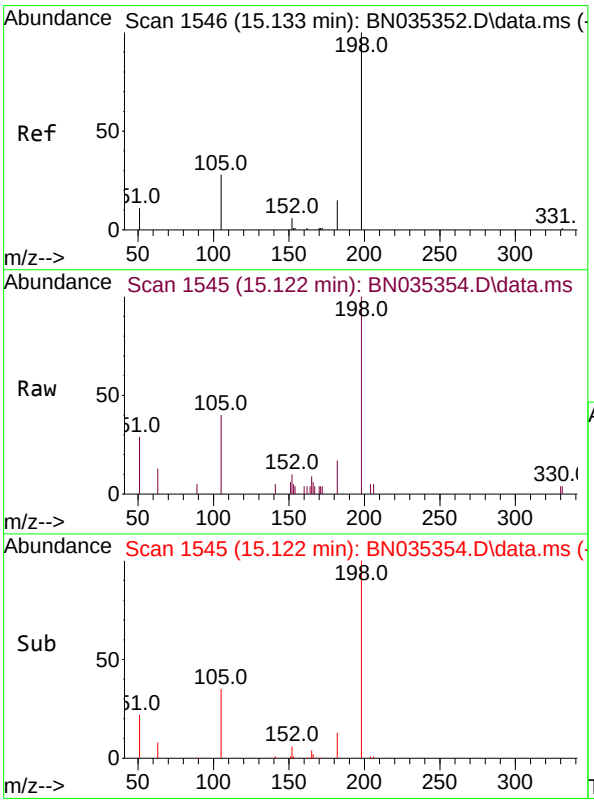
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 9517

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	4.6	6.8#

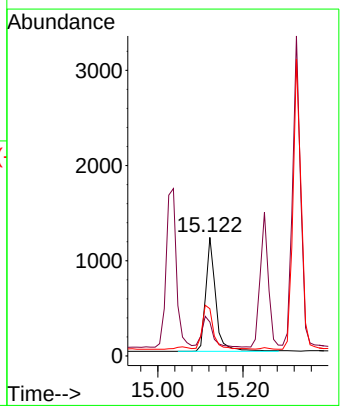


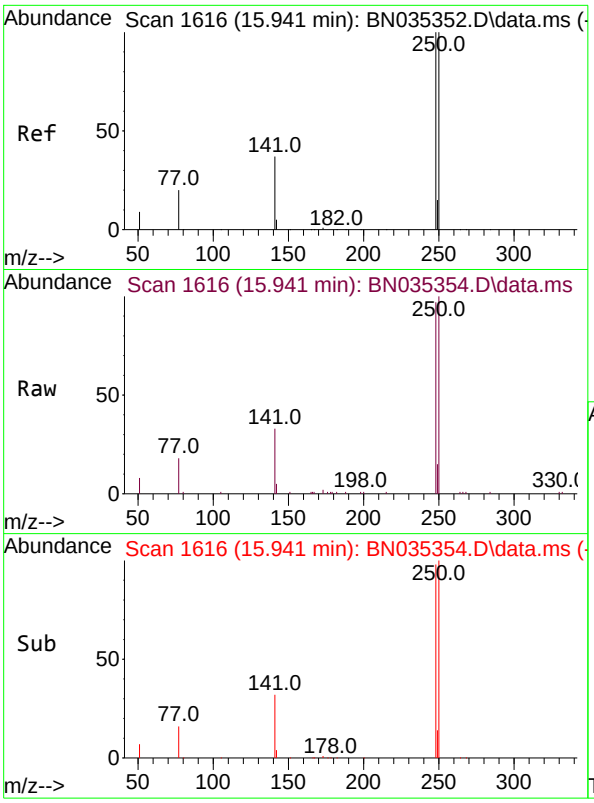


#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:198 Resp: 1947

Ion	Ratio	Lower	Upper
198	100		
51	28.6	46.5	69.7#
105	39.8	45.3	67.9#



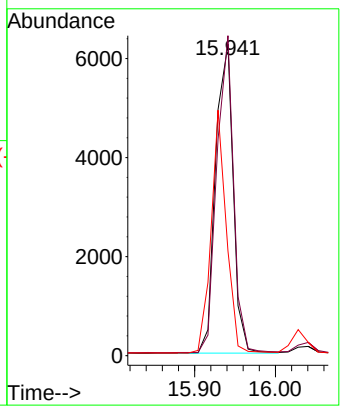


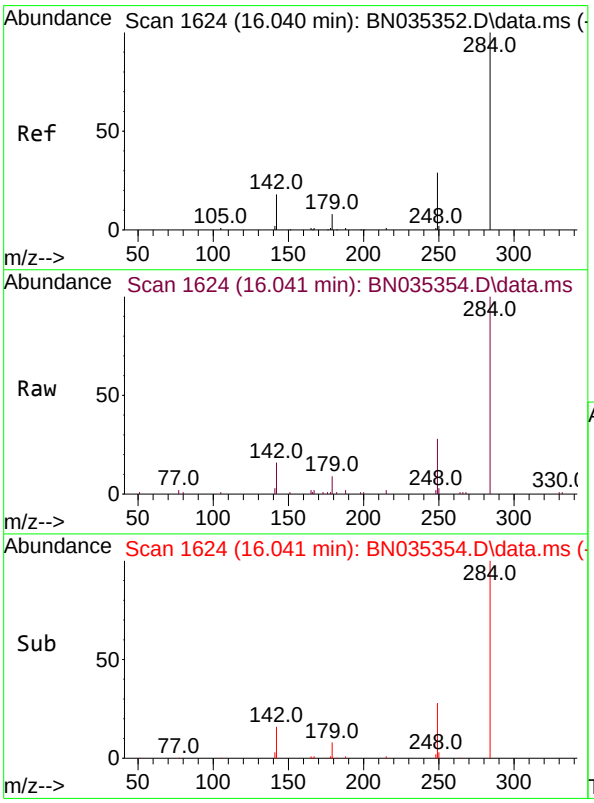
#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 9493

Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3

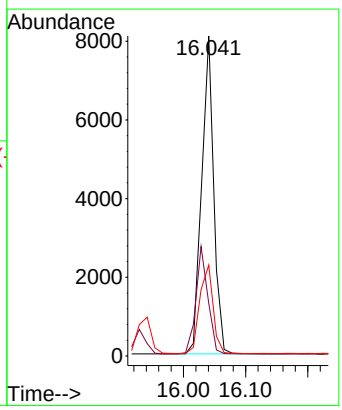


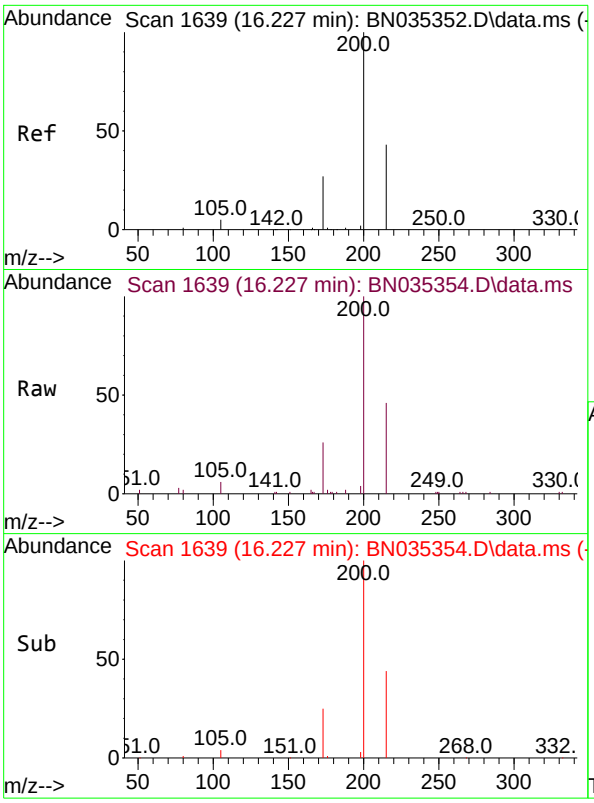


#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:284 Resp: 10969

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.6	24.6	36.8



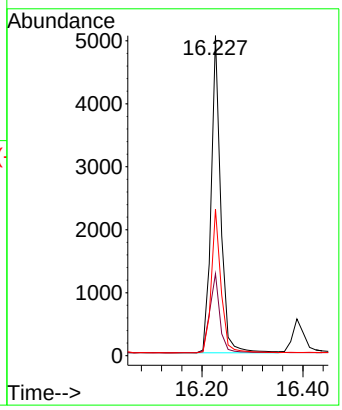


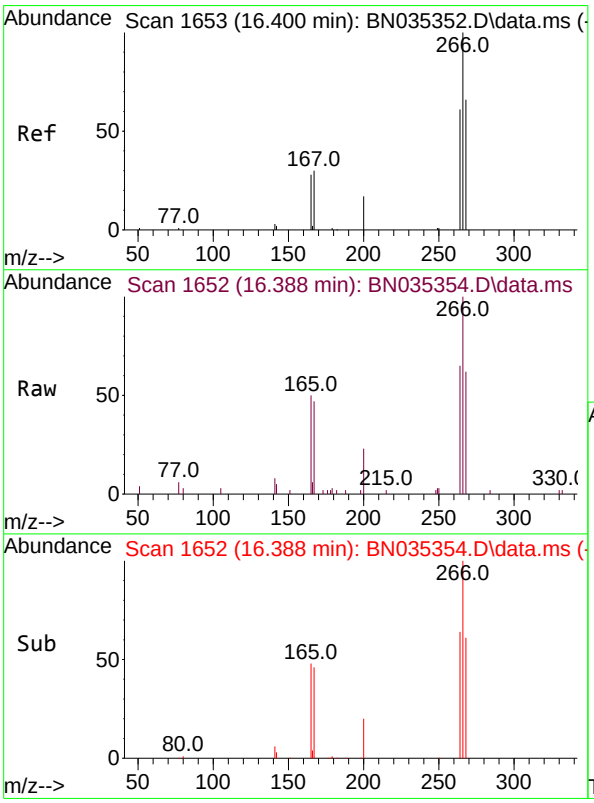
#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6644

Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3

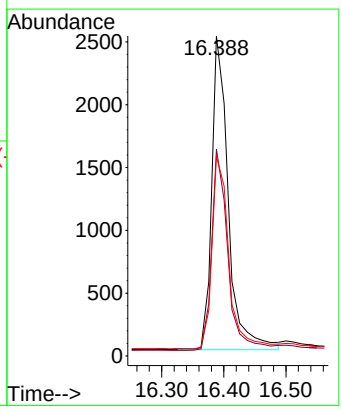


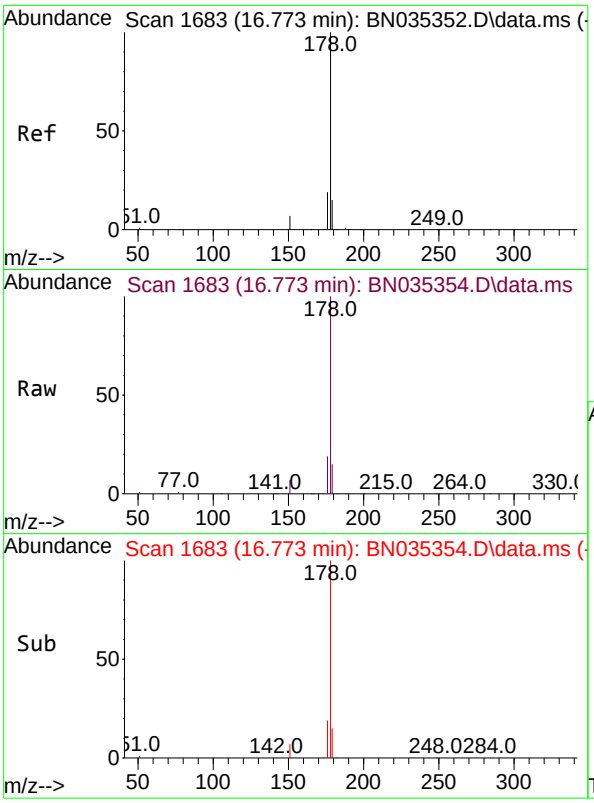


#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:266 Resp: 4618

Ion	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9



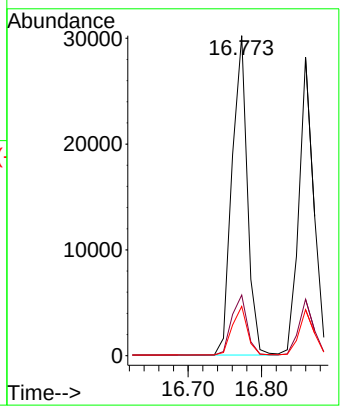


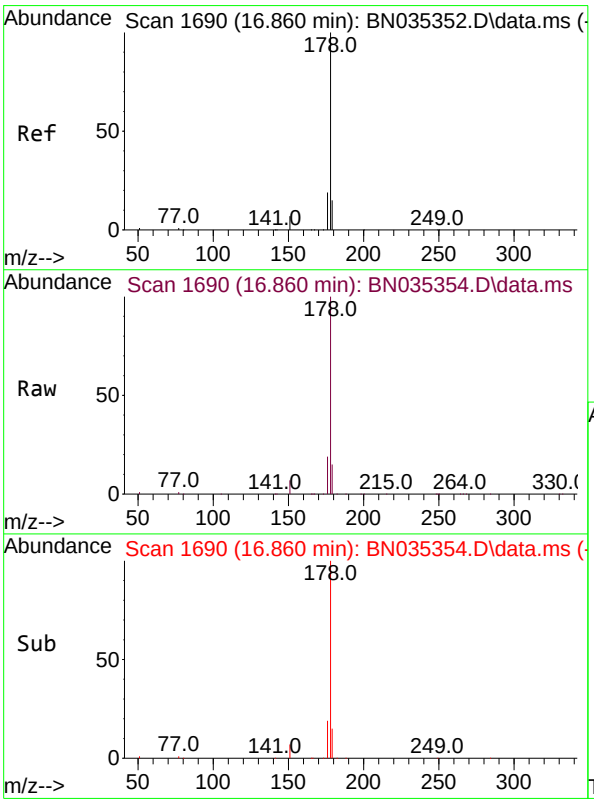
#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 43698

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.3	18.5

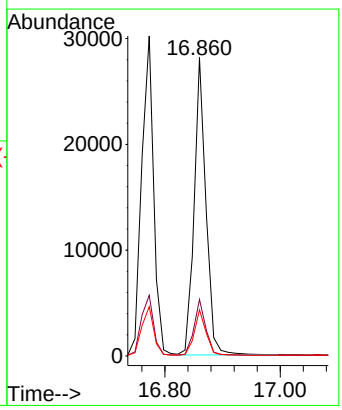


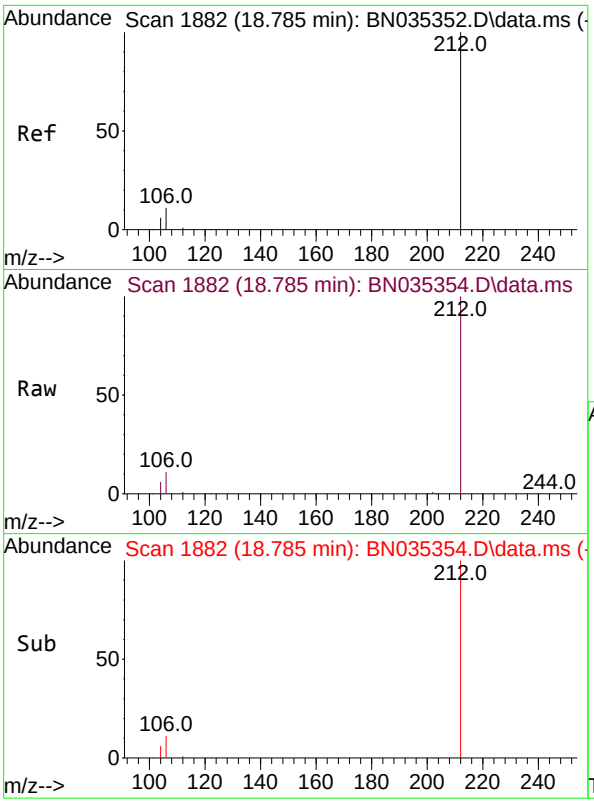


#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.6	18.8



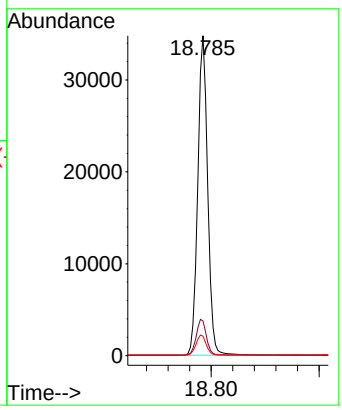


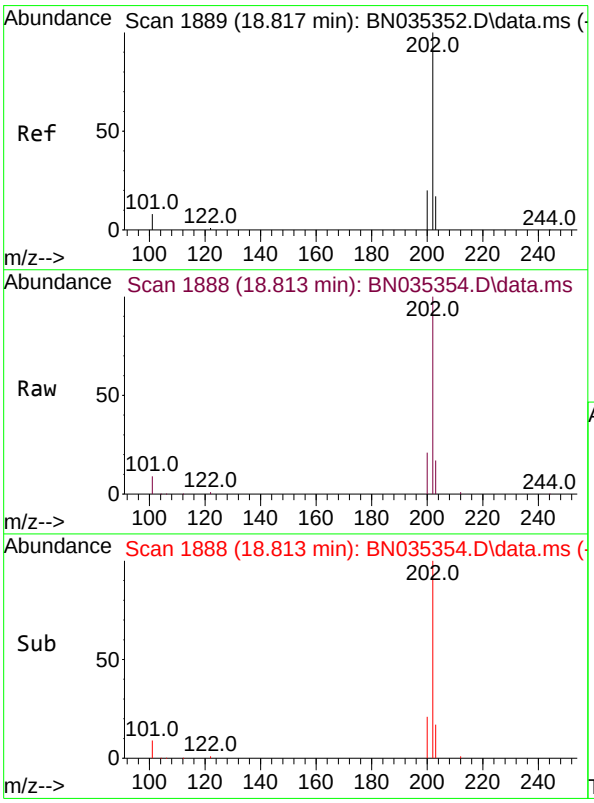
#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 44338

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9

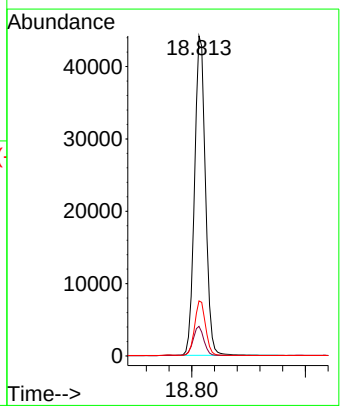


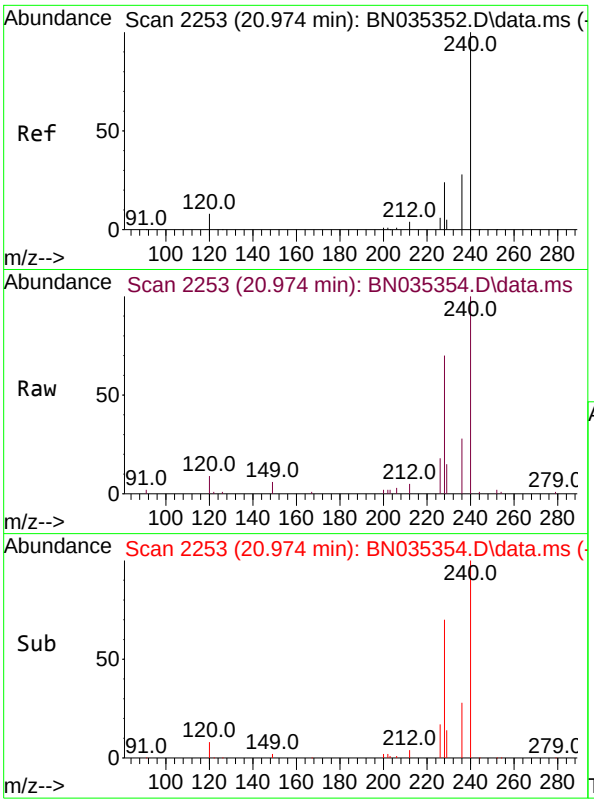


#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



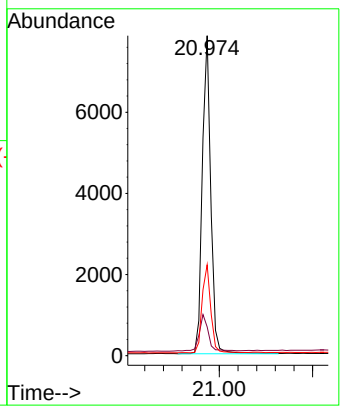


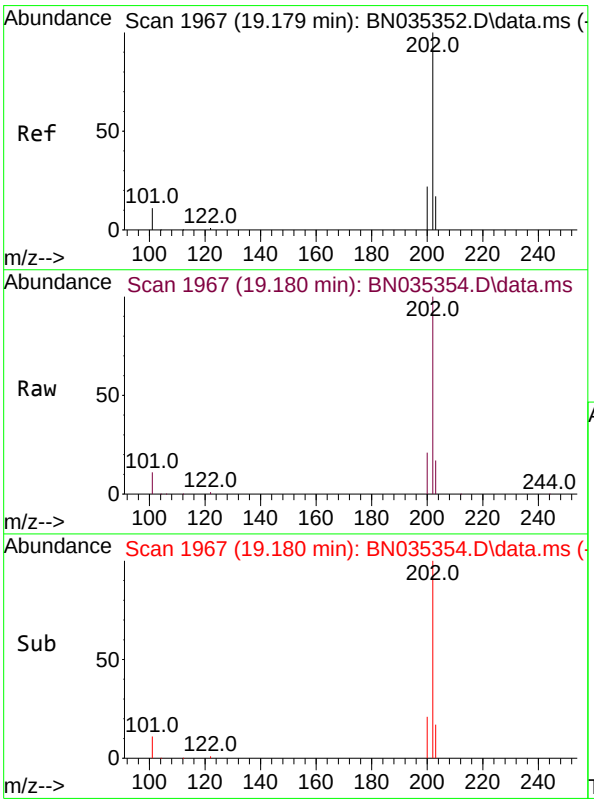
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 9905

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.9	11.9
236	28.4	22.9	34.3

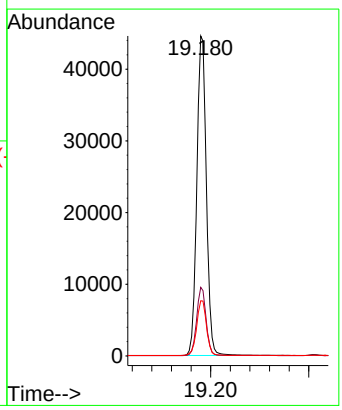


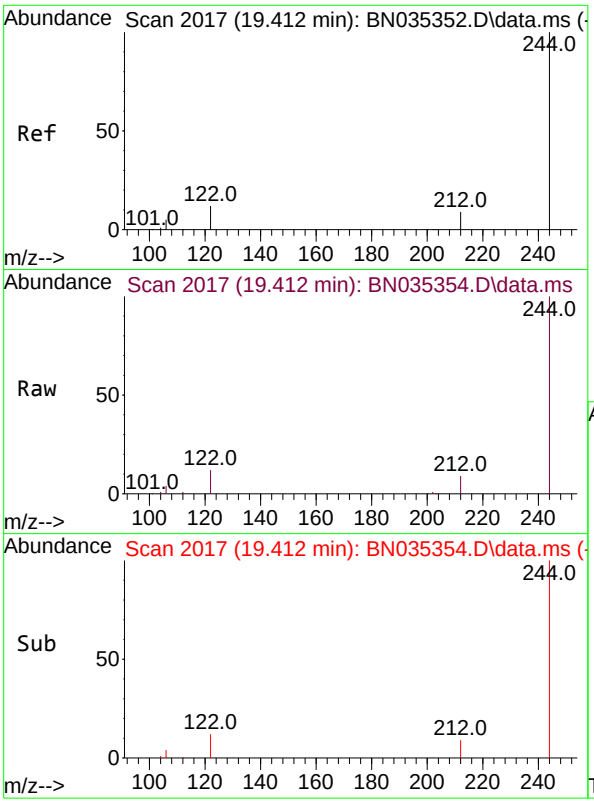


#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 60164

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



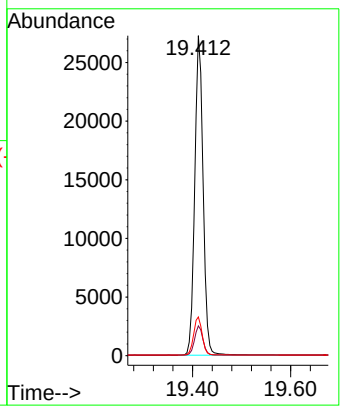


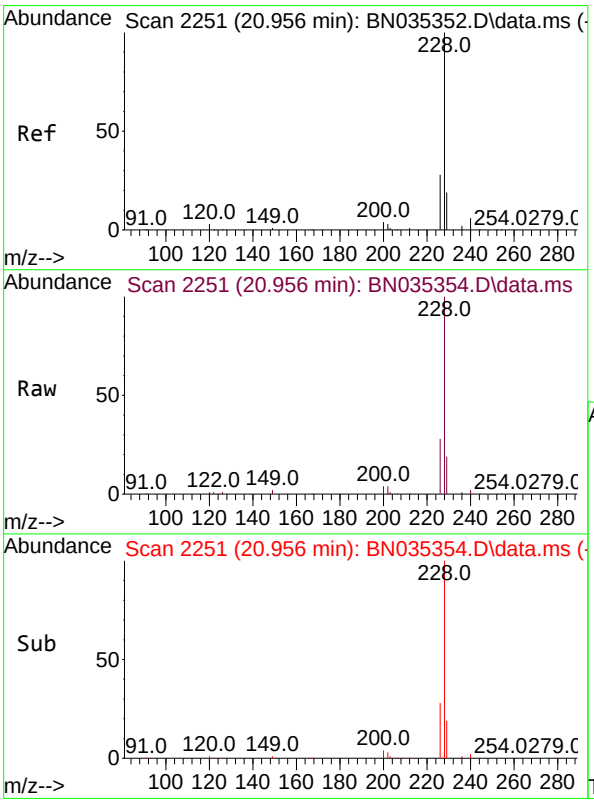
#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 32174

Ion	Ratio	Lower	Upper
244	100		
212	9.3	8.1	12.1
122	12.1	10.3	15.5

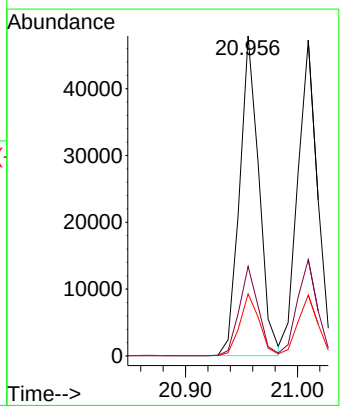


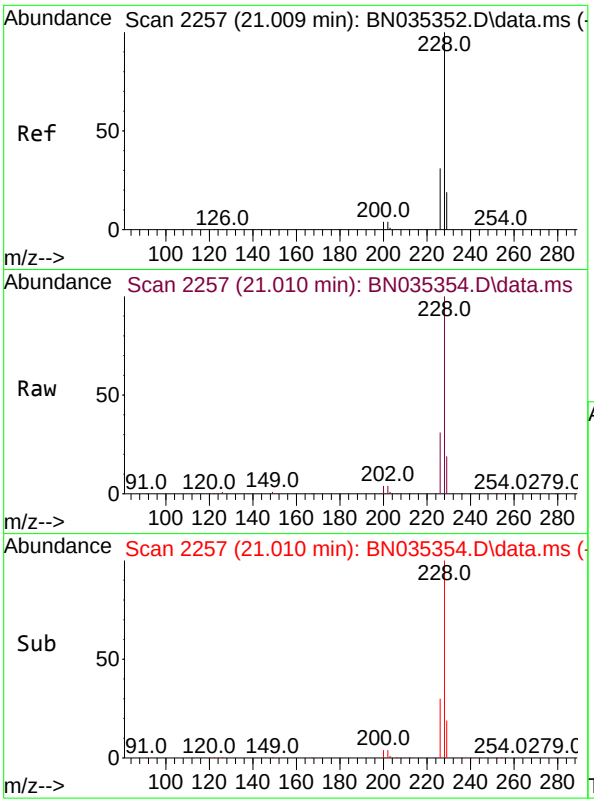


#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	15.8	23.8



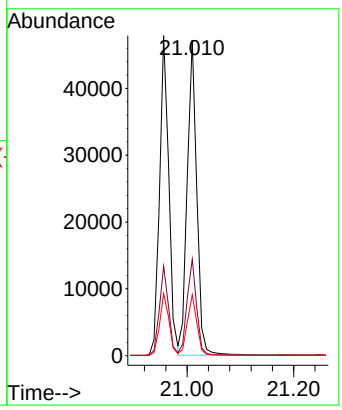


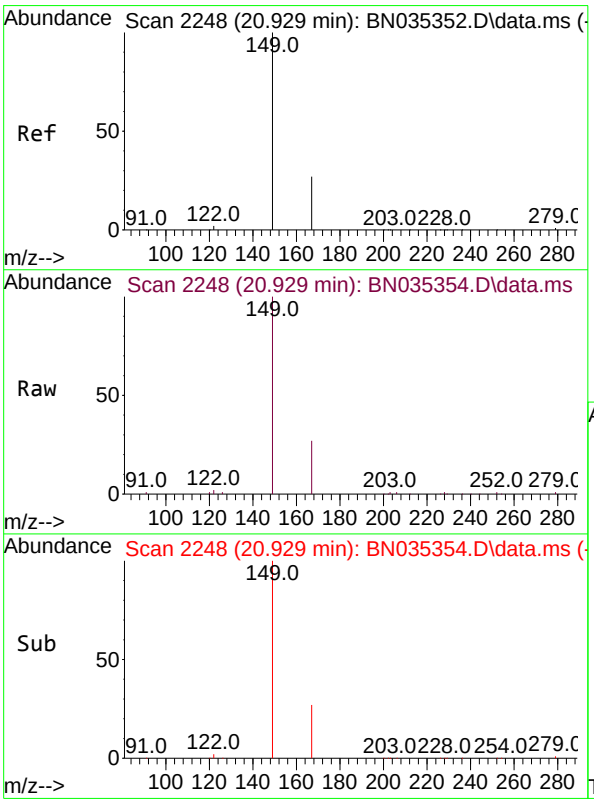
#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 58919

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.3	15.9	23.9

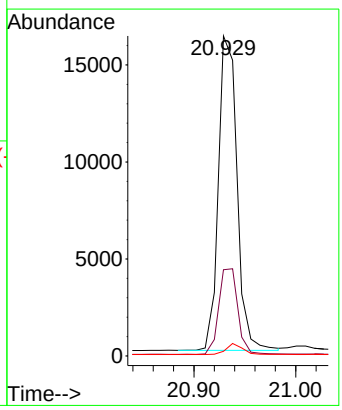


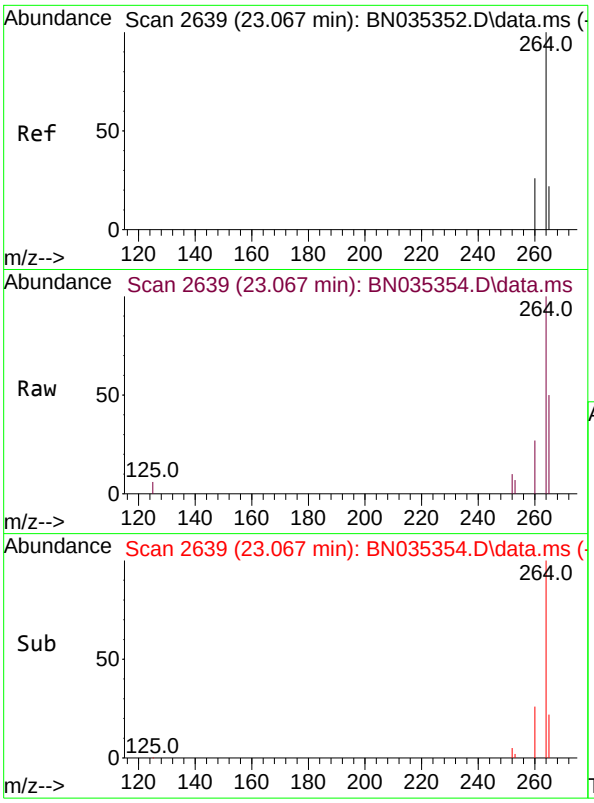


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.138 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:149 Resp: 20598

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.2	2.7	4.1



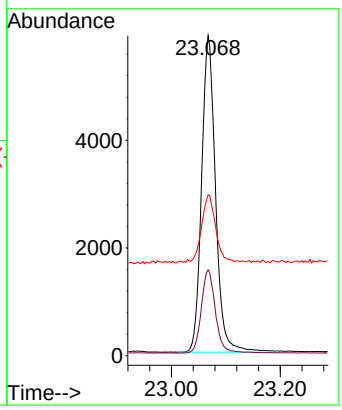


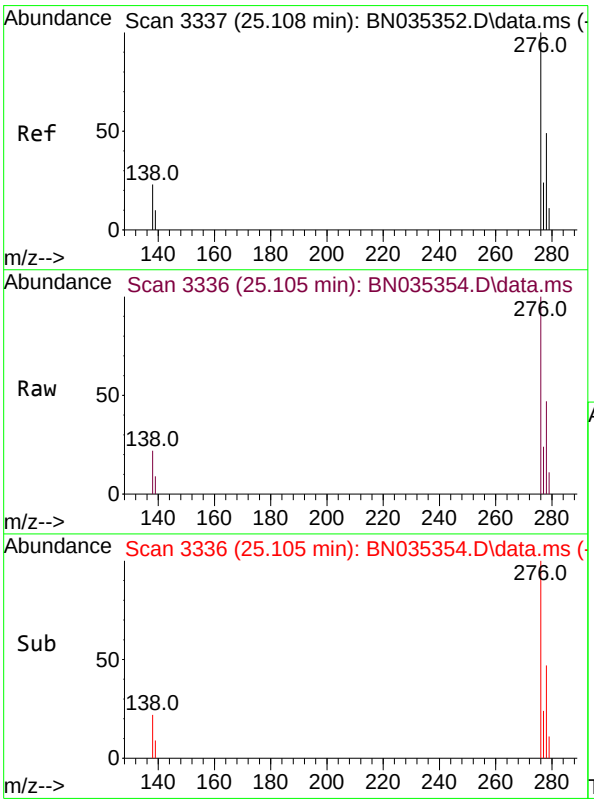
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 10469

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

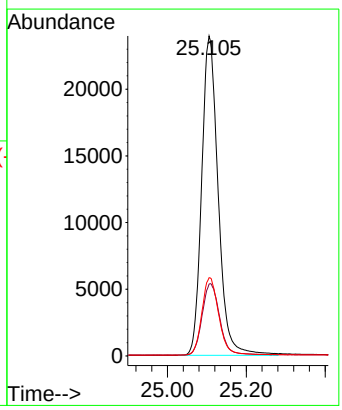


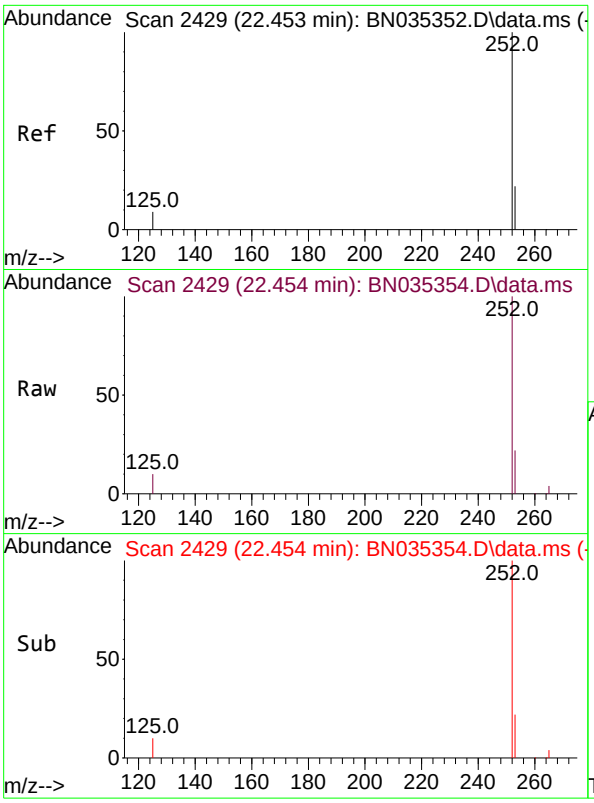


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.665 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:276 Resp: 69517

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.8	19.8	29.6



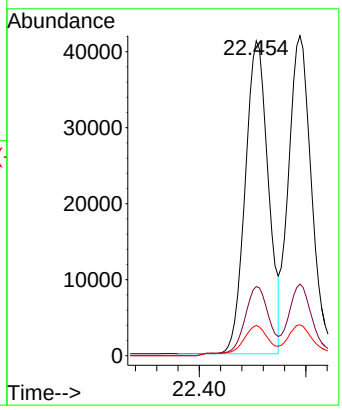


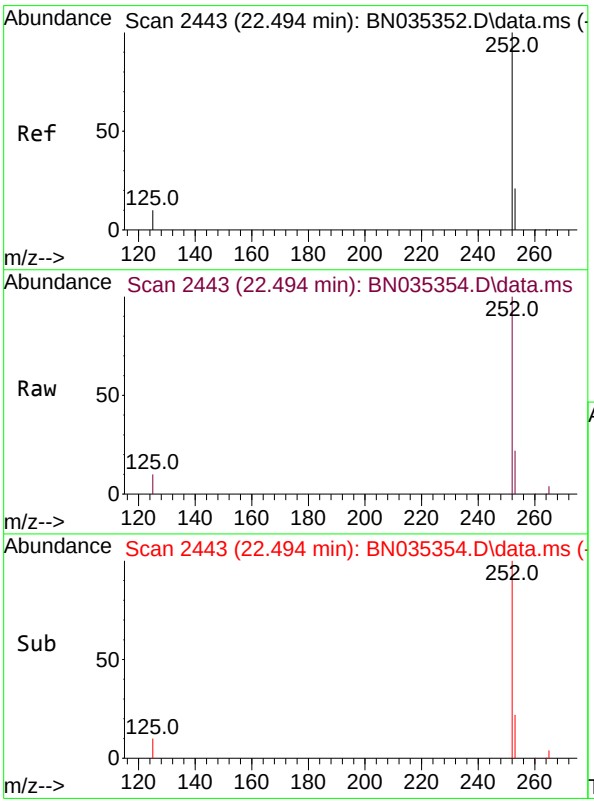
#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 76506

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.6	9.6	14.4

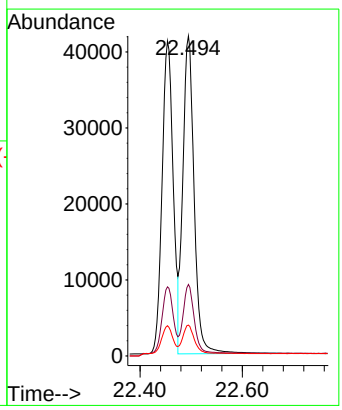


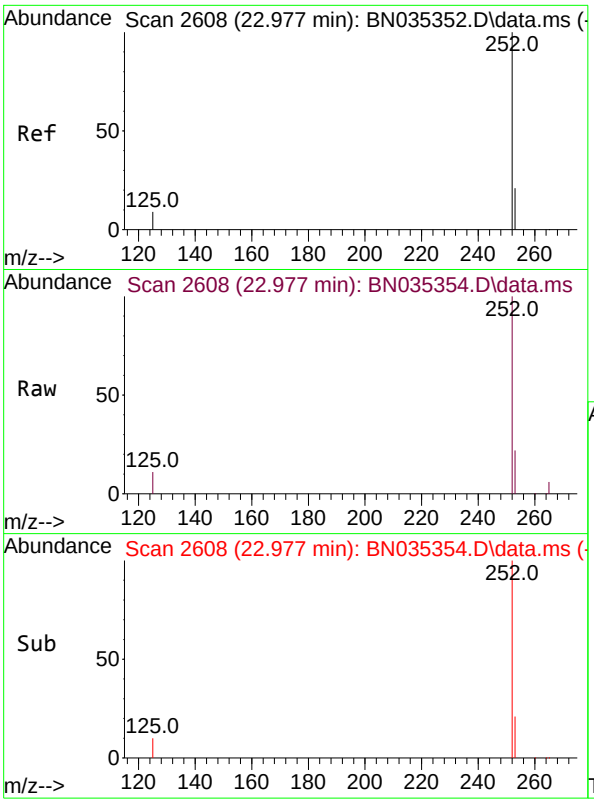


#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:252 Resp: 63925

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.5	29.3
125	9.7	10.2	15.4#



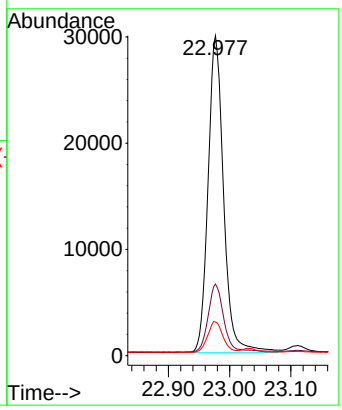


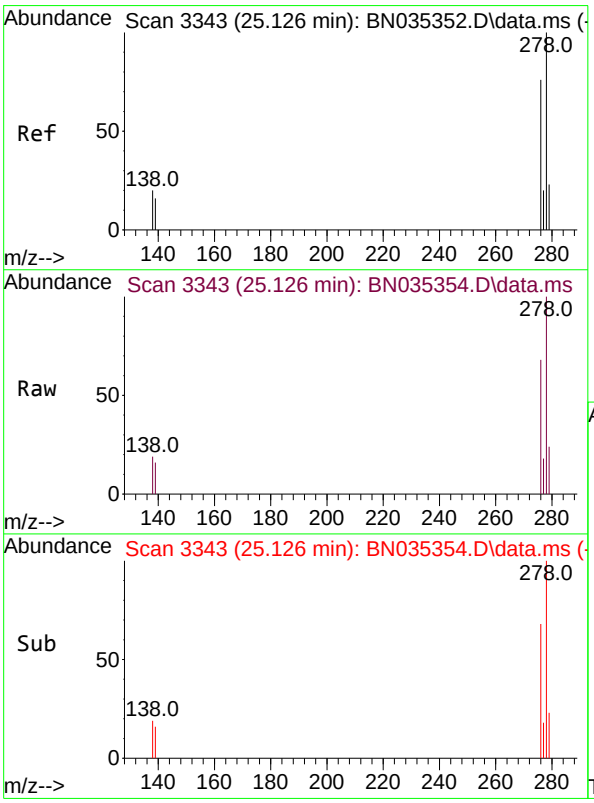
#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 52595

Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.2	30.4
125	10.5	10.9	16.3#

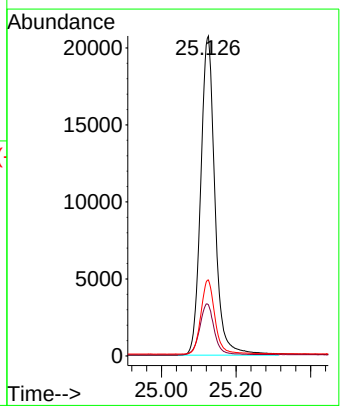


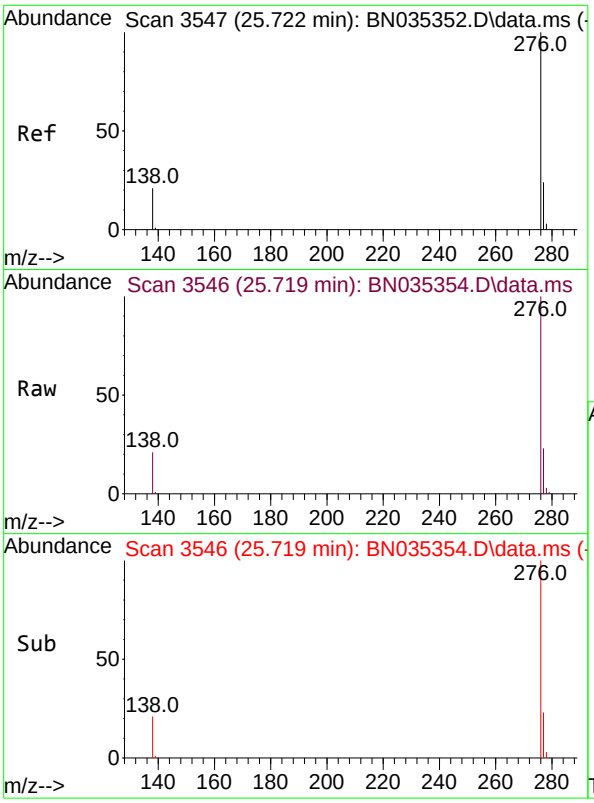


#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:278 Resp: 55068

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.2	21.4
279	23.8	20.5	30.7



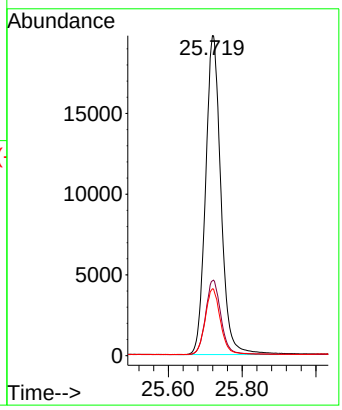


#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 56947

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.9	29.9
138	20.9	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng		0.00
35) Perylene-d12	23.067	264	11643	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	16991	3.007	ng		0.00
5) Phenol-d6	6.513	99	21633	3.053	ng		0.00
8) Nitrobenzene-d5	8.440	82	11759	2.307	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	29957	2.870	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	10700	3.444	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	52048	2.976	ng		0.00
27) Fluoranthene-d10	18.785	212	95675	2.971	ng		0.00
31) Terphenyl-d14	19.412	244	69164	2.941	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	6360	3.146	ng		99
3) n-Nitrosodimethylamine	3.285	42	5524	2.932	ng	#	95
6) bis(2-Chloroethyl)ether	6.759	93	17762	3.339	ng		99
9) Naphthalene	10.105	128	49151	3.214	ng		97
10) Hexachlorobutadiene	10.404	225	11039	2.463	ng	#	100
12) 2-Methylnaphthalene	11.732	142	36121	3.202	ng		98
16) Acenaphthylene	13.679	152	60734	3.300	ng		99
17) Acenaphthene	14.031	154	38676	3.206	ng		99
18) Fluorene	15.026	166	55613	3.134	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	20321	3.034	ng	#	93
22) Hexachlorobenzene	16.040	284	23349	3.359	ng		99
23) Atrazine	16.227	200	15072	2.508	ng		96
24) Pentachlorophenol	16.388	266	11439	3.522	ng		86
25) Phenanthrene	16.773	178	94243	3.406	ng		100
26) Anthracene	16.860	178	87657	3.449	ng		99
28) Fluoranthene	18.812	202	125901	3.309	ng		100
30) Pyrene	19.179	202	129105	3.460	ng		100
32) Benzo(a)anthracene	20.956	228	126517	3.242	ng		99
33) Chrysene	21.009	228	127439	3.297	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	46251	2.259	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	150433	3.239	ng		99
37) Benzo(b)fluoranthene	22.456	252	136261	3.478	ng	#	94
38) Benzo(k)fluoranthene	22.494	252	134789	3.439	ng	#	93
39) Benzo(a)pyrene	22.980	252	114719	3.328	ng	#	93
40) Dibenzo(a,h)anthracene	25.123	278	119216	3.240	ng		96
41) Benzo(g,h,i)perylene	25.722	276	123841	3.164	ng		97

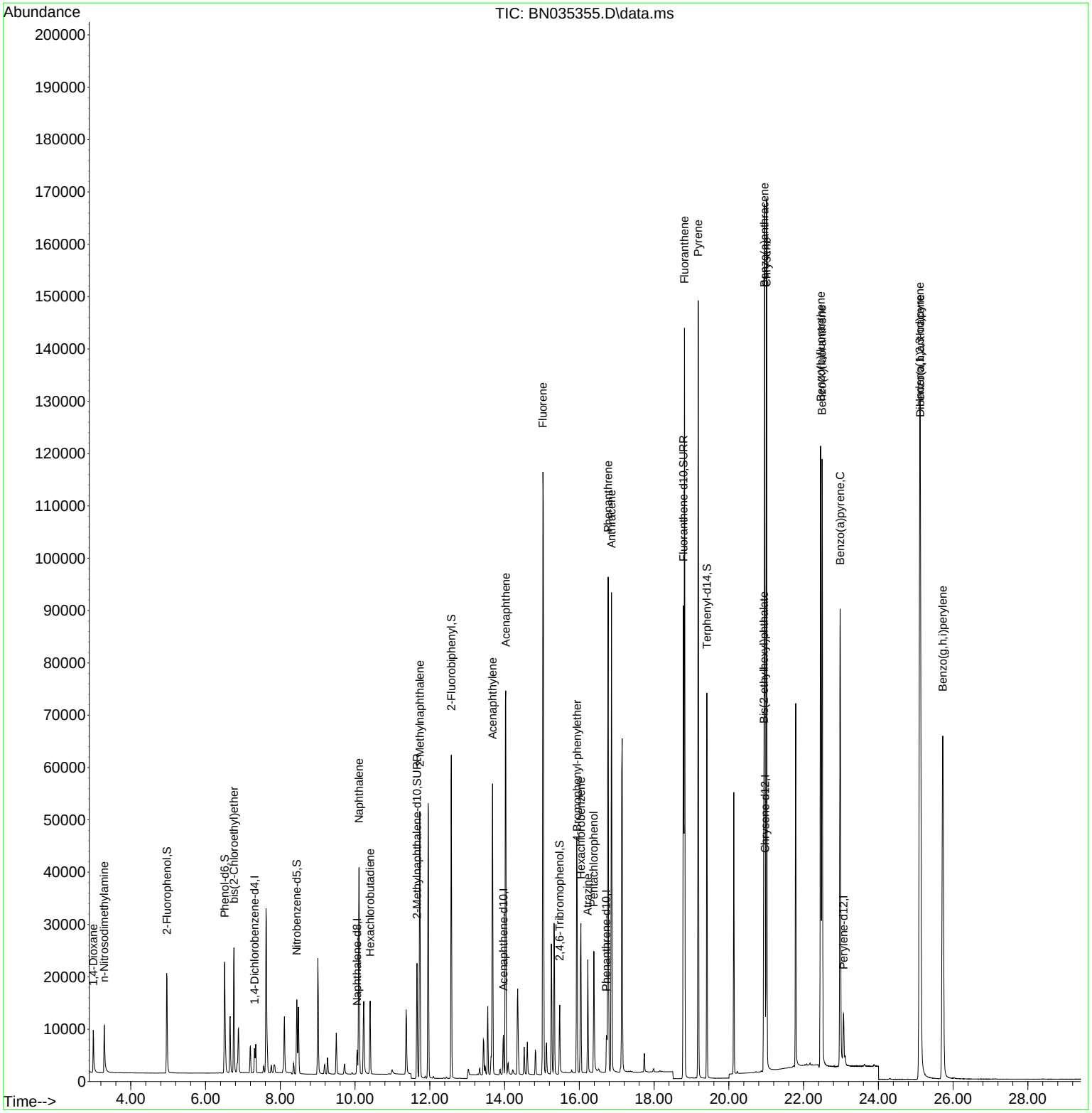
(#) = qualifier out of range (m) = manual integration (+) = signals summed

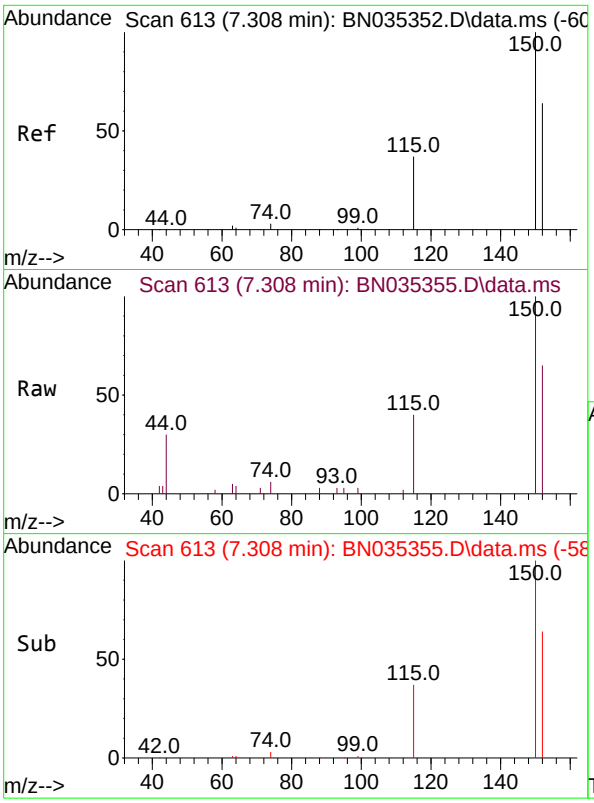
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



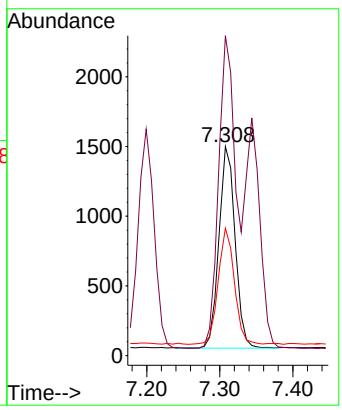


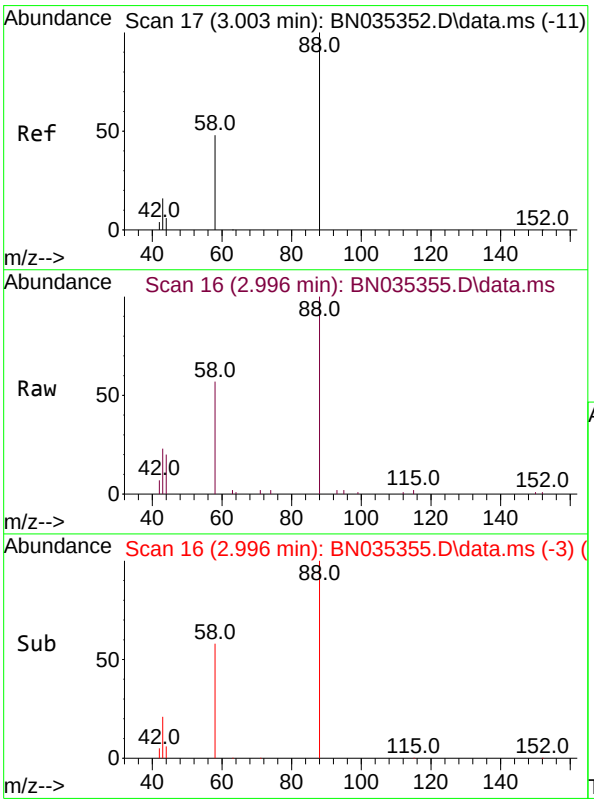
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2226

Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.0	186.0
115	61.0	49.6	74.4

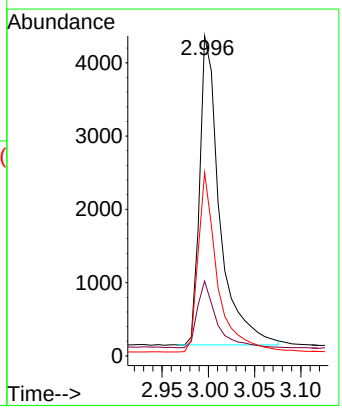


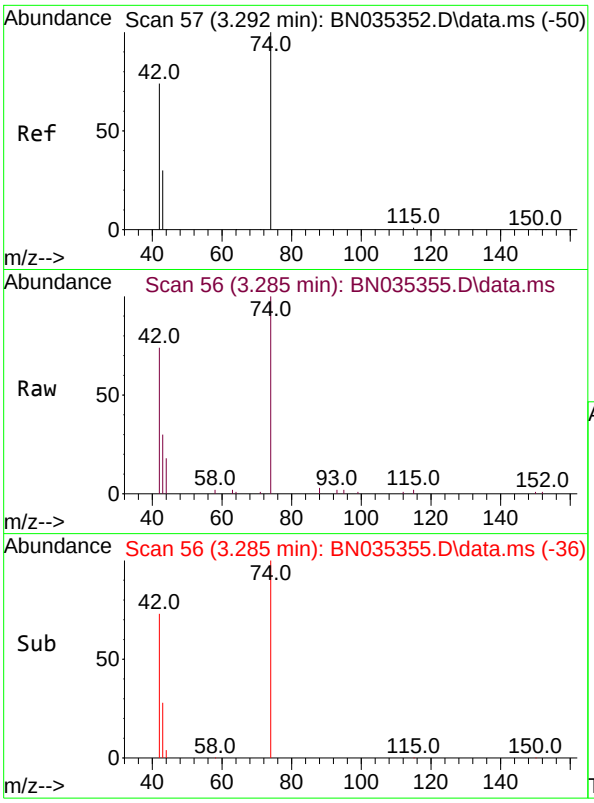


#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	55.4	44.5	66.7



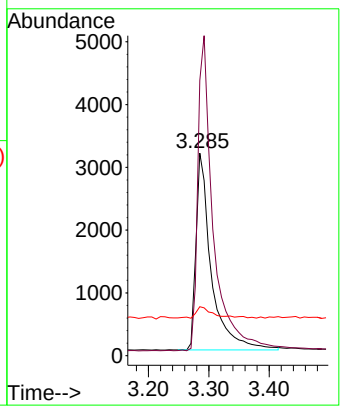


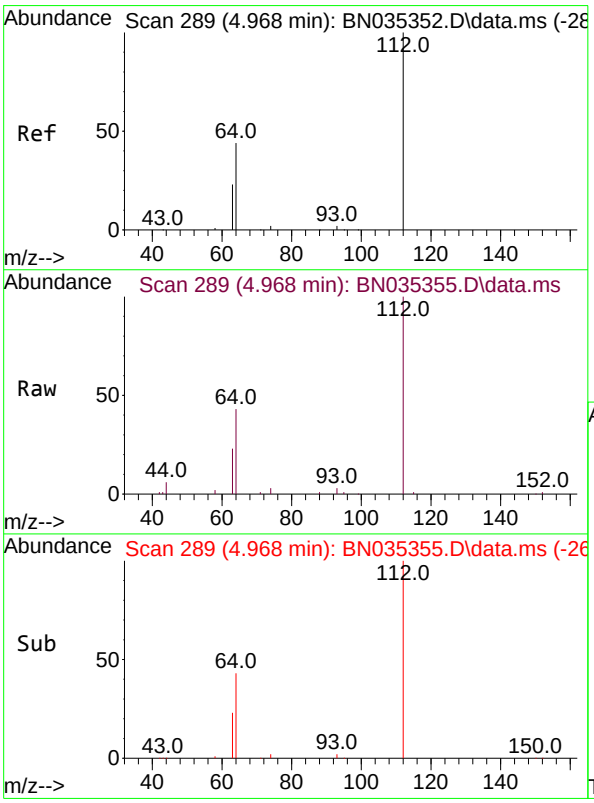
#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5524

Ion	Ratio	Lower	Upper
42	100		
74	162.0	124.9	187.3
44	6.4	2.2	3.4#

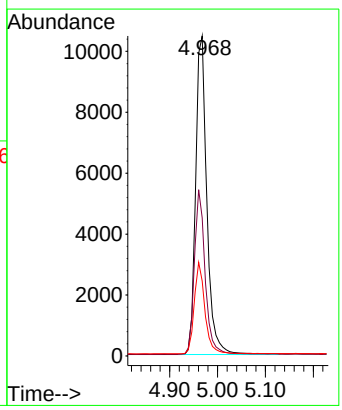


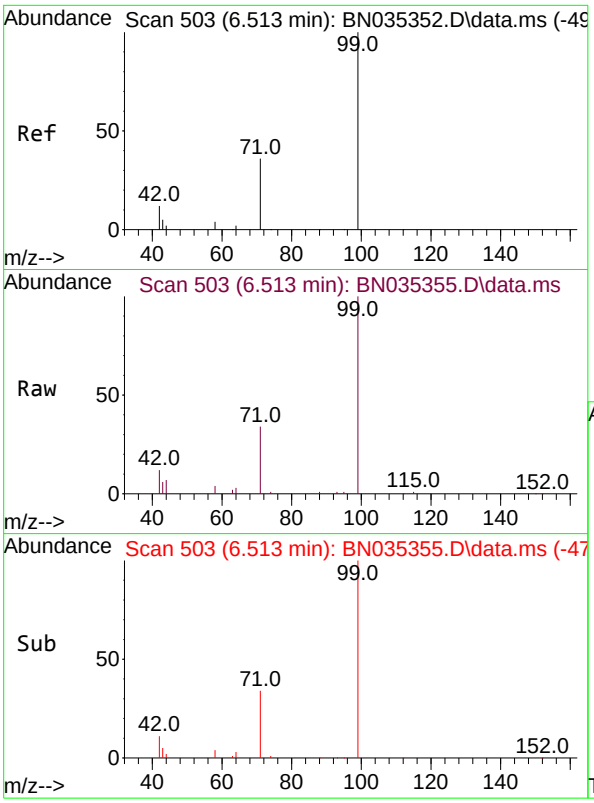


#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:112 Resp: 16991

Ion	Ratio	Lower	Upper
112	100		
64	49.7	39.8	59.8
63	27.1	21.0	31.6



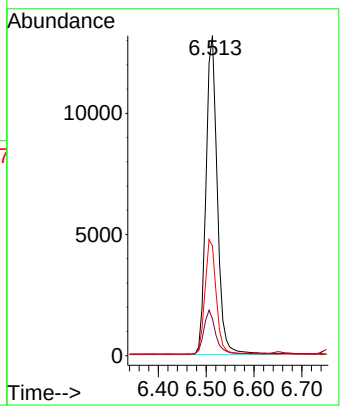


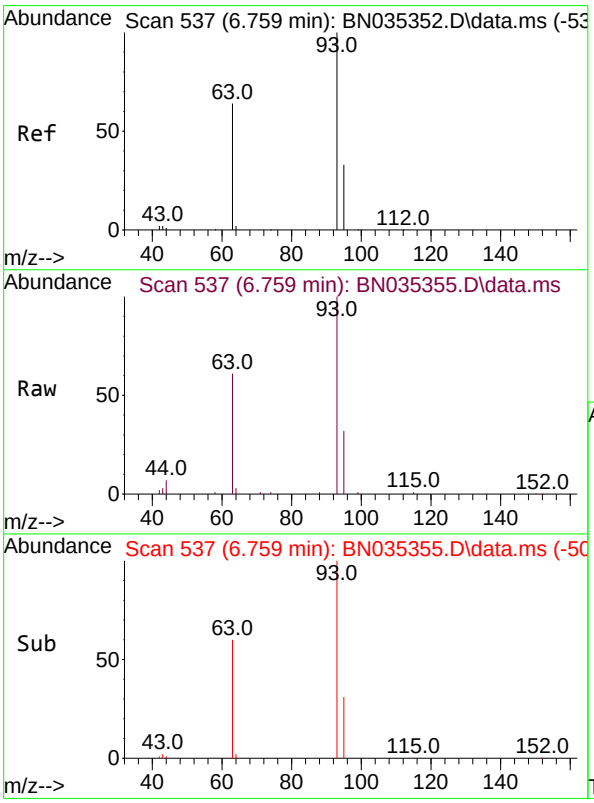
#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 21633

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.5	29.3	43.9

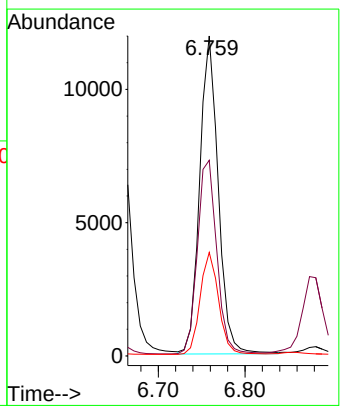


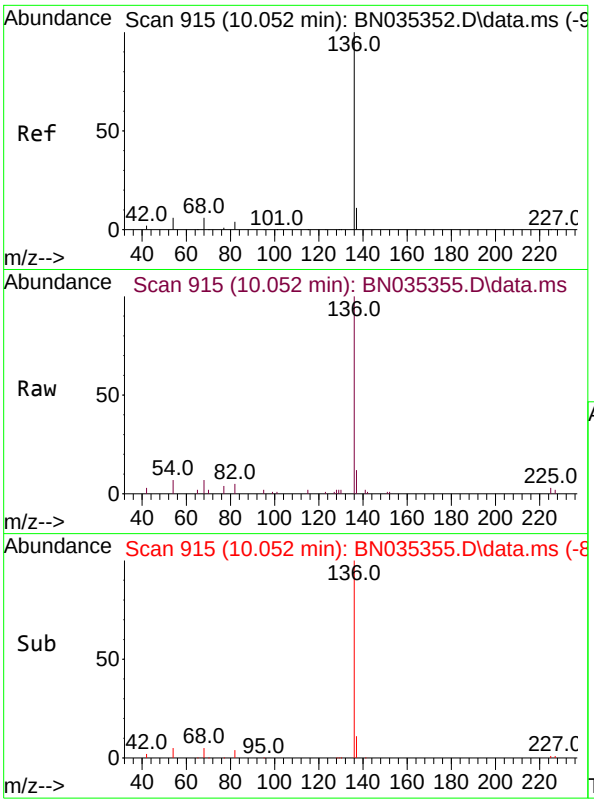


#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.0	25.7	38.5



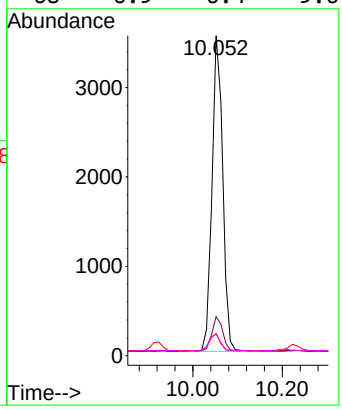


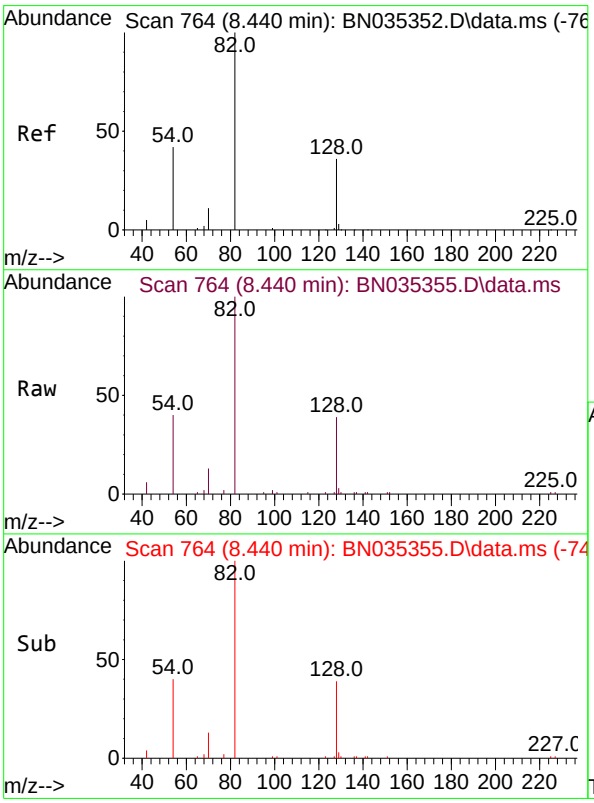
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5857

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6

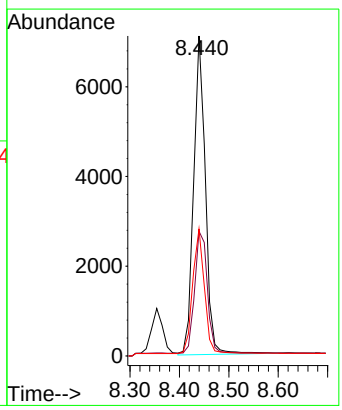


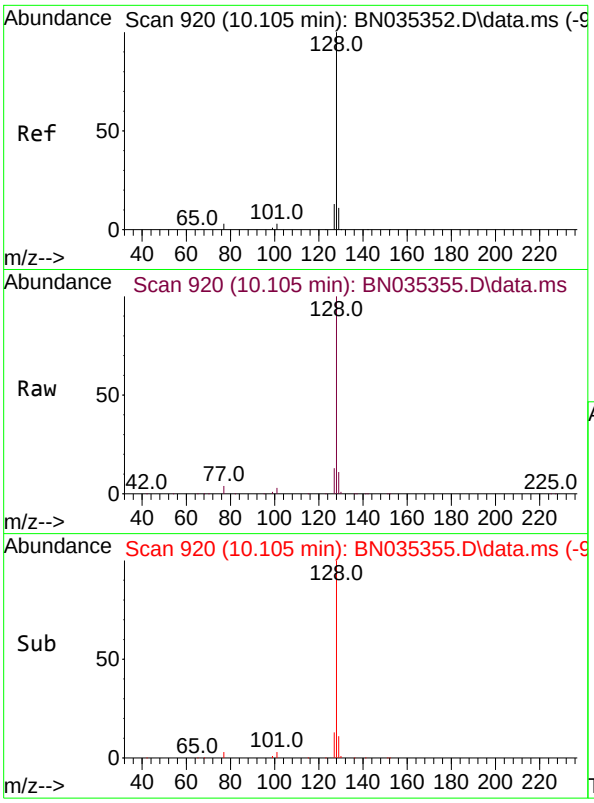


#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

Ion	Ratio	Lower	Upper
82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1



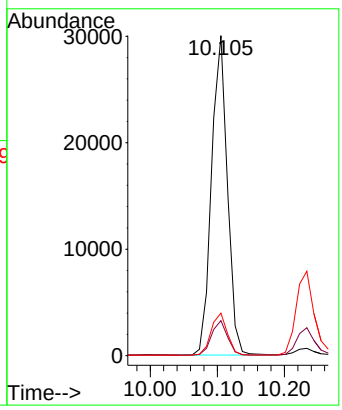


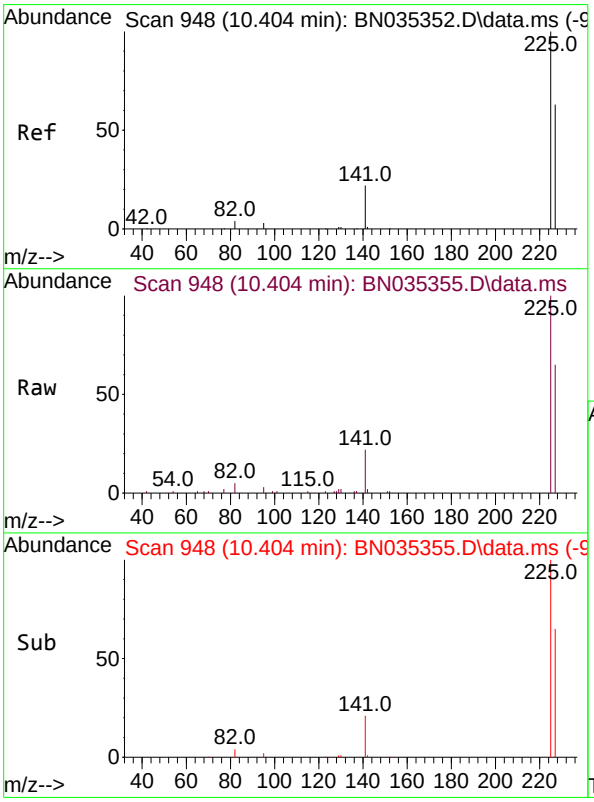
#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 49151

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.6
127	13.3	11.4	17.2

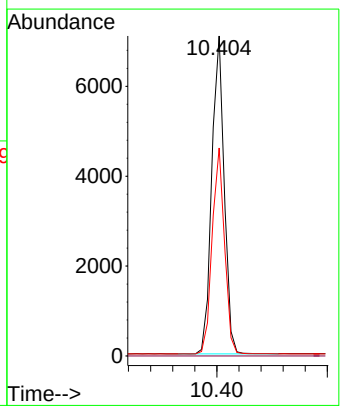


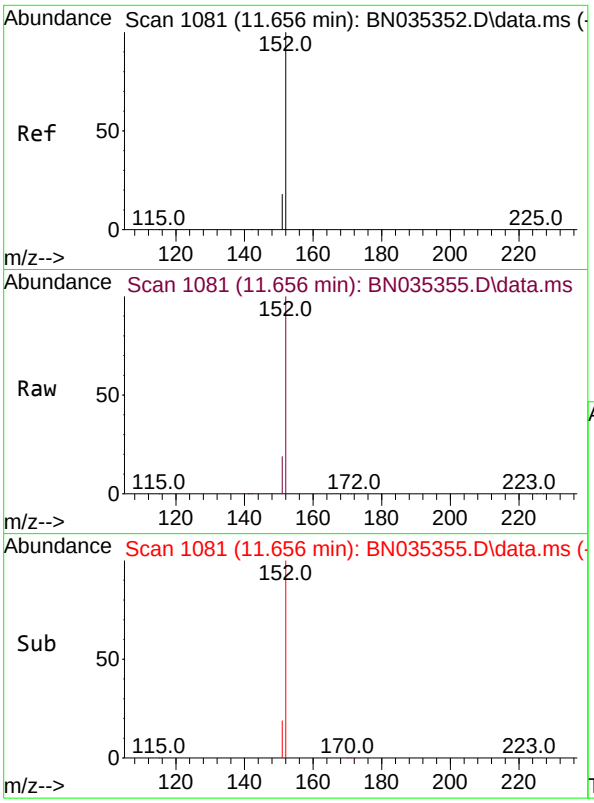


#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9



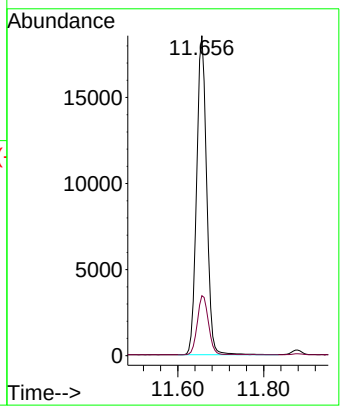


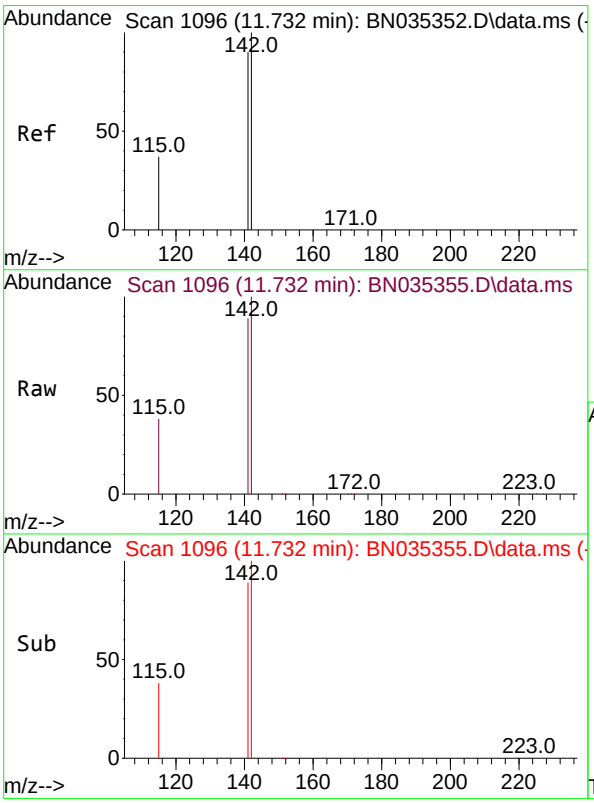
#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 29957

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

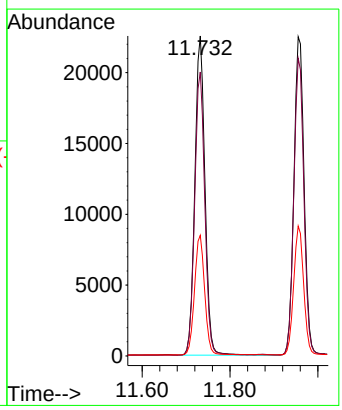


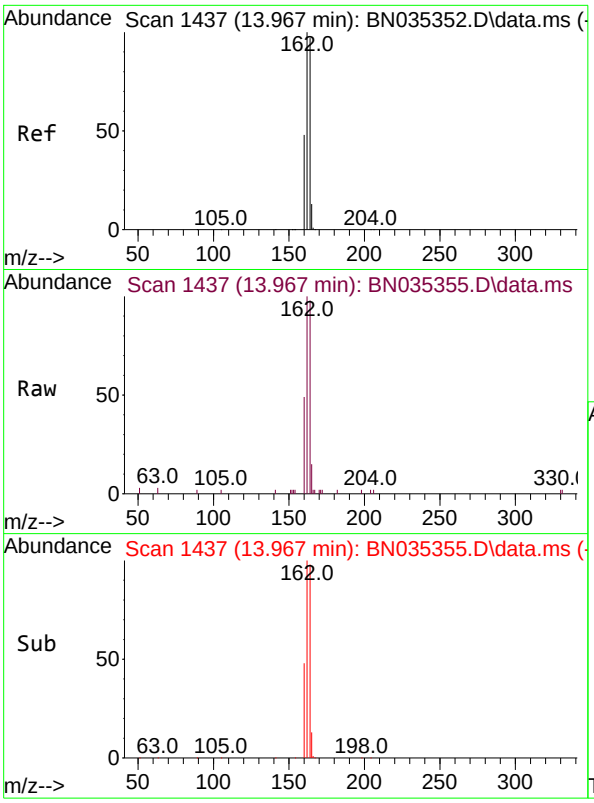


#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121

Ion	Ratio	Lower	Upper
142	100		
141	88.7	72.2	108.4
115	37.7	31.4	47.0



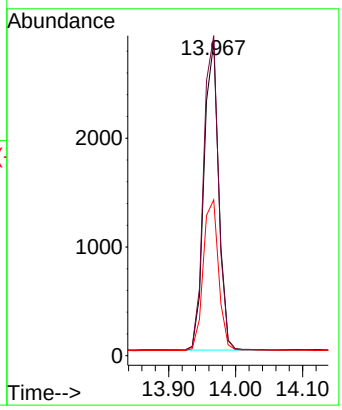


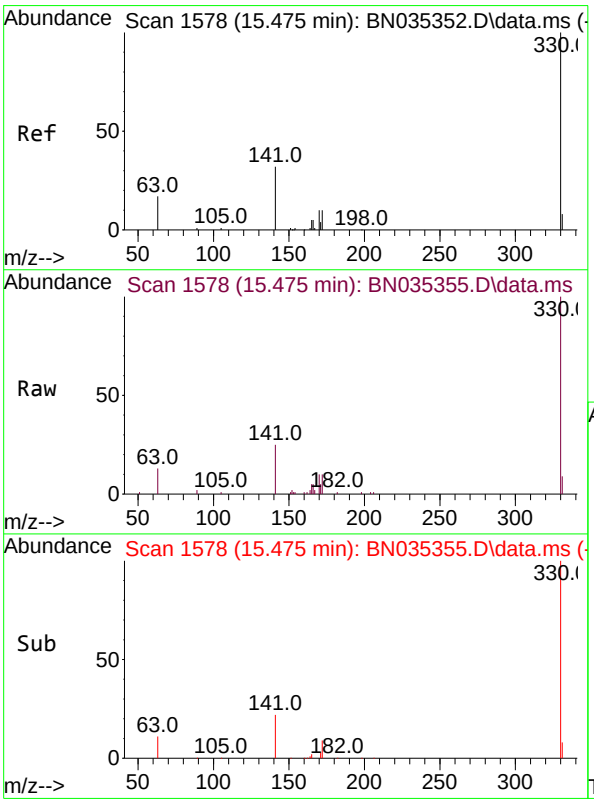
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 4307

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	49.7	40.1	60.1

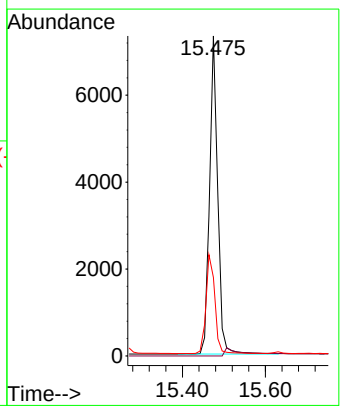


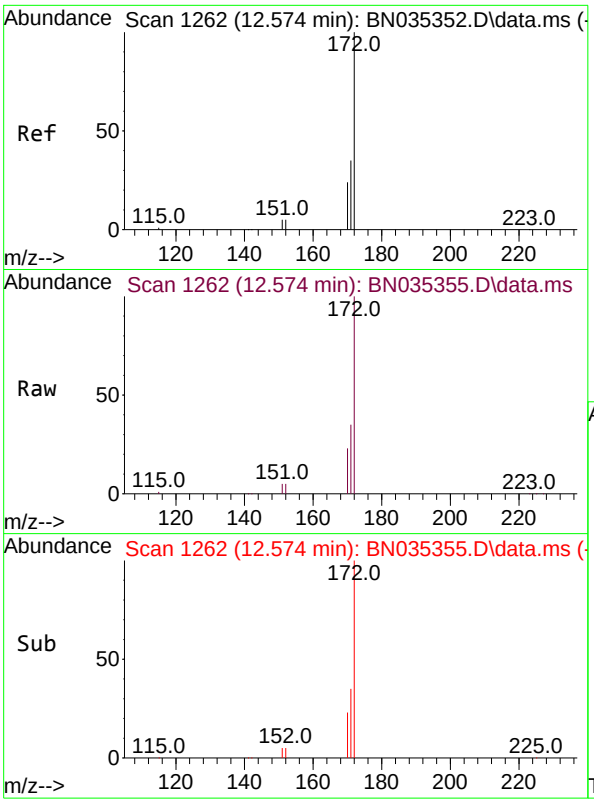


#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.7	26.6	40.0



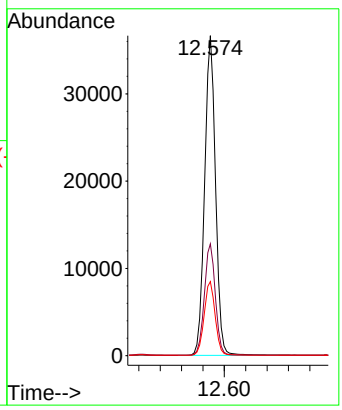


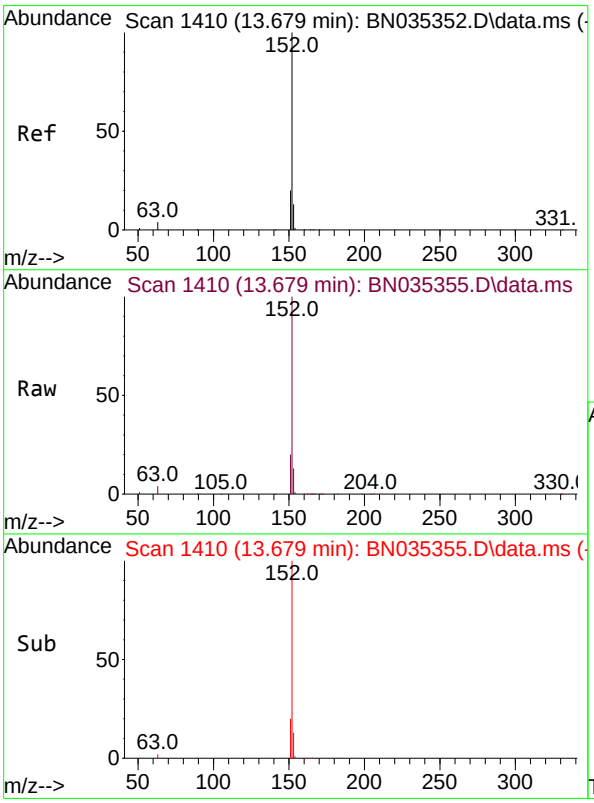
#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 52048

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.1	19.8	29.8

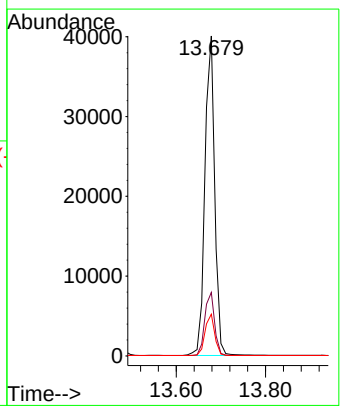


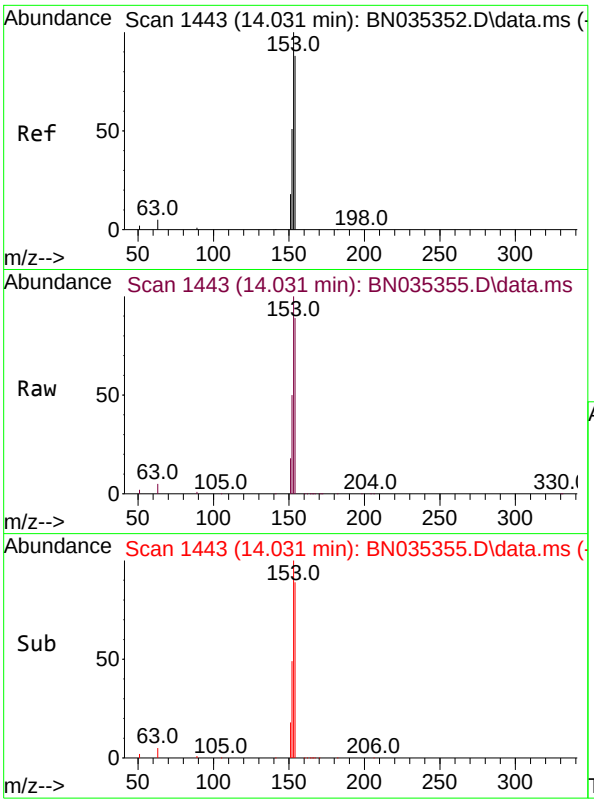


#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



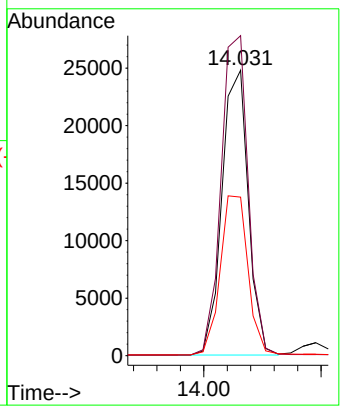


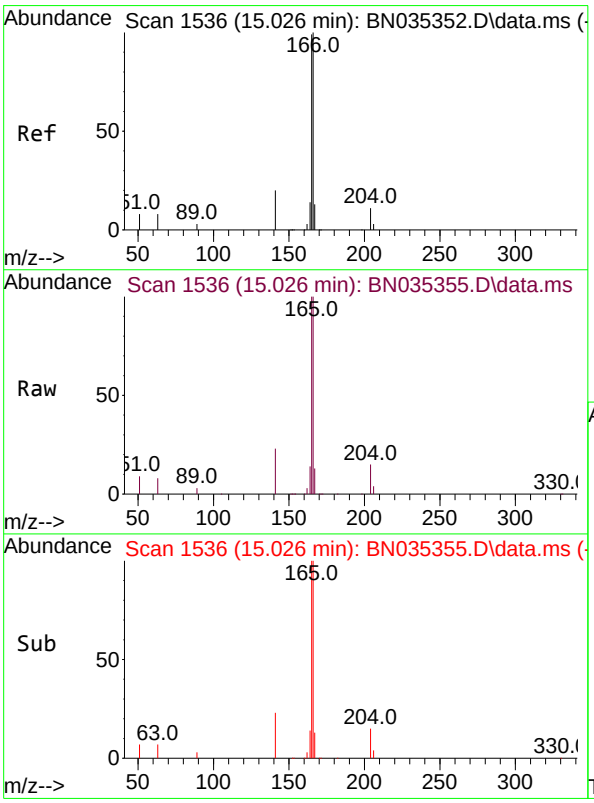
#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 38676

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	59.2	49.0	73.6

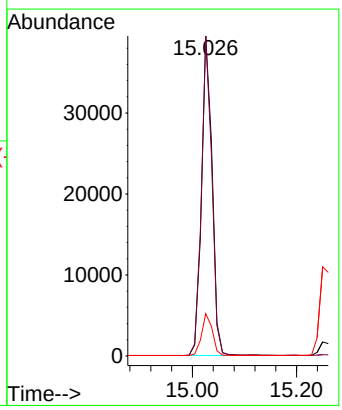


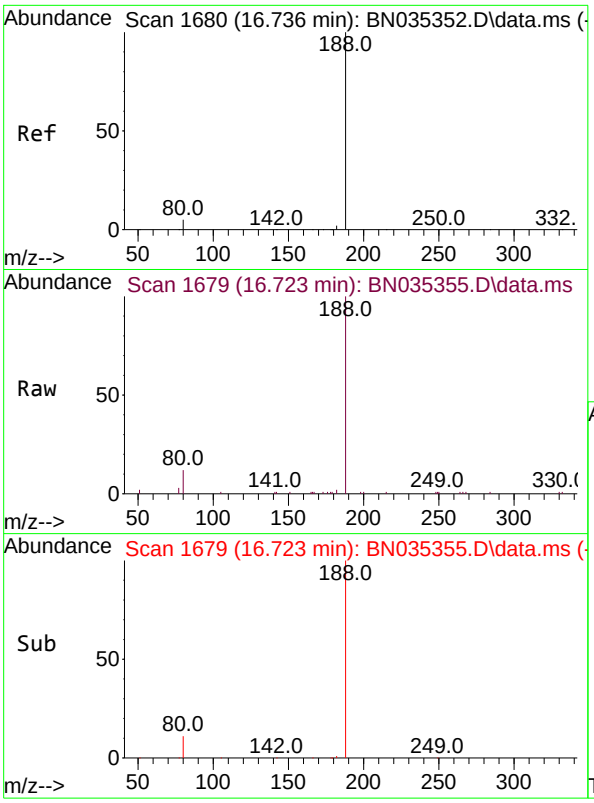


#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.3	10.8	16.2



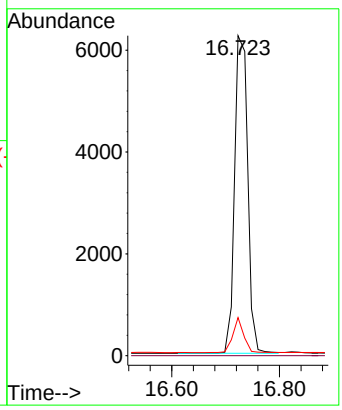


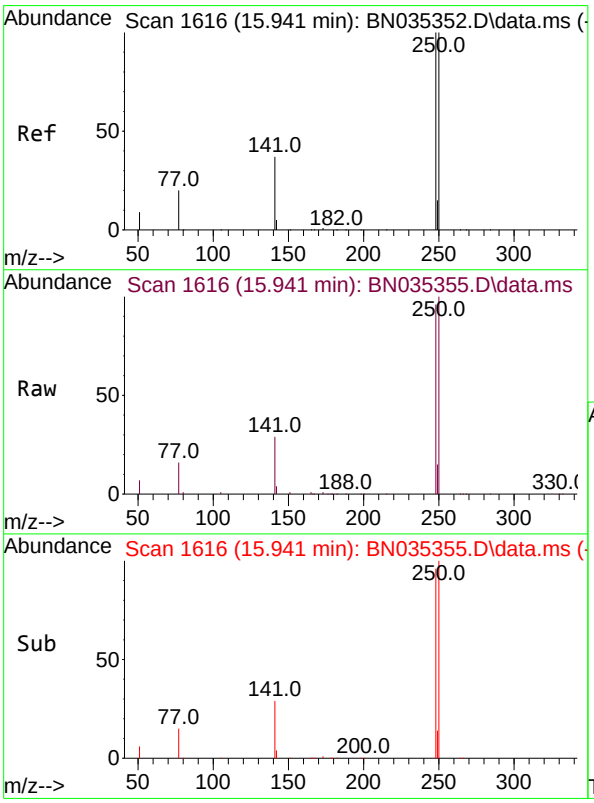
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 10513

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

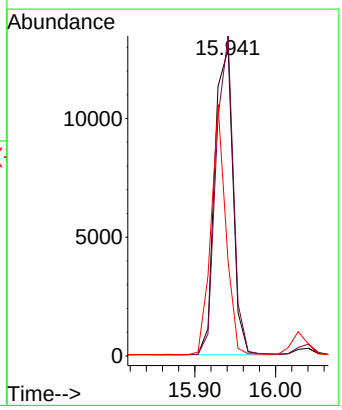


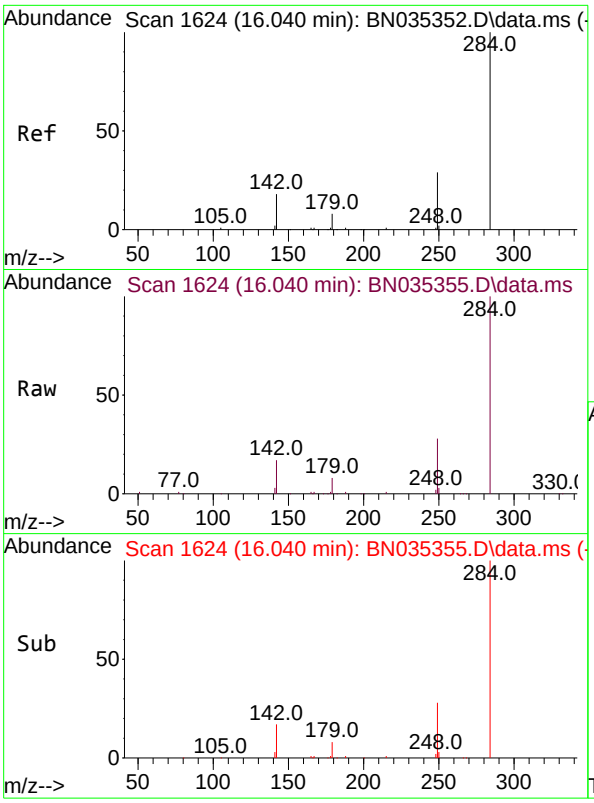


#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:248 Resp: 20321

Ion	Ratio	Lower	Upper
248	100		
250	104.3	80.6	120.8
141	30.7	31.5	47.3#



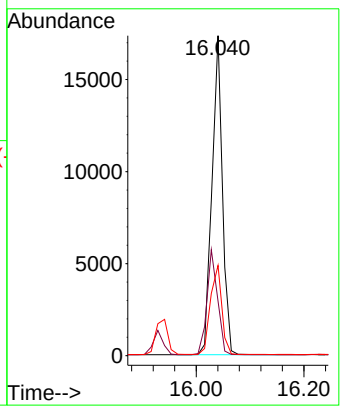


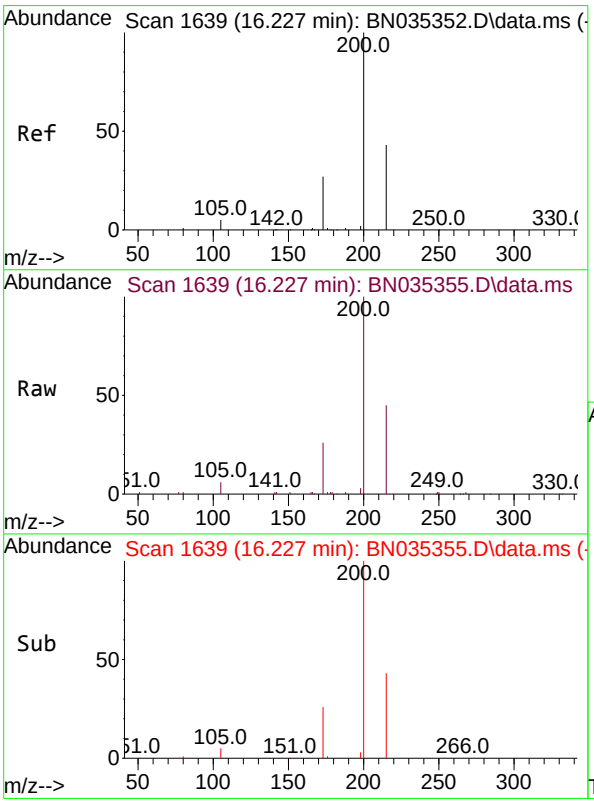
#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:284 Resp: 23349

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.7	40.1
249	30.2	24.6	36.8

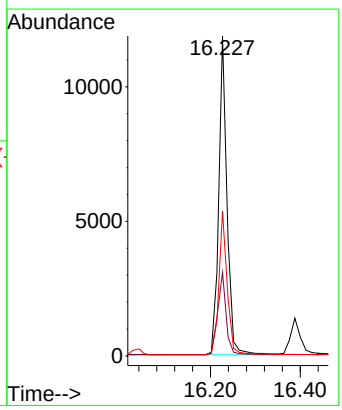


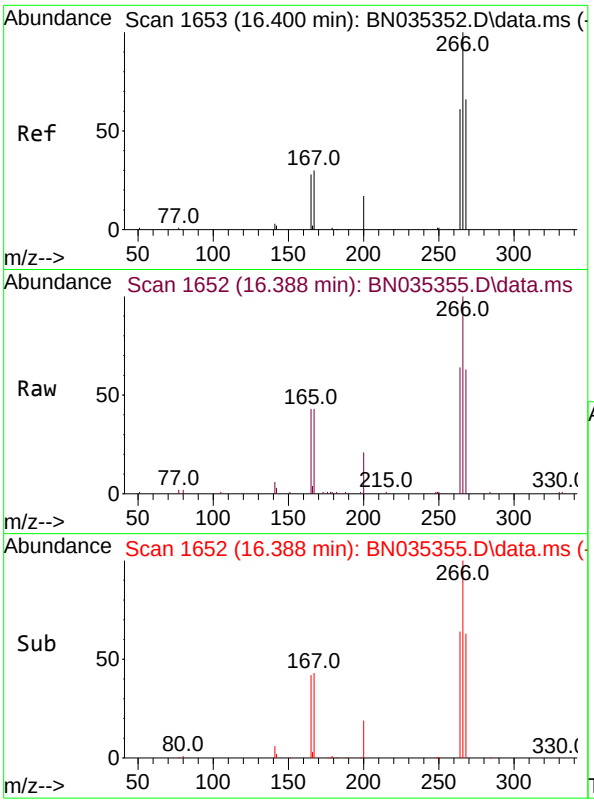


#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:200 Resp: 15072

Ion	Ratio	Lower	Upper
200	100		
173	26.2	24.1	36.1
215	45.1	36.9	55.3



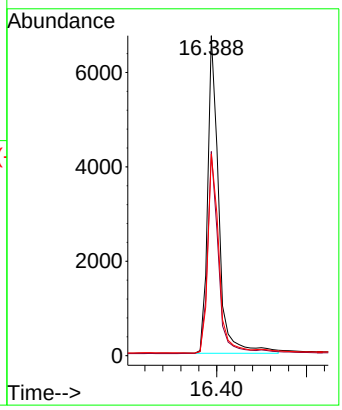


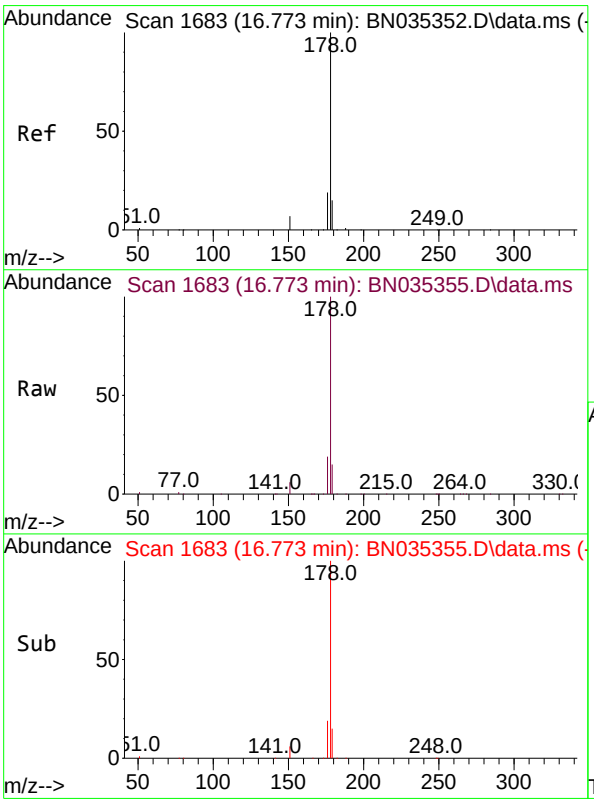
#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:266 Resp: 11439

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.4	43.3	64.9

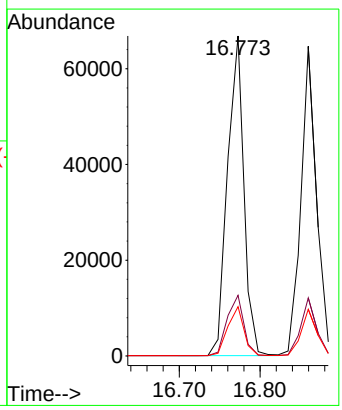


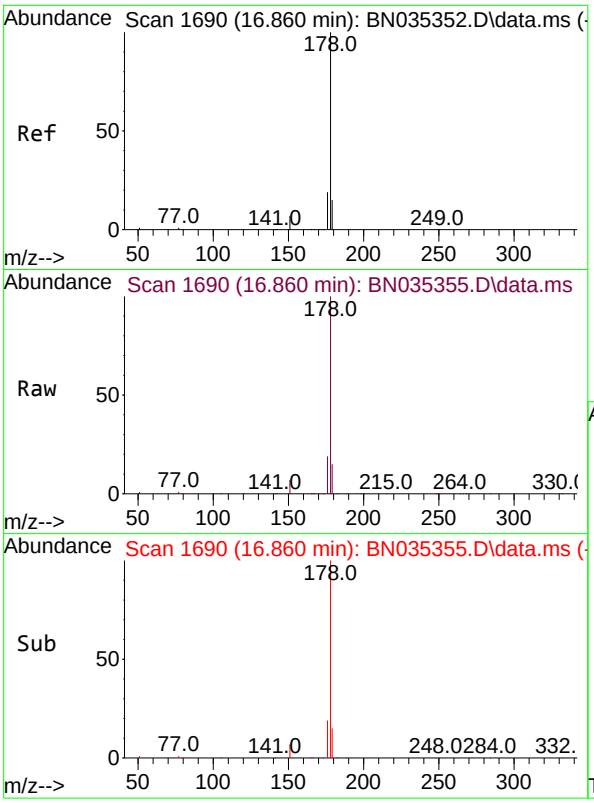


#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5



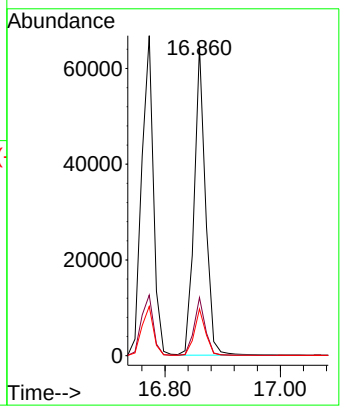


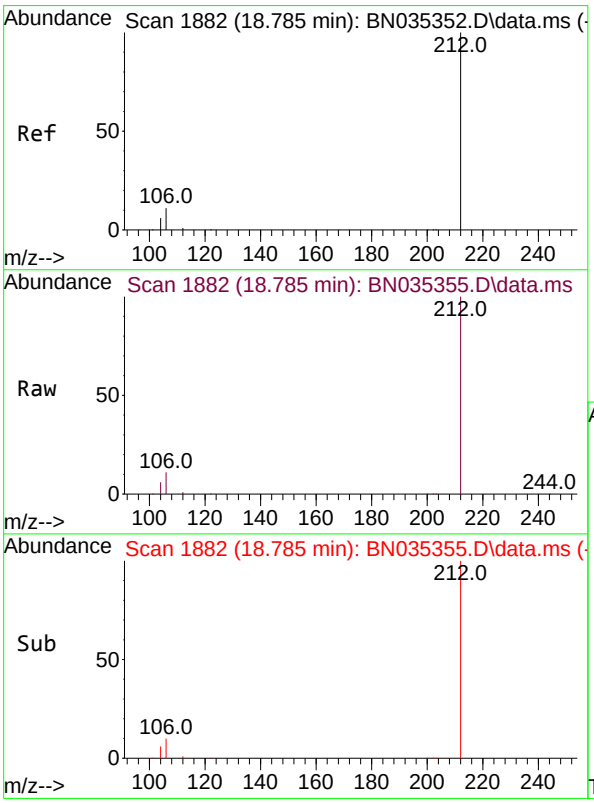
#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 87657

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.1	12.6	18.8

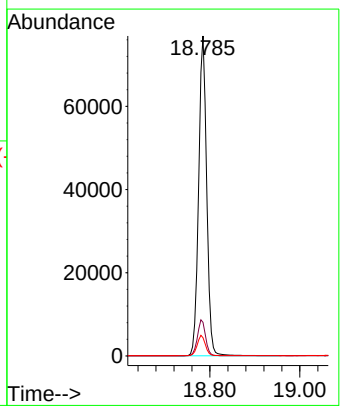


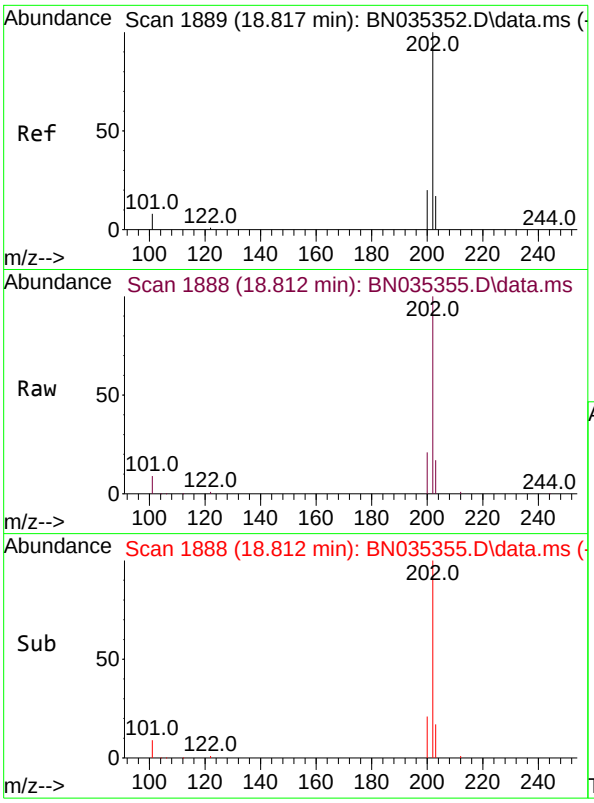


#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



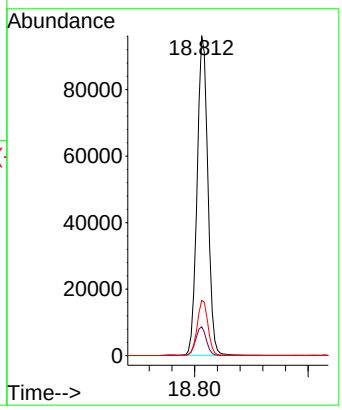


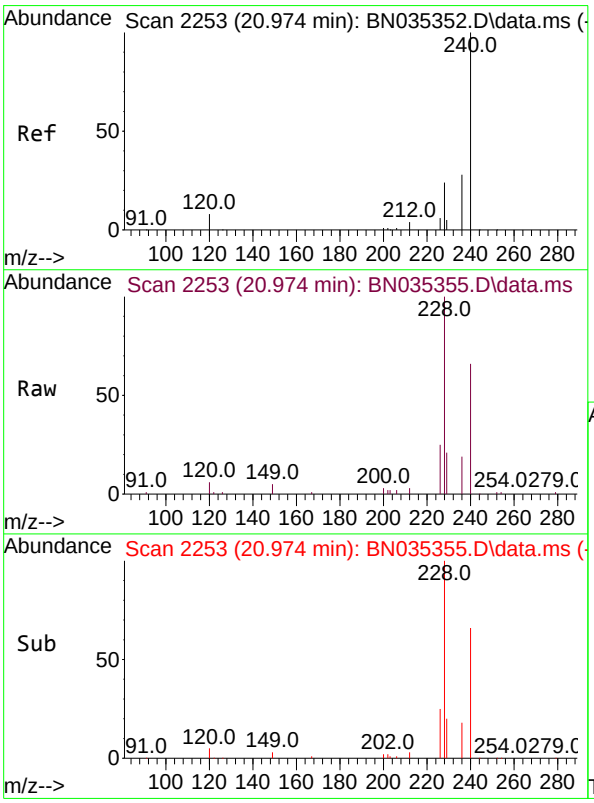
#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 125901

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.3	13.7	20.5

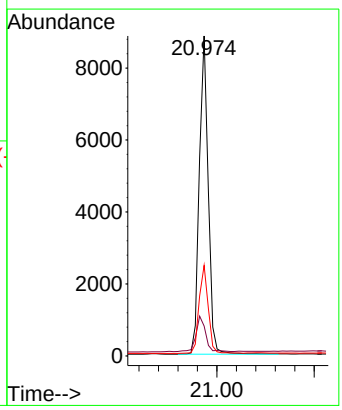


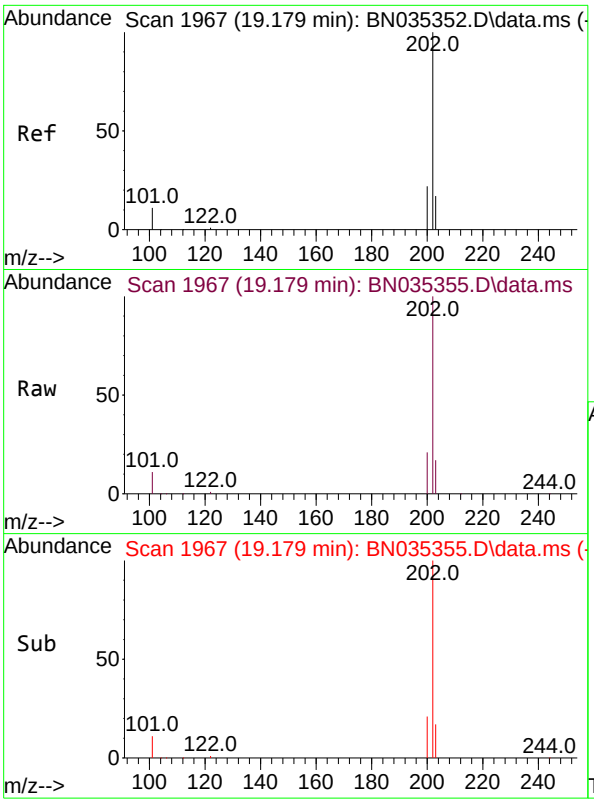


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.9	11.9
236	28.3	22.9	34.3



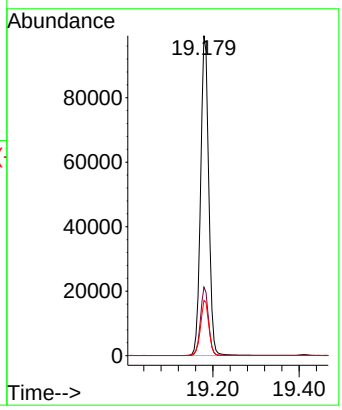


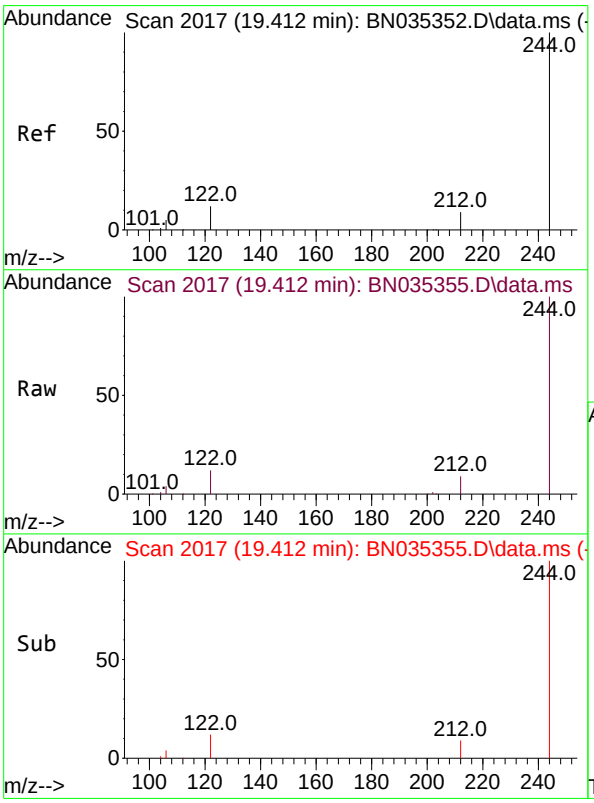
#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 129105

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

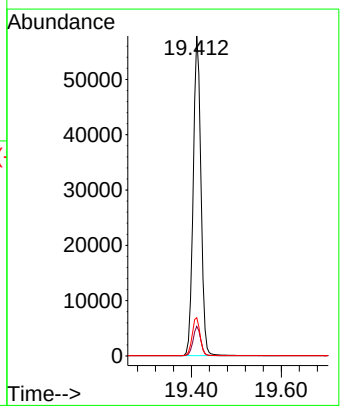


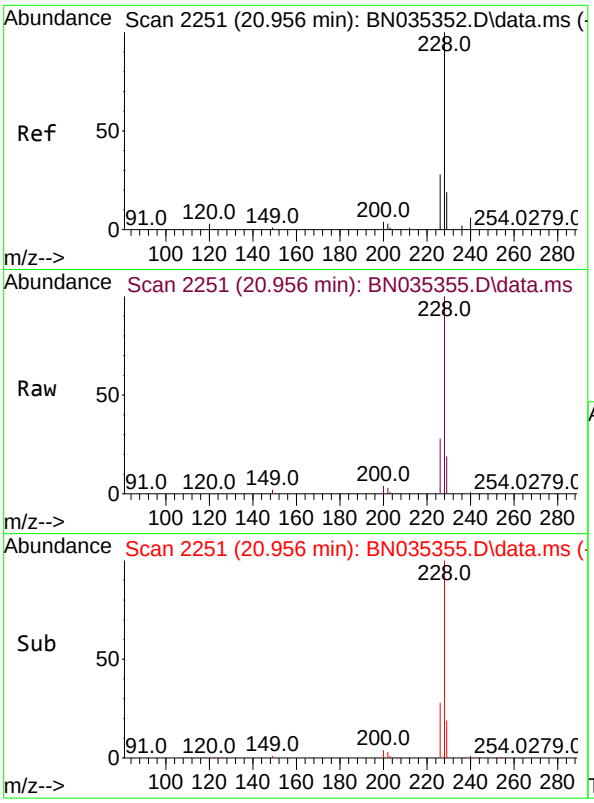


#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.0	10.3	15.5



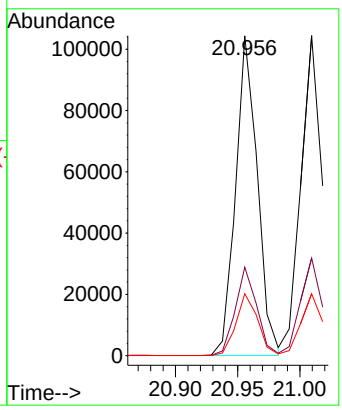


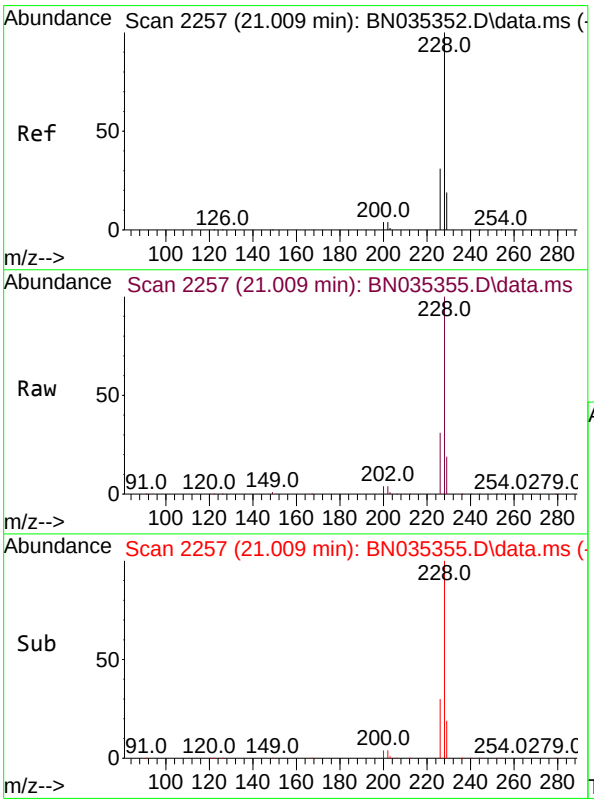
#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 126517

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.4	15.8	23.8

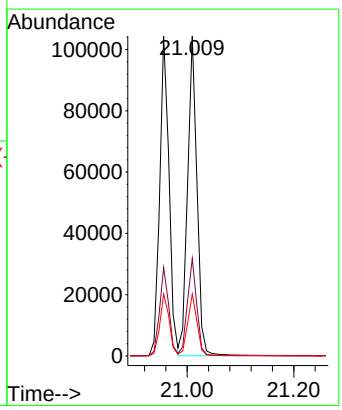


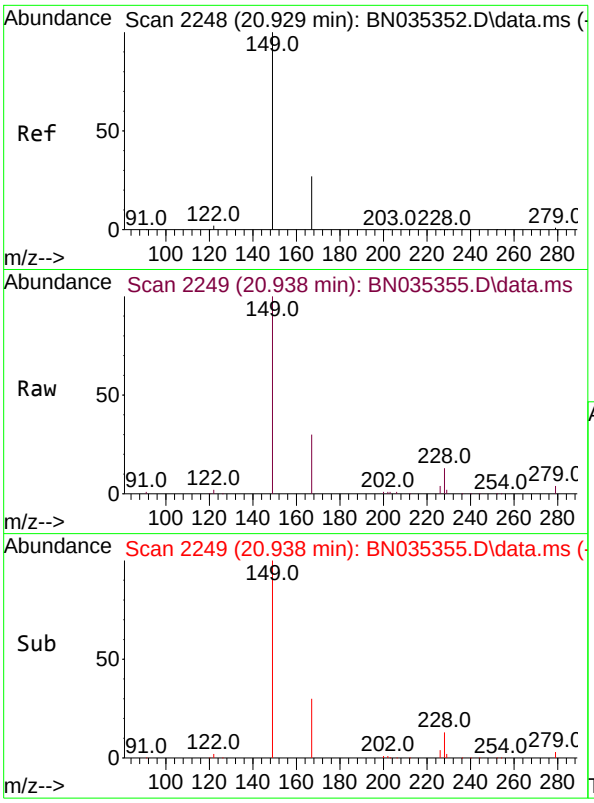


#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.4	15.9	23.9



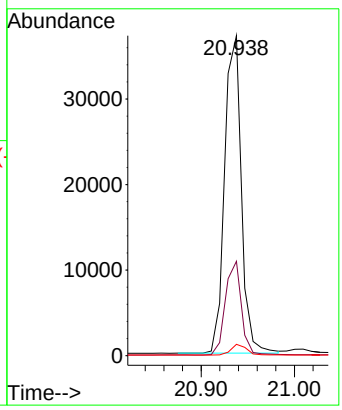


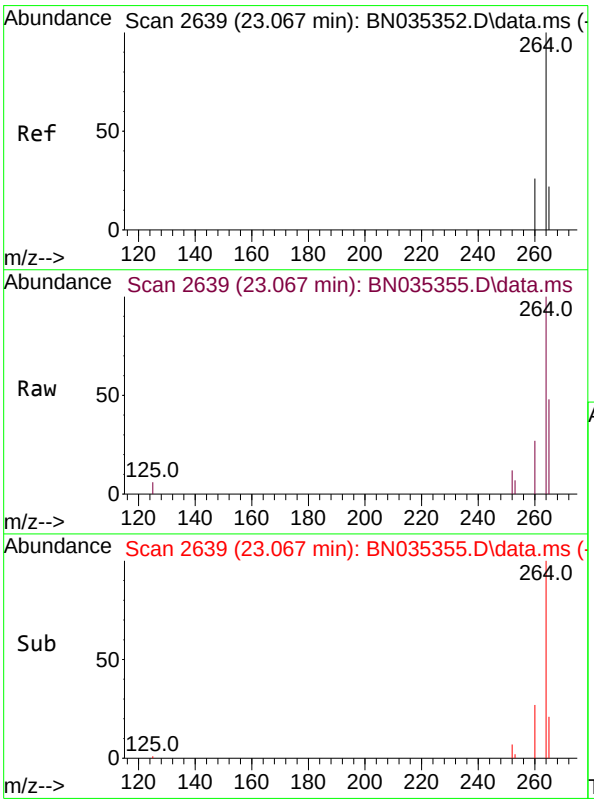
#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:149 Resp: 46251

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.4
279	3.2	2.7	4.1

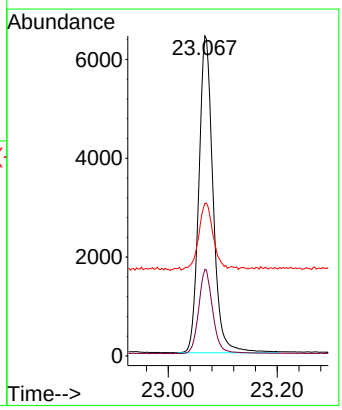


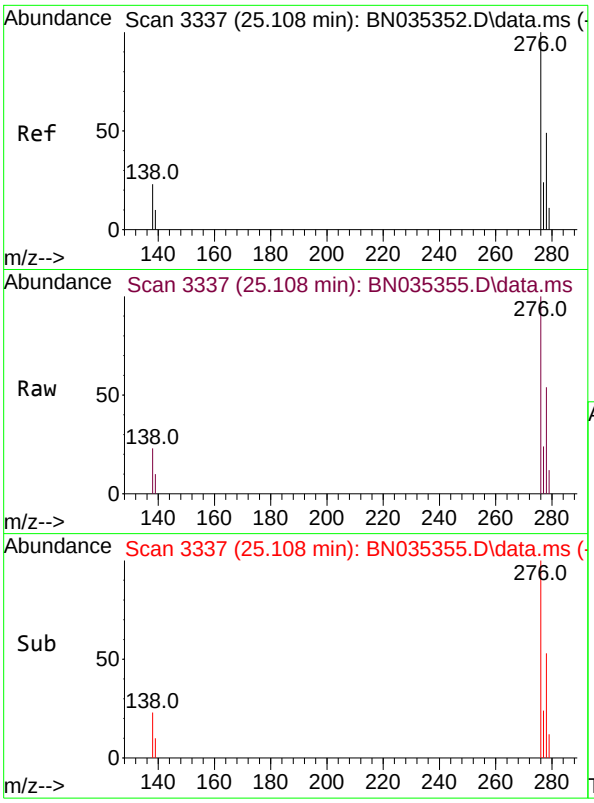


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	47.7	40.2	60.4



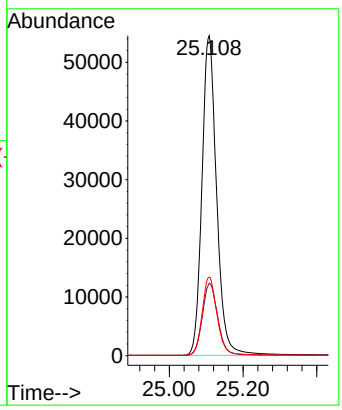


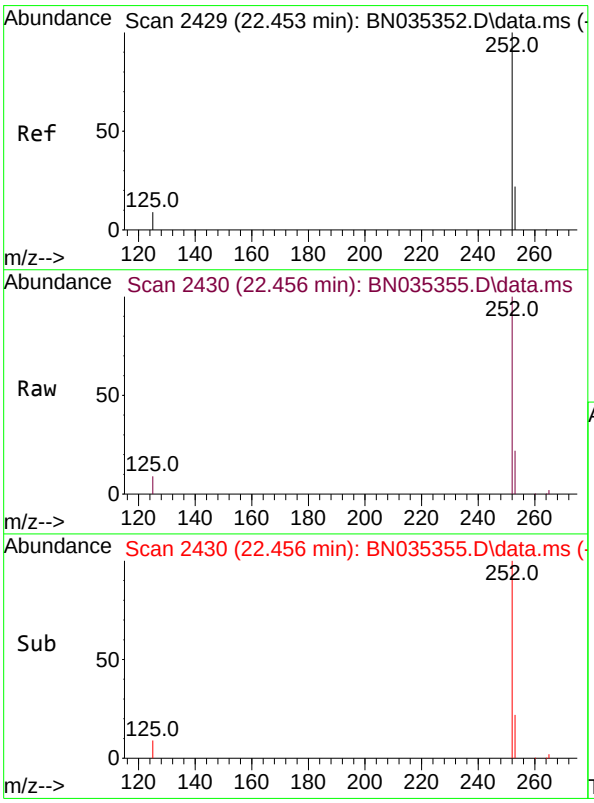
#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 150433

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.9	19.8	29.6

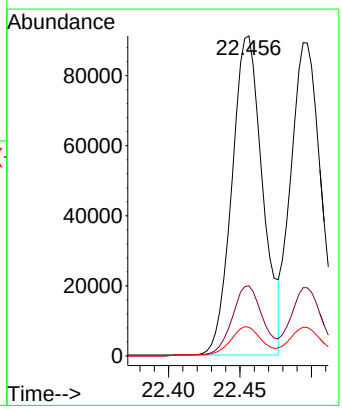


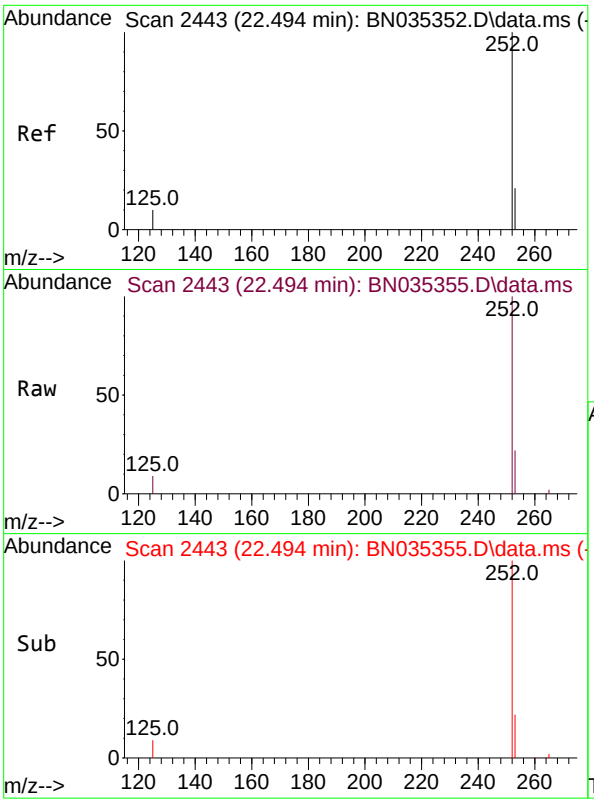


#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 136261

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



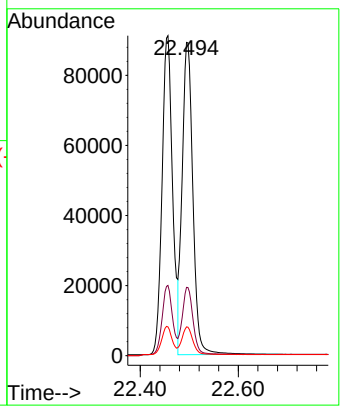


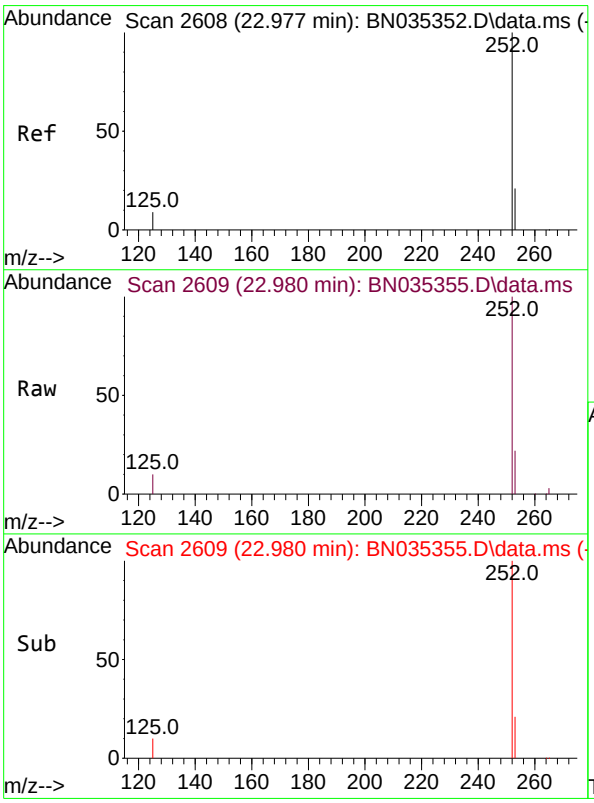
#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 134789

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	9.2	10.2	15.4#

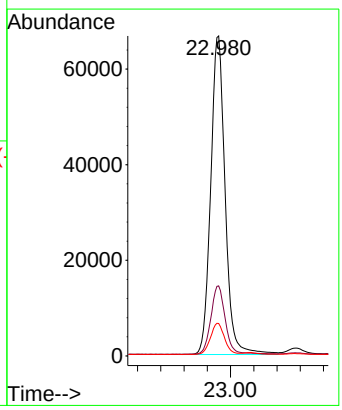


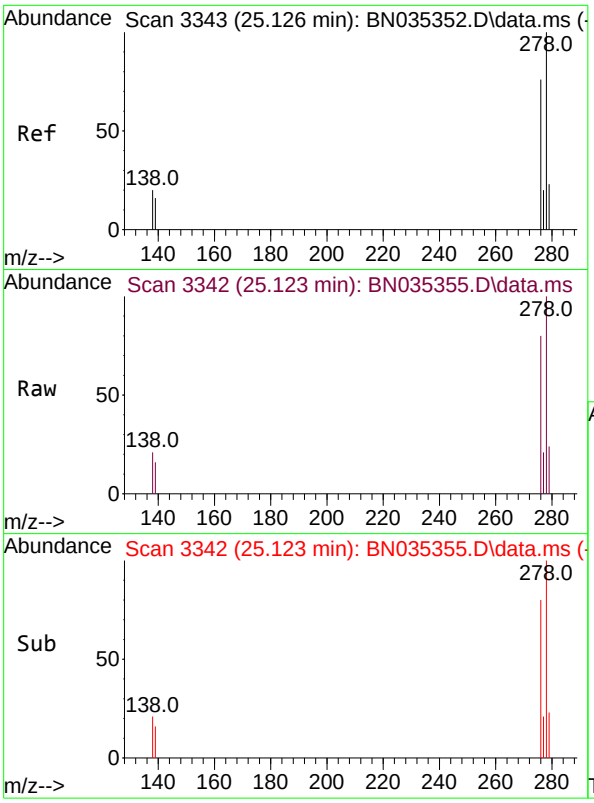


#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 114719

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.4
125	10.1	10.9	16.3#



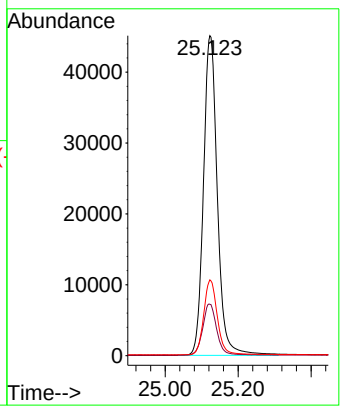


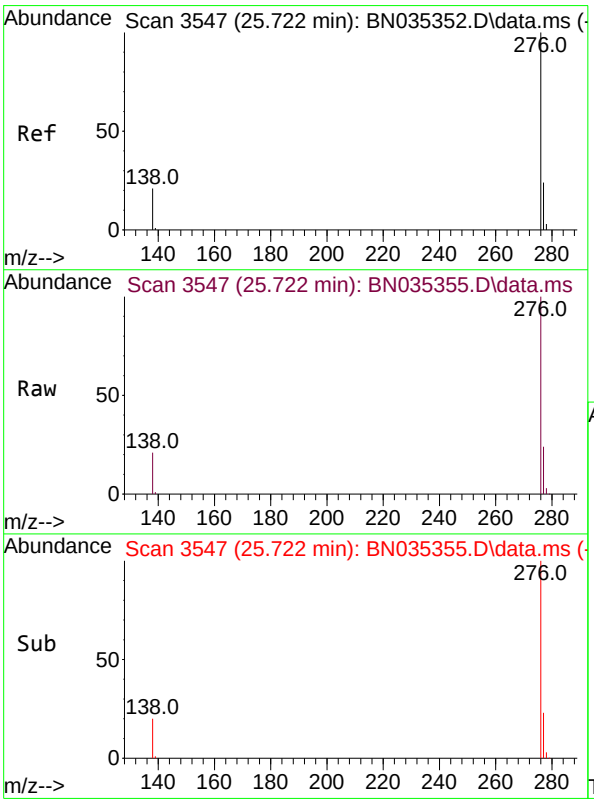
#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:278 Resp: 119216

Ion	Ratio	Lower	Upper
278	100		
139	16.1	14.2	21.4
279	23.7	20.5	30.7

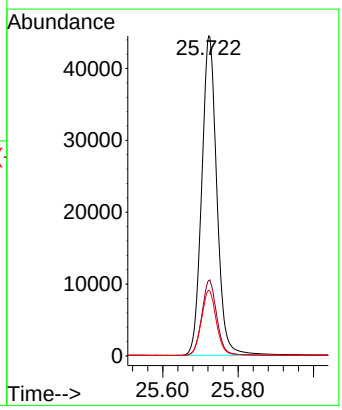




#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:276 Resp: 123841

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.9	29.9
138	20.6	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng		0.00
35) Perylene-d12	23.067	264	12000	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	26472	4.637	ng		0.00
5) Phenol-d6	6.513	99	34560	4.828	ng		0.00
8) Nitrobenzene-d5	8.440	82	18911	3.741	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	47612	4.601	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	17905	5.689	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	82401	4.650	ng		0.00
27) Fluoranthene-d10	18.785	212	152416	4.748	ng		0.00
31) Terphenyl-d14	19.412	244	110737	4.581	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	9786	4.790	ng		99
3) n-Nitrosodimethylamine	3.285	42	8681	4.560	ng	#	96
6) bis(2-Chloroethyl)ether	6.759	93	27872	5.187	ng		99
9) Naphthalene	10.105	128	77668	5.123	ng		97
10) Hexachlorobutadiene	10.404	225	17273	3.887	ng	#	100
12) 2-Methylnaphthalene	11.732	142	57698	5.158	ng		98
16) Acenaphthylene	13.679	152	97129	5.209	ng		99
17) Acenaphthene	14.031	154	62170	5.088	ng		98
18) Fluorene	15.026	166	88648	4.932	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	31947	4.785	ng	#	94
22) Hexachlorobenzene	16.040	284	36315	5.241	ng		100
23) Atrazine	16.227	200	25034	4.179	ng		96
24) Pentachlorophenol	16.388	266	19691	6.083	ng		86
25) Phenanthrene	16.773	178	147357	5.343	ng		100
26) Anthracene	16.860	178	139399	5.503	ng		99
28) Fluoranthene	18.812	202	199850	5.270	ng		99
30) Pyrene	19.179	202	206018	5.370	ng		100
32) Benzo(a)anthracene	20.956	228	205712	5.128	ng		99
33) Chrysene	21.009	228	204475	5.146	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	78322	3.721	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	252709	5.279	ng		99
37) Benzo(b)fluoranthene	22.456	252	241201	5.974	ng	#	94
38) Benzo(k)fluoranthene	22.497	252	220146	5.449	ng	#	93
39) Benzo(a)pyrene	22.977	252	190665	5.367	ng	#	92
40) Dibenzo(a,h)anthracene	25.126	278	199852	5.269	ng		96
41) Benzo(g,h,i)perylene	25.725	276	209119	5.183	ng		97

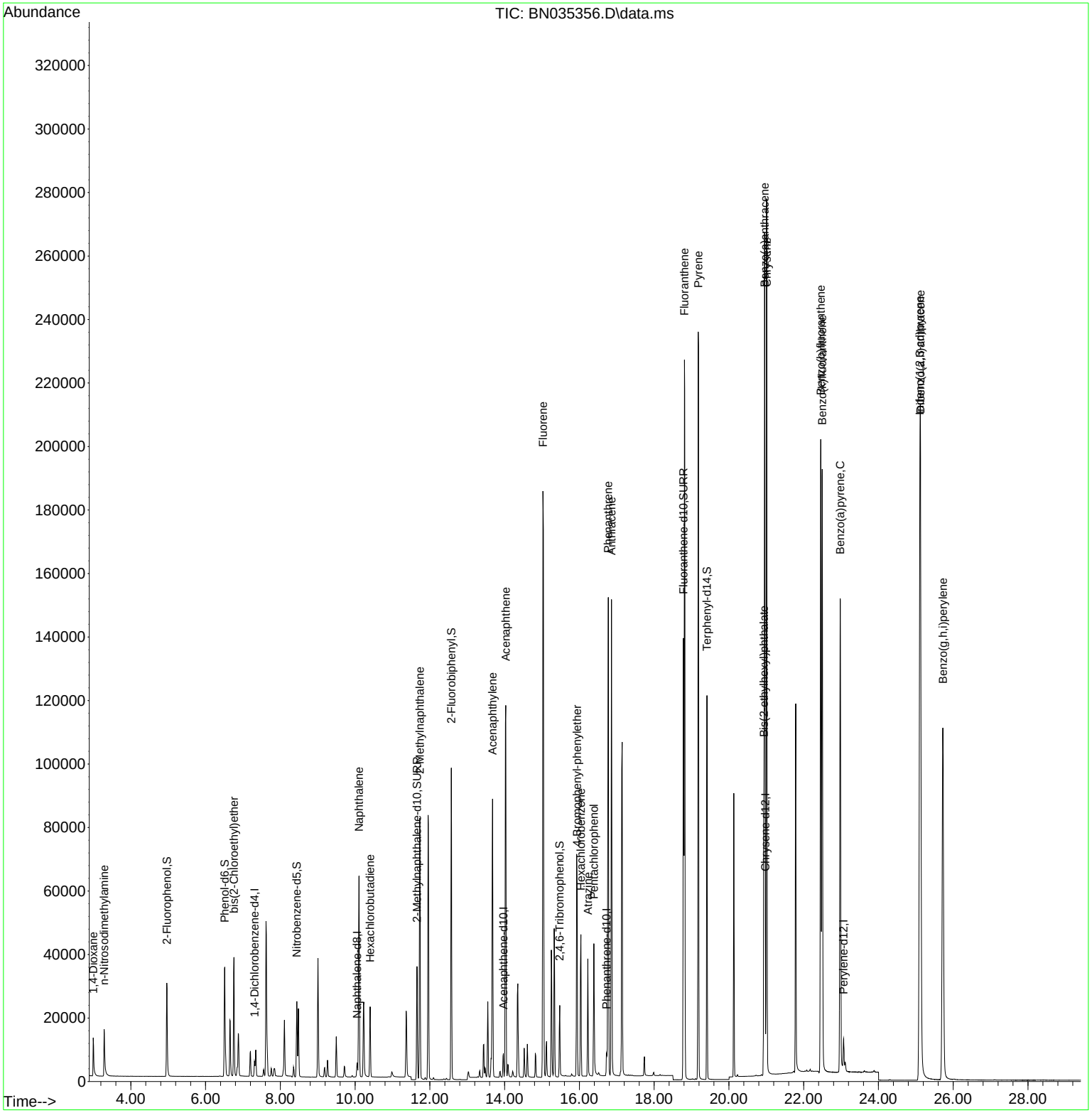
(#) = qualifier out of range (m) = manual integration (+) = signals summed

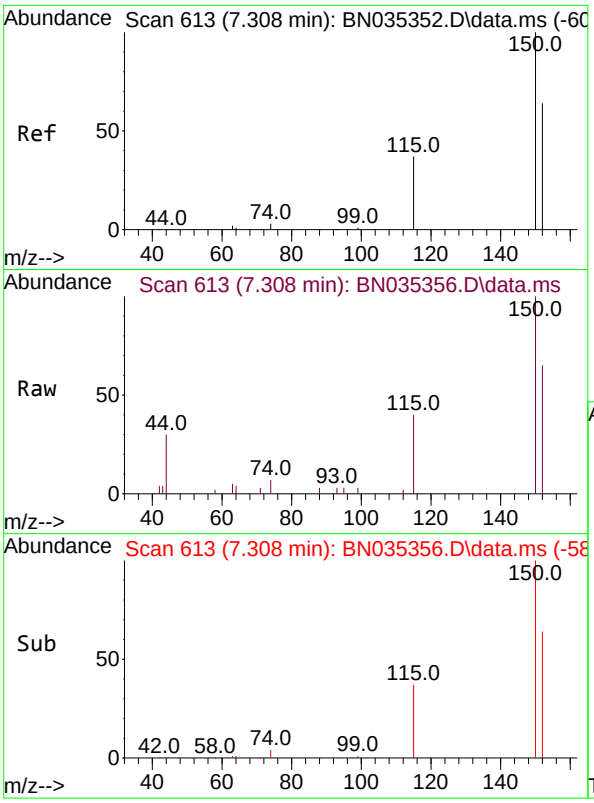
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



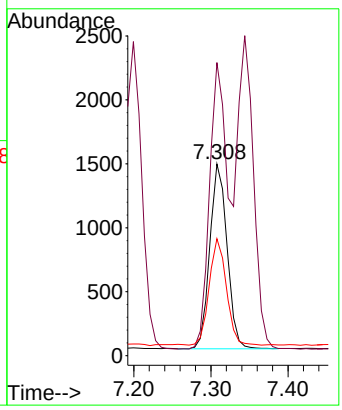


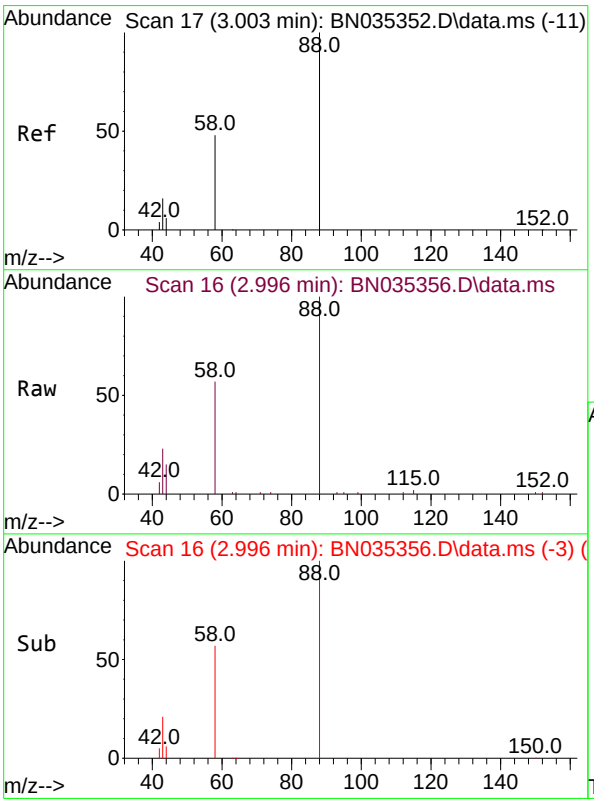
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2249

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.0	186.0
115	61.0	49.6	74.4

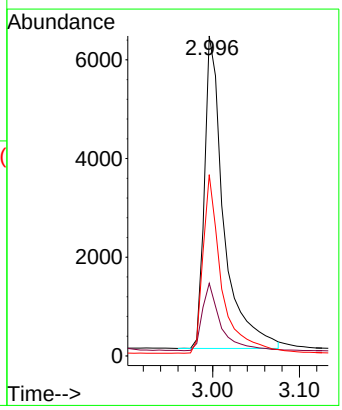


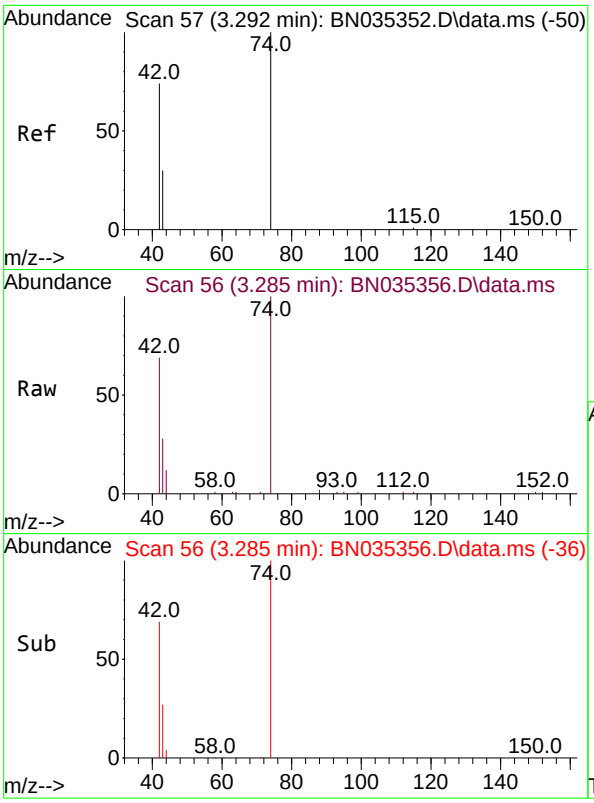


#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.8	44.5	66.7



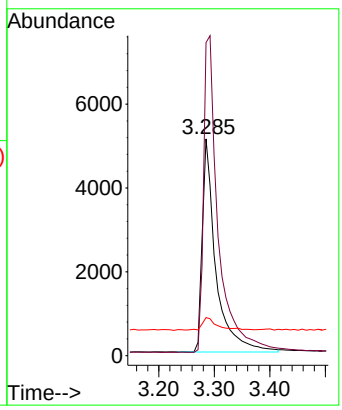


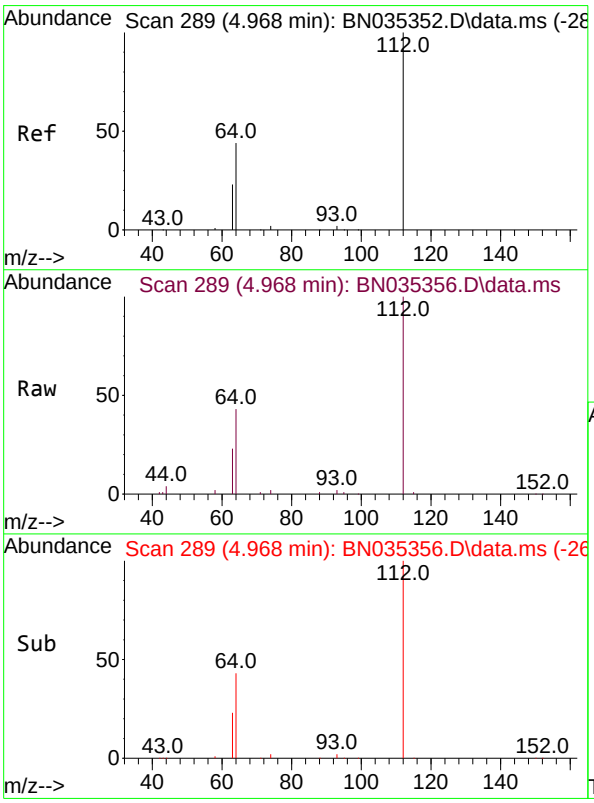
#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 8681

Ion	Ratio	Lower	Upper
42	100		
74	161.2	124.9	187.3
44	6.7	2.2	3.4#

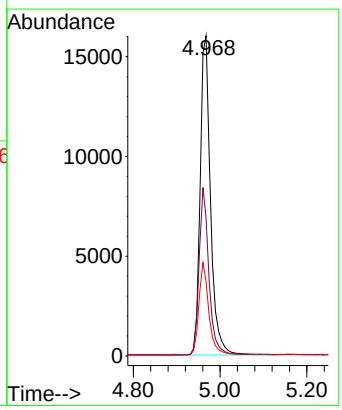


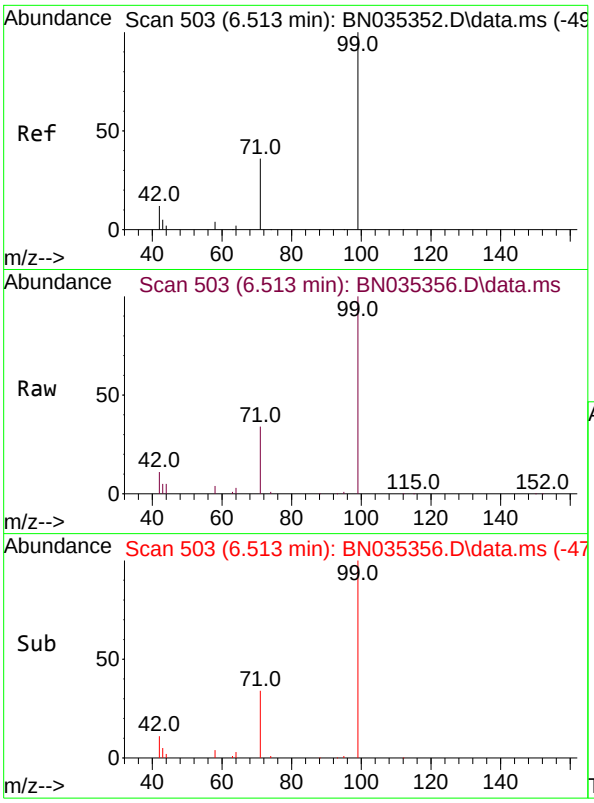


#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:112 Resp: 26472

Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.4	21.0	31.6



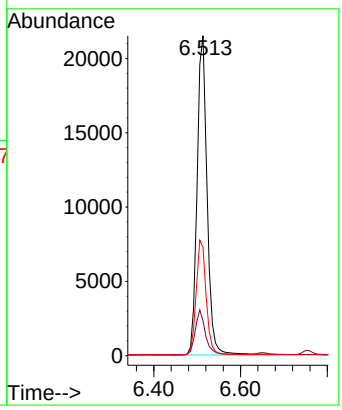


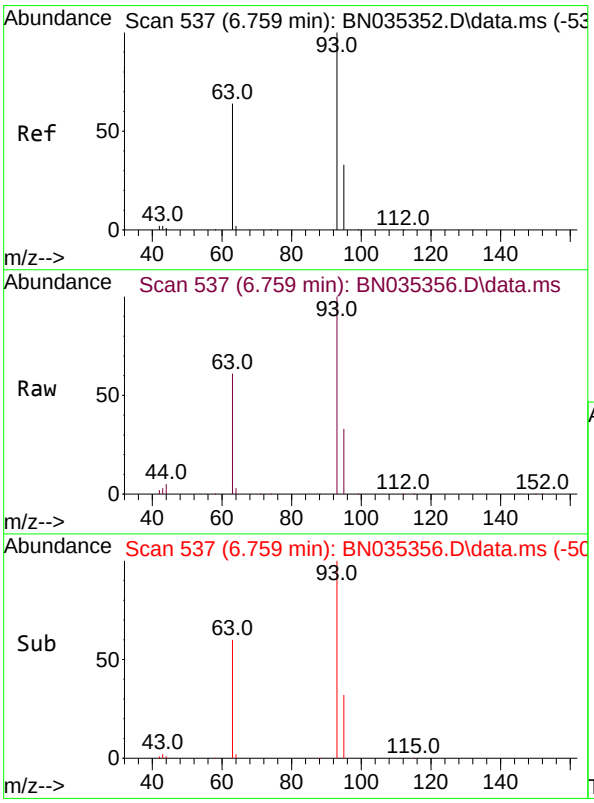
#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 34560

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.4	29.3	43.9

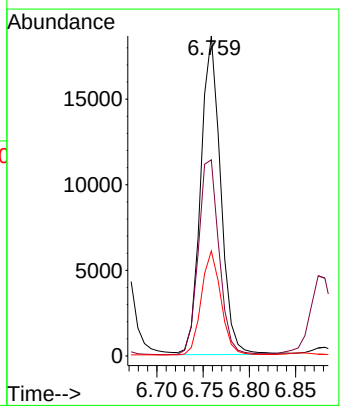


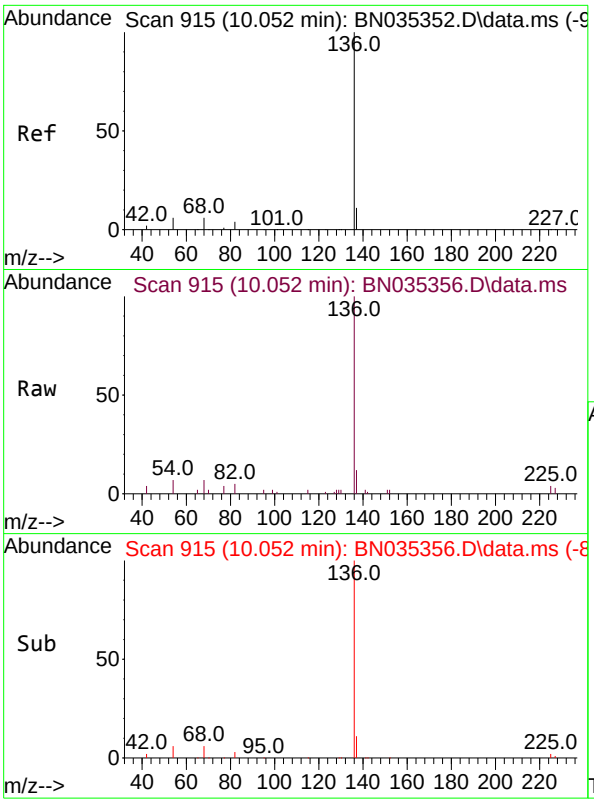


#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872

Ion	Ratio	Lower	Upper
93	100		
63	63.7	50.4	75.6
95	32.1	25.7	38.5



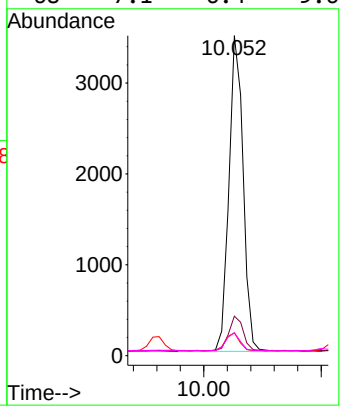


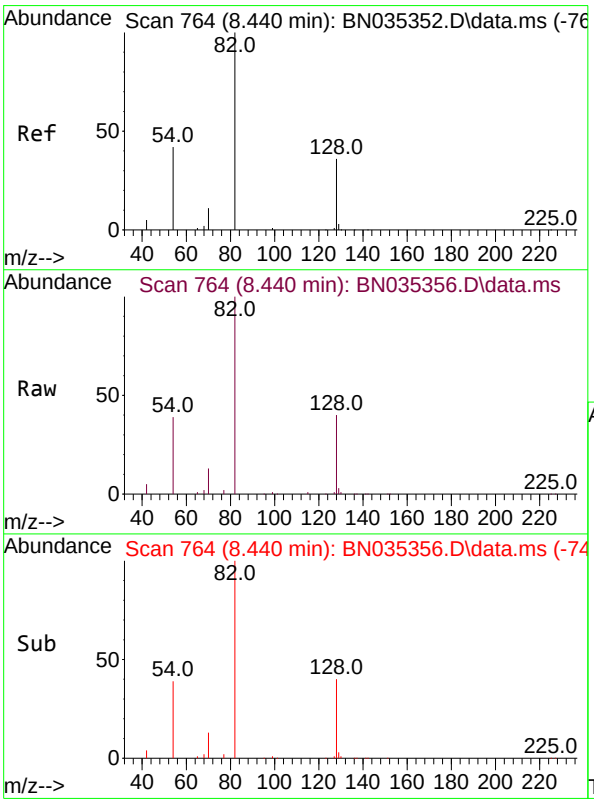
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5807

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6

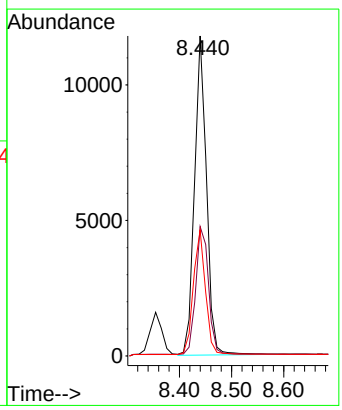


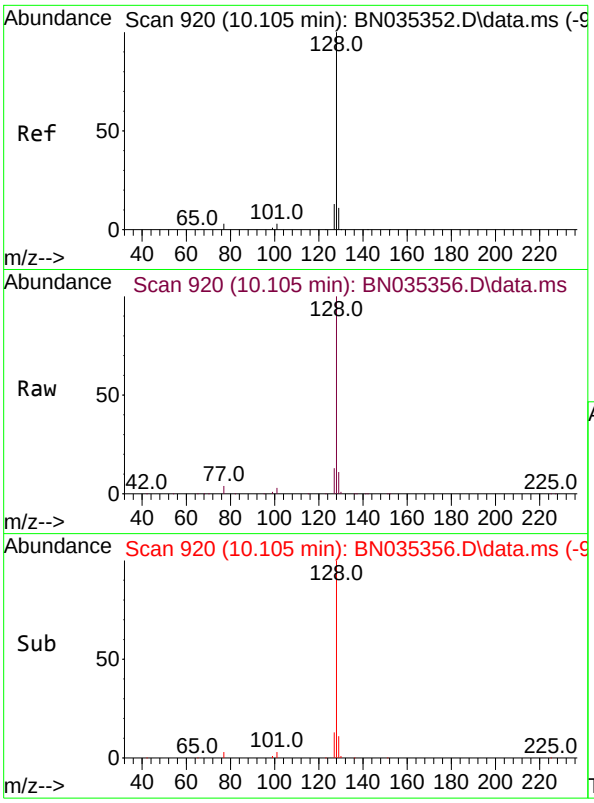


#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.4	50.0
54	39.4	36.7	55.1



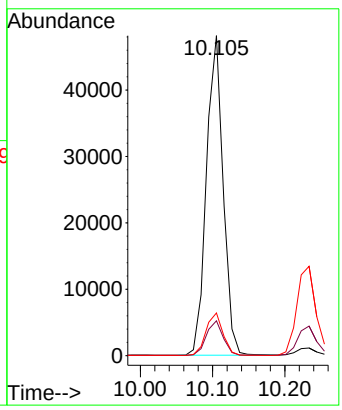


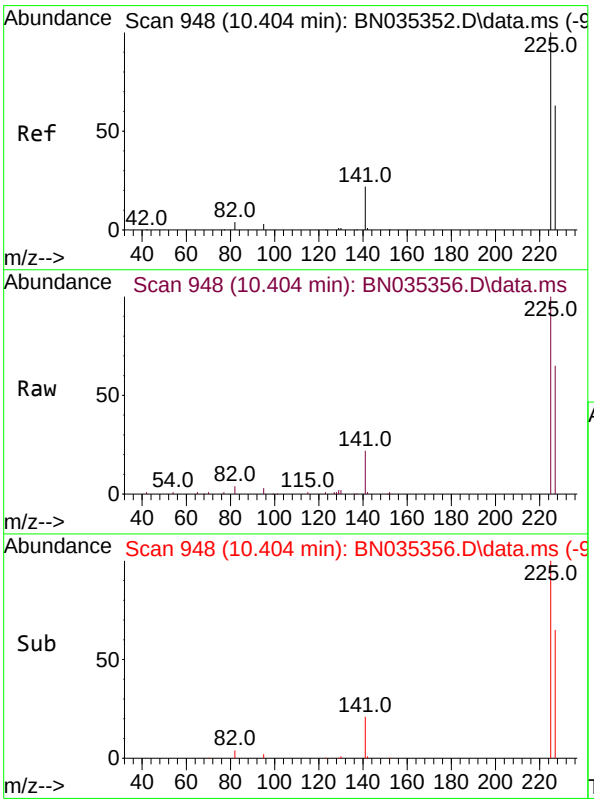
#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 77668

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.4	11.4	17.2

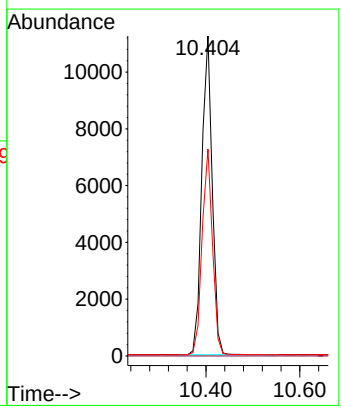


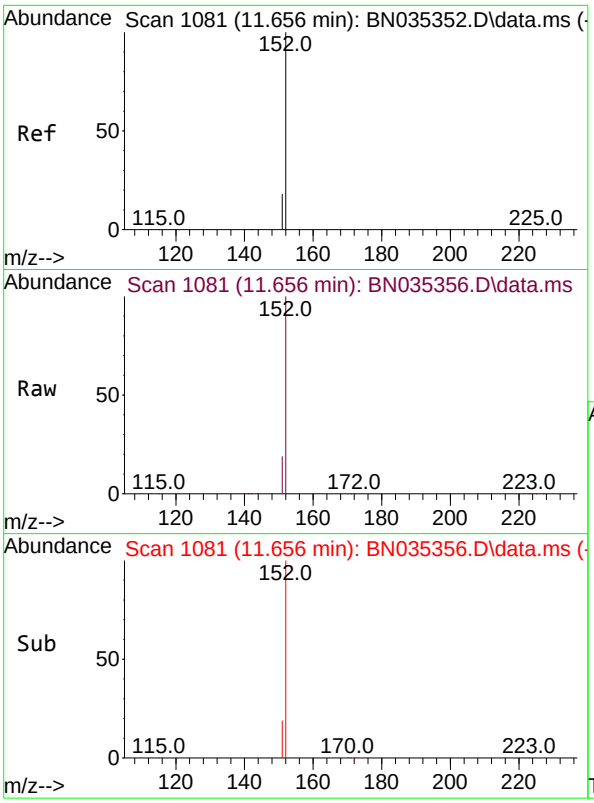


#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.3	76.9



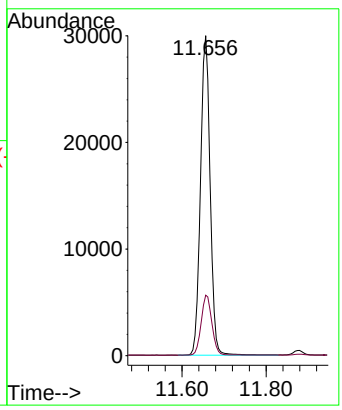


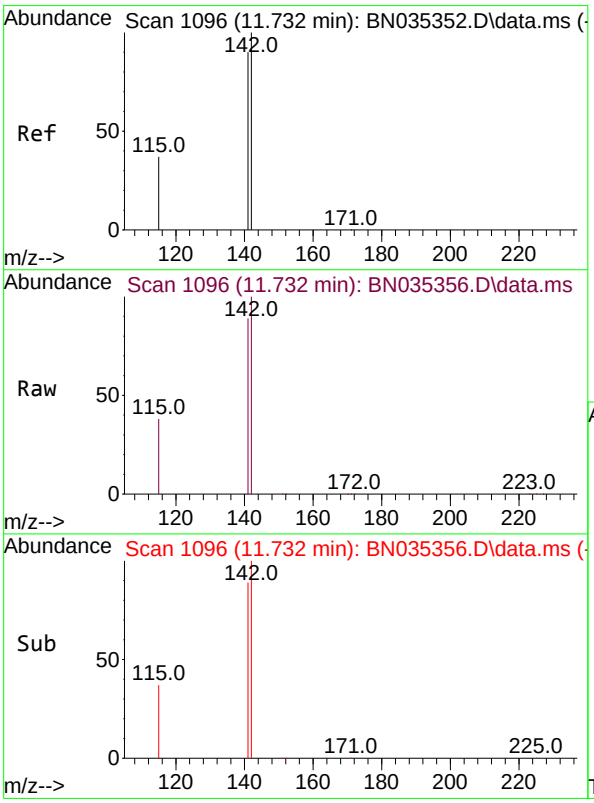
#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 47612

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

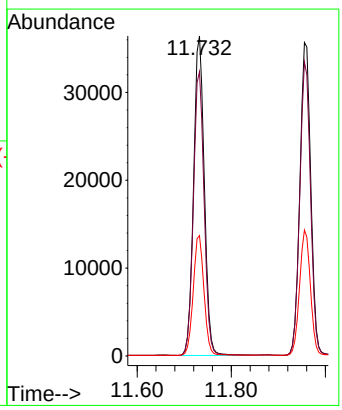


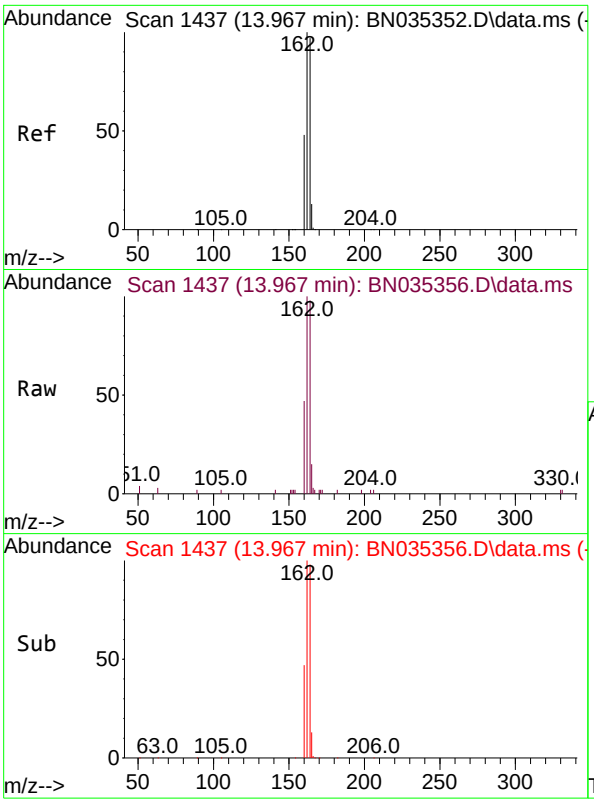


#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.6	31.4	47.0



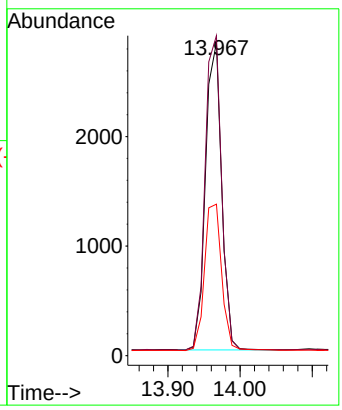


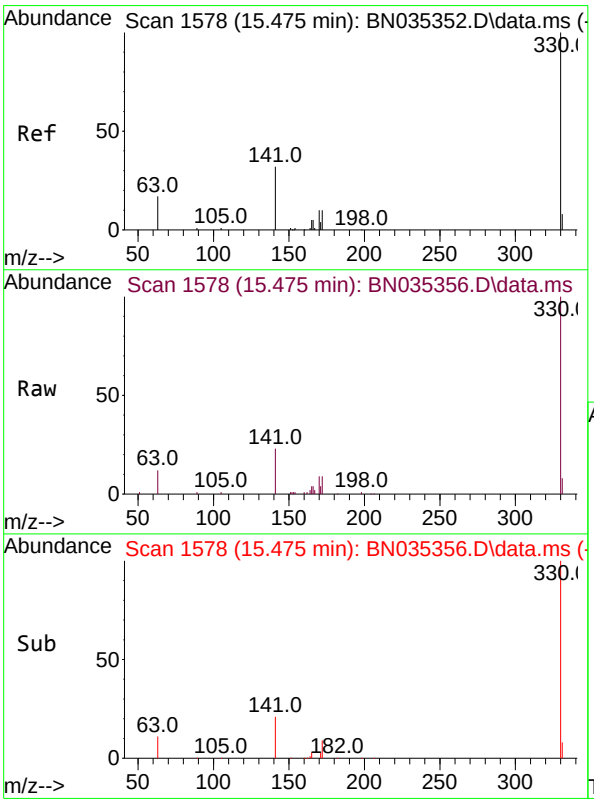
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4363

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1

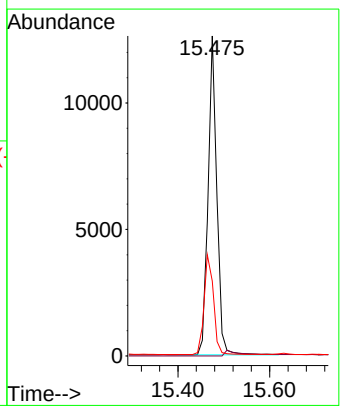


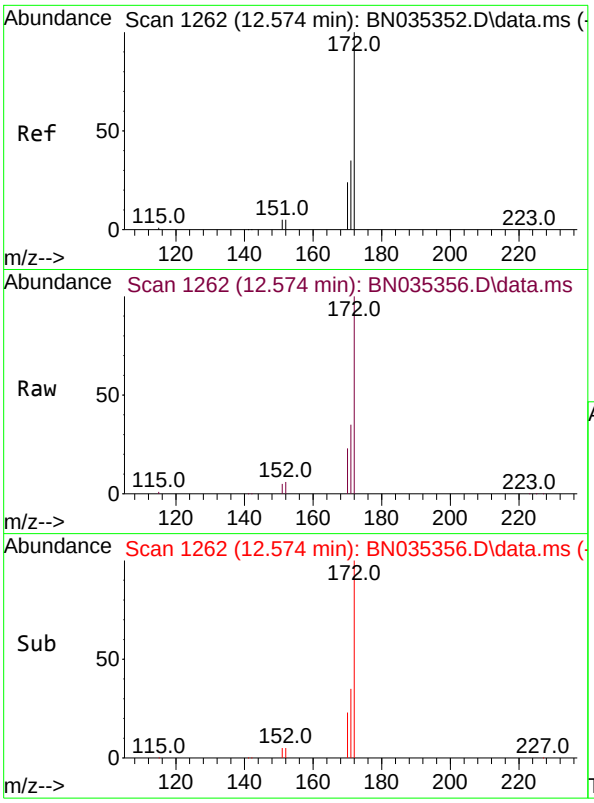


#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0



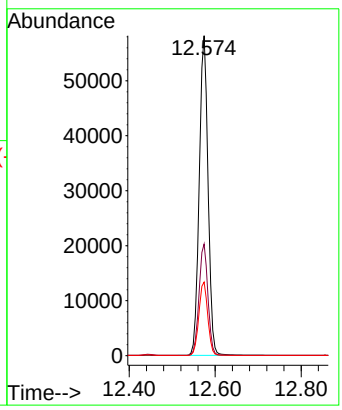


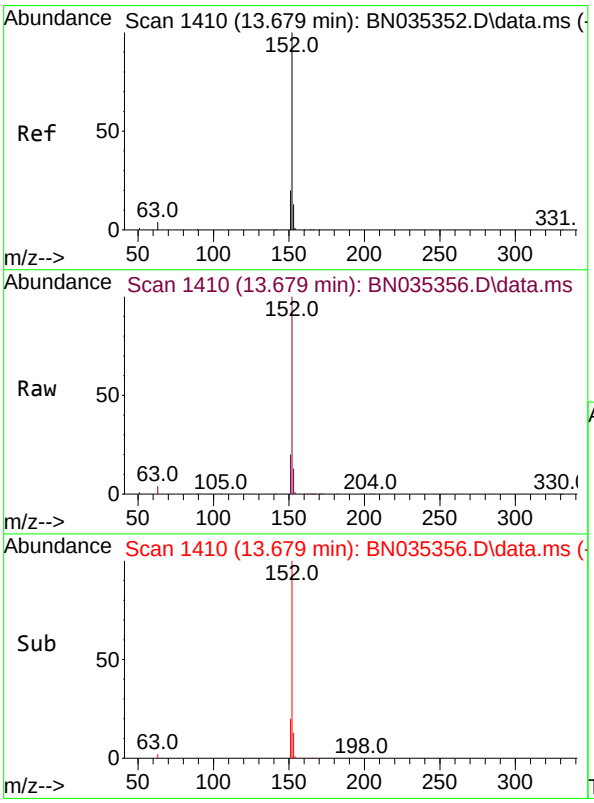
#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 82401

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.4
170	23.0	19.8	29.8

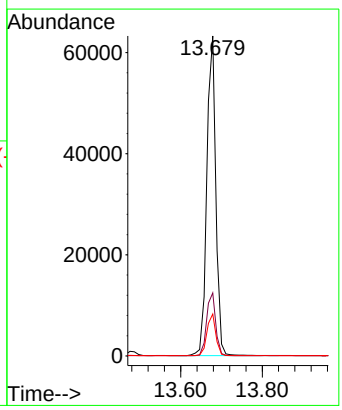


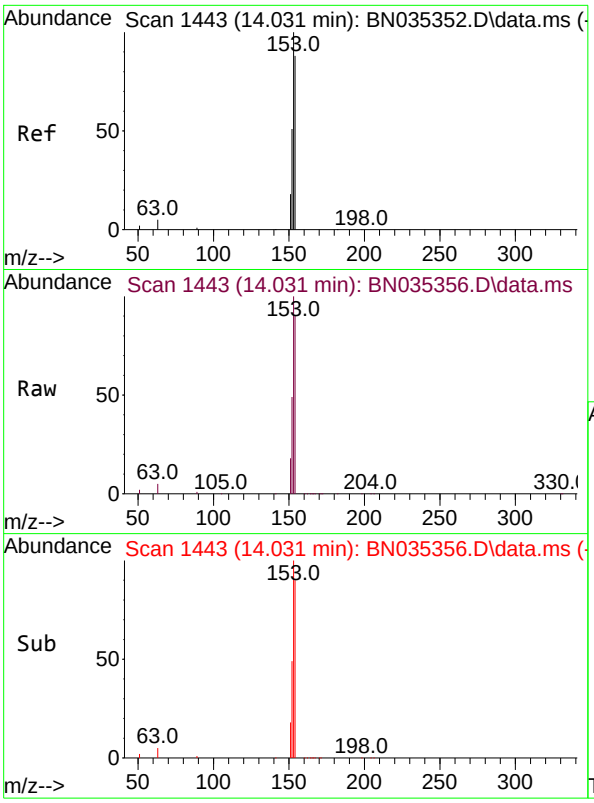


#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



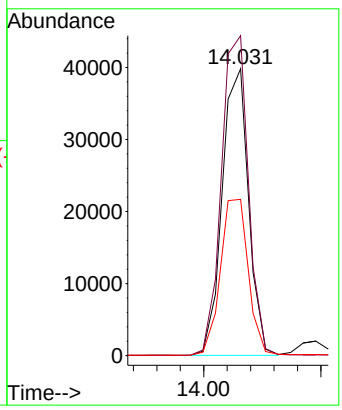


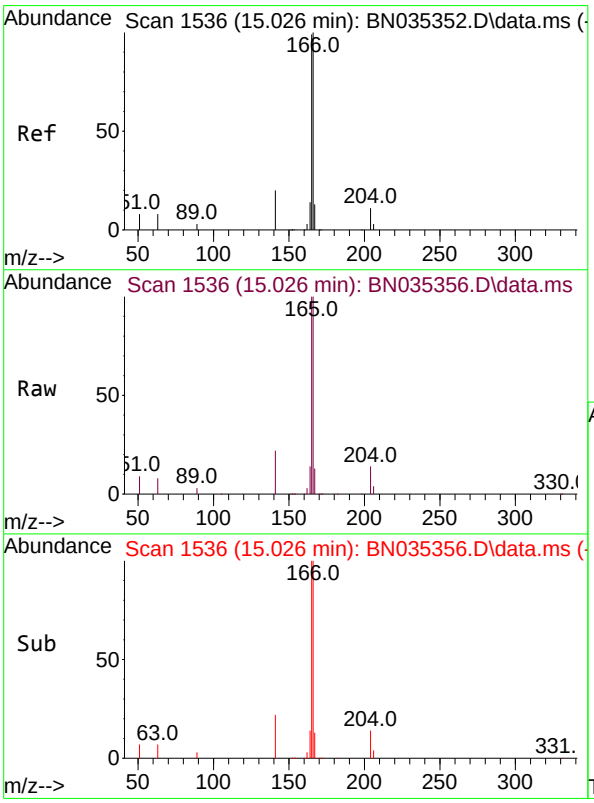
#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 62170

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.1	49.0	73.6

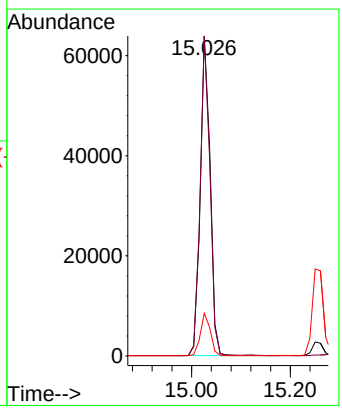


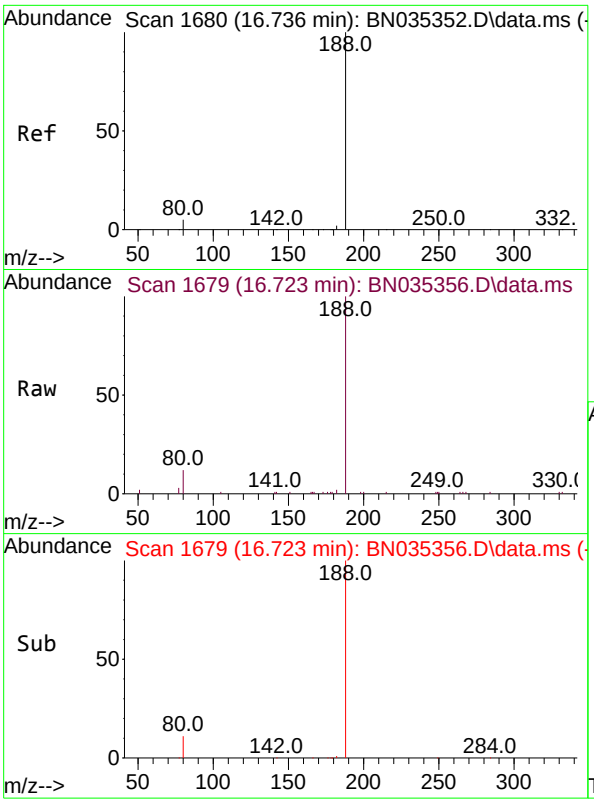


#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.4	10.8	16.2



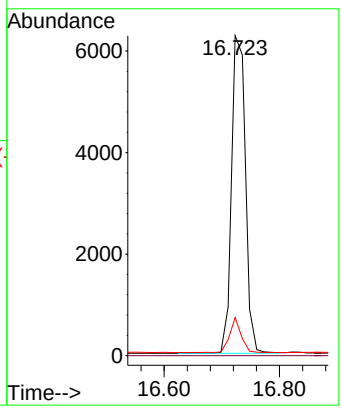


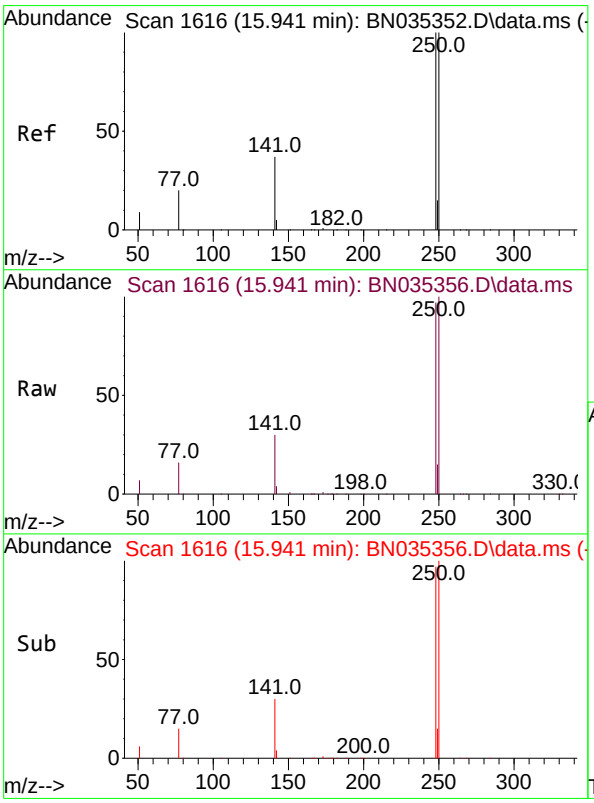
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 10479

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

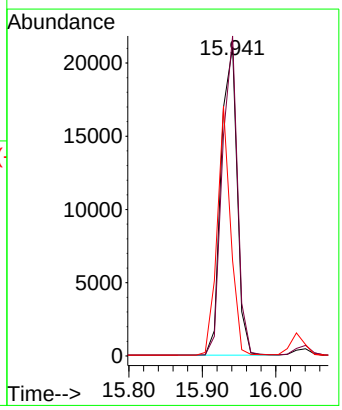


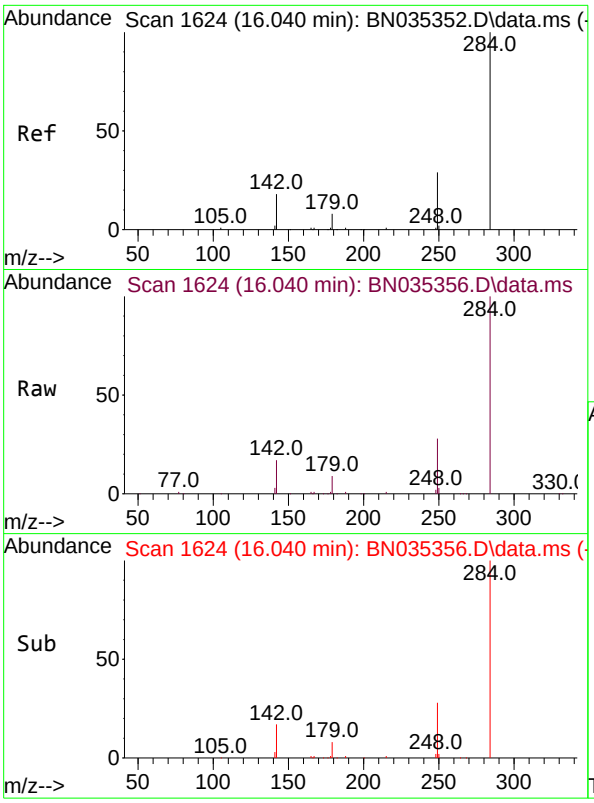


#21
4-Bromophenyl-phenylether
Concen: 4.785 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:248 Resp: 31947

Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.6	120.8
141	30.8	31.5	47.3#



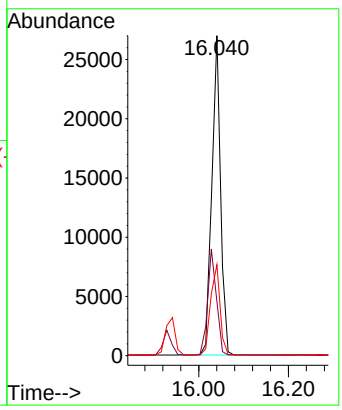


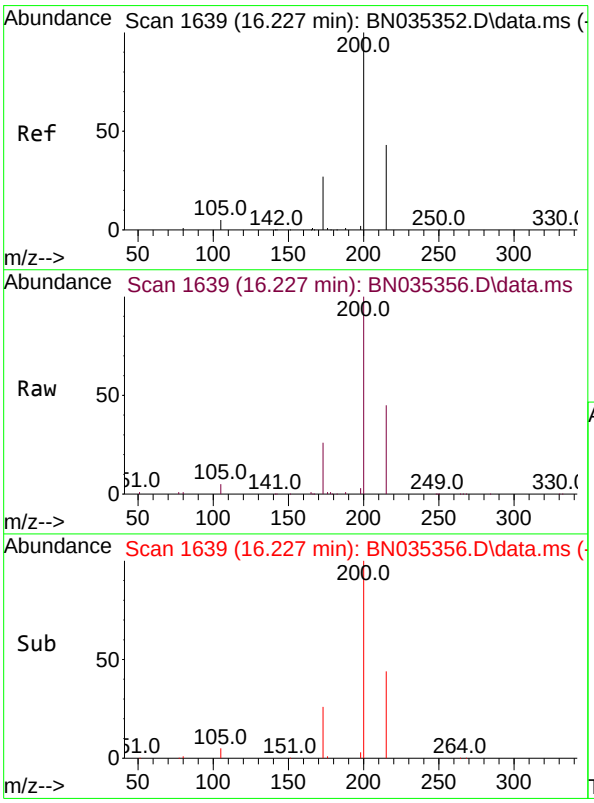
#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 36315

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8

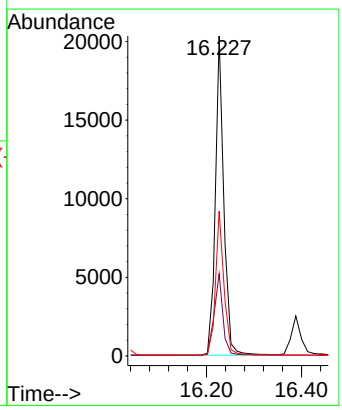


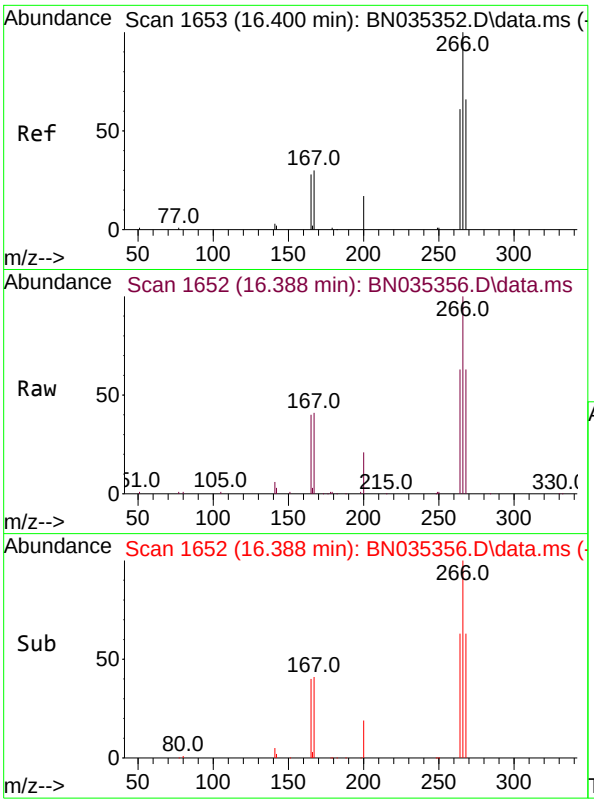


#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034

Ion	Ratio	Lower	Upper
200	100		
173	25.7	24.1	36.1
215	45.2	36.9	55.3



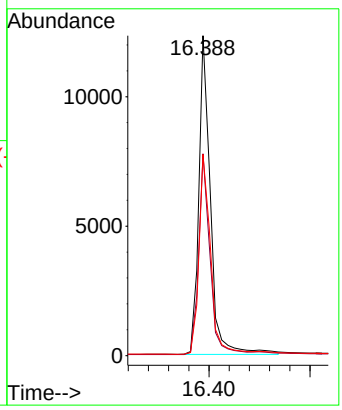


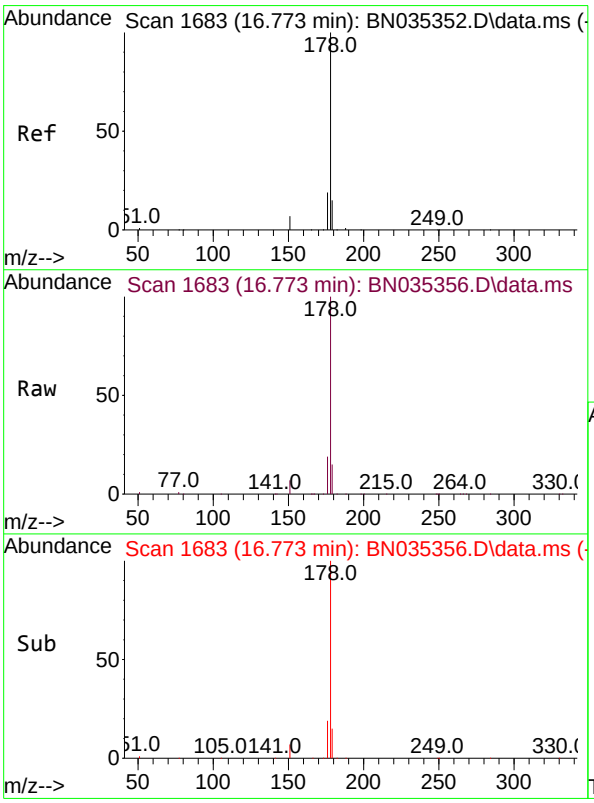
#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 19691

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.1	43.3	64.9

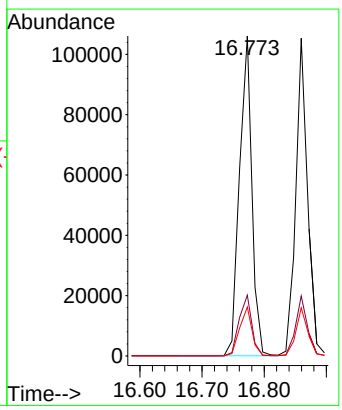


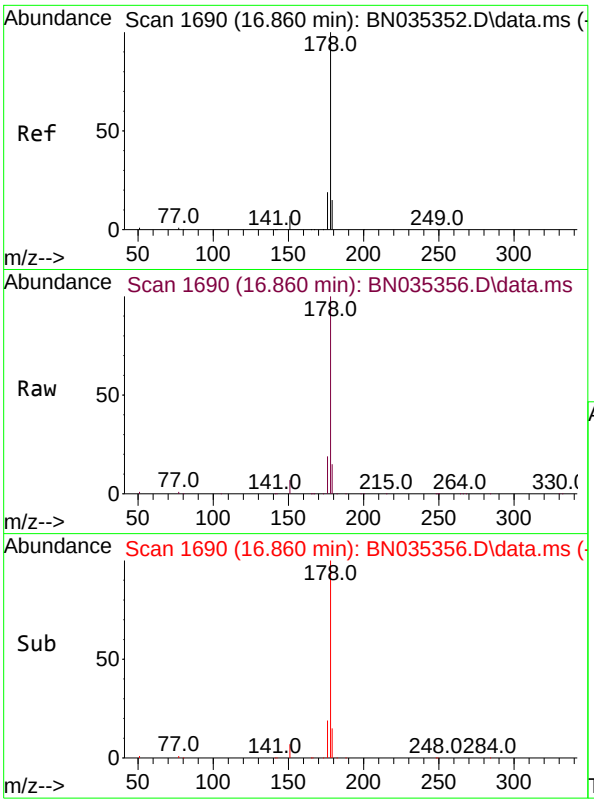


#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:178 Resp: 147357

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.2	12.3	18.5



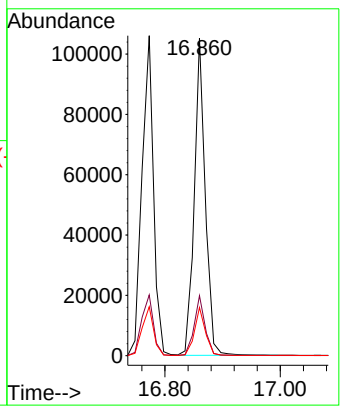


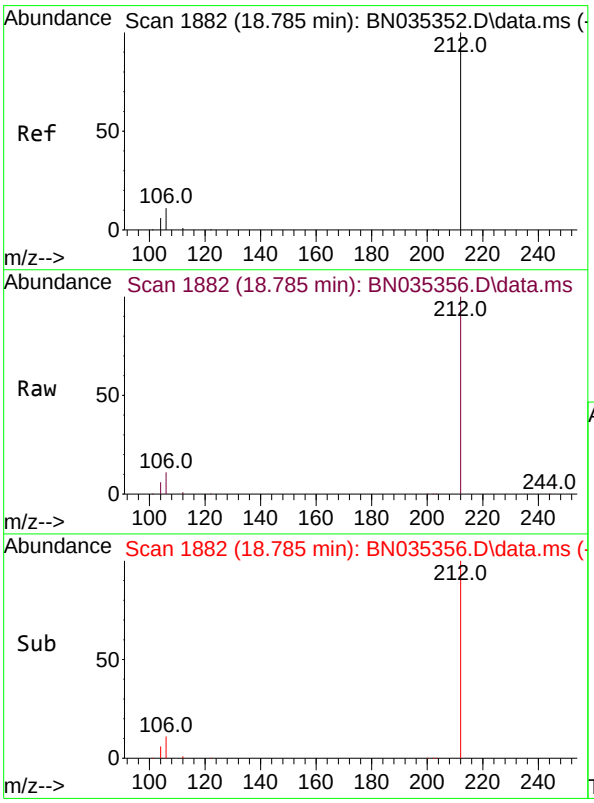
#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 139399

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.1	12.6	18.8

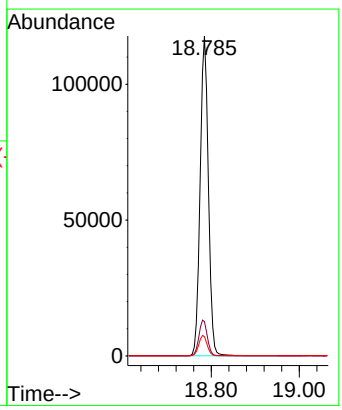


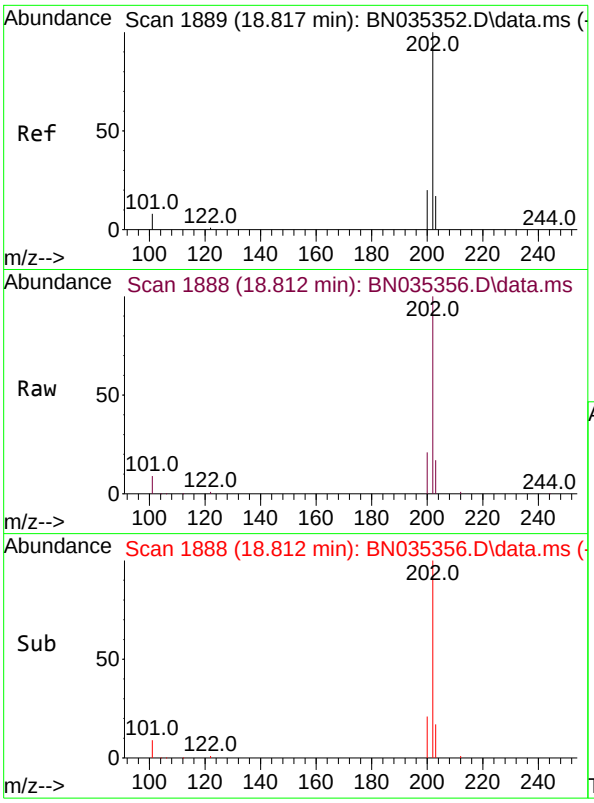


#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.5	5.3	7.9



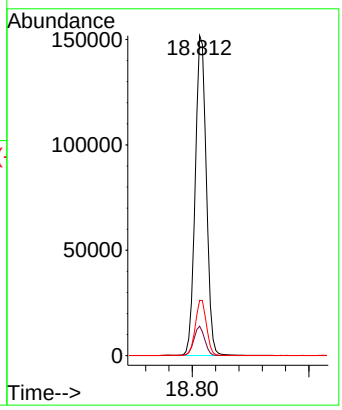


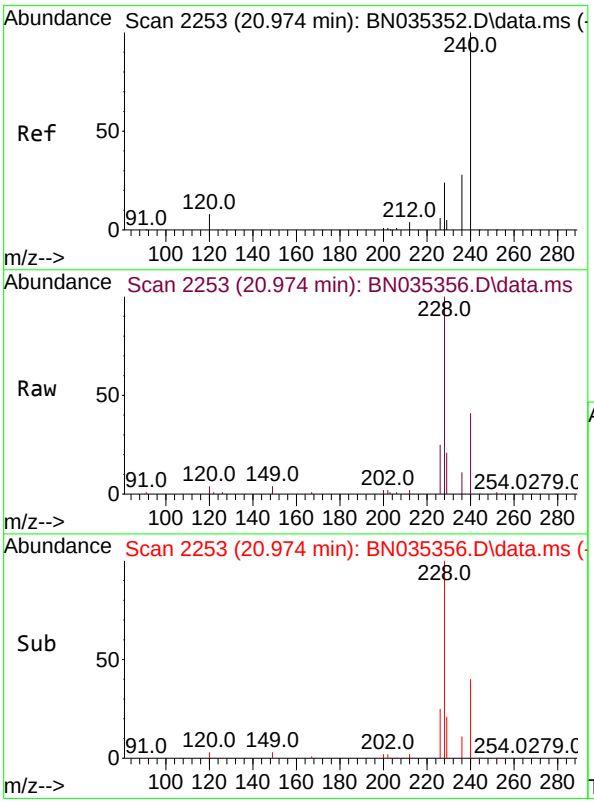
#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 199850

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.4	13.7	20.5

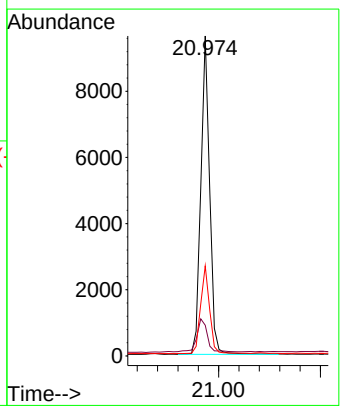


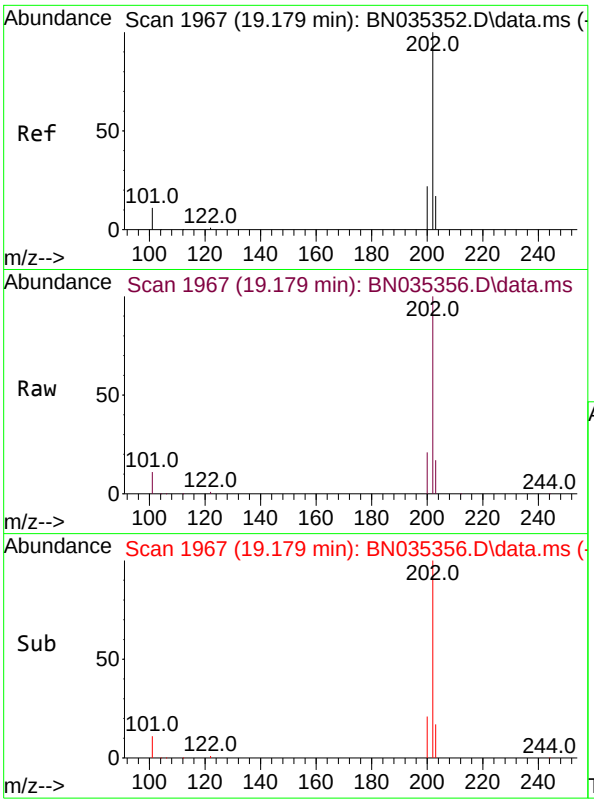


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	28.1	22.9	34.3



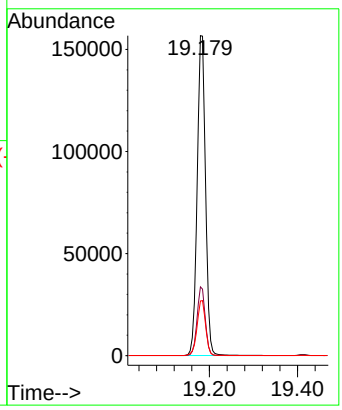


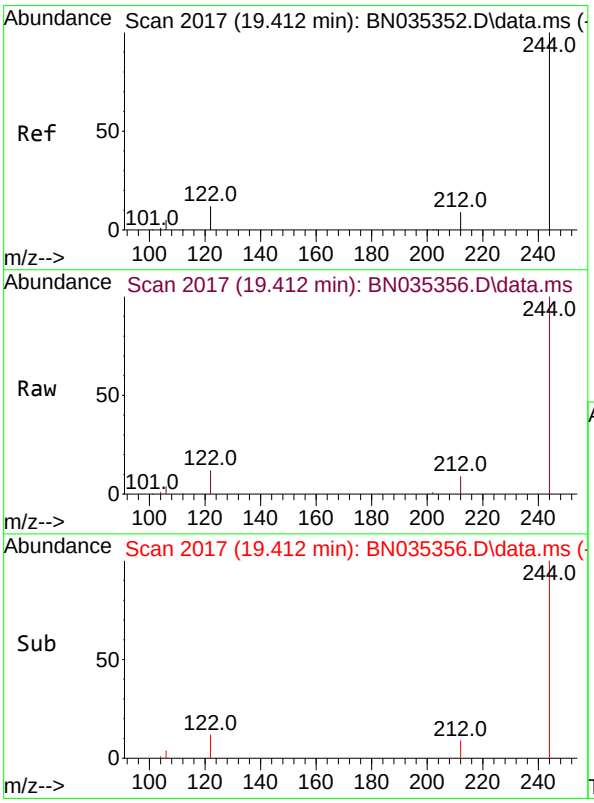
#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 206018

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

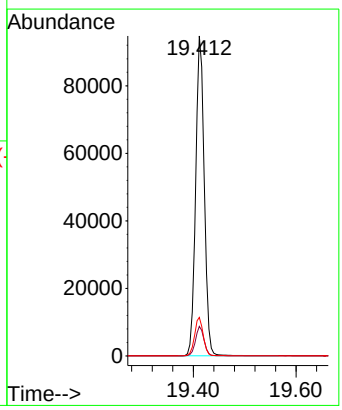


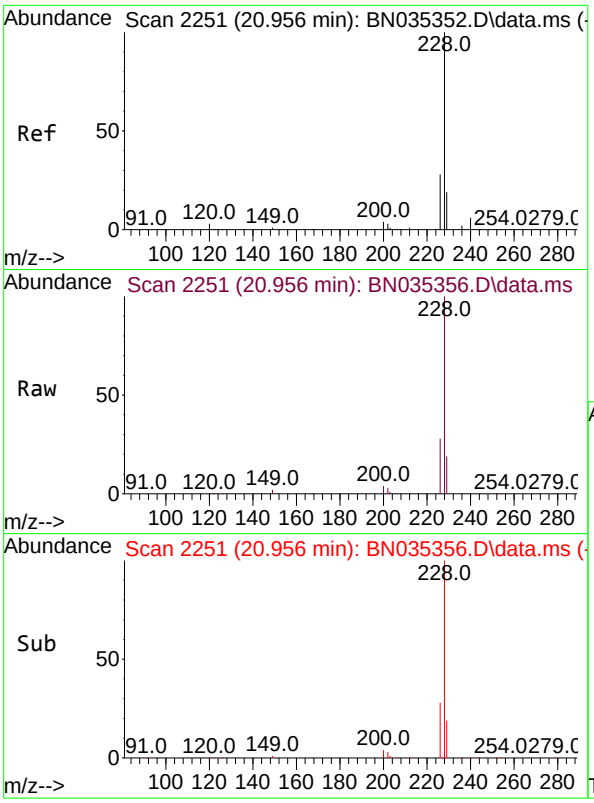


#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.1	10.3	15.5



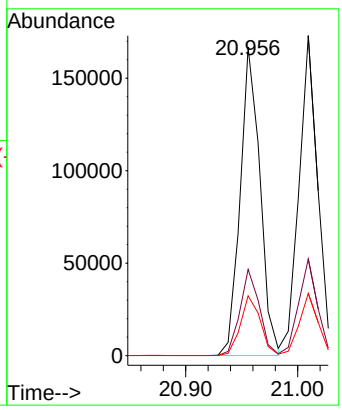


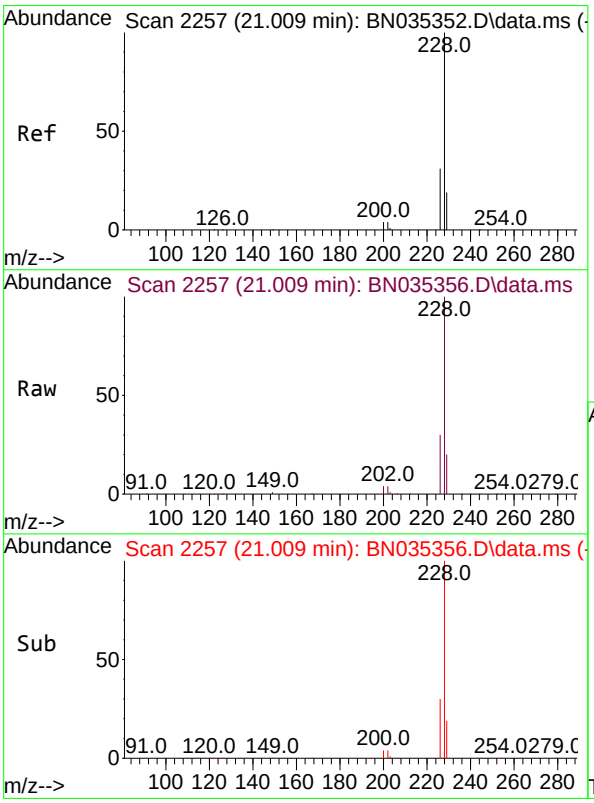
#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 205712

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.4	15.8	23.8

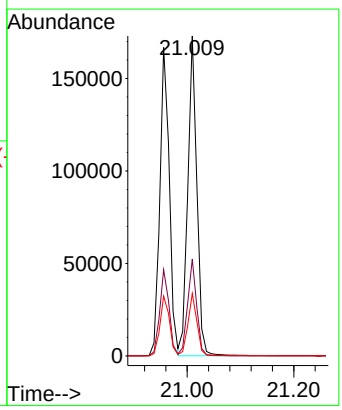


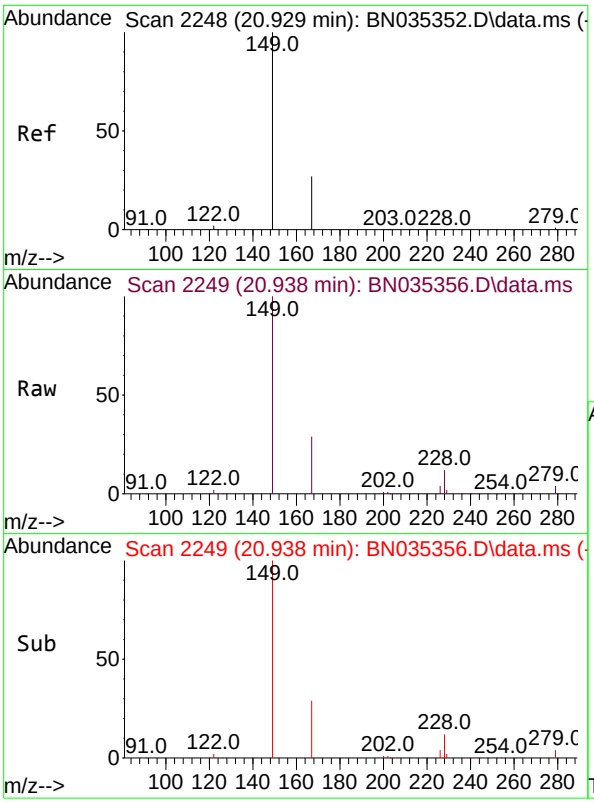


#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.5	15.9	23.9



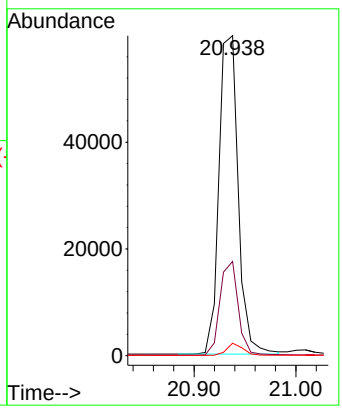


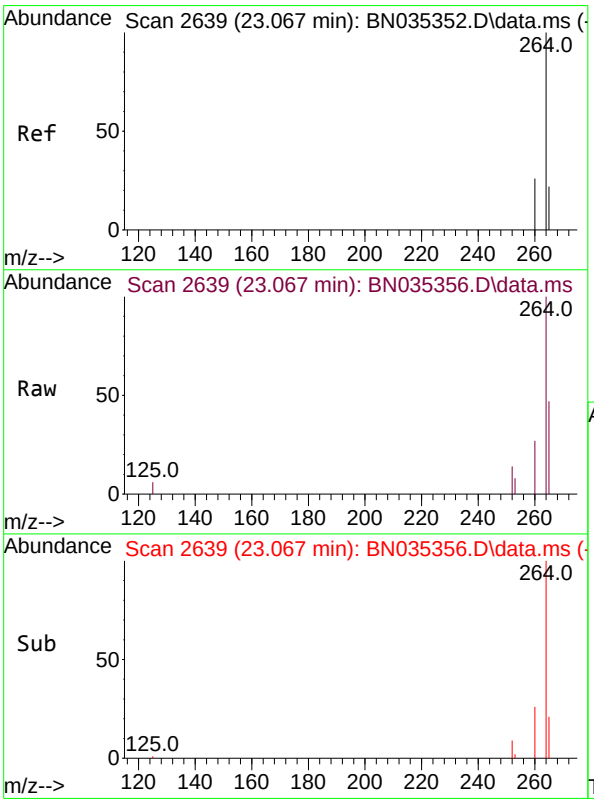
#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 78322

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.2	2.7	4.1

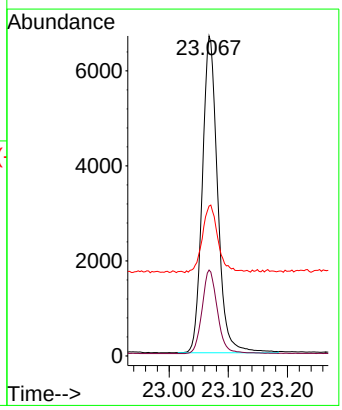


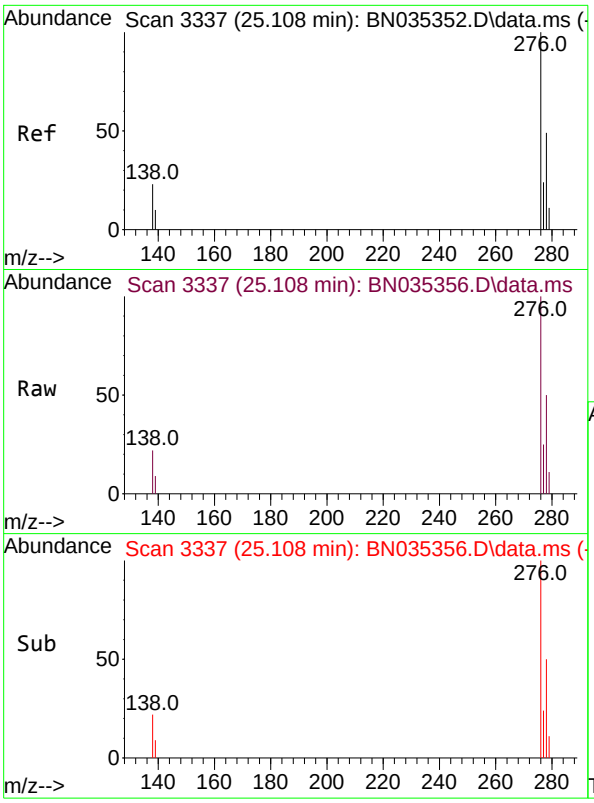


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	46.8	40.2	60.4



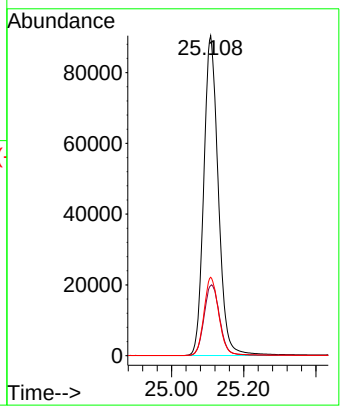


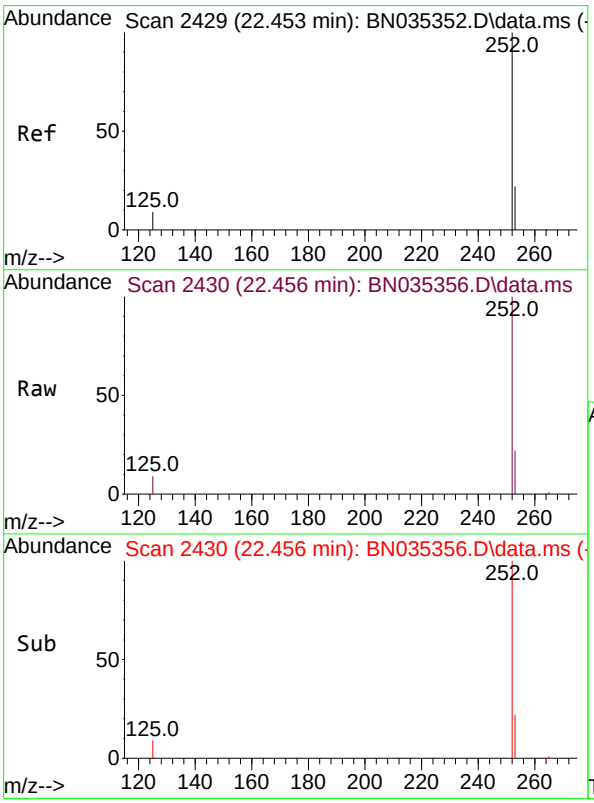
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 252709

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.0	19.8	29.6

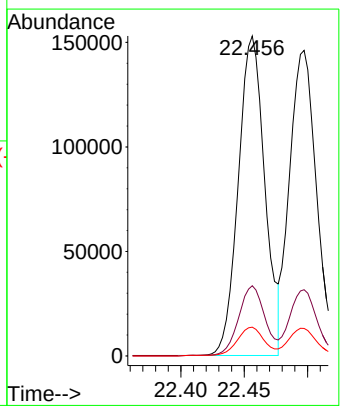


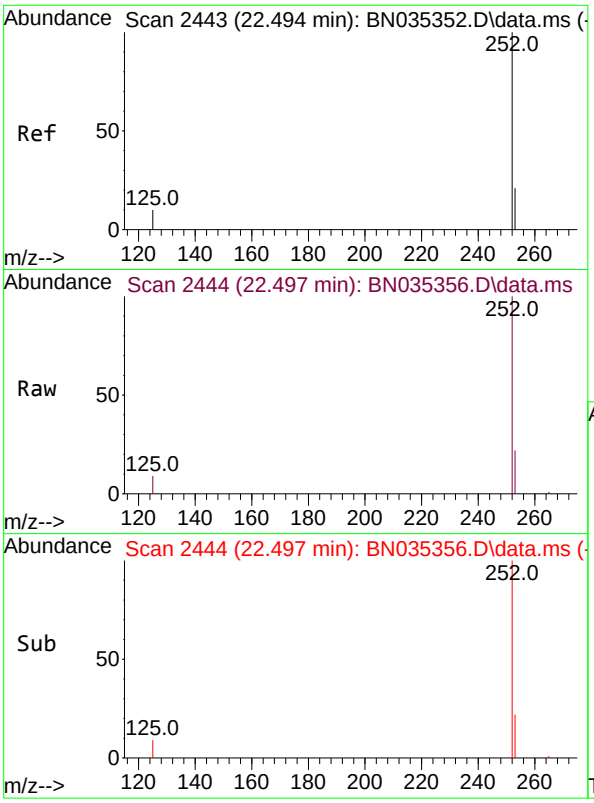


#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 241201

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



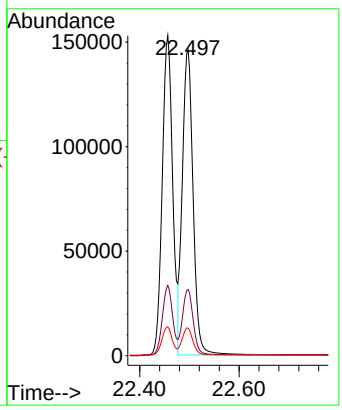


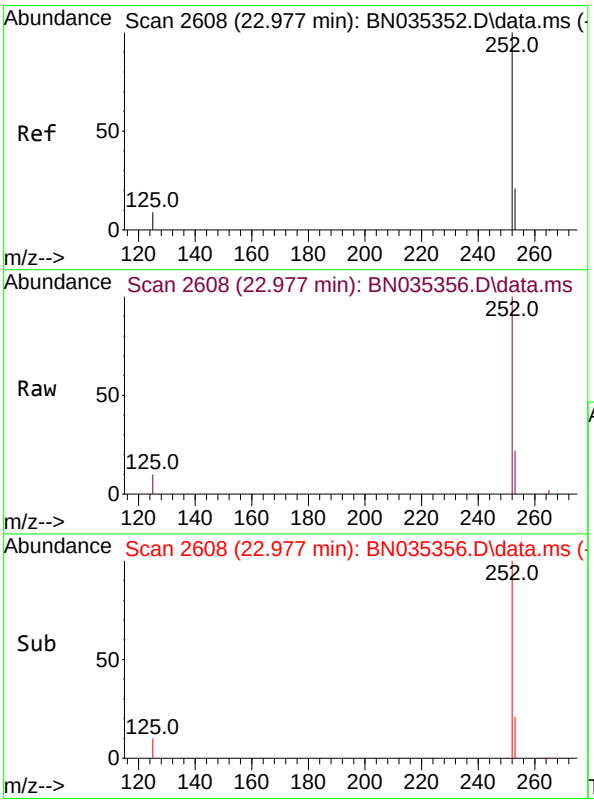
#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 220146

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.5	29.3
125	9.0	10.2	15.4#

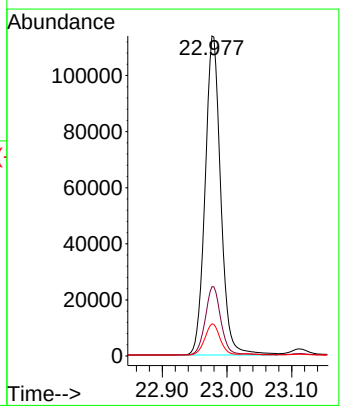


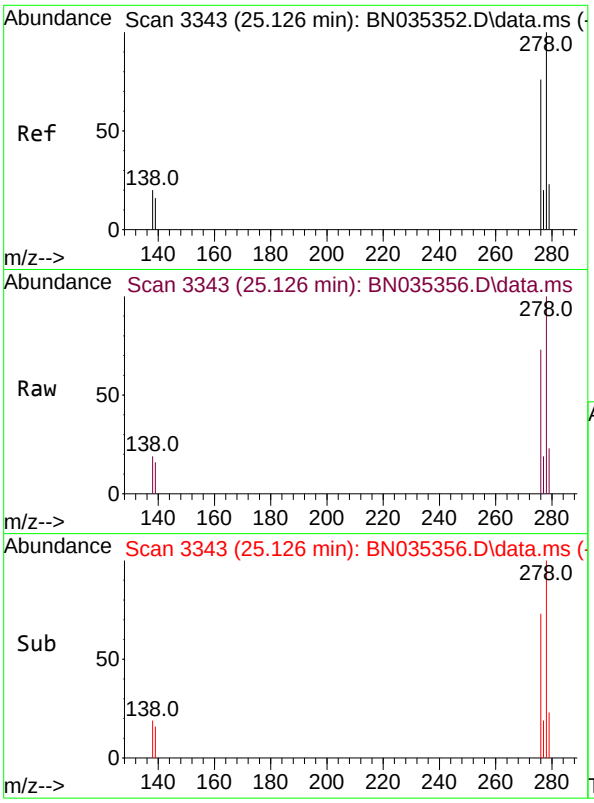


#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665

Ion	Ratio	Lower	Upper
252	100		
253	21.6	20.2	30.4
125	10.0	10.9	16.3#



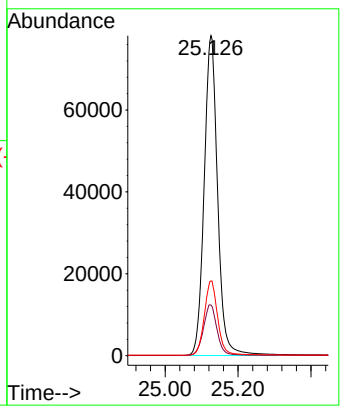


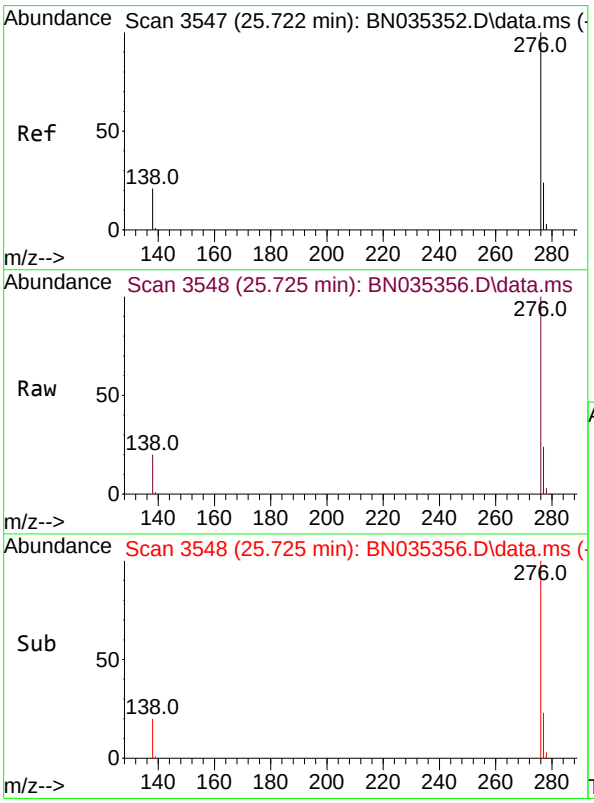
#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 199852

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.2	21.4
279	23.3	20.5	30.7

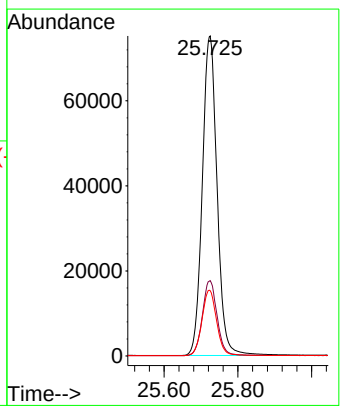




#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:276 Resp: 209119

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.9	29.9
138	20.4	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	264	8338	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1280	0.332	ng	0.00
5) Phenol-d6	6.513	99	1437	0.310	ng	0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng	0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng	0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng	99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	# 88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng	99
9) Naphthalene	10.105	128	4364	0.424	ng	99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng	98
16) Acenaphthylene	13.679	152	5261	0.435	ng	100
17) Acenaphthene	14.031	154	3421	0.426	ng	99
18) Fluorene	15.026	166	4825	0.420	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	# 86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng	99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng	99
23) Atrazine	16.227	200	1227	0.401	ng	99
24) Pentachlorophenol	16.400	266	662	0.301	ng	# 83
25) Phenanthrene	16.773	178	8509	0.421	ng	100
26) Anthracene	16.860	178	7849	0.430	ng	100
28) Fluoranthene	18.812	202	10941	0.402	ng	100
30) Pyrene	19.179	202	11476	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng	100
33) Chrysene	21.009	228	11926	0.436	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng	99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng	99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng	99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng	100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng	99

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

ICAL Form

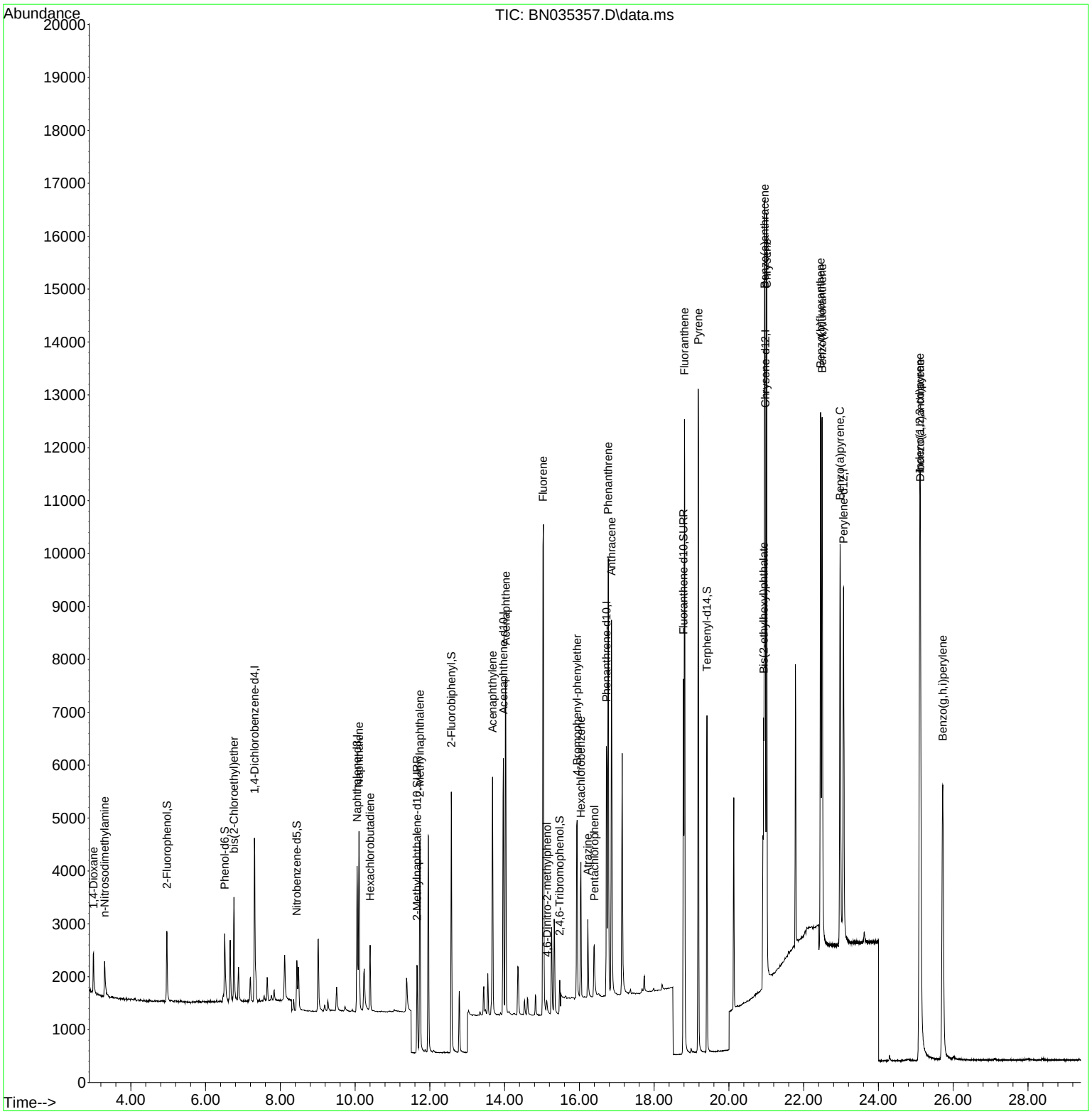
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

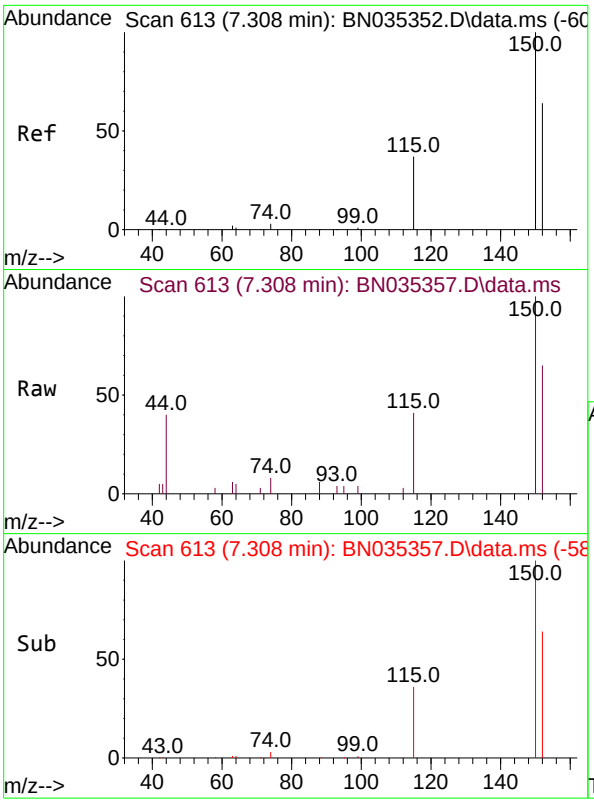
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

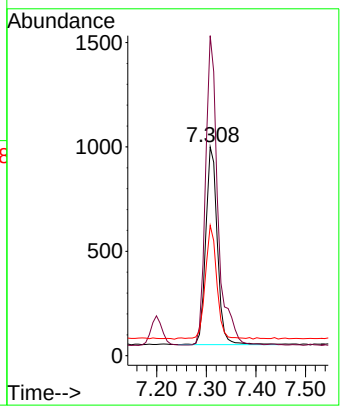




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 154

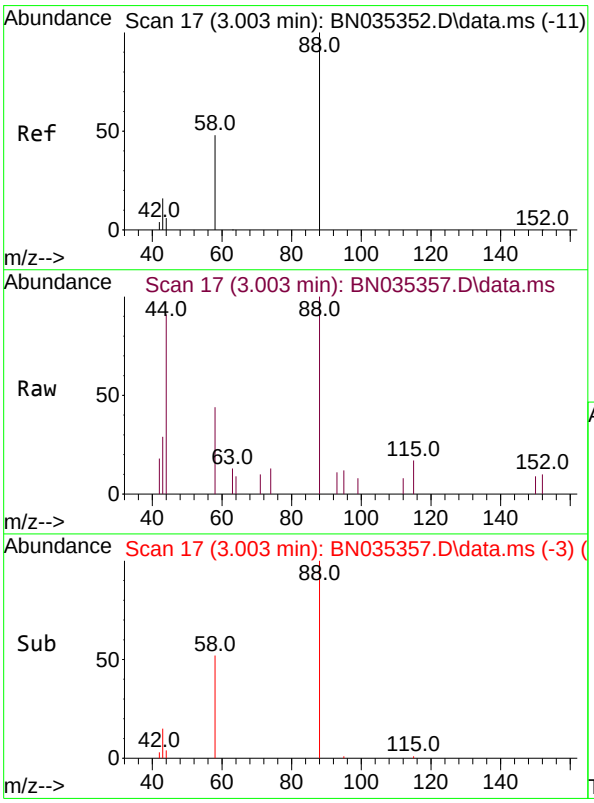
Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

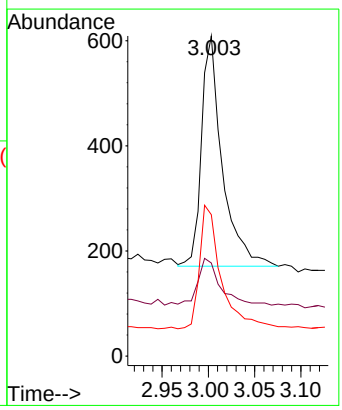
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

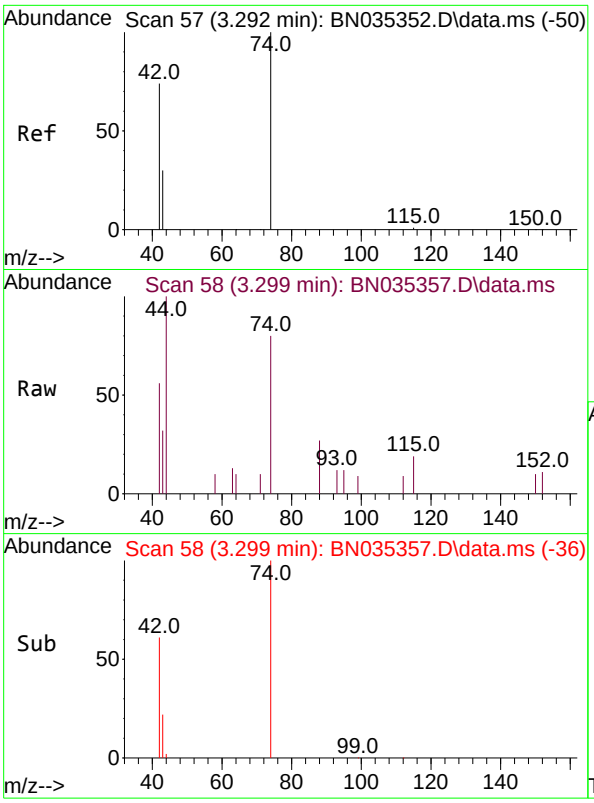


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7

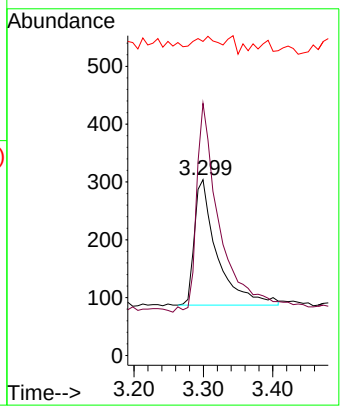




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 42 Resp: 49

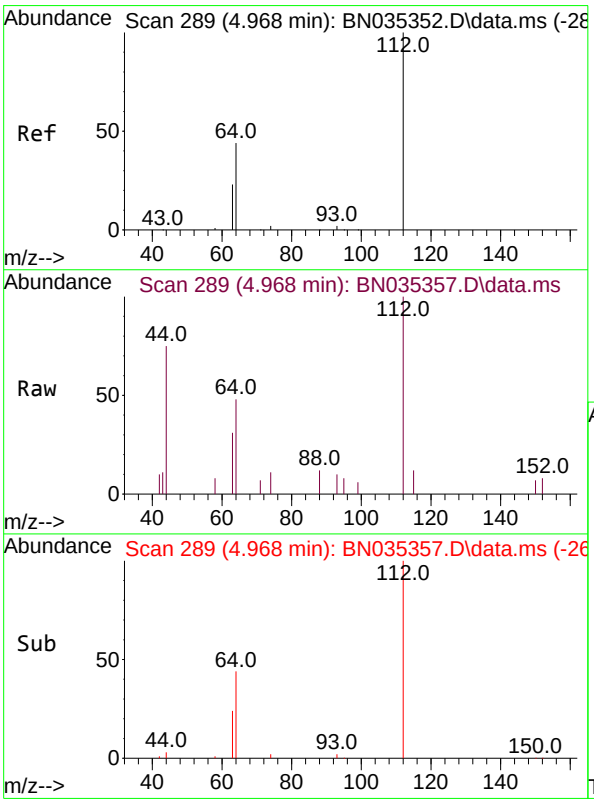
Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

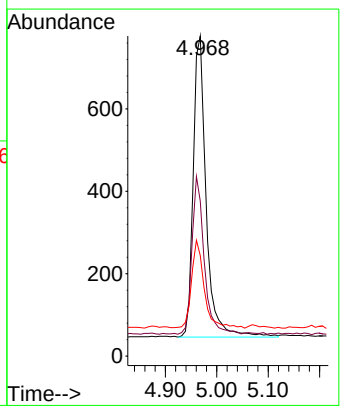
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

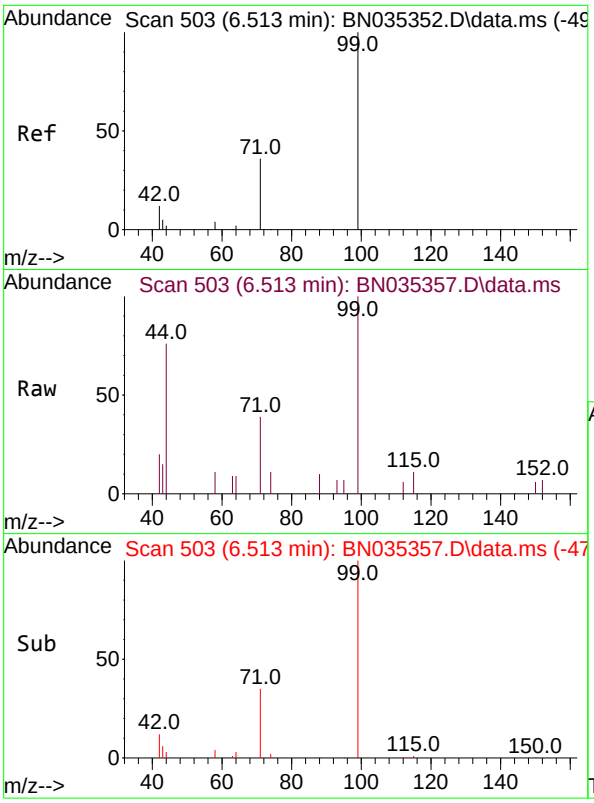


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6

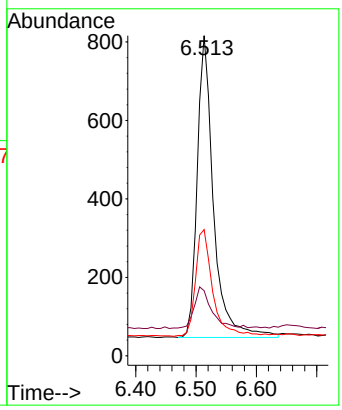




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 99 Resp: 143

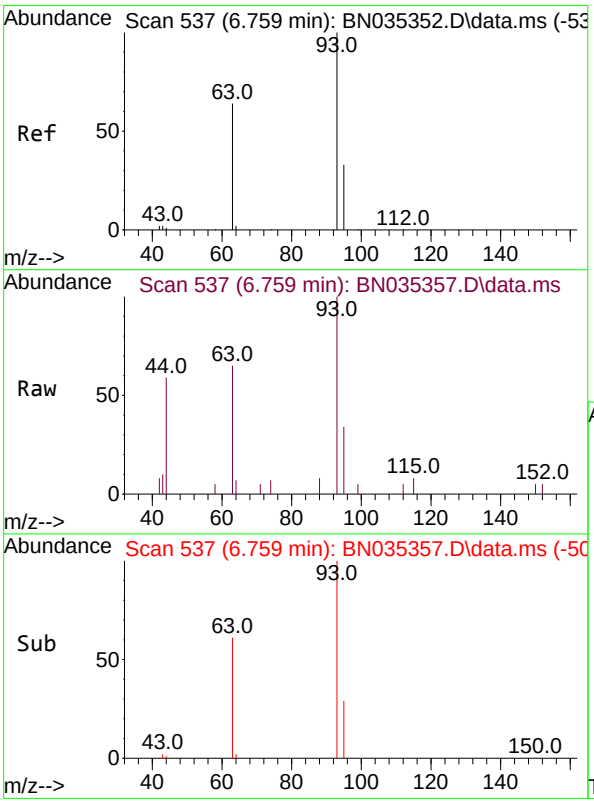
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

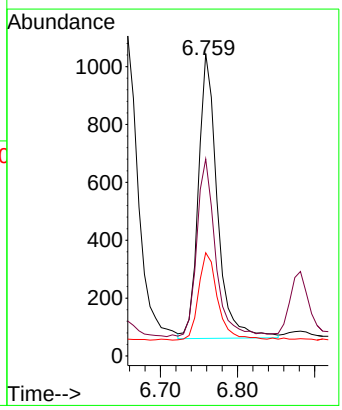
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

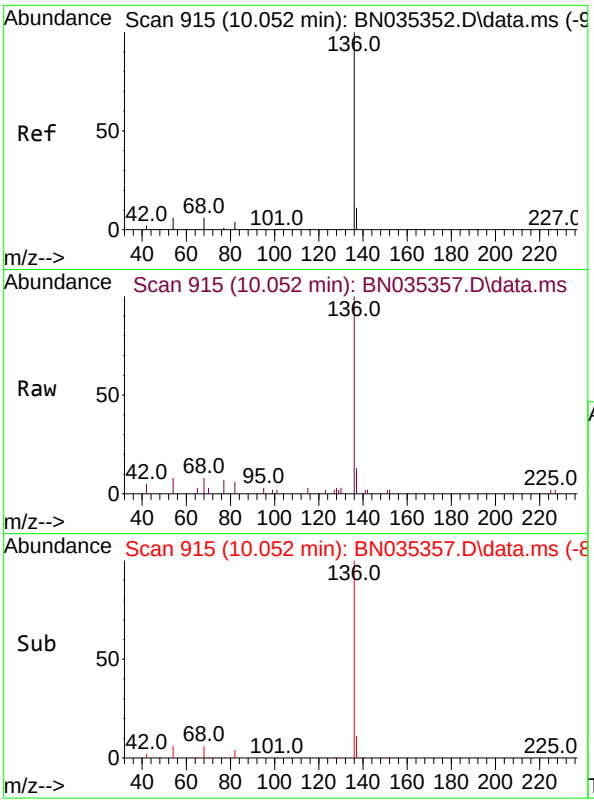


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5

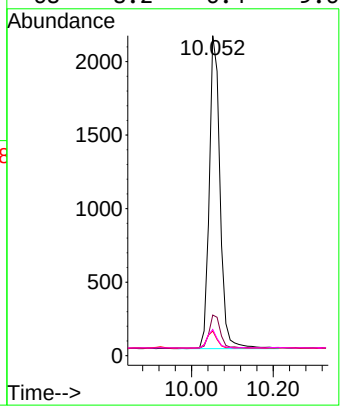




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:136 Resp: 390

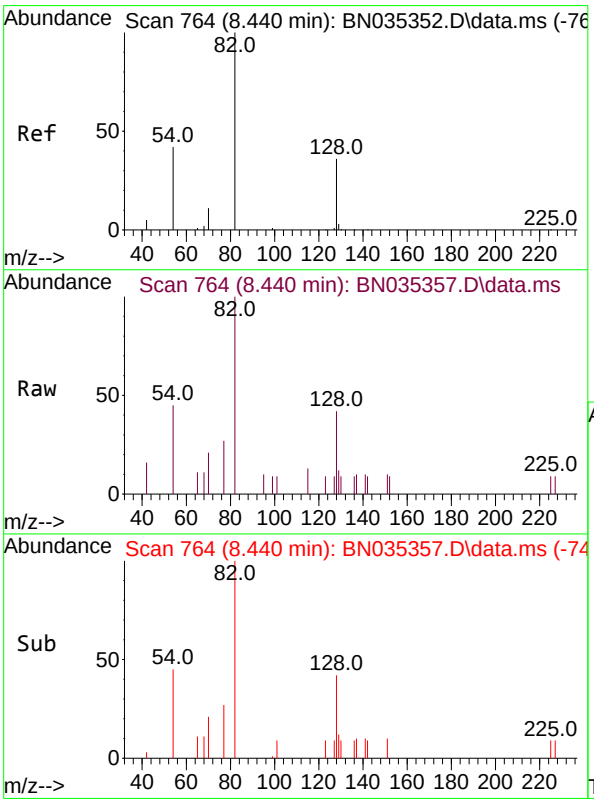
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

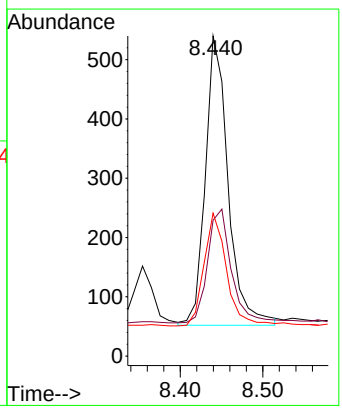
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

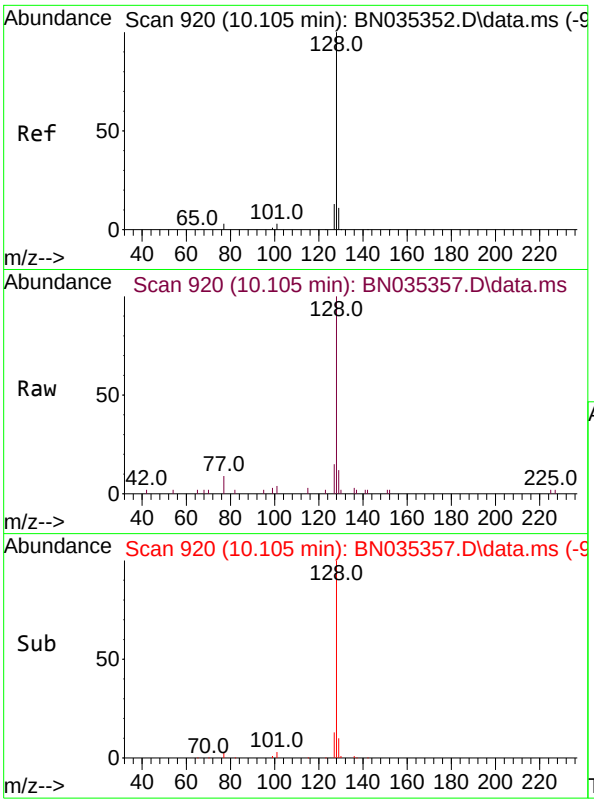


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 938

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1

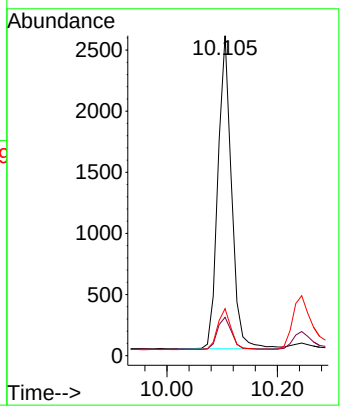




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:128 Resp: 436

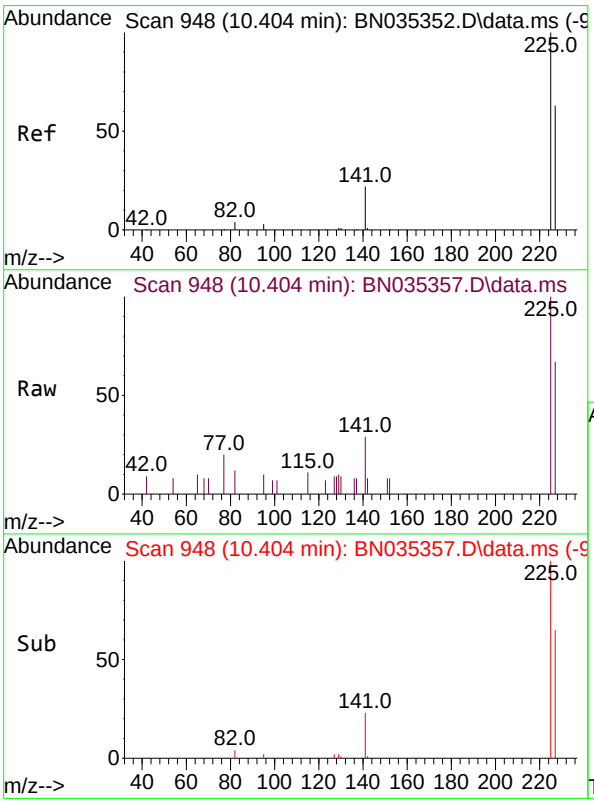
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

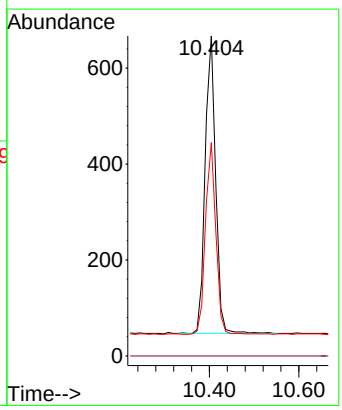
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

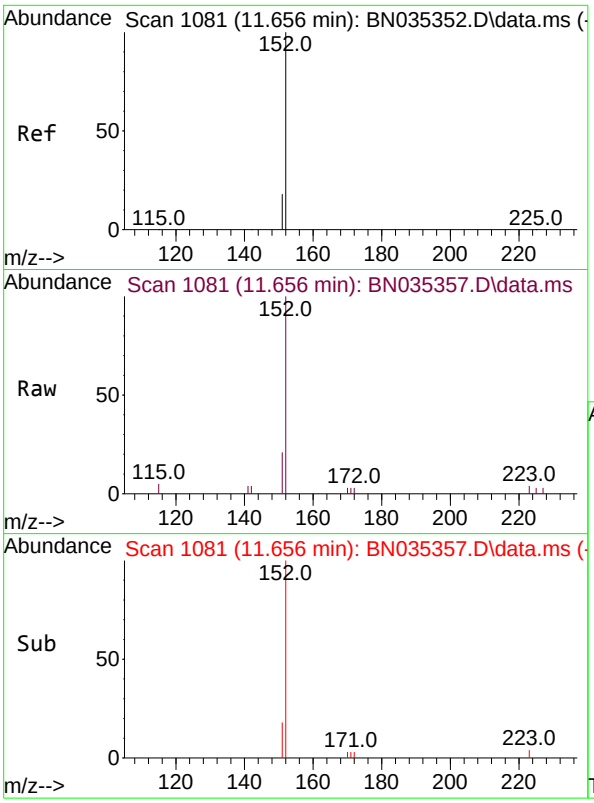


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9

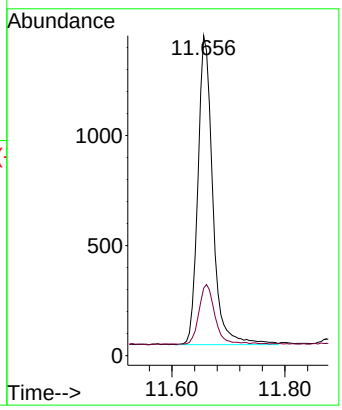




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 256

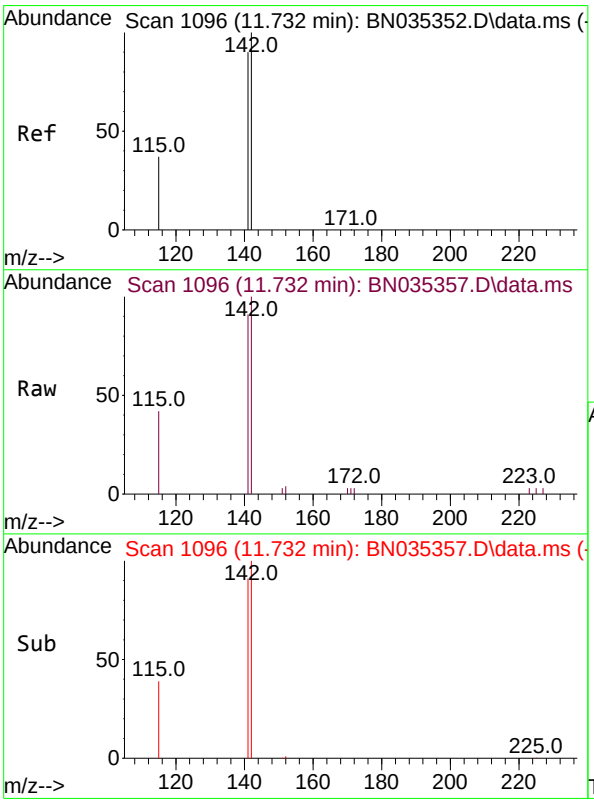
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

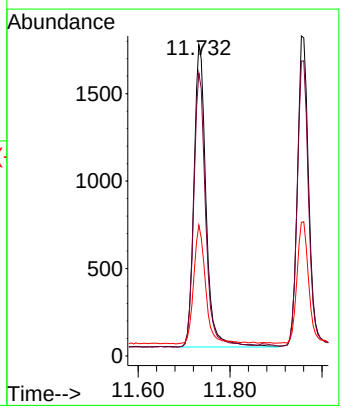
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

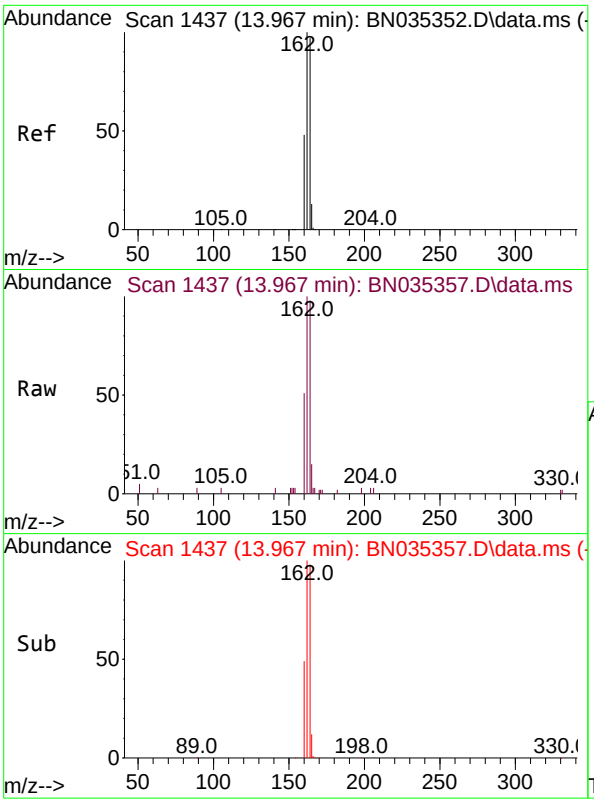


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0

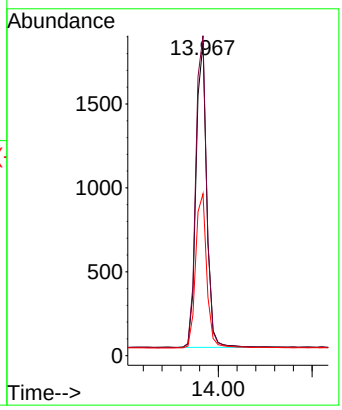




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:164 Resp: 287

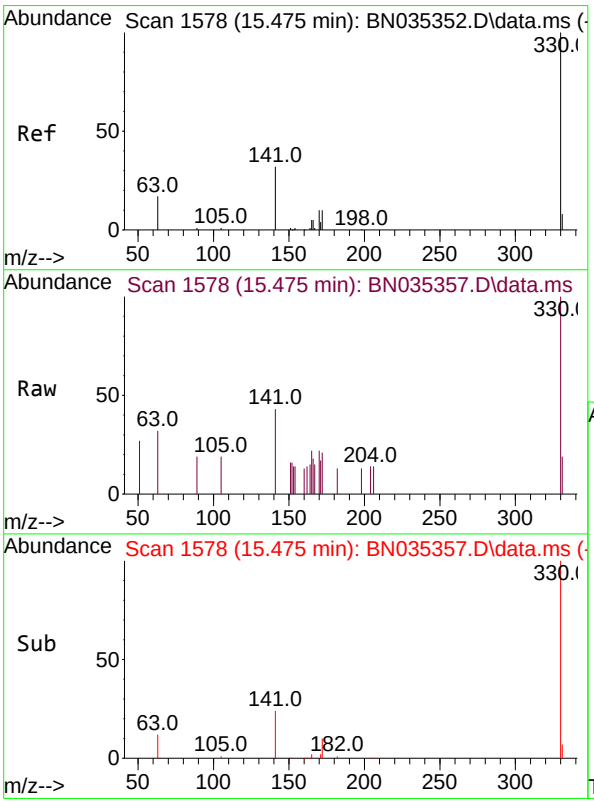
Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

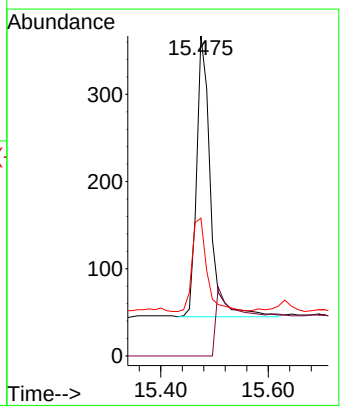
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

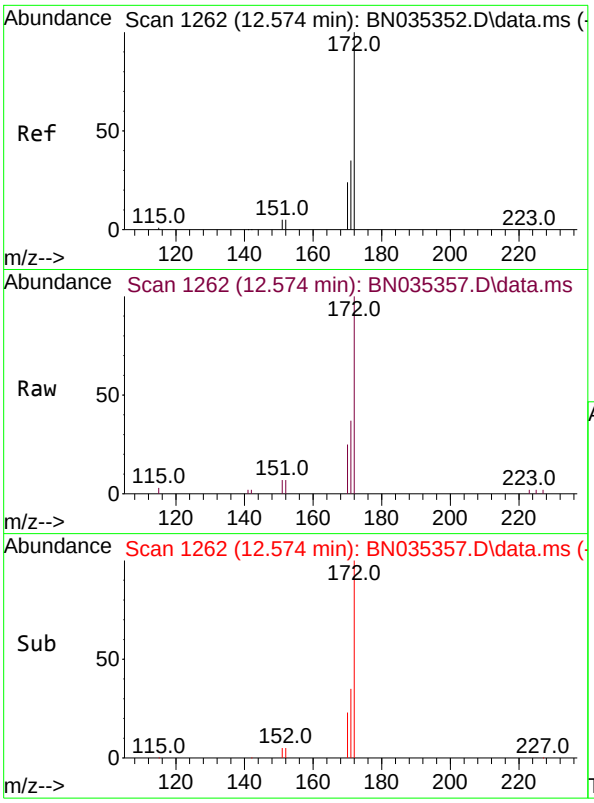


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

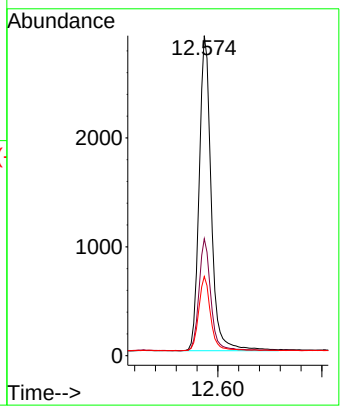




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:172 Resp: 464

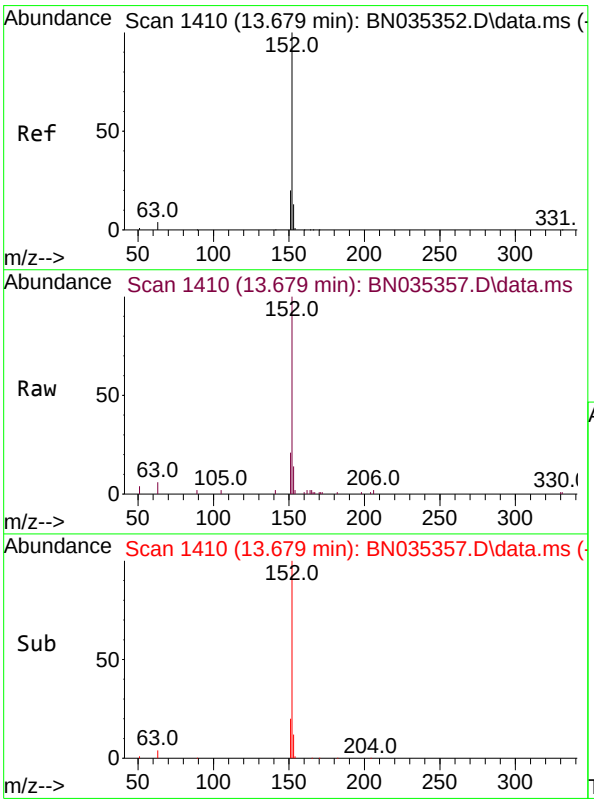
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

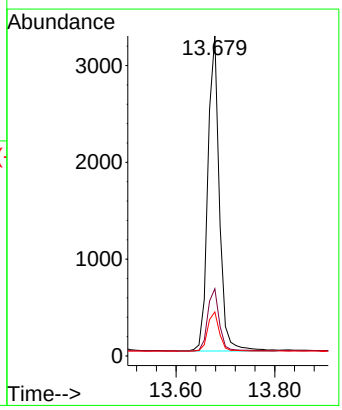
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

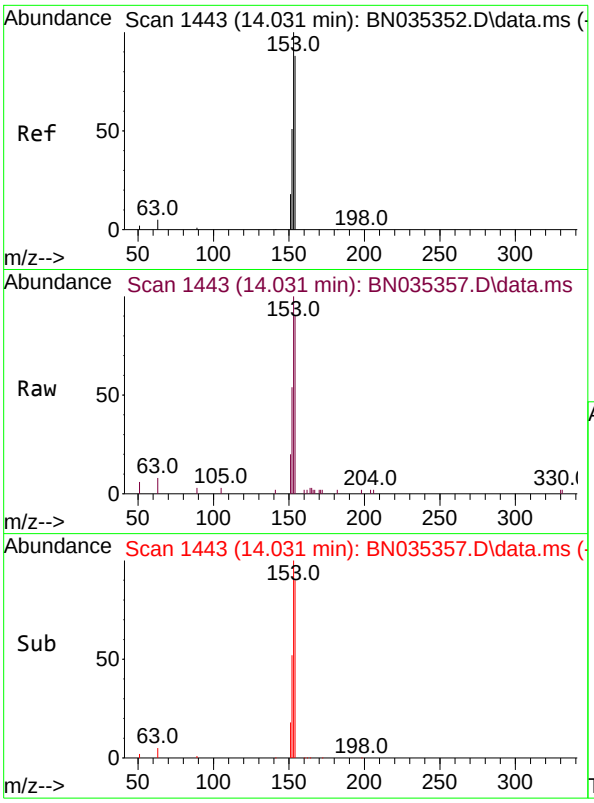


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6

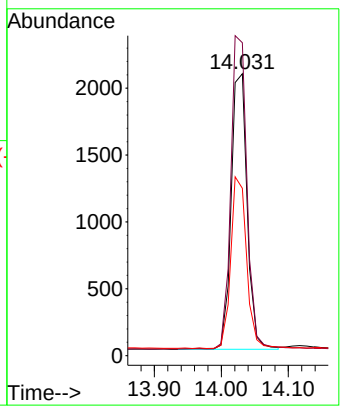




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:154 Resp: 342

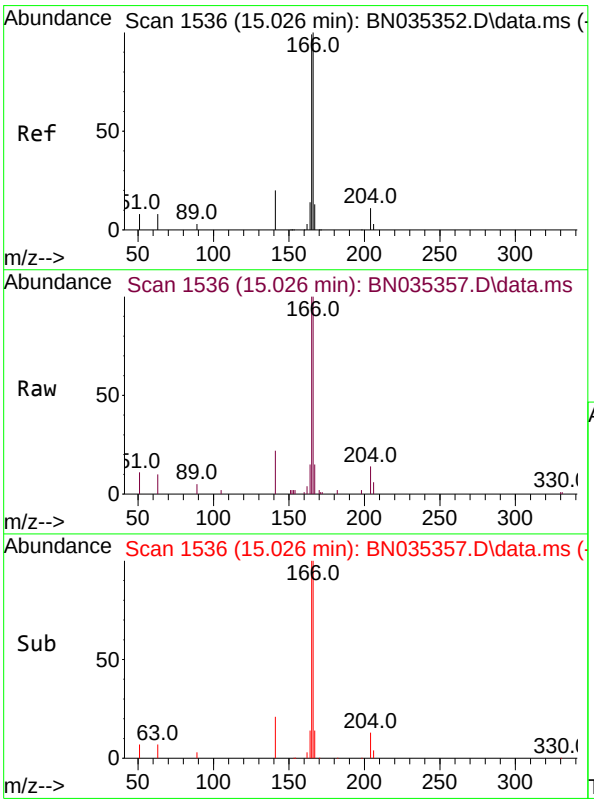
Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

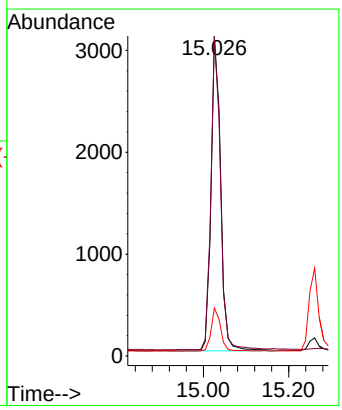
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

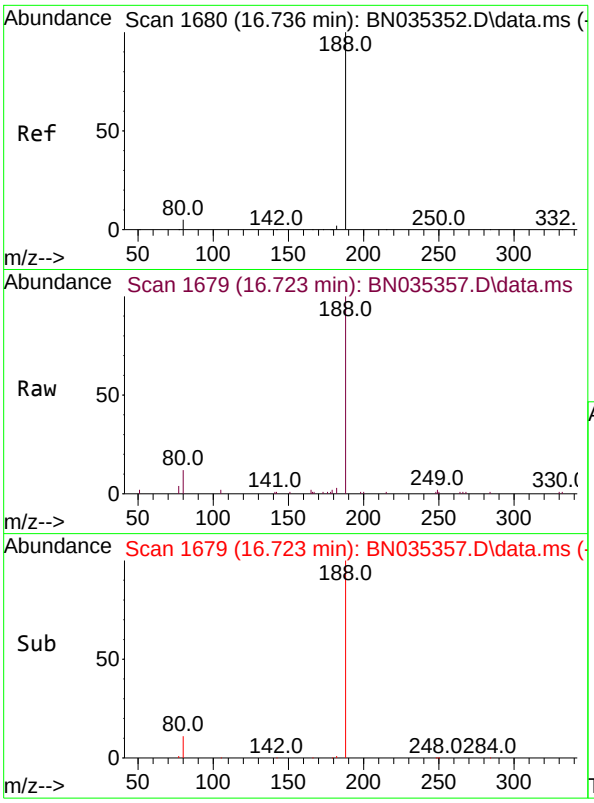


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2

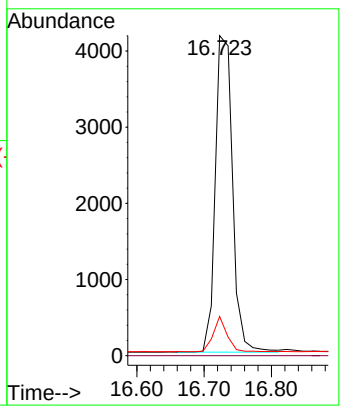




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:188 Resp: 735(

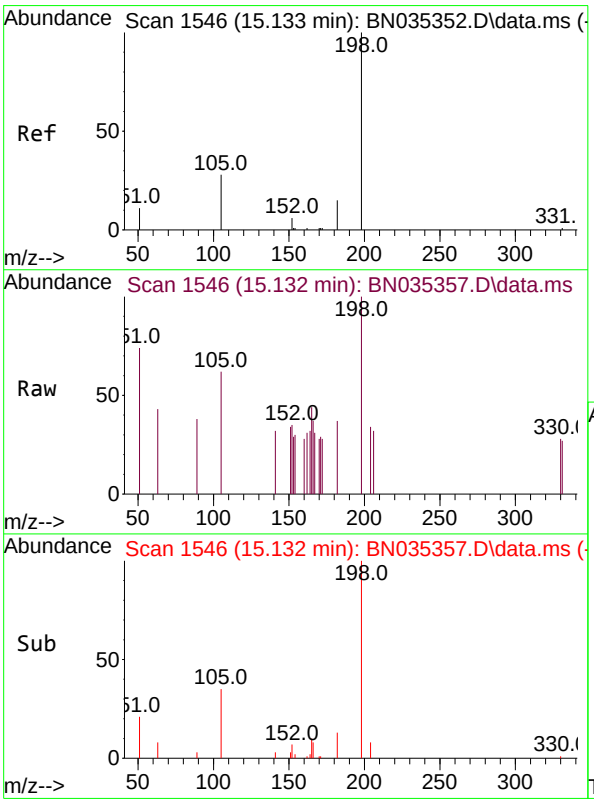
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

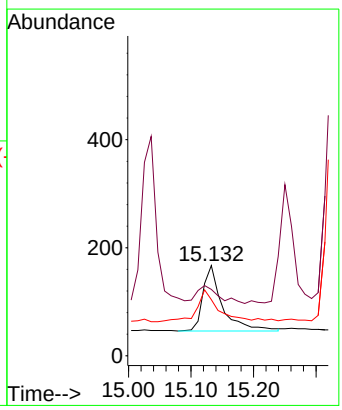
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

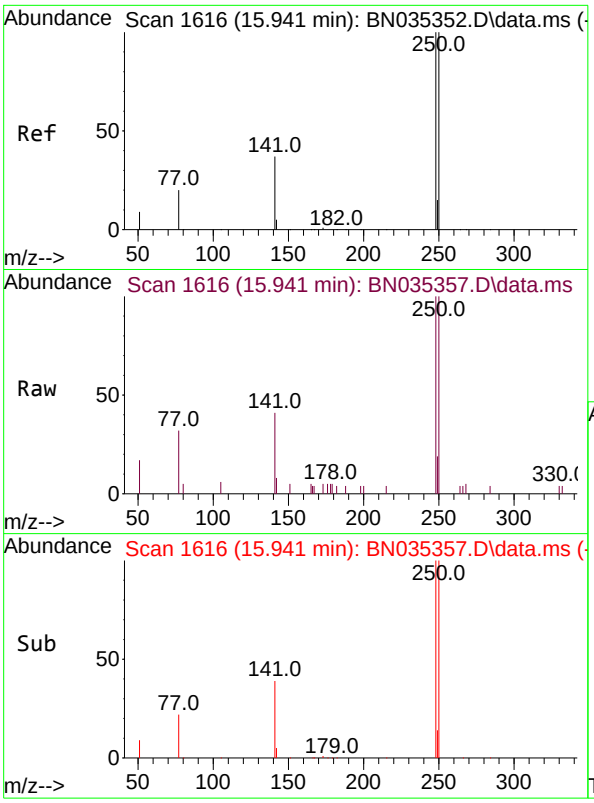


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9

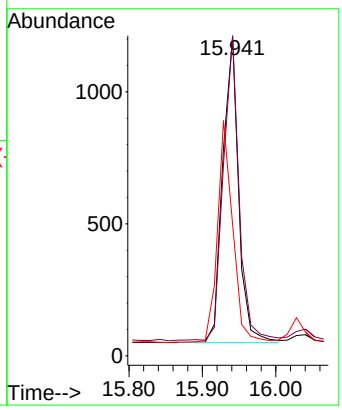




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:248 Resp: 174

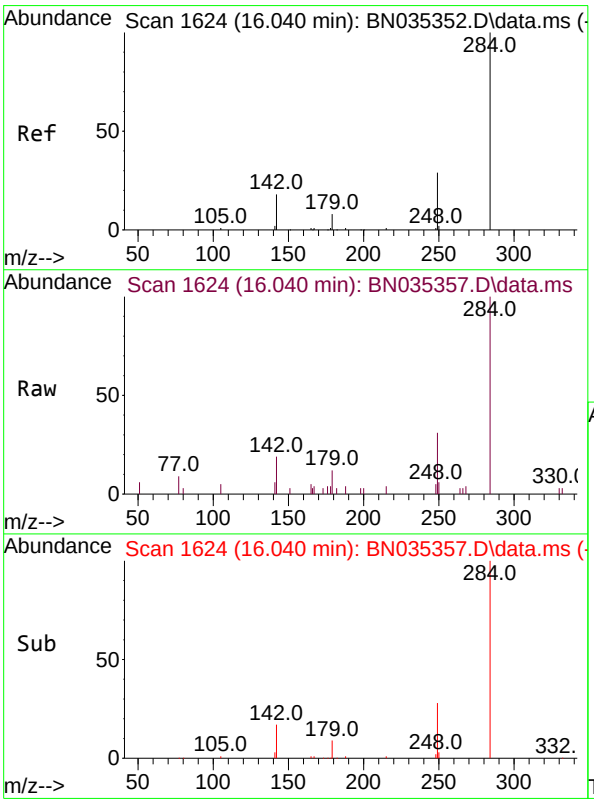
Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

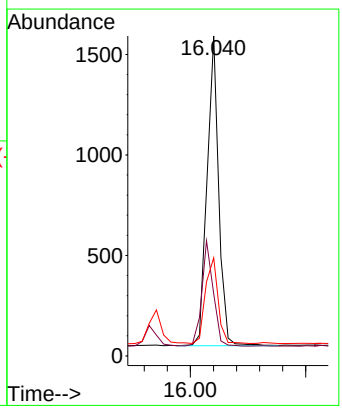
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

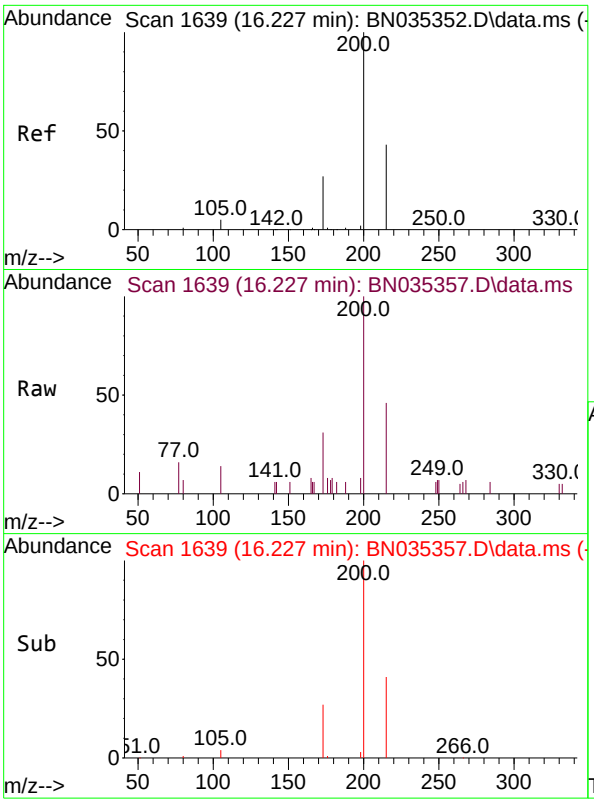


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8

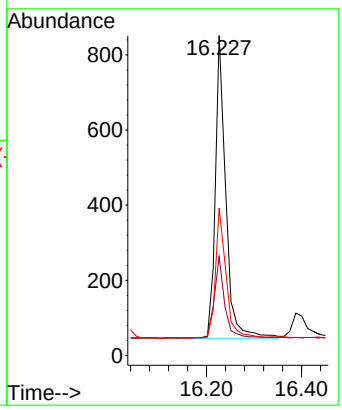




#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:200 Resp: 122

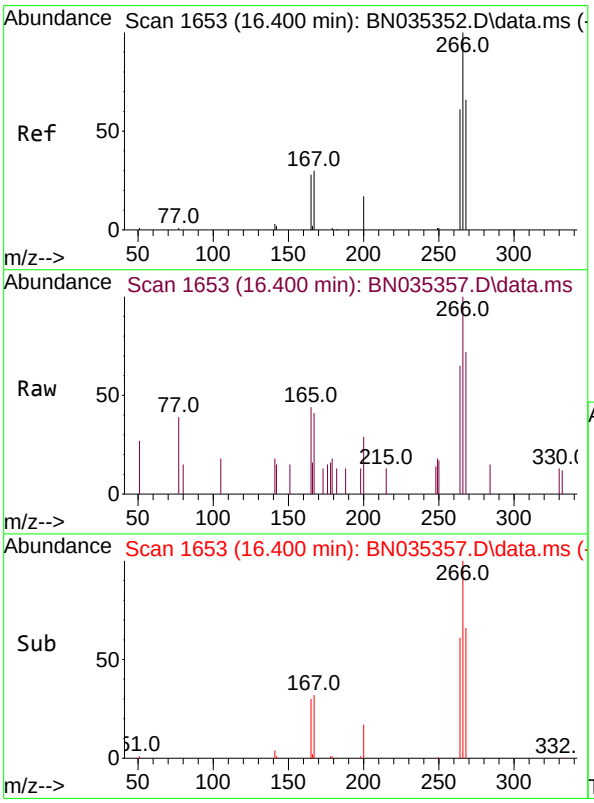
Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

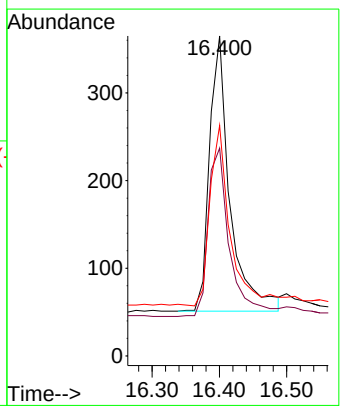
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

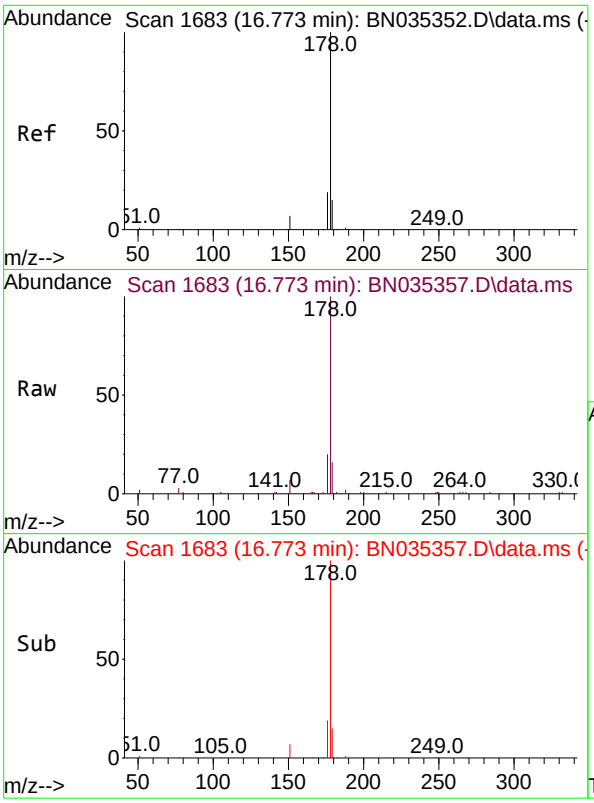


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#

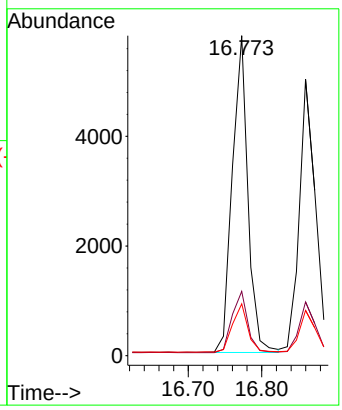




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 850

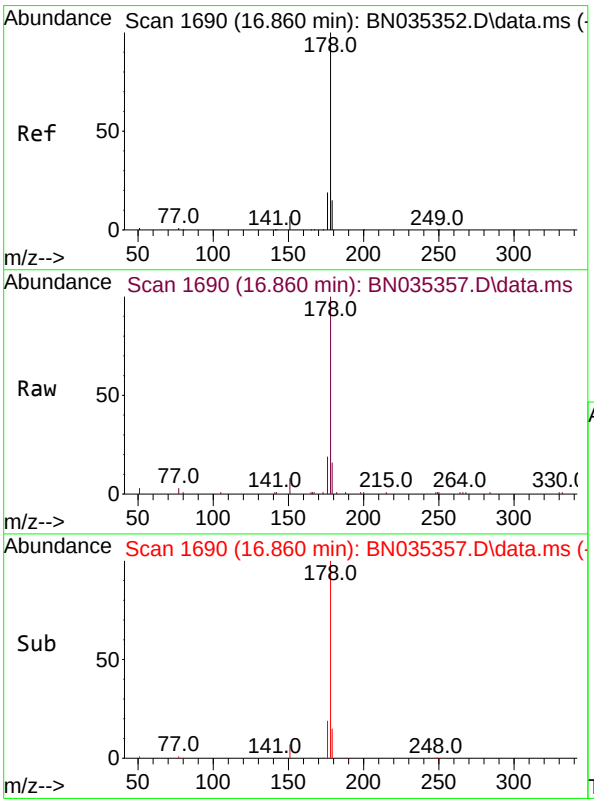
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

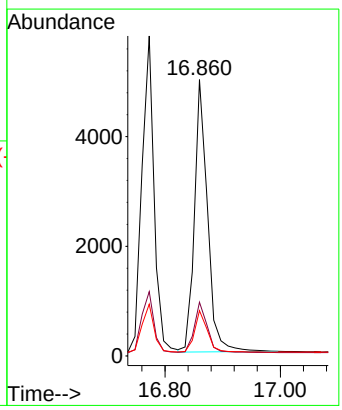
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

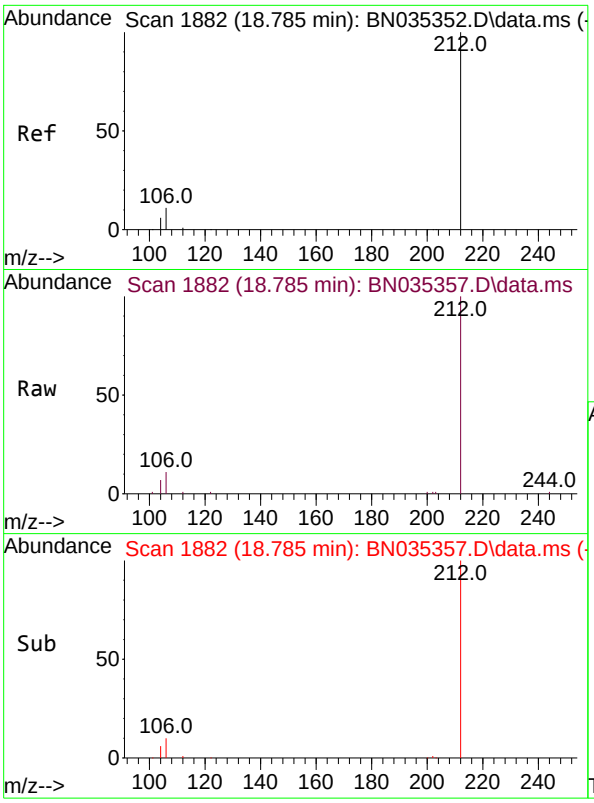


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

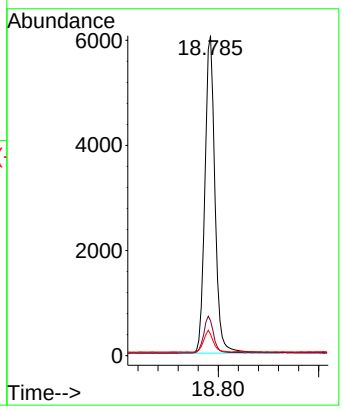




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:212 Resp: 841

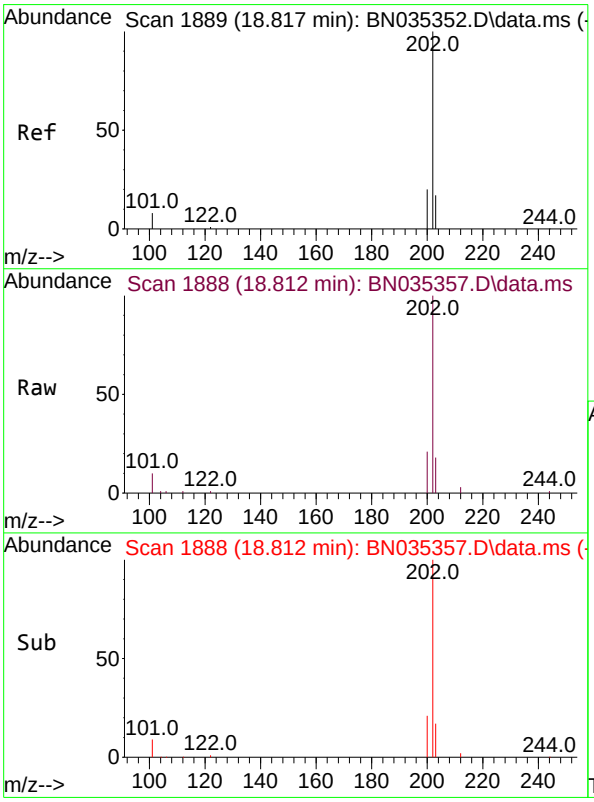
Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

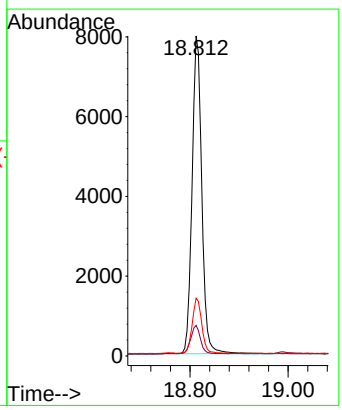
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

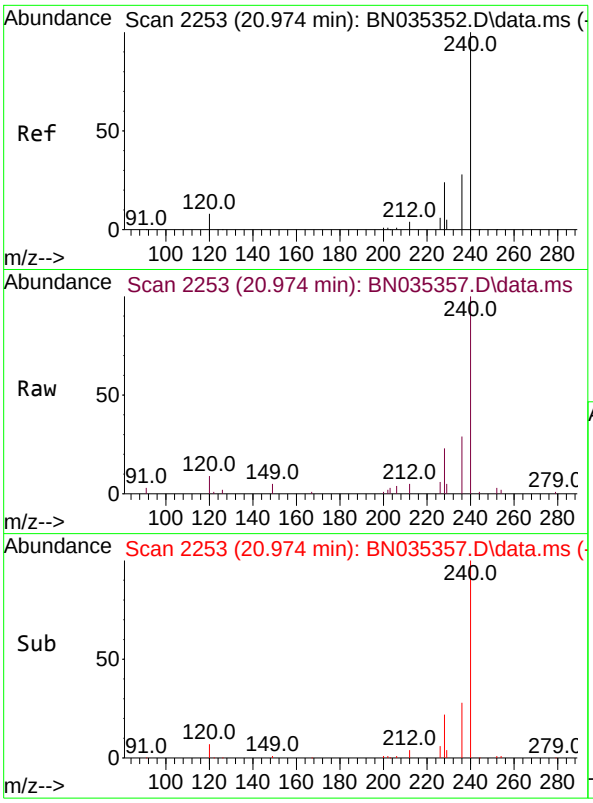


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

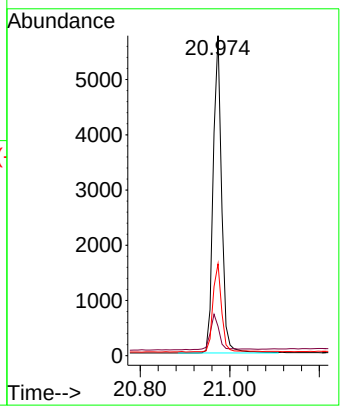




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:240 Resp: 757

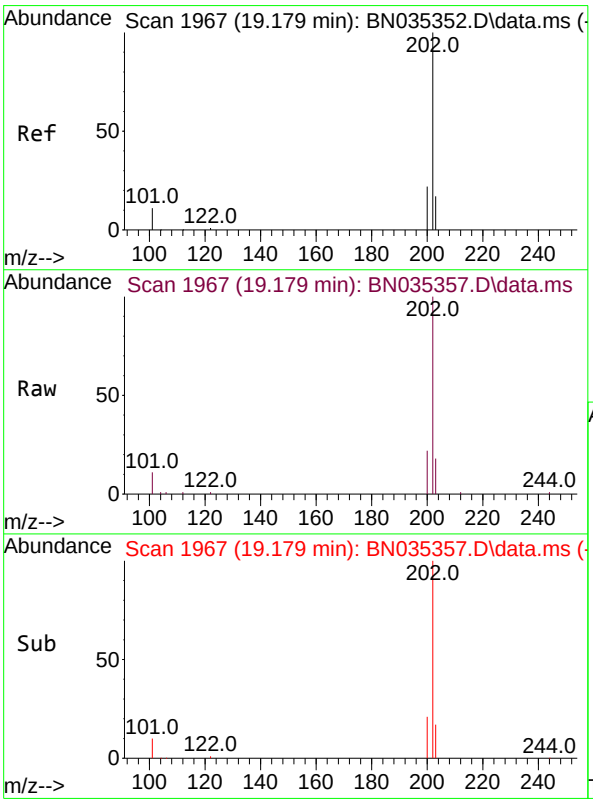
Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

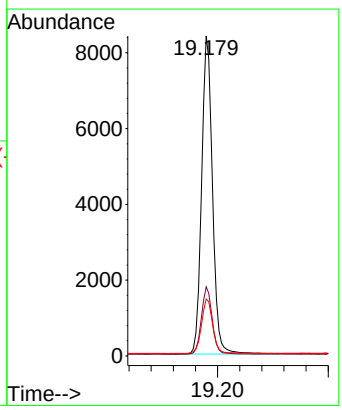
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

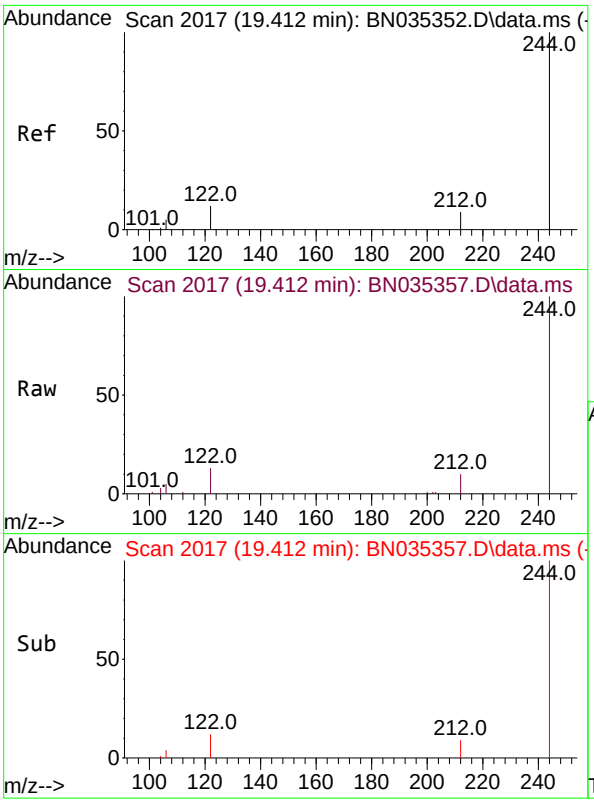


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5

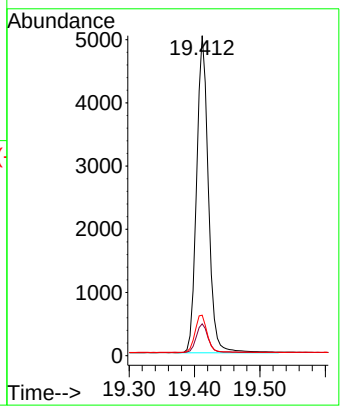




#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:244 Resp: 627

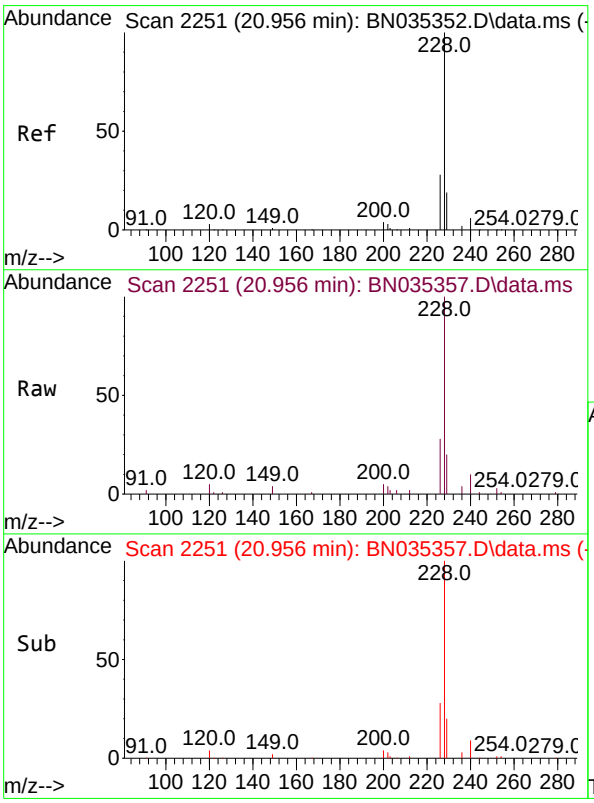
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

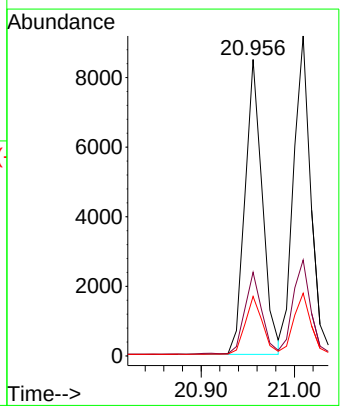
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

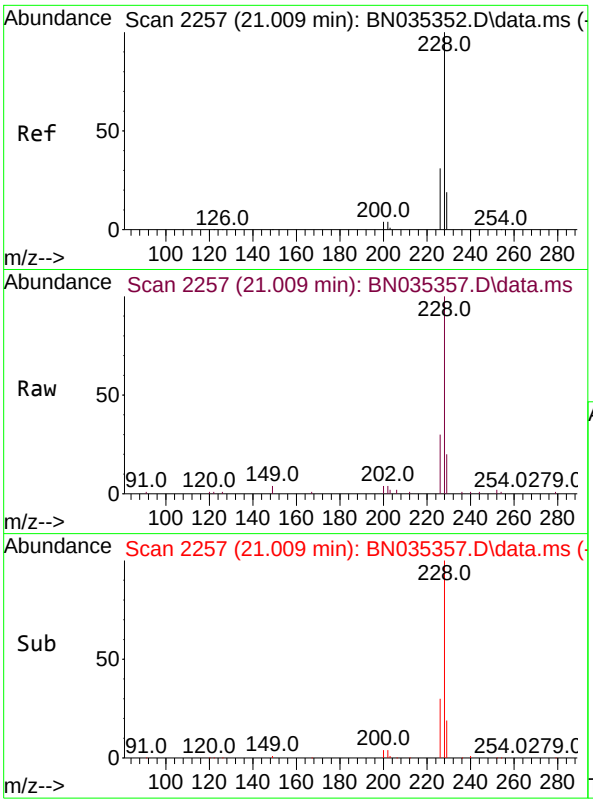


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8

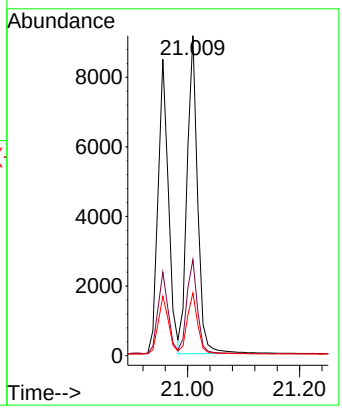




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 1192

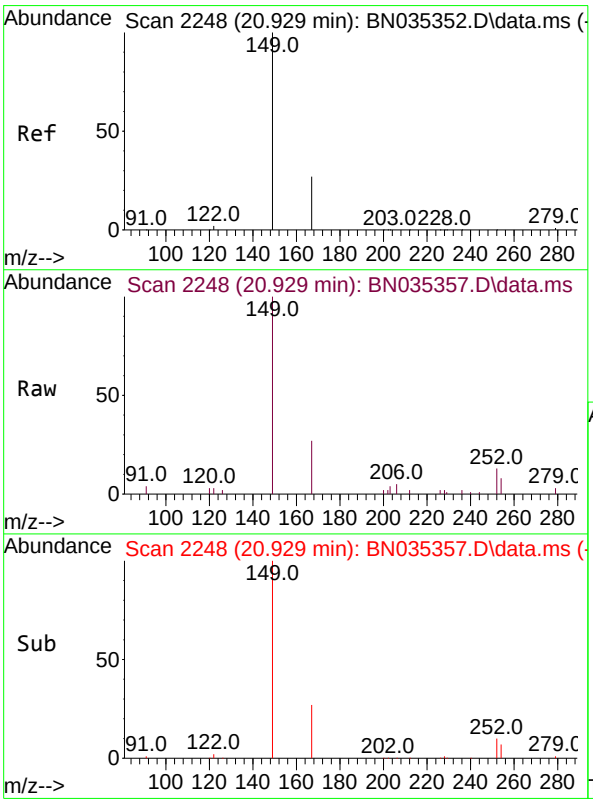
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

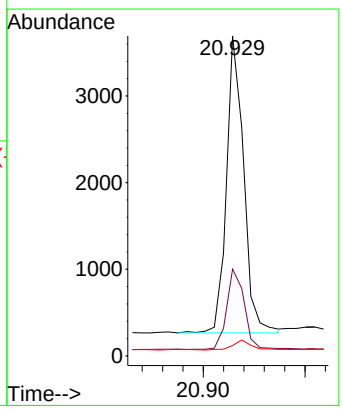
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

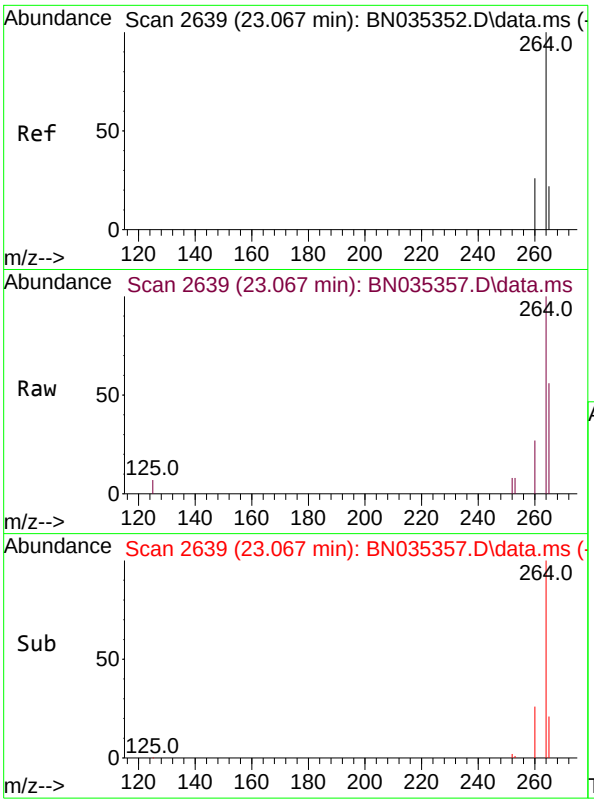


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

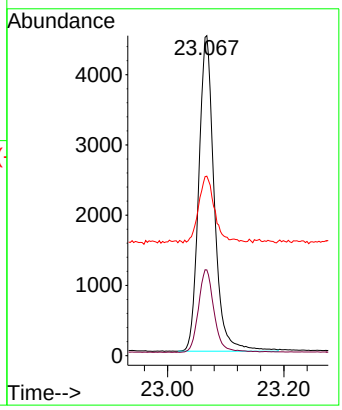




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:264 Resp: 833

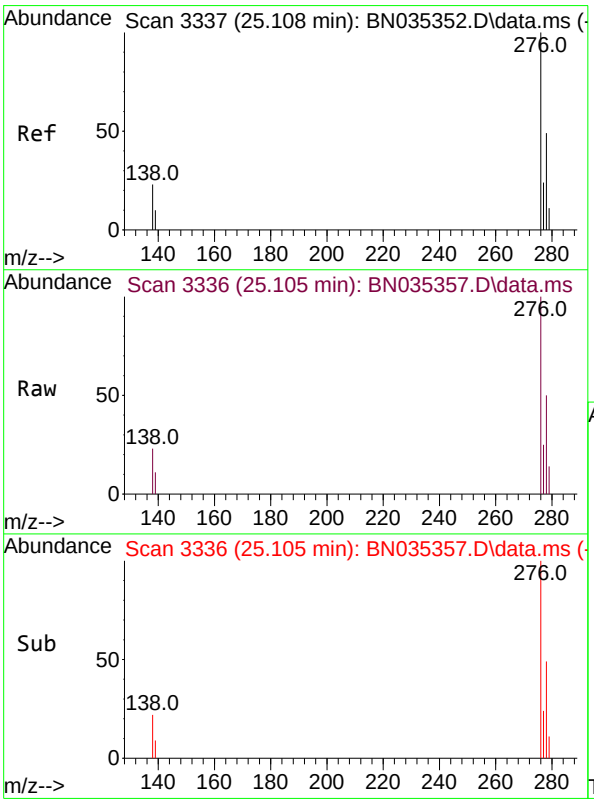
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

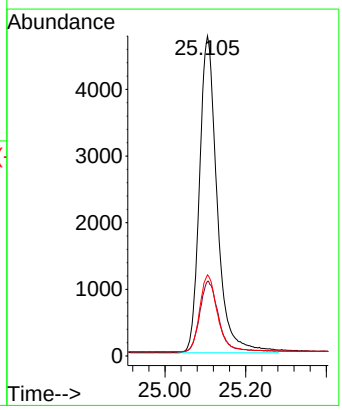
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

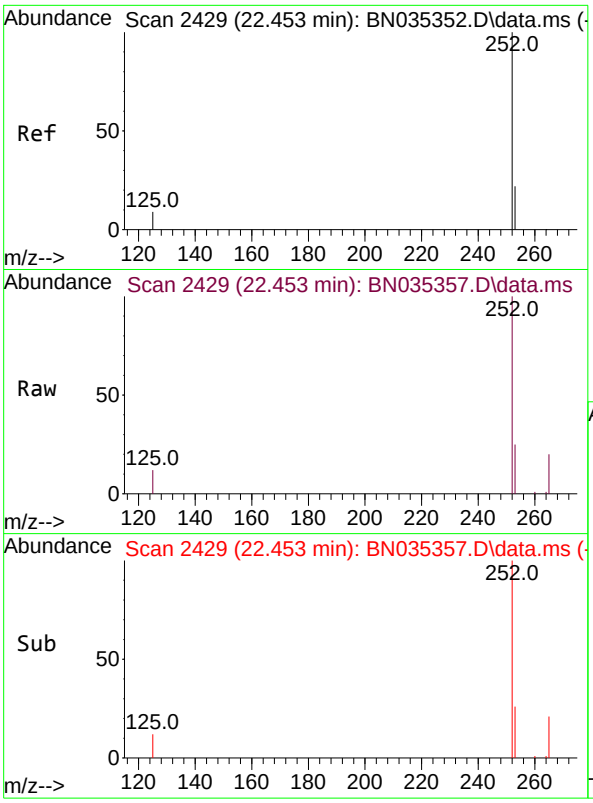


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6

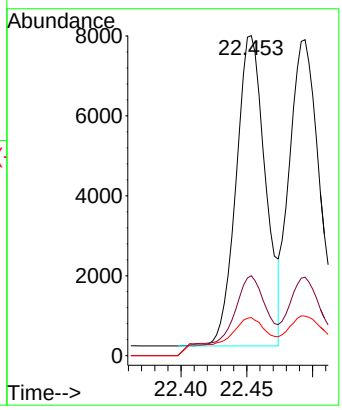




#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1298

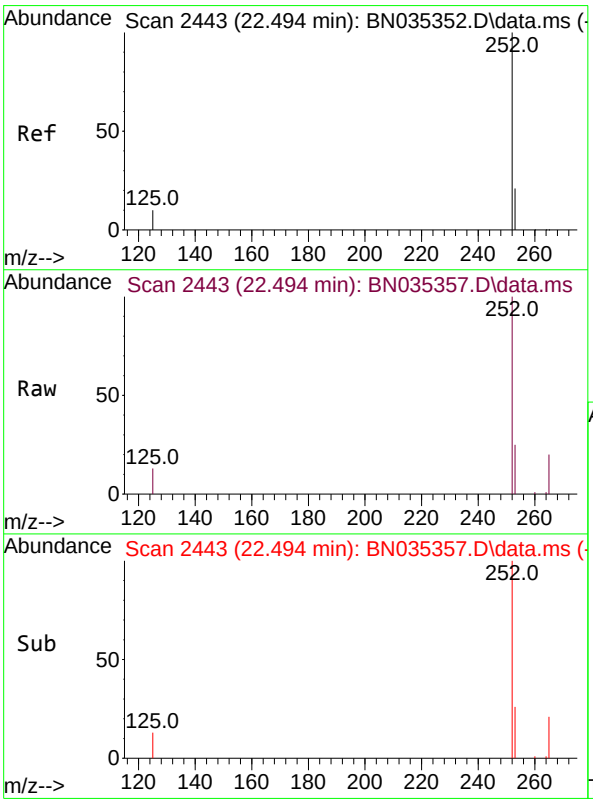
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

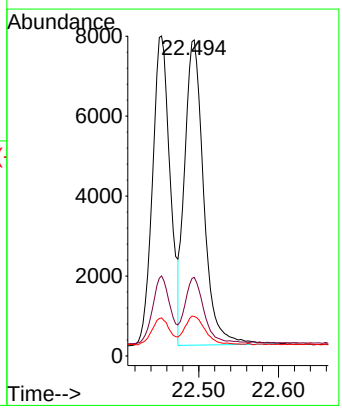
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

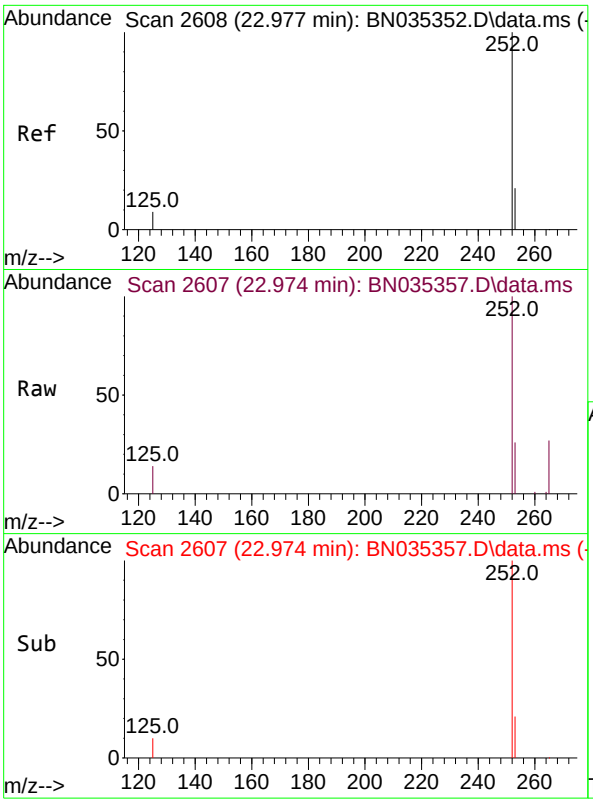


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4

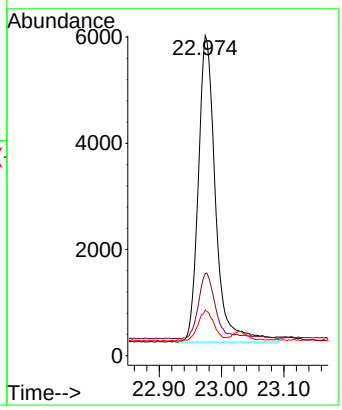




#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1109

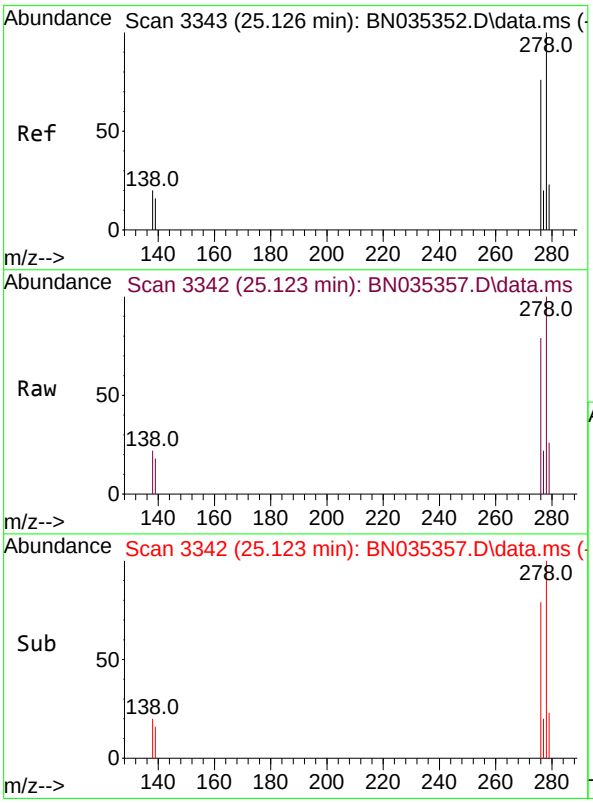
Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

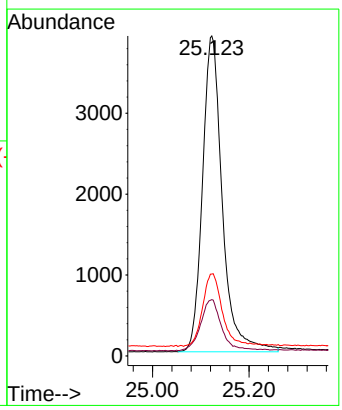
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

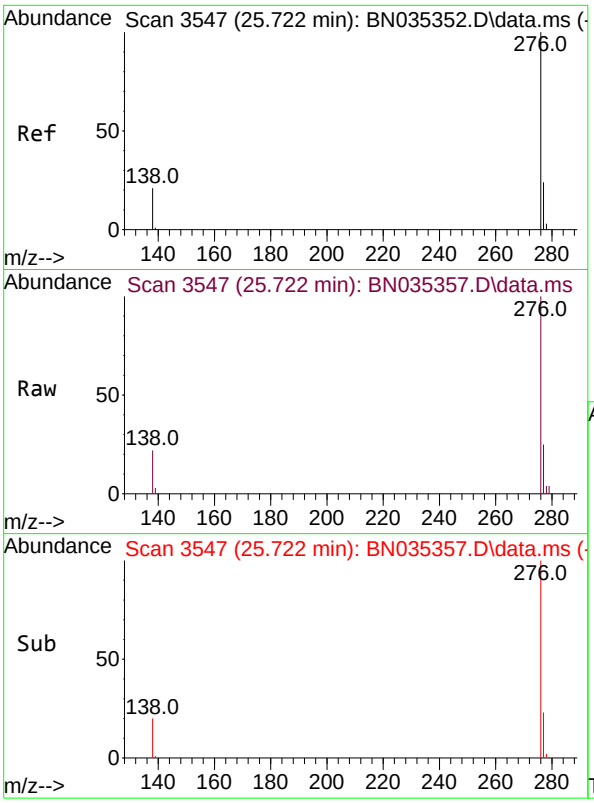


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7

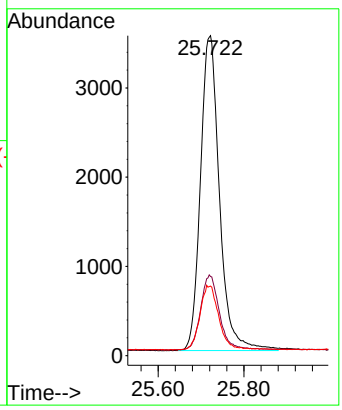




#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 1087

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
2		1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3		n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4	S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5	S	Phenol-d6	1.204	0.933	22.5	59	0.00
6		bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8	S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9		Naphthalene	1.055	1.118	-6.0	80	0.00
10		Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12		2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15	S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16		Acenaphthylene	1.680	1.827	-8.8	87	0.00
17		Acenaphthene	1.115	1.188	-6.5	83	0.00
18		Fluorene	1.596	1.676	-5.0	82	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21		4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22		Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23		Atrazine	0.167	0.167	0.0	84	0.00
24		Pentachlorophenol	0.120	0.090	25.0	73	0.00
25		Phenanthrene	1.099	1.158	-5.4	84	0.00
26		Anthracene	0.994	1.068	-7.4	88	0.00
27	SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28		Fluoranthene	1.481	1.489	-0.5	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30		Pyrene	1.477	1.515	-2.6	82	0.00
31	S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32		Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33		Chrysene	1.443	1.574	-9.1	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35	I	Perylene-d12	1.000	1.000	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37		Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38		Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39	C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41		Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	75	0.00
2		1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4	S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5	S	Phenol-d6	0.400	0.310	22.5	59	0.00
6		bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8	S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9		Naphthalene	0.400	0.424	-6.0	80	0.00
10		Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12		2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15	S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16		Acenaphthylene	0.400	0.435	-8.7	87	0.00
17		Acenaphthene	0.400	0.426	-6.5	83	0.00
18		Fluorene	0.400	0.420	-5.0	82	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23		Atrazine	0.400	0.401	-0.3	84	0.00
24		Pentachlorophenol	0.400	0.301	24.8	73	0.00
25		Phenanthrene	0.400	0.421	-5.2	84	0.00
26		Anthracene	0.400	0.430	-7.5	88	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28		Fluoranthene	0.400	0.402	-0.5	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30		Pyrene	0.400	0.410	-2.5	82	0.00
31	S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32		Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33		Chrysene	0.400	0.436	-9.0	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35	I	Perylene-d12	0.400	0.400	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37		Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38		Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39	C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41		Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	0.00

(#) = 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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 08:04

Lab File ID: BN035731.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.562		-10.2	20.0
Fluoranthene-d10	1.134	0.985		-13.1	20.0
2-Fluorophenol	1.001	0.990		-1.1	20.0
Phenol-d6	1.204	1.140		-5.3	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.376		-9.0	20.0
2,4,6-Tribromophenol	0.284	0.221		-22.2	20.0
Terphenyl-d14	0.789	0.839		6.3	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BN035731.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.271	152	3239	0.400	ng		0.00
7) Naphthalene-d8	10.020	136	8431	0.400	ng		# 0.00
13) Acenaphthene-d10	13.924	164	5341	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10575	0.400	ng		# 0.00
29) Chrysene-d12	20.956	240	8878	0.400	ng		0.00
35) Perylene-d12	23.038	264	9229	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.939	112	3206	0.396	ng		0.00
5) Phenol-d6	6.484	99	3691	0.379	ng		0.00
8) Nitrobenzene-d5	8.408	82	2398m	0.466	ng		0.00
11) 2-Methylnaphthalene-d10	11.621	152	4741	0.359	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	1180	0.311	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	7347	0.364	ng		0.00
27) Fluoranthene-d10	18.761	212	10416	0.347	ng		0.00
31) Terphenyl-d14	19.388	244	7453	0.426	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1312	0.424	ng		96
3) n-Nitrosodimethylamine	3.278	42	1070	0.415	ng	#	94
6) bis(2-Chloroethyl)ether	6.723	93	2987	0.365	ng		100
9) Naphthalene	10.062	128	8331	0.375	ng		100
10) Hexachlorobutadiene	10.351	225	2194	0.428	ng	#	99
12) 2-Methylnaphthalene	11.697	142	5286	0.332	ng		100
16) Acenaphthylene	13.646	152	7931	0.354	ng		100
17) Acenaphthene	13.989	154	5347	0.359	ng		99
18) Fluorene	14.993	166	7004	0.329	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	83	0.080	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2216	0.358	ng	#	71
22) Hexachlorobenzene	16.003	284	3183	0.438	ng		97
23) Atrazine	16.202	200	1696	0.385	ng		98
24) Pentachlorophenol	16.375	266	1107	0.350	ng	#	83
25) Phenanthrene	16.748	178	10192	0.351	ng		100
26) Anthracene	16.835	178	9082	0.346	ng		99
28) Fluoranthene	18.789	202	12678	0.324	ng		99
30) Pyrene	19.156	202	13069	0.399	ng		100
32) Benzo(a)anthracene	20.938	228	10542	0.339	ng		100
33) Chrysene	20.991	228	12448	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5271	0.430	ng		99
36) Indeno(1,2,3-cd)pyrene	25.061	276	13578	0.376	ng		96
37) Benzo(b)fluoranthene	22.427	252	14777	0.438	ng		97
38) Benzo(k)fluoranthene	22.468	252	12300m	0.370	ng		
39) Benzo(a)pyrene	22.947	252	10146	0.365	ng	#	92
40) Dibenzo(a,h)anthracene	25.079	278	10523	0.370	ng		97
41) Benzo(g,h,i)perylene	25.672	276	11906	0.400	ng		98

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

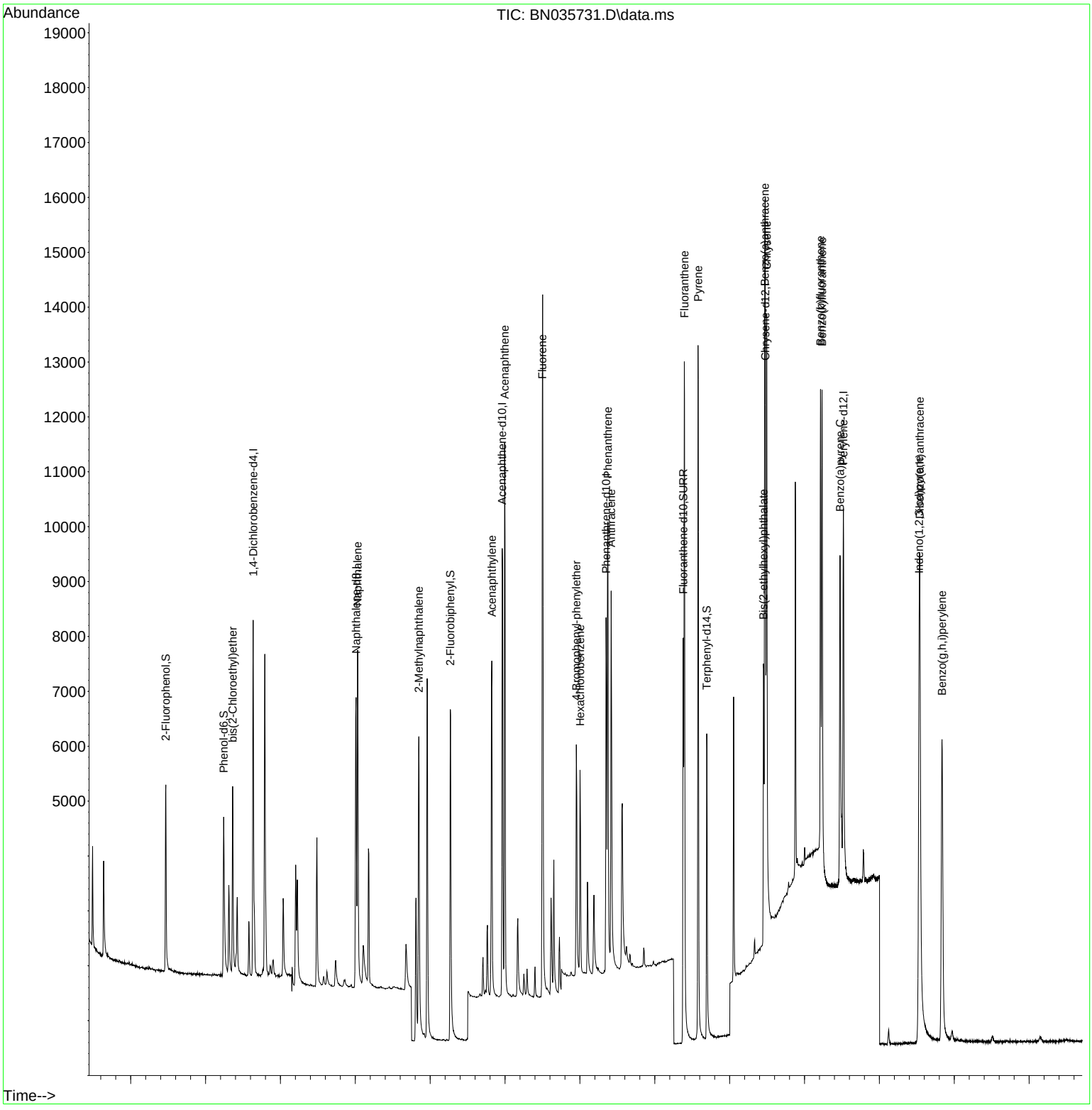
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

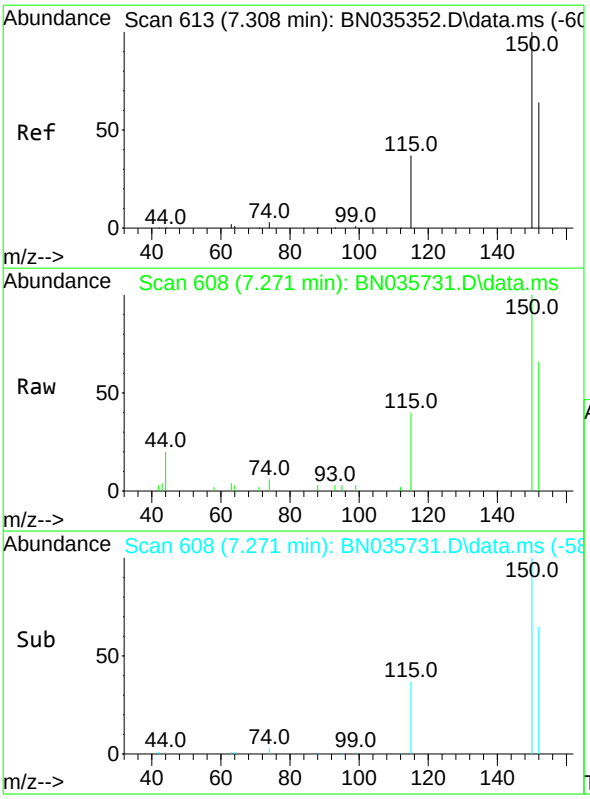
Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

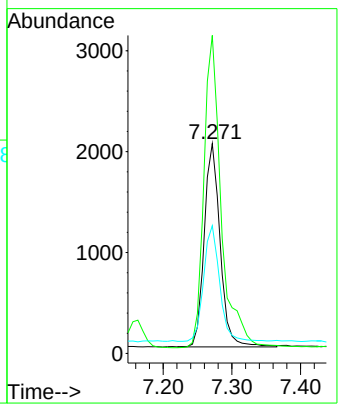




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 60
Delta R.T. -0.001 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:152 Resp: 3239

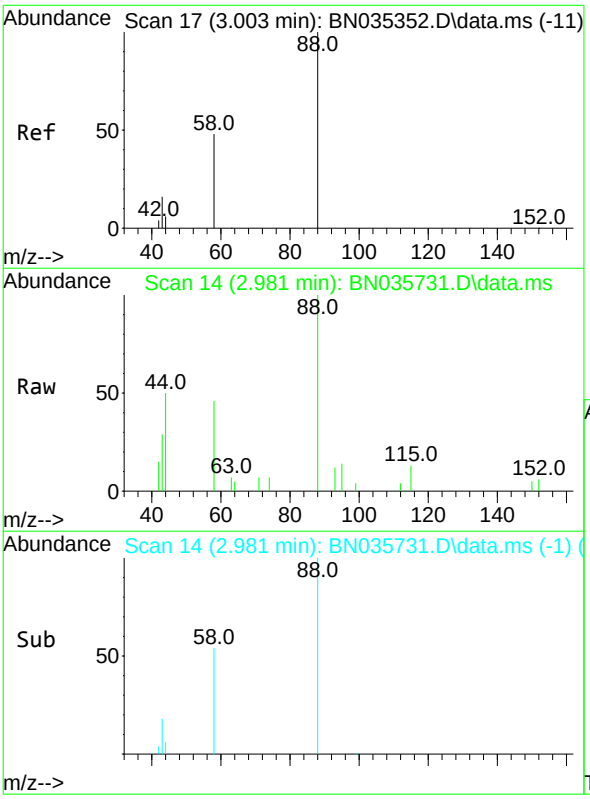
Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.0	186.0
115	60.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

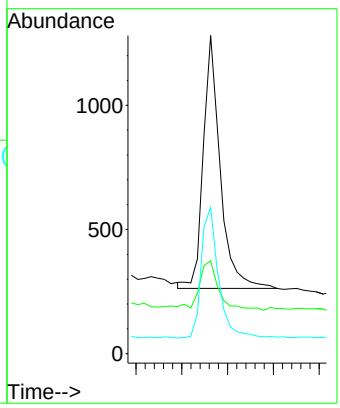
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

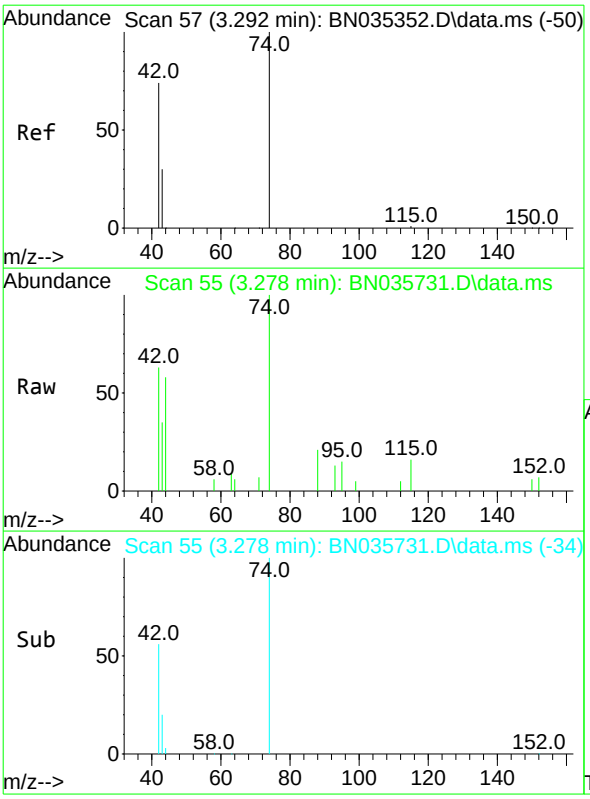


#2
1,4-Dioxane
Concen: 0.424 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 88 Resp: 1312

Ion	Ratio	Lower	Upper
88	100		
43	23.4	17.2	25.8
58	52.7	44.5	66.7

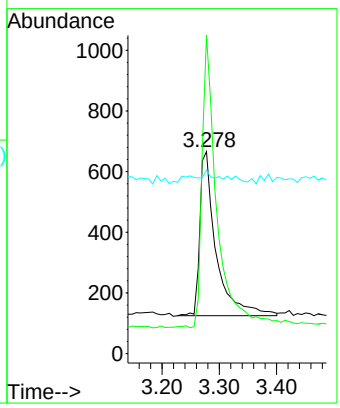




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.278 min Scan# 55
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 42 Resp: 1070

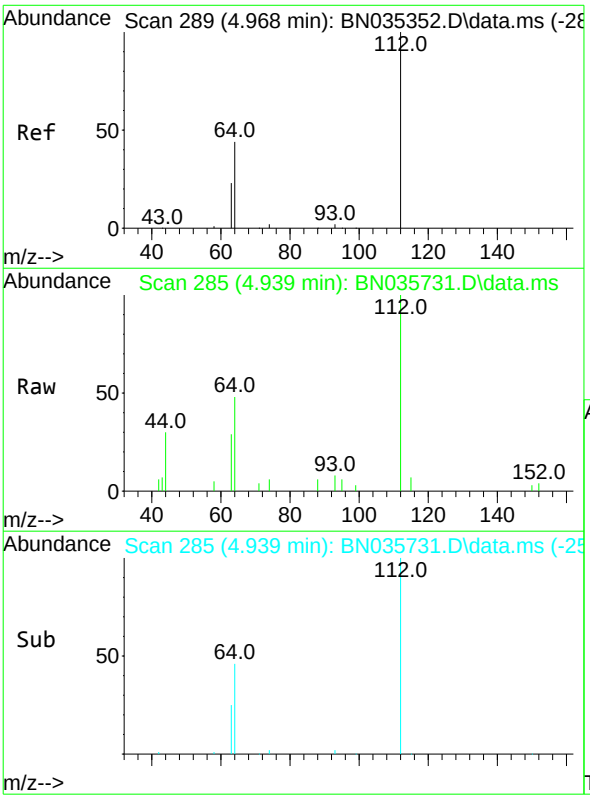
Ion	Ratio	Lower	Upper
42	100		
74	163.5	124.9	187.3
44	1.8	2.2	3.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

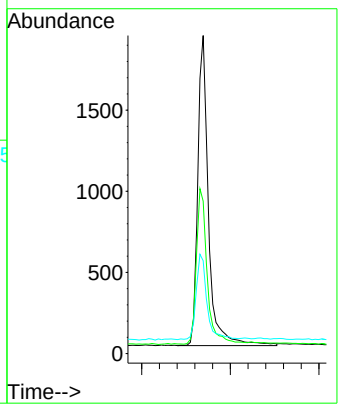
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

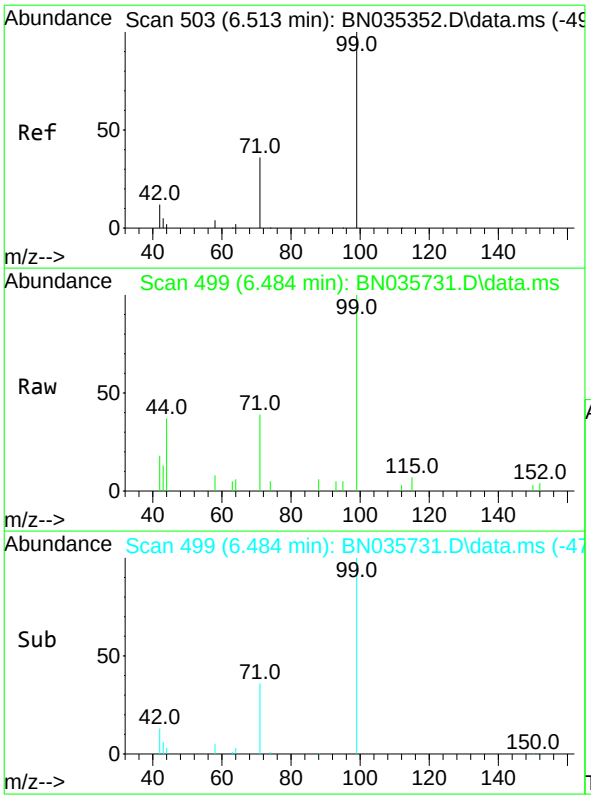


#4
2-Fluorophenol
Concen: 0.396 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:112 Resp: 3206

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.8	59.8
63	27.8	21.0	31.6





#5
Phenol-d6
Concen: 0.379 ng
RT: 6.484 min Scan# 49
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

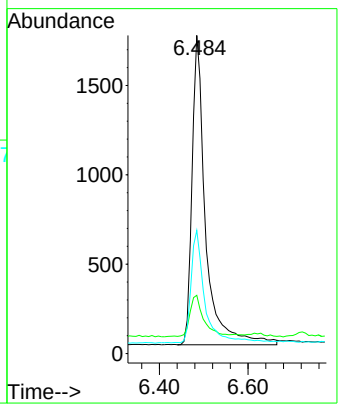
Tgt Ion: 99 Resp: 3691

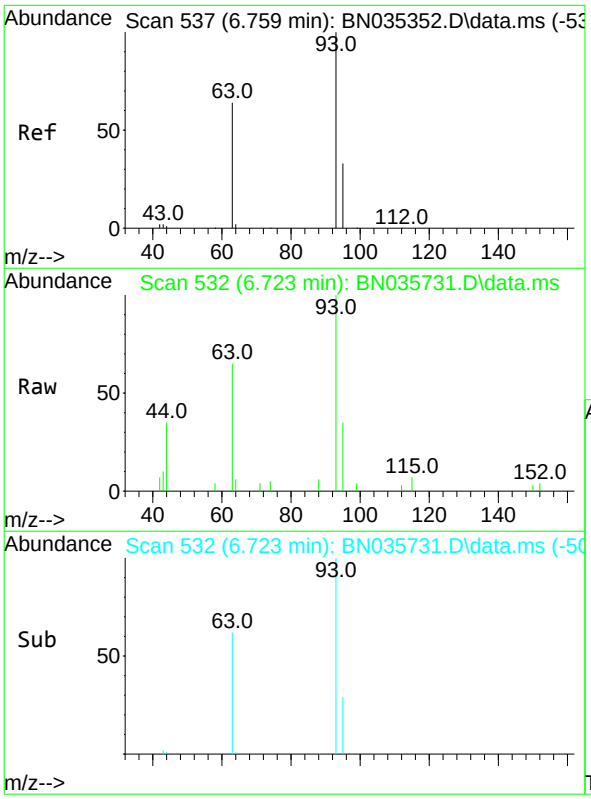
Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	36.7	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

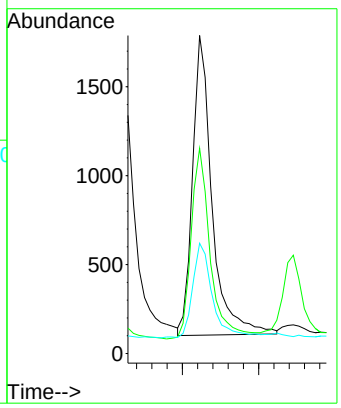


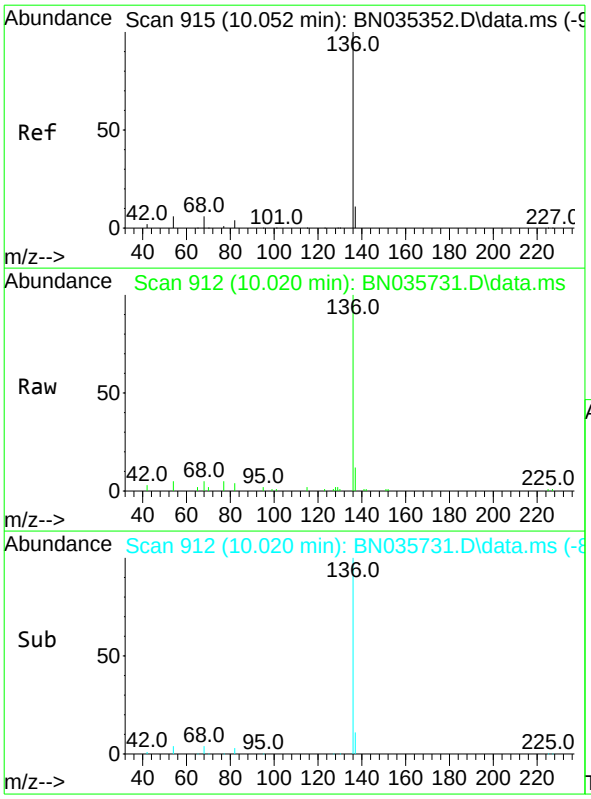


#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 93 Resp: 2987

Ion	Ratio	Lower	Upper
93	100		
63	62.5	50.4	75.6
95	32.2	25.7	38.5

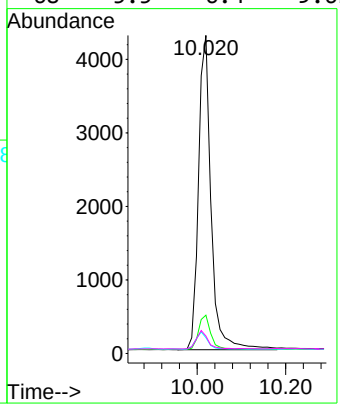




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:136 Resp: 8431

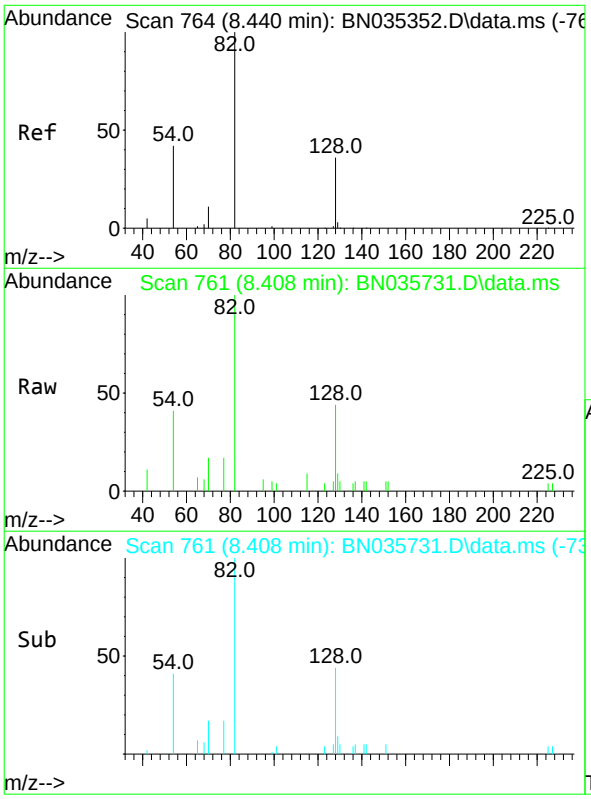
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	5.0	6.1	9.1#
68	5.5	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

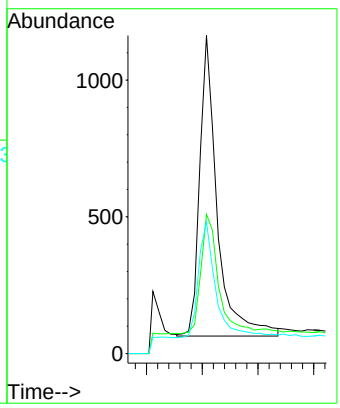
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

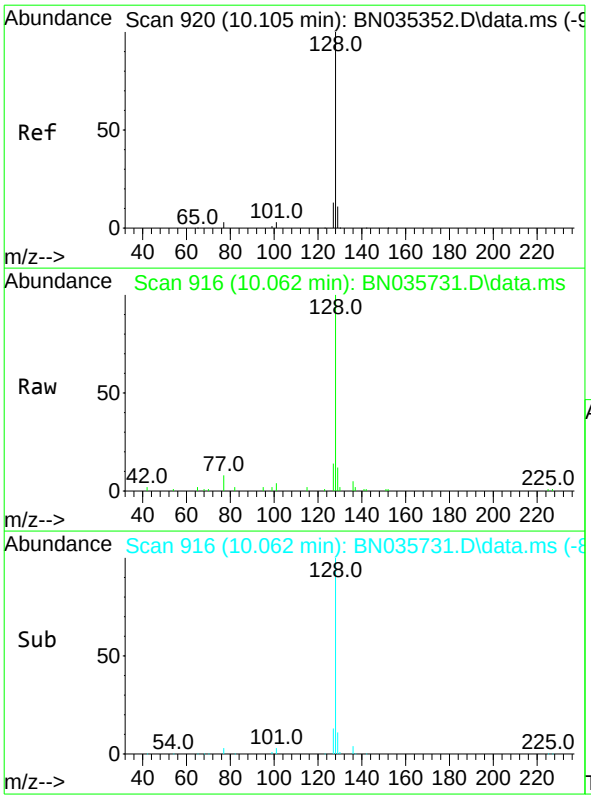


#8
Nitrobenzene-d5
Concen: 0.466 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 82 Resp: 2398

Ion	Ratio	Lower	Upper
82	100		
128	43.8	33.4	50.0
54	41.4	36.7	55.1





#9
Naphthalene
Concen: 0.375 ng
RT: 10.062 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

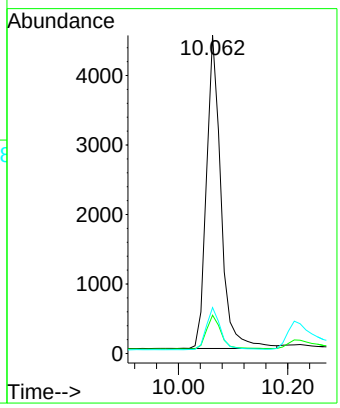
Tgt Ion:128 Resp: 8331

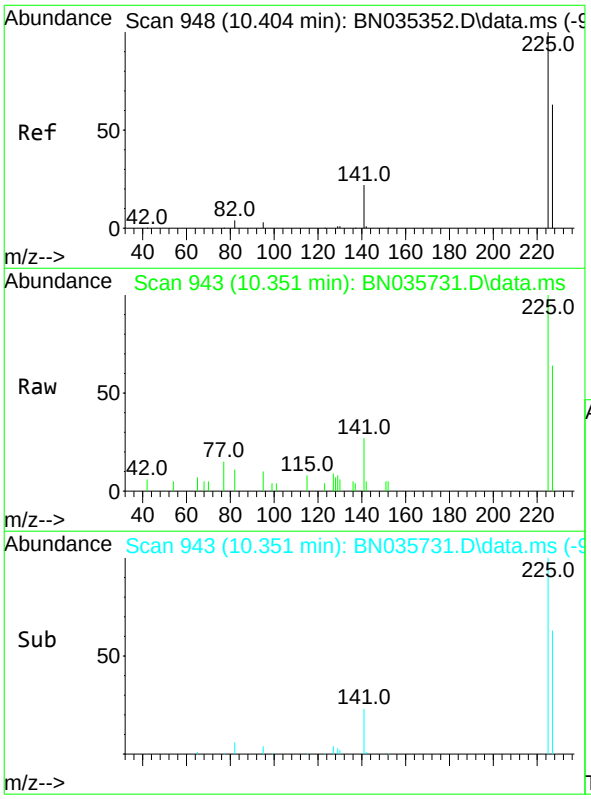
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.4	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

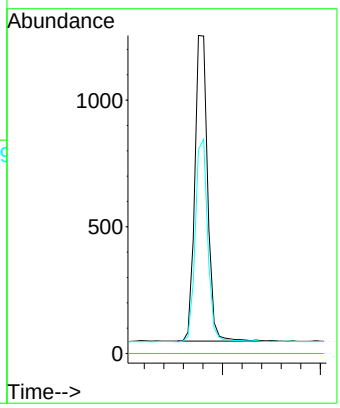


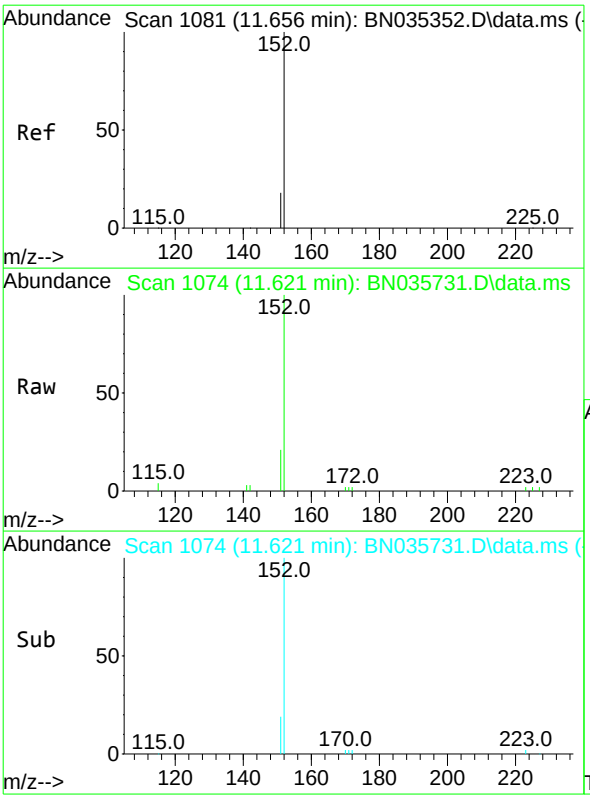


#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:225 Resp: 2194

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 11.621 min Scan# 10
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

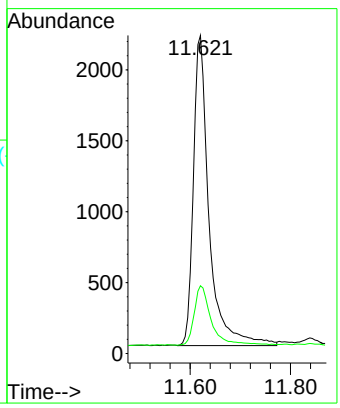
Tgt Ion:152 Resp: 4741

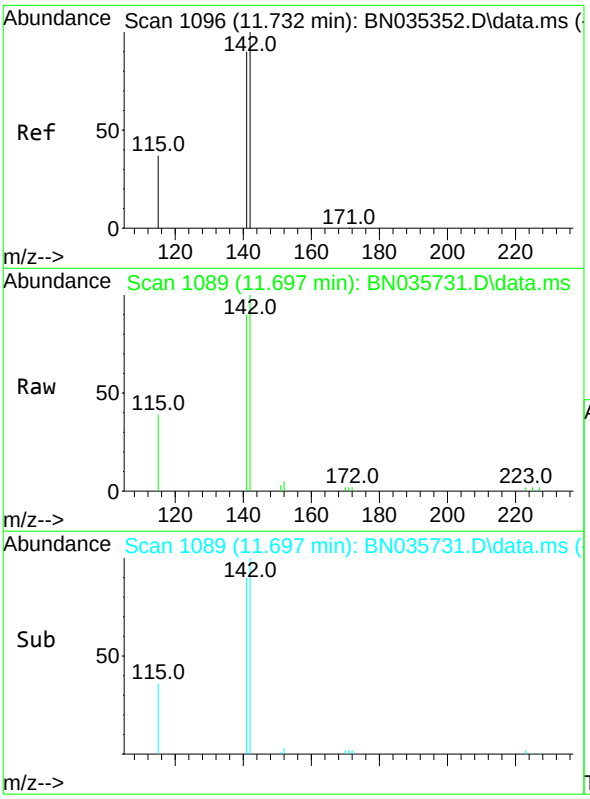
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

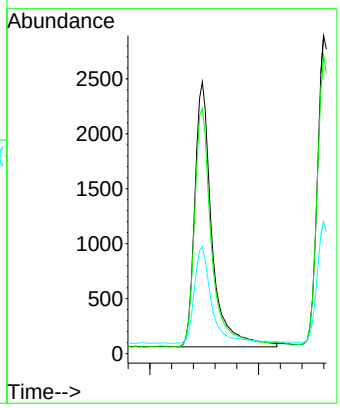


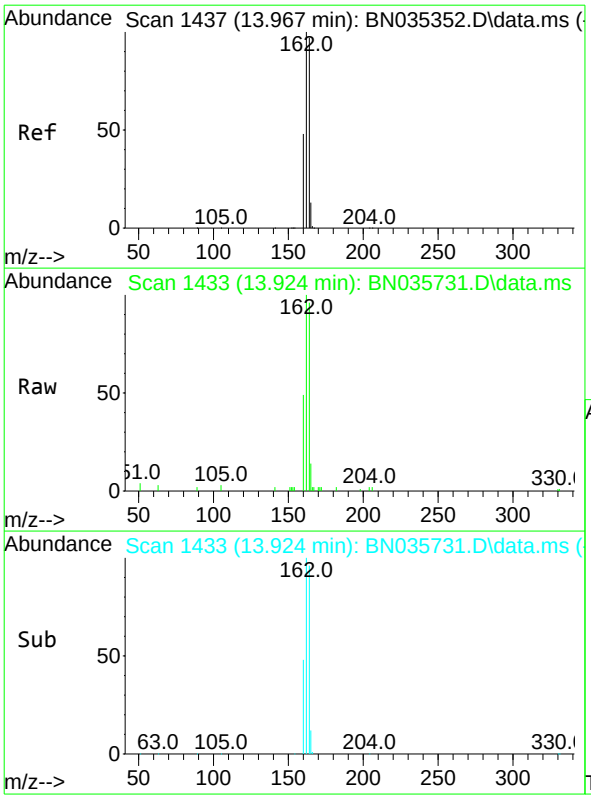


#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:142 Resp: 5286

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	39.2	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

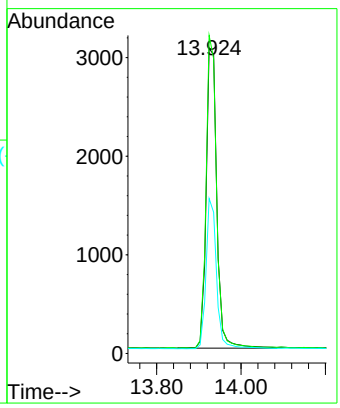
Tgt Ion:164 Resp: 5341

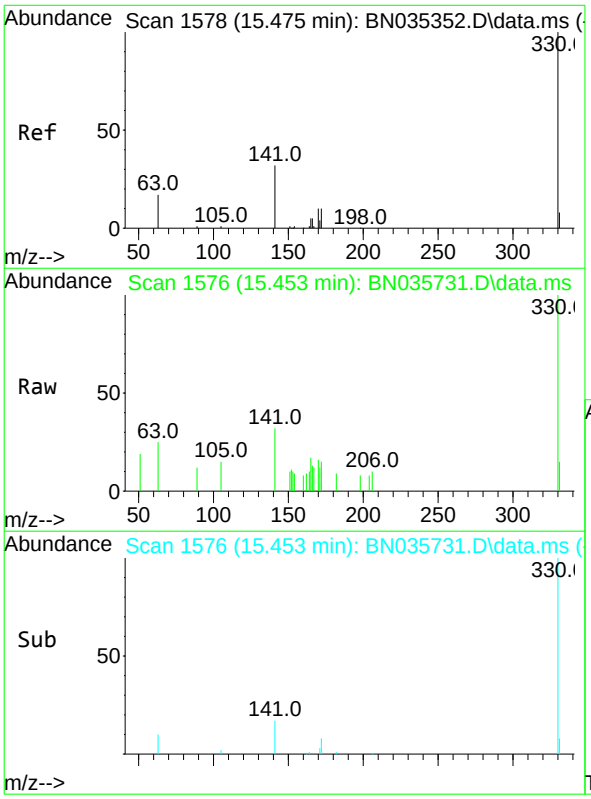
Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	50.8	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

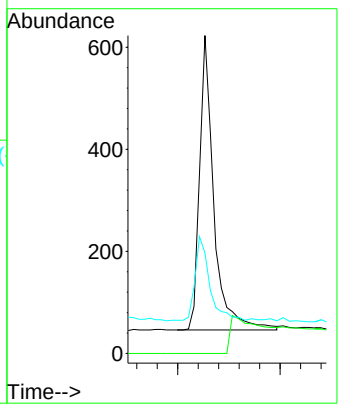


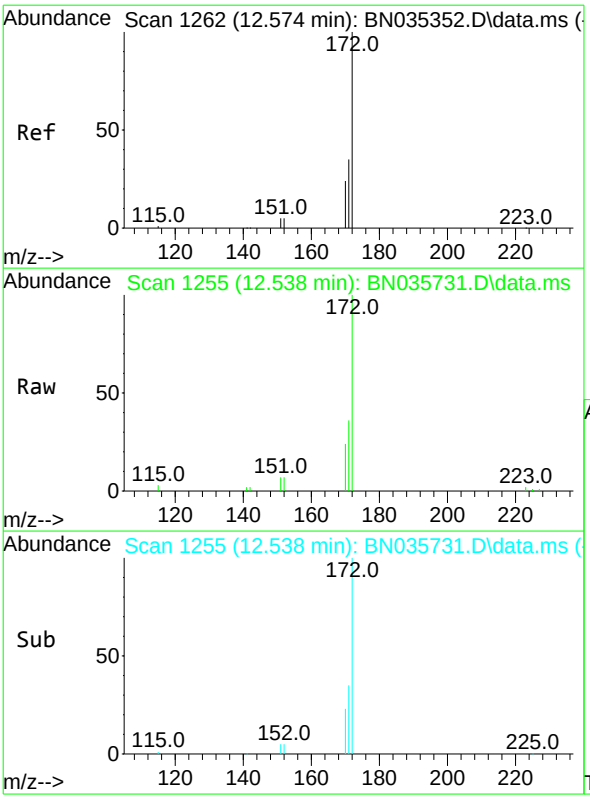


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:330 Resp: 1180

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.6	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.538 min Scan# 12
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

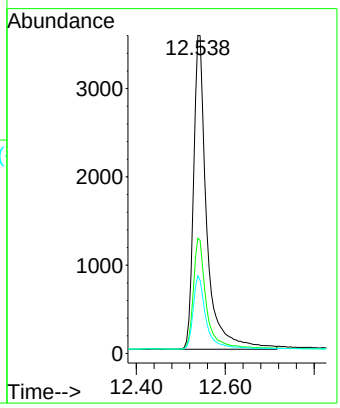
Tgt Ion:172 Resp: 7347

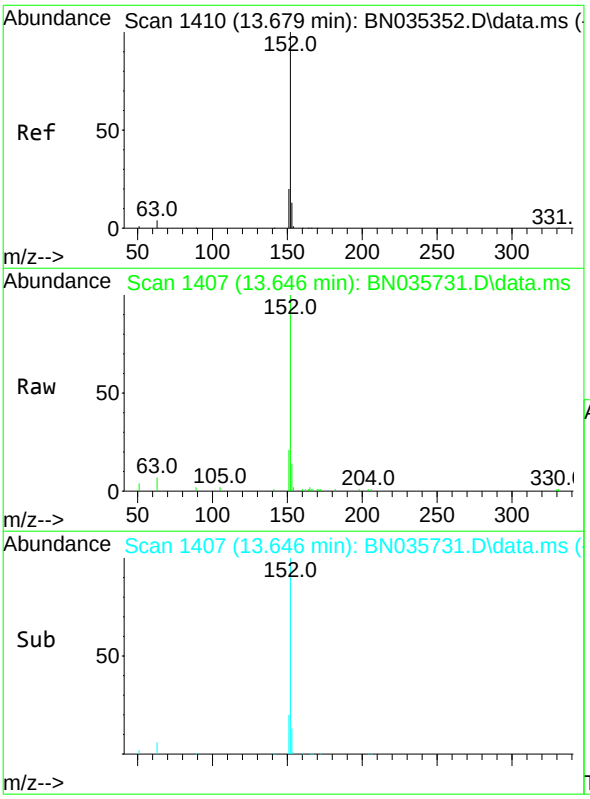
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.5	19.8	29.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

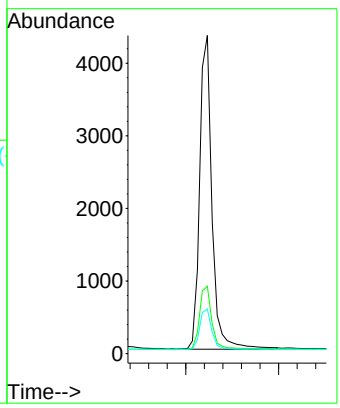


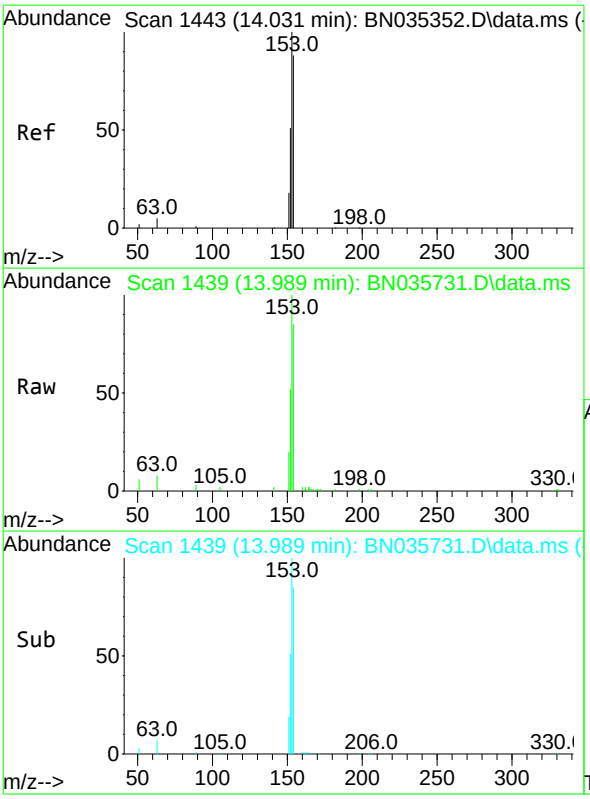


#16
Acenaphthylene
Concen: 0.354 ng
RT: 13.646 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:152 Resp: 7931

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.0	10.4	15.6





#17
Acenaphthene
Concen: 0.359 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

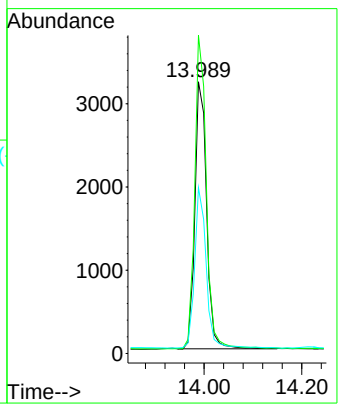
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

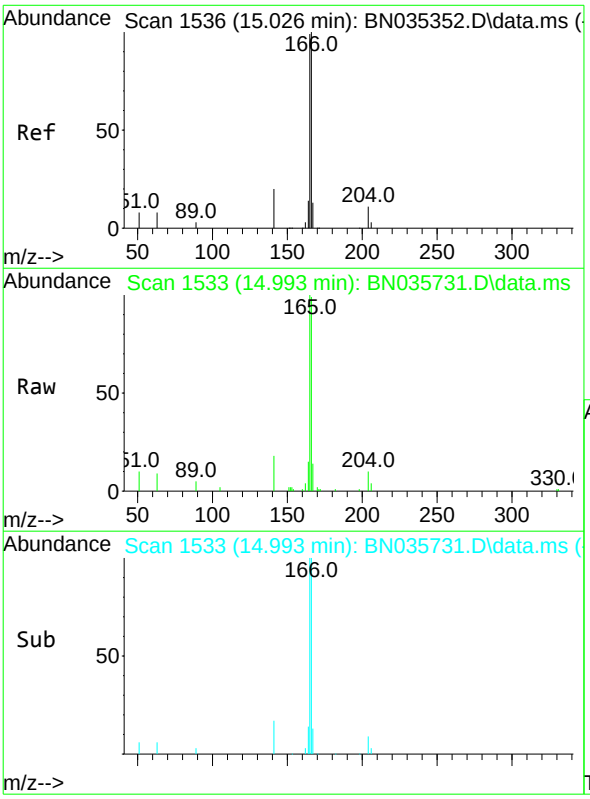
Tgt Ion:154 Resp: 5347

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	59.2	49.0	73.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

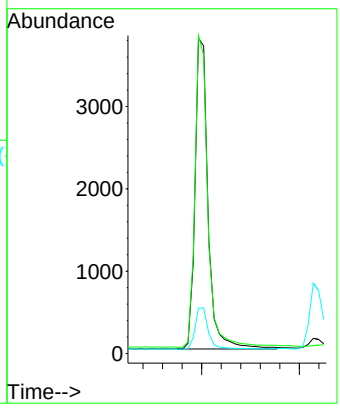


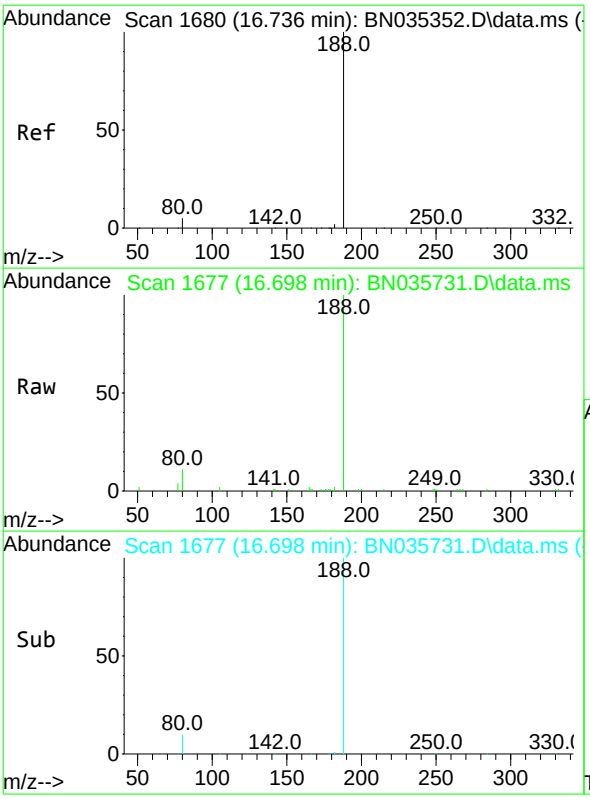


#18
Fluorene
Concen: 0.329 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:166 Resp: 7004

Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.7	119.5
167	13.7	10.8	16.2

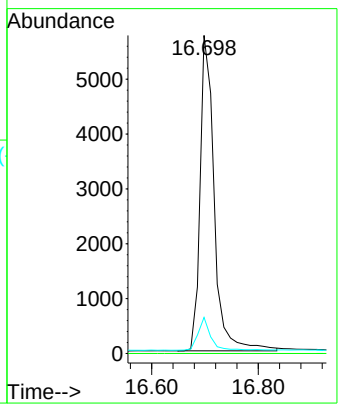




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:188 Resp: 10575

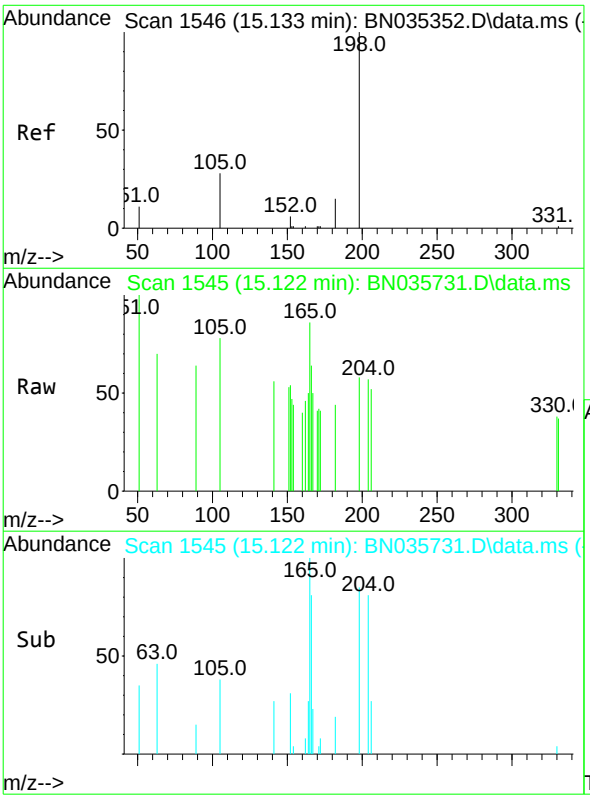
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

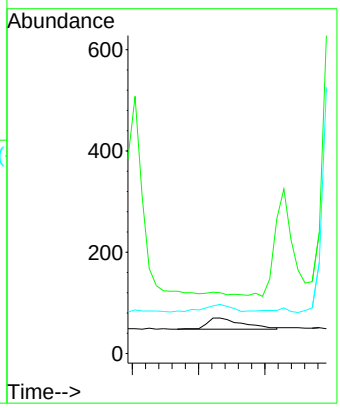
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

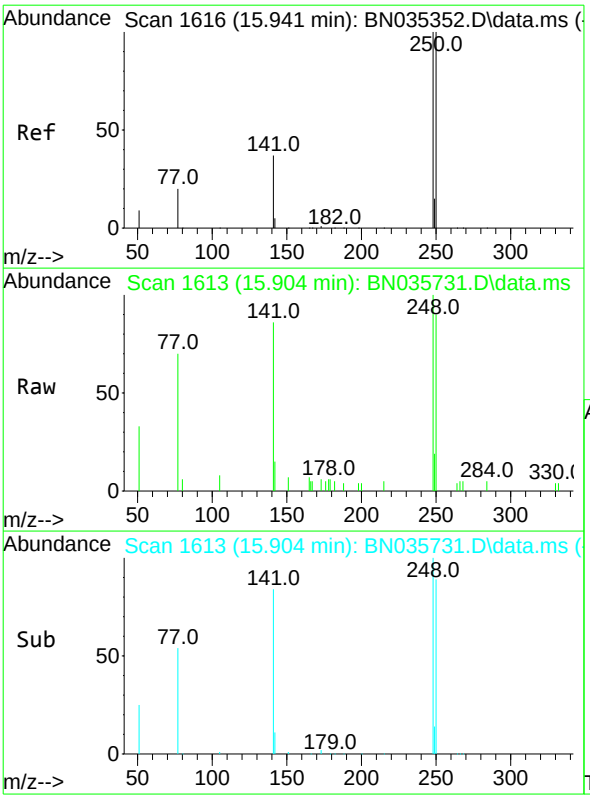


#20
4,6-Dinitro-2-methylphenol
Concen: 0.080 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:198 Resp: 83

Ion	Ratio	Lower	Upper
198	100		
51	172.9	46.5	69.7#
105	134.3	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 15.904 min Scan# 16
Delta R.T. -0.013 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

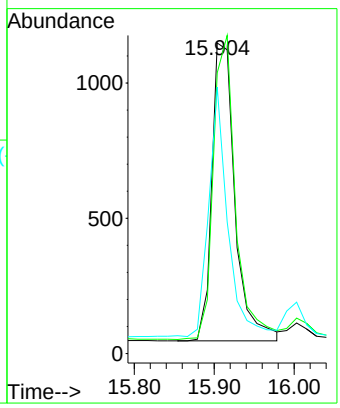
Tgt Ion:248 Resp: 2216

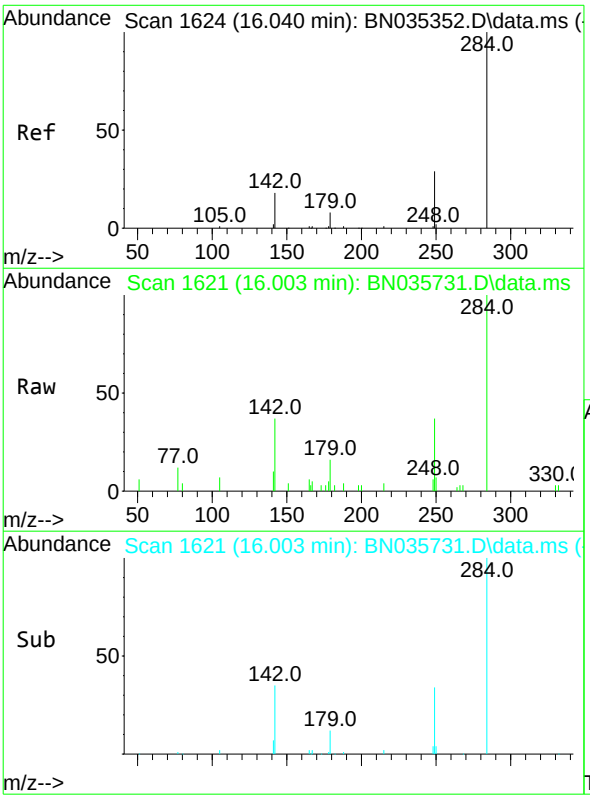
Ion	Ratio	Lower	Upper
248	100		
250	90.4	80.6	120.8
141	85.8	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

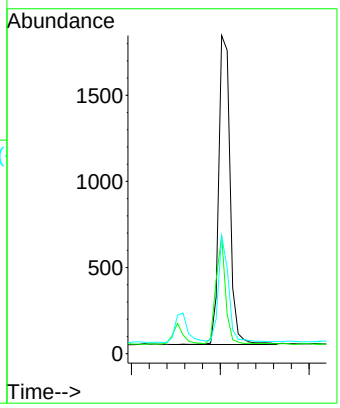


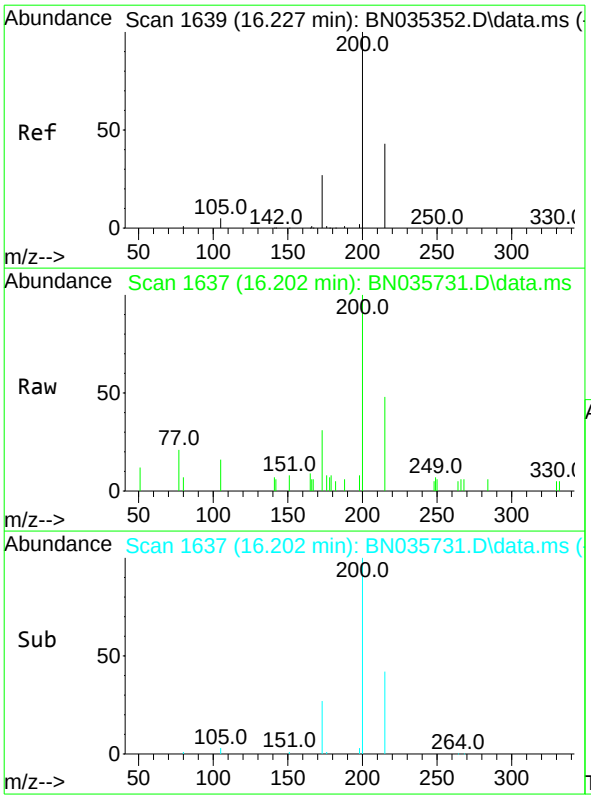


#22
Hexachlorobenzene
Concen: 0.438 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:284 Resp: 3183

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	30.4	24.6	36.8





#23
Atrazine
Concen: 0.385 ng
RT: 16.202 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

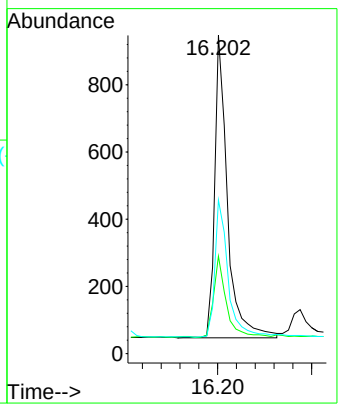
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

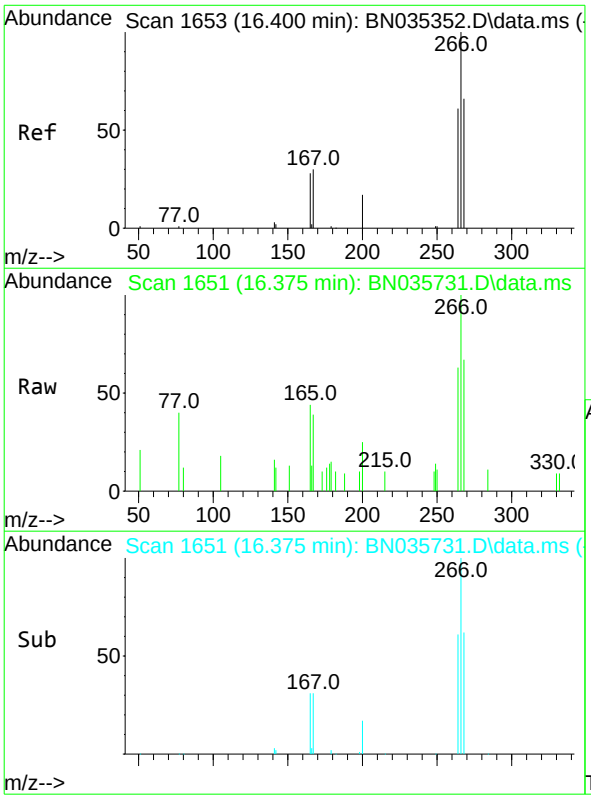
Tgt Ion:200 Resp: 1696

Ion	Ratio	Lower	Upper
200	100		
173	30.6	24.1	36.1
215	48.3	36.9	55.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

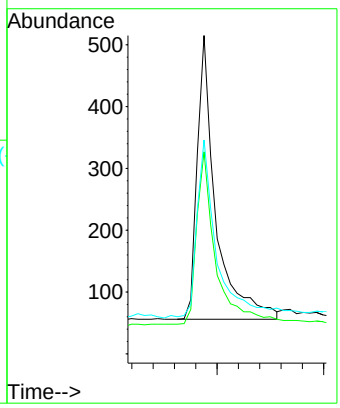


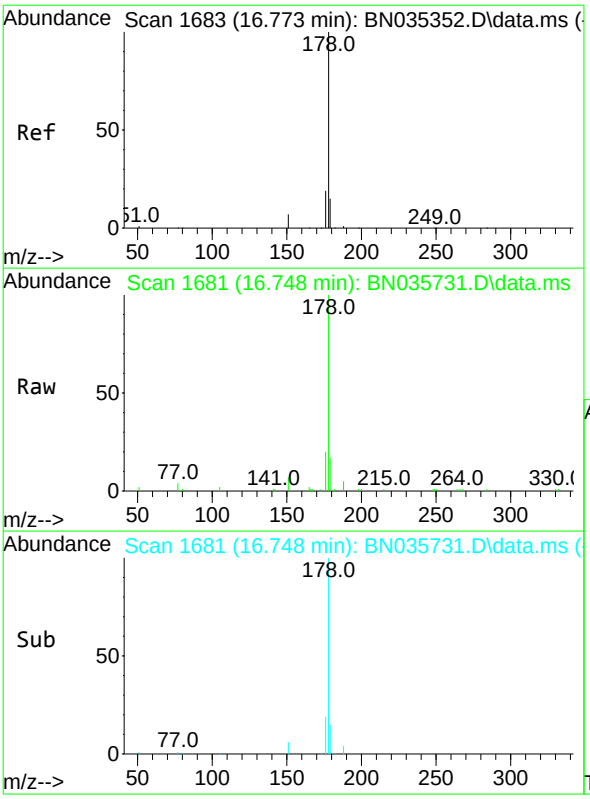


#24
Pentachlorophenol
Concen: 0.350 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:266 Resp: 1107

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	68.5	43.3	64.9#





#25
Phenanthrene
Concen: 0.351 ng
RT: 16.748 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

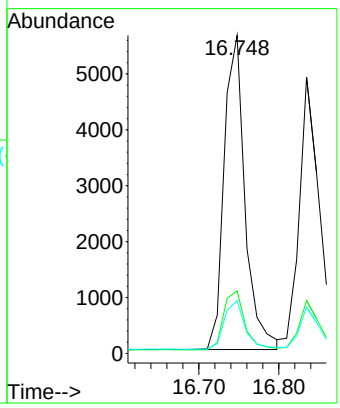
Tgt Ion:178 Resp: 10192

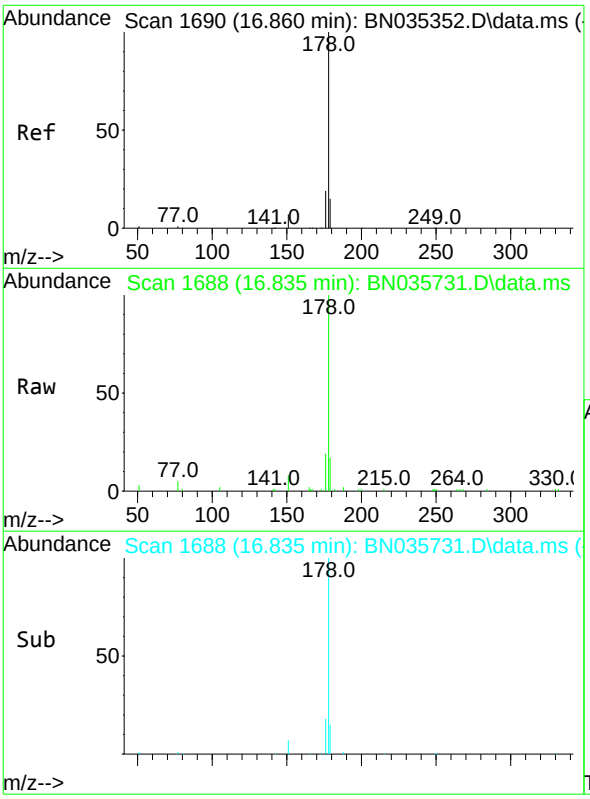
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

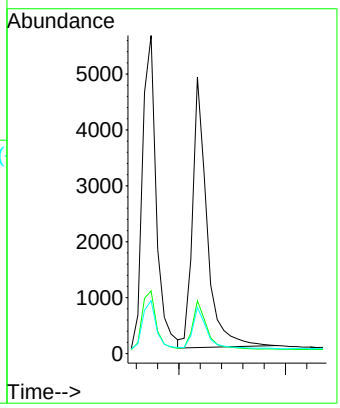


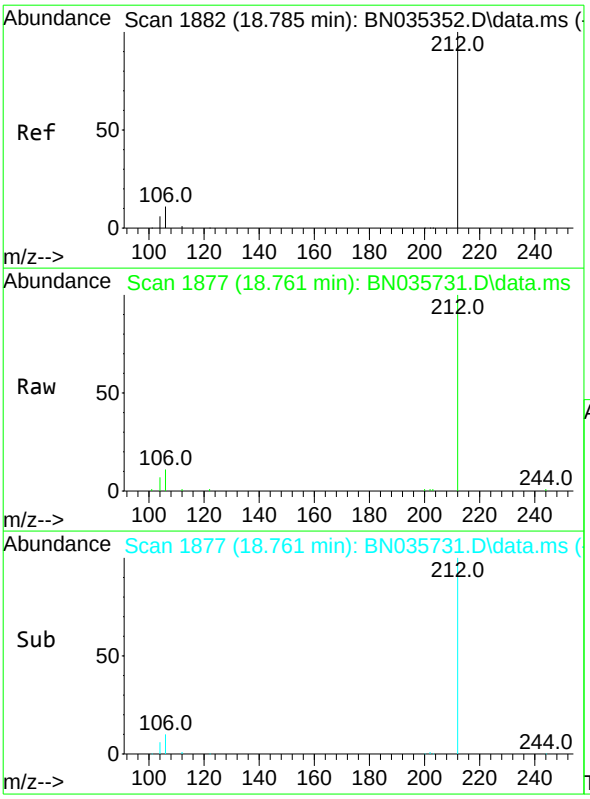


#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:178 Resp: 9082

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	15.6	12.6	18.8





#27
Fluoranthene-d10
Concen: 0.347 ng
RT: 18.761 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

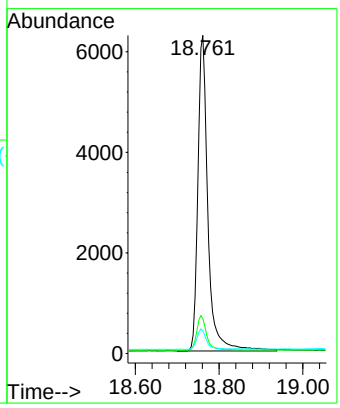
Tgt Ion:212 Resp: 10416

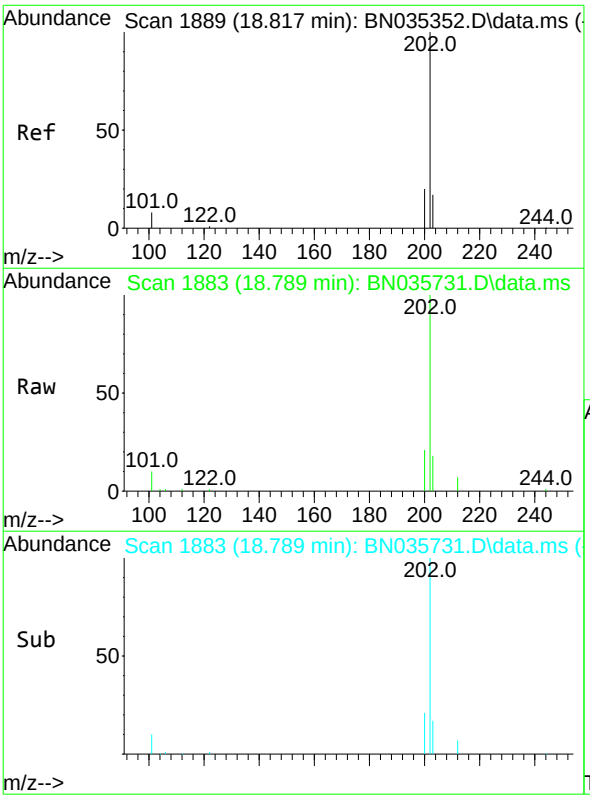
Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.2	13.8
104	6.3	5.3	7.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

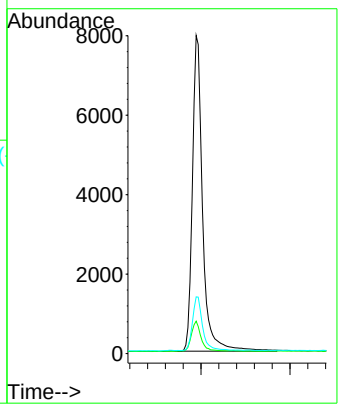


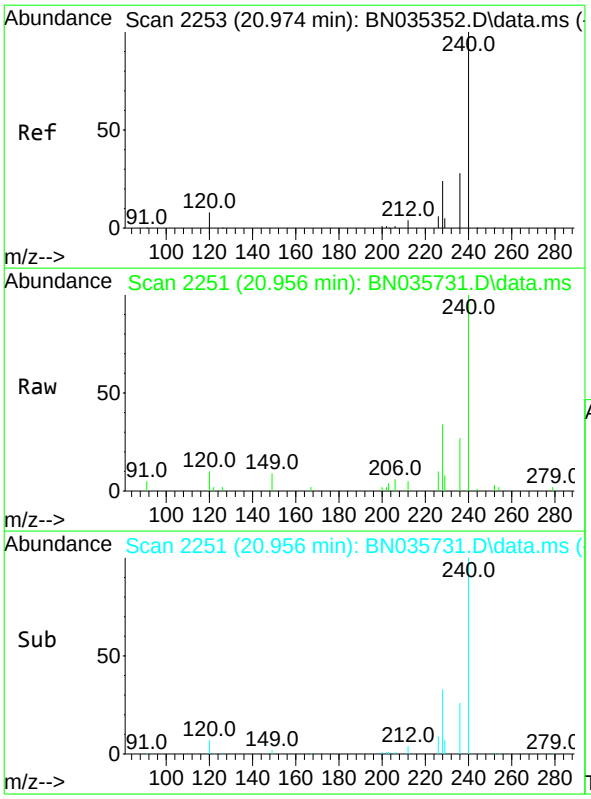


#28
Fluoranthene
Concen: 0.324 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 12678

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.4	11.0
203	16.7	13.7	20.5

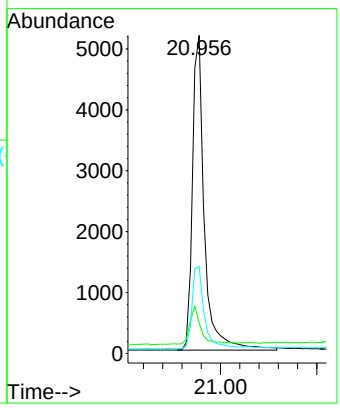




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:240 Resp: 8878

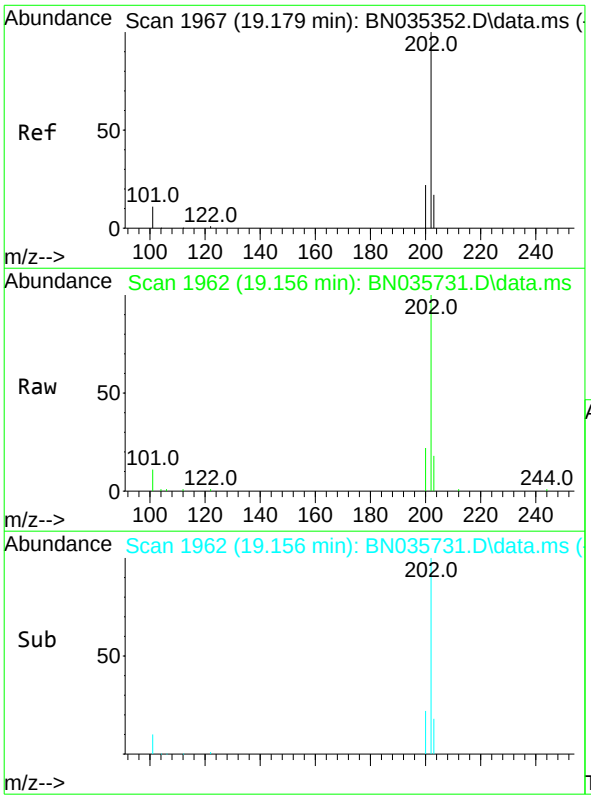
Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	27.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

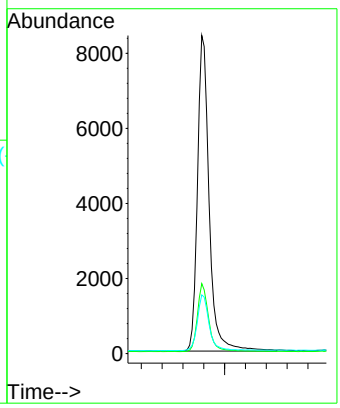
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

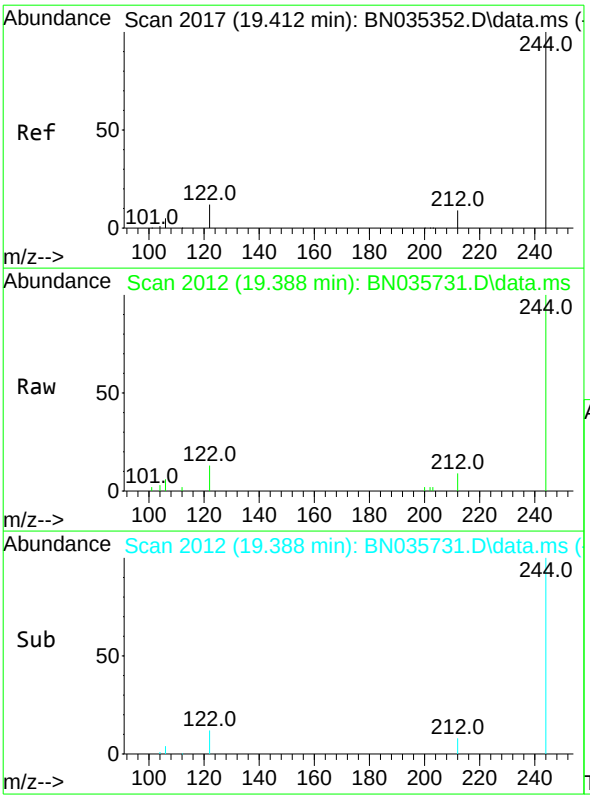


#30
Pyrene
Concen: 0.399 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 13069

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5

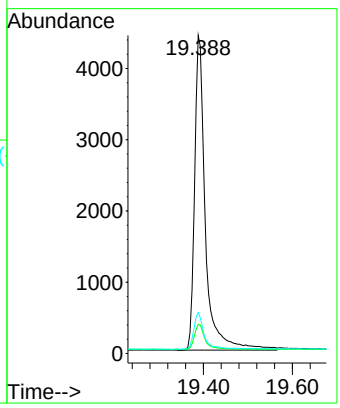




#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.388 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:244 Resp: 7453

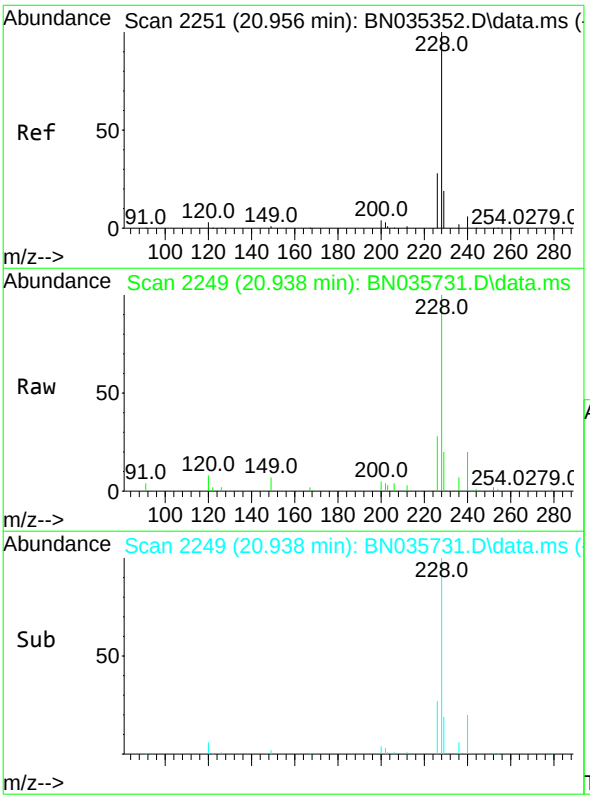
Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

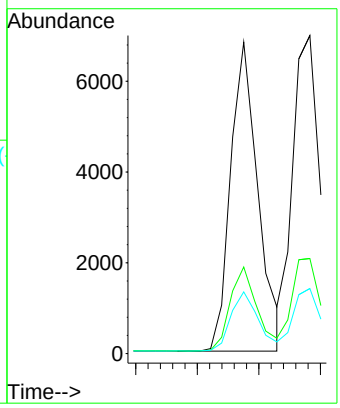
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

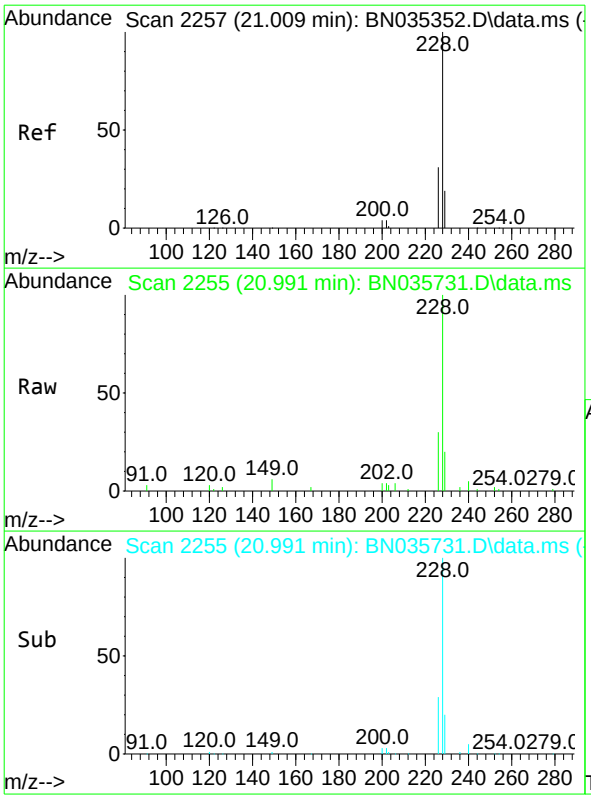


#32
Benzo(a)anthracene
Concen: 0.339 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:228 Resp: 10542

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	19.8	15.8	23.8

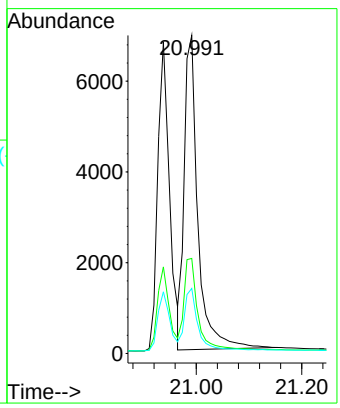




#33
Chrysene
Concen: 0.389 ng
RT: 20.991 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:228 Resp: 12448

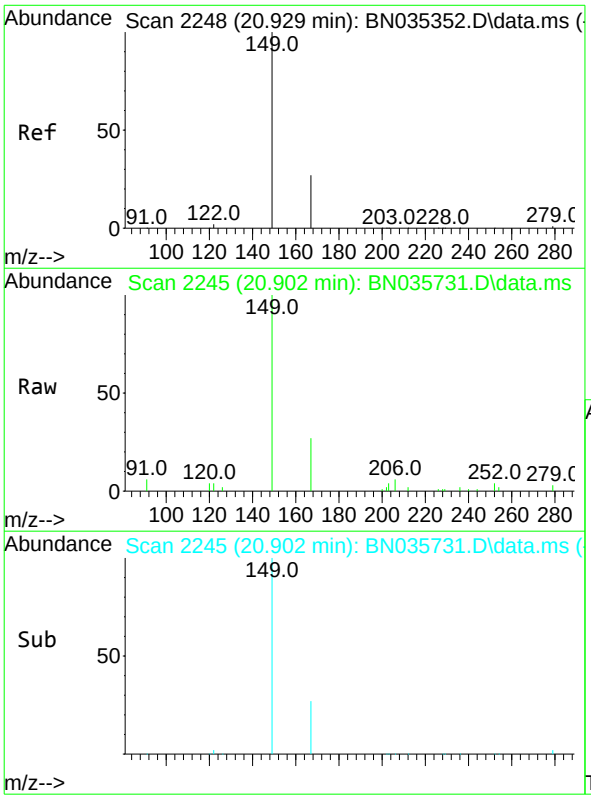
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	20.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

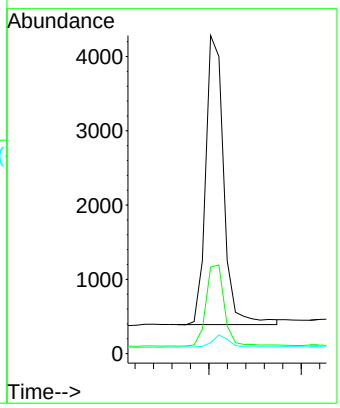
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

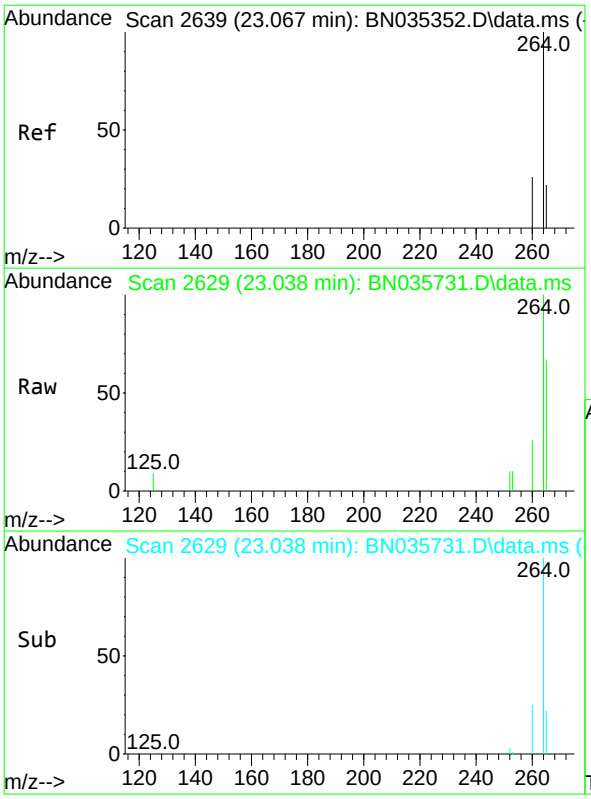


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.430 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:149 Resp: 5271

Ion	Ratio	Lower	Upper
149	100		
167	28.6	22.2	33.4
279	3.9	2.7	4.1

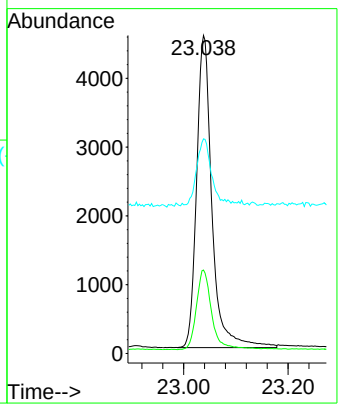




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 26
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:264 Resp: 9229

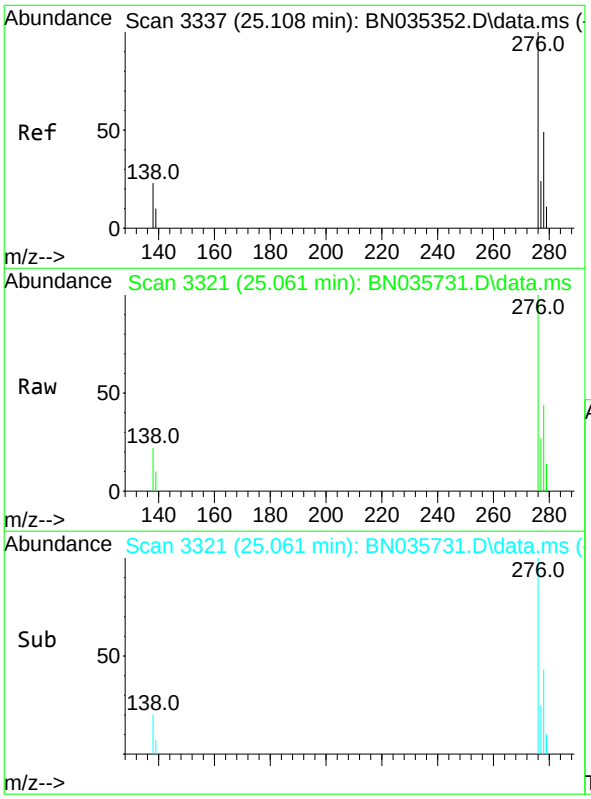
Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	67.5	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

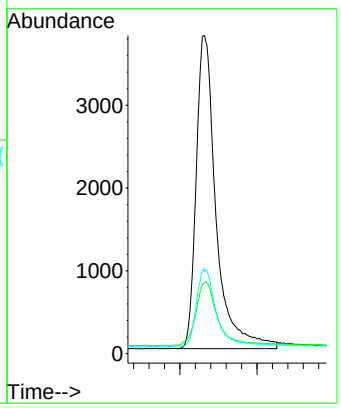
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

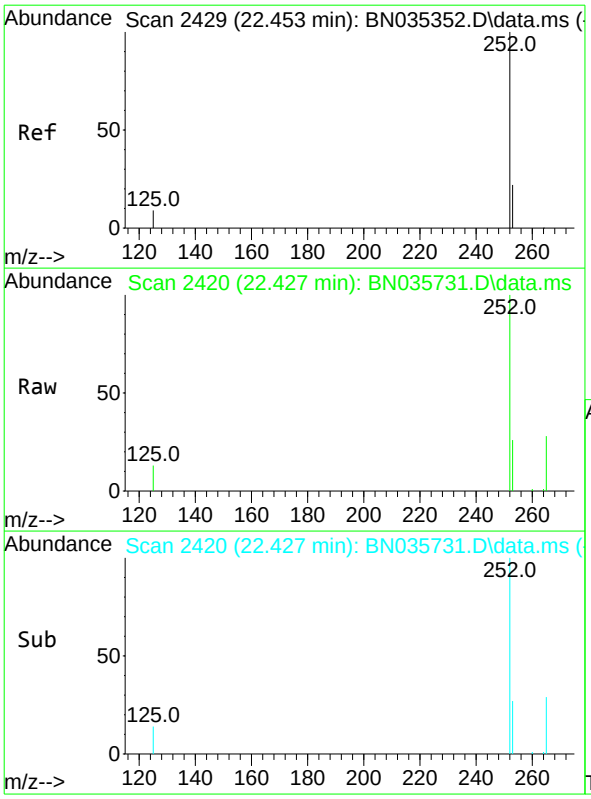


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:276 Resp: 13578

Ion	Ratio	Lower	Upper
276	100		
138	21.2	19.4	29.0
277	24.0	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.438 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

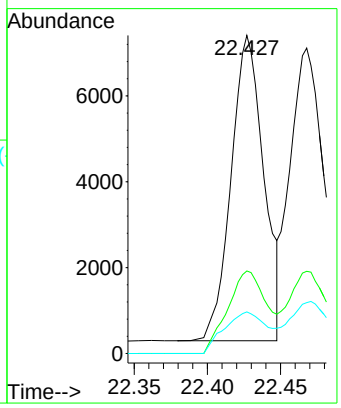
Tgt Ion:252 Resp: 14777

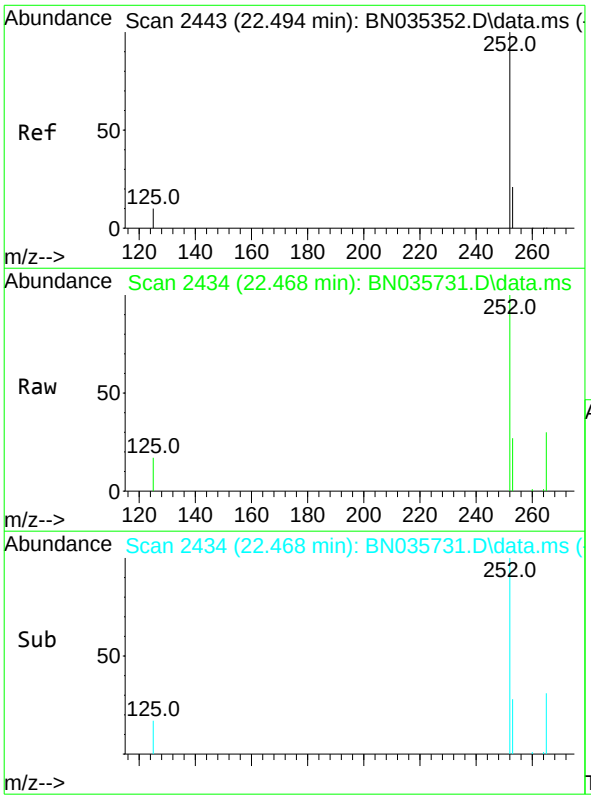
Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	13.1	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

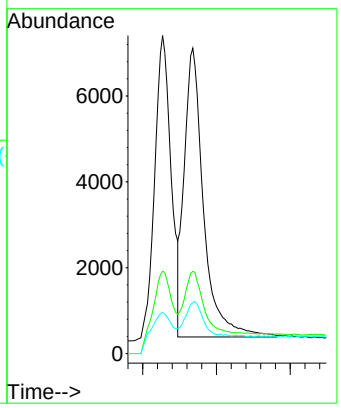


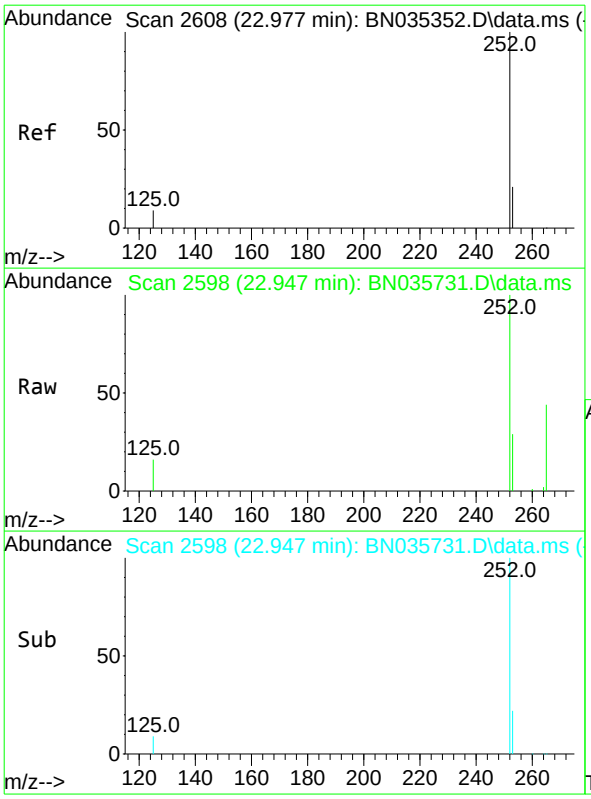


#38
Benzo(k)fluoranthene
Concen: 0.370 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:252 Resp: 12300

Ion	Ratio	Lower	Upper
252	100		
253	26.9	19.5	29.3
125	16.7	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.365 ng
RT: 22.947 min Scan# 25
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

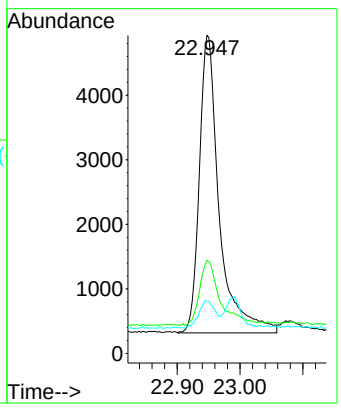
Tgt Ion:252 Resp: 10146

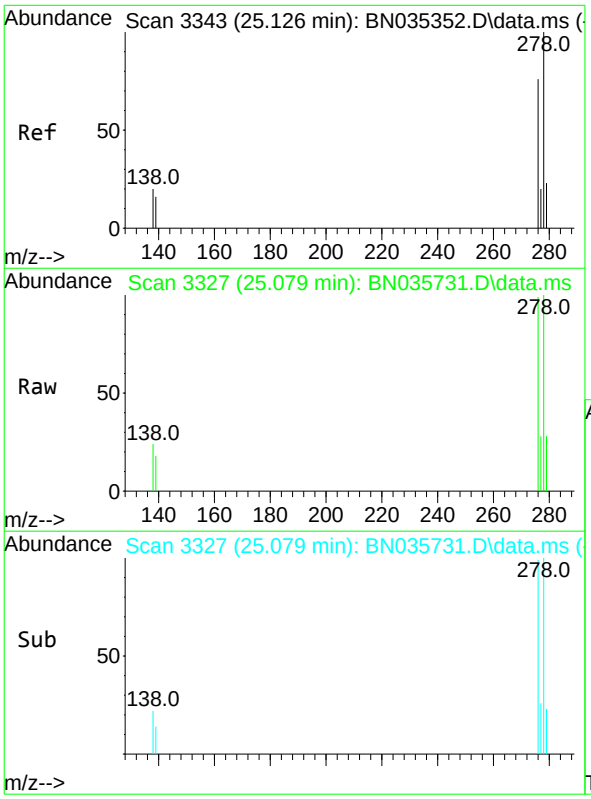
Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	16.5	10.9	16.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

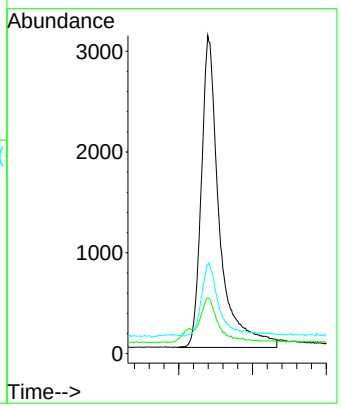


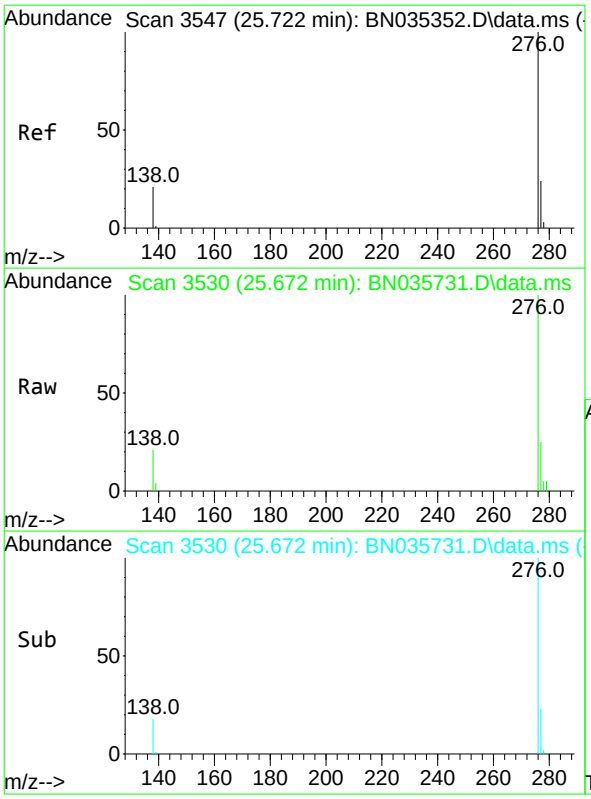


#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:278 Resp: 10523

Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.2	21.4
279	27.9	20.5	30.7

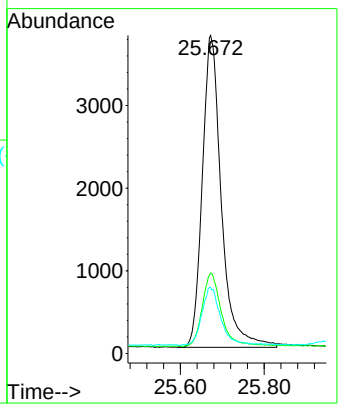




#41
Benzo(g,h,i)perylene
Concen: 0.400 ng
RT: 25.672 min Scan# 35
Delta R.T. -0.006 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:276 Resp: 11906

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	20.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Sample Results: **BN035731.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158#	0.00
2		1,4-Dioxane	0.382	0.405	-6.0	170#	0.00
3		n-Nitrosodimethylamine	0.319	0.330	-3.4	160#	0.00
4	S	2-Fluorophenol	1.001	0.990	1.1	154#	0.00
5	S	Phenol-d6	1.204	1.140	5.3	151#	0.00
6		bis(2-Chloroethyl)ether	1.012	0.922	8.9	147	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	161#	0.00
8	S	Nitrobenzene-d5	0.244	0.284	-16.4	195#	0.00
9		Naphthalene	1.055	0.988	6.4	152#	0.00
10		Hexachlorobutadiene	0.243	0.260	-7.0	170#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.562	10.2	146	0.00
12		2-Methylnaphthalene	0.755	0.627	17.0	137	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.221	22.2	121	0.00
15	S	2-Fluorobiphenyl	1.512	1.376	9.0	128	0.00
16		Acenaphthylene	1.680	1.485	11.6	131	0.00
17		Acenaphthene	1.115	1.001	10.2	130	-0.01
18		Fluorene	1.596	1.311	17.9	119	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.008	79.5#	25#	0.00
21		4-Bromophenyl-phenylether	0.234	0.210	10.3	103	-0.01
22		Hexachlorobenzene	0.275	0.301	-9.5	123	-0.01
23		Atrazine	0.167	0.160	4.2	116	0.00
24		Pentachlorophenol	0.120	0.105	12.5	122	0.00
25		Phenanthrene	1.099	0.964	12.3	101	0.00
26		Anthracene	0.994	0.859	13.6	102	0.00
27	SURR	Fluoranthene-d10	1.134	0.985	13.1	102	0.00
28		Fluoranthene	1.481	1.199	19.0	94	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30		Pyrene	1.477	1.472	0.3	93	0.00
31	S	Terphenyl-d14	0.789	0.839	-6.3	99	0.00
32		Benzo(a)anthracene	1.399	1.187	15.2	82	0.00
33		Chrysene	1.443	1.402	2.8	91	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.594	-7.4	107	0.00
35	I	Perylene-d12	1.000	1.000	0.0	85	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.471	5.9	82	0.00
37		Benzo(b)fluoranthene	1.463	1.601	-9.4	104	0.00
38		Benzo(k)fluoranthene	1.440	1.333	7.4	81	0.00
39	C	Benzo(a)pyrene	1.205	1.099	8.8	82	0.00
40		Dibenzo(a,h)anthracene	1.234	1.140	7.6	81	0.00
41		Benzo(g,h,i)perylene	1.289	1.290	-0.1	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035731.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	158	0.00
2		1,4-Dioxane	0.400	0.424	-6.0	170	0.00
3		n-Nitrosodimethylamine	0.400	0.415	-3.7	160	0.00
4	S	2-Fluorophenol	0.400	0.396	1.0	154	0.00
5	S	Phenol-d6	0.400	0.379	5.3	151	0.00
6		bis(2-Chloroethyl)ether	0.400	0.365	8.8	147	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	161	0.00
8	S	Nitrobenzene-d5	0.400	0.466	-16.5	195	0.00
9		Naphthalene	0.400	0.375	6.3	152	0.00
10		Hexachlorobutadiene	0.400	0.428	-7.0	170	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.359	10.3	146	0.00
12		2-Methylnaphthalene	0.400	0.332	17.0	137	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.311	22.3	121	0.00
15	S	2-Fluorobiphenyl	0.400	0.364	9.0	128	0.00
16		Acenaphthylene	0.400	0.354	11.5	131	0.00
17		Acenaphthene	0.400	0.359	10.3	130	-0.01
18		Fluorene	0.400	0.329	17.8	119	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.080	80.0#	25	0.00
21		4-Bromophenyl-phenylether	0.400	0.358	10.5	103	-0.01
22		Hexachlorobenzene	0.400	0.438	-9.5	123	-0.01
23		Atrazine	0.400	0.385	3.8	116	0.00
24		Pentachlorophenol	0.400	0.350	12.5	122	0.00
25		Phenanthrene	0.400	0.351	12.3	101	0.00
26		Anthracene	0.400	0.346	13.5	102	0.00
27	SURR	Fluoranthene-d10	0.400	0.347	13.3	102	0.00
28		Fluoranthene	0.400	0.324	19.0	94	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30		Pyrene	0.400	0.399	0.3	93	0.00
31	S	Terphenyl-d14	0.400	0.426	-6.5	99	0.00
32		Benzo(a)anthracene	0.400	0.339	15.3	82	0.00
33		Chrysene	0.400	0.389	2.8	91	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.430	-7.5	107	0.00
35	I	Perylene-d12	0.400	0.400	0.0	85	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	82	0.00
37		Benzo(b)fluoranthene	0.400	0.438	-9.5	104	0.00
38		Benzo(k)fluoranthene	0.400	0.370	7.5	81	0.00
39	C	Benzo(a)pyrene	0.400	0.365	8.8	82	0.00
40		Dibenzo(a,h)anthracene	0.400	0.370	7.5	81	0.00
41		Benzo(g,h,i)perylene	0.400	0.400	0.0	88	0.00

(#) = 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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 18:18

Lab File ID: BN035747.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.618		-1.3	50.0
Fluoranthene-d10	1.134	1.034		-8.8	50.0
2-Fluorophenol	1.001	0.002		-99.8	50.0
Phenol-d6	1.204	0.025		-97.9	50.0
Nitrobenzene-d5	0.244	0.005		-98.0	50.0
2-Fluorobiphenyl	1.512	0.002		-99.9	50.0
2,4,6-Tribromophenol	0.284	0.001		-99.6	50.0
Terphenyl-d14	0.789	0.003		-99.6	50.0
1,4-Dioxane	0.382	0.448		17.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.272	152	4145	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	11402	0.400	ng		-0.01
13) Acenaphthene-d10	13.924	164	7019	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	13951	0.400	ng	#	0.00
29) Chrysene-d12	20.956	240	11878	0.400	ng		0.00
35) Perylene-d12	23.038	264	12200	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	10	0.001	ng		-0.01
5) Phenol-d6	6.484	99	102	0.008	ng		0.00
8) Nitrobenzene-d5	8.408	82	53m	0.008	ng		0.00
11) 2-Methylnaphthalene-d10	11.616	152	7049	0.395	ng		0.00
14) 2,4,6-Tribromophenol	15.443	330	9	0.002	ng		-0.01
15) 2-Fluorobiphenyl	12.544	172	12	0.000	ng		0.00
27) Fluoranthene-d10	18.757	212	14421	0.365	ng		0.00
31) Terphenyl-d14	19.393	244	35	0.001	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1859	0.469	ng		99
3) n-Nitrosodimethylamine	3.234	42	56	0.017	ng	#	1
6) bis(2-Chloroethyl)ether	6.723	93	4332	0.413	ng		98
9) Naphthalene	10.063	128	12423	0.413	ng		99
10) Hexachlorobutadiene	10.351	225	3142	0.453	ng	#	99
12) 2-Methylnaphthalene	11.692	142	8345	0.388	ng		99
16) Acenaphthylene	13.636	152	11936	0.405	ng		100
17) Acenaphthene	13.989	154	8162	0.417	ng		98
18) Fluorene	14.993	166	10307	0.368	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	168	0.122	ng	#	3
21) 4-Bromophenyl-phenylether	15.904	248	3188	0.391	ng	#	83
22) Hexachlorobenzene	16.003	284	4408	0.460	ng		97
23) Atrazine	16.202	200	27	0.005	ng	#	1
24) Pentachlorophenol	16.376	266	1329	0.319	ng		86
25) Phenanthrene	16.735	178	15452	0.403	ng		100
26) Anthracene	16.835	178	14156	0.408	ng		99
28) Fluoranthene	18.789	202	18255	0.353	ng		100
30) Pyrene	19.156	202	19874	0.453	ng		100
32) Benzo(a)anthracene	20.938	228	16354	0.394	ng		99
33) Chrysene	20.991	228	18340	0.428	ng		98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7490	0.456	ng		98
36) Indeno(1,2,3-cd)pyrene	25.061	276	21102	0.442	ng		99
37) Benzo(b)fluoranthene	22.427	252	21982	0.493	ng		99
38) Benzo(k)fluoranthene	22.468	252	19139m	0.436	ng		
39) Benzo(a)pyrene	22.947	252	15636	0.425	ng		98
40) Dibenzo(a,h)anthracene	25.082	278	15847	0.421	ng		98
41) Benzo(g,h,i)perylene	25.675	276	16995	0.432	ng		98

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

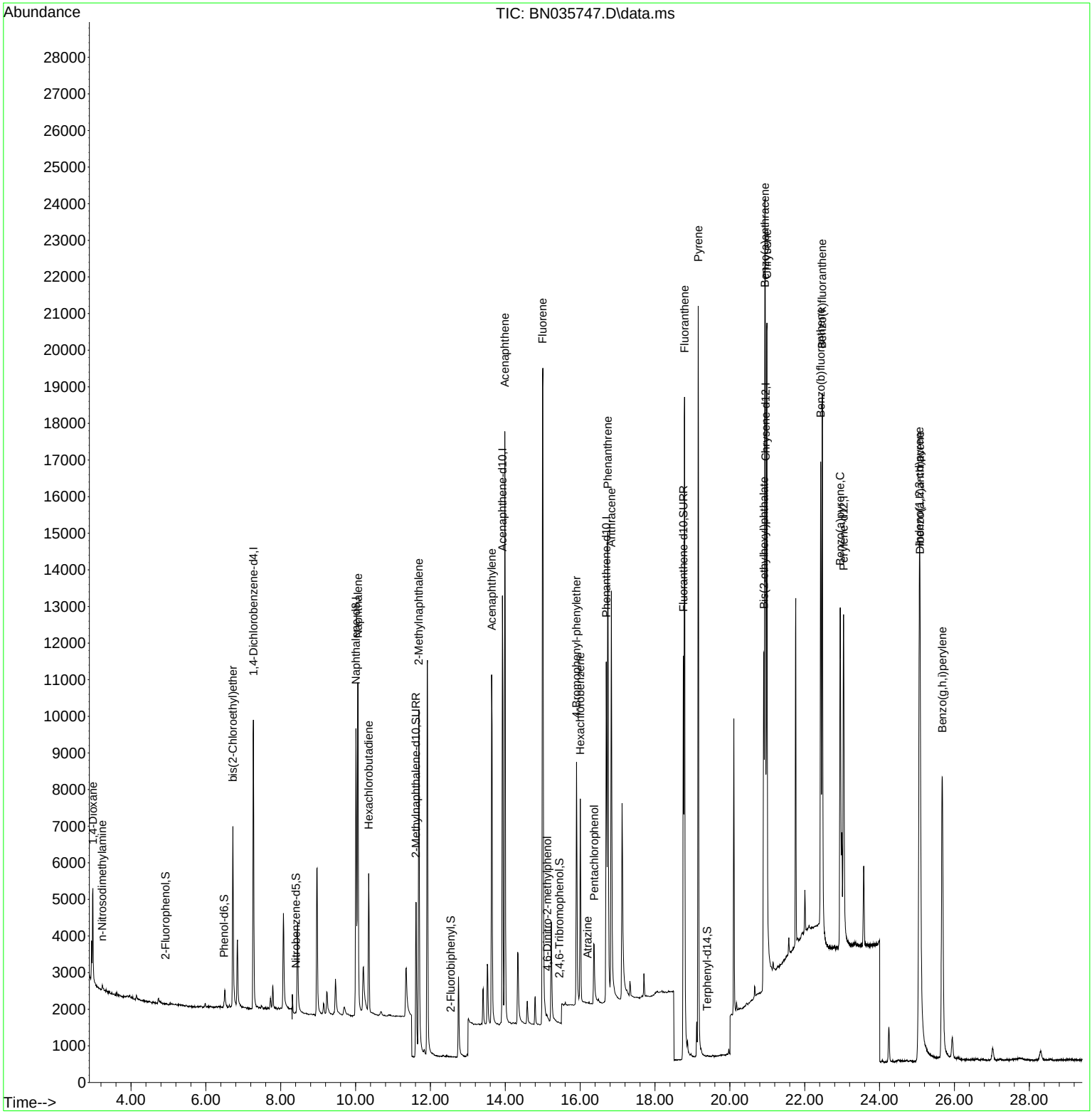
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

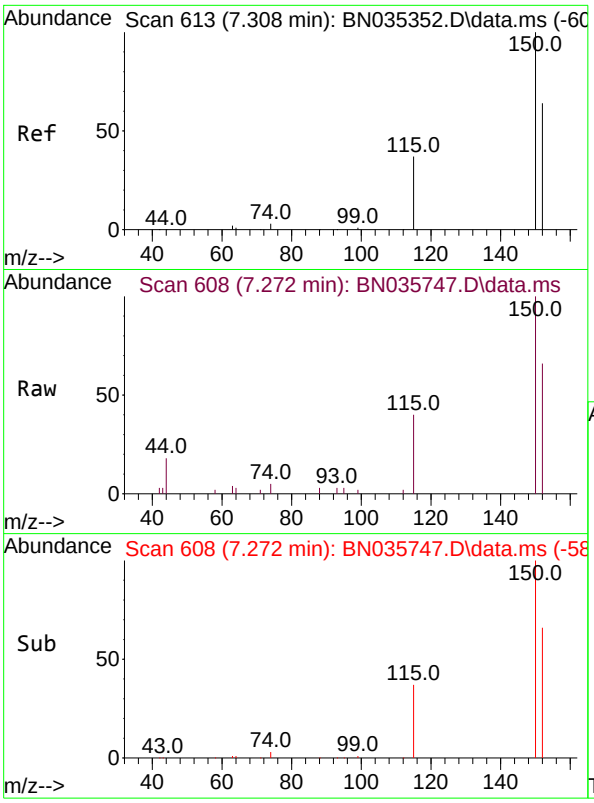
Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

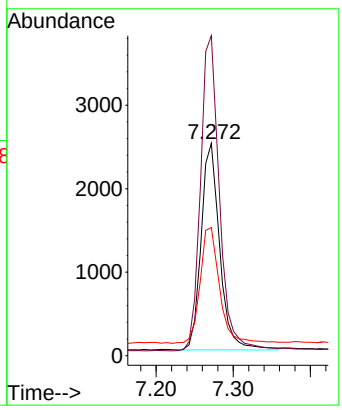




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 6(
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 414

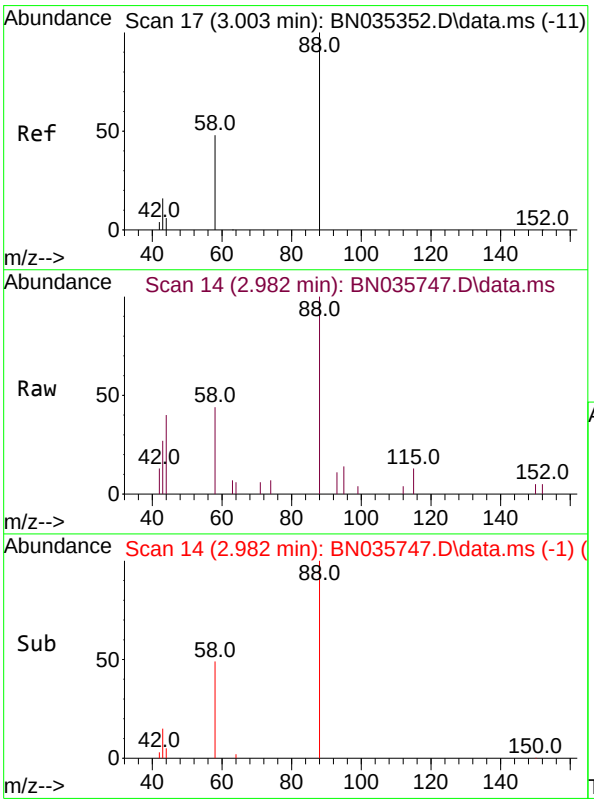
Ion	Ratio	Lower	Upper
152	100		
150	150.8	124.0	186.0
115	60.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

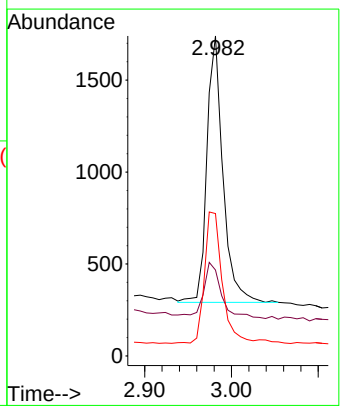
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

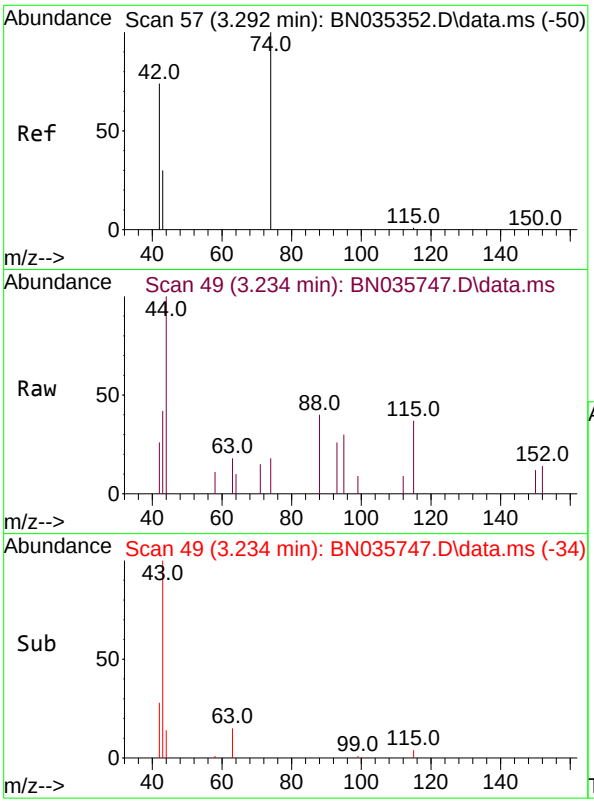


#2
1,4-Dioxane
Concen: 0.469 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 88 Resp: 1859

Ion	Ratio	Lower	Upper
88	100		
43	23.8	17.2	25.8
58	55.6	44.5	66.7

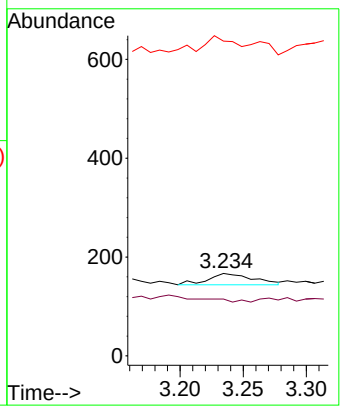




#3
n-Nitrosodimethylamine
Concen: 0.017 ng
RT: 3.234 min Scan# 4
Delta R.T. -0.044 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 42 Resp: 5

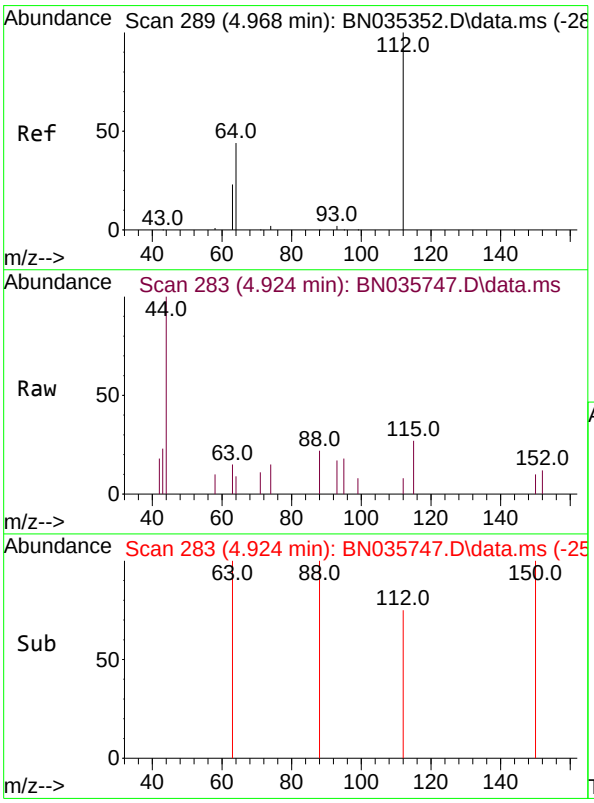
Ion	Ratio	Lower	Upper
42	100		
74	0.0	124.9	187.3#
44	94.6	2.2	3.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

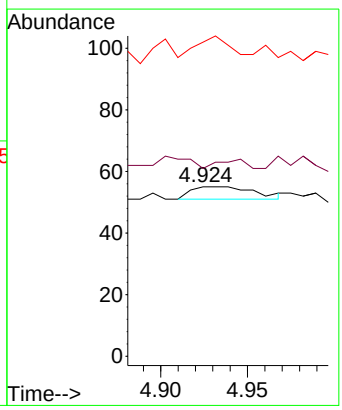
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

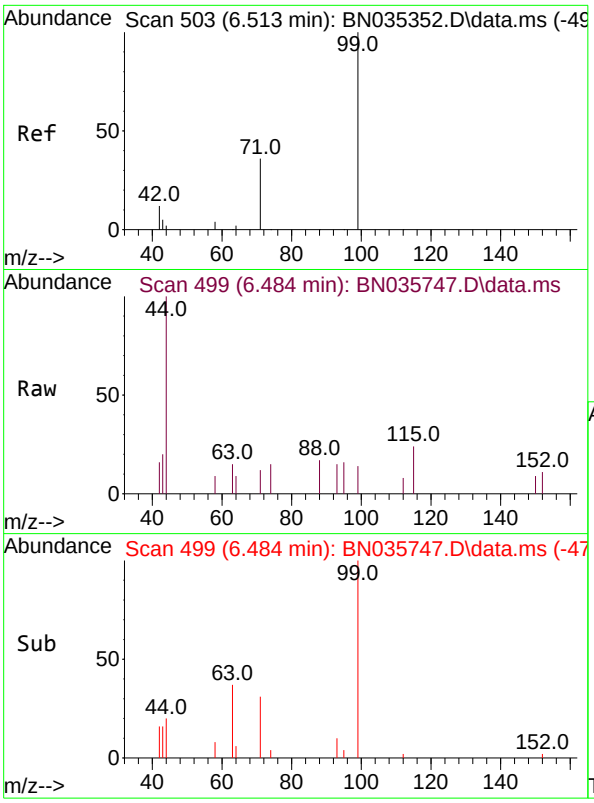


#4
2-Fluorophenol
Concen: 0.001 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:112 Resp: 10

Ion	Ratio	Lower	Upper
112	100		
64	0.0	39.8	59.8#
63	140.0	21.0	31.6#





#5
Phenol-d6
Concen: 0.008 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

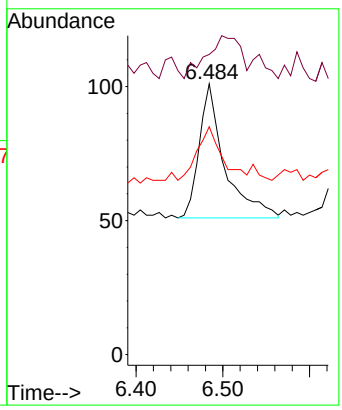
Tgt Ion: 99 Resp: 10

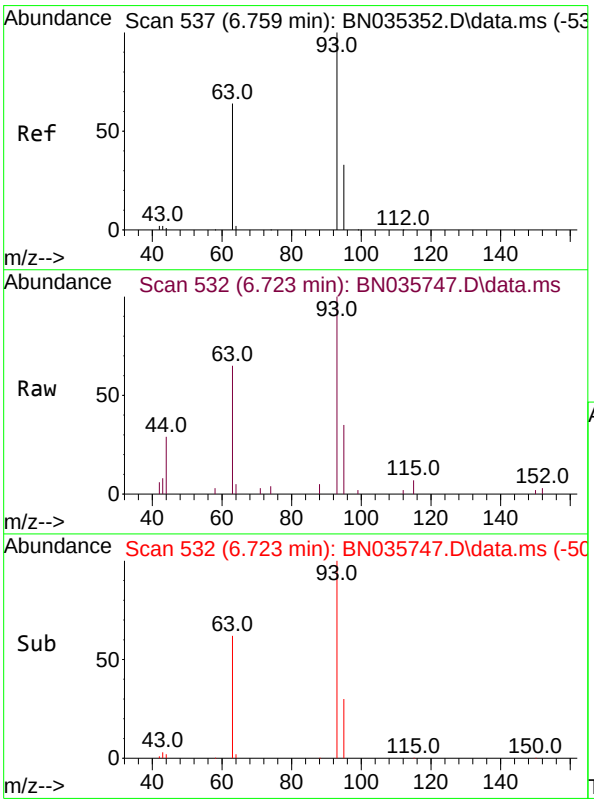
Ion	Ratio	Lower	Upper
99	100		
42	42.2	11.4	17.2
71	39.2	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

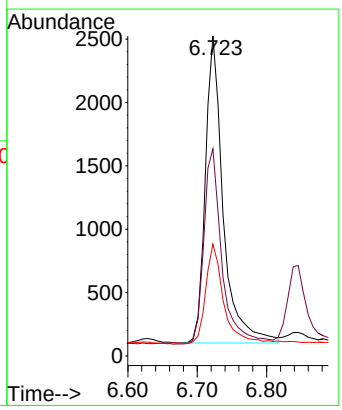


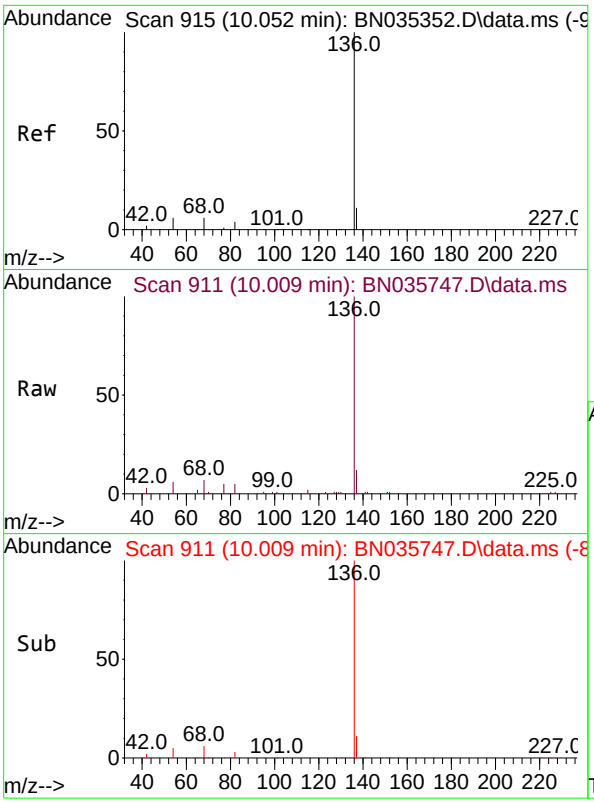


#6
bis(2-Chloroethyl)ether
Concen: 0.413 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 93 Resp: 4332

Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	33.6	25.7	38.5

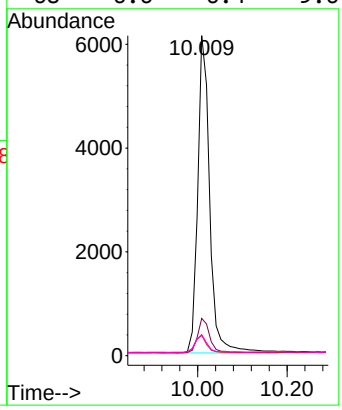




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:136 Resp: 1140

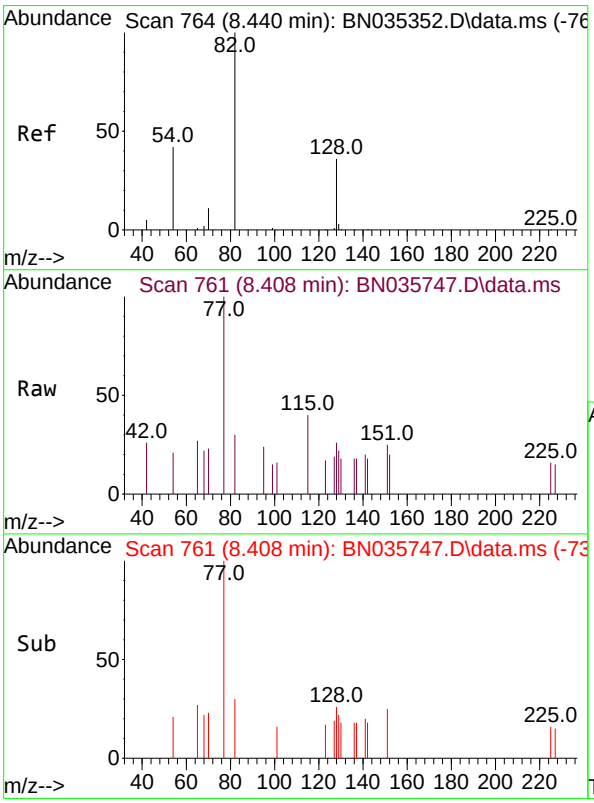
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.2	15.2
54	6.3	6.1	9.1
68	6.6	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

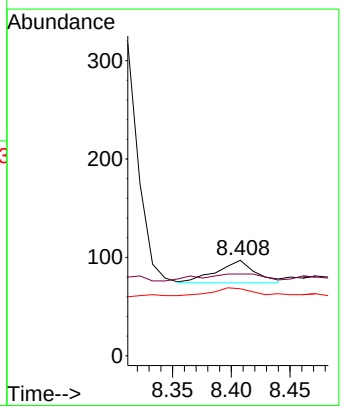
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

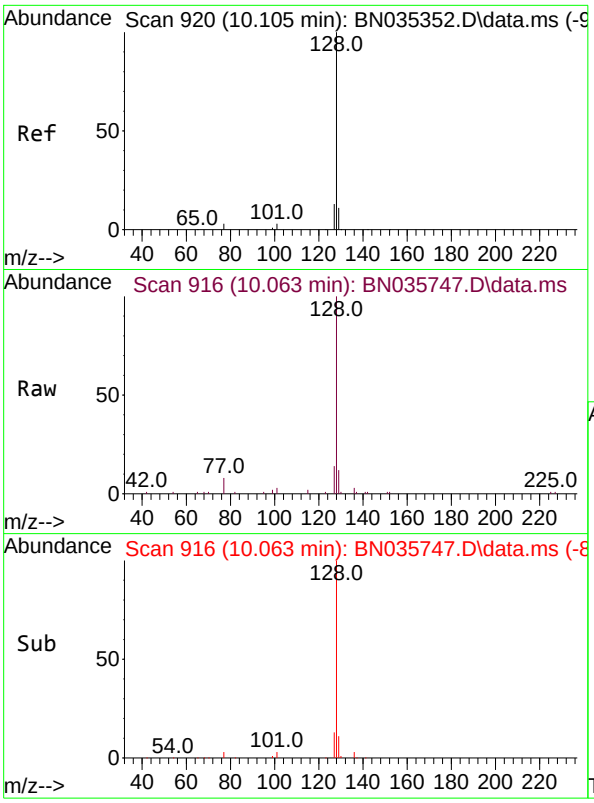


#8
Nitrobenzene-d5
Concen: 0.008 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 82 Resp: 53

Ion	Ratio	Lower	Upper
82	100		
128	85.6	33.4	50.0#
54	70.1	36.7	55.1#

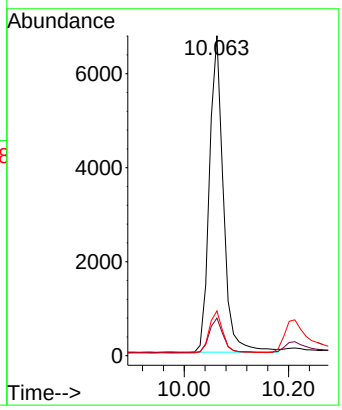




#9
Naphthalene
Concen: 0.413 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:128 Resp: 1242

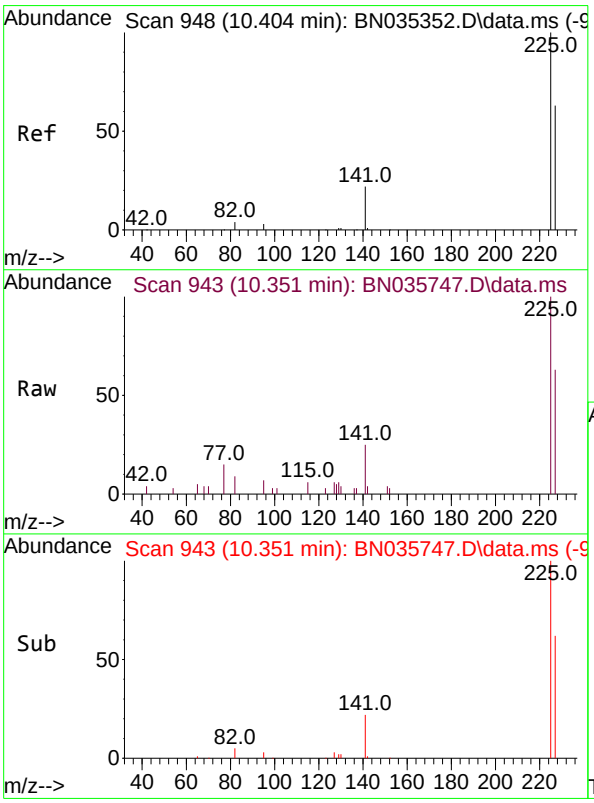
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

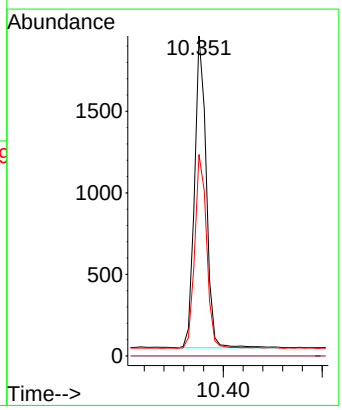
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

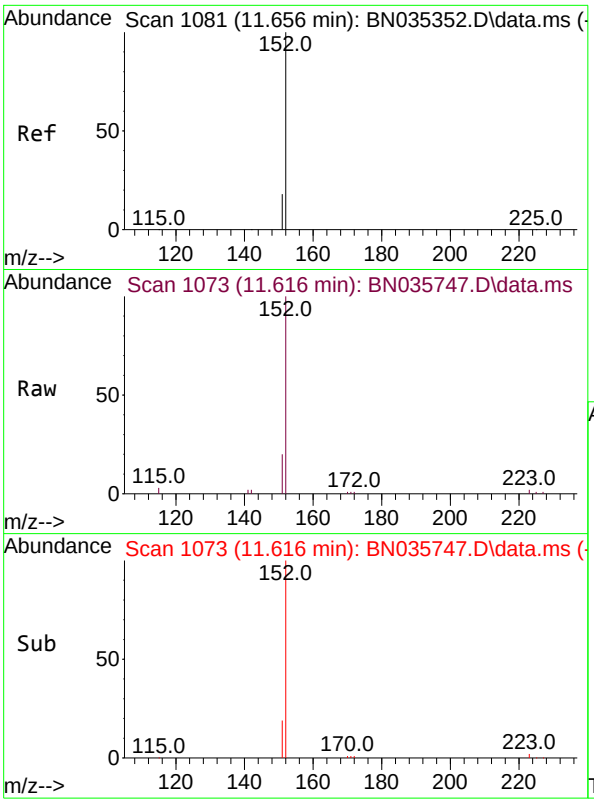


#10
Hexachlorobutadiene
Concen: 0.453 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:225 Resp: 3142

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.3	76.9

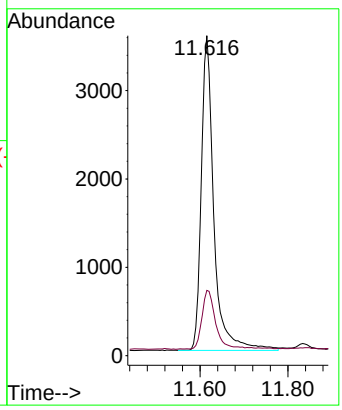




#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 704

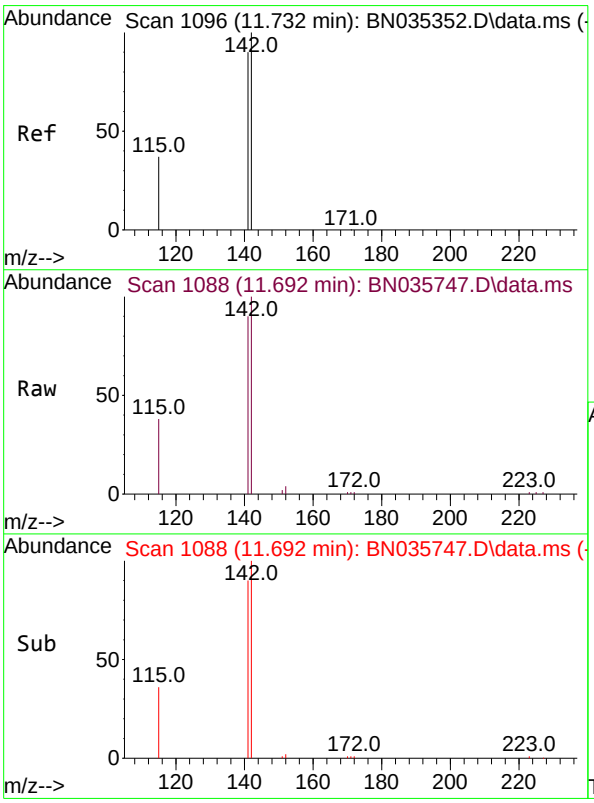
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

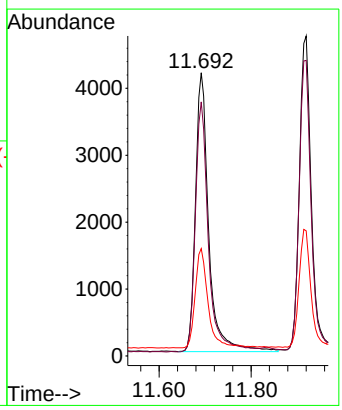
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

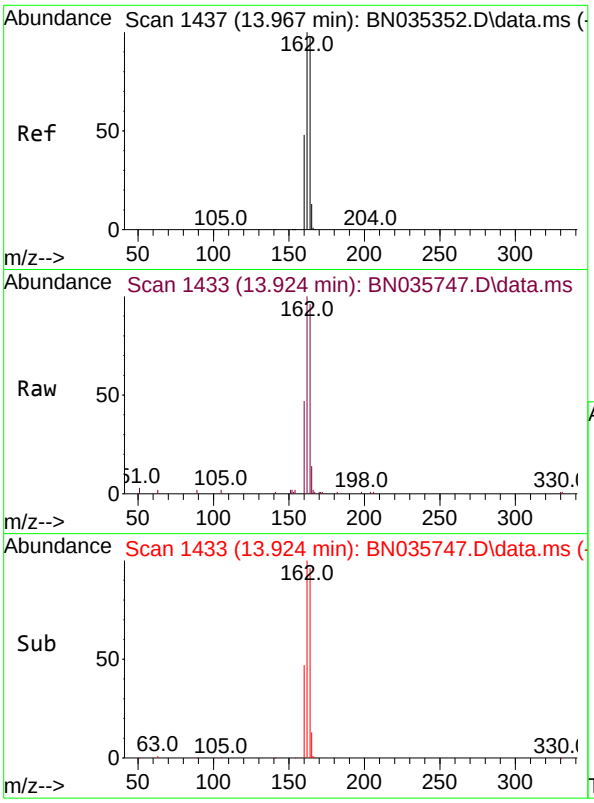


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:142 Resp: 8345

Ion	Ratio	Lower	Upper
142	100		
141	89.7	72.2	108.4
115	37.9	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

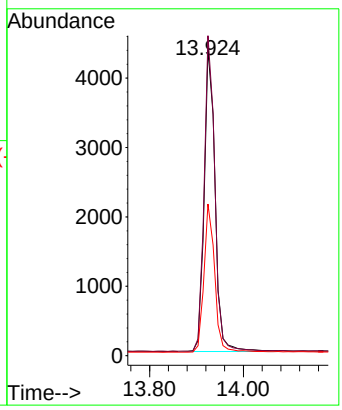
Tgt Ion:164 Resp: 701

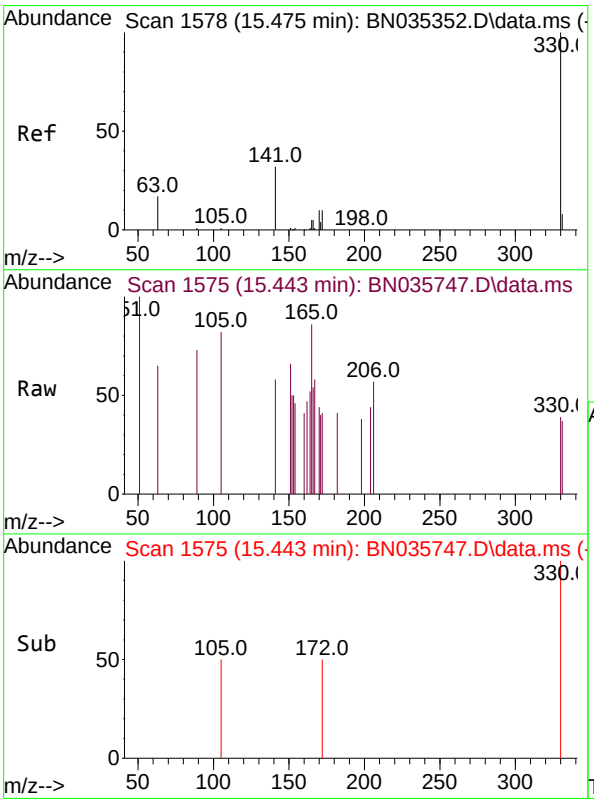
Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.2	123.2
160	49.5	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

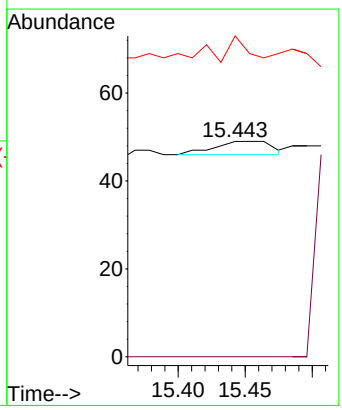


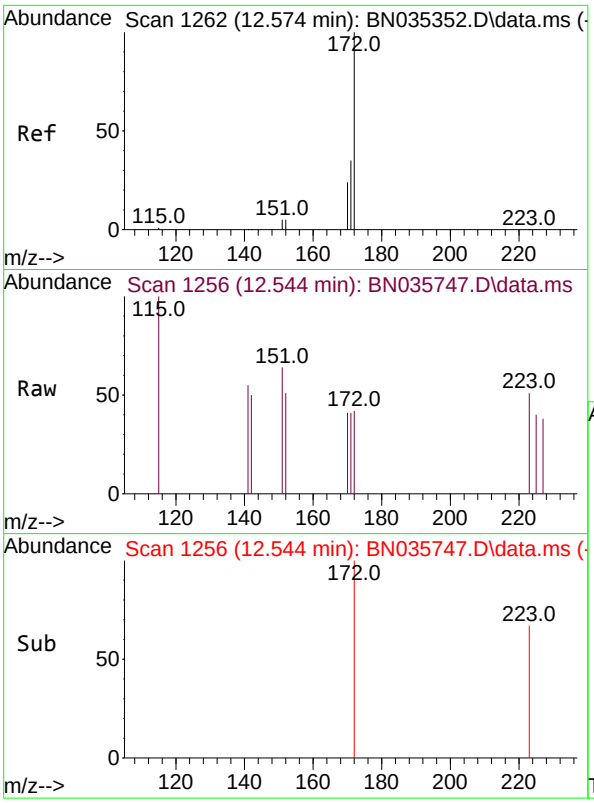


#14
2,4,6-Tribromophenol
Concen: 0.002 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:330 Resp: 9

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	77.8	26.6	40.0#

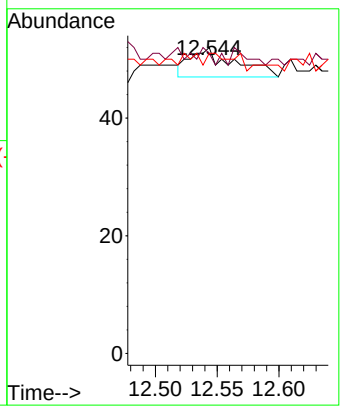




#15
2-Fluorobiphenyl
Concen: 0.000 ng
RT: 12.544 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:172 Resp: 1

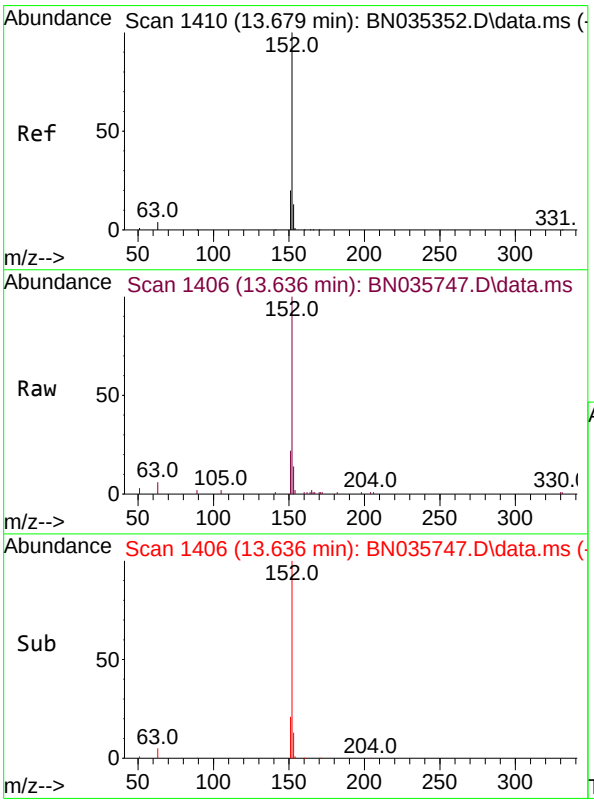
Ion	Ratio	Lower	Upper
172	100		
171	98.1	29.0	43.4#
170	98.1	19.8	29.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

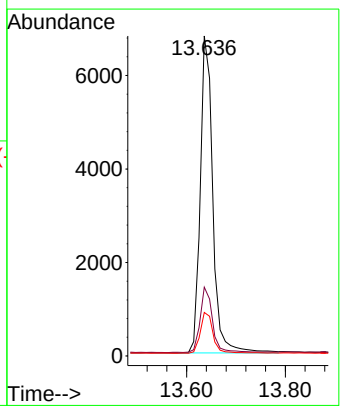
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

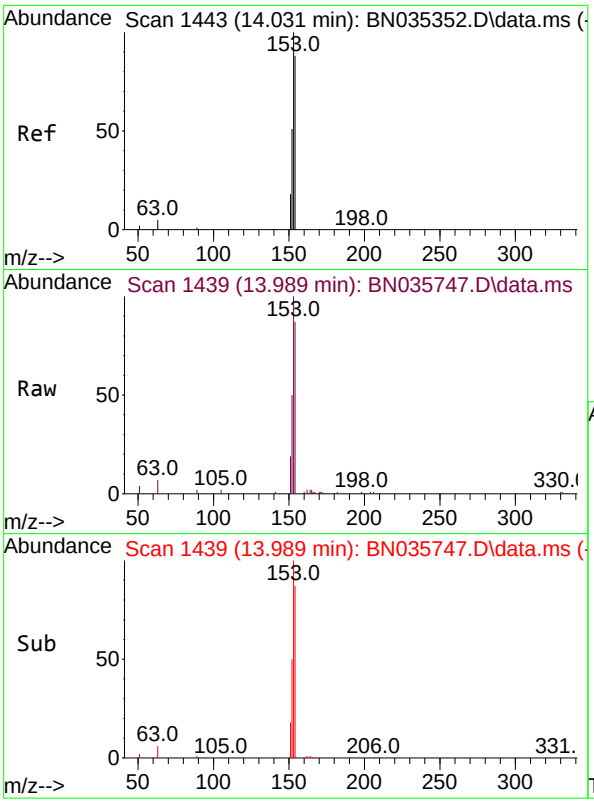


#16
Acenaphthylene
Concen: 0.405 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 11936

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.1	10.4	15.6

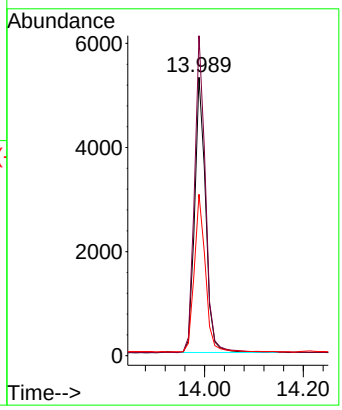




#17
Acenaphthene
Concen: 0.417 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:154 Resp: 816

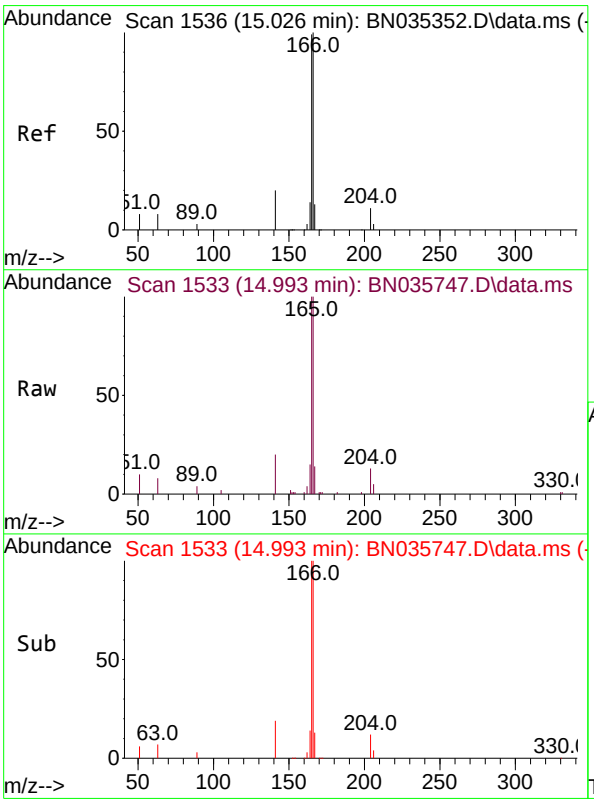
Ion	Ratio	Lower	Upper
154	100		
153	115.3	92.6	139.0
152	57.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

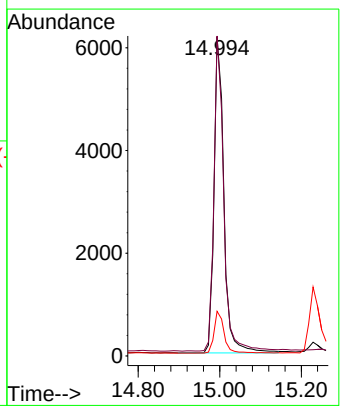
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

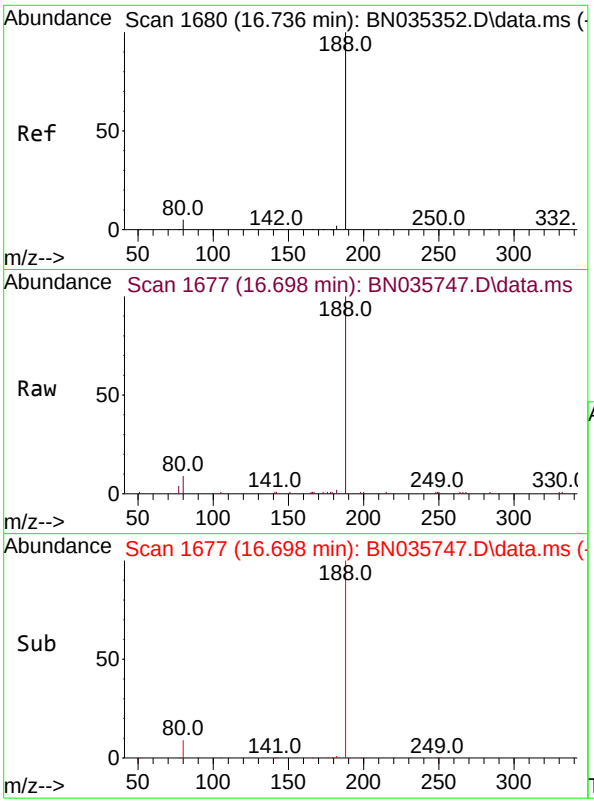


#18
Fluorene
Concen: 0.368 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:166 Resp: 10307

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.4	10.8	16.2

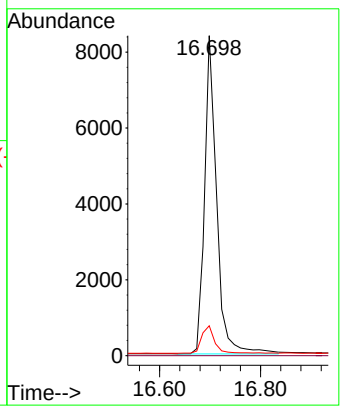




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:188 Resp: 1395

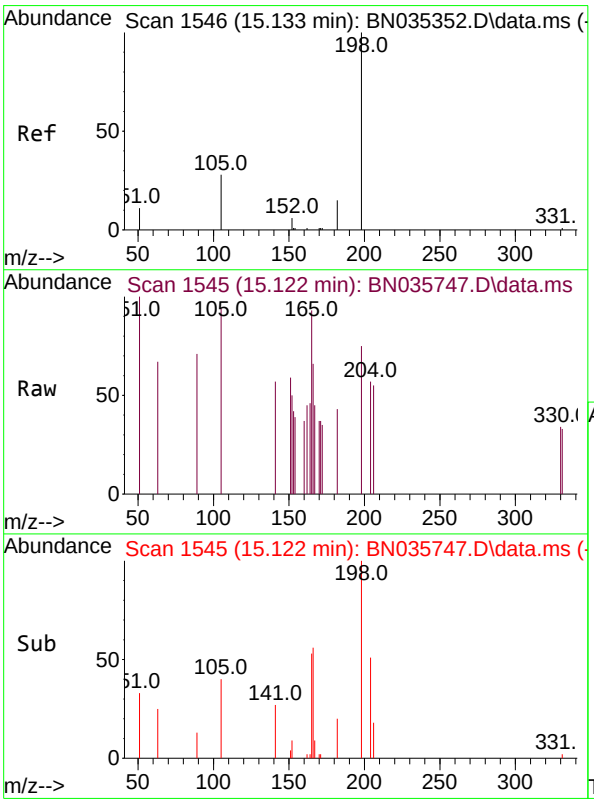
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

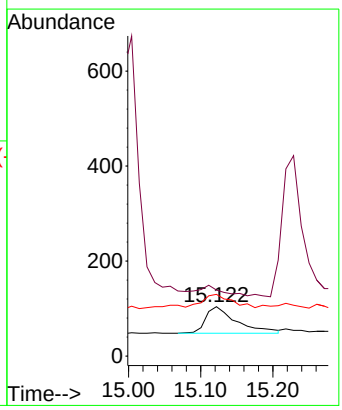
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

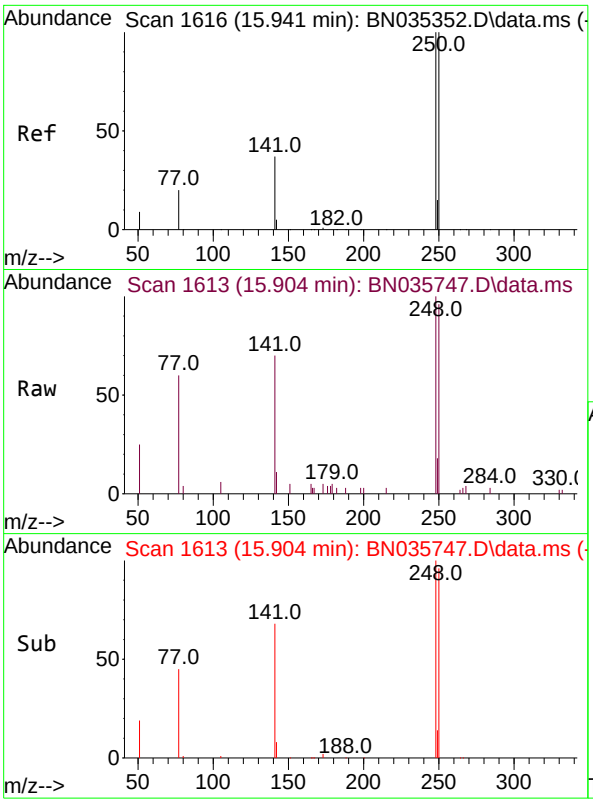


#20
4,6-Dinitro-2-methylphenol
Concen: 0.122 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:198 Resp: 168

Ion	Ratio	Lower	Upper
198	100		
51	133.7	46.5	69.7#
105	125.0	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

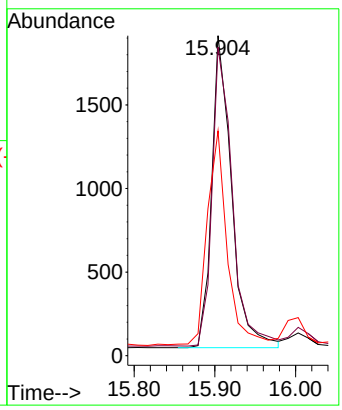
Tgt Ion:248 Resp: 318

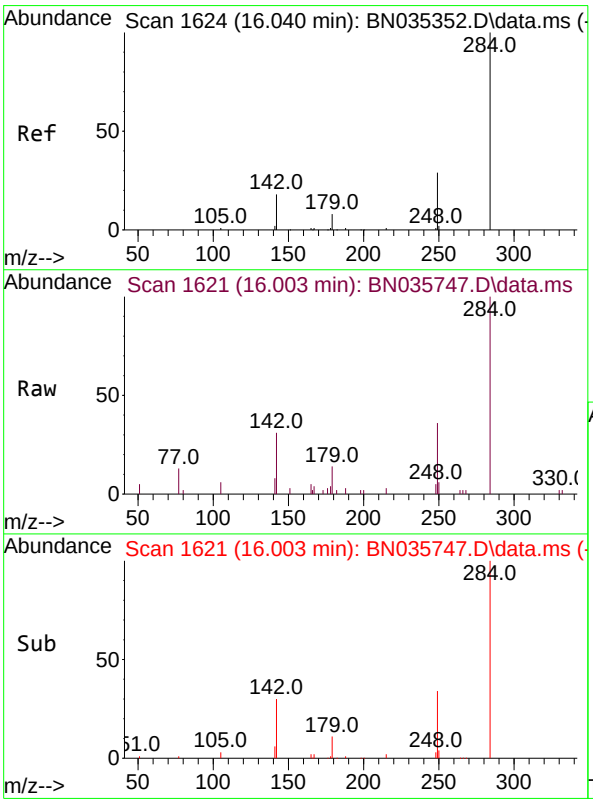
Ion	Ratio	Lower	Upper
248	100		
250	96.4	80.6	120.8
141	70.3	31.5	47.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

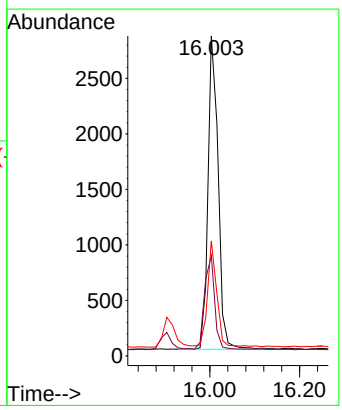


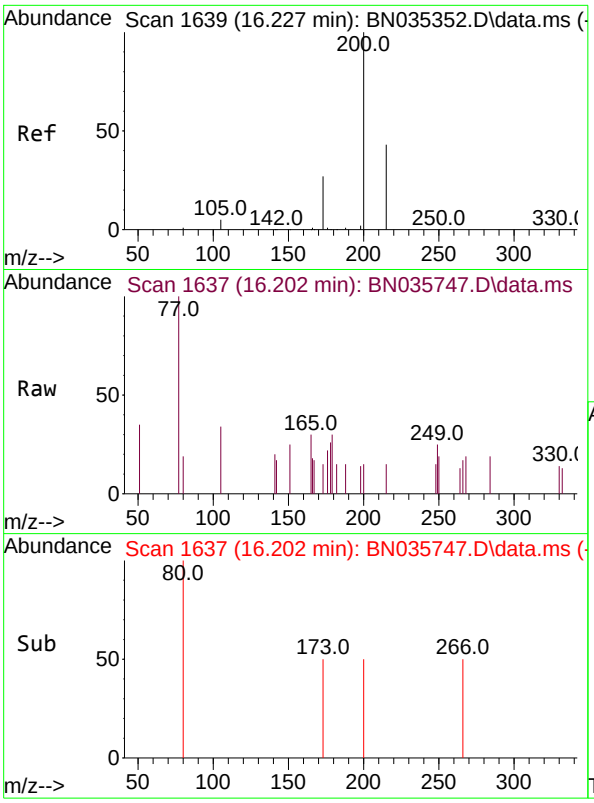


#22
Hexachlorobenzene
Concen: 0.460 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:284 Resp: 4408

Ion	Ratio	Lower	Upper
284	100		
142	29.9	26.7	40.1
249	30.7	24.6	36.8





#23
Atrazine
Concen: 0.005 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

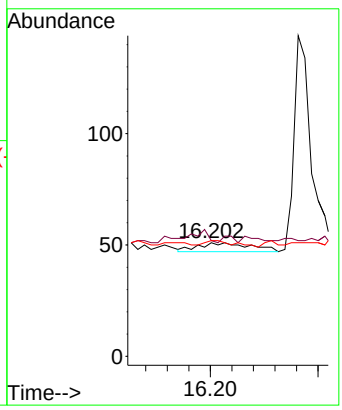
Tgt Ion:200 Resp: 2

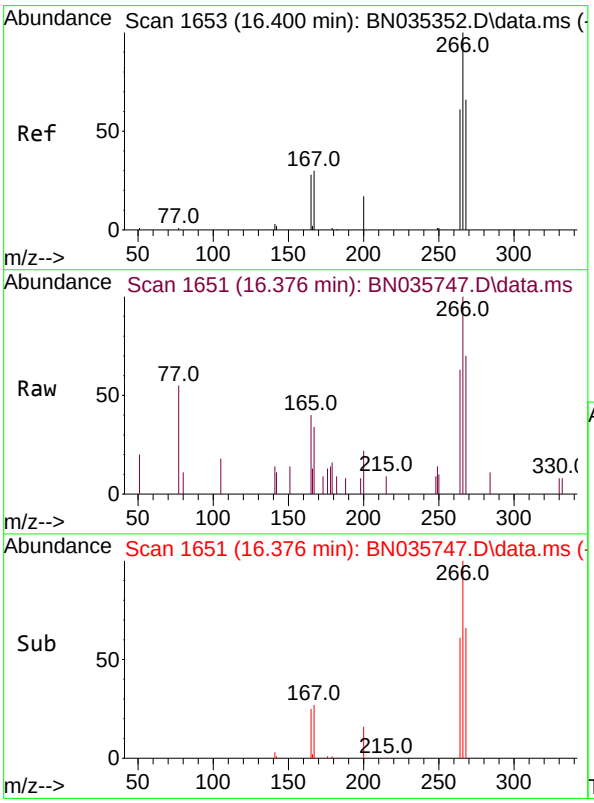
Ion	Ratio	Lower	Upper
200	100		
173	102.0	24.1	36.1#
215	102.0	36.9	55.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

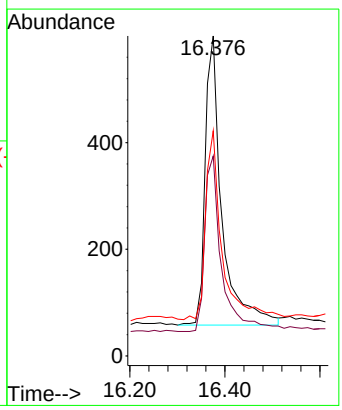


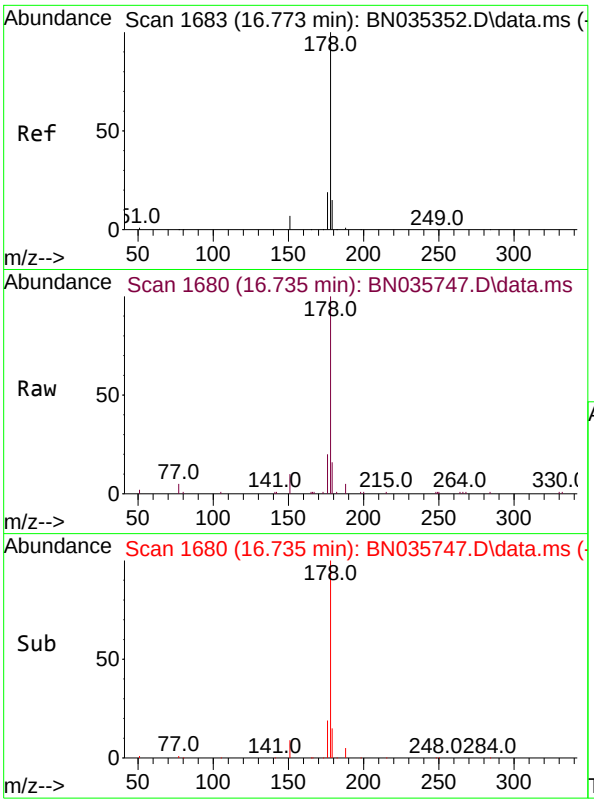


#24
Pentachlorophenol
Concen: 0.319 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:266 Resp: 1329

Ion	Ratio	Lower	Upper
266	100		
264	61.8	42.3	63.5
268	64.7	43.3	64.9

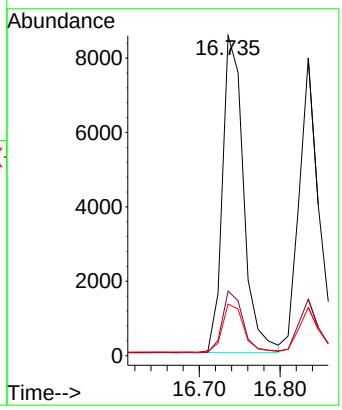




#25
Phenanthrene
Concen: 0.403 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 1545

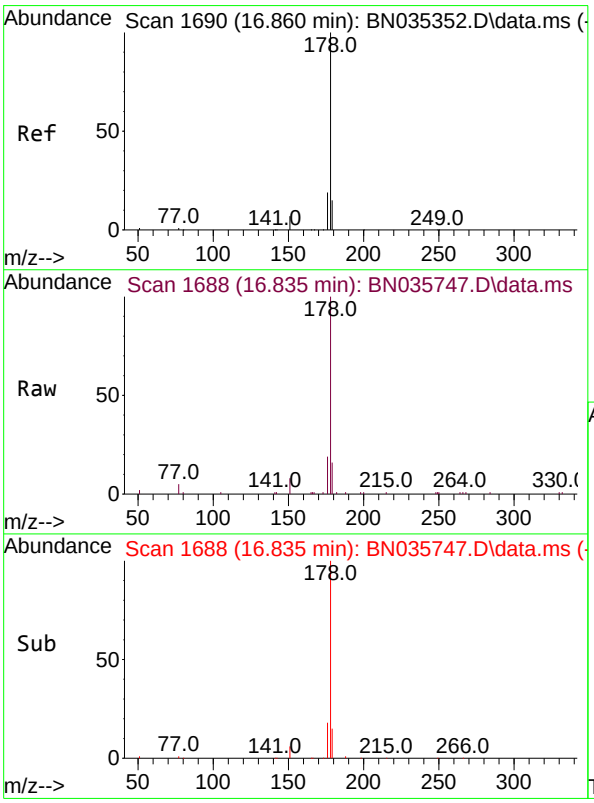
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

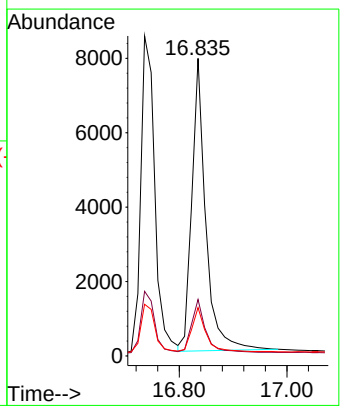
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

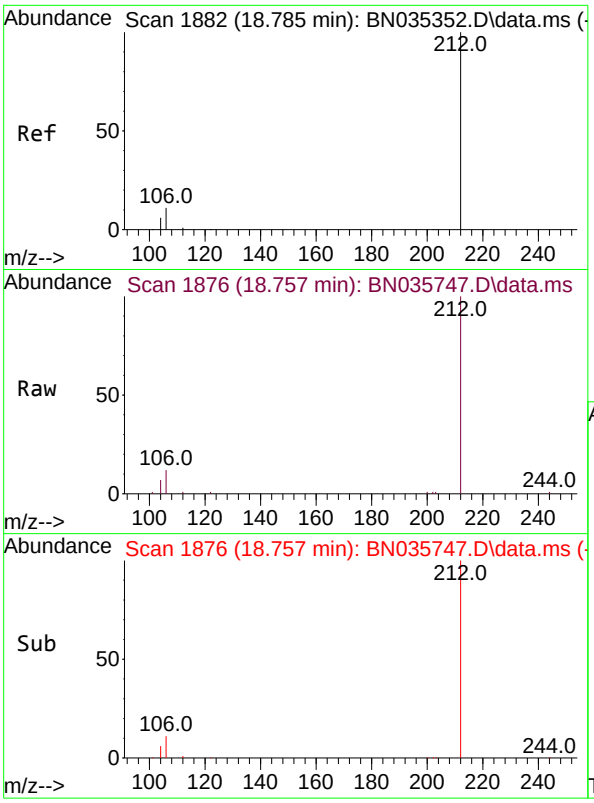


#26
Anthracene
Concen: 0.408 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 14156

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.5	12.6	18.8

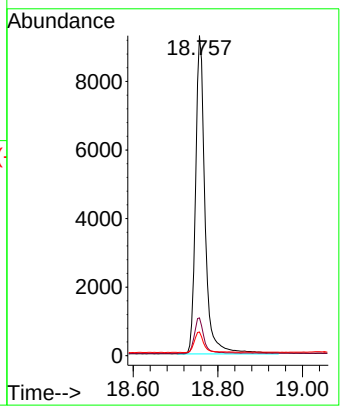




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:212 Resp: 1442

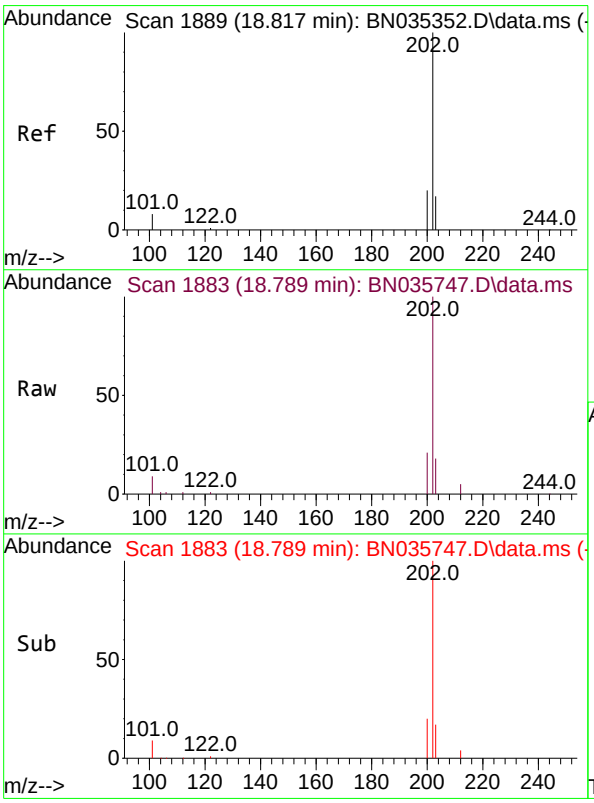
Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.3	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

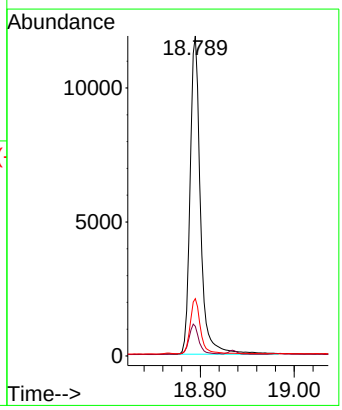
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

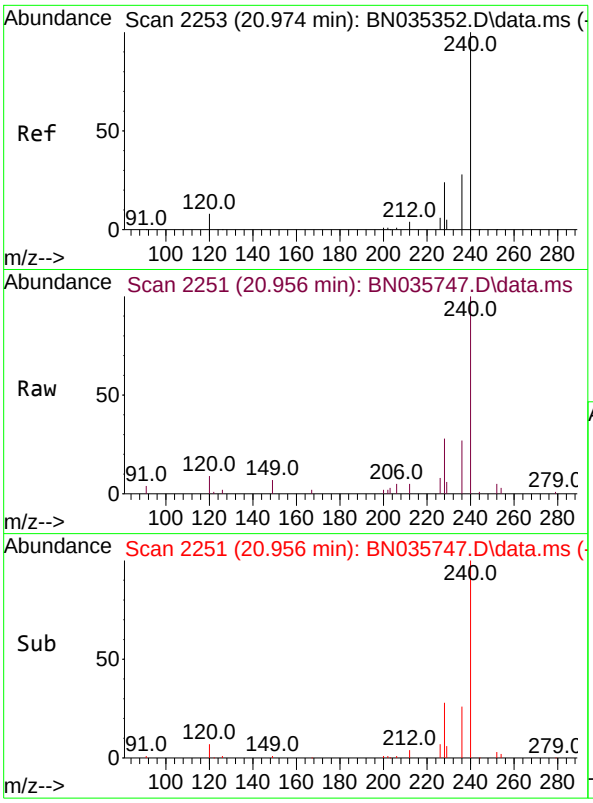


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 18255

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.4	11.0
203	17.0	13.7	20.5

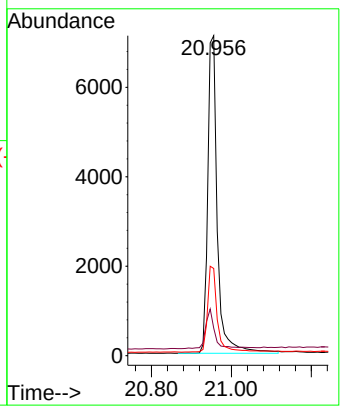




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:240 Resp: 1187

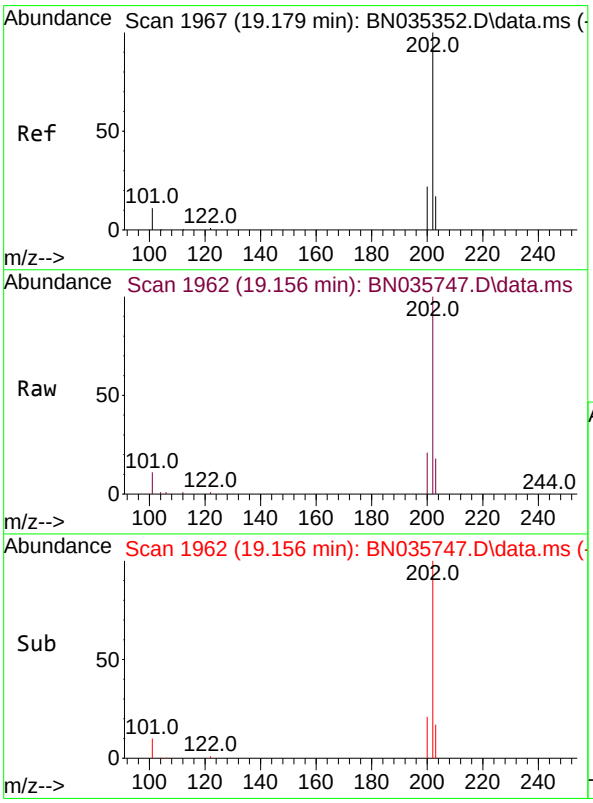
Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.9	11.9
236	27.2	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

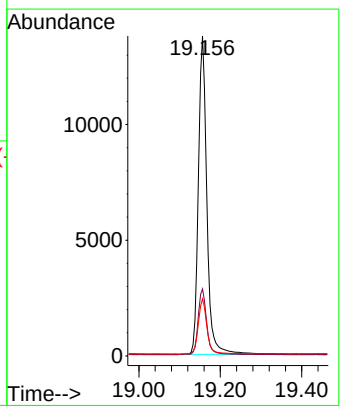
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

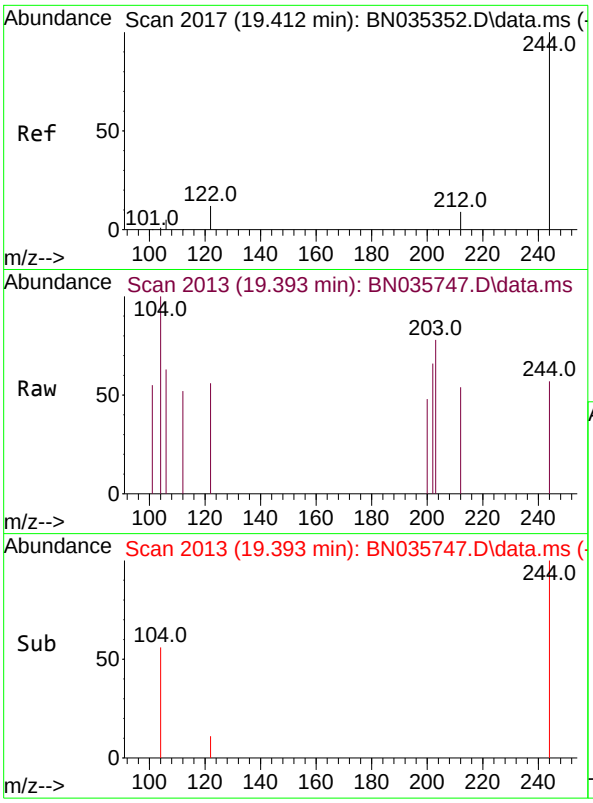


#30
Pyrene
Concen: 0.453 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 19874

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5

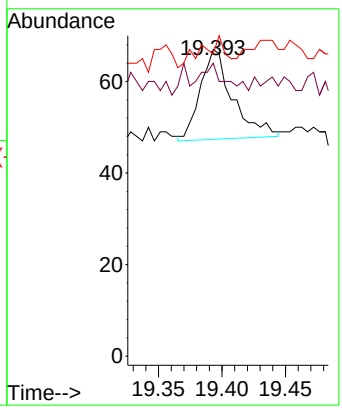




#31
Terphenyl-d14
Concen: 0.001 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:244 Resp: 3

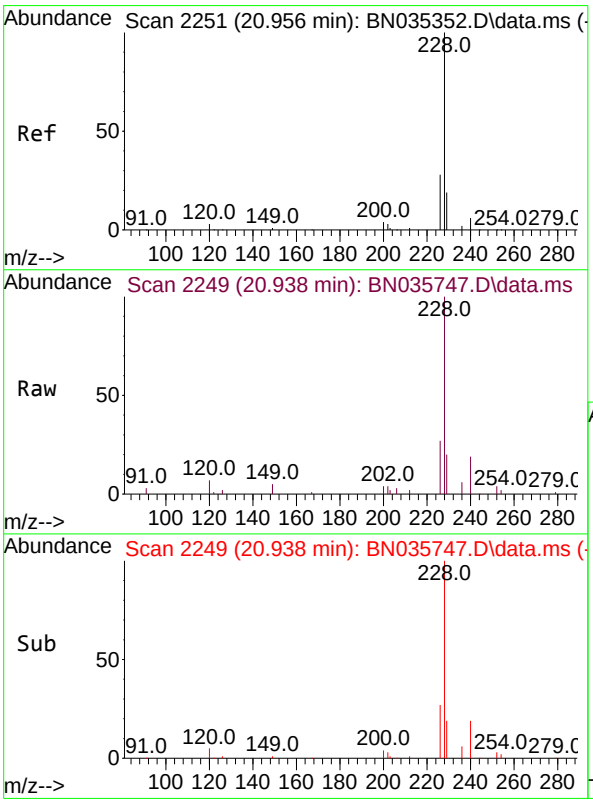
Ion	Ratio	Lower	Upper
244	100		
212	95.5	8.1	12.1#
122	98.5	10.3	15.5#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

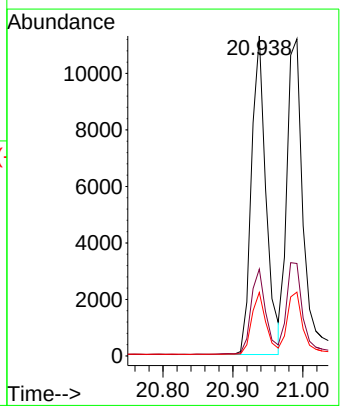
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

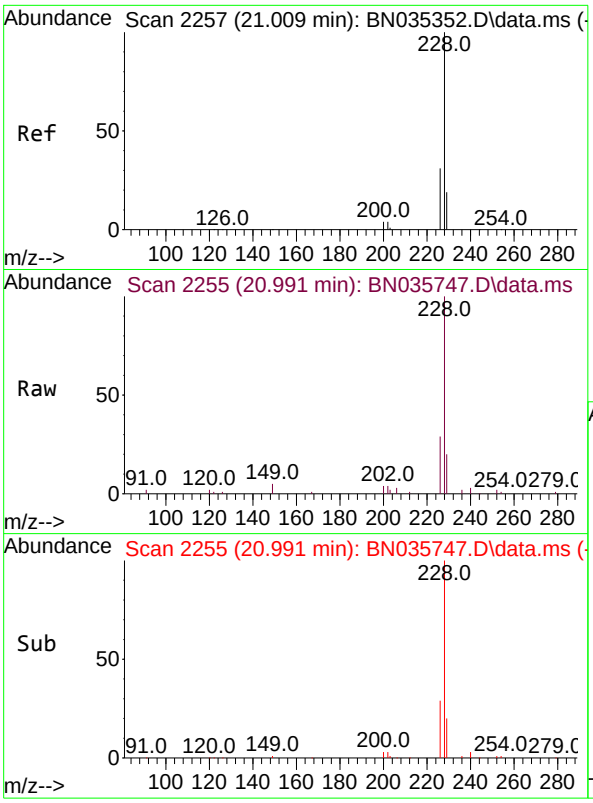


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:228 Resp: 16354

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.5	33.7
229	19.9	15.8	23.8

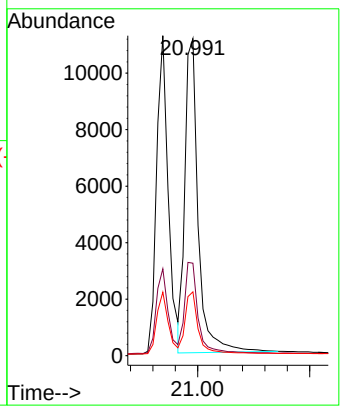




#33
Chrysene
Concen: 0.428 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:228 Resp: 1834

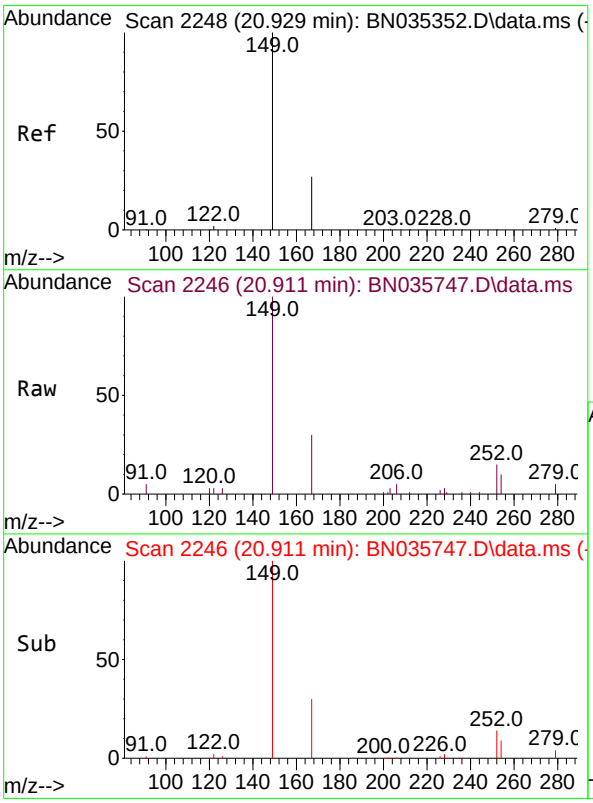
Ion	Ratio	Lower	Upper
228	100		
226	29.2	24.6	37.0
229	20.1	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

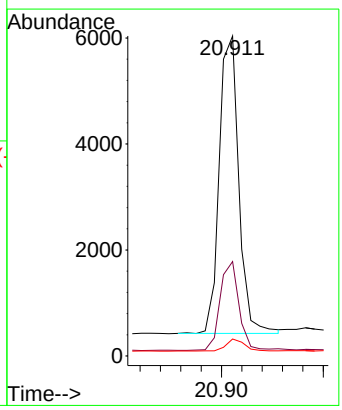
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

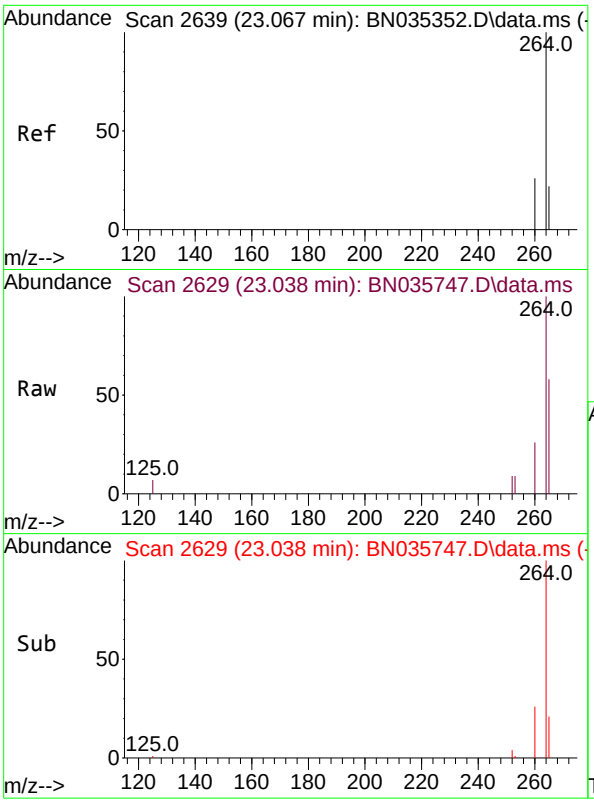


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.456 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:149 Resp: 7490

Ion	Ratio	Lower	Upper
149	100		
167	29.2	22.2	33.4
279	3.7	2.7	4.1

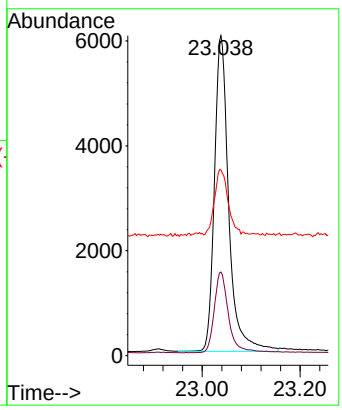




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:264 Resp: 1220

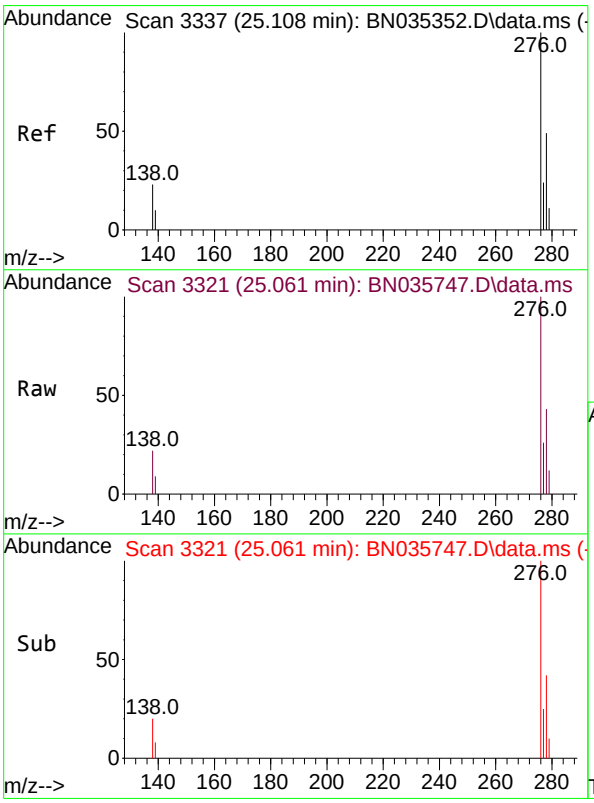
Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	58.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

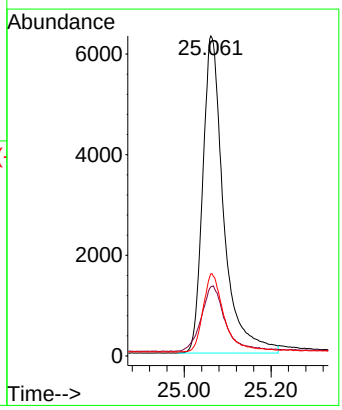
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

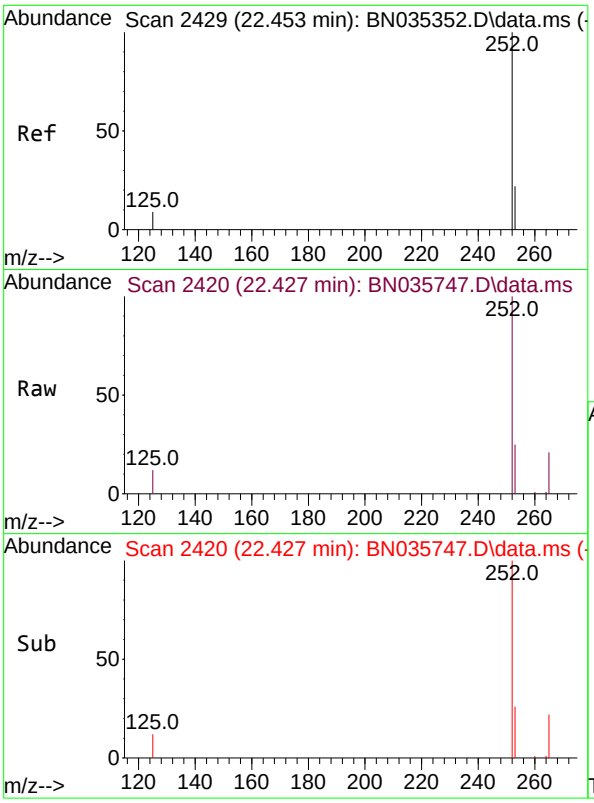


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.442 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:276 Resp: 21102

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.2	19.8	29.6

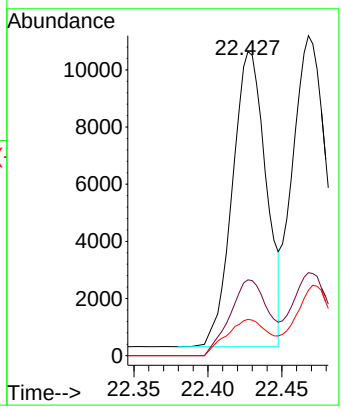




#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 2198

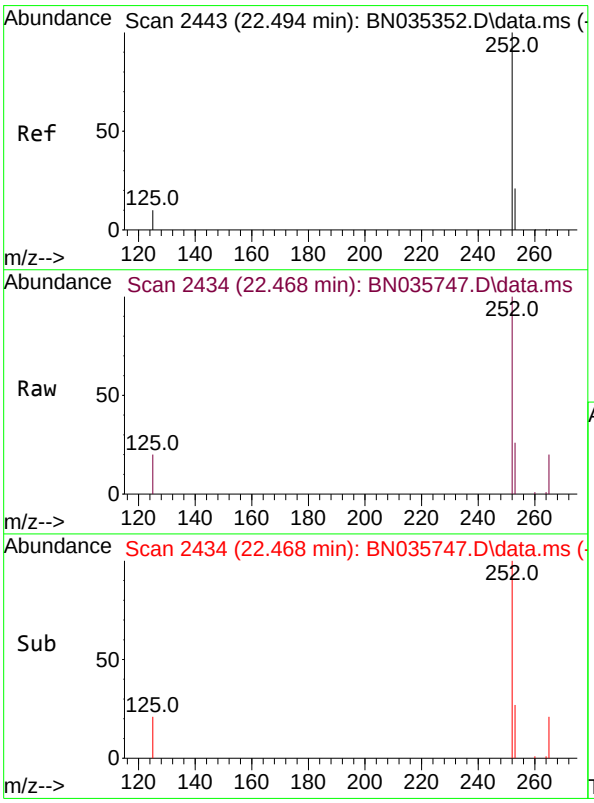
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	12.0	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

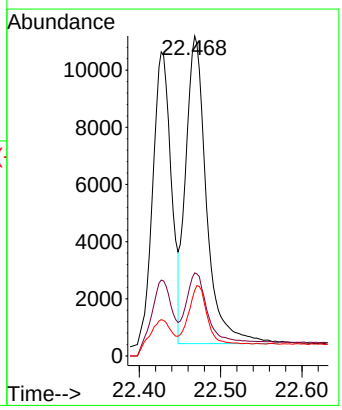
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

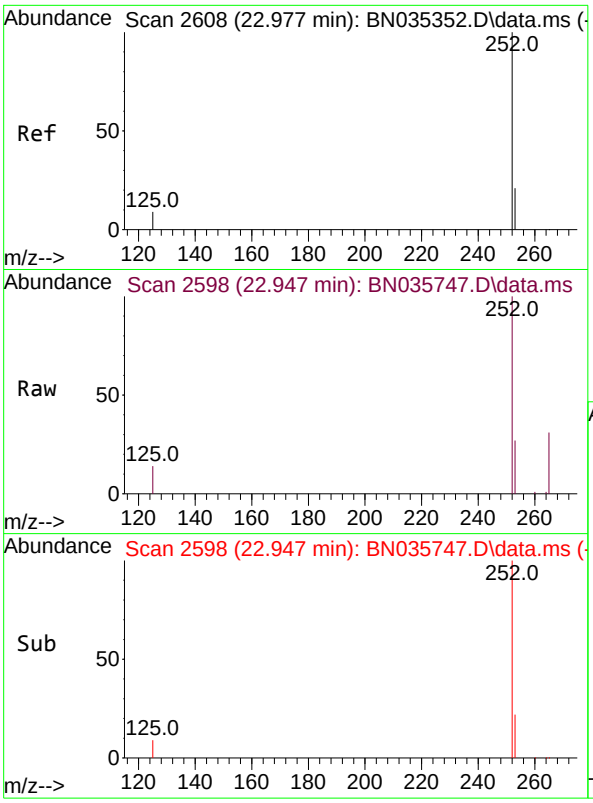


#38
Benzo(k)fluoranthene
Concen: 0.436 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 19139

Ion	Ratio	Lower	Upper
252	100		
253	26.0	19.5	29.3
125	20.5	10.2	15.4#

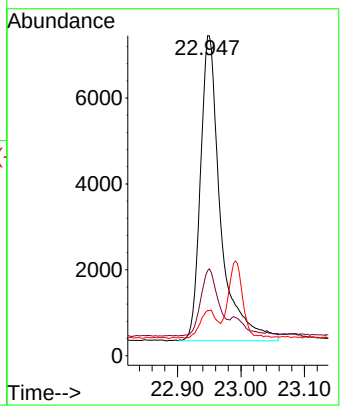




#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 1563

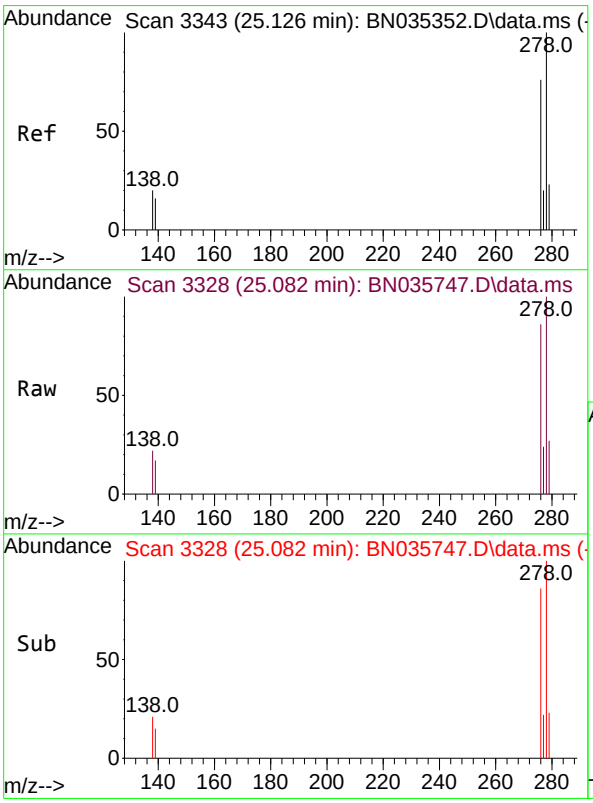
Ion	Ratio	Lower	Upper
252	100		
253	26.6	20.2	30.4
125	14.2	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

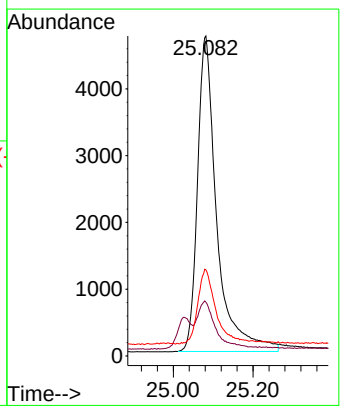
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

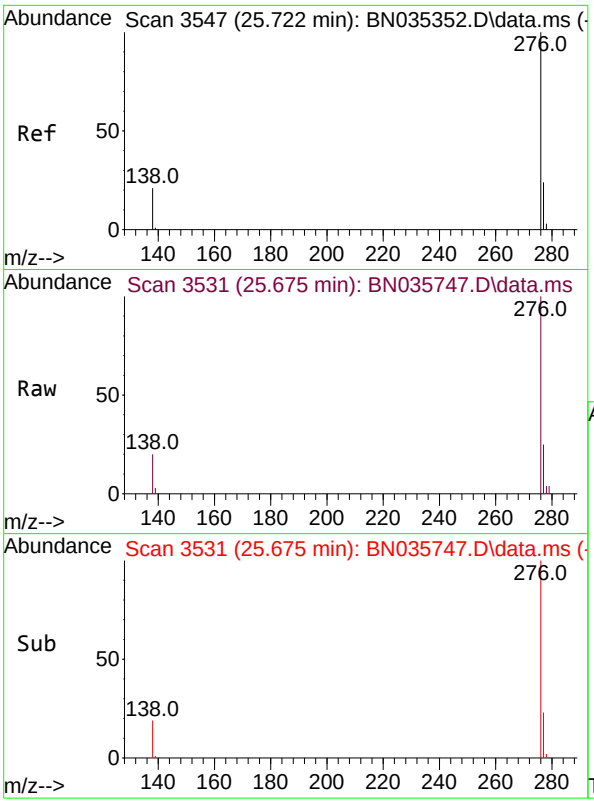


#40
Dibenzo(a,h)anthracene
Concen: 0.421 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:278 Resp: 15847

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	26.9	20.5	30.7

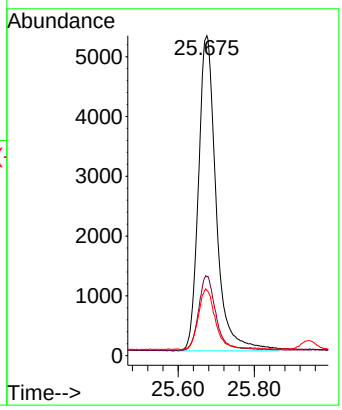




#41
Benzo(g,h,i)perylene
Concen: 0.432 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:276 Resp: 1699

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.9	29.9
138	20.4	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035747.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	202#	0.00
2		1,4-Dioxane	0.382	0.448	-17.3	241#	0.00
3		n-Nitrosodimethylamine	0.319	0.014	95.6#	8#	-0.04
4	S	2-Fluorophenol	1.001	0.002	99.8#	0#	-0.01
5	S	Phenol-d6	1.204	0.025	97.9#	4#	0.00
6		bis(2-Chloroethyl)ether	1.012	1.045	-3.3	213#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	218#	-0.01
8	S	Nitrobenzene-d5	0.244	0.005	98.0#	4#	0.00
9		Naphthalene	1.055	1.090	-3.3	227#	0.00
10		Hexachlorobutadiene	0.243	0.276	-13.6	243#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.618	1.3	218#	0.00
12		2-Methylnaphthalene	0.755	0.732	3.0	216#	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	185#	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.001	99.6#	1#	-0.01
15	S	2-Fluorobiphenyl	1.512	0.002	99.9#	0#	0.00
16		Acenaphthylene	1.680	1.701	-1.3	197#	-0.01
17		Acenaphthene	1.115	1.163	-4.3	198#	-0.01
18		Fluorene	1.596	1.468	8.0	176#	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	147	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.012	69.2#	50#	0.00
21		4-Bromophenyl-phenylether	0.234	0.229	2.1	149	-0.01
22		Hexachlorobenzene	0.275	0.316	-14.9	170#	-0.01
23		Atrazine	0.167	0.002	98.8#	2#	0.00
24		Pentachlorophenol	0.120	0.095	20.8	147	0.00
25		Phenanthrene	1.099	1.108	-0.8	153#	-0.01
26		Anthracene	0.994	1.015	-2.1	159#	0.00
27	SURR	Fluoranthene-d10	1.134	1.034	8.8	141	0.00
28		Fluoranthene	1.481	1.309	11.6	136	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	125	0.00
30		Pyrene	1.477	1.673	-13.3	141	0.00
31	S	Terphenyl-d14	0.789	0.003	99.6#	0#	0.00
32		Benzo(a)anthracene	1.399	1.377	1.6	127	0.00
33		Chrysene	1.443	1.544	-7.0	134	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.631	-14.1	152#	0.00
35	I	Perylene-d12	1.000	1.000	0.0	113	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.730	-10.6	127	0.00
37		Benzo(b)fluoranthene	1.463	1.802	-23.2	154#	0.00
38		Benzo(k)fluoranthene	1.440	1.569	-9.0	126	0.00
39	C	Benzo(a)pyrene	1.205	1.282	-6.4	126	0.00
40		Dibenzo(a,h)anthracene	1.234	1.299	-5.3	122	0.00
41		Benzo(g,h,i)perylene	1.289	1.393	-8.1	126	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN035747.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	202	0.00
2		1,4-Dioxane	0.400	0.469	-17.2	241	0.00
3		n-Nitrosodimethylamine	0.400	0.017	95.8#	8	-0.04
4	S	2-Fluorophenol	0.400	0.001	99.8#	0	-0.01
5	S	Phenol-d6	0.400	0.008	98.0#	4	0.00
6		bis(2-Chloroethyl)ether	0.400	0.413	-3.2	213	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	218	-0.01
8	S	Nitrobenzene-d5	0.400	0.008	98.0#	4	0.00
9		Naphthalene	0.400	0.413	-3.2	227	0.00
10		Hexachlorobutadiene	0.400	0.453	-13.2	243	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.395	1.3	218	0.00
12		2-Methylnaphthalene	0.400	0.388	3.0	216	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	185	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.002	99.5#	1	-0.01
15	S	2-Fluorobiphenyl	0.400	0.000	100.0#	0	0.00
16		Acenaphthylene	0.400	0.405	-1.3	197	-0.01
17		Acenaphthene	0.400	0.417	-4.2	198	-0.01
18		Fluorene	0.400	0.368	8.0	176	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	147	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.122	69.5#	50	0.00
21		4-Bromophenyl-phenylether	0.400	0.391	2.3	149	-0.01
22		Hexachlorobenzene	0.400	0.460	-15.0	170	-0.01
23		Atrazine	0.400	0.005	98.8#	2	0.00
24		Pentachlorophenol	0.400	0.319	20.3	147	0.00
25		Phenanthrene	0.400	0.403	-0.8	153	-0.01
26		Anthracene	0.400	0.408	-2.0	159	0.00
27	SURR	Fluoranthene-d10	0.400	0.365	8.8	141	0.00
28		Fluoranthene	0.400	0.353	11.8	136	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	125	0.00
30		Pyrene	0.400	0.453	-13.2	141	0.00
31	S	Terphenyl-d14	0.400	0.001	99.8#	0	0.00
32		Benzo(a)anthracene	0.400	0.394	1.5	127	0.00
33		Chrysene	0.400	0.428	-7.0	134	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.456	-14.0	152	0.00
35	I	Perylene-d12	0.400	0.400	0.0	113	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.442	-10.5	127	0.00
37		Benzo(b)fluoranthene	0.400	0.493	-23.2	154	0.00
38		Benzo(k)fluoranthene	0.400	0.436	-9.0	126	0.00
39	C	Benzo(a)pyrene	0.400	0.425	-6.2	126	0.00
40		Dibenzo(a,h)anthracene	0.400	0.421	-5.2	122	0.00
41		Benzo(g,h,i)perylene	0.400	0.432	-8.0	126	0.00

(#) = 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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 10:22

Lab File ID: BN035776.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.601		-4.0	20.0
Fluoranthene-d10	1.134	1.037		-8.6	20.0
2-Fluorophenol	1.001	1.009		0.7	20.0
Phenol-d6	1.204	1.111		-7.7	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.601		5.9	20.0
2,4,6-Tribromophenol	0.284	0.205		-27.8	20.0
Terphenyl-d14	0.789	0.943		19.5	20.0
1,4-Dioxane	0.382	0.429		12.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3884	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	10099	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	5893	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8770	0.400	ng		0.00
35) Perylene-d12	23.026	264	8918	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.931	112	3917	0.403	ng		0.00
5) Phenol-d6	6.477	99	4314	0.369	ng		-0.01
8) Nitrobenzene-d5	8.397	82	2872m	0.466	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6074	0.384	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1206	0.288	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	9436	0.424	ng		-0.01
27) Fluoranthene-d10	18.752	212	11979	0.366	ng		0.00
31) Terphenyl-d14	19.384	244	8267	0.478	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1665	0.448	ng		99
3) n-Nitrosodimethylamine	3.278	42	1278	0.413	ng	#	88
6) bis(2-Chloroethyl)ether	6.715	93	3946	0.402	ng		98
9) Naphthalene	10.052	128	10927	0.410	ng		99
10) Hexachlorobutadiene	10.351	225	2685	0.437	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6976	0.366	ng		98
16) Acenaphthylene	13.636	152	9517	0.385	ng		99
17) Acenaphthene	13.989	154	6826	0.415	ng		97
18) Fluorene	14.993	166	8480	0.361	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	178	0.157	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2687	0.398	ng	#	94
22) Hexachlorobenzene	16.003	284	3943	0.497	ng		95
23) Atrazine	16.202	200	1724	0.359	ng		95
24) Pentachlorophenol	16.363	266	1350	0.391	ng		89
25) Phenanthrene	16.735	178	12569	0.396	ng		100
26) Anthracene	16.835	178	10686	0.372	ng		99
28) Fluoranthene	18.780	202	15101	0.353	ng		99
30) Pyrene	19.147	202	15291	0.472	ng		99
32) Benzo(a)anthracene	20.929	228	10904	0.355	ng		99
33) Chrysene	20.982	228	14126	0.447	ng		100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4992	0.412	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	12530	0.359	ng		98
37) Benzo(b)fluoranthene	22.418	252	21074	0.646	ng		96
38) Benzo(k)fluoranthene	22.459	252	14978m	0.466	ng		
39) Benzo(a)pyrene	22.942	252	10518	0.391	ng	#	91
40) Dibenzo(a,h)anthracene	25.070	278	9258	0.337	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11833	0.412	ng		99

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

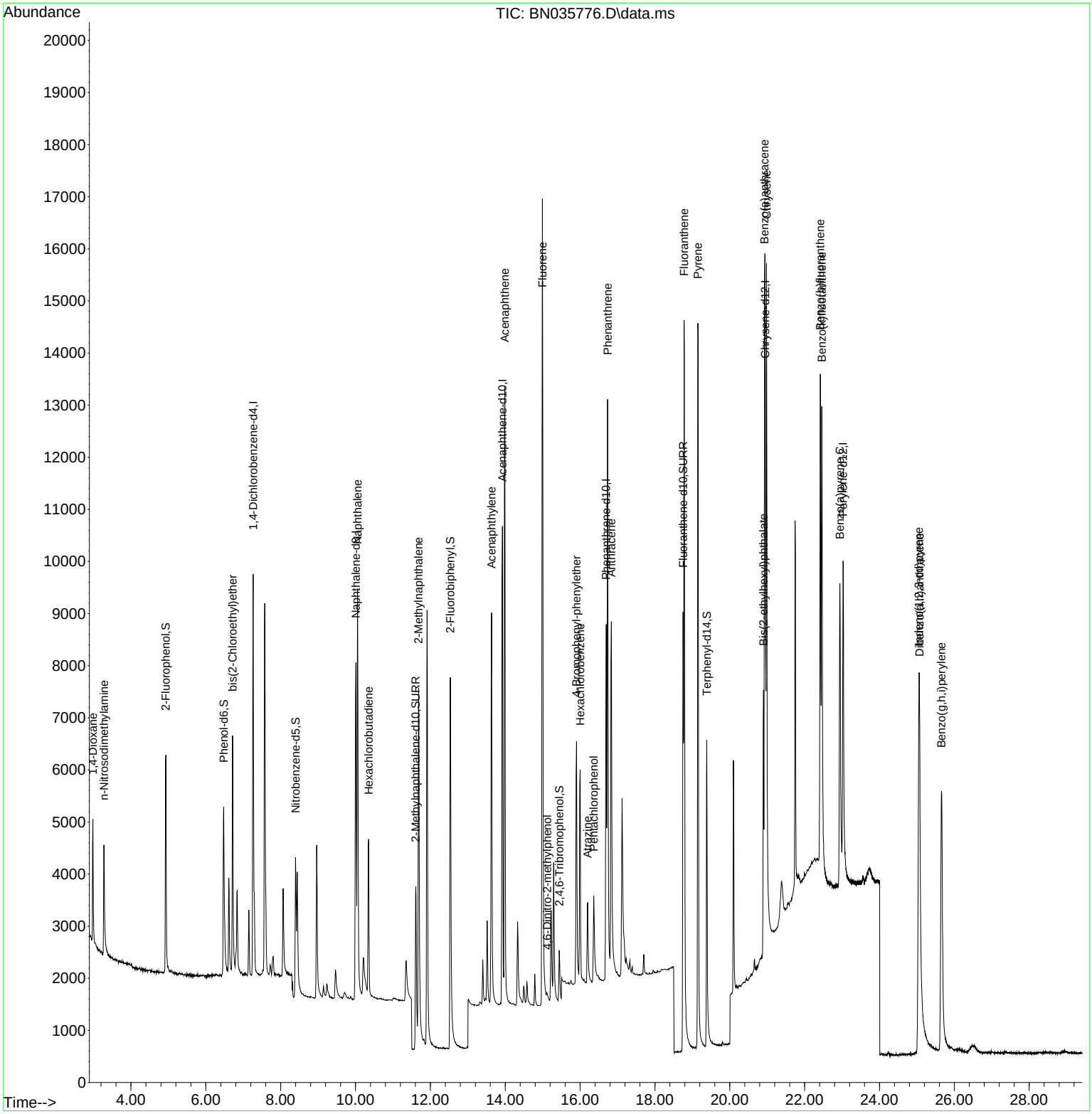
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

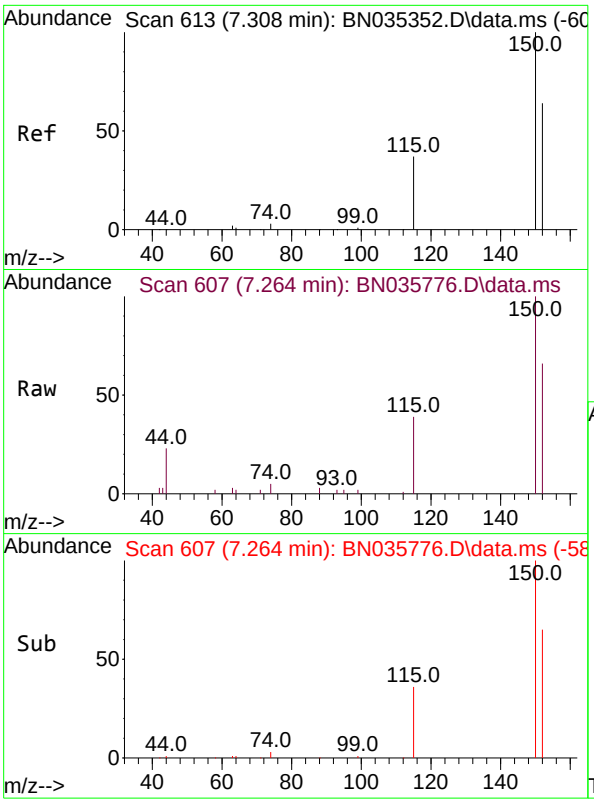
Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

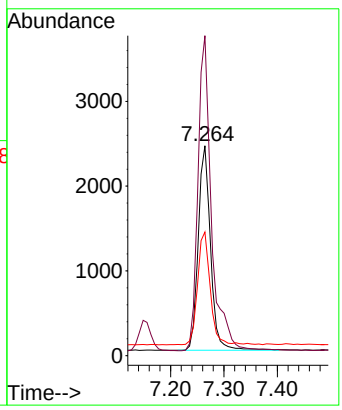




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 388

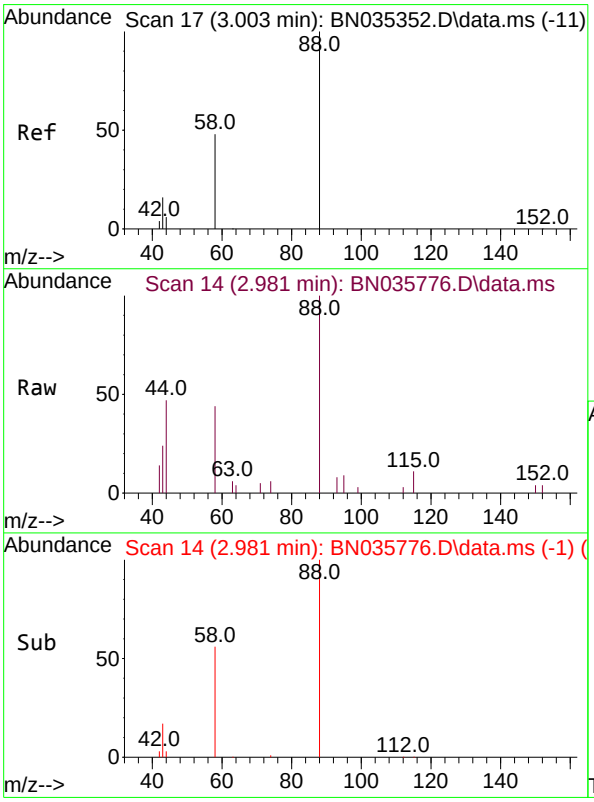
Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

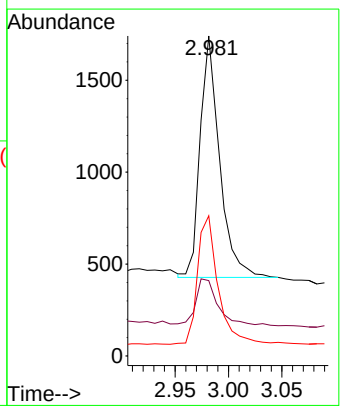
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

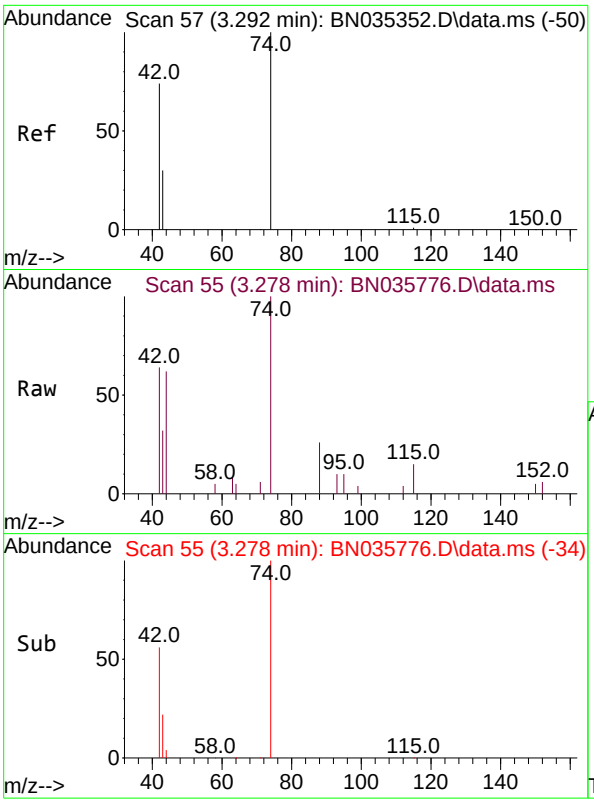


#2
1,4-Dioxane
Concen: 0.448 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 88 Resp: 1665

Ion	Ratio	Lower	Upper
88	100		
43	22.6	17.2	25.8
58	55.9	44.5	66.7

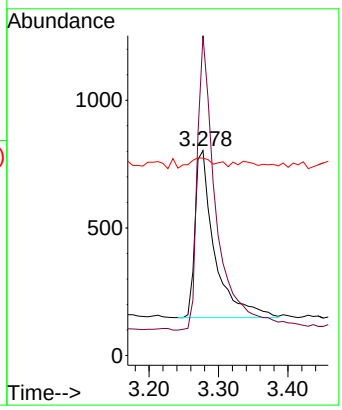




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 42 Resp: 127

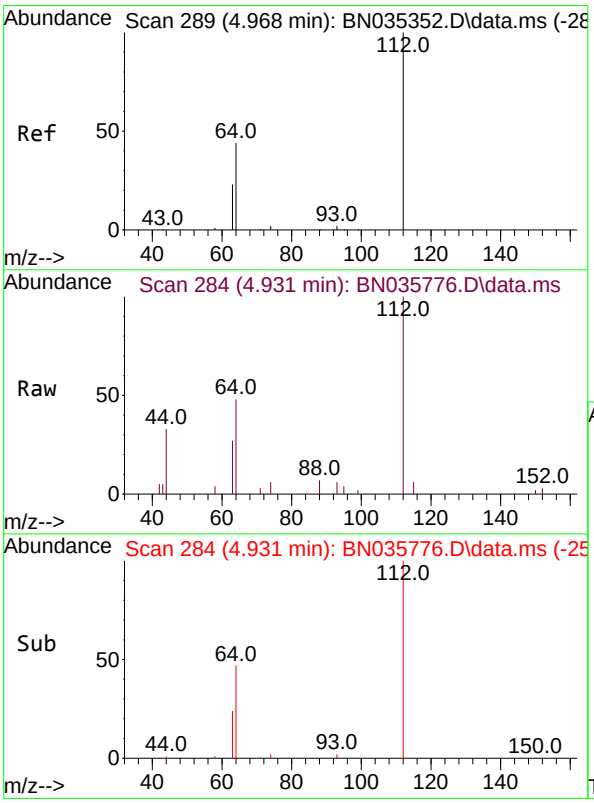
Ion	Ratio	Lower	Upper
42	100		
74	172.3	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

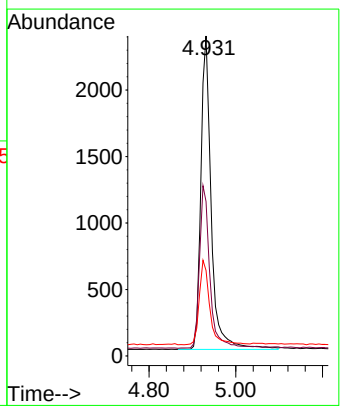
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

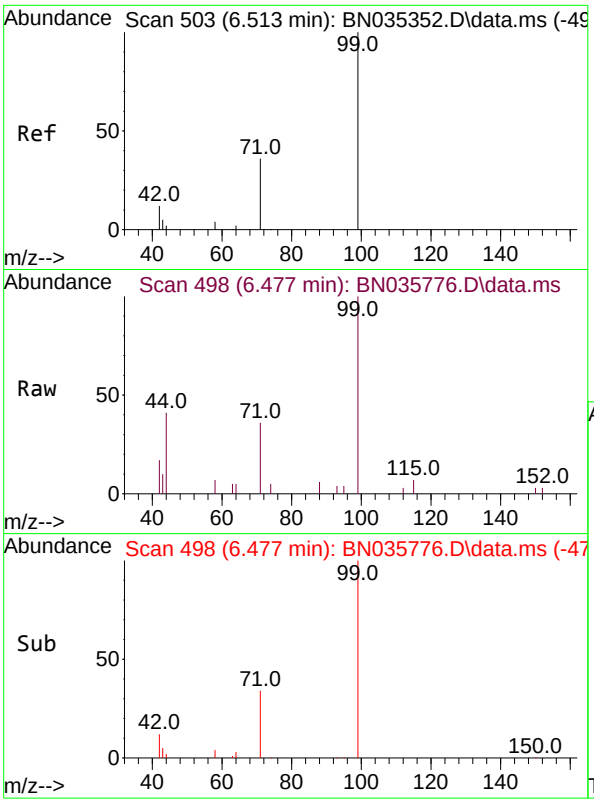


#4
2-Fluorophenol
Concen: 0.403 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:112 Resp: 3917

Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.8	59.8
63	27.2	21.0	31.6





#5
Phenol-d6
Concen: 0.369 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

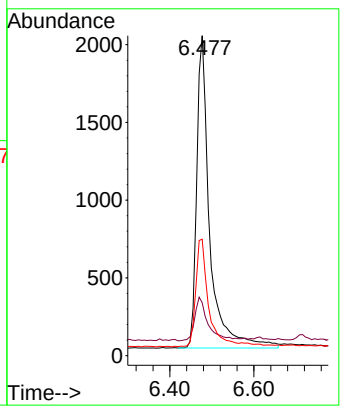
Tgt Ion: 99 Resp: 431

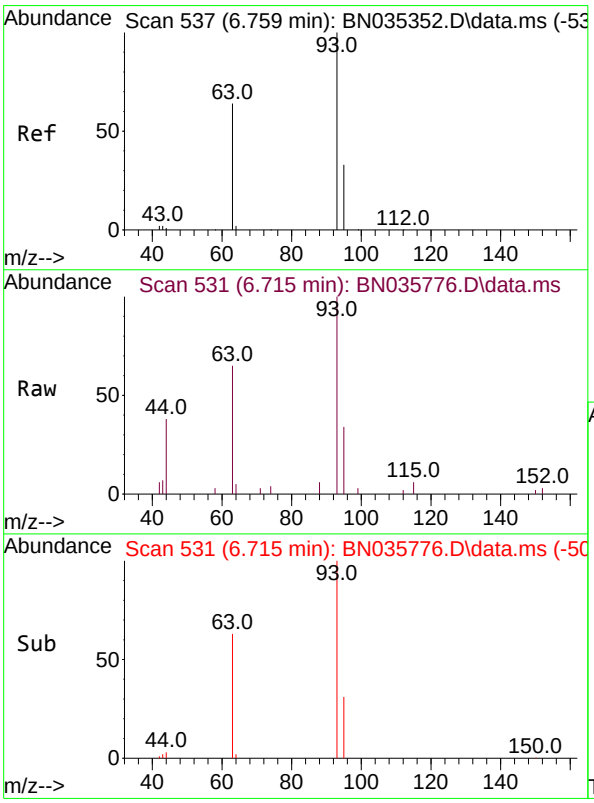
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	33.7	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

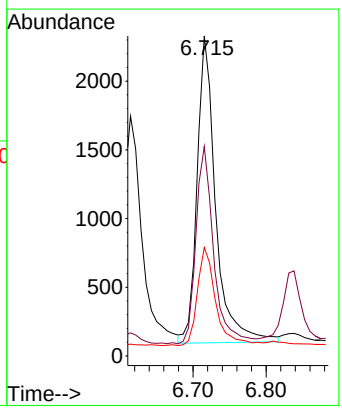


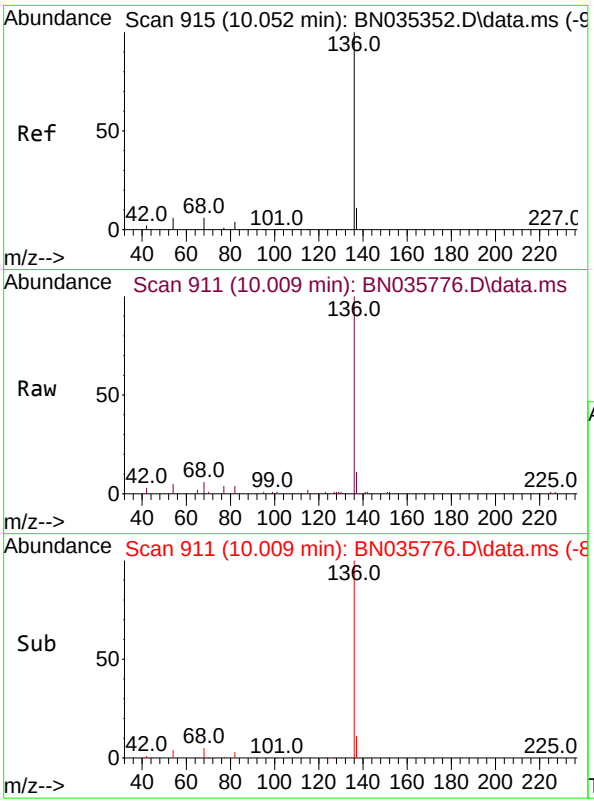


#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 93 Resp: 3946

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	31.7	25.7	38.5

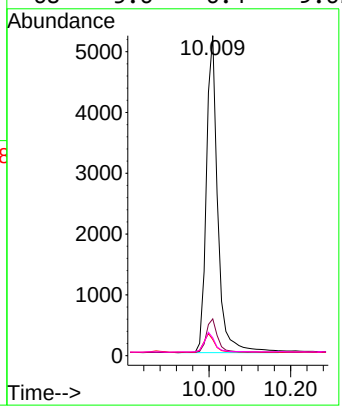




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:136 Resp: 1009

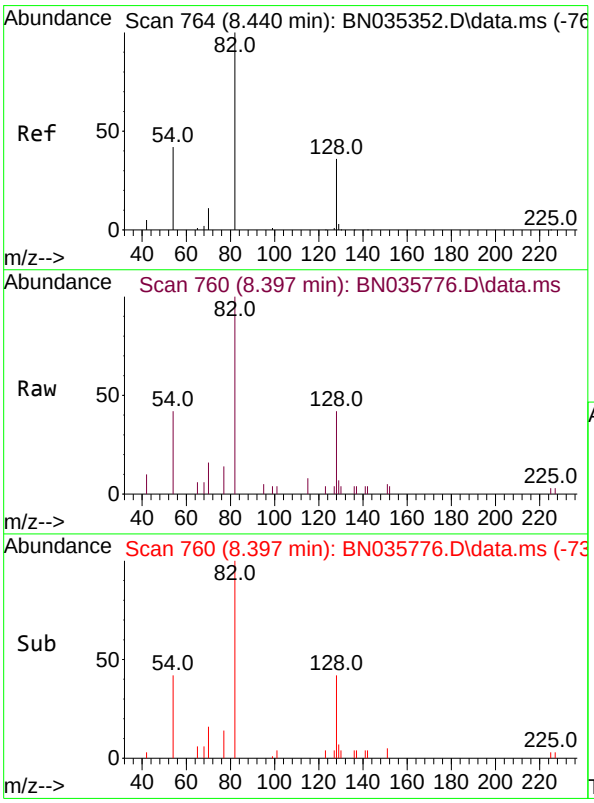
Ion	Ratio	Lower	Upper
136	100		
137	11.5	10.2	15.2
54	5.0	6.1	9.1#
68	5.6	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

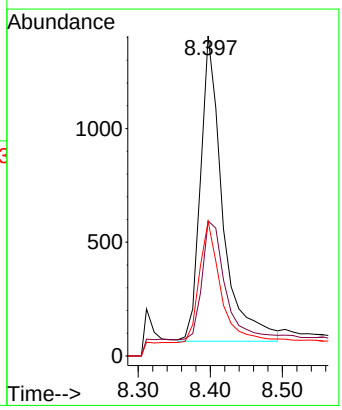
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

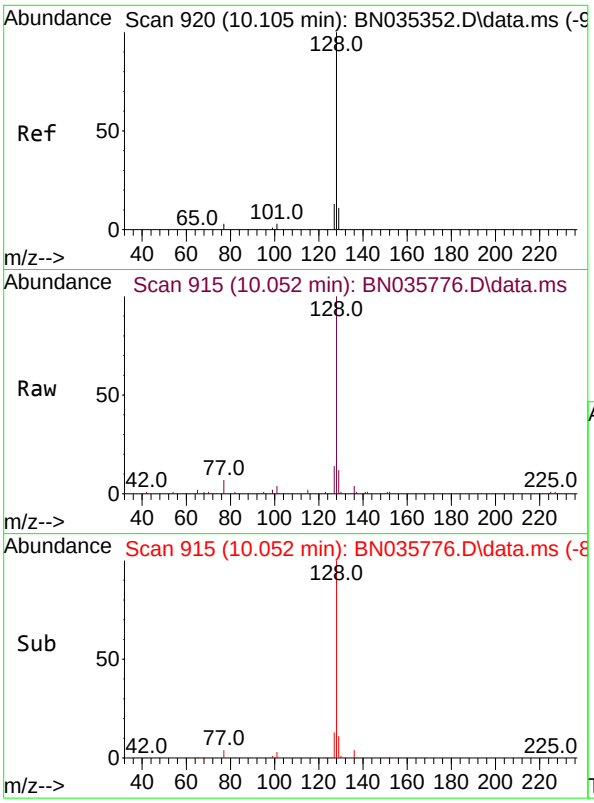


#8
Nitrobenzene-d5
Concen: 0.466 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 82 Resp: 2872

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.4	50.0
54	42.1	36.7	55.1





#9
Naphthalene
Concen: 0.410 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

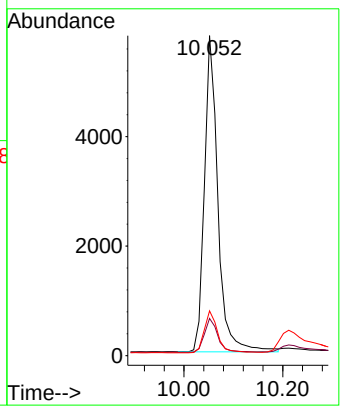
Tgt Ion:128 Resp: 1092

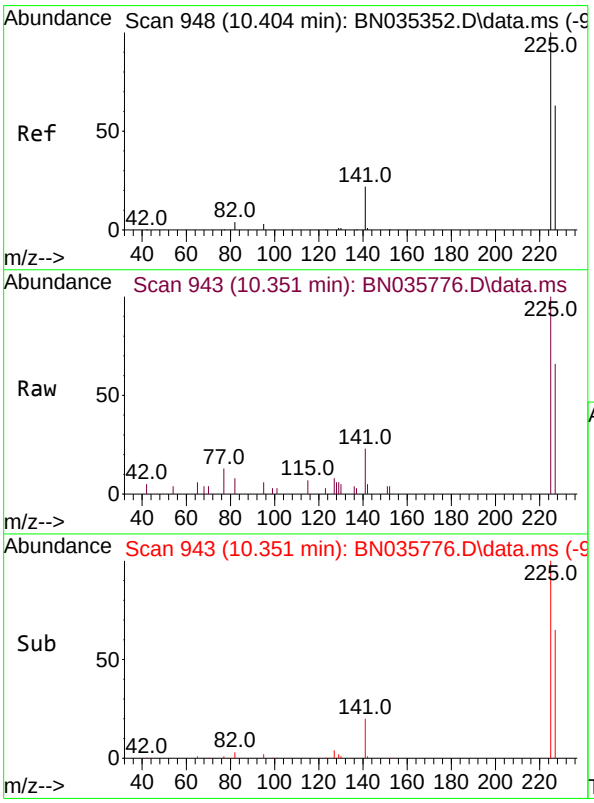
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

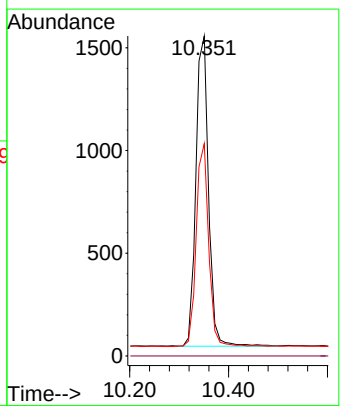


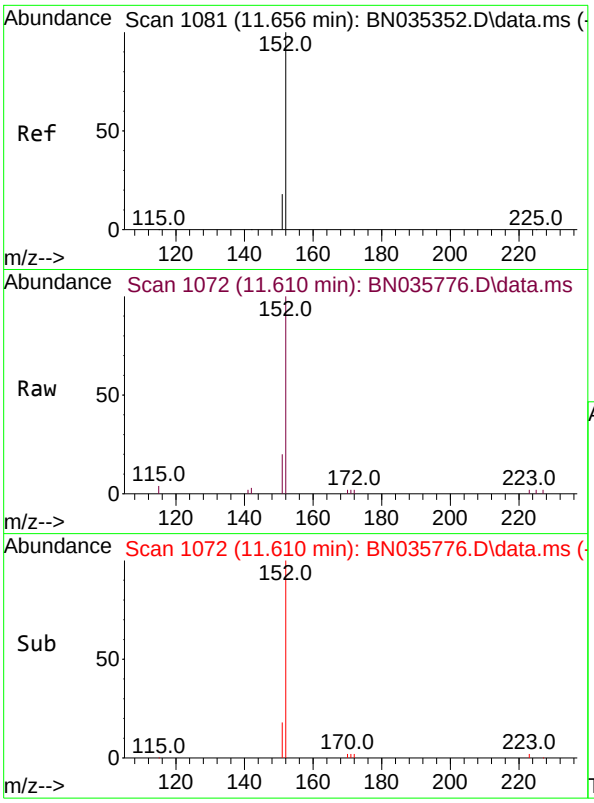


#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:225 Resp: 2685

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9

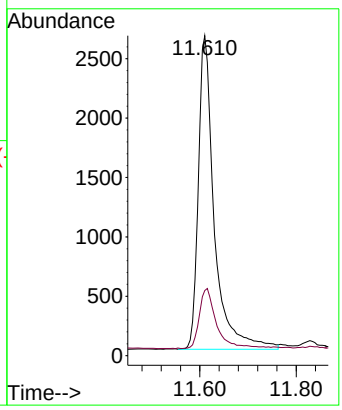




#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 607

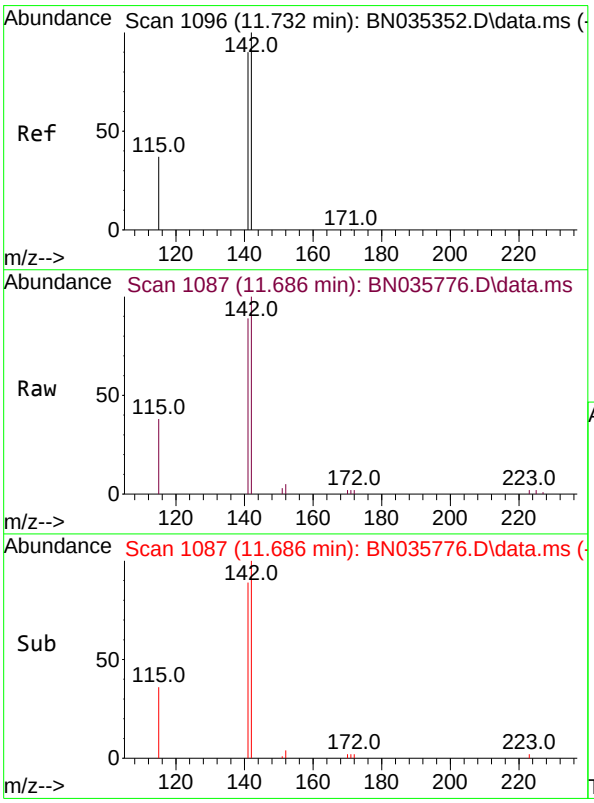
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

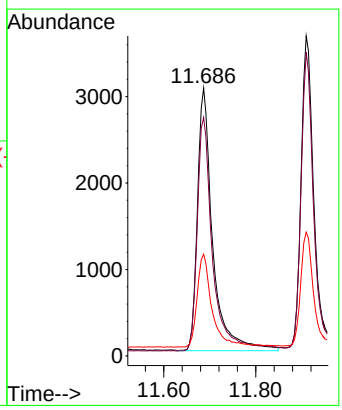
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

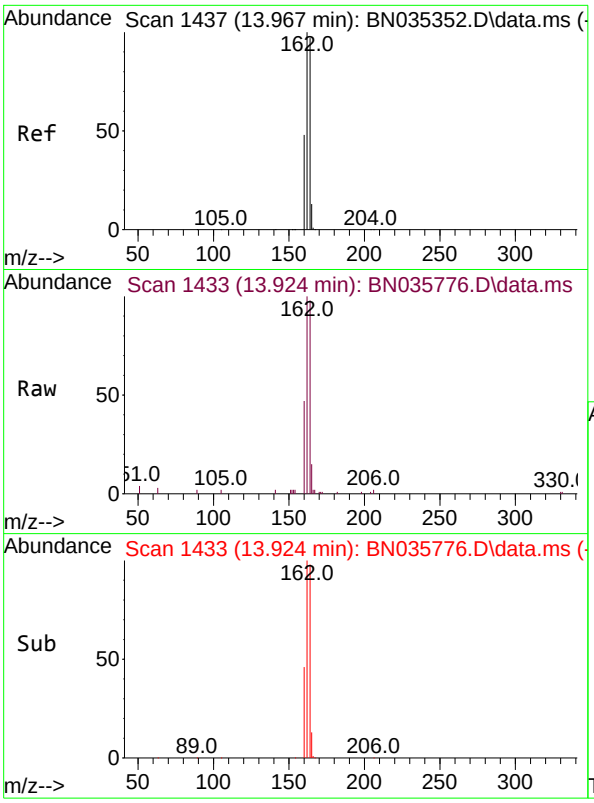


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:142 Resp: 6976

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	38.0	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

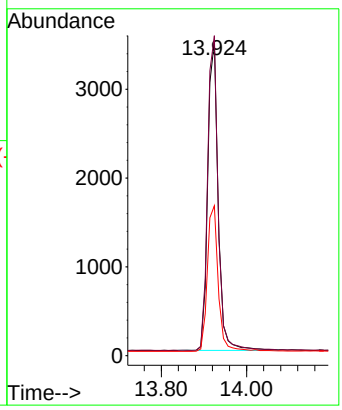
Tgt Ion:164 Resp: 589

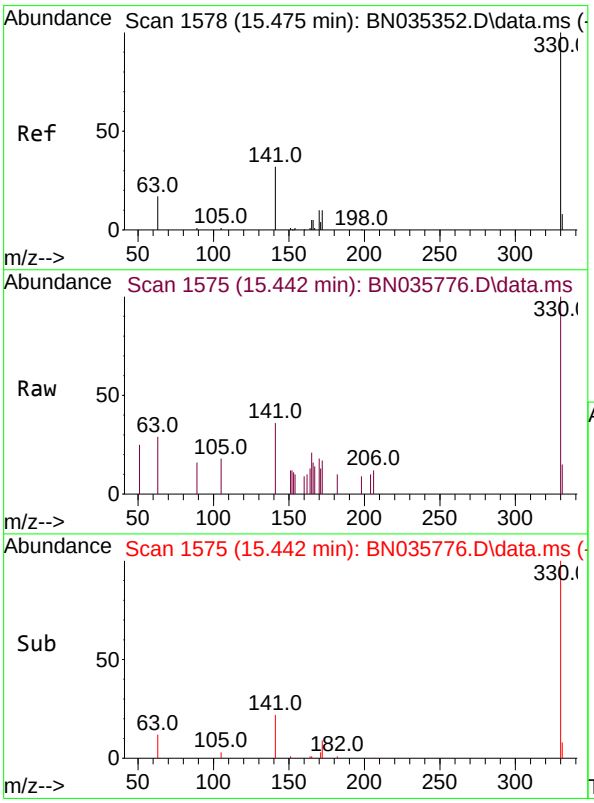
Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	47.7	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

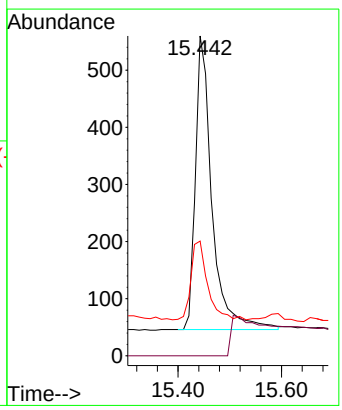


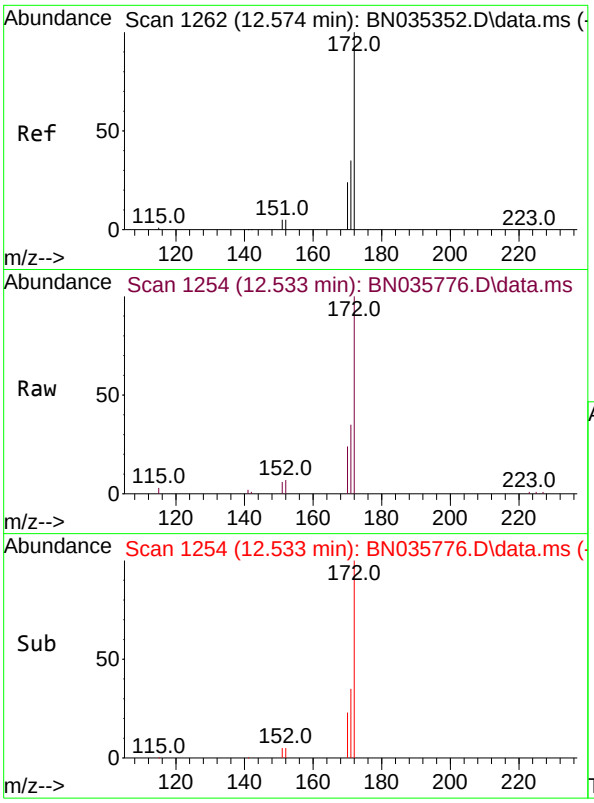


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:330 Resp: 1206

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.3	26.6	40.0#

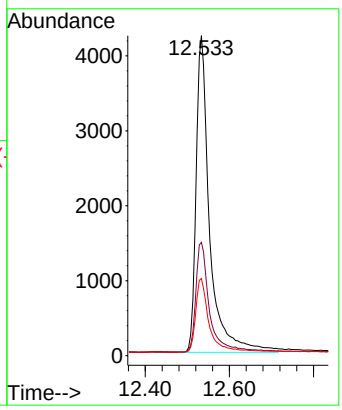




#15
2-Fluorobiphenyl
Concen: 0.424 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:172 Resp: 943

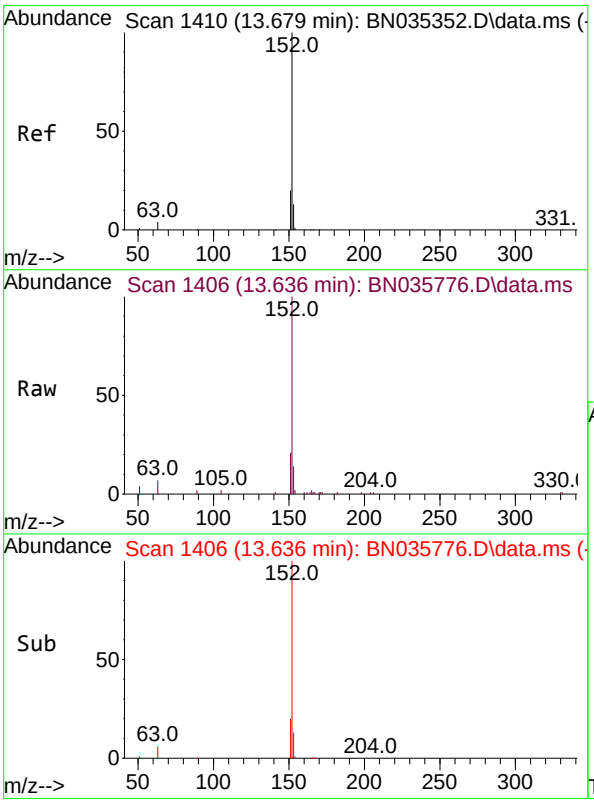
Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

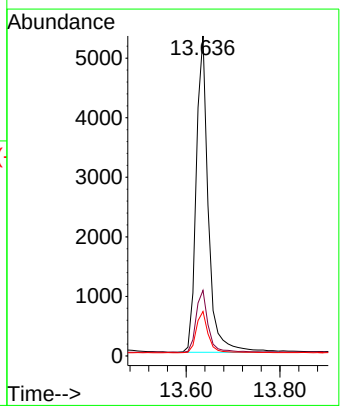
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

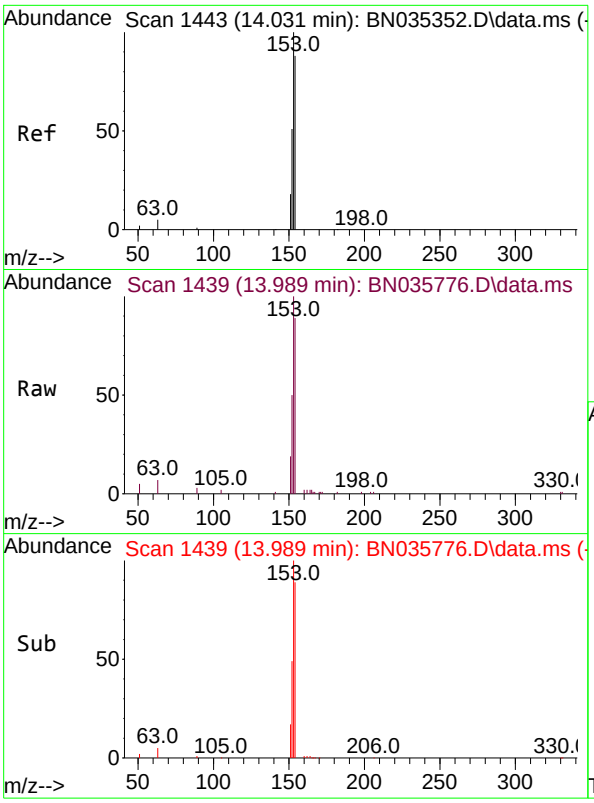


#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 9517

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6

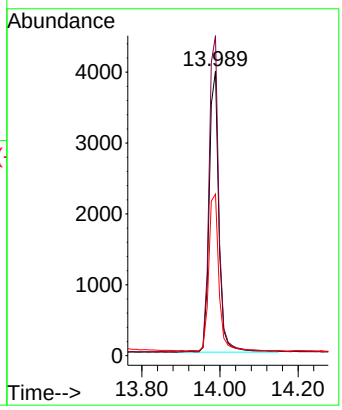




#17
Acenaphthene
Concen: 0.415 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:154 Resp: 682(

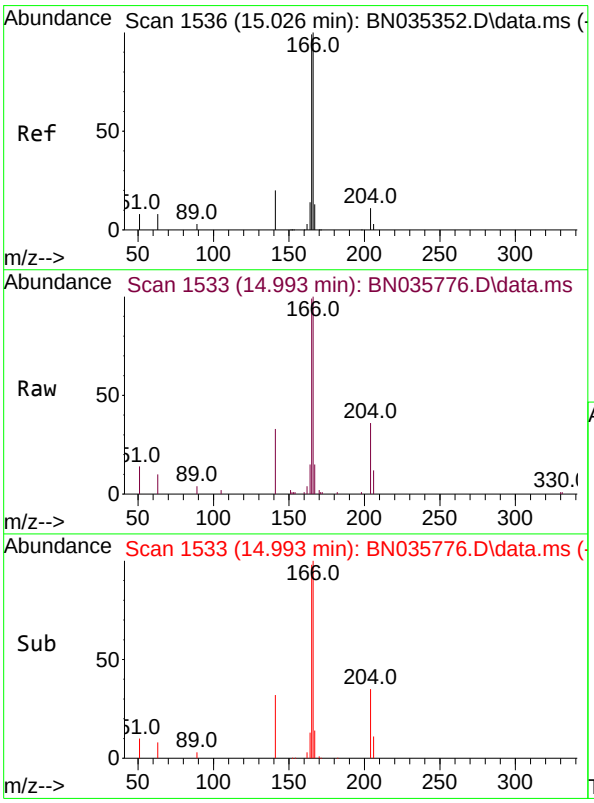
Ion	Ratio	Lower	Upper
154	100		
153	113.5	92.6	139.0
152	58.5	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

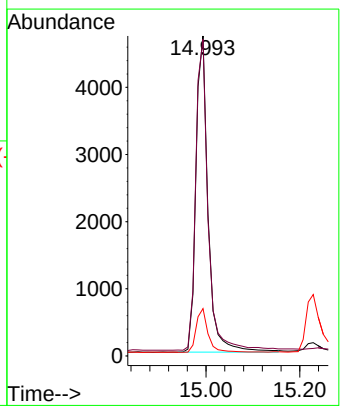
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

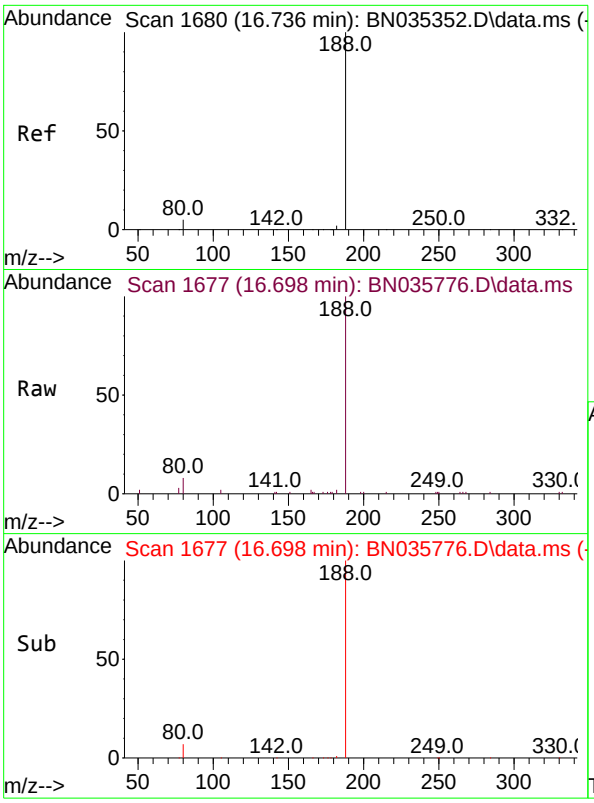


#18
Fluorene
Concen: 0.361 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:166 Resp: 8480

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.6	10.8	16.2

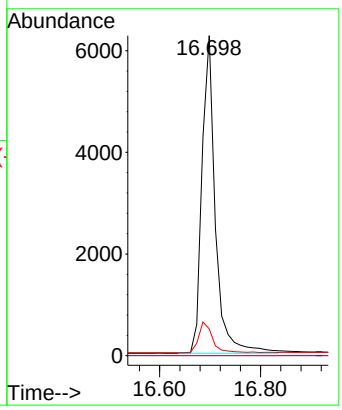




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:188 Resp: 1154

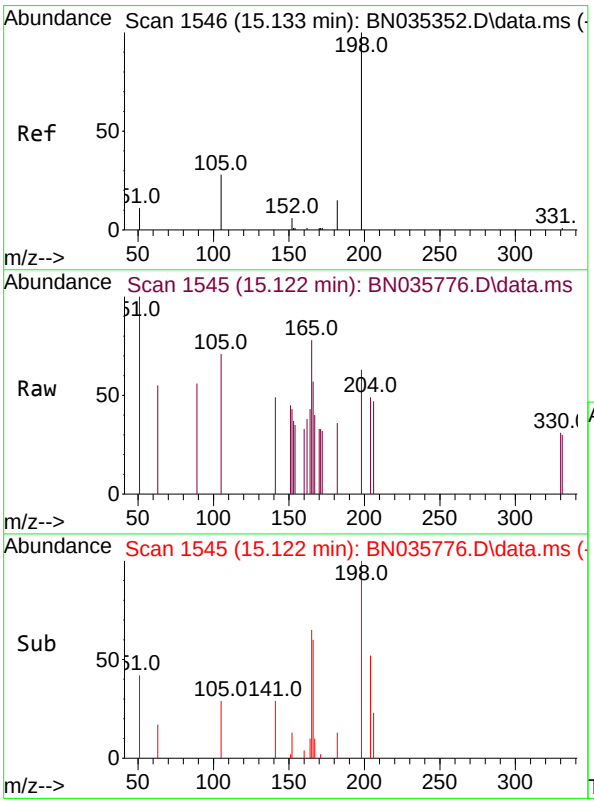
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

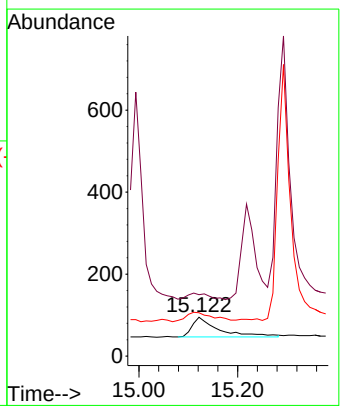
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

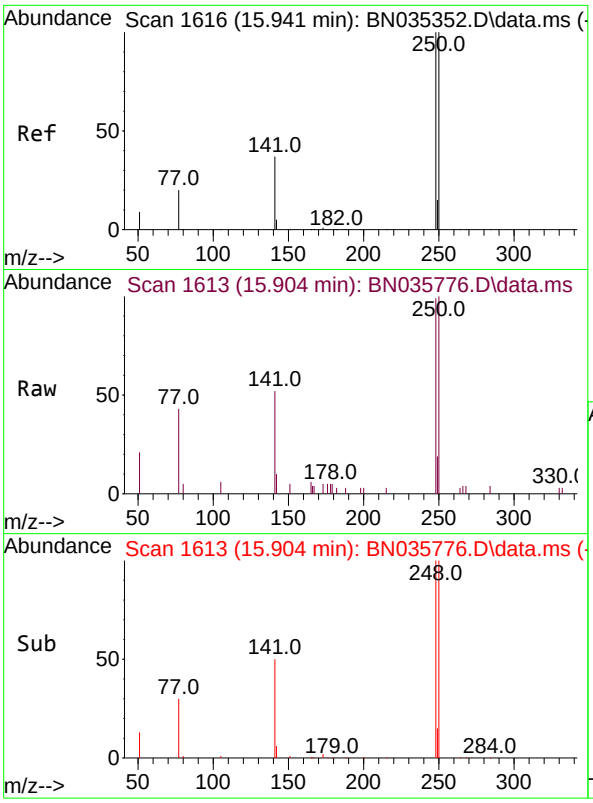


#20
4,6-Dinitro-2-methylphenol
Concen: 0.157 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:198 Resp: 178

Ion	Ratio	Lower	Upper
198	100		
51	157.9	46.5	69.7#
105	111.6	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

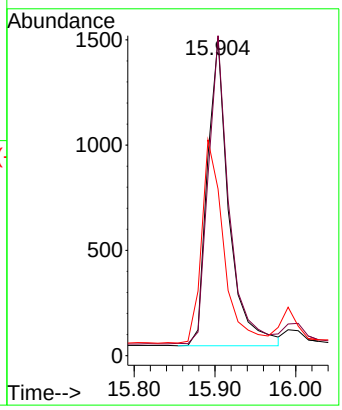
Tgt Ion:248 Resp: 268

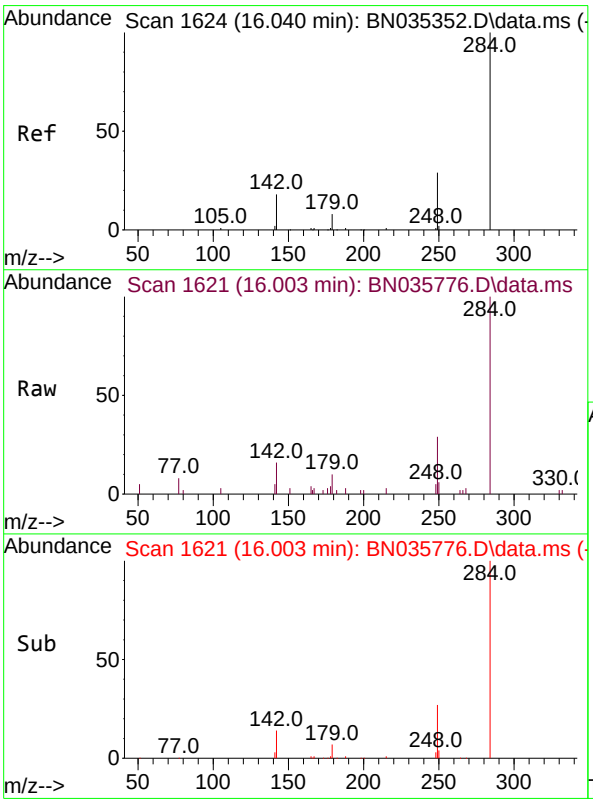
Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	52.5	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

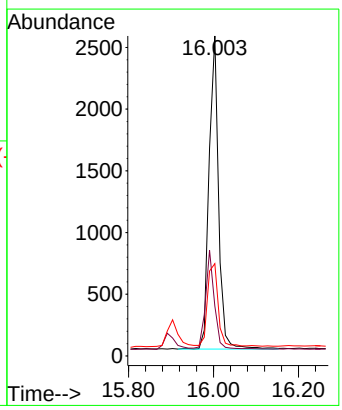


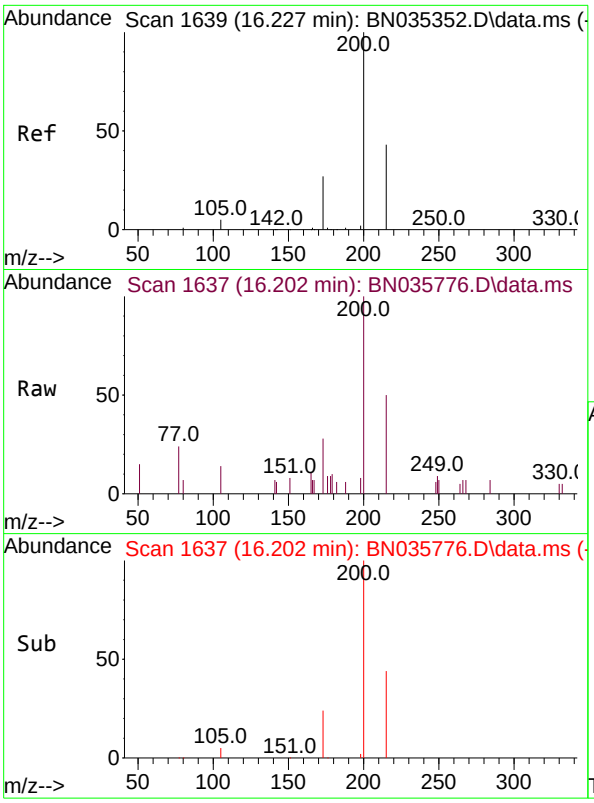


#22
Hexachlorobenzene
Concen: 0.497 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:284 Resp: 3943

Ion	Ratio	Lower	Upper
284	100		
142	29.0	26.7	40.1
249	29.3	24.6	36.8

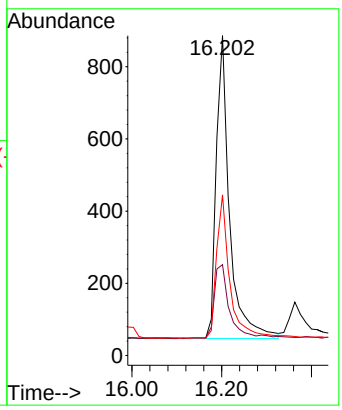




#23
Atrazine
Concen: 0.359 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:200 Resp: 172

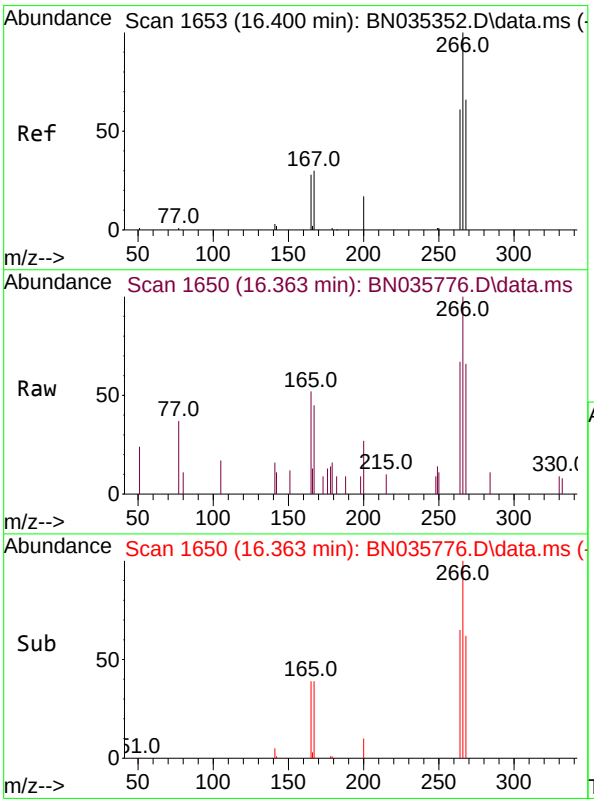
Ion	Ratio	Lower	Upper
200	100		
173	28.4	24.1	36.1
215	50.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

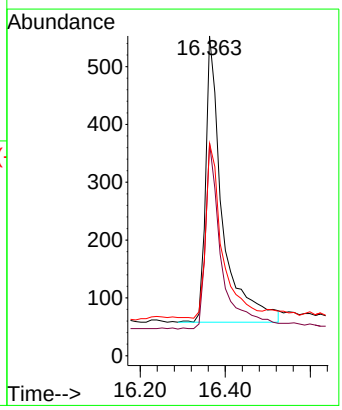
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

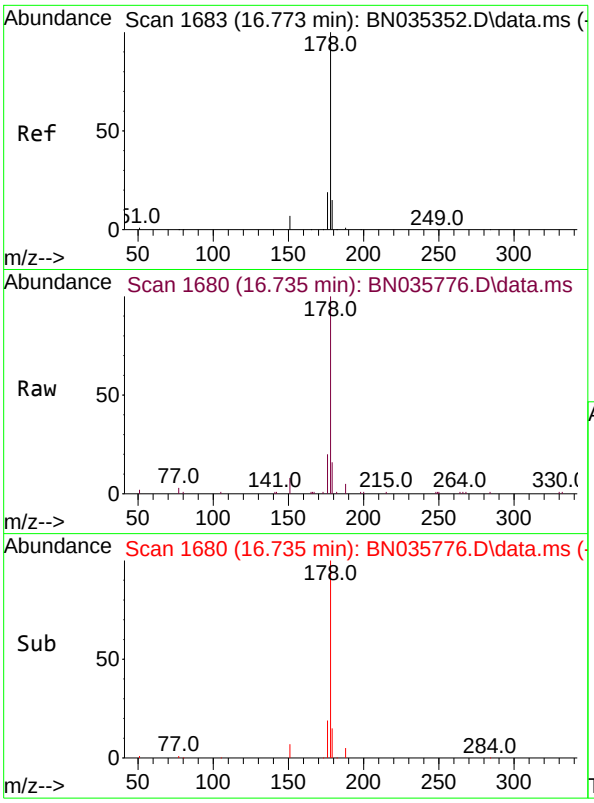


#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:266 Resp: 1350

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	59.1	43.3	64.9

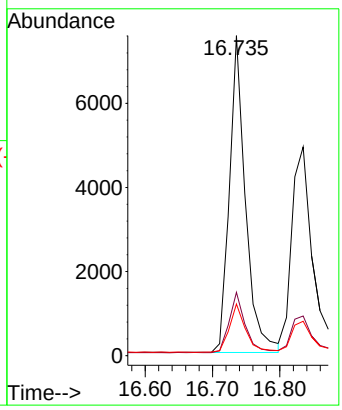




#25
Phenanthrene
Concen: 0.396 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:178 Resp: 1256(

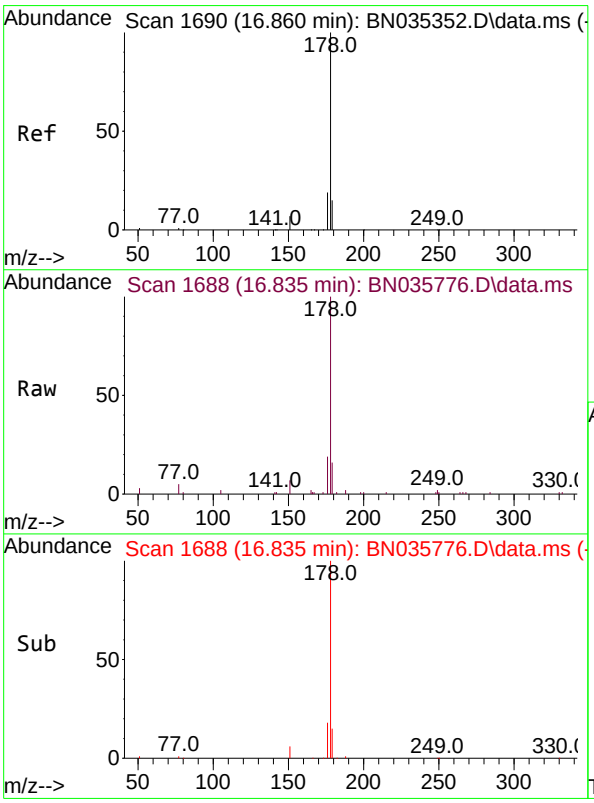
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

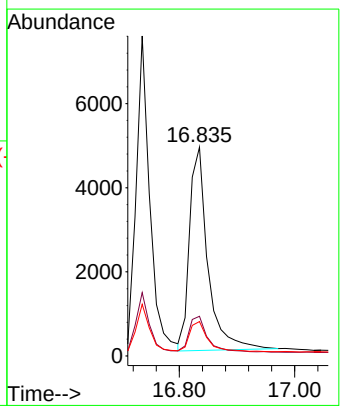
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

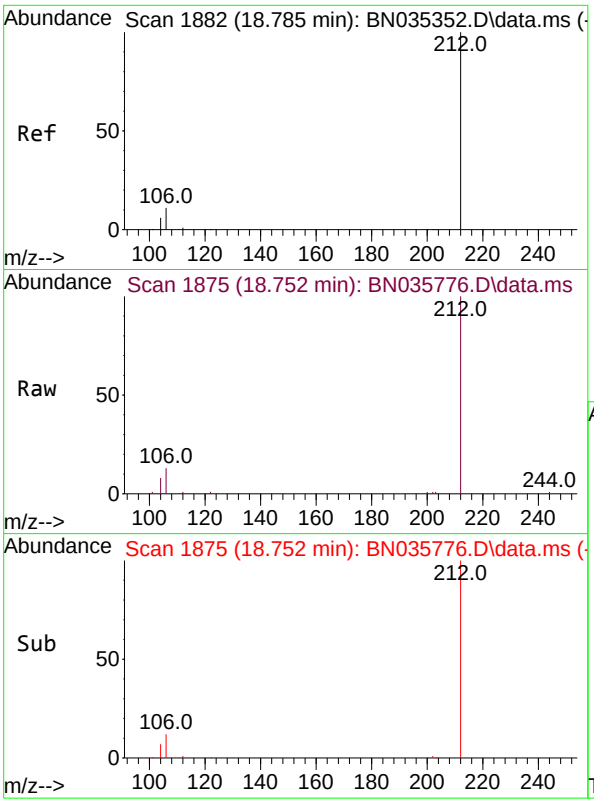


#26
Anthracene
Concen: 0.372 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:178 Resp: 10686

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8

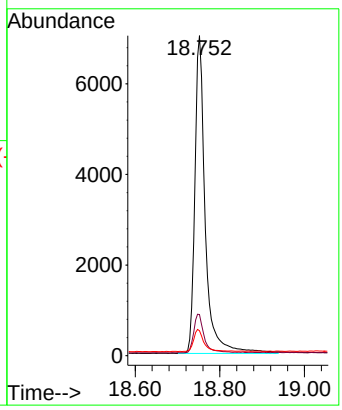




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:212 Resp: 1197

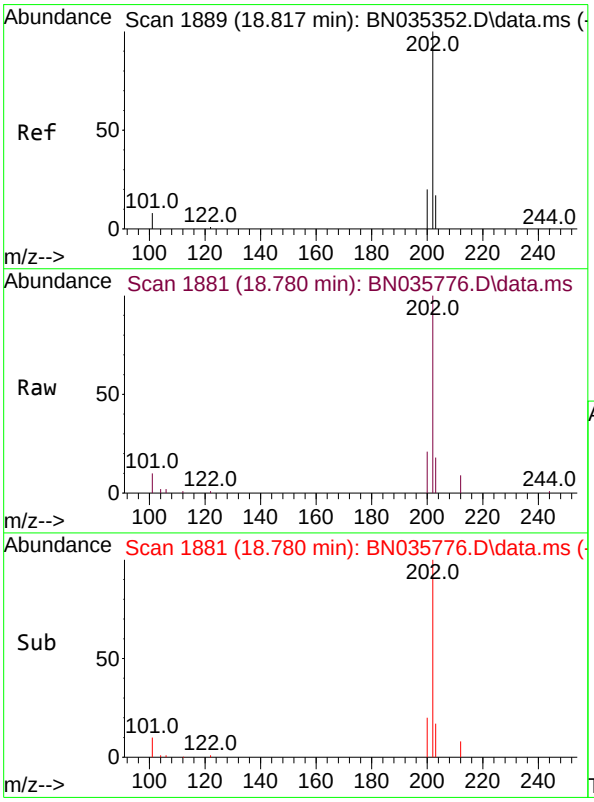
Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

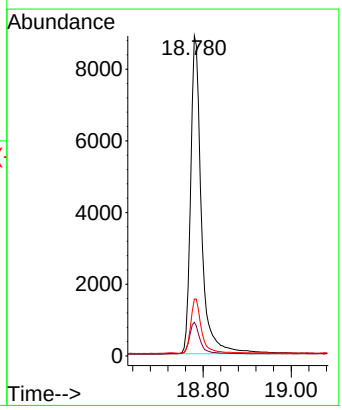
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

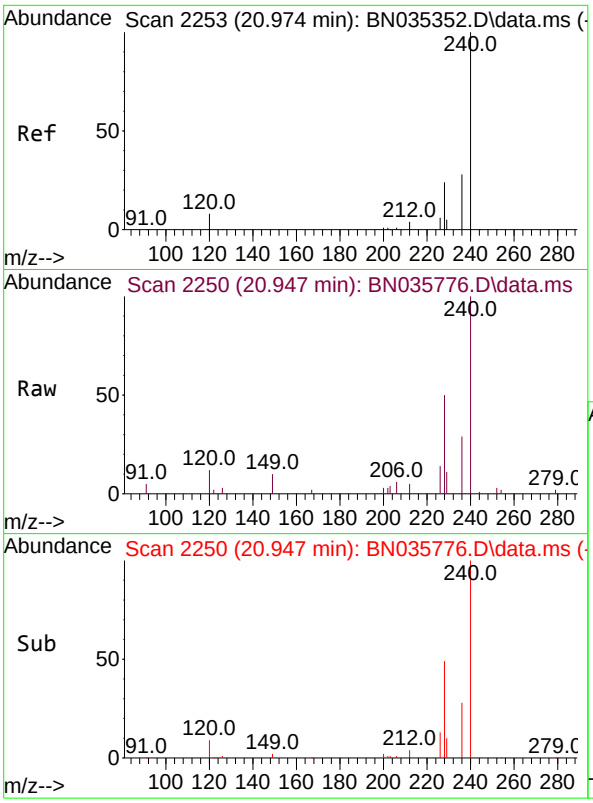


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15101

Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.4	11.0
203	17.2	13.7	20.5

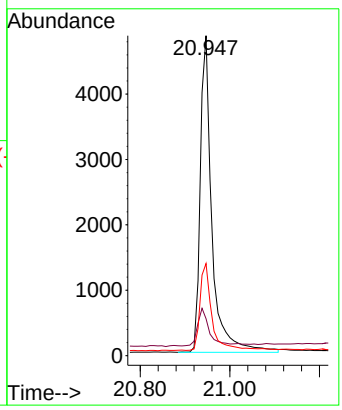




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:240 Resp: 877

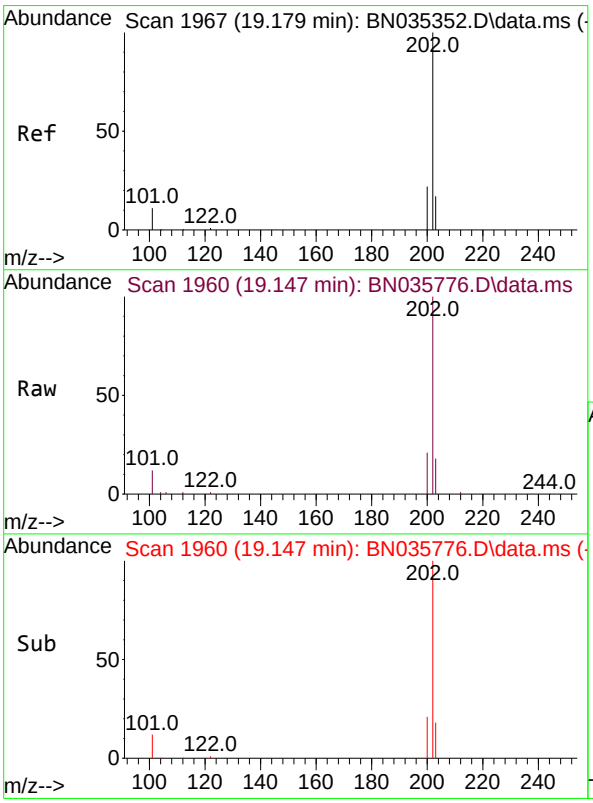
Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

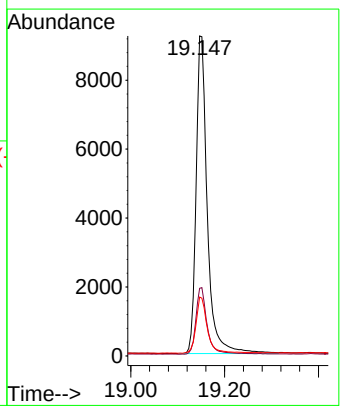
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

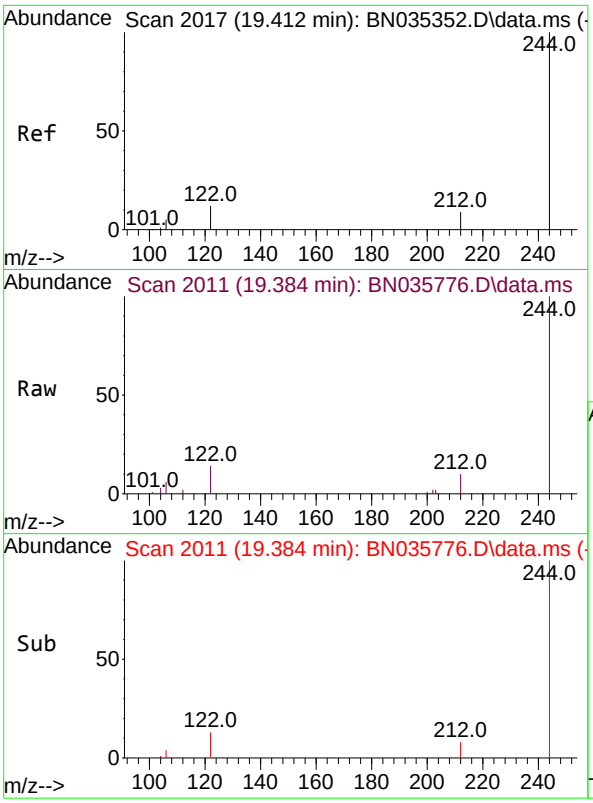


#30
Pyrene
Concen: 0.472 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15291

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.9	14.3	21.5

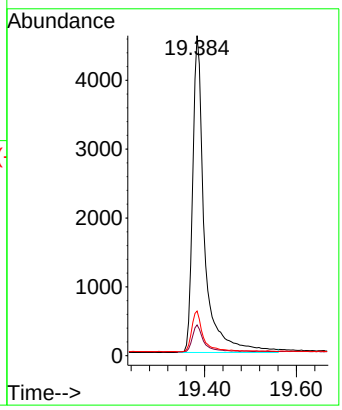




#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:244 Resp: 826

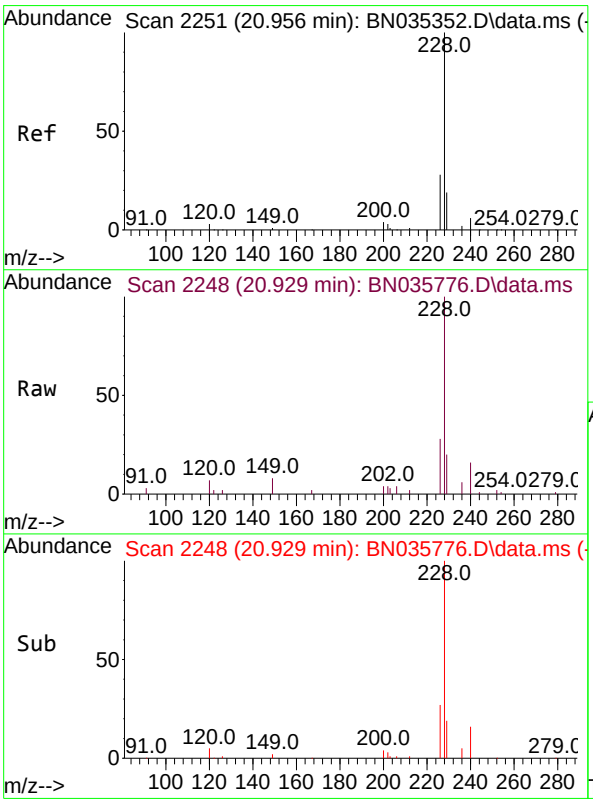
Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

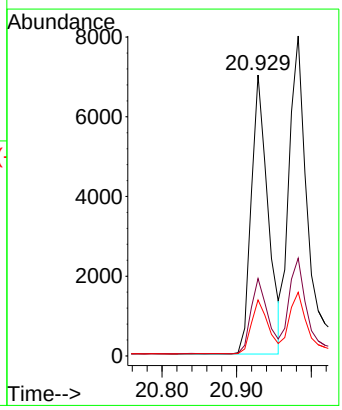
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

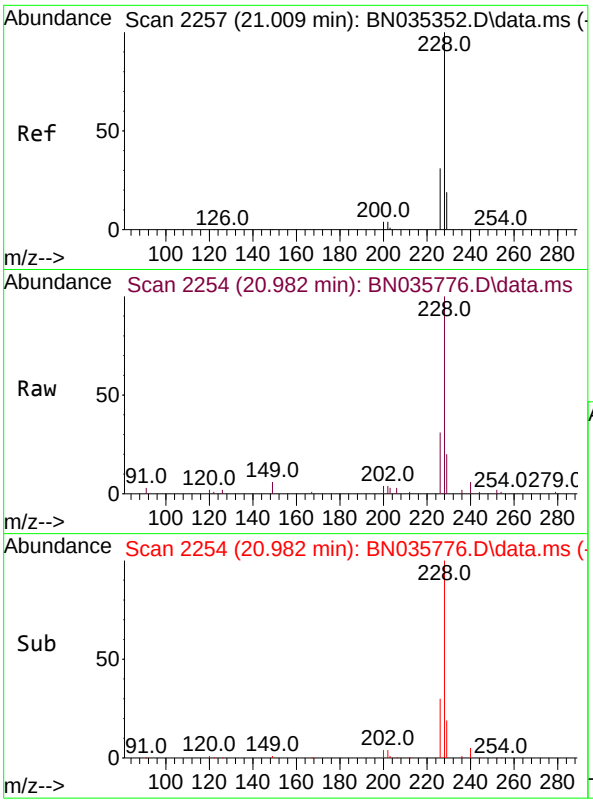


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 10904

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.9	15.8	23.8

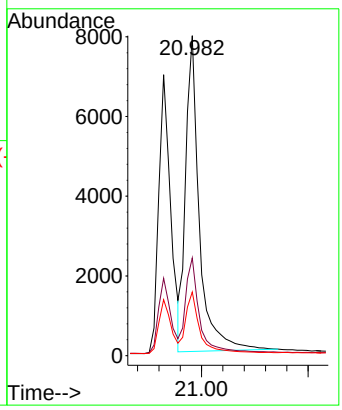




#33
Chrysene
Concen: 0.447 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 1412

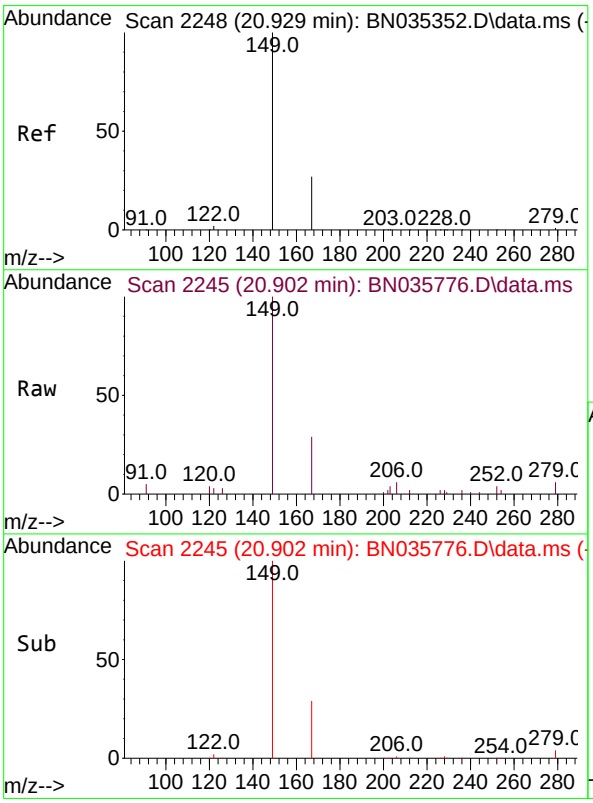
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

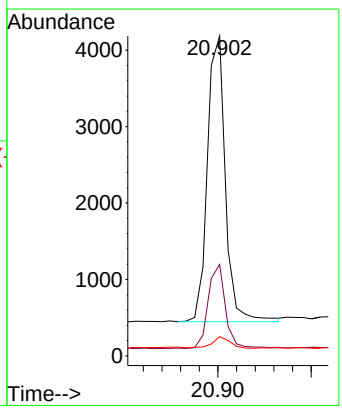
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

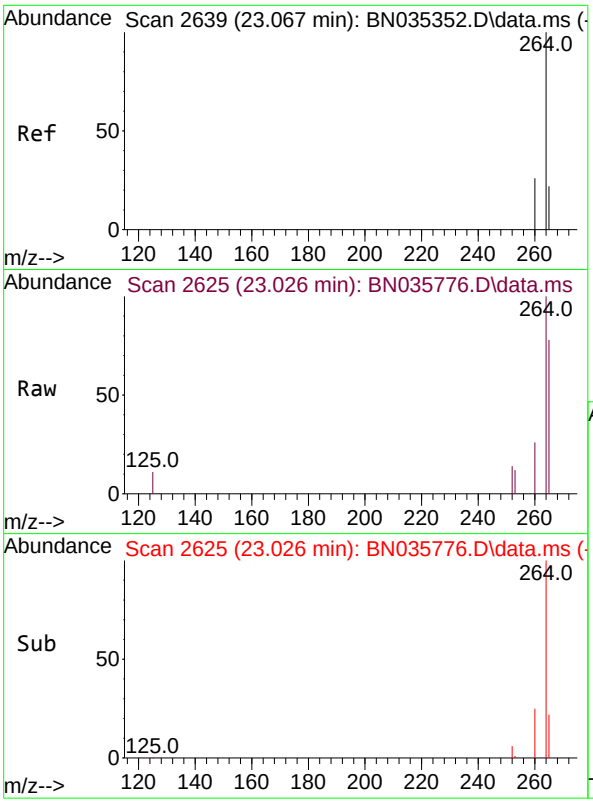


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:149 Resp: 4992

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.0	2.7	4.1

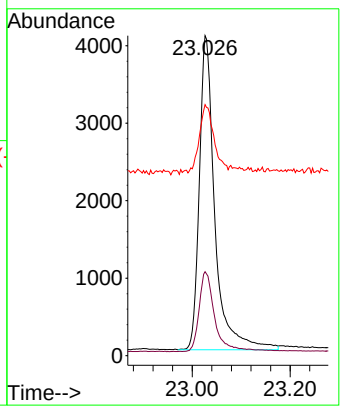




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:264 Resp: 891

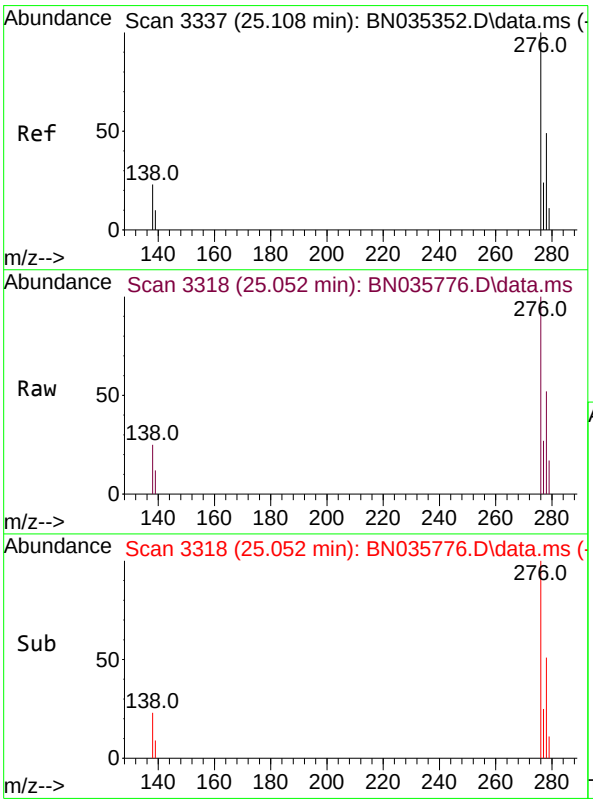
Ion	Ratio	Lower	Upper
264	100		
260	26.3	21.4	32.2
265	78.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

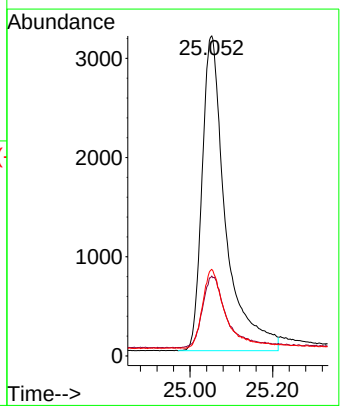
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

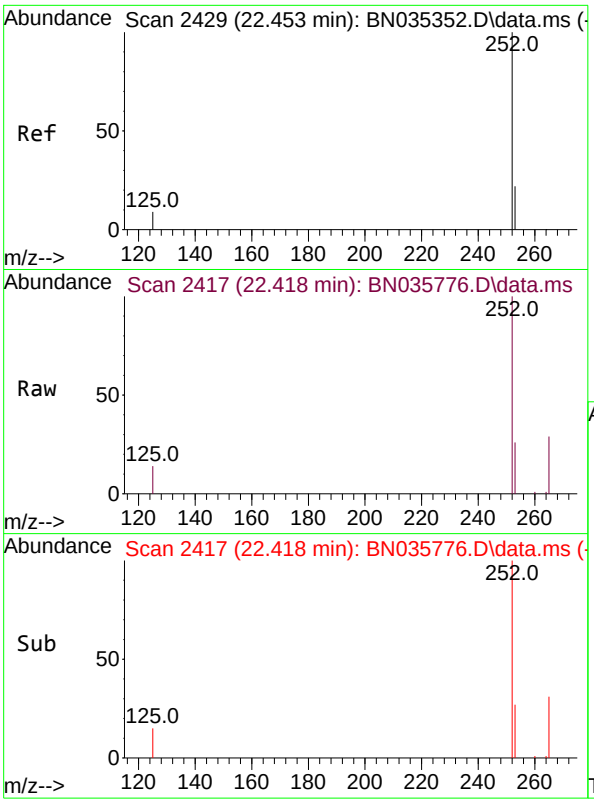


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.359 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:276 Resp: 12530

Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.4	29.0
277	24.2	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.646 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

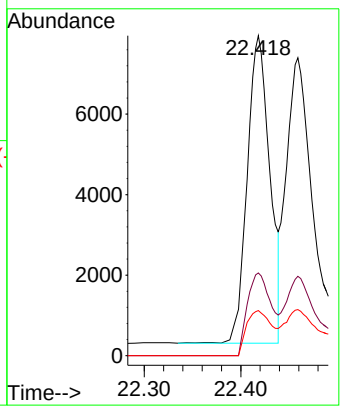
Tgt Ion:252 Resp: 2107

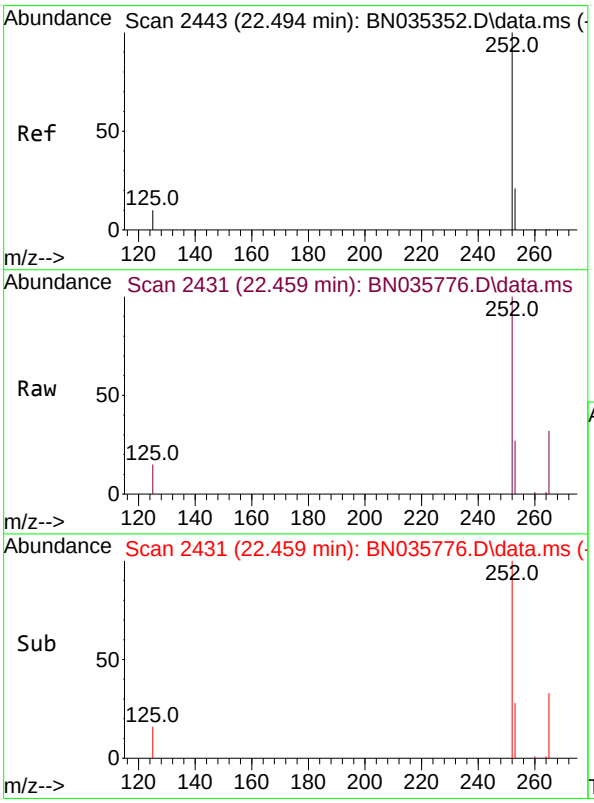
Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.1	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

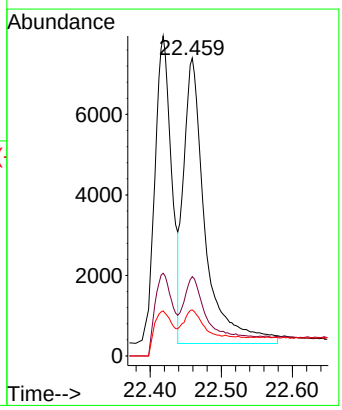


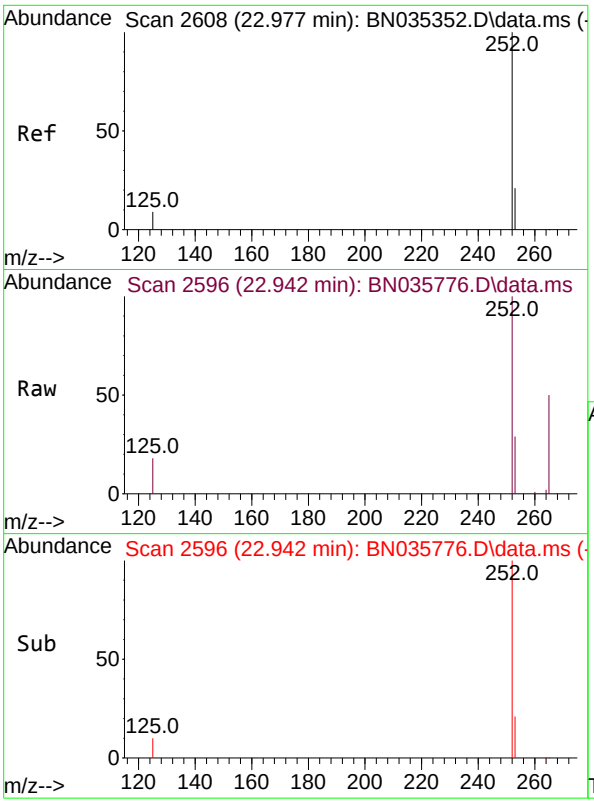


#38
Benzo(k)fluoranthene
Concen: 0.466 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 14978

Ion	Ratio	Lower	Upper
252	100		
253	26.6	19.5	29.3
125	15.5	10.2	15.4#

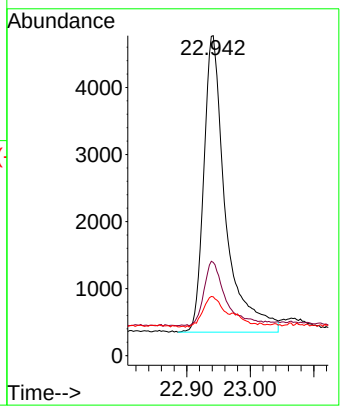




#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 1051

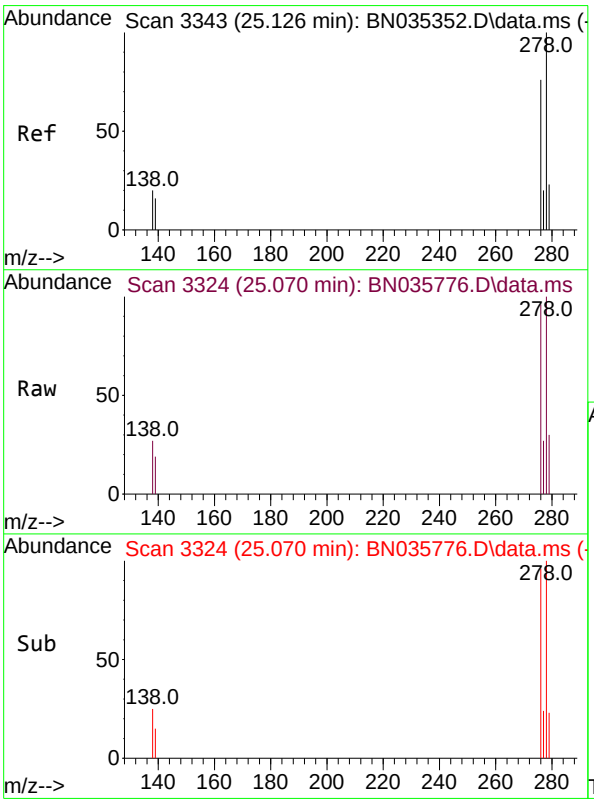
Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	18.4	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

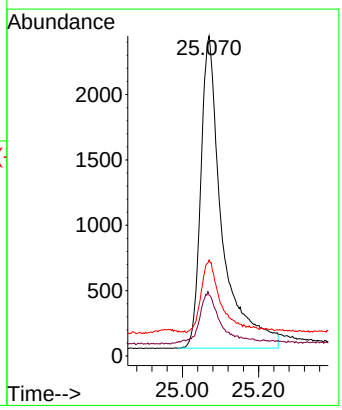
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

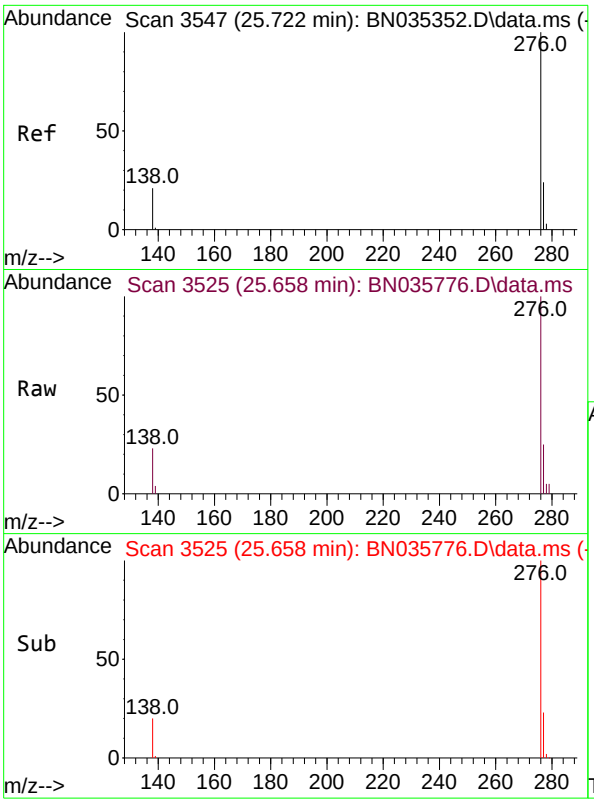


#40
Dibenzo(a,h)anthracene
Concen: 0.337 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:278 Resp: 9258

Ion	Ratio	Lower	Upper
278	100		
139	19.0	14.2	21.4
279	30.0	20.5	30.7

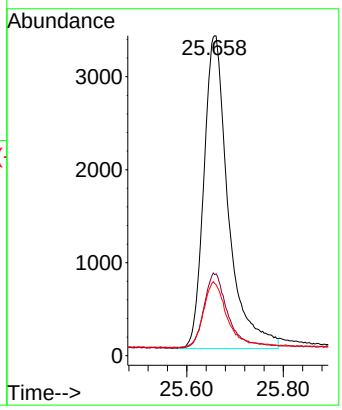




#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:276 Resp: 1183

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	22.6	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	190#	0.00
2		1,4-Dioxane	0.382	0.429	-12.3	216#	0.00
3		n-Nitrosodimethylamine	0.319	0.329	-3.1	191#	0.00
4	S	2-Fluorophenol	1.001	1.008	-0.7	188#	0.00
5	S	Phenol-d6	1.204	1.111	7.7	177#	-0.01
6		bis(2-Chloroethyl)ether	1.012	1.016	-0.4	194#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	193#	-0.01
8	S	Nitrobenzene-d5	0.244	0.284	-16.4	234#	-0.01
9		Naphthalene	1.055	1.082	-2.6	200#	-0.01
10		Hexachlorobutadiene	0.243	0.266	-9.5	208#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.601	4.0	188#	-0.01
12		2-Methylnaphthalene	0.755	0.691	8.5	180#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	155#	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.205	27.8#	124	-0.01
15	S	2-Fluorobiphenyl	1.512	1.601	-5.9	165#	-0.01
16		Acenaphthylene	1.680	1.615	3.9	157#	-0.01
17		Acenaphthene	1.115	1.158	-3.9	165#	-0.01
18		Fluorene	1.596	1.439	9.8	145	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.015	61.5#	53	0.00
21		4-Bromophenyl-phenylether	0.234	0.233	0.4	125	-0.01
22		Hexachlorobenzene	0.275	0.341	-24.0	152#	-0.01
23		Atrazine	0.167	0.149	10.8	118	0.00
24		Pentachlorophenol	0.120	0.117	2.5	149	-0.01
25		Phenanthrene	1.099	1.088	1.0	124	-0.01
26		Anthracene	0.994	0.925	6.9	120	0.00
27	SURR	Fluoranthene-d10	1.134	1.037	8.6	117	0.00
28		Fluoranthene	1.481	1.308	11.7	112	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30		Pyrene	1.477	1.744	-18.1	109	-0.01
31	S	Terphenyl-d14	0.789	0.943	-19.5	110	0.00
32		Benzo(a)anthracene	1.399	1.243	11.2	84	0.00
33		Chrysene	1.443	1.611	-11.6	103	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.569	-2.9	102	0.00
35	I	Perylene-d12	1.000	1.000	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.405	10.2	75	-0.01
37		Benzo(b)fluoranthene	1.463	2.363	-61.5#	148	-0.01
38		Benzo(k)fluoranthene	1.440	1.680	-16.7	99	-0.01
39	C	Benzo(a)pyrene	1.205	1.179	2.2	85	0.00
40		Dibenzo(a,h)anthracene	1.234	1.038	15.9	72	-0.01
41		Benzo(g,h,i)perylene	1.289	1.327	-2.9	87	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	190	0.00
2		1,4-Dioxane	0.400	0.448	-12.0	216	0.00
3		n-Nitrosodimethylamine	0.400	0.413	-3.2	191	0.00
4	S	2-Fluorophenol	0.400	0.403	-0.8	188	0.00
5	S	Phenol-d6	0.400	0.369	7.8	177	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.402	-0.5	194	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	193	-0.01
8	S	Nitrobenzene-d5	0.400	0.466	-16.5	234	-0.01
9		Naphthalene	0.400	0.410	-2.5	200	-0.01
10		Hexachlorobutadiene	0.400	0.437	-9.2	208	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.384	4.0	188	-0.01
12		2-Methylnaphthalene	0.400	0.366	8.5	180	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	155	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.288	28.0#	124	-0.01
15	S	2-Fluorobiphenyl	0.400	0.424	-6.0	165	-0.01
16		Acenaphthylene	0.400	0.385	3.8	157	-0.01
17		Acenaphthene	0.400	0.415	-3.7	165	-0.01
18		Fluorene	0.400	0.361	9.8	145	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.157	60.8#	53	0.00
21		4-Bromophenyl-phenylether	0.400	0.398	0.5	125	-0.01
22		Hexachlorobenzene	0.400	0.497	-24.2	152	-0.01
23		Atrazine	0.400	0.359	10.3	118	0.00
24		Pentachlorophenol	0.400	0.391	2.3	149	-0.01
25		Phenanthrene	0.400	0.396	1.0	124	-0.01
26		Anthracene	0.400	0.372	7.0	120	0.00
27	SURR	Fluoranthene-d10	0.400	0.366	8.5	117	0.00
28		Fluoranthene	0.400	0.353	11.8	112	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30		Pyrene	0.400	0.472	-18.0	109	-0.01
31	S	Terphenyl-d14	0.400	0.478	-19.5	110	0.00
32		Benzo(a)anthracene	0.400	0.355	11.3	84	0.00
33		Chrysene	0.400	0.447	-11.7	103	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.412	-3.0	102	0.00
35	I	Perylene-d12	0.400	0.400	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.359	10.3	75	-0.01
37		Benzo(b)fluoranthene	0.400	0.646	-61.5#	148	-0.01
38		Benzo(k)fluoranthene	0.400	0.466	-16.5	99	-0.01
39	C	Benzo(a)pyrene	0.400	0.391	2.3	85	0.00
40		Dibenzo(a,h)anthracene	0.400	0.337	15.8	72	-0.01
41		Benzo(g,h,i)perylene	0.400	0.412	-3.0	87	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BN035792.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 19:51

Lab File ID: BN035792.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.557		-11.0	50.0
Fluoranthene-d10	1.134	0.972		-14.3	50.0
2-Fluorophenol	1.001	0.954		-4.7	50.0
Phenol-d6	1.204	1.061		-11.9	50.0
Nitrobenzene-d5	0.244	0.295		20.9	50.0
2-Fluorobiphenyl	1.512	1.518		0.4	50.0
2,4,6-Tribromophenol	0.284	0.220		-22.5	50.0
Terphenyl-d14	0.789	0.806		2.2	50.0
1,4-Dioxane	0.382	0.383		0.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.265	152	4653	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	11294	0.400	ng		#-0.01
13) Acenaphthene-d10	13.925	164	6622	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	13445	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	11173	0.400	ng		0.00
35) Perylene-d12	23.029	264	12122	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	4438	0.381	ng		0.00
5) Phenol-d6	6.477	99	4937	0.352	ng		-0.01
8) Nitrobenzene-d5	8.397	82	3336m	0.484	ng		-0.01
11) 2-Methylnaphthalene-d10	11.611	152	6296	0.356	ng		-0.01
14) 2,4,6-Tribromophenol	15.443	330	1460	0.311	ng		-0.01
15) 2-Fluorobiphenyl	12.534	172	10050	0.401	ng		-0.01
27) Fluoranthene-d10	18.752	212	13067	0.343	ng		0.00
31) Terphenyl-d14	19.384	244	9007	0.409	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1781	0.400	ng		100
3) n-Nitrosodimethylamine	3.271	42	1450	0.391	ng	#	87
6) bis(2-Chloroethyl)ether	6.716	93	4124	0.350	ng		100
9) Naphthalene	10.052	128	11411	0.383	ng		99
10) Hexachlorobutadiene	10.340	225	2978	0.433	ng	#	99
12) 2-Methylnaphthalene	11.687	142	7291	0.342	ng		100
16) Acenaphthylene	13.636	152	10309	0.371	ng		99
17) Acenaphthene	13.989	154	7045	0.382	ng		99
18) Fluorene	14.994	166	9147	0.346	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	441	0.334	ng	#	71
21) 4-Bromophenyl-phenylether	15.904	248	2928	0.372	ng	#	95
22) Hexachlorobenzene	16.003	284	4080	0.442	ng		97
23) Atrazine	16.202	200	2050	0.366	ng		94
24) Pentachlorophenol	16.363	266	1288	0.321	ng		89
25) Phenanthrene	16.736	178	13655	0.370	ng		100
26) Anthracene	16.835	178	11693	0.350	ng		99
28) Fluoranthene	18.780	202	16797	0.337	ng		100
30) Pyrene	19.152	202	17165	0.416	ng		100
32) Benzo(a)anthracene	20.929	228	13119	0.336	ng		100
33) Chrysene	20.983	228	16717	0.415	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6294	0.408	ng		100
36) Indeno(1,2,3-cd)pyrene	25.050	276	17740	0.374	ng		99
37) Benzo(b)fluoranthene	22.418	252	23904	0.539	ng		99
38) Benzo(k)fluoranthene	22.462	252	18914m	0.433	ng		
39) Benzo(a)pyrene	22.942	252	13375	0.366	ng	#	93
40) Dibenzo(a,h)anthracene	25.067	278	13081	0.350	ng		97
41) Benzo(g,h,i)perylene	25.661	276	15725	0.402	ng		100

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

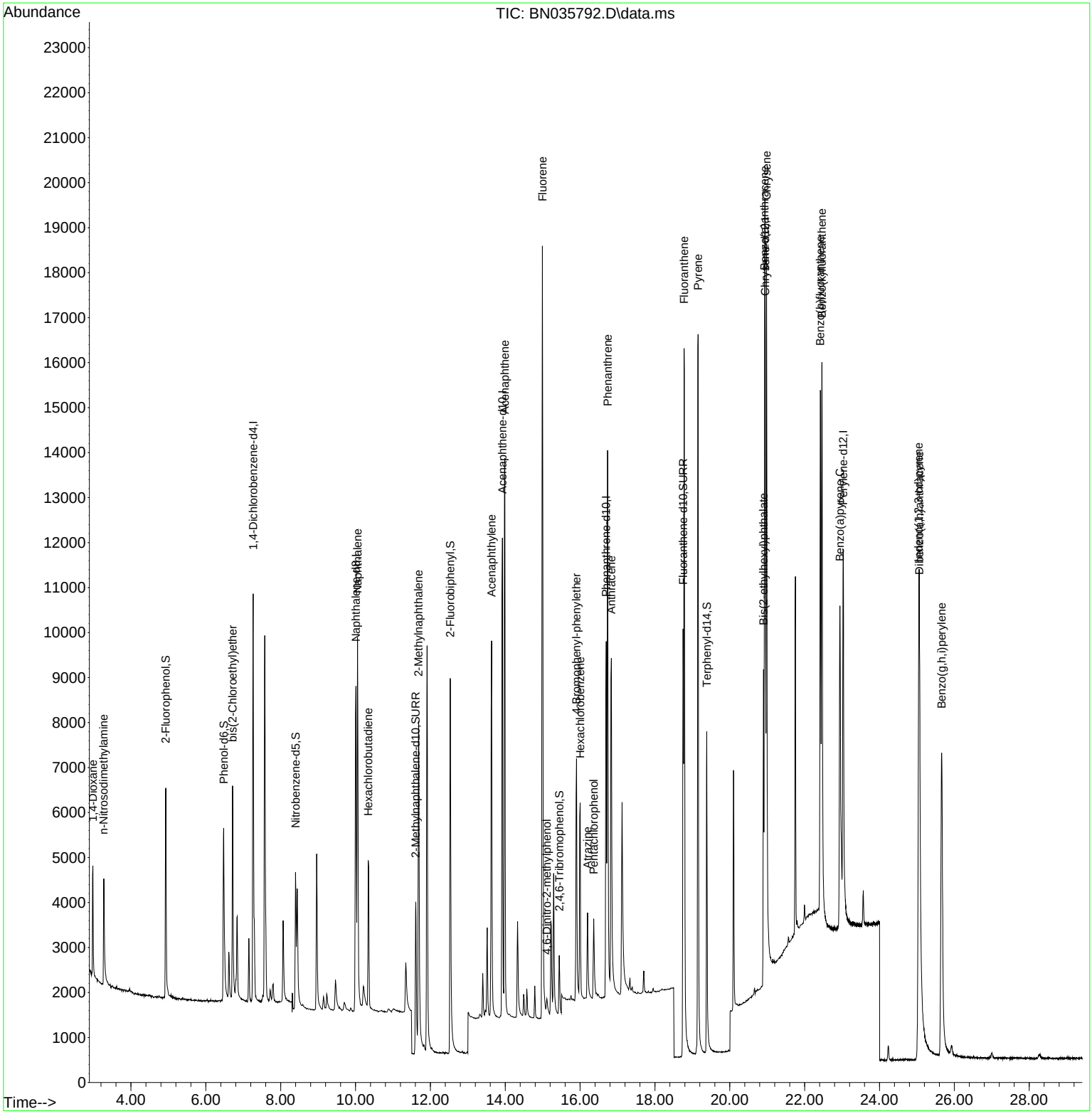
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

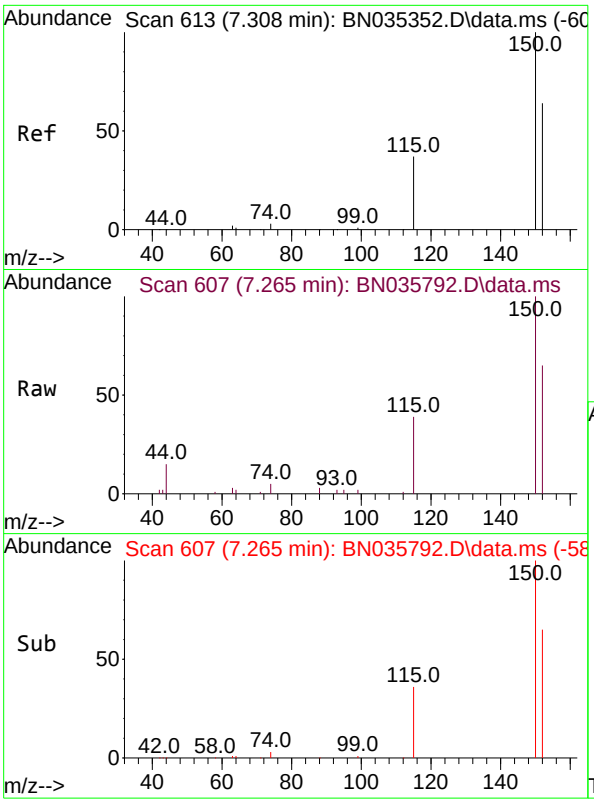
Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

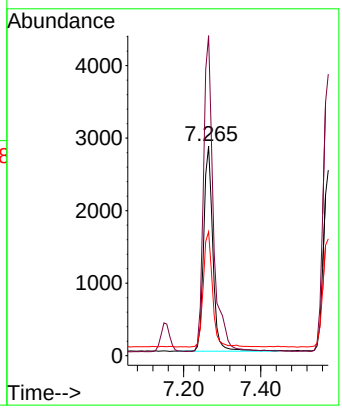




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 465

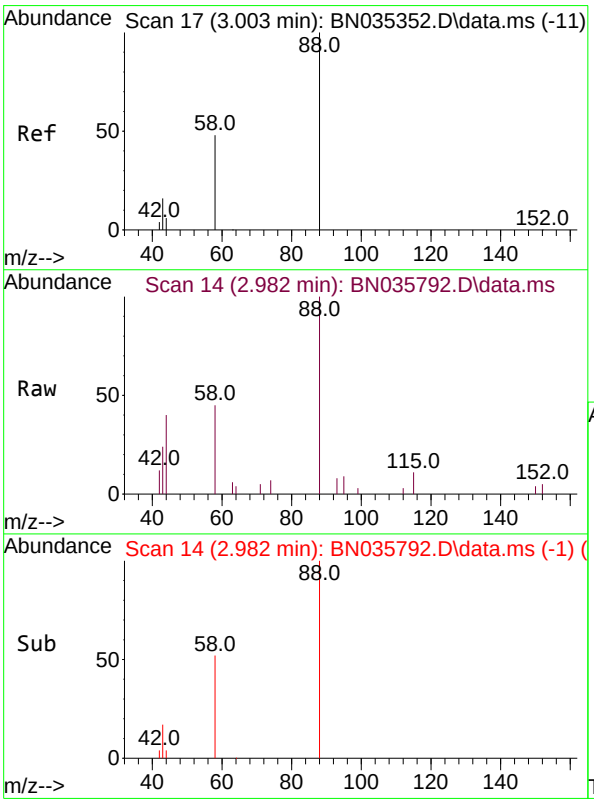
Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.0	186.0
115	59.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

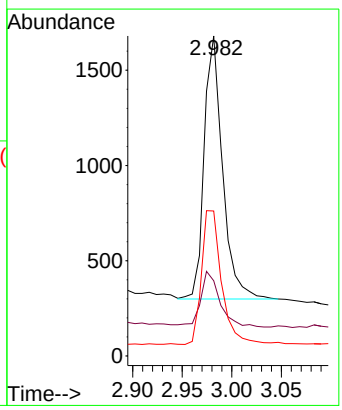
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

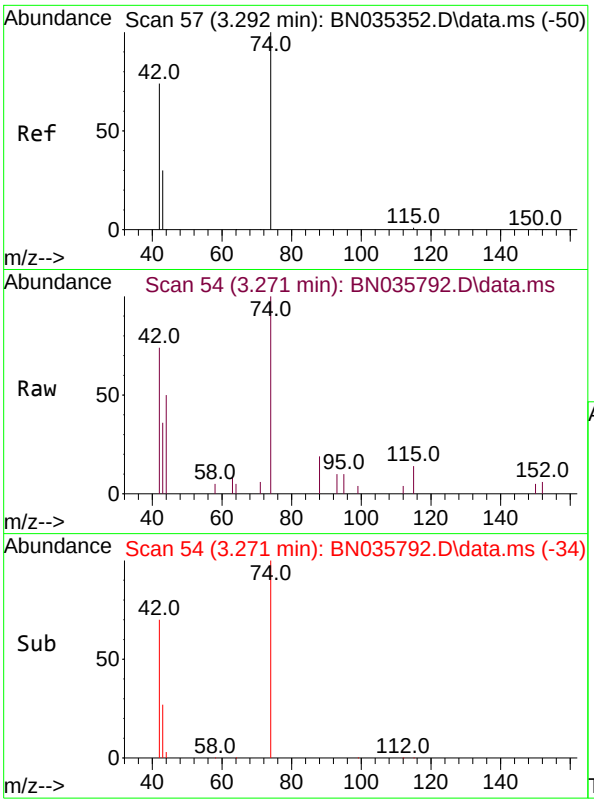


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 88 Resp: 1781

Ion	Ratio	Lower	Upper
88	100		
43	22.0	17.2	25.8
58	55.8	44.5	66.7

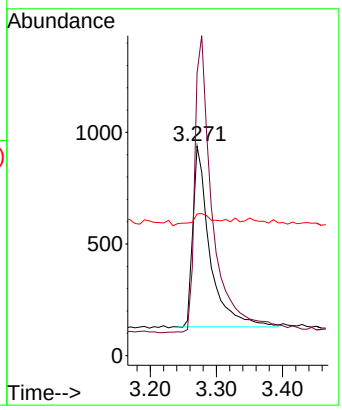




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 42 Resp: 145

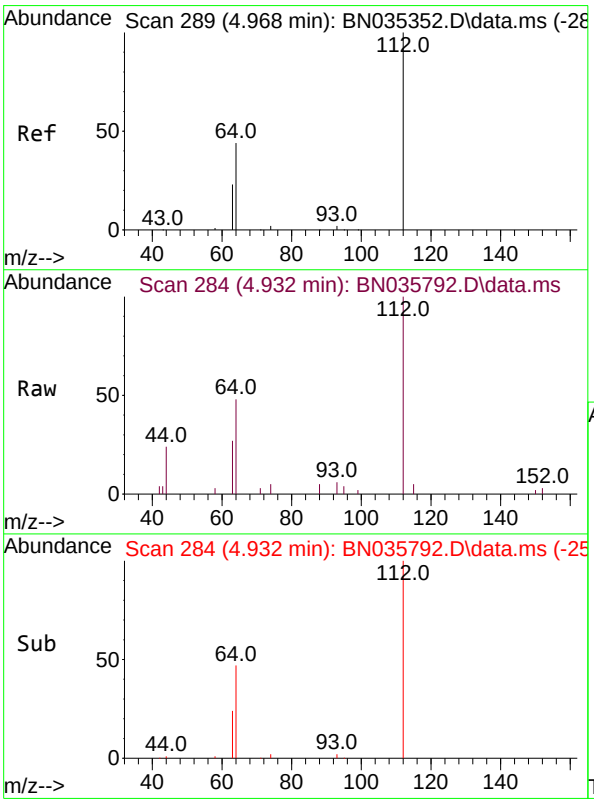
Ion	Ratio	Lower	Upper
42	100		
74	173.0	124.9	187.3
44	5.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

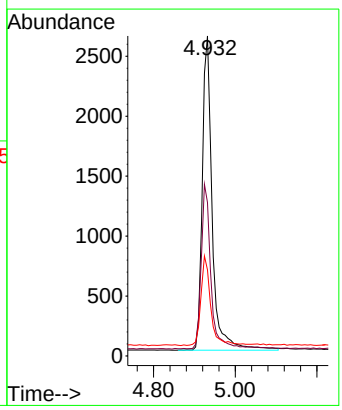
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

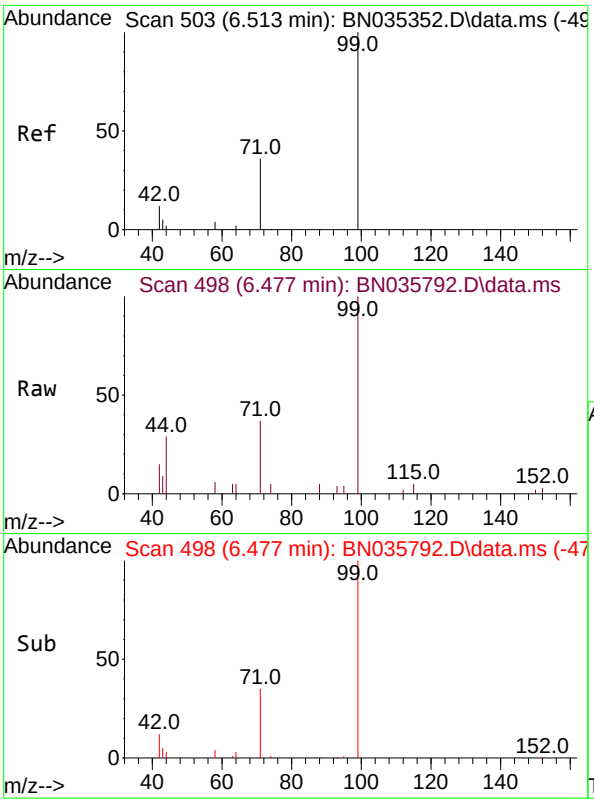


#4
2-Fluorophenol
Concen: 0.381 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:112 Resp: 4438

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.8
63	28.3	21.0	31.6





#5
Phenol-d6
Concen: 0.352 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

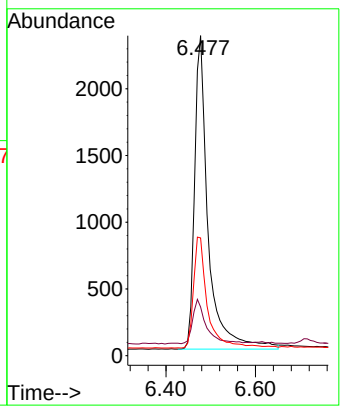
Tgt Ion: 99 Resp: 493

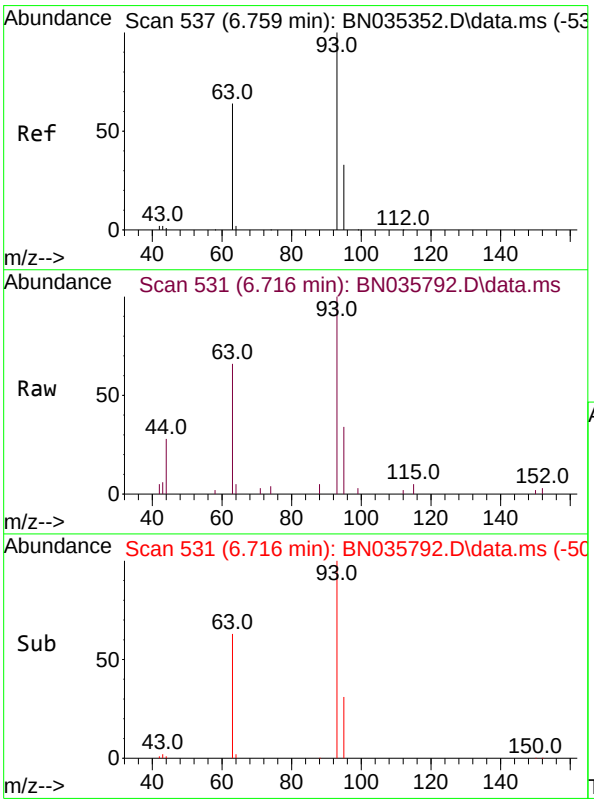
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.4	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

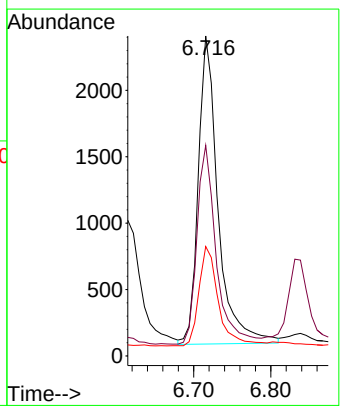


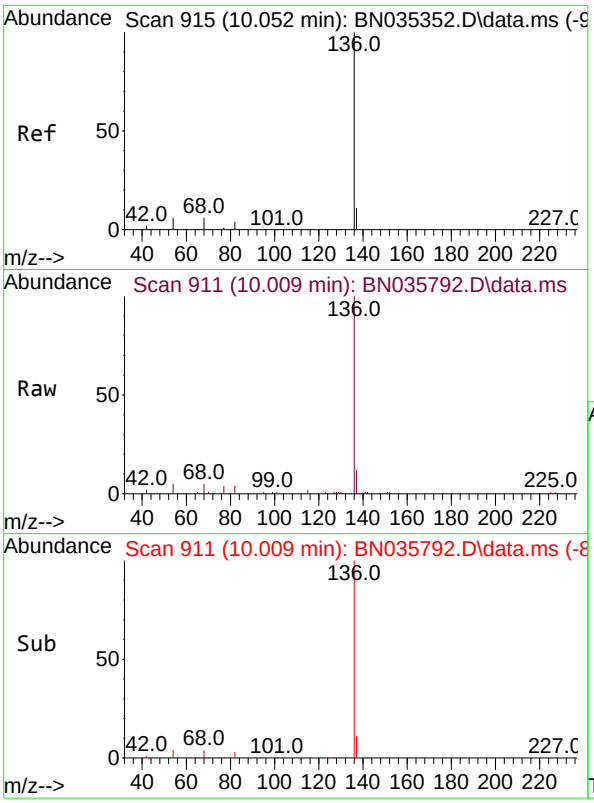


#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 93 Resp: 4124

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5

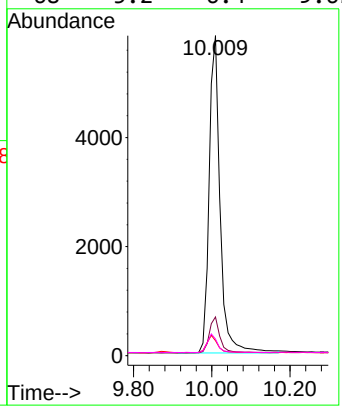




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:136 Resp: 1129

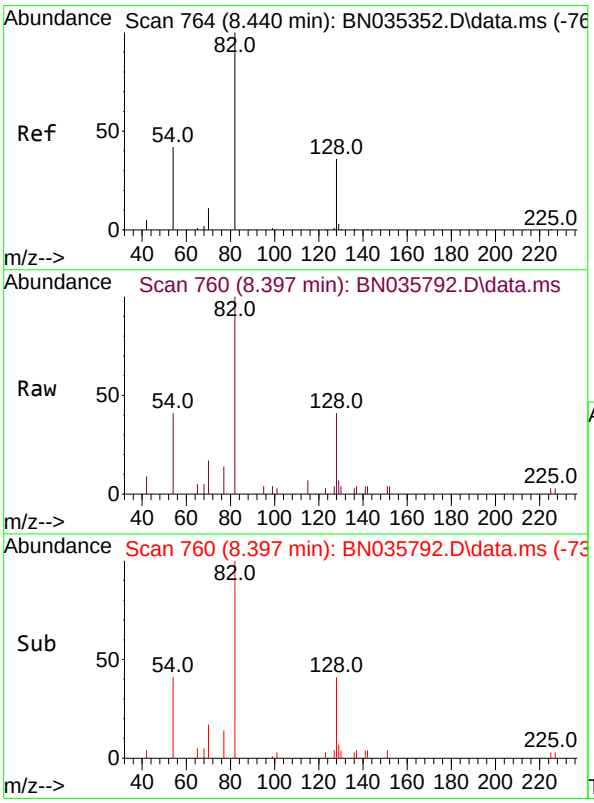
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.2	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

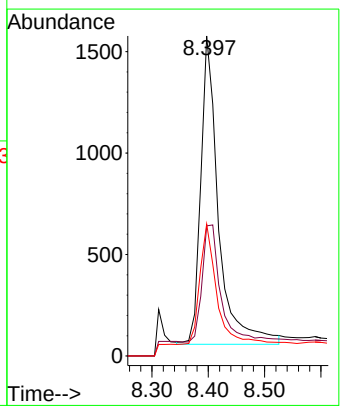
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

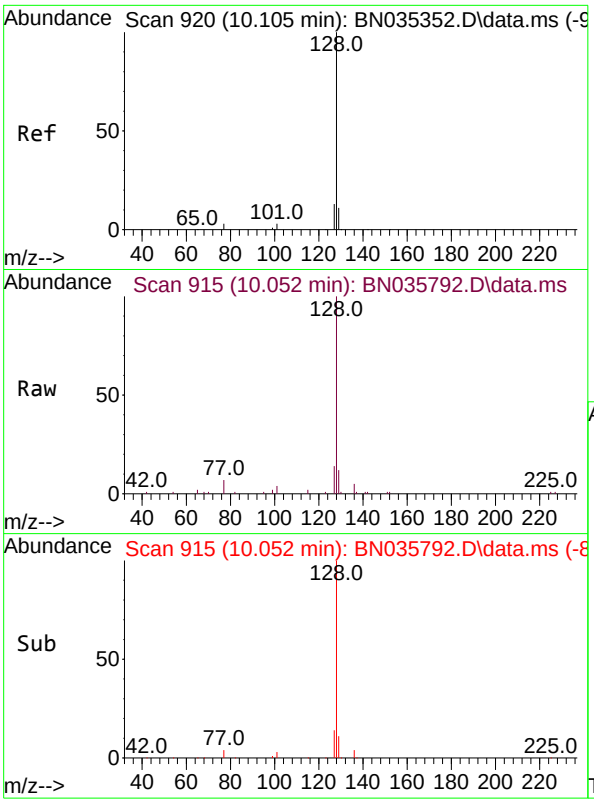


#8
Nitrobenzene-d5
Concen: 0.484 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 82 Resp: 3336

Ion	Ratio	Lower	Upper
82	100		
128	40.6	33.4	50.0
54	41.3	36.7	55.1

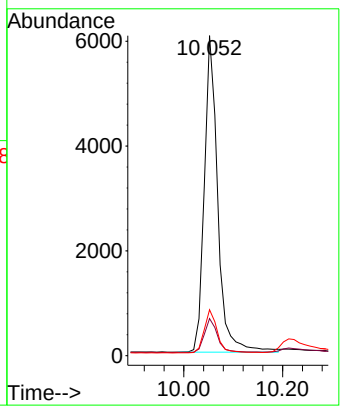




#9
Naphthalene
Concen: 0.383 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:128 Resp: 1141

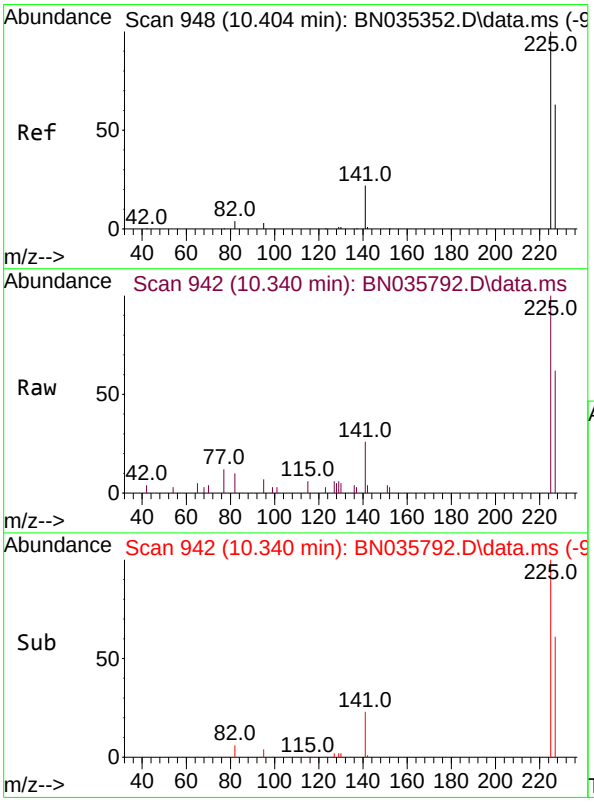
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.8	14.6
127	14.3	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

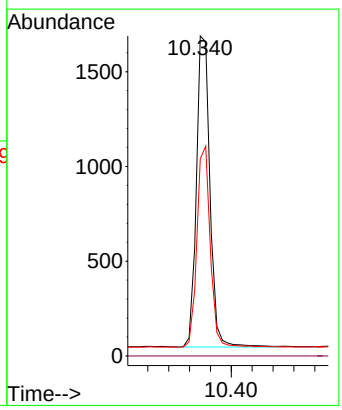
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

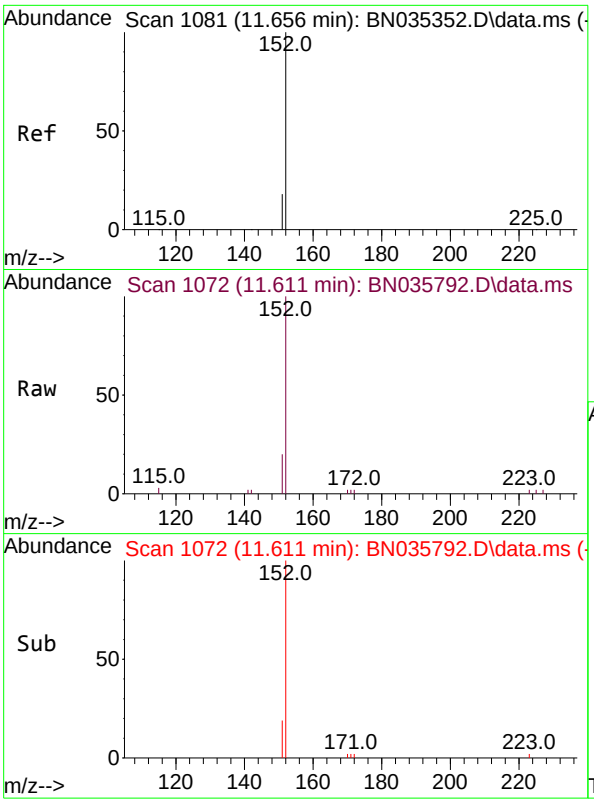


#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:225 Resp: 2978

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9

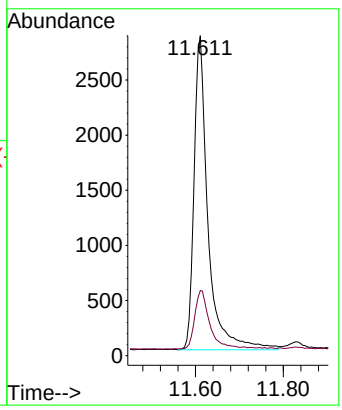




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.611 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 629(

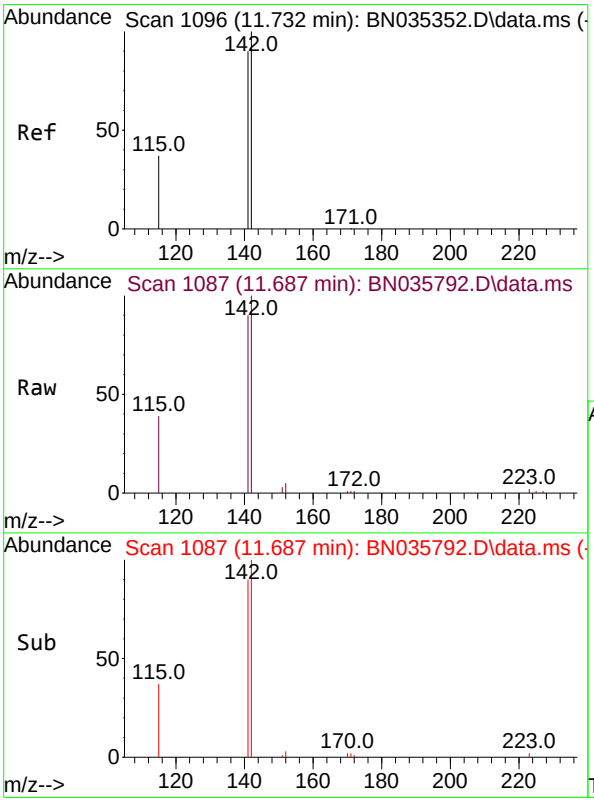
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

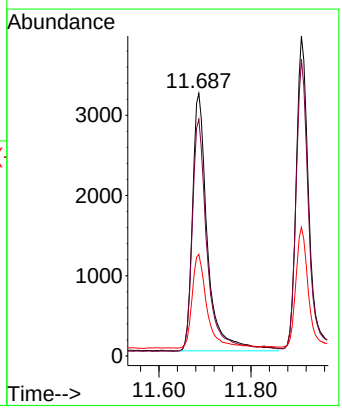
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

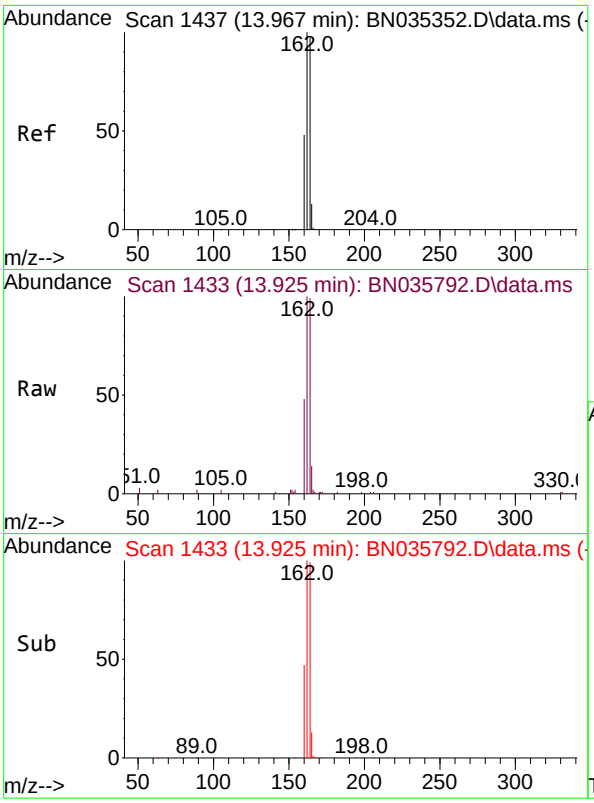


#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:142 Resp: 7291

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	38.7	31.4	47.0

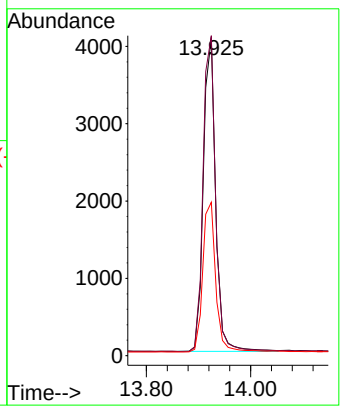




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:164 Resp: 662

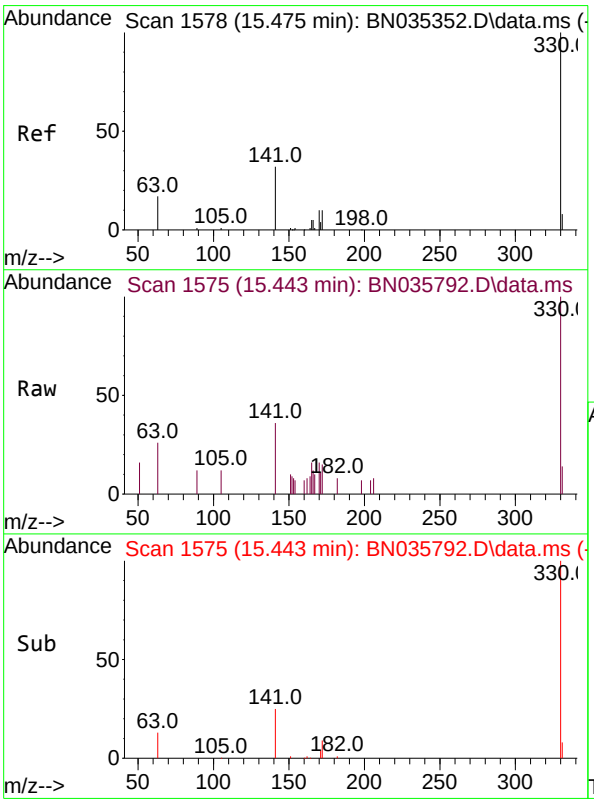
Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.2	123.2
160	48.2	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

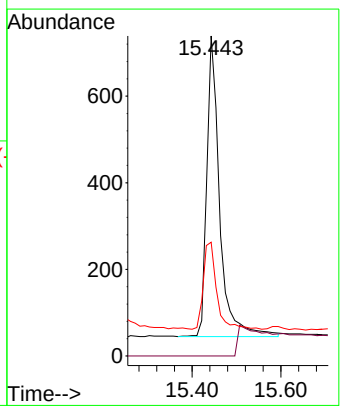
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

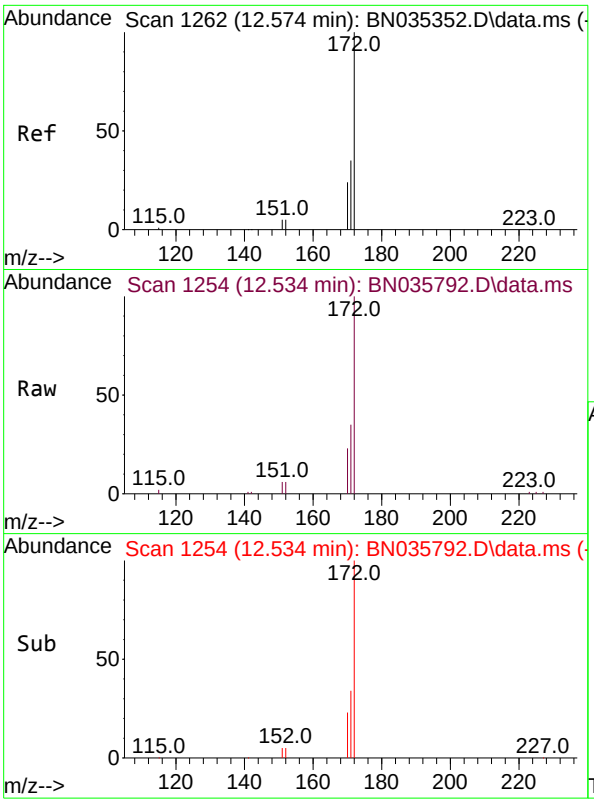


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:330 Resp: 1460

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0

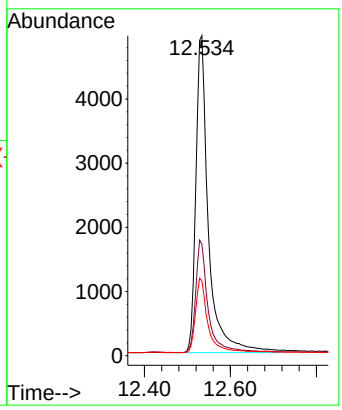




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:172 Resp: 1005

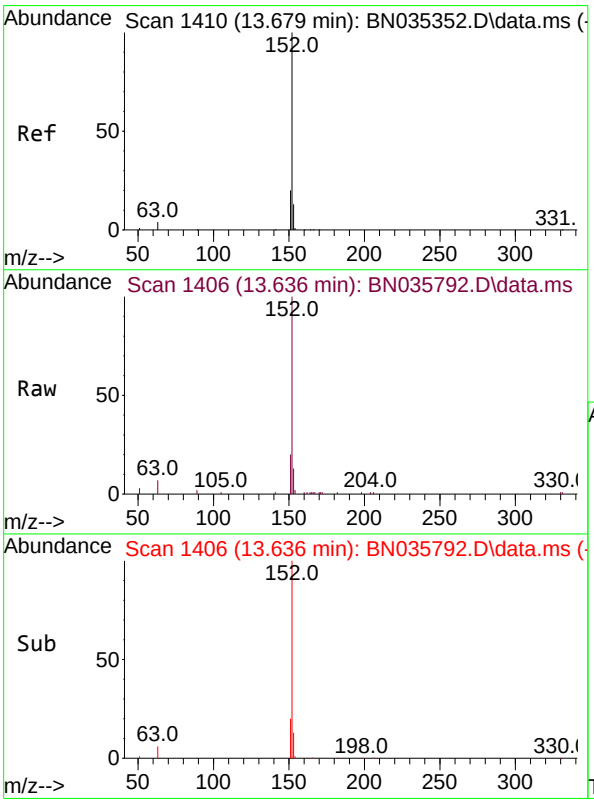
Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.4
170	23.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

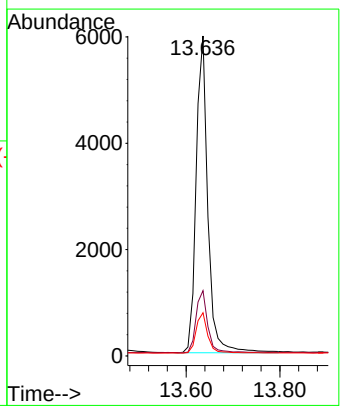
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

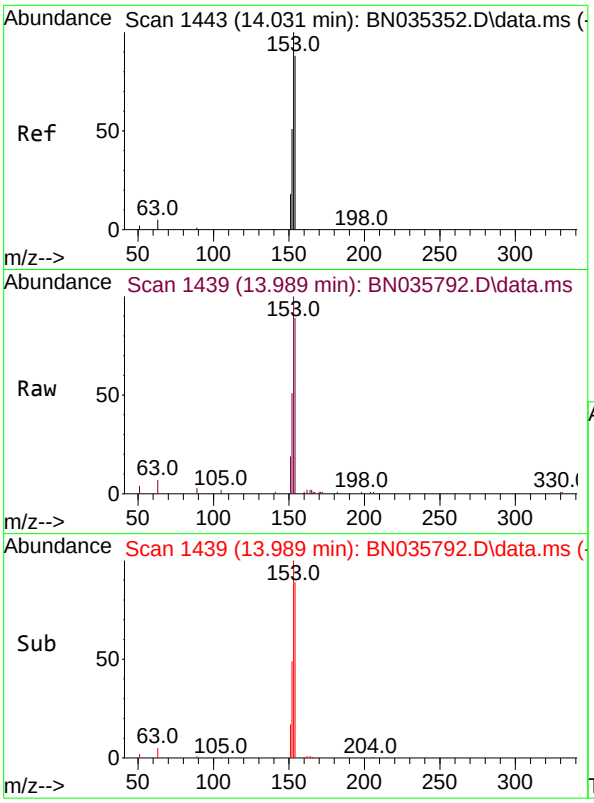


#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 10309

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	12.9	10.4	15.6

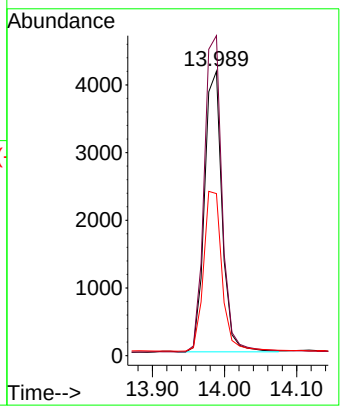




#17
Acenaphthene
Concen: 0.382 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:154 Resp: 704

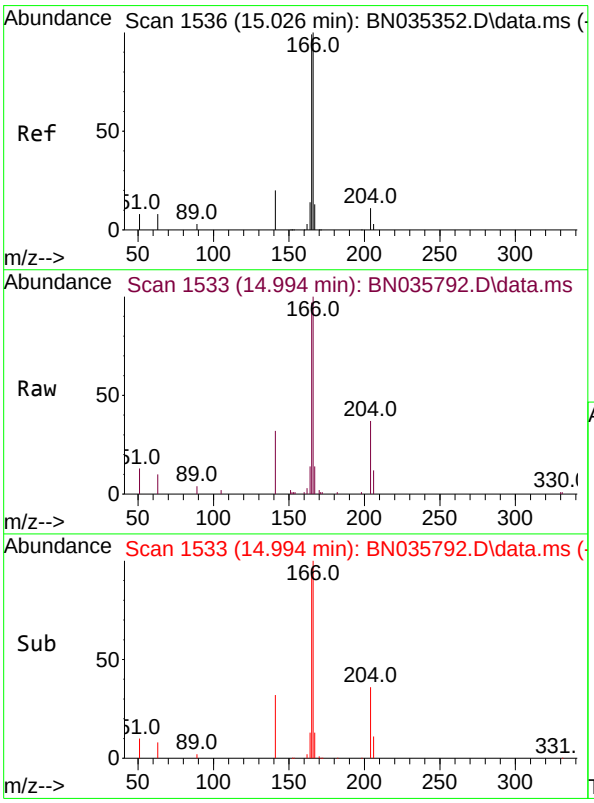
Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	60.1	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

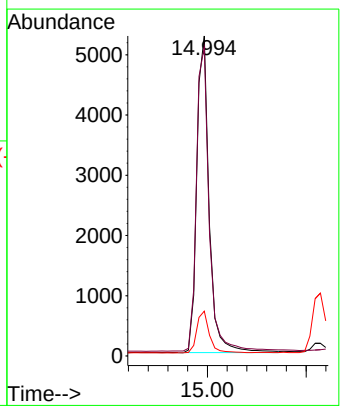
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

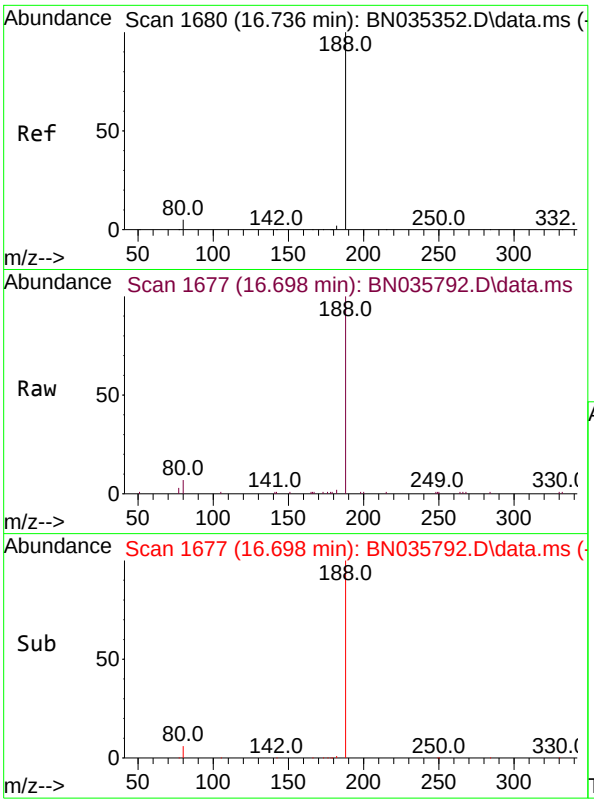


#18
Fluorene
Concen: 0.346 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:166 Resp: 9147

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	13.4	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

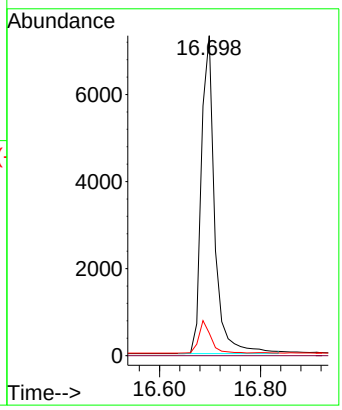
Tgt Ion:188 Resp: 1344

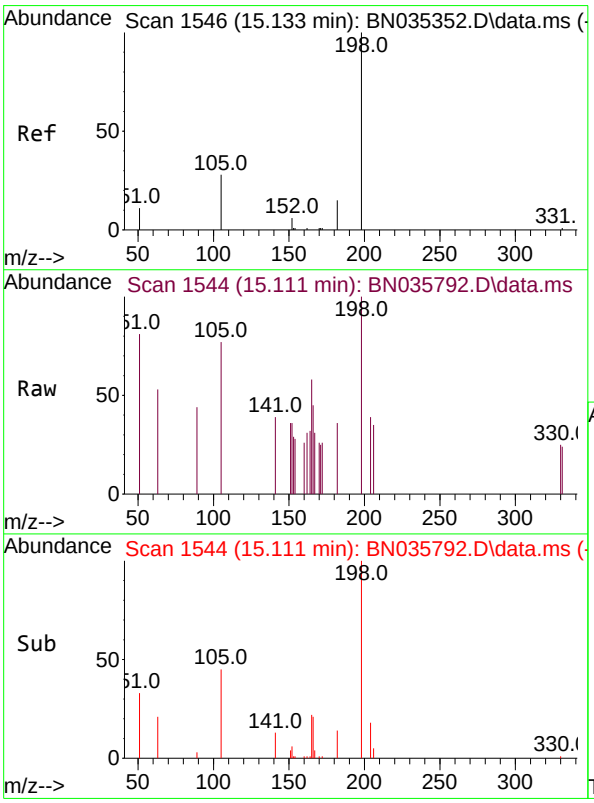
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.1	4.6	6.8#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

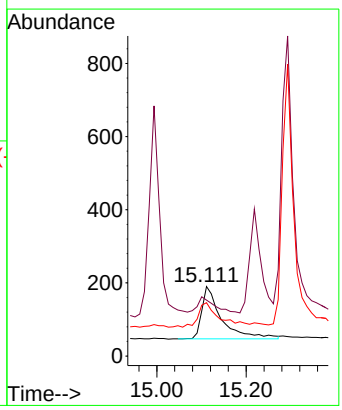


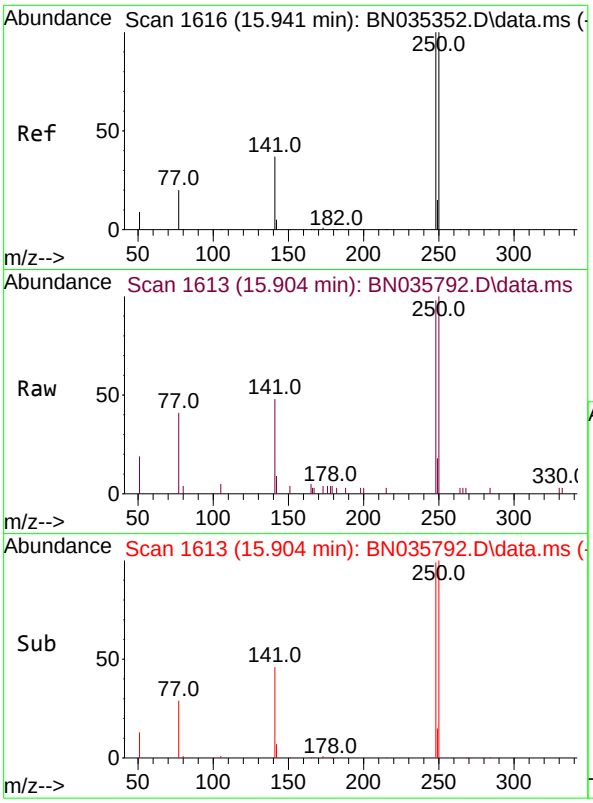


#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:198 Resp: 441

Ion	Ratio	Lower	Upper
198	100		
51	80.5	46.5	69.7#
105	76.8	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

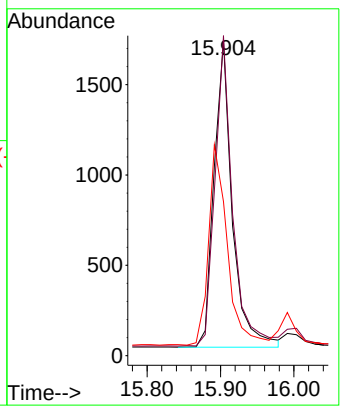
Tgt Ion:248 Resp: 292

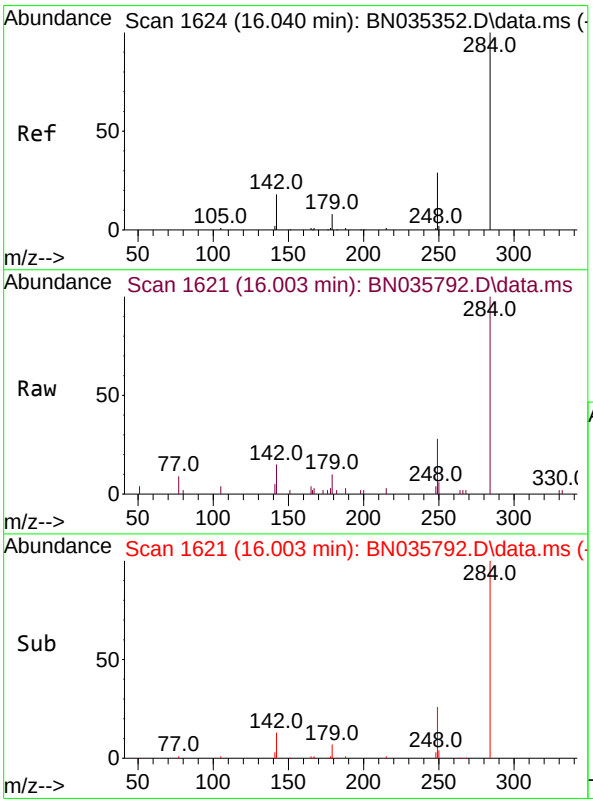
Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	48.9	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

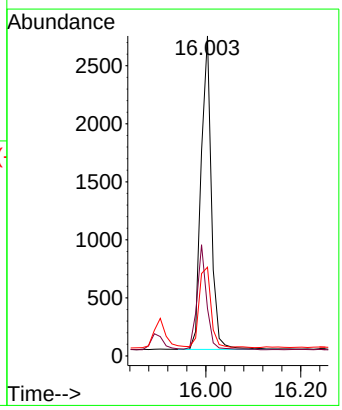


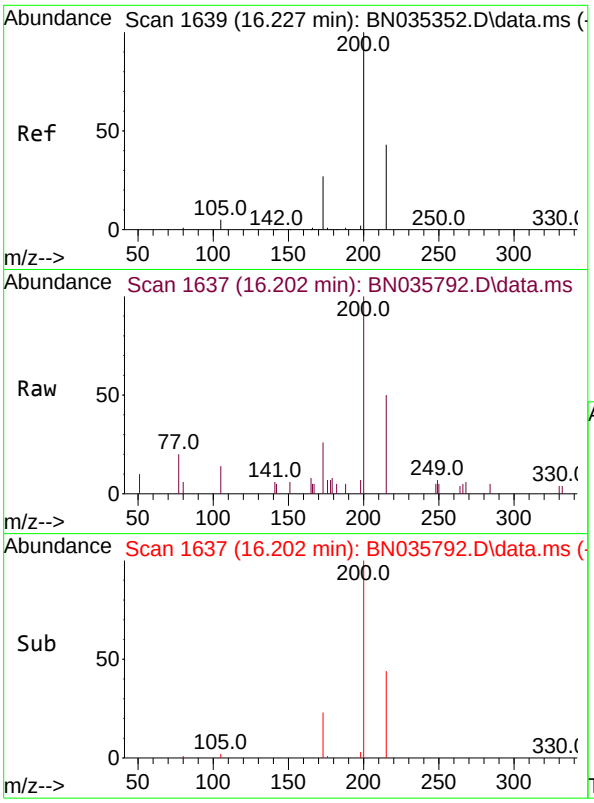


#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:284 Resp: 4080

Ion	Ratio	Lower	Upper
284	100		
142	31.0	26.7	40.1
249	30.0	24.6	36.8





#23
Atrazine
Concen: 0.366 ng
RT: 16.202 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

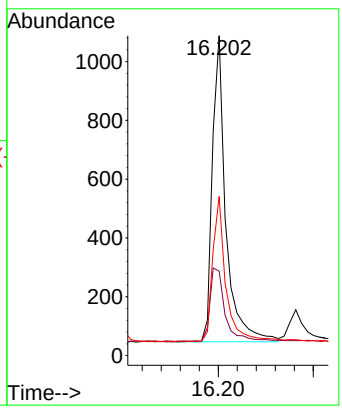
Tgt Ion:200 Resp: 205(

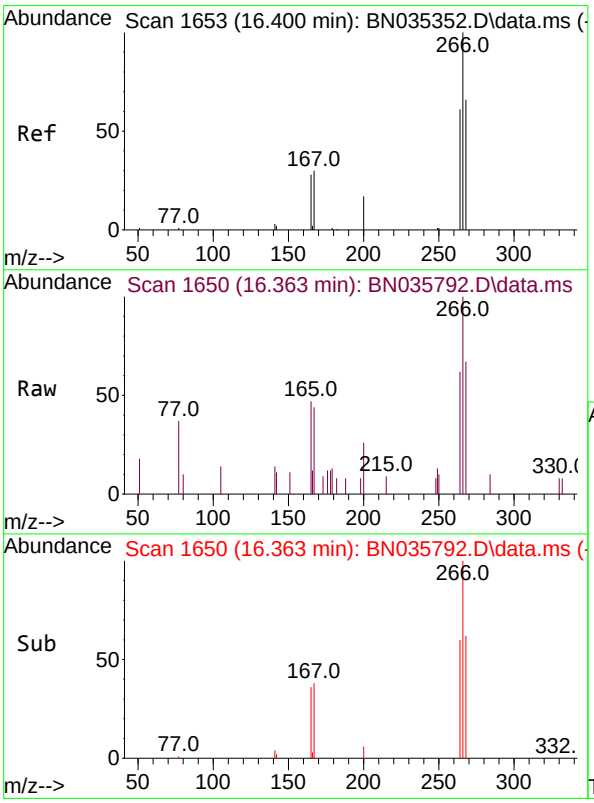
Ion	Ratio	Lower	Upper
200	100		
173	26.4	24.1	36.1
215	49.7	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

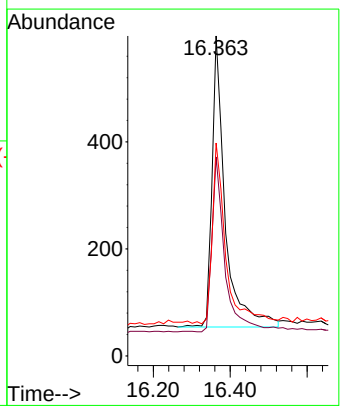


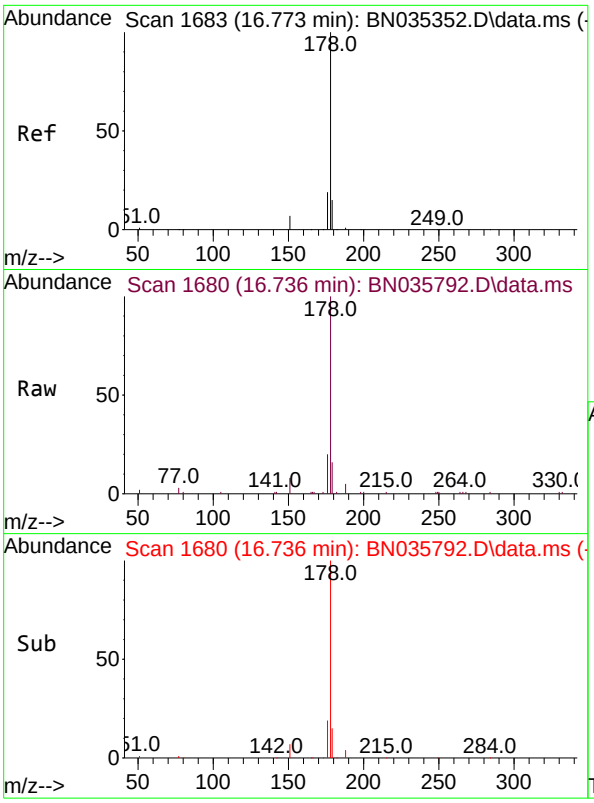


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:266 Resp: 1288

Ion	Ratio	Lower	Upper
266	100		
264	59.5	42.3	63.5
268	62.8	43.3	64.9

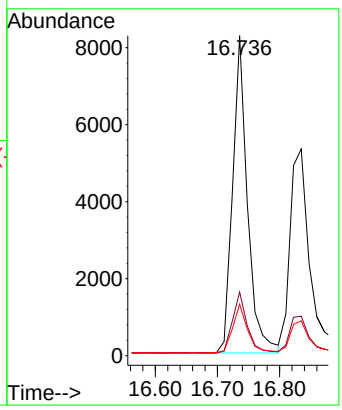




#25
Phenanthrene
Concen: 0.370 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 1365

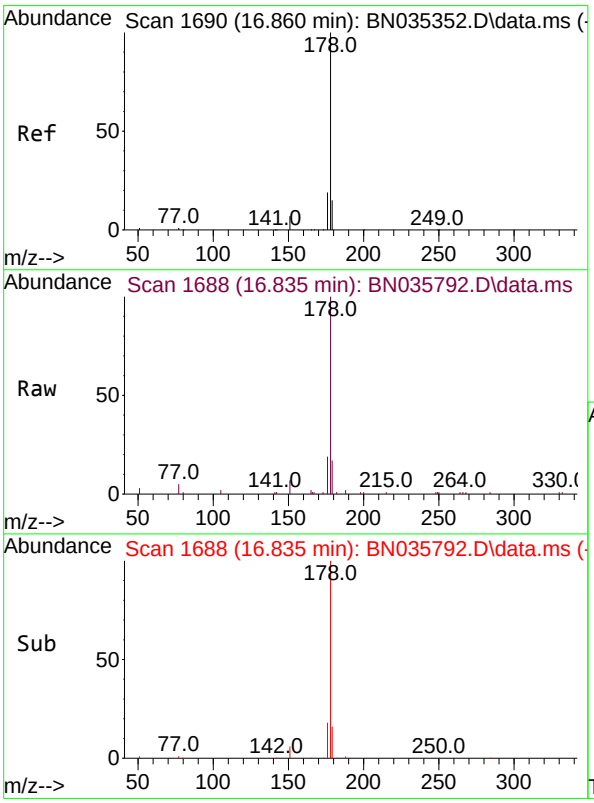
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

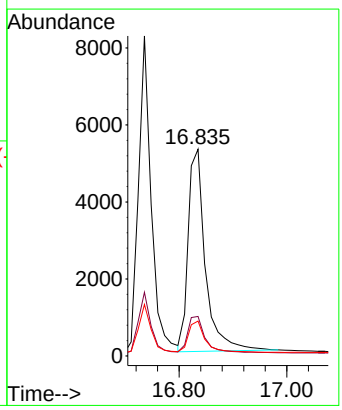
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

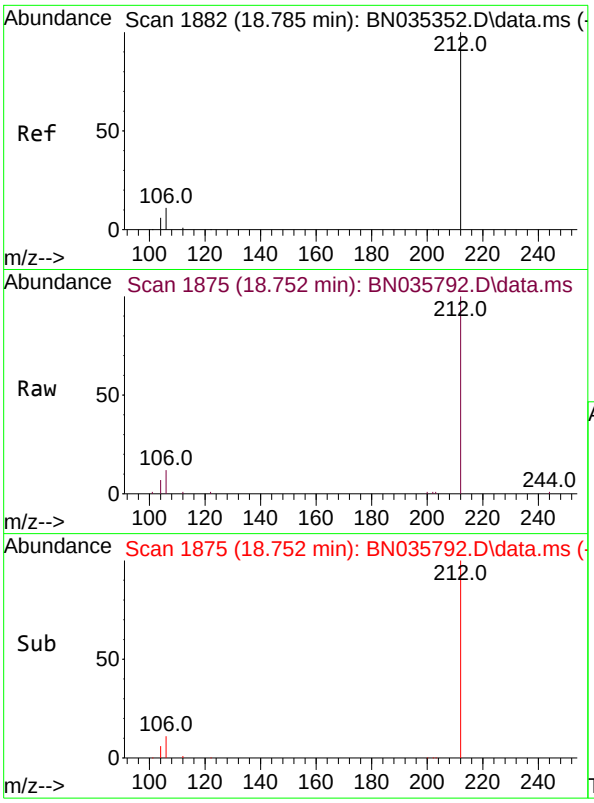


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 11693

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.4	12.6	18.8

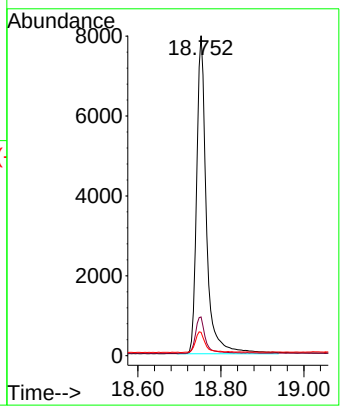




#27
Fluoranthene-d10
Concen: 0.343 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:212 Resp: 1306

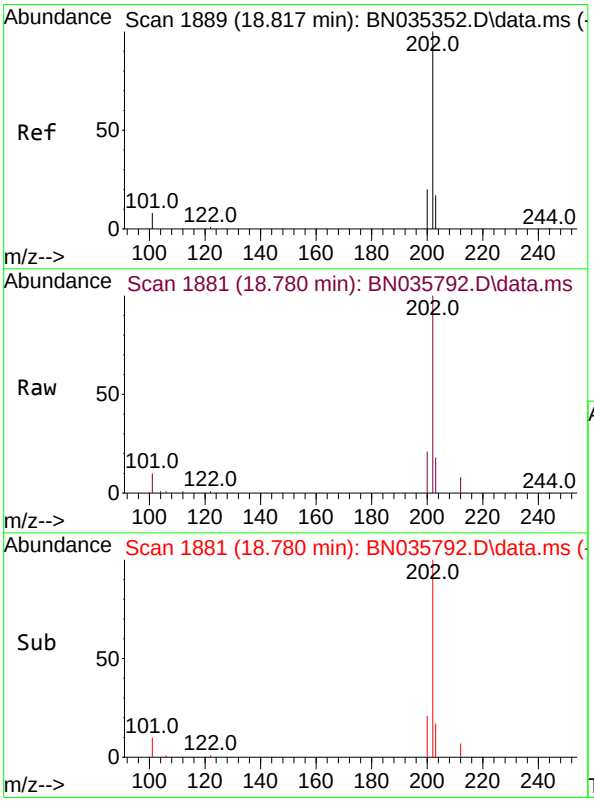
Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

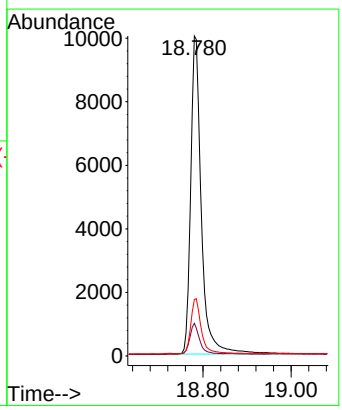
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

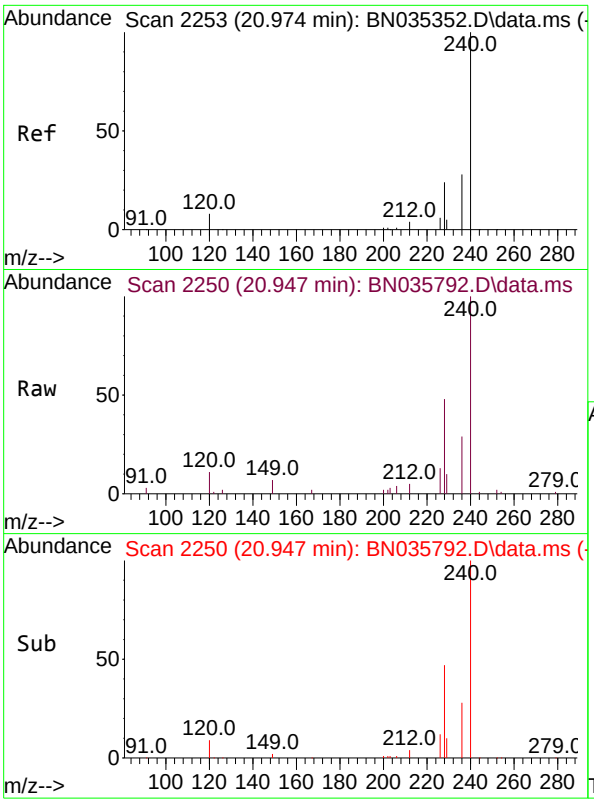


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 16797

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	16.9	13.7	20.5

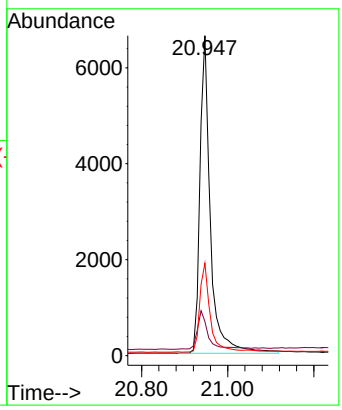




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:240 Resp: 1117

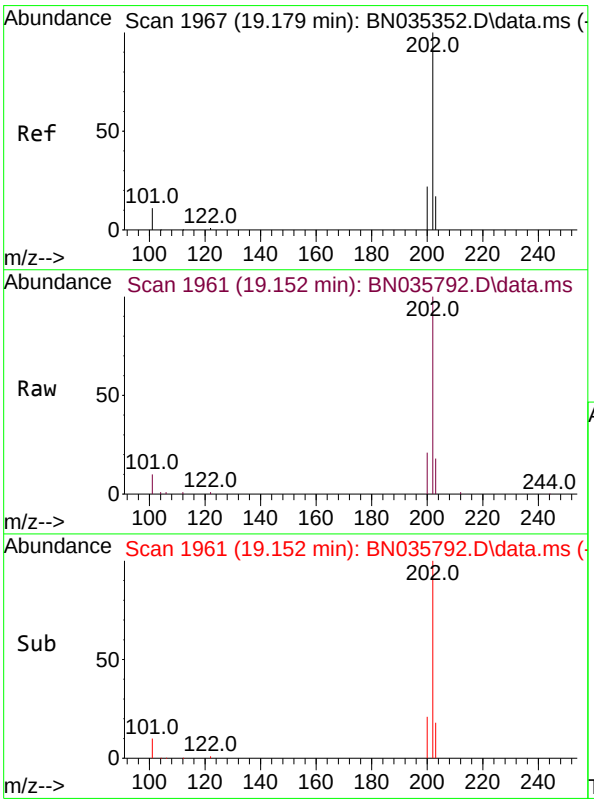
Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.9	11.9
236	28.9	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

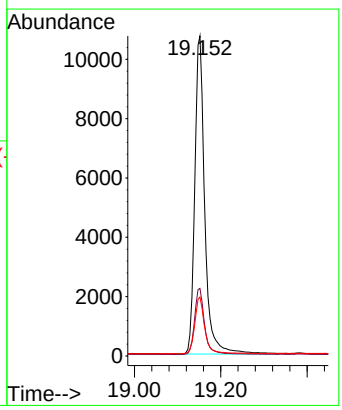
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

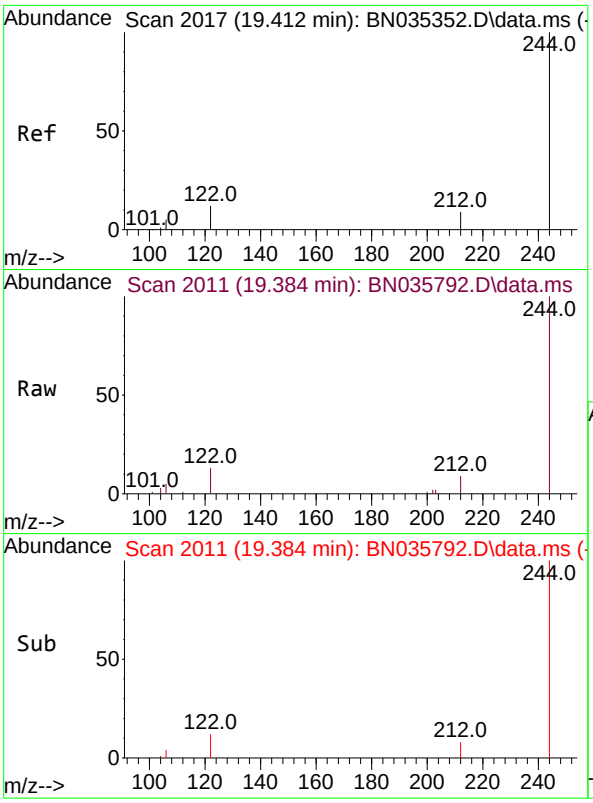


#30
Pyrene
Concen: 0.416 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 17165

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5

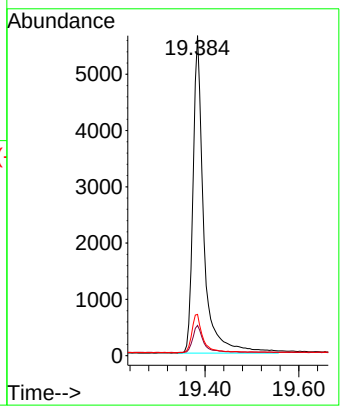




#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:244 Resp: 900

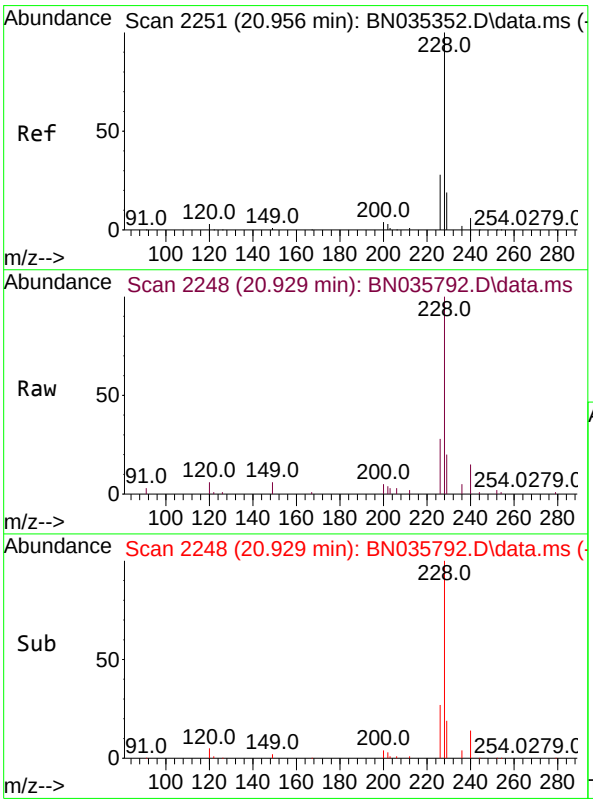
Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

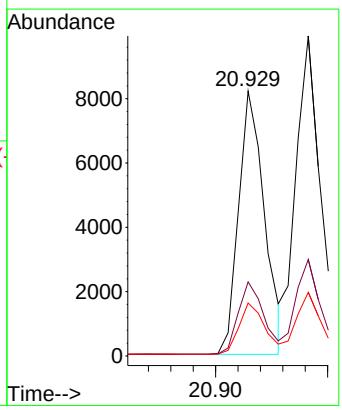
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

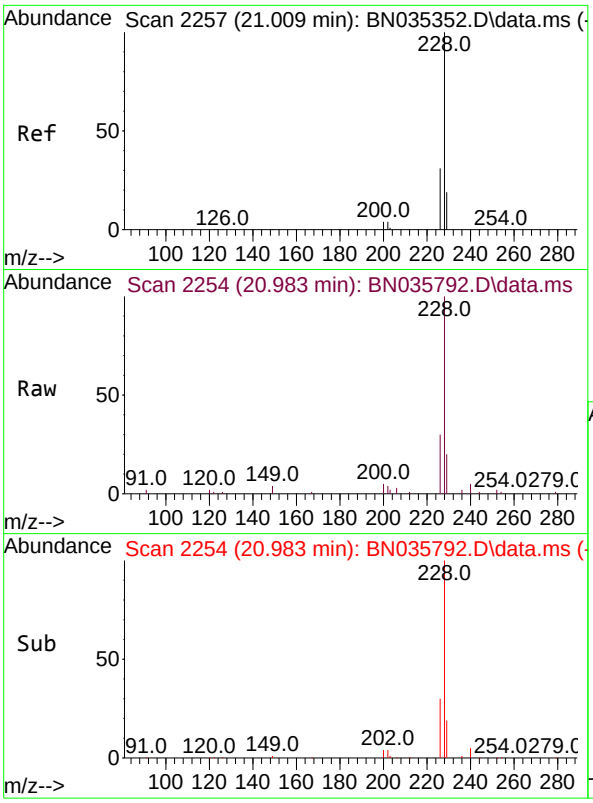


#32
Benzo(a)anthracene
Concen: 0.336 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:228 Resp: 13119

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8

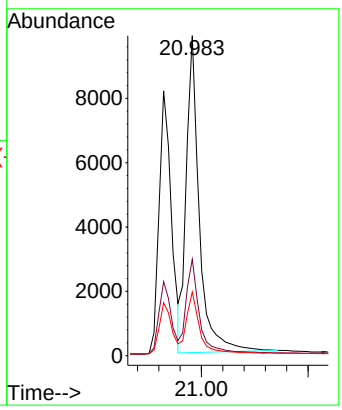




#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:228 Resp: 1671

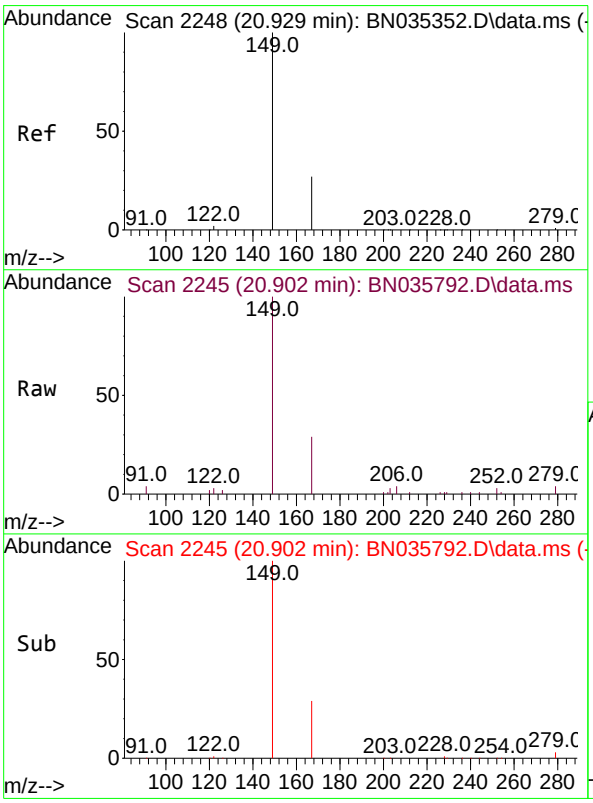
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

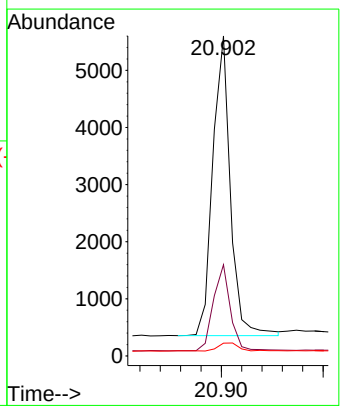
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

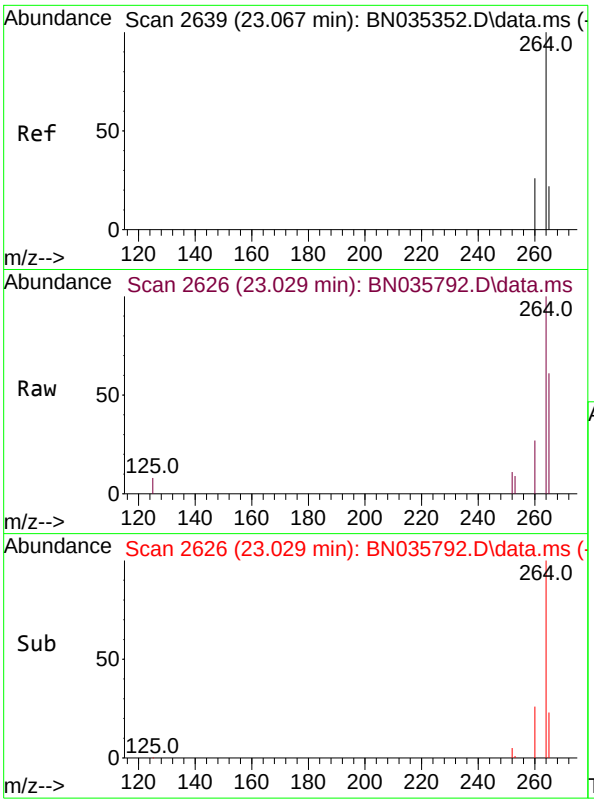


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:149 Resp: 6294

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1

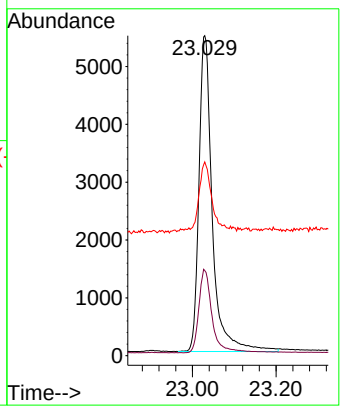




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:264 Resp: 1212

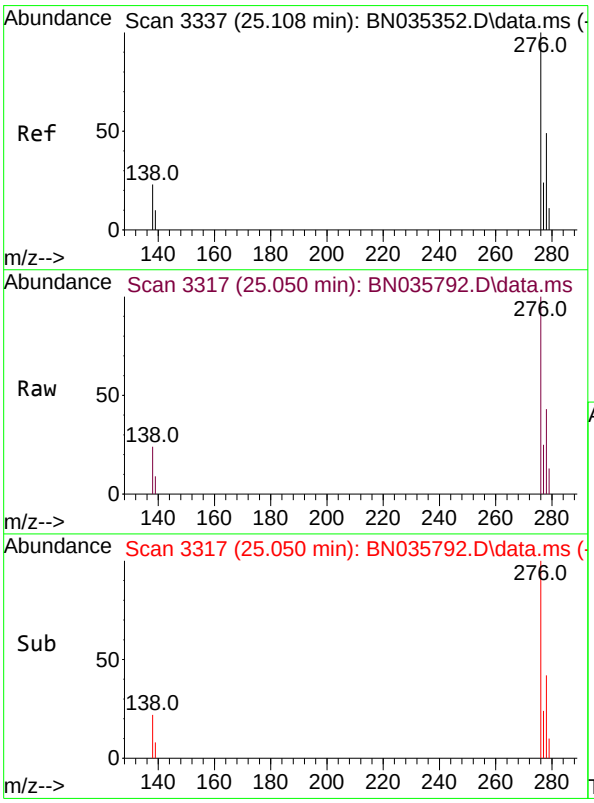
Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	60.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

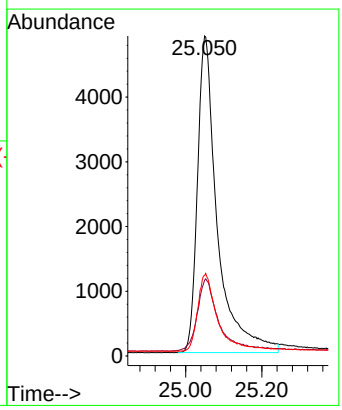
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

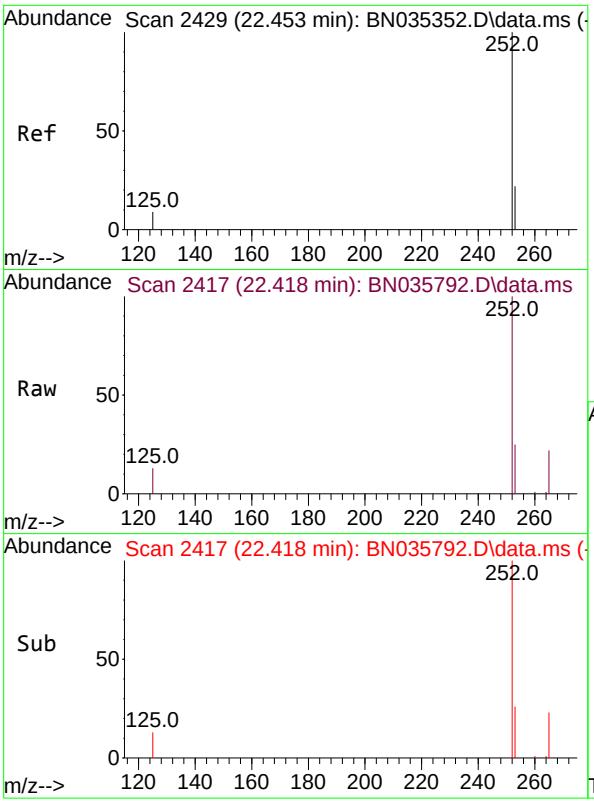


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 17740

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.2	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.539 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

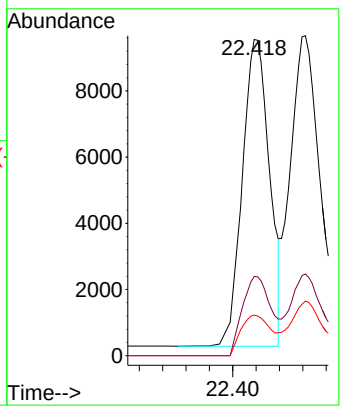
Tgt Ion:252 Resp: 2390

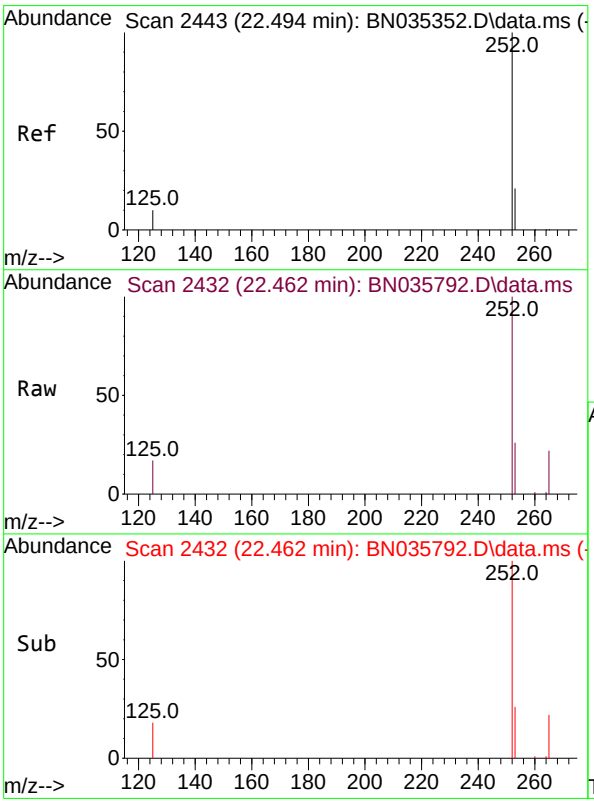
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	12.8	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

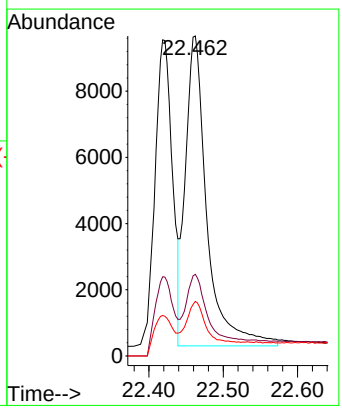


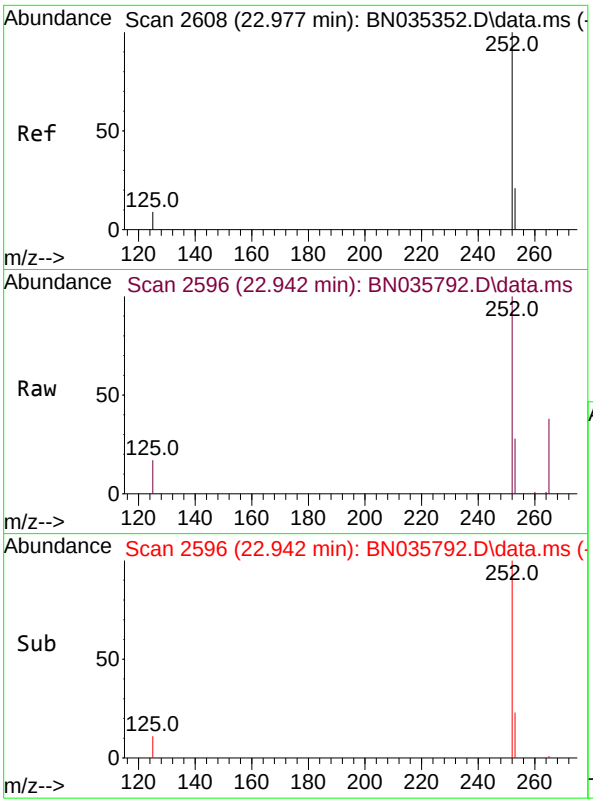


#38
Benzo(k)fluoranthene
Concen: 0.433 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:252 Resp: 18914

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.5	29.3
125	17.0	10.2	15.4#

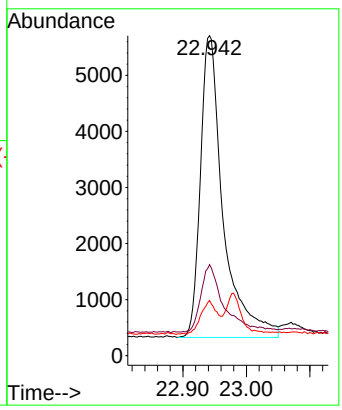




#39
Benzo(a)pyrene
Concen: 0.366 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:252 Resp: 1337

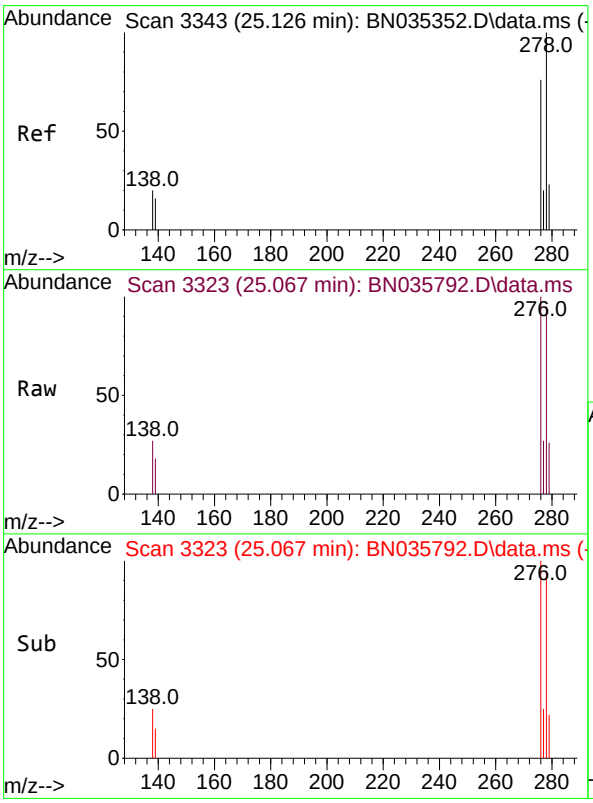
Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	17.2	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

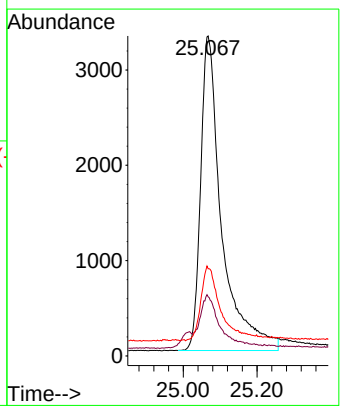
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

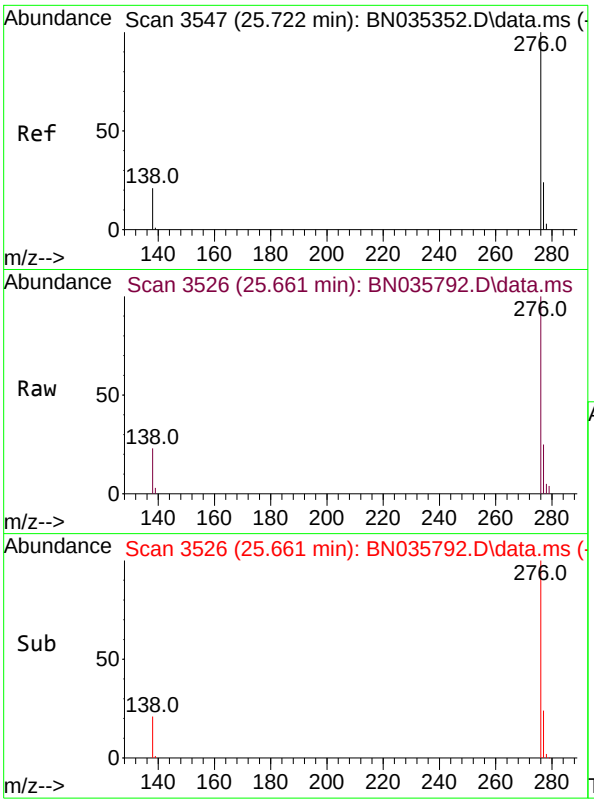


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:278 Resp: 13081

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.2	21.4
279	27.2	20.5	30.7

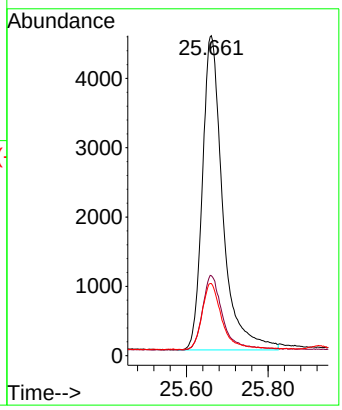




#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 1572

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.9	29.9
138	22.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Sample Results: **BN035792.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	227#	0.00
2		1,4-Dioxane	0.382	0.383	-0.3	231#	0.00
3		n-Nitrosodimethylamine	0.319	0.312	2.2	217#	0.00
4	S	2-Fluorophenol	1.001	0.954	4.7	213#	0.00
5	S	Phenol-d6	1.204	1.061	11.9	202#	-0.01
6		bis(2-Chloroethyl)ether	1.012	0.886	12.5	203#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	216#	-0.01
8	S	Nitrobenzene-d5	0.244	0.295	-20.9	272#	-0.01
9		Naphthalene	1.055	1.010	4.3	208#	-0.01
10		Hexachlorobutadiene	0.243	0.264	-8.6	230#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.557	11.0	195#	-0.01
12		2-Methylnaphthalene	0.755	0.646	14.4	189#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	174#	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.220	22.5	150	-0.01
15	S	2-Fluorobiphenyl	1.512	1.518	-0.4	175#	-0.01
16		Acenaphthylene	1.680	1.557	7.3	170#	-0.01
17		Acenaphthene	1.115	1.064	4.6	171#	-0.01
18		Fluorene	1.596	1.381	13.5	156#	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	142	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.033	15.4	131	-0.01
21		4-Bromophenyl-phenylether	0.234	0.218	6.8	136	-0.01
22		Hexachlorobenzene	0.275	0.303	-10.2	158#	-0.01
23		Atrazine	0.167	0.152	9.0	140	0.00
24		Pentachlorophenol	0.120	0.096	20.0	142	-0.01
25		Phenanthrene	1.099	1.016	7.6	135	-0.01
26		Anthracene	0.994	0.870	12.5	131	0.00
27	SURR	Fluoranthene-d10	1.134	0.972	14.3	128	0.00
28		Fluoranthene	1.481	1.249	15.7	125	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30		Pyrene	1.477	1.536	-4.0	122	0.00
31	S	Terphenyl-d14	0.789	0.806	-2.2	120	0.00
32		Benzo(a)anthracene	1.399	1.174	16.1	102	0.00
33		Chrysene	1.443	1.496	-3.7	122	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.563	-1.8	128	0.00
35	I	Perylene-d12	1.000	1.000	0.0	112	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.463	6.5	107	-0.02
37		Benzo(b)fluoranthene	1.463	1.972	-34.8#	168#	-0.01
38		Benzo(k)fluoranthene	1.440	1.560	-8.3	124	0.00
39	C	Benzo(a)pyrene	1.205	1.103	8.5	108	0.00
40		Dibenzo(a,h)anthracene	1.234	1.079	12.6	101	-0.01
41		Benzo(g,h,i)perylene	1.289	1.297	-0.6	116	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035792.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	227	0.00
2		1,4-Dioxane	0.400	0.400	0.0	231	0.00
3		n-Nitrosodimethylamine	0.400	0.391	2.3	217	0.00
4	S	2-Fluorophenol	0.400	0.381	4.8	213	0.00
5	S	Phenol-d6	0.400	0.352	12.0	202	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.350	12.5	203	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	216	-0.01
8	S	Nitrobenzene-d5	0.400	0.484	-21.0	272	-0.01
9		Naphthalene	0.400	0.383	4.3	208	-0.01
10		Hexachlorobutadiene	0.400	0.433	-8.2	230	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.356	11.0	195	-0.01
12		2-Methylnaphthalene	0.400	0.342	14.5	189	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	174	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.311	22.3	150	-0.01
15	S	2-Fluorobiphenyl	0.400	0.401	-0.3	175	-0.01
16		Acenaphthylene	0.400	0.371	7.3	170	-0.01
17		Acenaphthene	0.400	0.382	4.5	171	-0.01
18		Fluorene	0.400	0.346	13.5	156	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	142	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	131	-0.01
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	136	-0.01
22		Hexachlorobenzene	0.400	0.442	-10.5	158	-0.01
23		Atrazine	0.400	0.366	8.5	140	0.00
24		Pentachlorophenol	0.400	0.321	19.8	142	-0.01
25		Phenanthrene	0.400	0.370	7.5	135	-0.01
26		Anthracene	0.400	0.350	12.5	131	0.00
27	SURR	Fluoranthene-d10	0.400	0.343	14.2	128	0.00
28		Fluoranthene	0.400	0.337	15.8	125	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30		Pyrene	0.400	0.416	-4.0	122	0.00
31	S	Terphenyl-d14	0.400	0.409	-2.2	120	0.00
32		Benzo(a)anthracene	0.400	0.336	16.0	102	0.00
33		Chrysene	0.400	0.415	-3.7	122	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.408	-2.0	128	0.00
35	I	Perylene-d12	0.400	0.400	0.0	112	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	107	-0.02
37		Benzo(b)fluoranthene	0.400	0.539	-34.8#	168	-0.01
38		Benzo(k)fluoranthene	0.400	0.433	-8.2	124	0.00
39	C	Benzo(a)pyrene	0.400	0.366	8.5	108	0.00
40		Dibenzo(a,h)anthracene	0.400	0.350	12.5	101	-0.01
41		Benzo(g,h,i)perylene	0.400	0.402	-0.5	116	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BN035794.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 22:16

Lab File ID: BN035794.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.540		-13.7	20.0
Fluoranthene-d10	1.134	0.950		-16.2	20.0
2-Fluorophenol	1.001	0.924		-7.7	20.0
Phenol-d6	1.204	1.016		-15.6	20.0
Nitrobenzene-d5	0.244	0.278		13.9	20.0
2-Fluorobiphenyl	1.512	1.529		1.1	20.0
2,4,6-Tribromophenol	0.284	0.208		-26.8	20.0
Terphenyl-d14	0.789	0.785		-0.5	20.0
1,4-Dioxane	0.382	0.419		9.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Sample Results: **BN035794.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3234	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	7877	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	4482	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	8845	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7163	0.400	ng		# 0.00
35) Perylene-d12	23.032	264	7277	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	2987	0.369	ng		0.00
5) Phenol-d6	6.477	99	3287	0.338	ng		-0.01
8) Nitrobenzene-d5	8.397	82	2193m	0.456	ng		-0.01
11) 2-Methylnaphthalene-d10	11.615	152	4254	0.345	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	932	0.293	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	6854	0.405	ng		0.00
27) Fluoranthene-d10	18.752	212	8405	0.335	ng		0.00
31) Terphenyl-d14	19.388	244	5620	0.398	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1355	0.438	ng		100
3) n-Nitrosodimethylamine	3.270	42	1052	0.409	ng	#	95
6) bis(2-Chloroethyl)ether	6.715	93	2845	0.348	ng		97
9) Naphthalene	10.052	128	7865	0.379	ng		100
10) Hexachlorobutadiene	10.351	225	2082	0.434	ng	#	100
12) 2-Methylnaphthalene	11.692	142	5023	0.338	ng		99
16) Acenaphthylene	13.636	152	6992	0.372	ng		99
17) Acenaphthene	13.989	154	4714	0.377	ng		99
18) Fluorene	14.993	166	6004	0.336	ng		100
20) 4,6-Dinitro-2-methylph...	15.132	198	221	0.254	ng	#	12
21) 4-Bromophenyl-phenylether	15.904	248	1918	0.371	ng	#	86
22) Hexachlorobenzene	16.003	284	2804	0.462	ng		97
23) Atrazine	16.202	200	1338	0.363	ng		96
24) Pentachlorophenol	16.375	266	783	0.296	ng		87
25) Phenanthrene	16.735	178	8831	0.363	ng		100
26) Anthracene	16.835	178	7665	0.349	ng		99
28) Fluoranthene	18.785	202	11004	0.336	ng		100
30) Pyrene	19.152	202	11228	0.425	ng		99
32) Benzo(a)anthracene	20.929	228	7716	0.308	ng		100
33) Chrysene	20.983	228	11129	0.431	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4068	0.411	ng		99
36) Indeno(1,2,3-cd)pyrene	25.055	276	10012	0.352	ng		98
37) Benzo(b)fluoranthene	22.421	252	14187	0.533	ng	#	95
38) Benzo(k)fluoranthene	22.462	252	10893m	0.416	ng		
39) Benzo(a)pyrene	22.944	252	8141	0.371	ng	#	87
40) Dibenzo(a,h)anthracene	25.076	278	7465	0.333	ng	#	91
41) Benzo(g,h,i)perylene	25.663	276	9418	0.401	ng		98

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

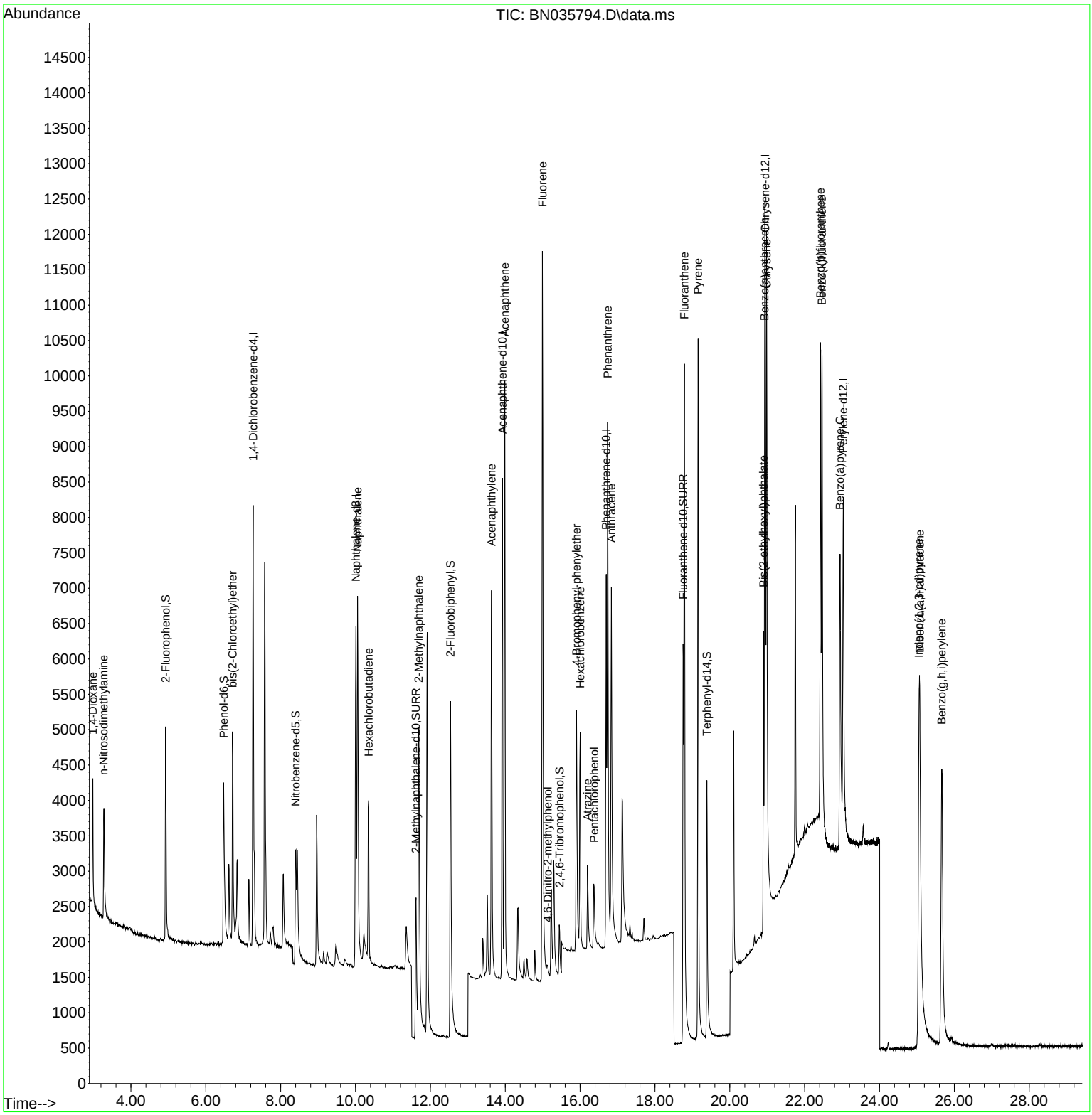
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

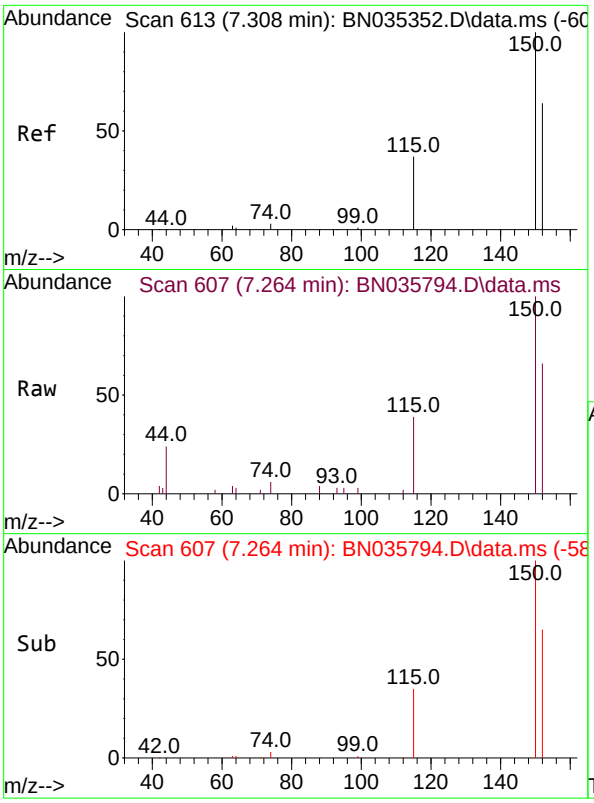
Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

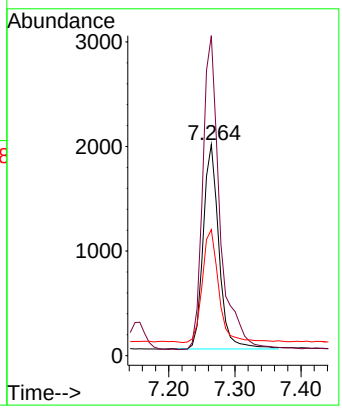




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:152 Resp: 323

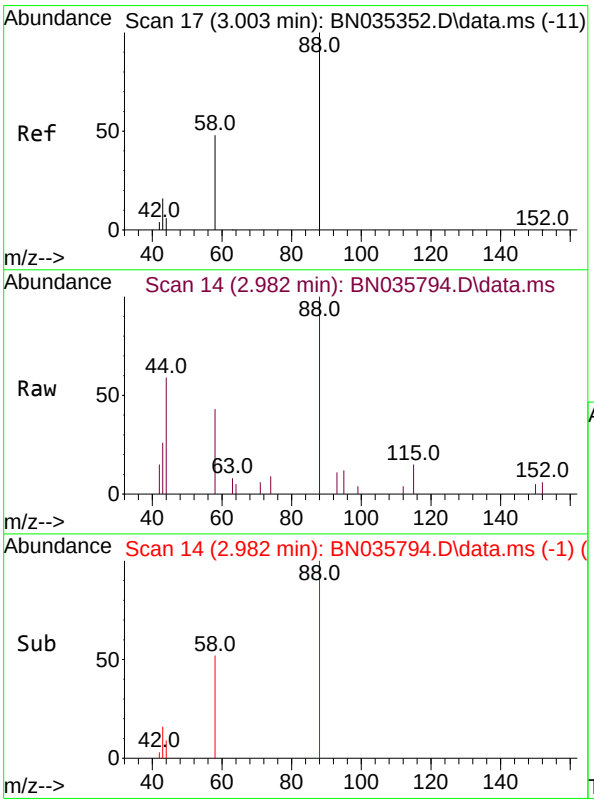
Ion	Ratio	Lower	Upper
152	100		
150	151.5	124.0	186.0
115	59.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

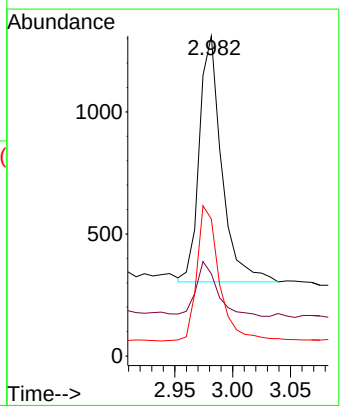
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

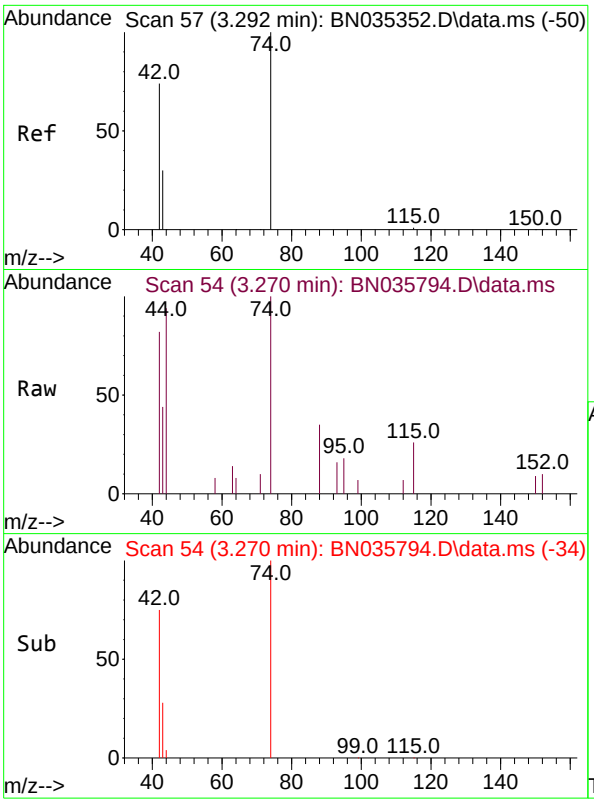


#2
1,4-Dioxane
Concen: 0.438 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 88 Resp: 1355

Ion	Ratio	Lower	Upper
88	100		
43	21.3	17.2	25.8
58	55.4	44.5	66.7

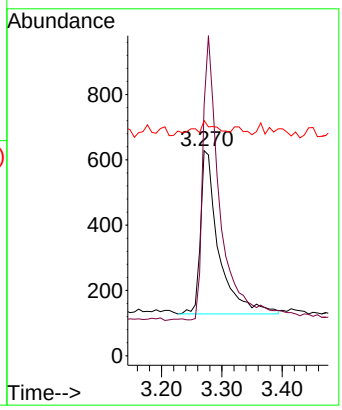




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 42 Resp: 105

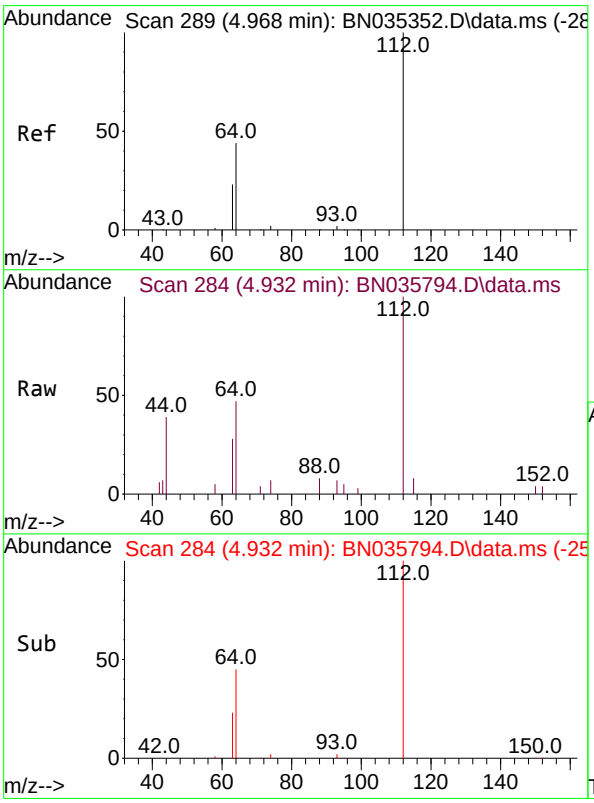
Ion	Ratio	Lower	Upper
42	100		
74	162.6	124.9	187.3
44	10.1	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

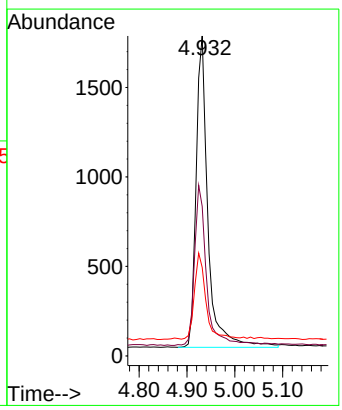
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

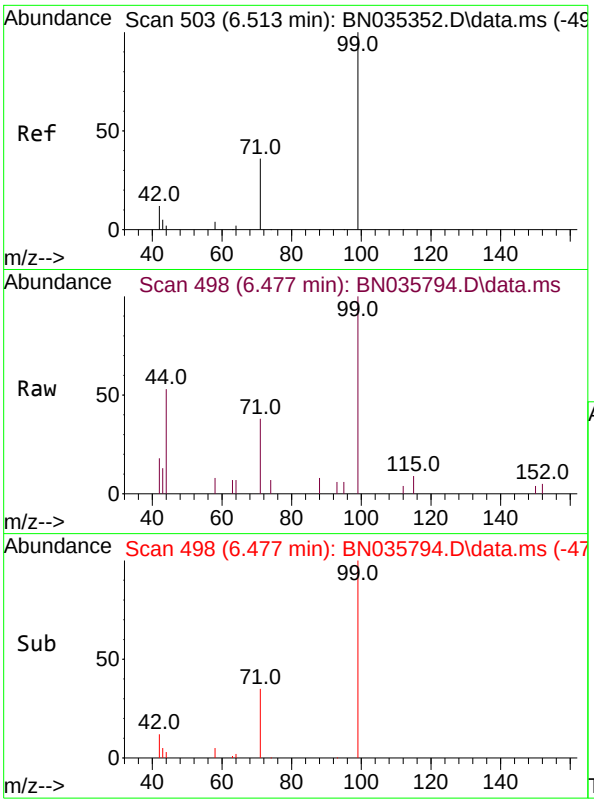


#4
2-Fluorophenol
Concen: 0.369 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:112 Resp: 2987

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	26.4	21.0	31.6

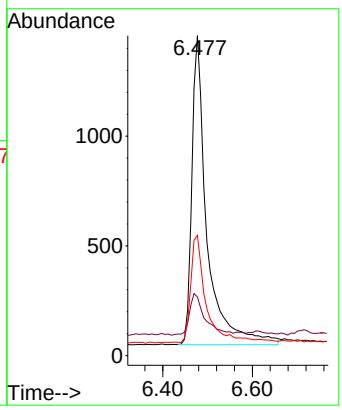




#5
Phenol-d6
Concen: 0.338 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 99 Resp: 328

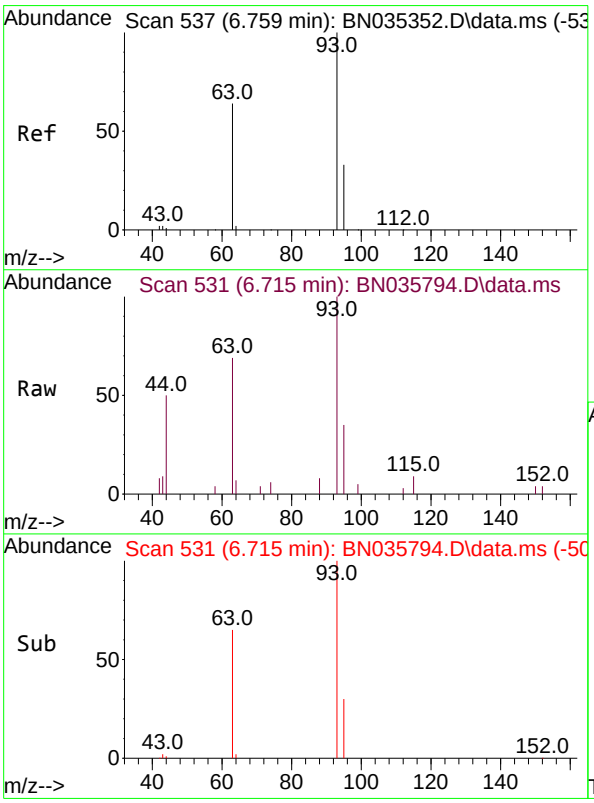
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	35.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

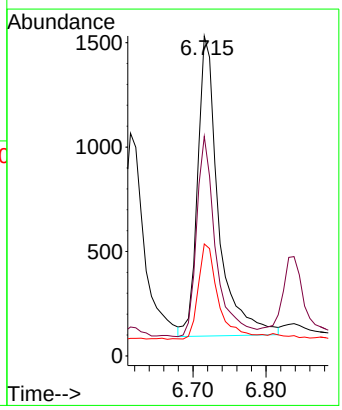
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

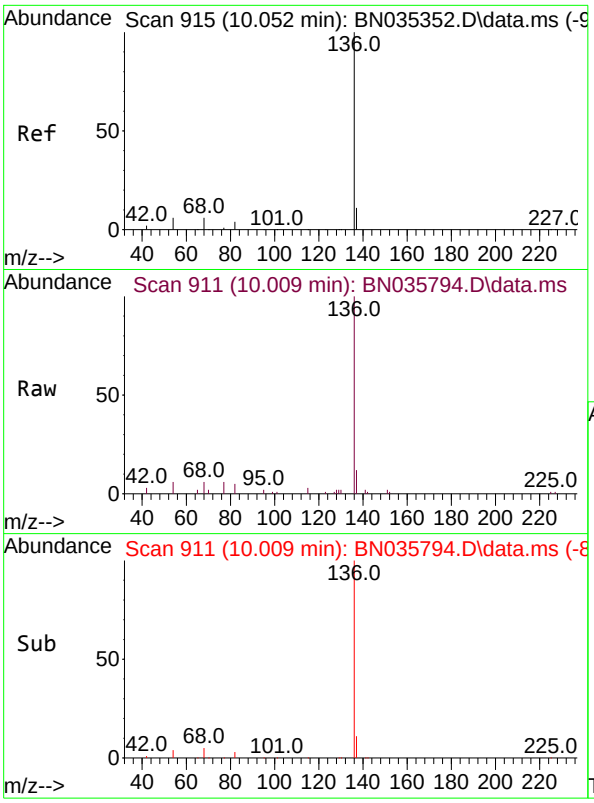


#6
bis(2-Chloroethyl)ether
Concen: 0.348 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 93 Resp: 2845

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	30.1	25.7	38.5

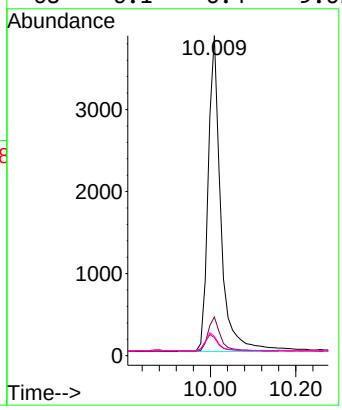




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:136 Resp: 787

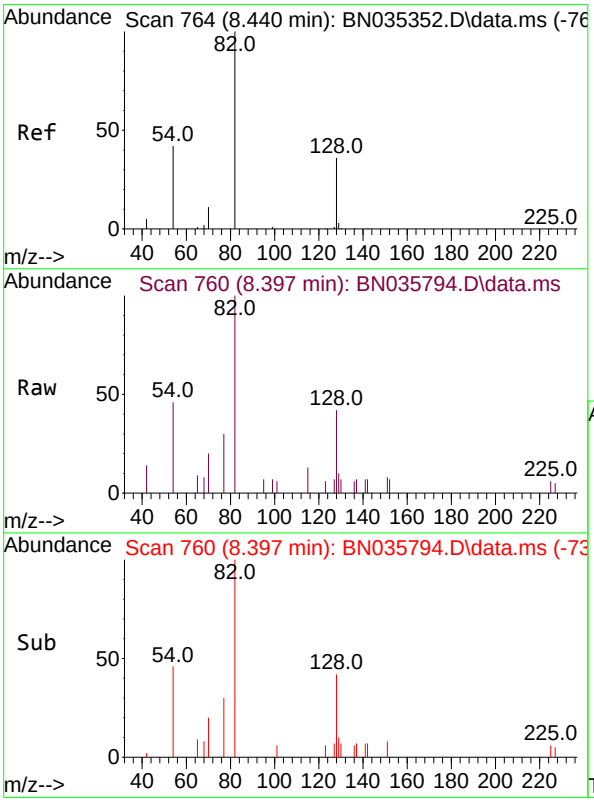
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	5.7	6.1	9.1#
68	6.1	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

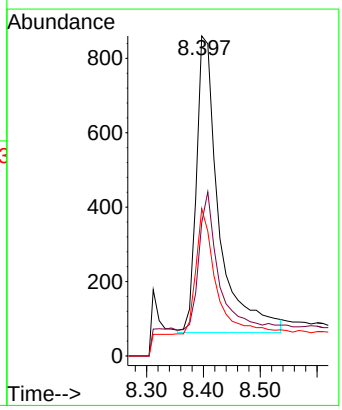
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

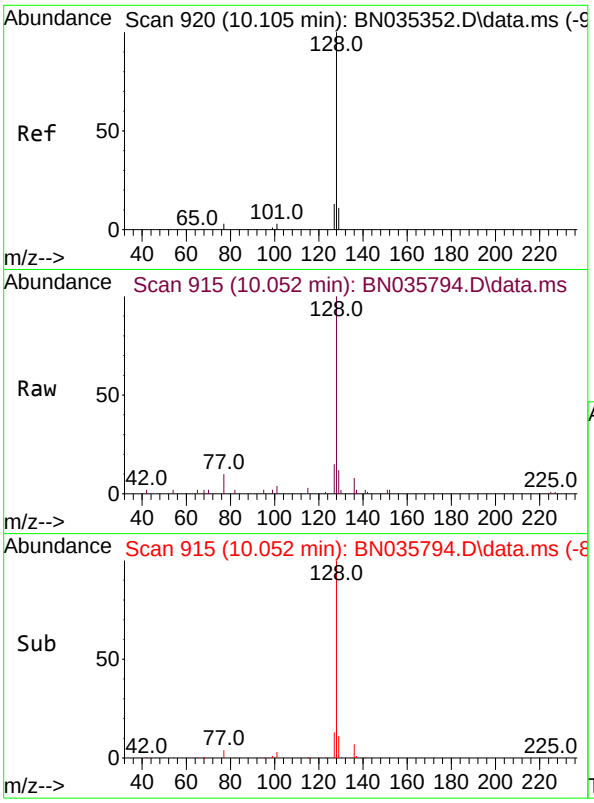


#8
Nitrobenzene-d5
Concen: 0.456 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 82 Resp: 2193

Ion	Ratio	Lower	Upper
82	100		
128	41.6	33.4	50.0
54	46.0	36.7	55.1





#9
Naphthalene
Concen: 0.379 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

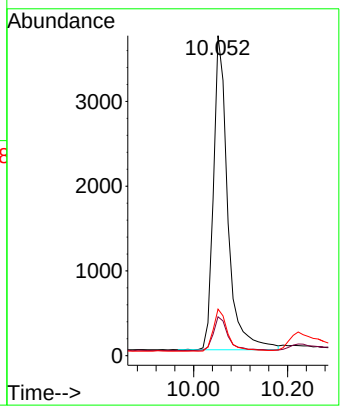
Tgt Ion:128 Resp: 786

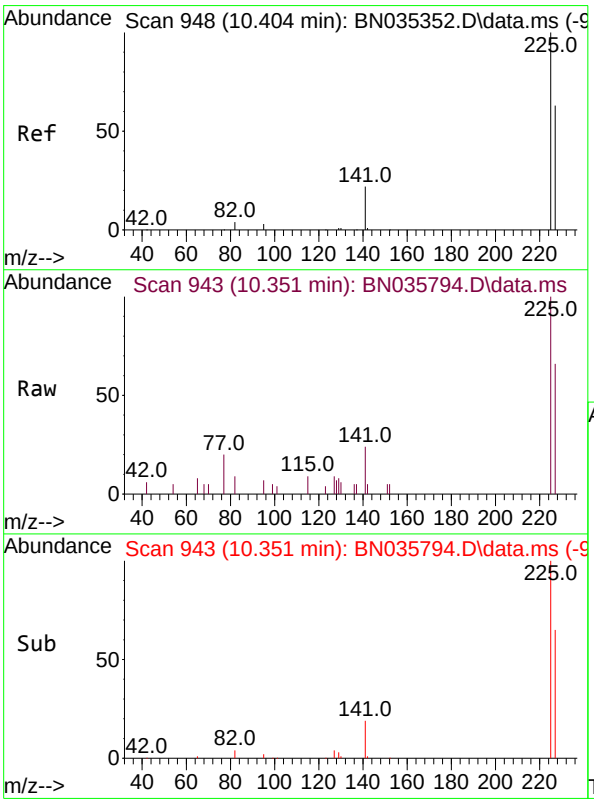
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

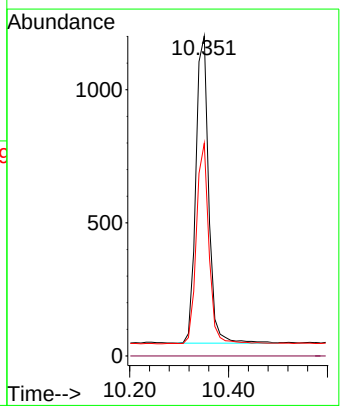


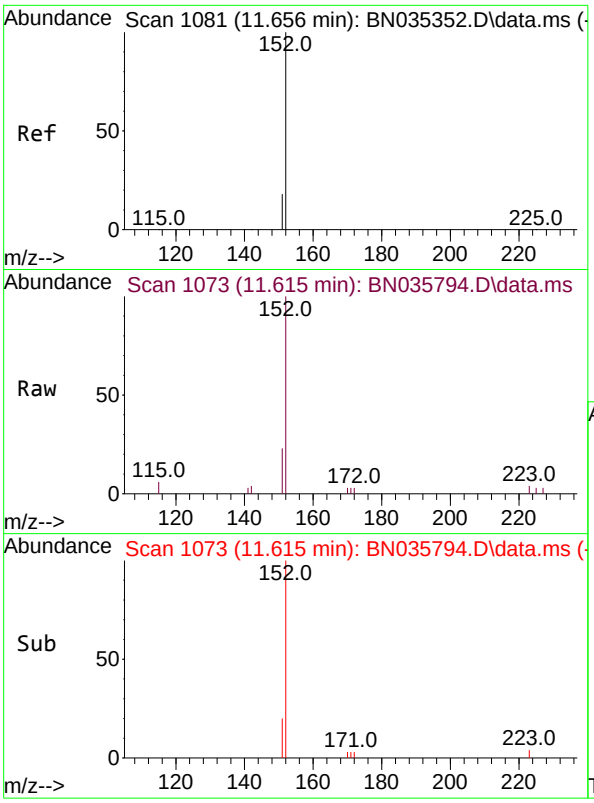


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:225 Resp: 2082

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.345 ng
RT: 11.615 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

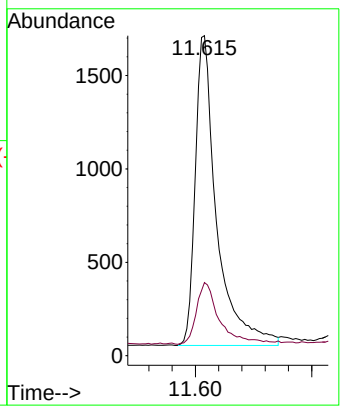
Tgt Ion:152 Resp: 425

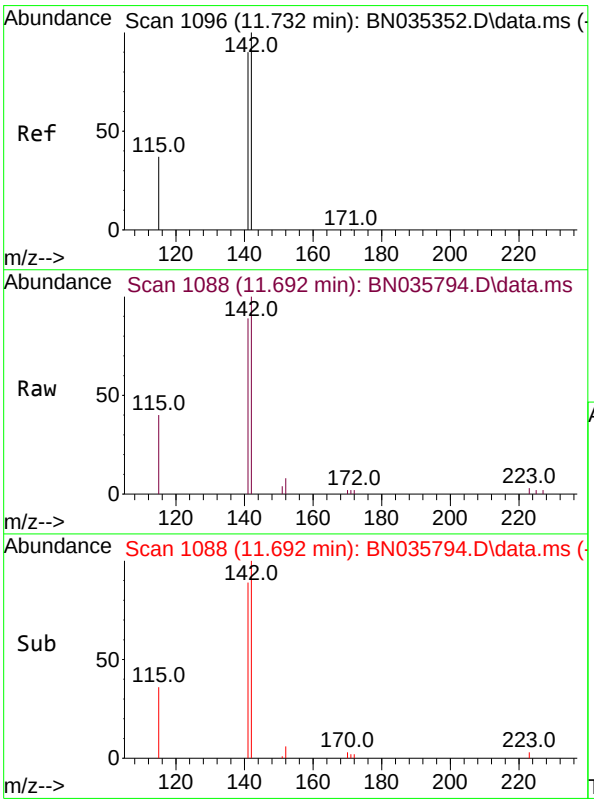
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

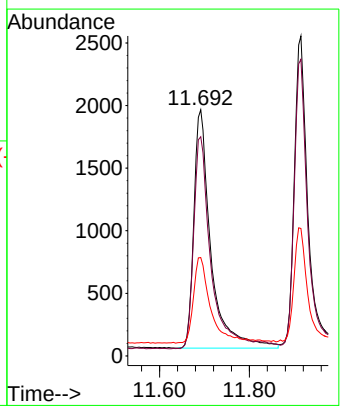


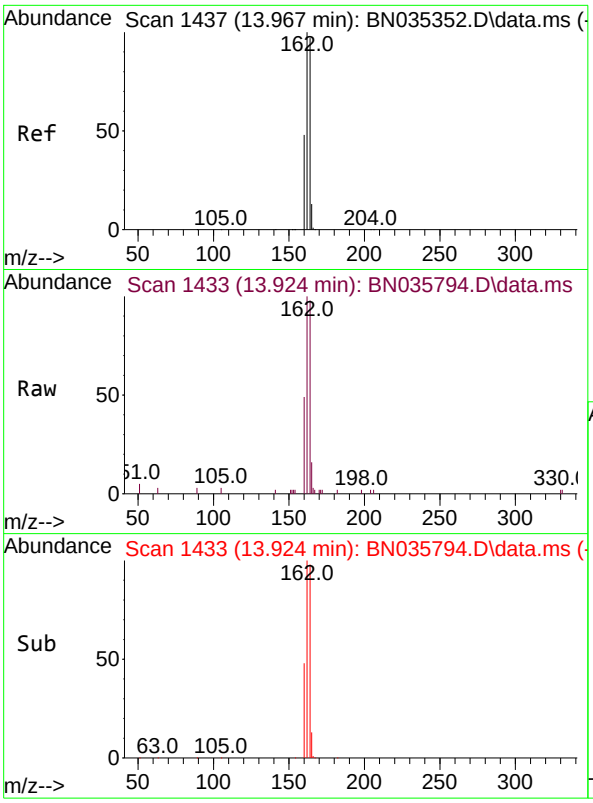


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:142 Resp: 5023

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	40.0	31.4	47.0

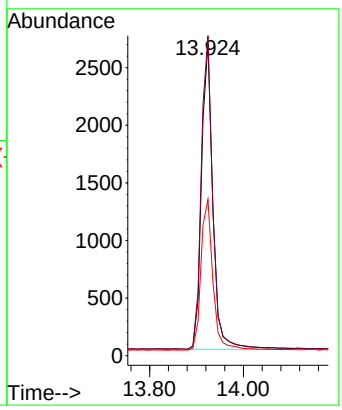




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:164 Resp: 448

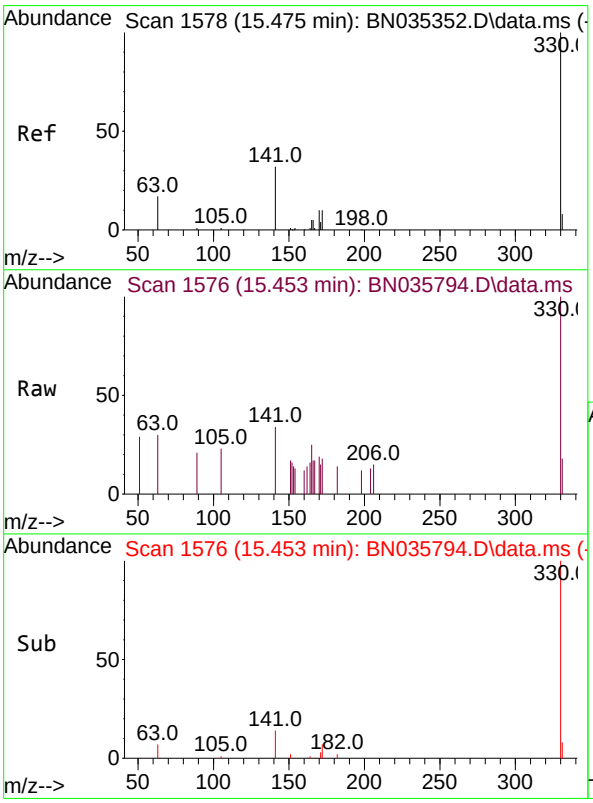
Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.2	123.2
160	50.0	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

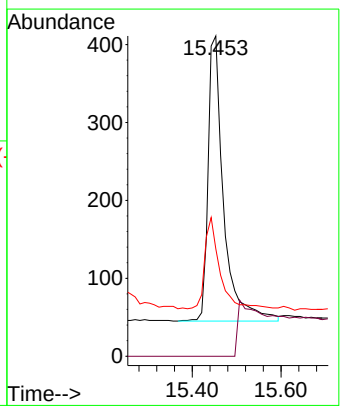
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

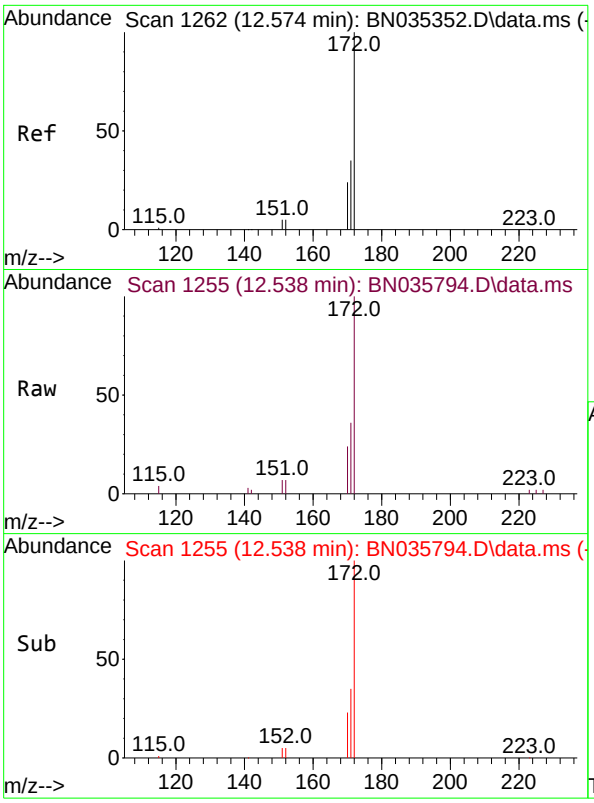


#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:330 Resp: 932

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.8	26.6	40.0

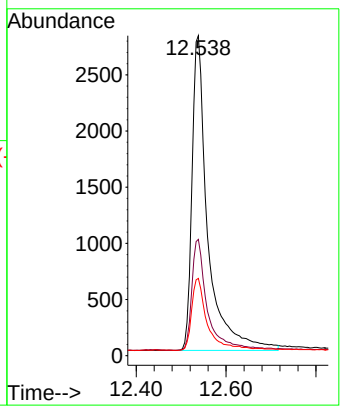




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:172 Resp: 685

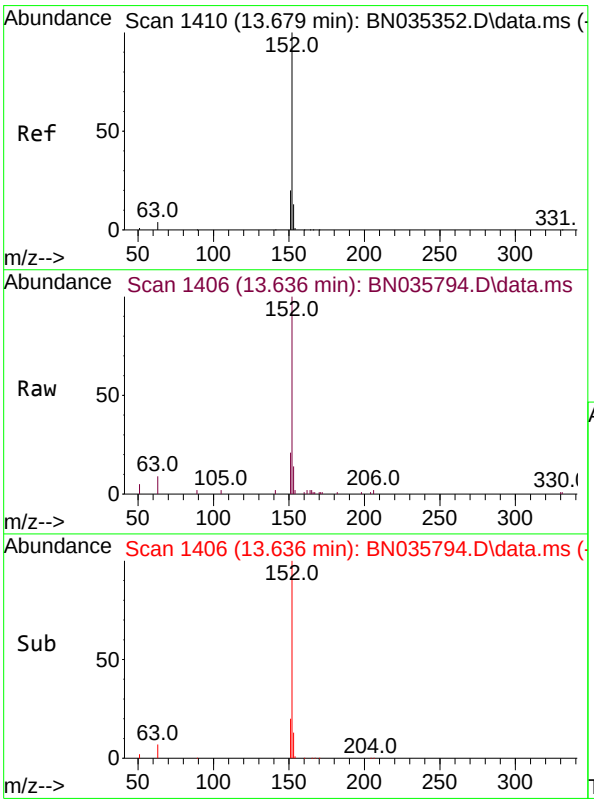
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

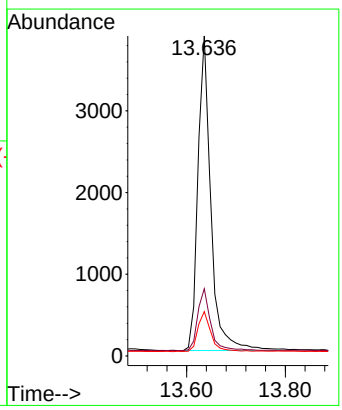
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

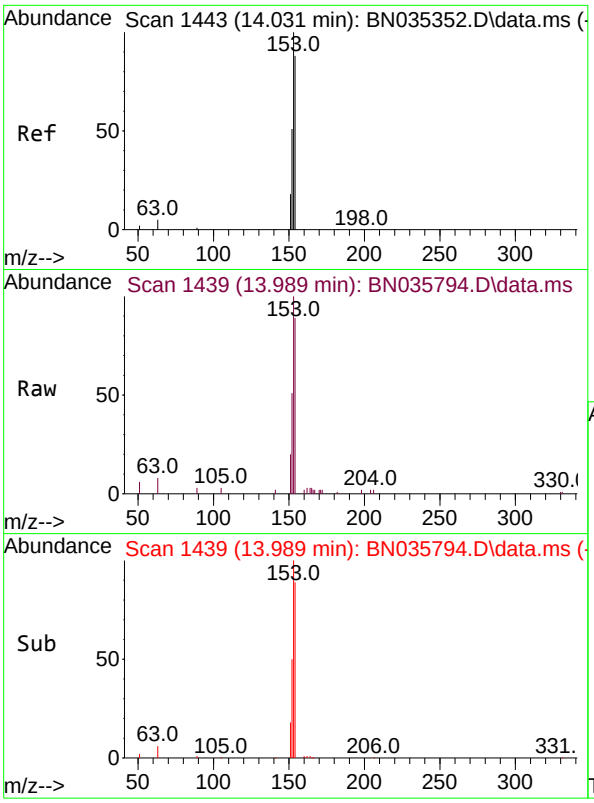


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:152 Resp: 6992

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	13.2	10.4	15.6





#17
Acenaphthene
Concen: 0.377 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

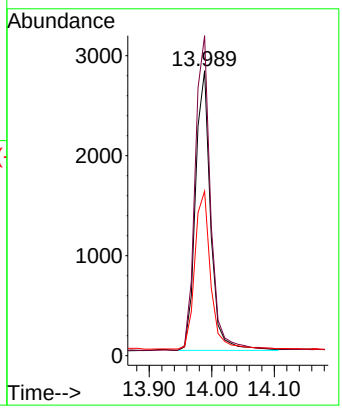
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

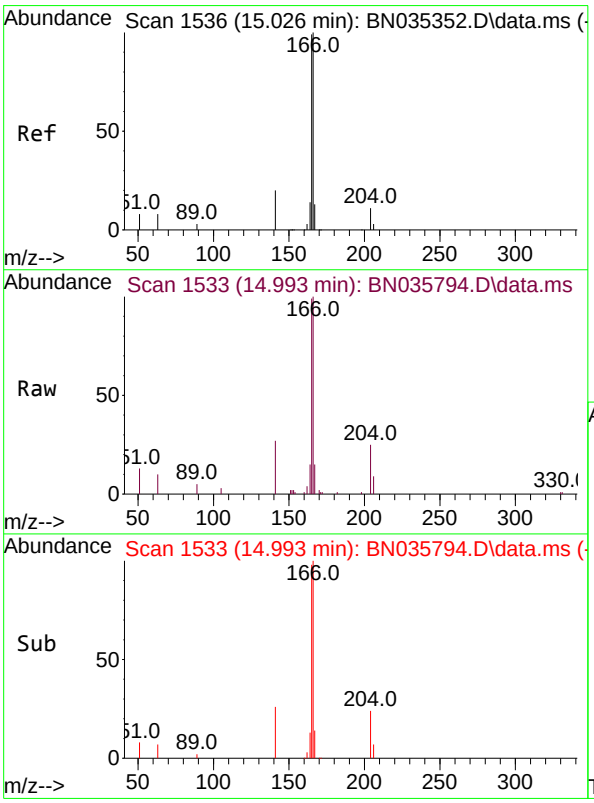
Tgt Ion:154 Resp: 471

Ion	Ratio	Lower	Upper
154	100		
153	115.7	92.6	139.0
152	59.2	49.0	73.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

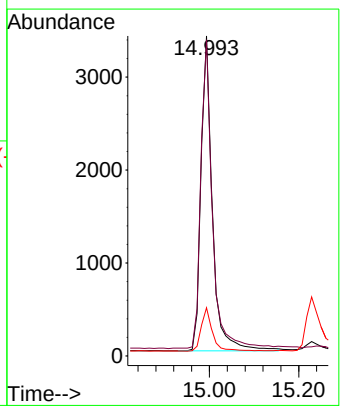


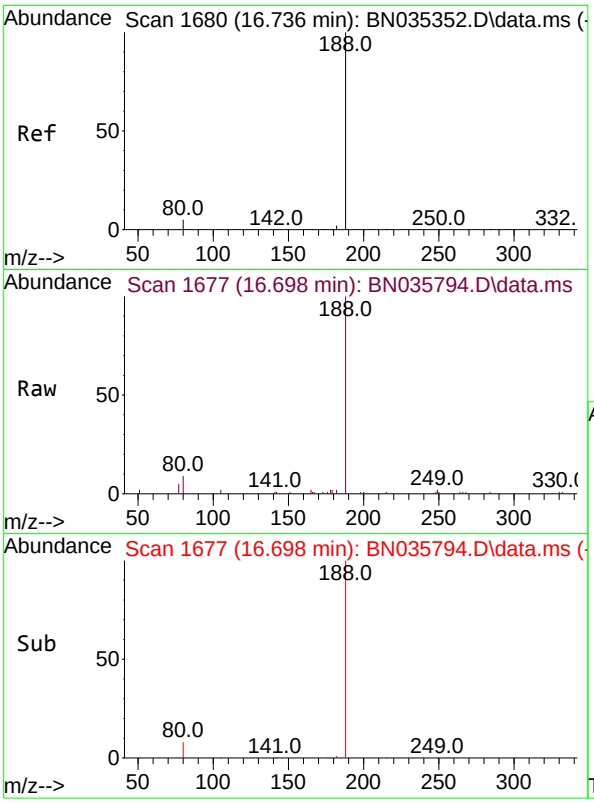


#18
Fluorene
Concen: 0.336 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:166 Resp: 6004

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.5	10.8	16.2

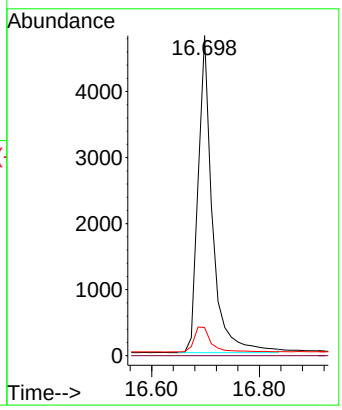




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:188 Resp: 884

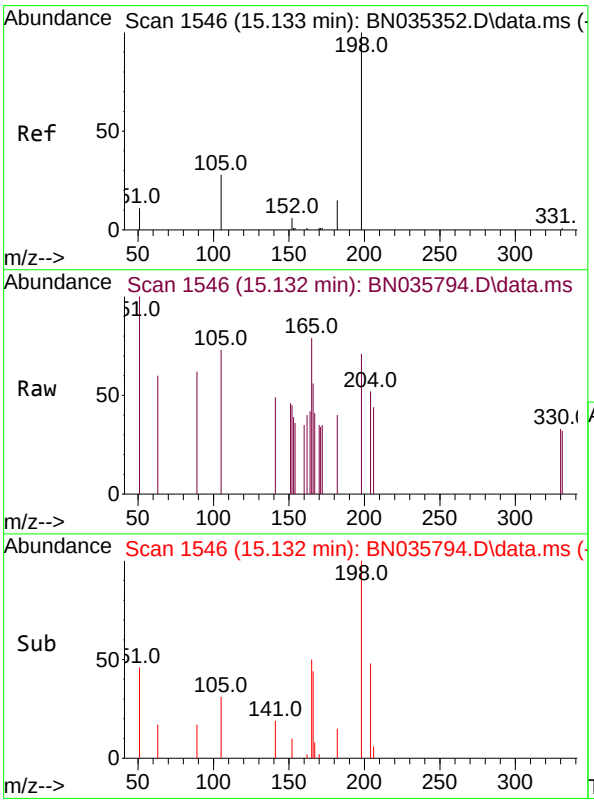
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

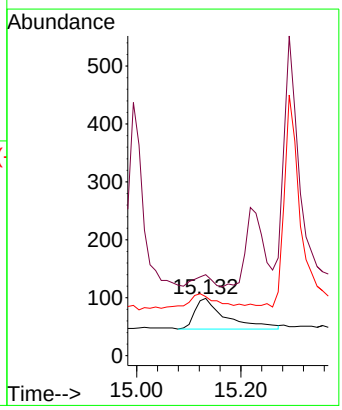
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

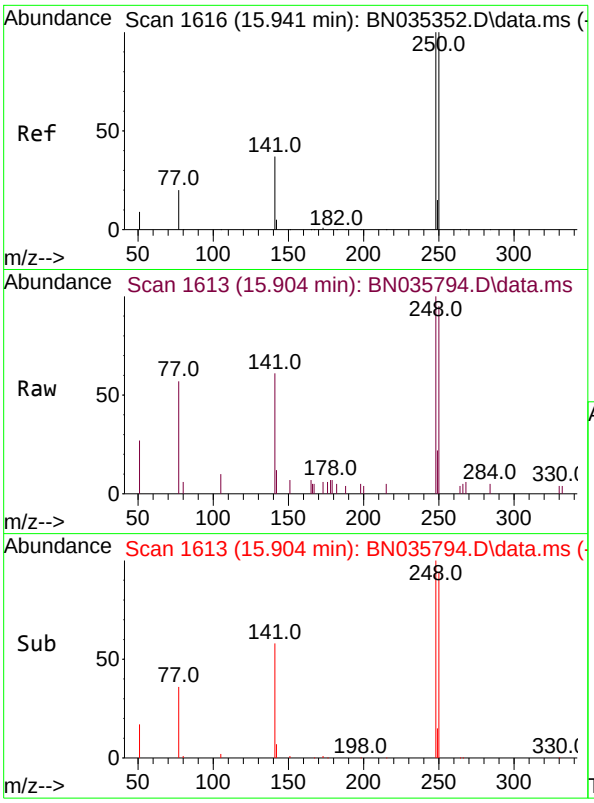


#20
4,6-Dinitro-2-methylphenol
Concen: 0.254 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:198 Resp: 221

Ion	Ratio	Lower	Upper
198	100		
51	141.4	46.5	69.7#
105	103.0	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

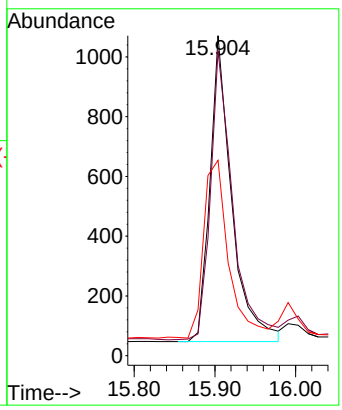
Tgt Ion:248 Resp: 191

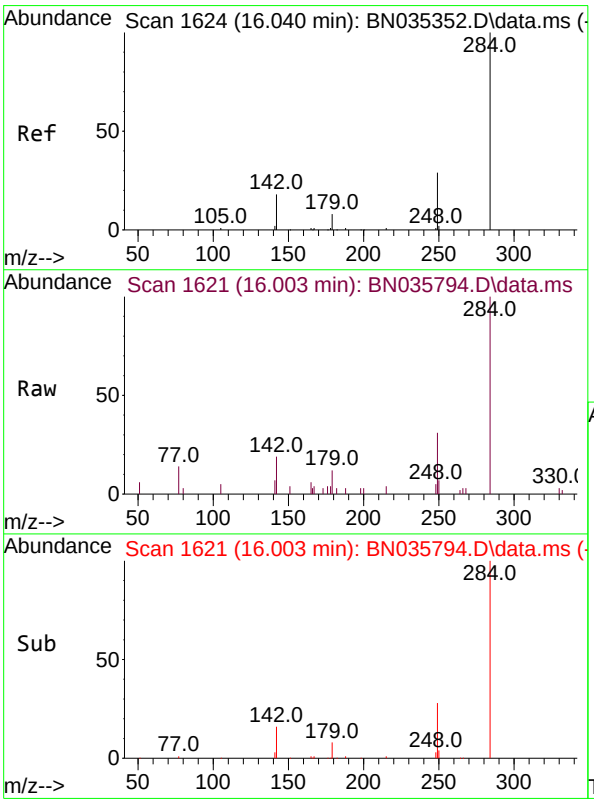
Ion	Ratio	Lower	Upper
248	100		
250	95.3	80.6	120.8
141	61.1	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

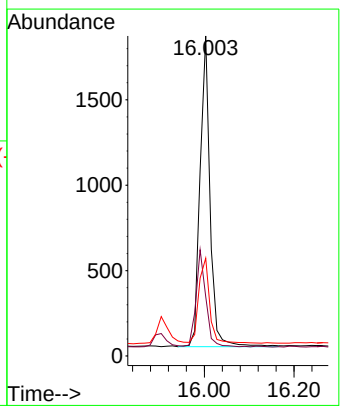


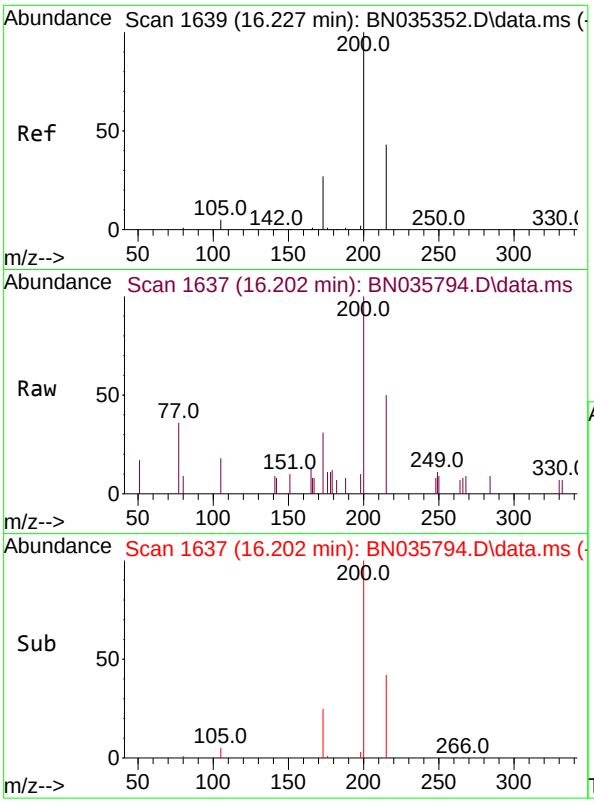


#22
Hexachlorobenzene
Concen: 0.462 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:284 Resp: 2804

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	30.0	24.6	36.8

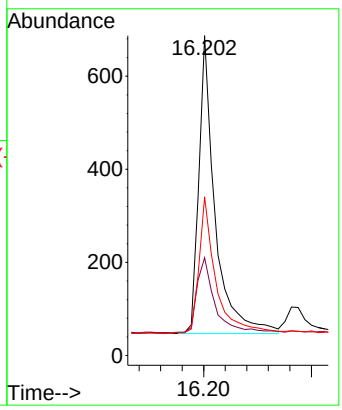




#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:200 Resp: 133

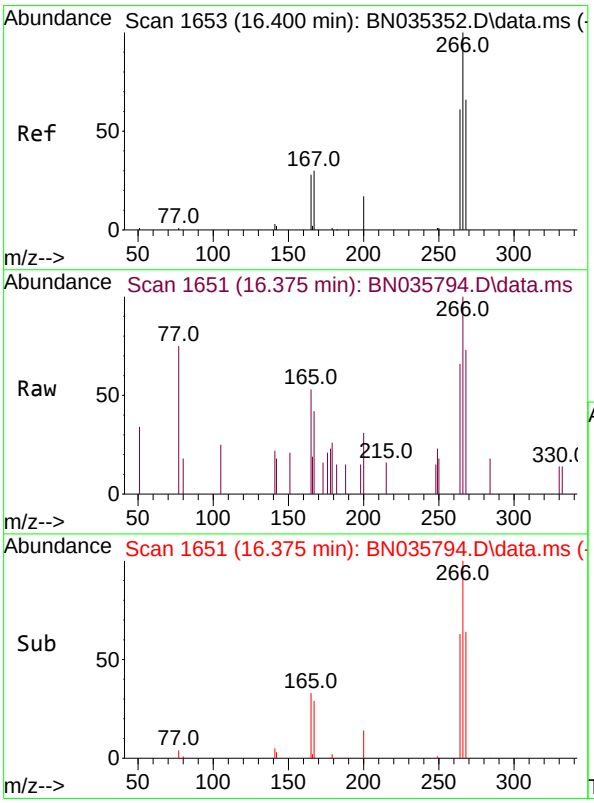
Ion	Ratio	Lower	Upper
200	100		
173	30.6	24.1	36.1
215	49.6	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

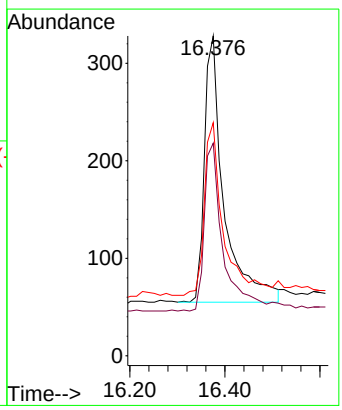
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

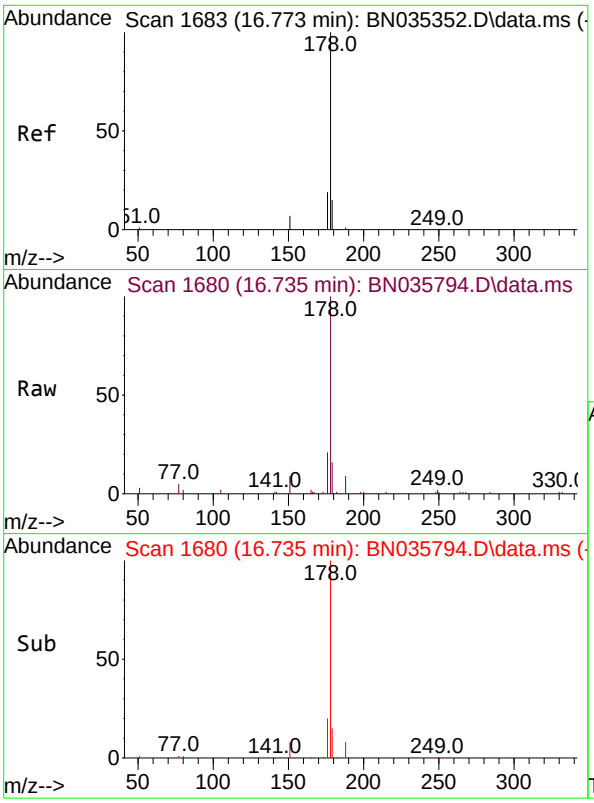


#24
Pentachlorophenol
Concen: 0.296 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:266 Resp: 783

Ion	Ratio	Lower	Upper
266	100		
264	62.1	42.3	63.5
268	63.6	43.3	64.9

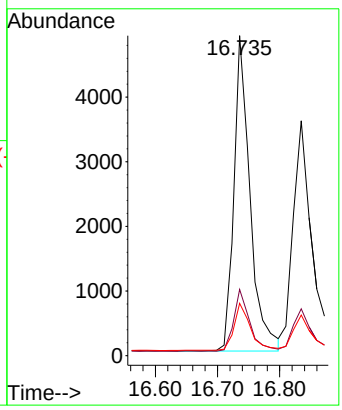




#25
Phenanthrene
Concen: 0.363 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 883

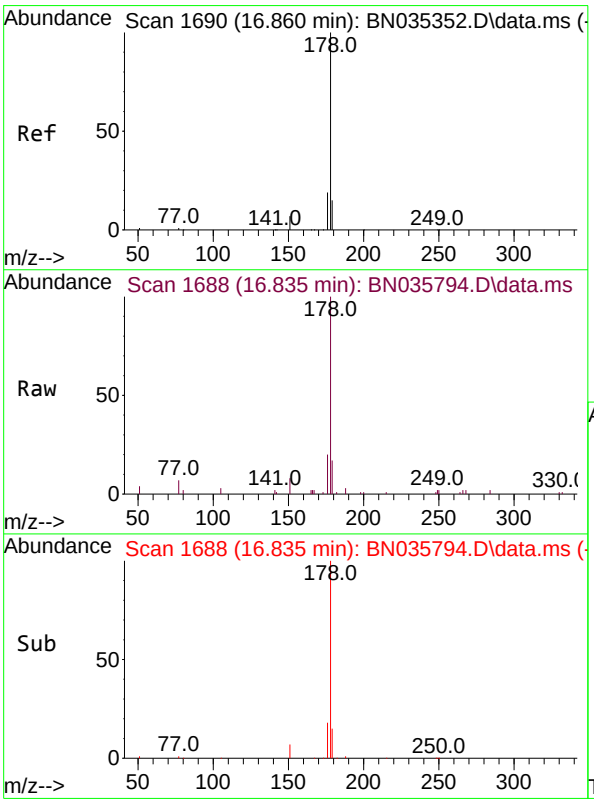
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

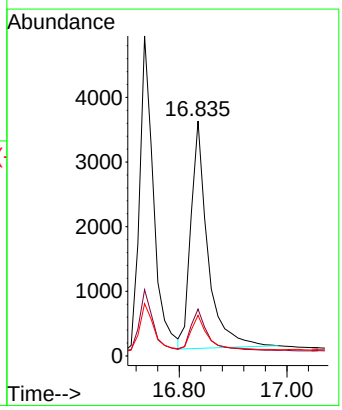
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

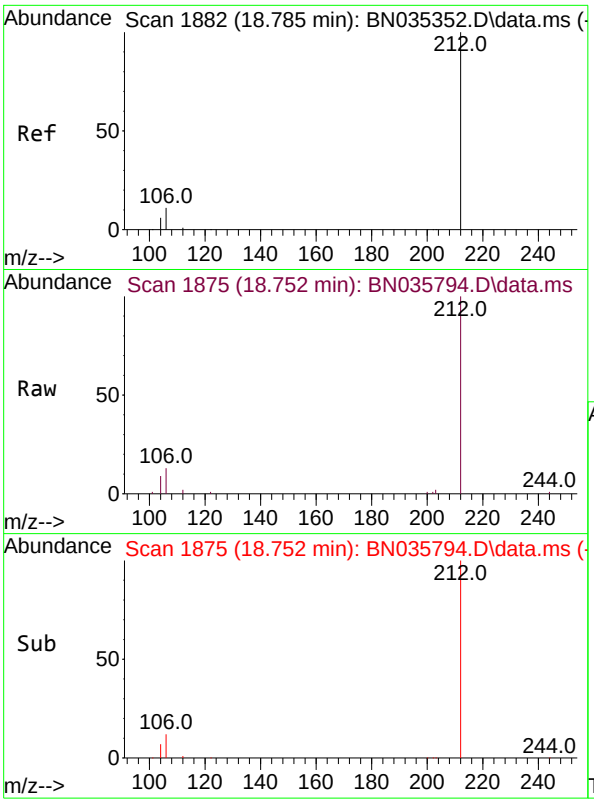


#26
Anthracene
Concen: 0.349 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 7665

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8

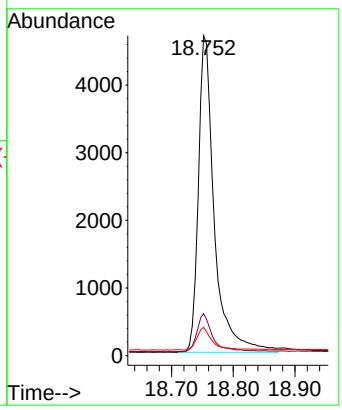




#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:212 Resp: 840

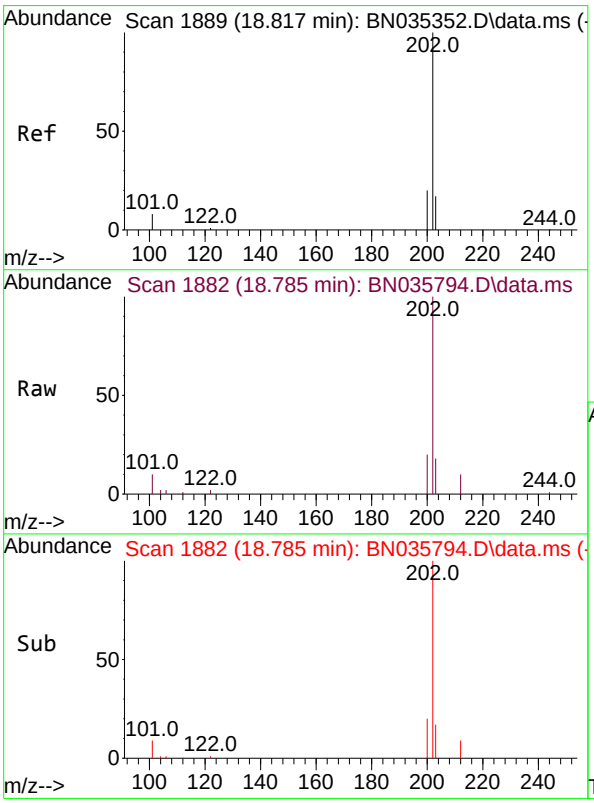
Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

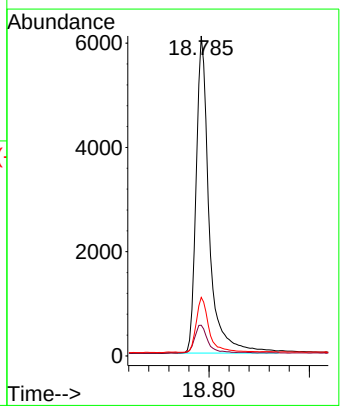
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

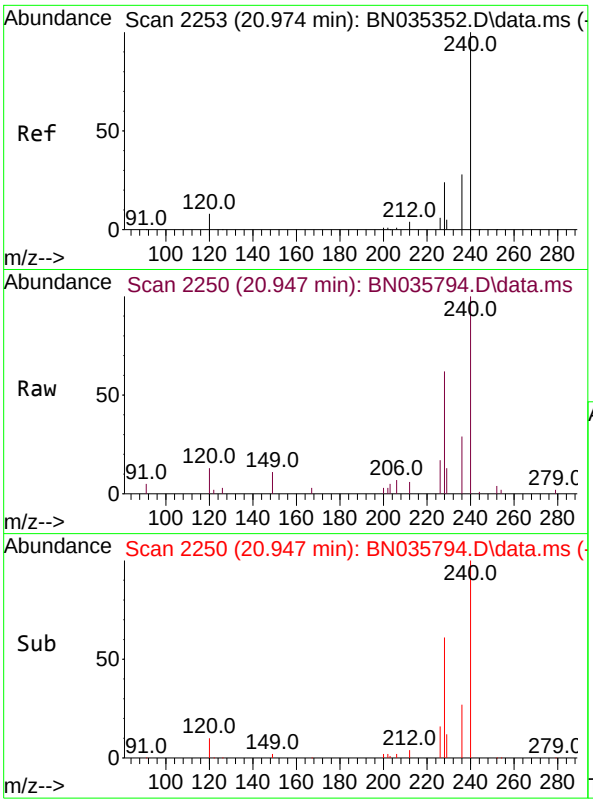


#28
Fluoranthene
Concen: 0.336 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11004

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.0	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

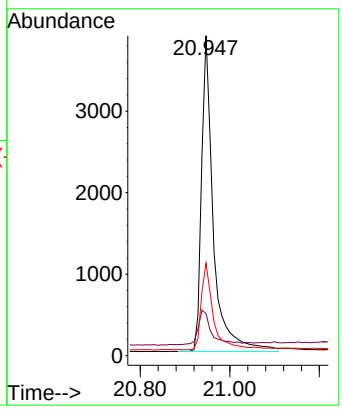
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

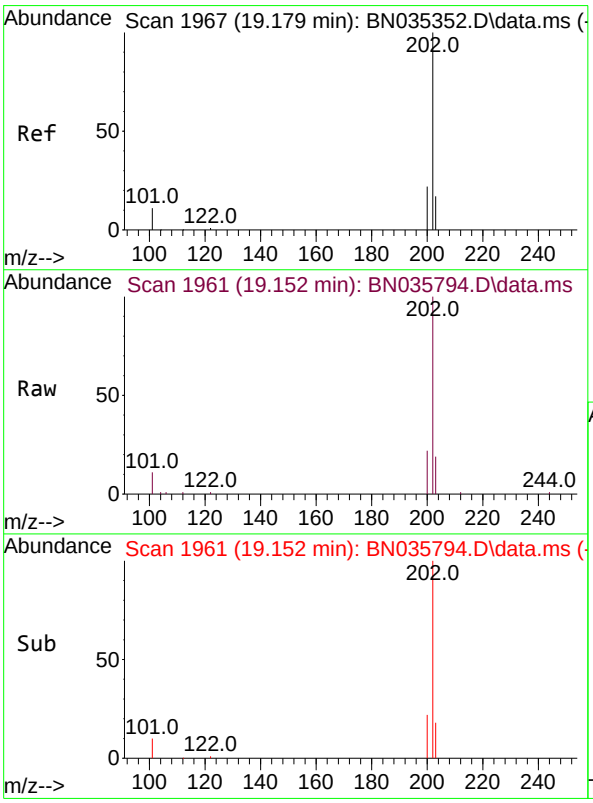
Tgt Ion:240 Resp: 716

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9
236	28.9	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

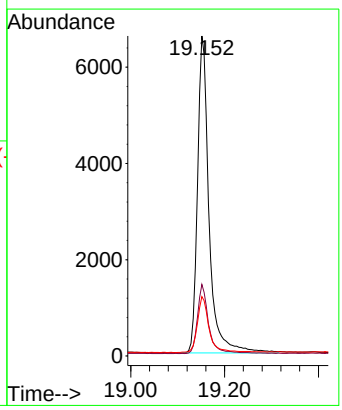


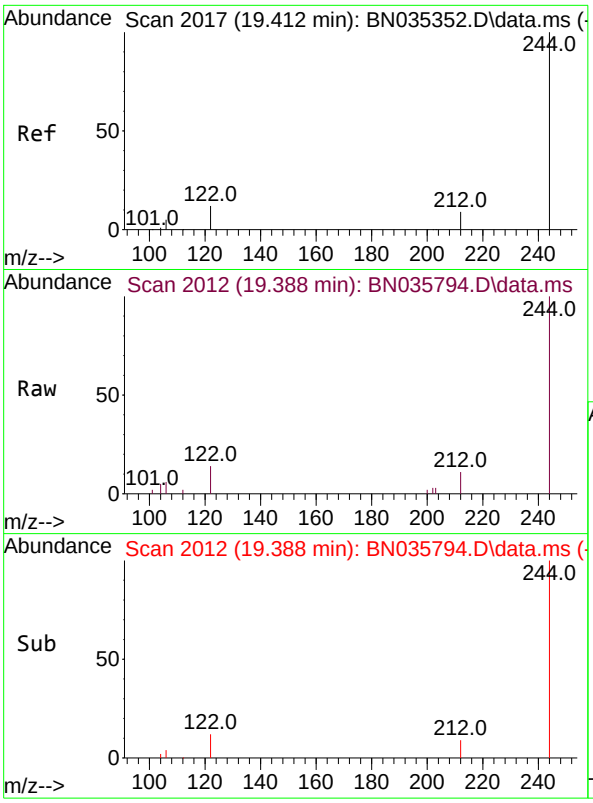


#30
Pyrene
Concen: 0.425 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11228

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.7	14.3	21.5

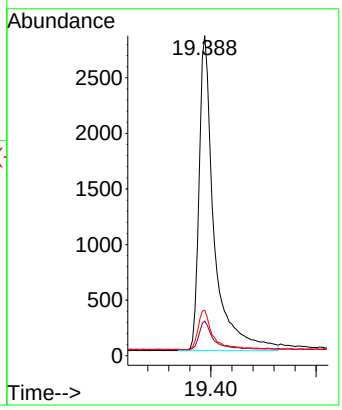




#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:244 Resp: 562

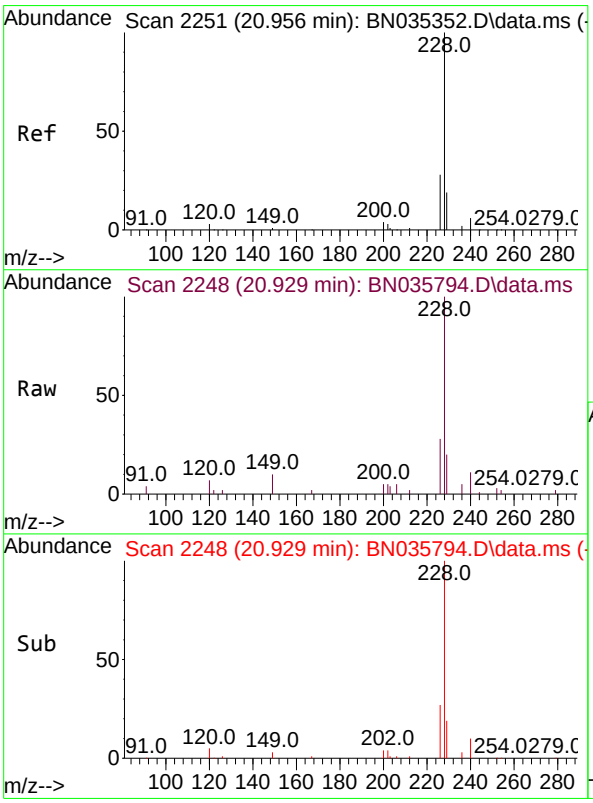
Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	14.2	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

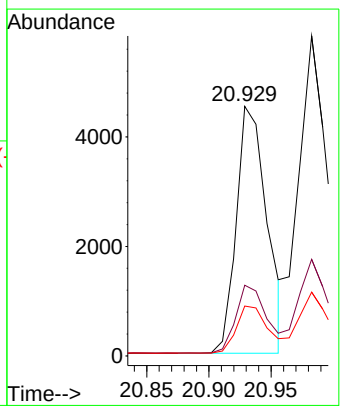
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

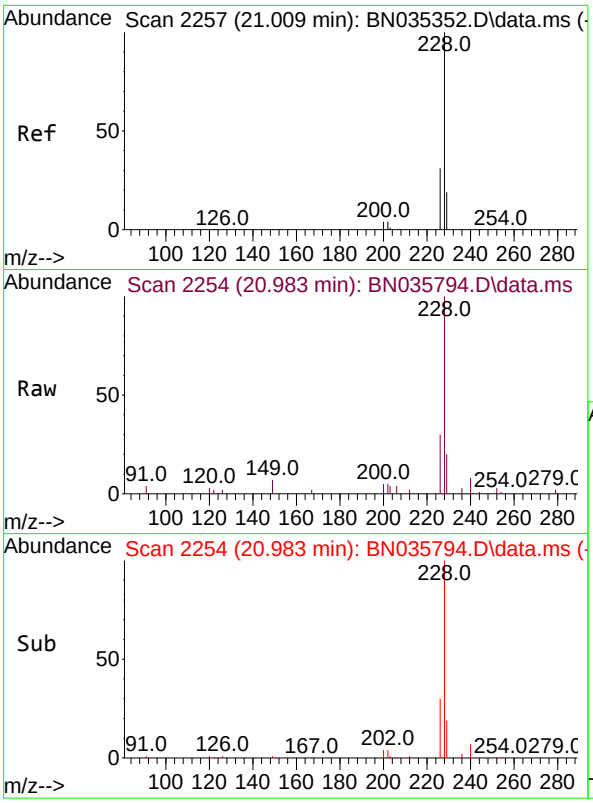


#32
Benzo(a)anthracene
Concen: 0.308 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:228 Resp: 7716

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.0	15.8	23.8

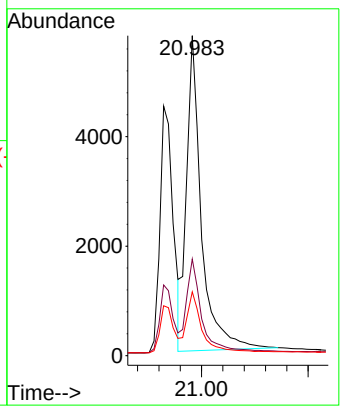




#33
Chrysene
Concen: 0.431 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:228 Resp: 1112

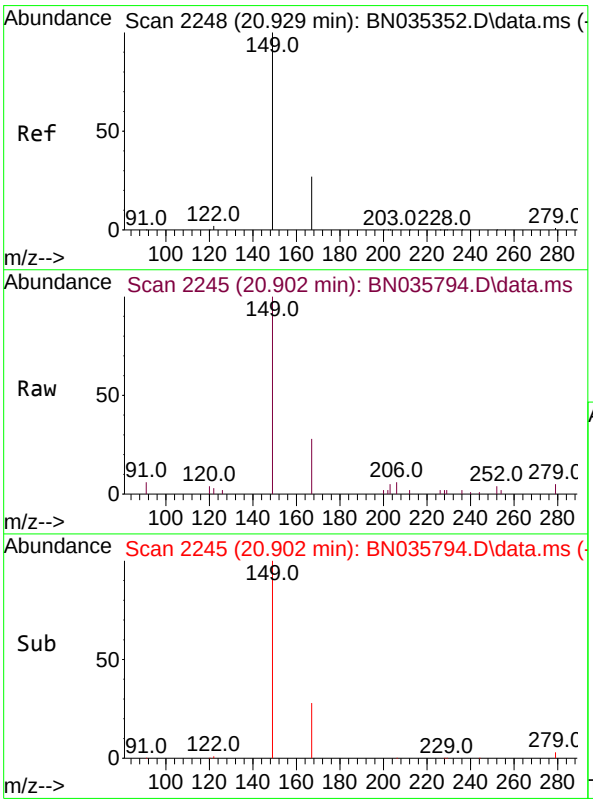
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

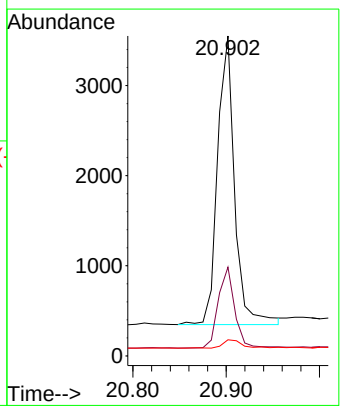
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

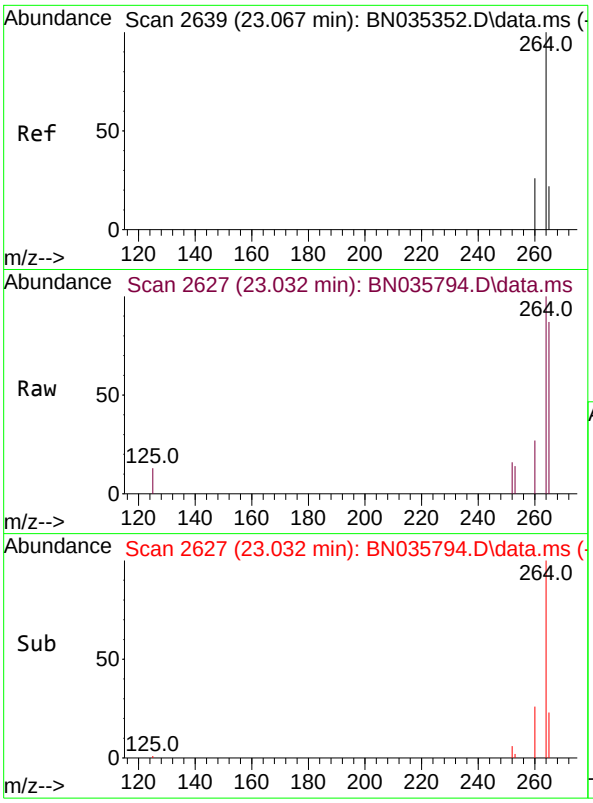


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.411 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:149 Resp: 4068

Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.2	33.4
279	3.6	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

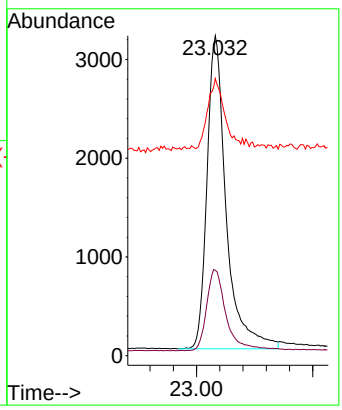
Tgt Ion:264 Resp: 727

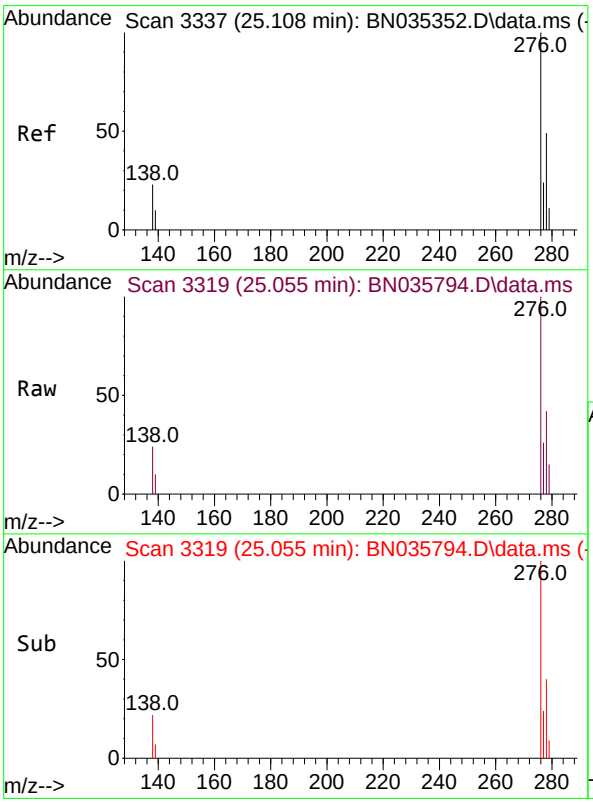
Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.2
265	86.6	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

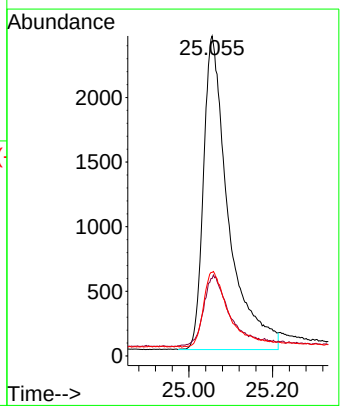


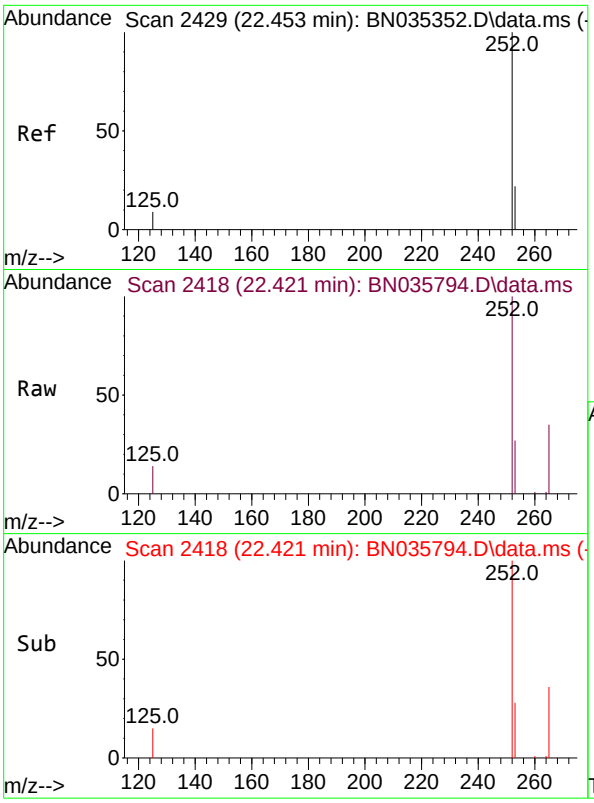


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.055 min Scan# 3319
Delta R.T. -0.012 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:276 Resp: 10012

Ion	Ratio	Lower	Upper
276	100		
138	22.3	19.4	29.0
277	24.6	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.533 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

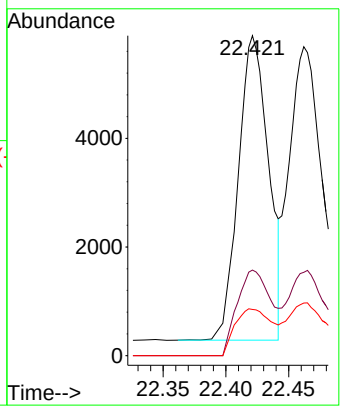
Tgt Ion:252 Resp: 1418

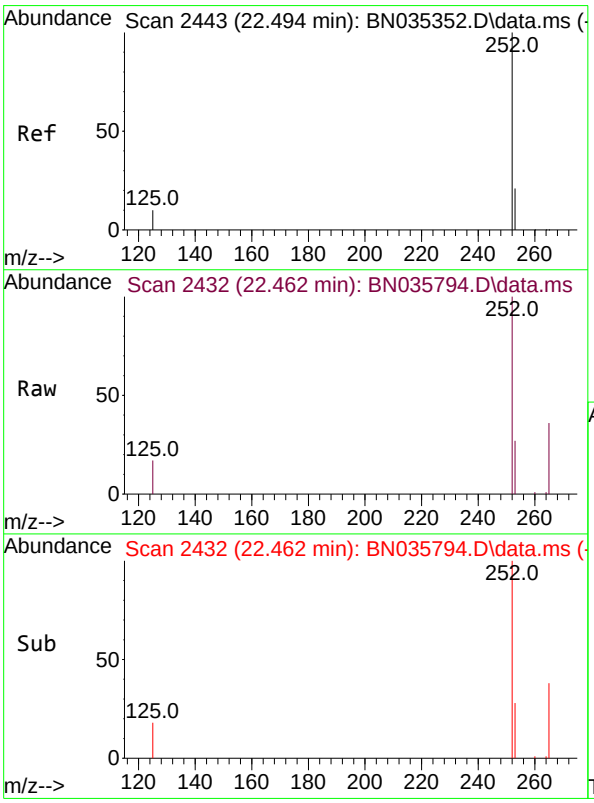
Ion	Ratio	Lower	Upper
252	100		
253	26.7	19.6	29.4
125	14.5	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

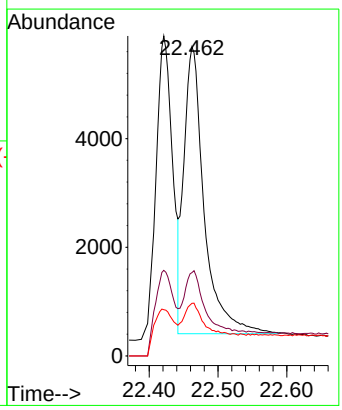


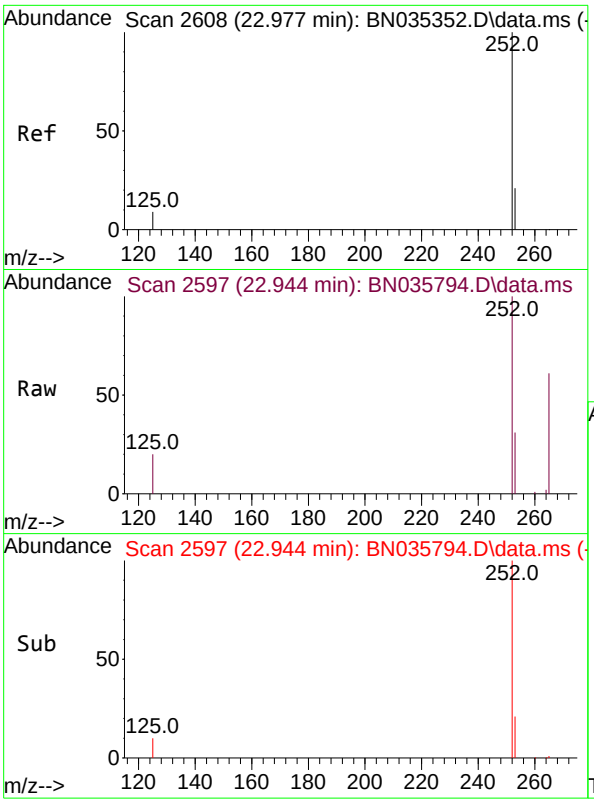


#38
Benzo(k)fluoranthene
Concen: 0.416 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:252 Resp: 10893

Ion	Ratio	Lower	Upper
252	100		
253	27.0	19.5	29.3
125	17.0	10.2	15.4#

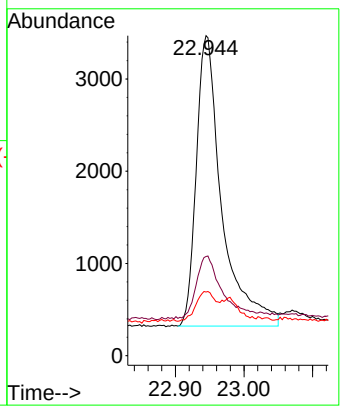




#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:252 Resp: 814

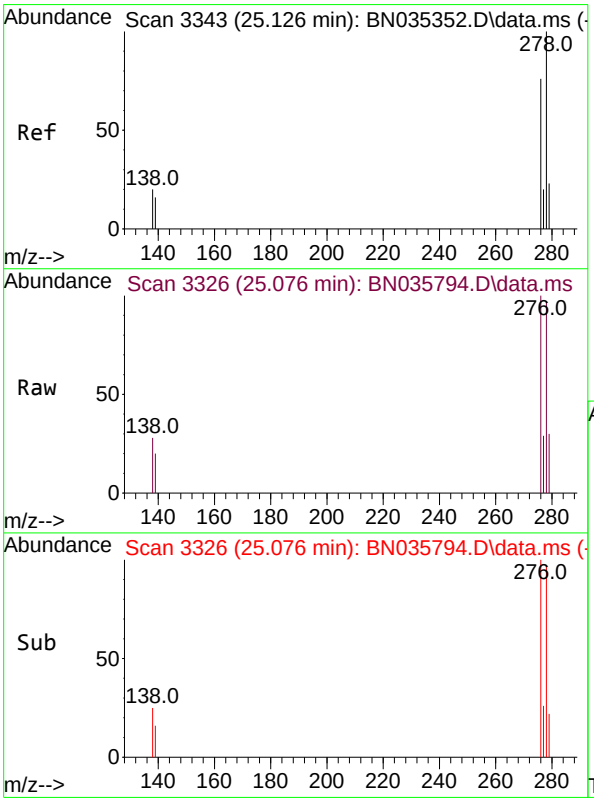
Ion	Ratio	Lower	Upper
252	100		
253	31.0	20.2	30.4#
125	19.9	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

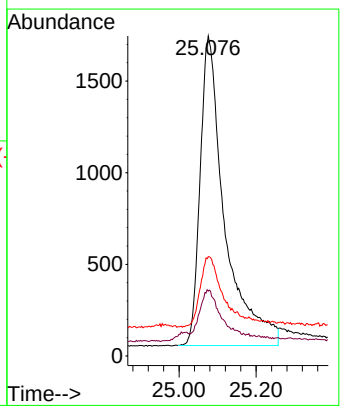
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

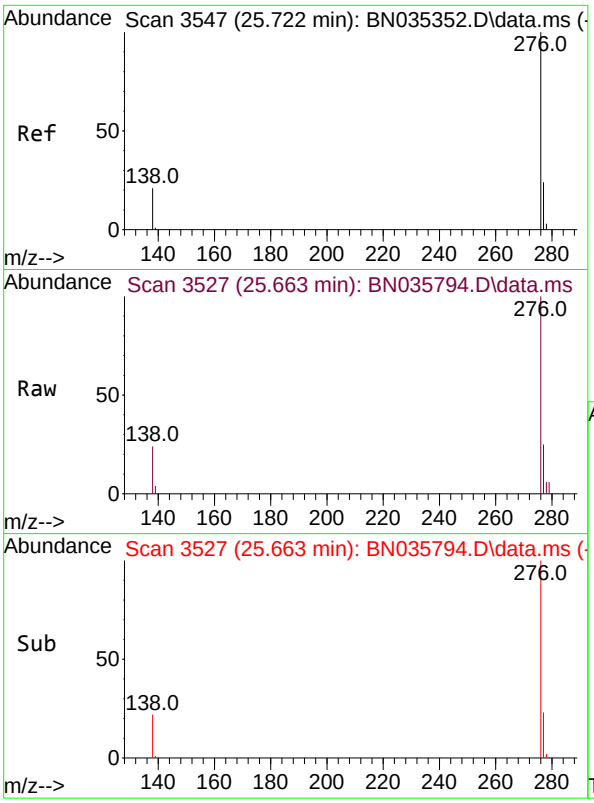


#40
Dibenzo(a,h)anthracene
Concen: 0.333 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:278 Resp: 7465

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.0	20.5	30.7#

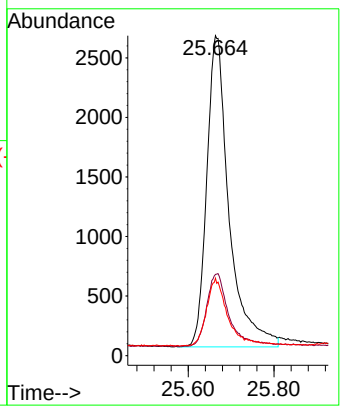




#41
Benzo(g,h,i)perylene
Concen: 0.401 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:276 Resp: 941

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	24.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035794.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158#	0.00
2		1,4-Dioxane	0.382	0.419	-9.7	176#	0.00
3		n-Nitrosodimethylamine	0.319	0.325	-1.9	157#	0.00
4	S	2-Fluorophenol	1.001	0.924	7.7	143	0.00
5	S	Phenol-d6	1.204	1.016	15.6	134	-0.01
6		bis(2-Chloroethyl)ether	1.012	0.880	13.0	140	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	151#	-0.01
8	S	Nitrobenzene-d5	0.244	0.278	-13.9	179#	-0.01
9		Naphthalene	1.055	0.998	5.4	144	-0.01
10		Hexachlorobutadiene	0.243	0.264	-8.6	161#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.540	13.7	131	0.00
12		2-Methylnaphthalene	0.755	0.638	15.5	130	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.208	26.8#	96	0.00
15	S	2-Fluorobiphenyl	1.512	1.529	-1.1	120	0.00
16		Acenaphthylene	1.680	1.560	7.1	115	-0.01
17		Acenaphthene	1.115	1.052	5.7	114	-0.01
18		Fluorene	1.596	1.340	16.0	102	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.025	35.9#	66	0.01
21		4-Bromophenyl-phenylether	0.234	0.217	7.3	89	-0.01
22		Hexachlorobenzene	0.275	0.317	-15.3	108	-0.01
23		Atrazine	0.167	0.151	9.6	92	0.00
24		Pentachlorophenol	0.120	0.089	25.8#	86	0.00
25		Phenanthrene	1.099	0.998	9.2	87	-0.01
26		Anthracene	0.994	0.867	12.8	86	0.00
27	SURR	Fluoranthene-d10	1.134	0.950	16.2	82	0.00
28		Fluoranthene	1.481	1.244	16.0	82	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	75	0.00
30		Pyrene	1.477	1.567	-6.1	80	0.00
31	S	Terphenyl-d14	0.789	0.785	0.5	75	0.00
32		Benzo(a)anthracene	1.399	1.077	23.0	60	0.00
33		Chrysene	1.443	1.554	-7.7	81	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.568	-2.7	83	0.00
35	I	Perylene-d12	1.000	1.000	0.0	67	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.376	12.0	60	-0.01
37		Benzo(b)fluoranthene	1.463	1.950	-33.3#	100	0.00
38		Benzo(k)fluoranthene	1.440	1.497	-4.0	72	0.00
39	C	Benzo(a)pyrene	1.205	1.119	7.1	66	0.00
40		Dibenzo(a,h)anthracene	1.234	1.026	16.9	58	0.00
41		Benzo(g,h,i)perylene	1.289	1.294	-0.4	70	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN035794.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	158	0.00
2		1,4-Dioxane	0.400	0.438	-9.5	176	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	157	0.00
4	S	2-Fluorophenol	0.400	0.369	7.8	143	0.00
5	S	Phenol-d6	0.400	0.338	15.5	134	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.348	13.0	140	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	151	-0.01
8	S	Nitrobenzene-d5	0.400	0.456	-14.0	179	-0.01
9		Naphthalene	0.400	0.379	5.3	144	-0.01
10		Hexachlorobutadiene	0.400	0.434	-8.5	161	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.345	13.8	131	0.00
12		2-Methylnaphthalene	0.400	0.338	15.5	130	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.293	26.8#	96	0.00
15	S	2-Fluorobiphenyl	0.400	0.405	-1.3	120	0.00
16		Acenaphthylene	0.400	0.372	7.0	115	-0.01
17		Acenaphthene	0.400	0.377	5.8	114	-0.01
18		Fluorene	0.400	0.336	16.0	102	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.254	36.5#	66	0.01
21		4-Bromophenyl-phenylether	0.400	0.371	7.3	89	-0.01
22		Hexachlorobenzene	0.400	0.462	-15.5	108	-0.01
23		Atrazine	0.400	0.363	9.3	92	0.00
24		Pentachlorophenol	0.400	0.296	26.0#	86	0.00
25		Phenanthrene	0.400	0.363	9.3	87	-0.01
26		Anthracene	0.400	0.349	12.8	86	0.00
27	SURR	Fluoranthene-d10	0.400	0.335	16.3	82	0.00
28		Fluoranthene	0.400	0.336	16.0	82	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	75	0.00
30		Pyrene	0.400	0.425	-6.2	80	0.00
31	S	Terphenyl-d14	0.400	0.398	0.5	75	0.00
32		Benzo(a)anthracene	0.400	0.308	23.0	60	0.00
33		Chrysene	0.400	0.431	-7.7	81	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.411	-2.7	83	0.00
35	I	Perylene-d12	0.400	0.400	0.0	67	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.352	12.0	60	-0.01
37		Benzo(b)fluoranthene	0.400	0.533	-33.3#	100	0.00
38		Benzo(k)fluoranthene	0.400	0.416	-4.0	72	0.00
39	C	Benzo(a)pyrene	0.400	0.371	7.3	66	0.00
40		Dibenzo(a,h)anthracene	0.400	0.333	16.8	58	0.00
41		Benzo(g,h,i)perylene	0.400	0.401	-0.3	70	-0.01

(#) = 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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 07:09

Lab File ID: BN035809.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.563		-10.1	50.0
Fluoranthene-d10	1.134	0.947		-16.5	50.0
2-Fluorophenol	1.001	0.946		-5.5	50.0
Phenol-d6	1.204	1.086		-9.8	50.0
Nitrobenzene-d5	0.244	0.307		25.8	50.0
2-Fluorobiphenyl	1.512	1.535		1.5	50.0
2,4,6-Tribromophenol	0.284	0.224		-21.1	50.0
Terphenyl-d14	0.789	0.817		3.5	50.0
1,4-Dioxane	0.382	0.382		0.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035809.D
Acq On : 24 Dec 2024 07:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 93 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 07:43:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	8362	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	20753	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	12456	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	24922	0.400	ng		#-0.01
29) Chrysene-d12	20.947	240	20198	0.400	ng		0.00
35) Perylene-d12	23.026	264	21431	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	7909	0.378	ng		-0.01
5) Phenol-d6	6.470	99	9085	0.361	ng		-0.02
8) Nitrobenzene-d5	8.397	82	6379m	0.503	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	11679	0.360	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	2792	0.316	ng		-0.01
15) 2-Fluorobiphenyl	12.523	172	19125	0.406	ng		-0.02
27) Fluoranthene-d10	18.747	212	23606	0.334	ng		-0.01
31) Terphenyl-d14	19.379	244	16501	0.414	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	3198	0.400	ng		100
3) n-Nitrosodimethylamine	3.263	42	2673	0.401	ng	#	88
6) bis(2-Chloroethyl)ether	6.716	93	7863	0.372	ng		99
9) Naphthalene	10.052	128	21064	0.385	ng		98
10) Hexachlorobutadiene	10.340	225	5424	0.430	ng	#	100
12) 2-Methylnaphthalene	11.682	142	13794	0.352	ng		98
16) Acenaphthylene	13.625	152	19447	0.372	ng		99
17) Acenaphthene	13.978	154	13250	0.382	ng		99
18) Fluorene	14.983	166	17299	0.348	ng		99
20) 4,6-Dinitro-2-methylph...	15.101	198	892	0.364	ng		99
21) 4-Bromophenyl-phenylether	15.892	248	5717	0.392	ng	#	72
22) Hexachlorobenzene	15.991	284	7638	0.446	ng		97
23) Atrazine	16.189	200	3955	0.381	ng		99
24) Pentachlorophenol	16.363	266	2368	0.318	ng	#	86
25) Phenanthrene	16.736	178	25787	0.377	ng		100
26) Anthracene	16.822	178	22279	0.360	ng		99
28) Fluoranthene	18.780	202	31096	0.337	ng		100
30) Pyrene	19.147	202	32211	0.432	ng		100
32) Benzo(a)anthracene	20.929	228	25428	0.360	ng		99
33) Chrysene	20.983	228	29722	0.408	ng		98
34) Bis(2-ethylhexyl)phtha...	20.902	149	11220	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	25.047	276	32558	0.389	ng		100
37) Benzo(b)fluoranthene	22.418	252	43862	0.559	ng		98
38) Benzo(k)fluoranthene	22.459	252	32848	0.426	ng		97
39) Benzo(a)pyrene	22.939	252	23952	0.371	ng		100
40) Dibenzo(a,h)anthracene	25.064	278	24090	0.364	ng		99
41) Benzo(g,h,i)perylene	25.658	276	28353	0.410	ng		99

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

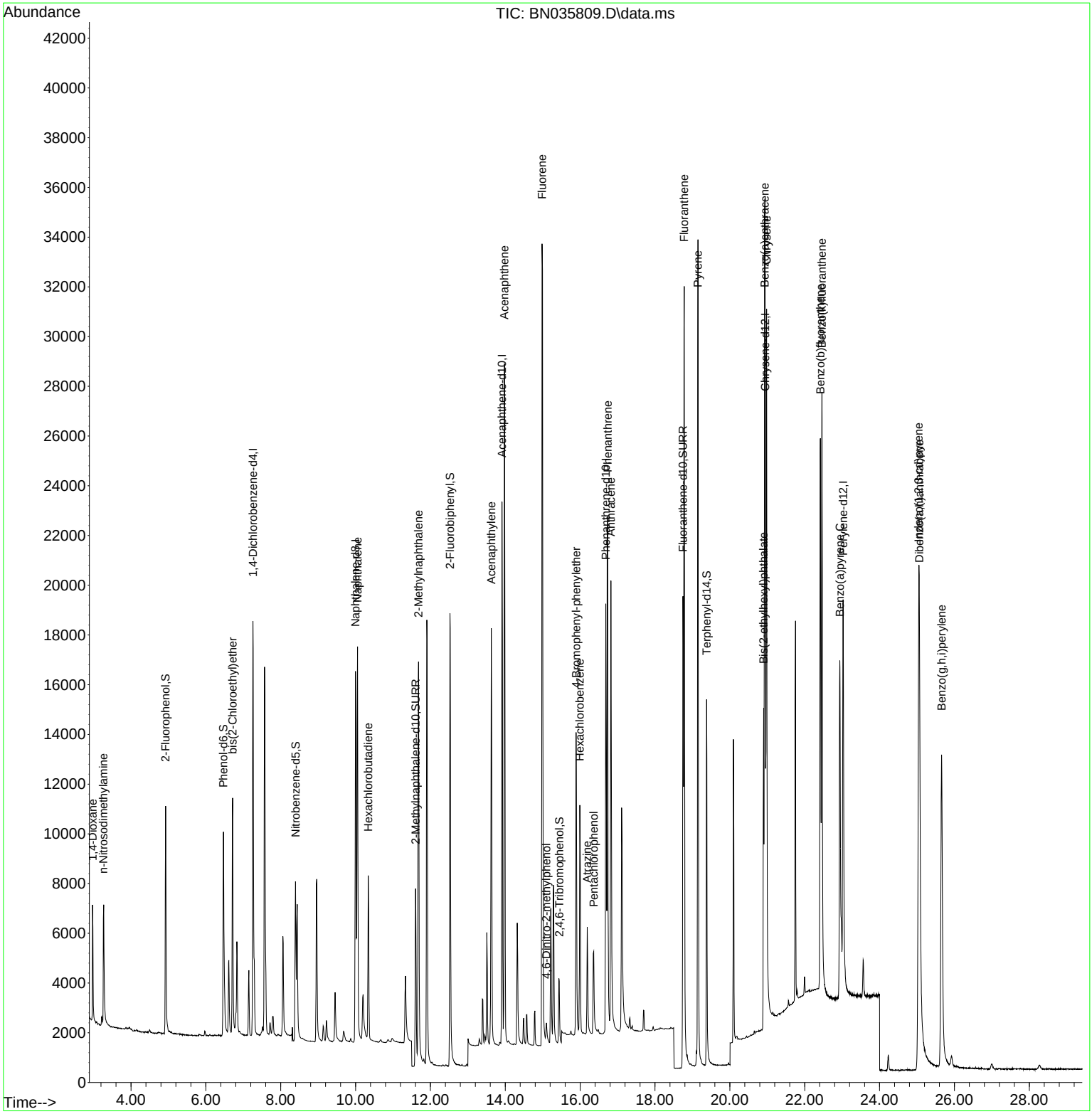
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035809.D
Acq On : 24 Dec 2024 07:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 93 Sample Multiplier: 1

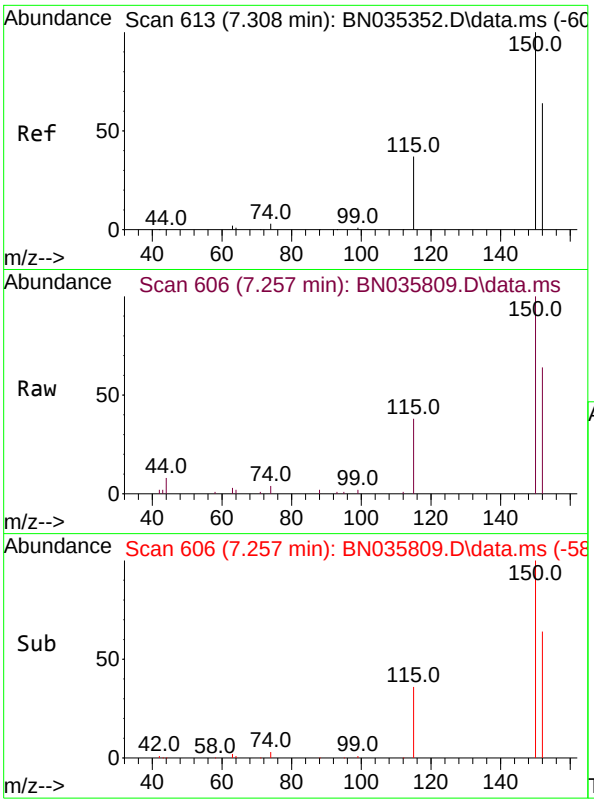
Quant Time: Dec 24 07:43:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

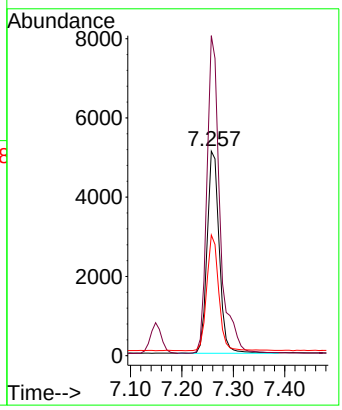




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:152 Resp: 836

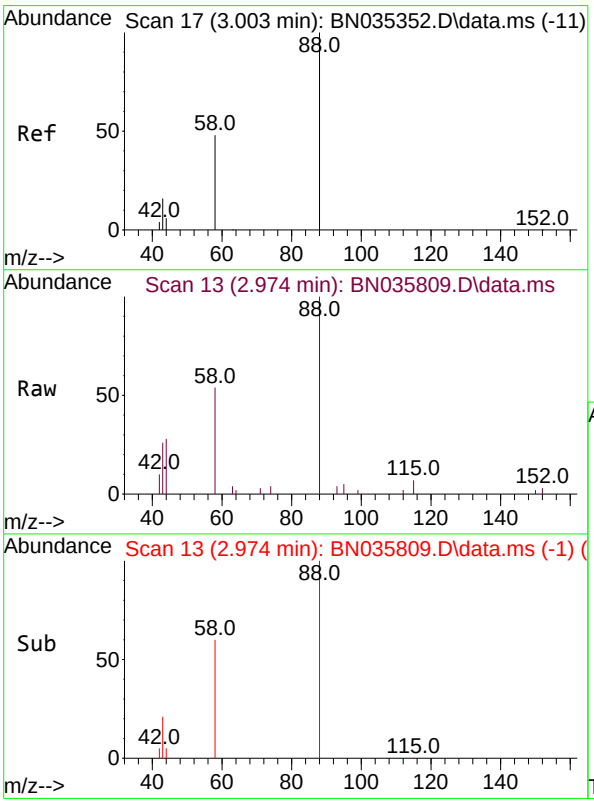
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	59.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

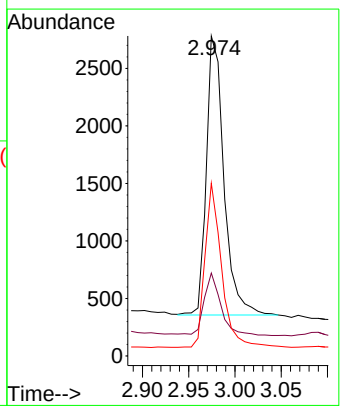
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

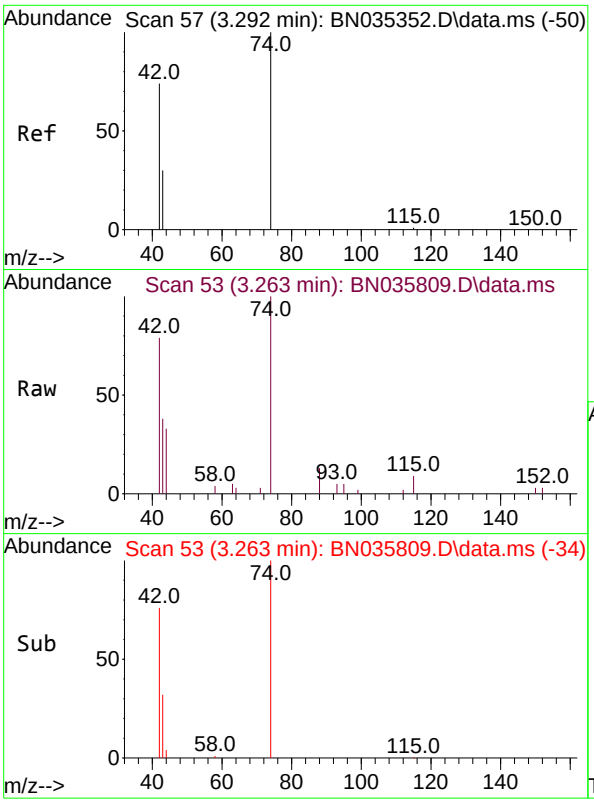


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 88 Resp: 3198

Ion	Ratio	Lower	Upper
88	100		
43	21.6	17.2	25.8
58	55.7	44.5	66.7

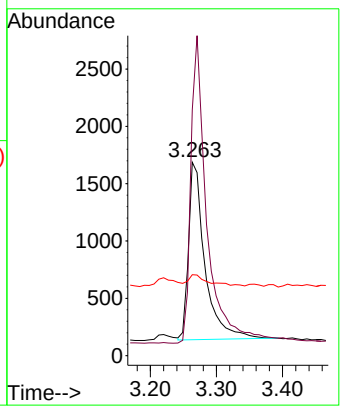




#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 42 Resp: 267

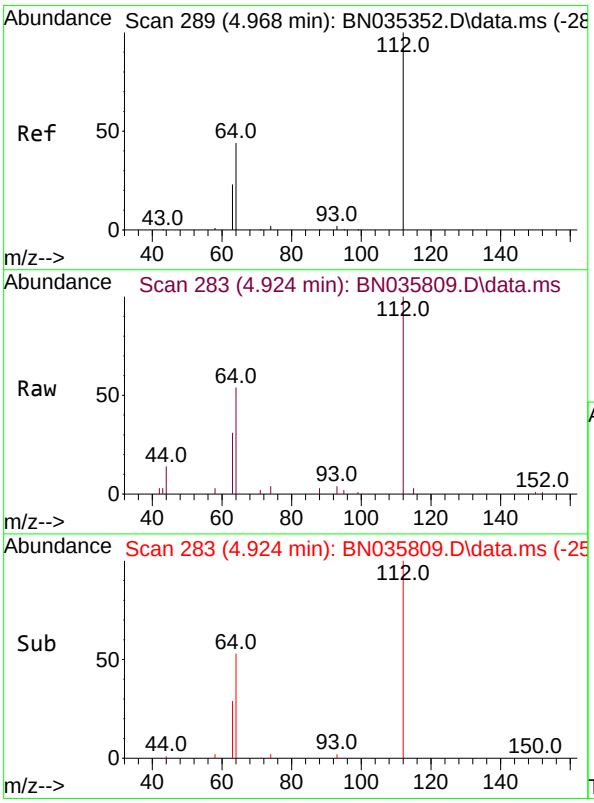
Ion	Ratio	Lower	Upper
42	100		
74	172.2	124.9	187.3
44	9.1	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

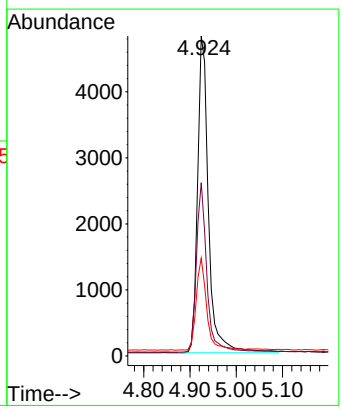
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

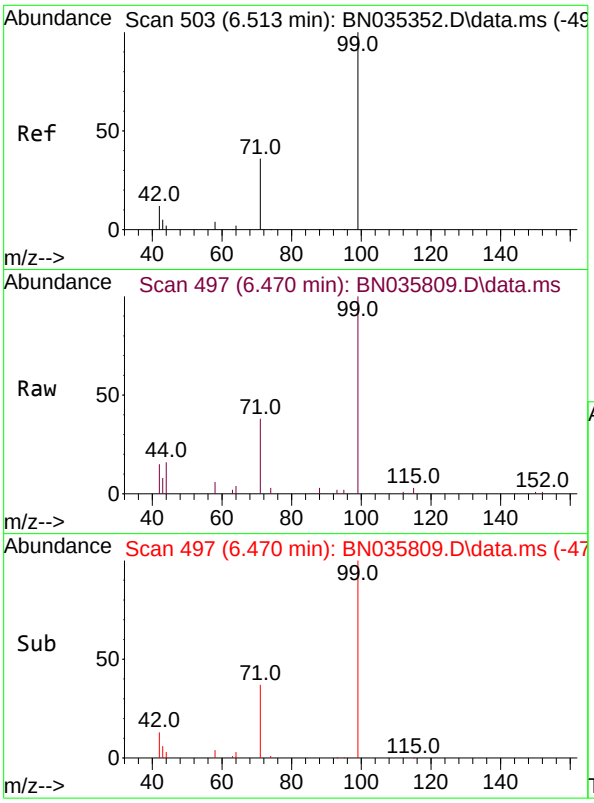


#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:112 Resp: 7909

Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	28.0	21.0	31.6





#5
Phenol-d6
Concen: 0.361 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

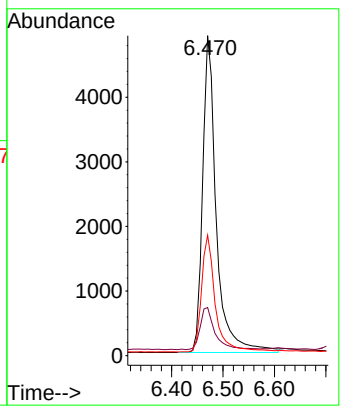
Tgt Ion: 99 Resp: 908

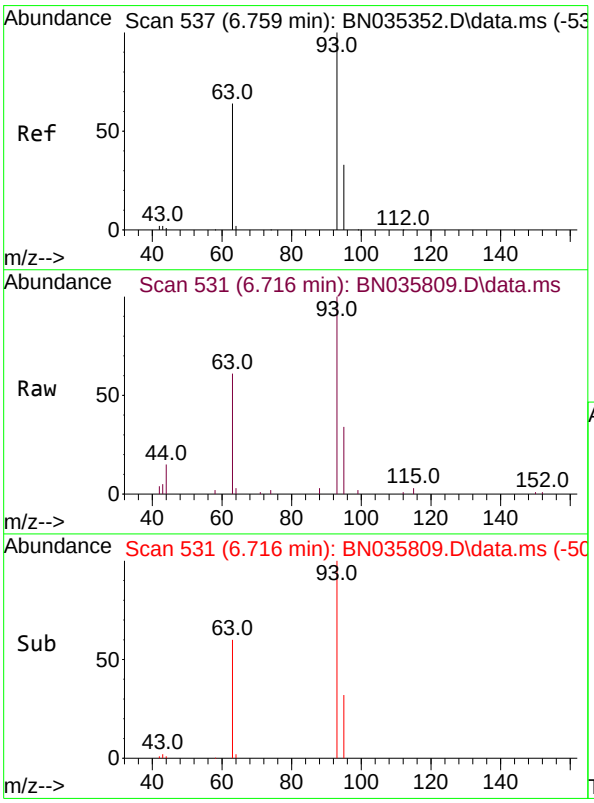
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	37.3	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

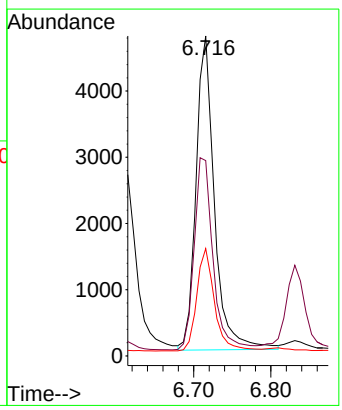


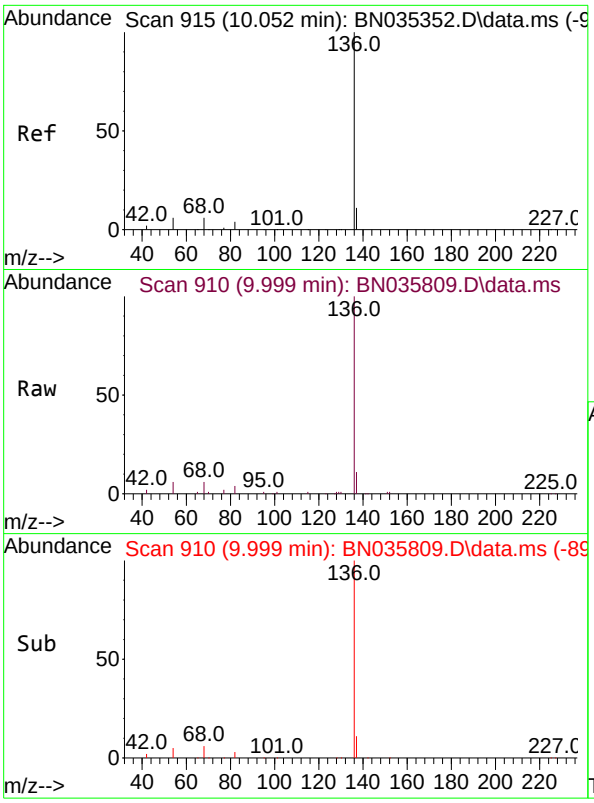


#6
bis(2-Chloroethyl)ether
Concen: 0.372 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 93 Resp: 7863

Ion	Ratio	Lower	Upper
93	100		
63	62.7	50.4	75.6
95	31.6	25.7	38.5

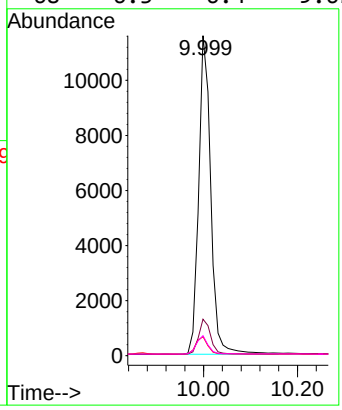




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:136 Resp: 2075

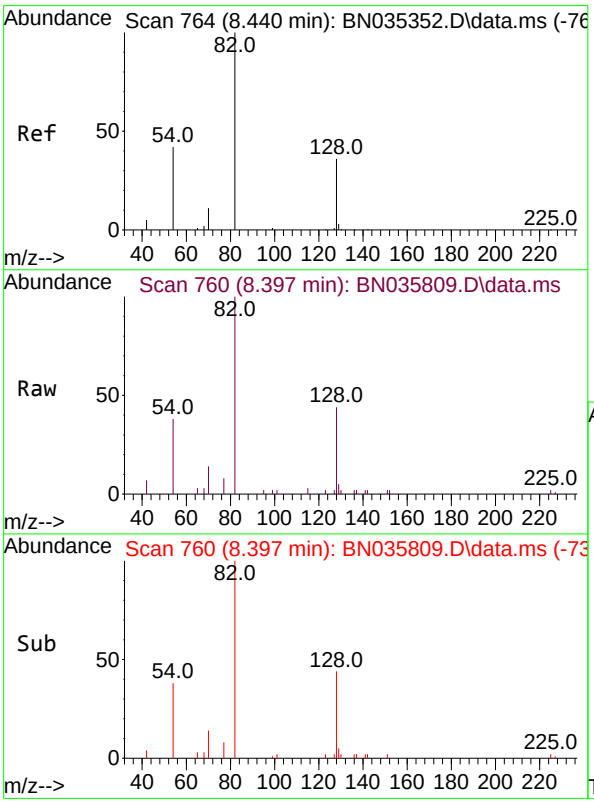
Ion	Ratio	Lower	Upper
136	100		
137	11.4	10.2	15.2
54	5.9	6.1	9.1#
68	6.3	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

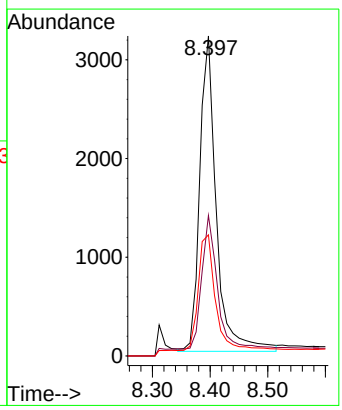
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

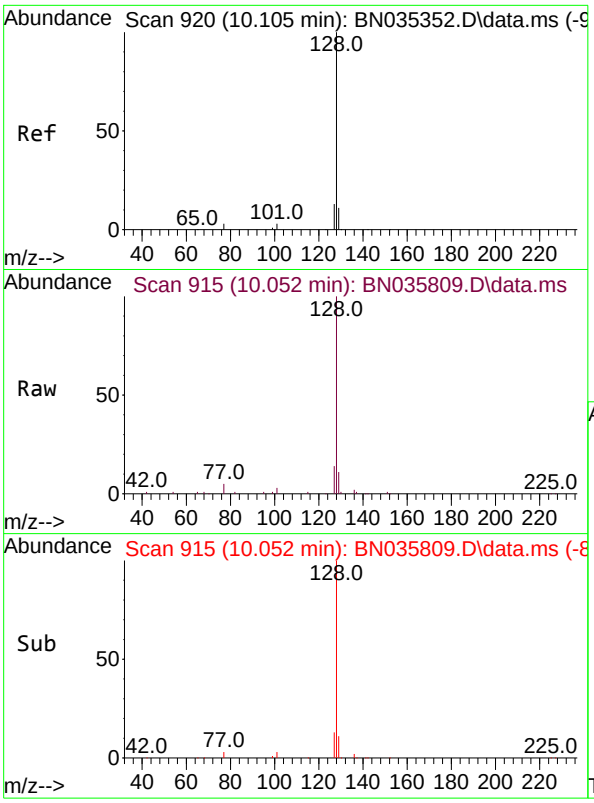


#8
Nitrobenzene-d5
Concen: 0.503 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 82 Resp: 6379

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	37.9	36.7	55.1





#9
Naphthalene
Concen: 0.385 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

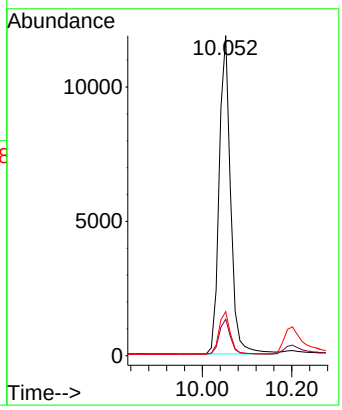
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

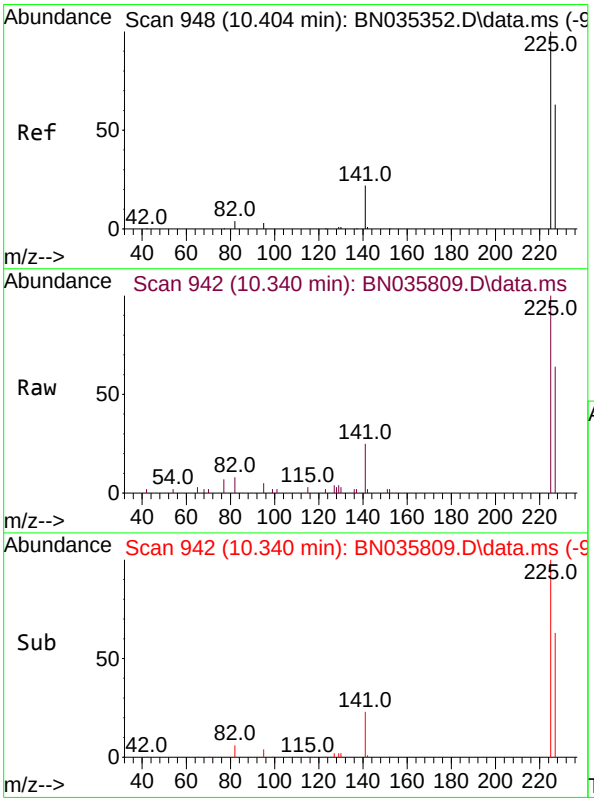
Tgt Ion:128 Resp: 2106

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.8	11.4	17.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

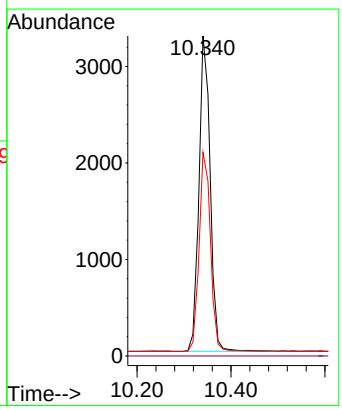


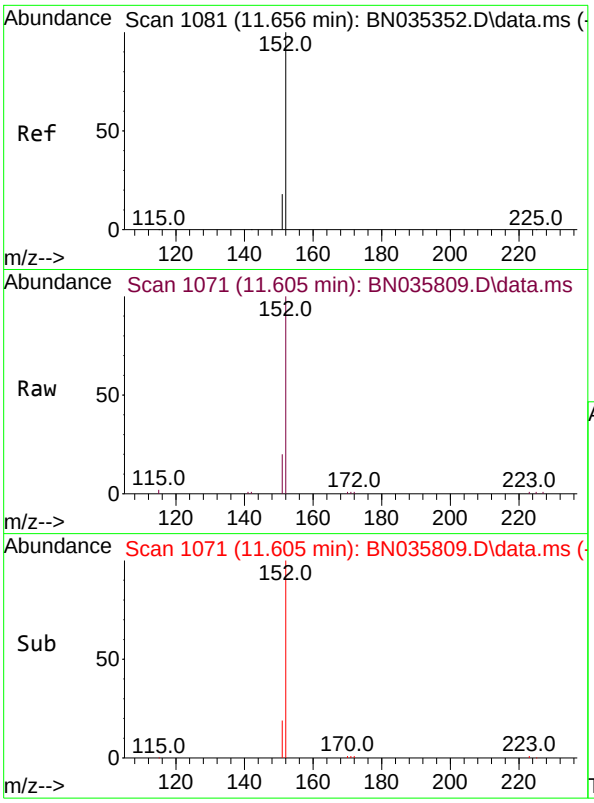


#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:225 Resp: 5424

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

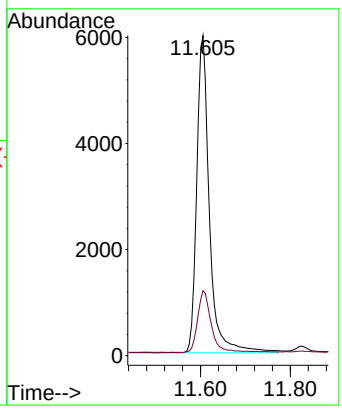
Tgt Ion:152 Resp: 1167

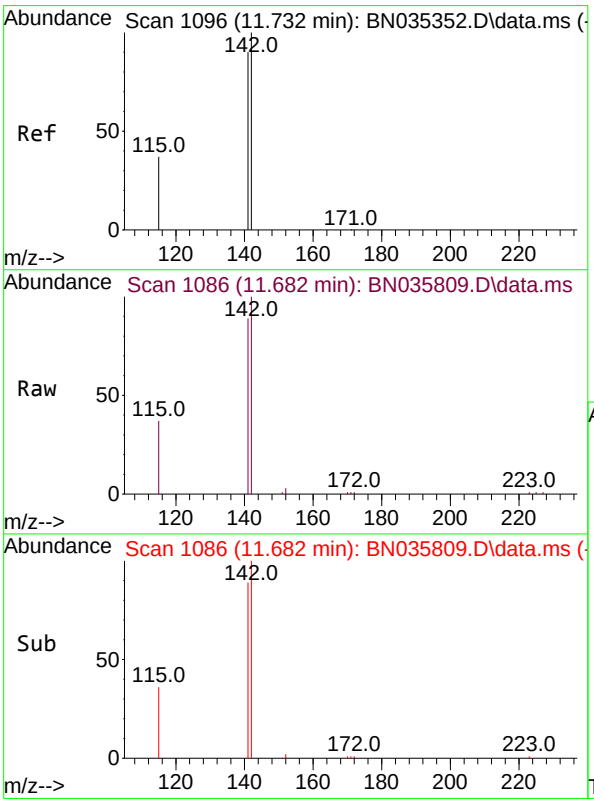
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

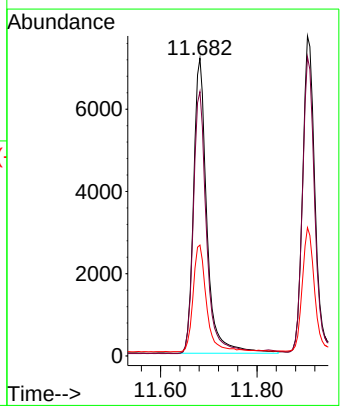


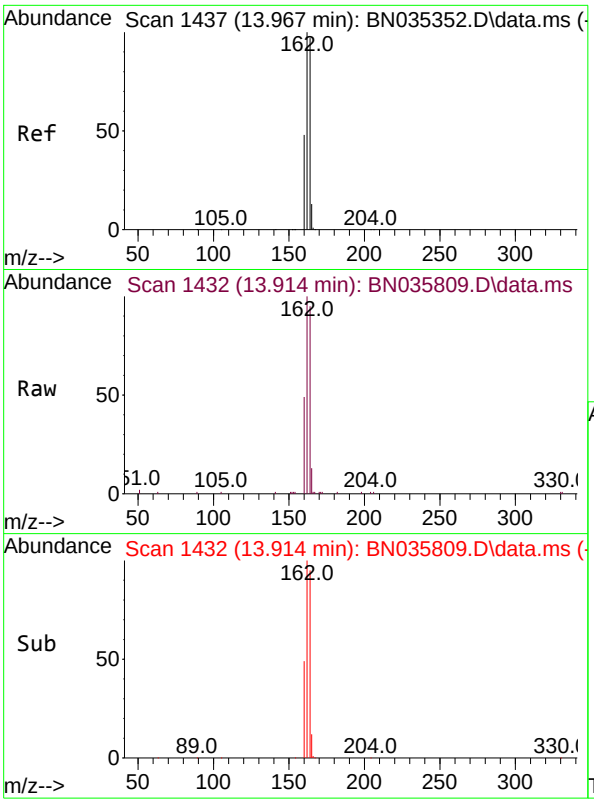


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:142 Resp: 13794

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.2	31.4	47.0

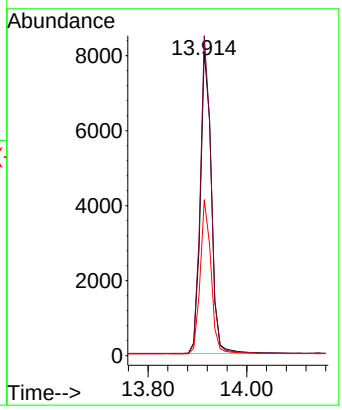




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:164 Resp: 1245

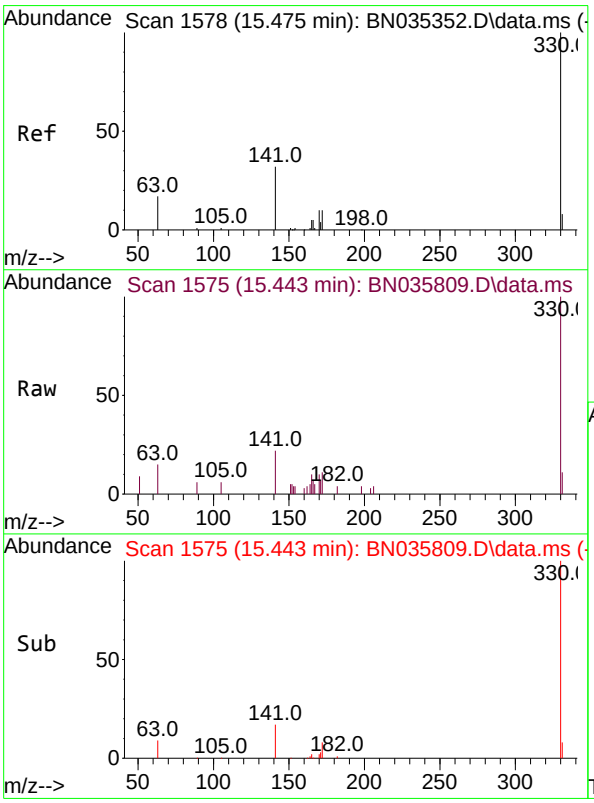
Ion	Ratio	Lower	Upper
164	100		
162	104.9	82.2	123.2
160	51.2	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

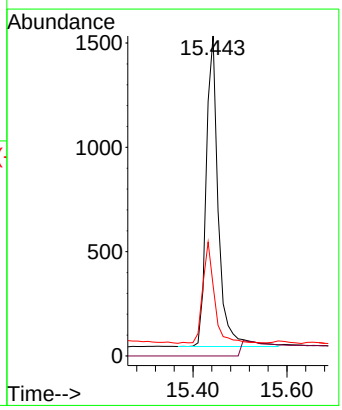
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

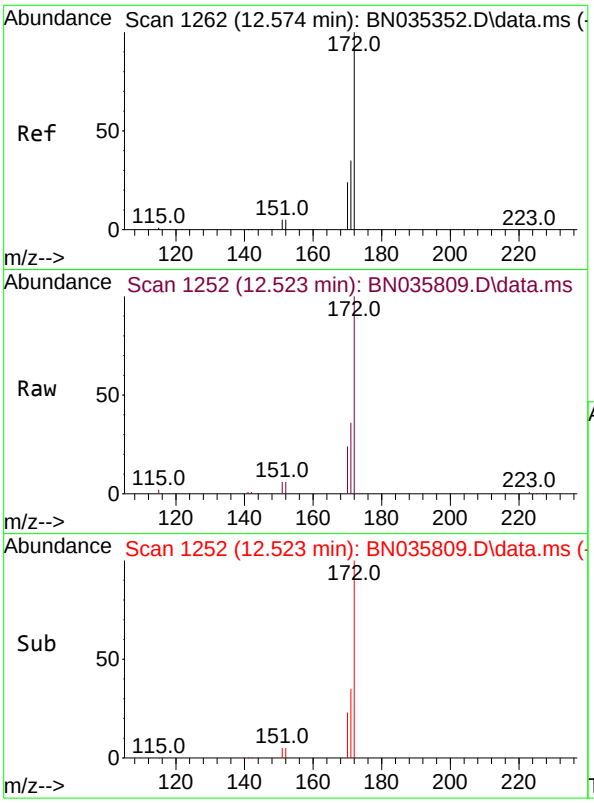


#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:330 Resp: 2792

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.9	26.6	40.0

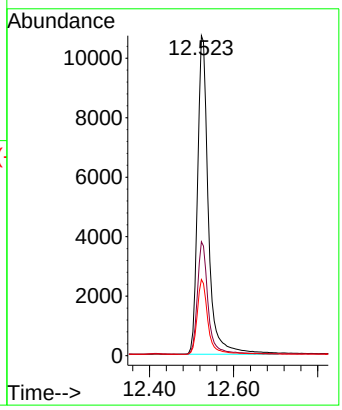




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:172 Resp: 1912

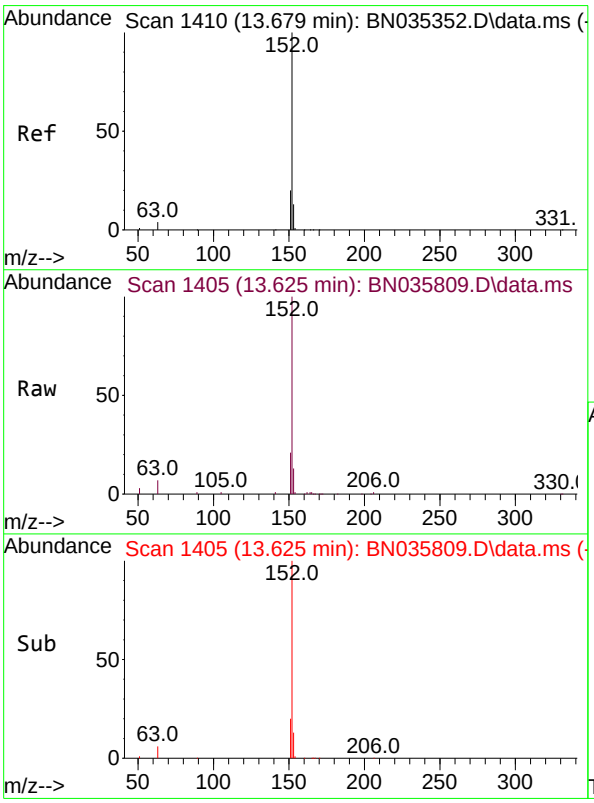
Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	23.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

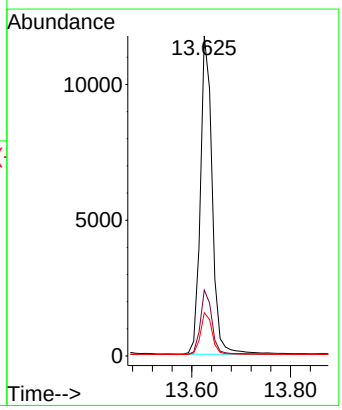
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

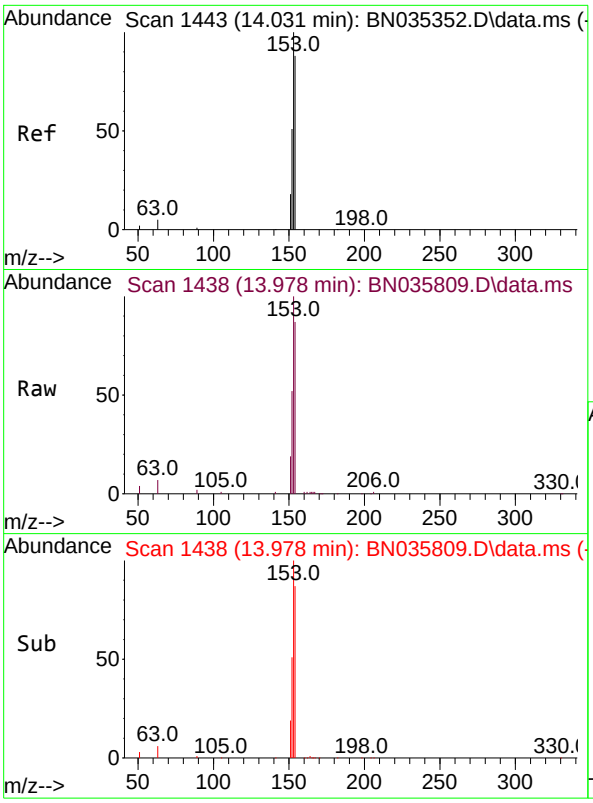


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:152 Resp: 19447

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6

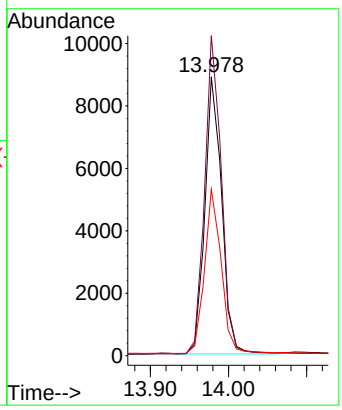




#17
Acenaphthene
Concen: 0.382 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:154 Resp: 1325(

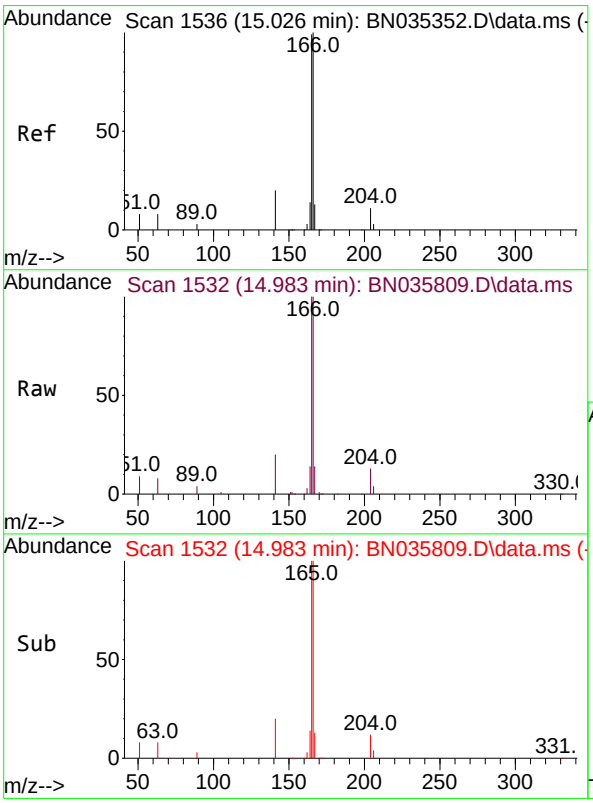
Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	59.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

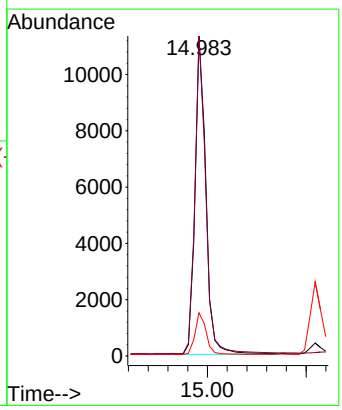
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

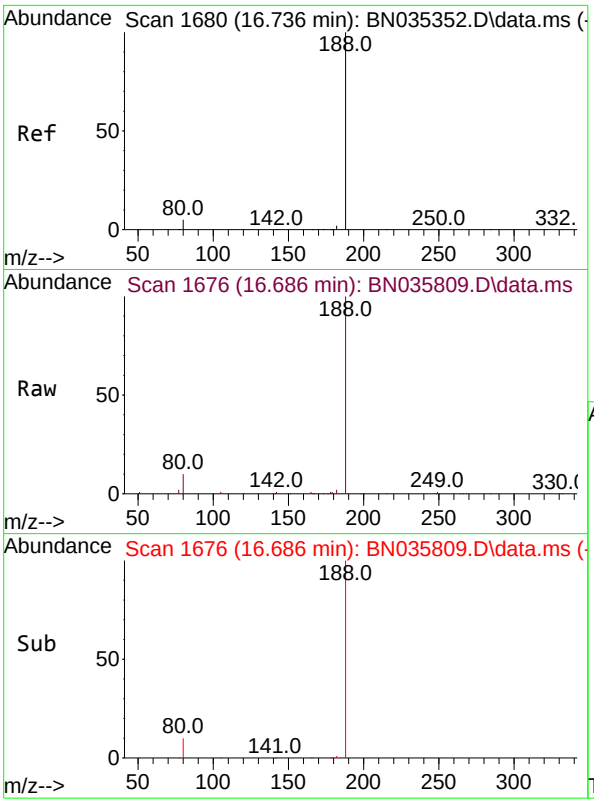


#18
Fluorene
Concen: 0.348 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:166 Resp: 17299

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	13.4	10.8	16.2

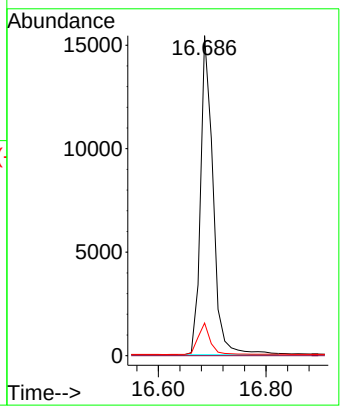




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:188 Resp: 2492

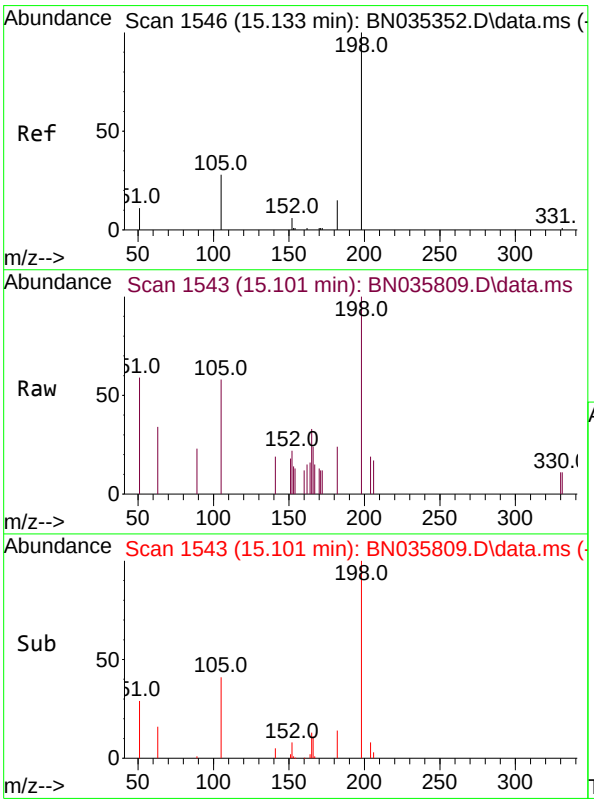
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

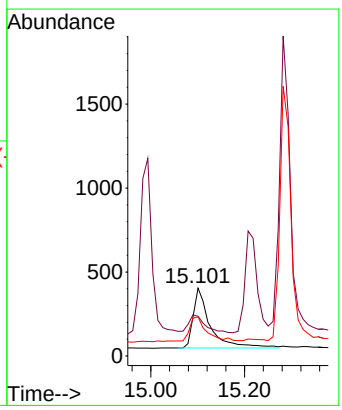
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

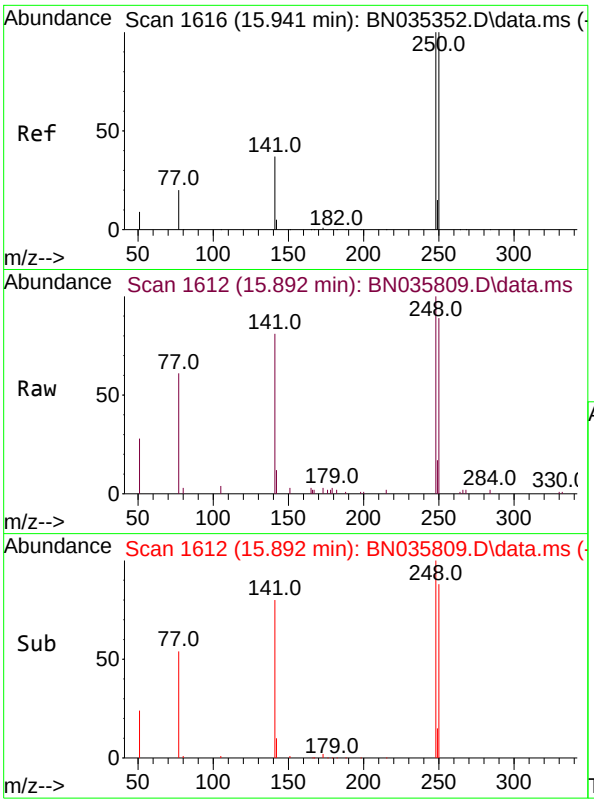


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.101 min Scan# 1543
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:198 Resp: 892

Ion	Ratio	Lower	Upper
198	100		
51	58.7	46.5	69.7
105	57.9	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.892 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

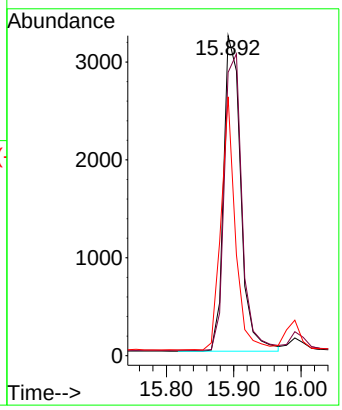
Tgt Ion:248 Resp: 571

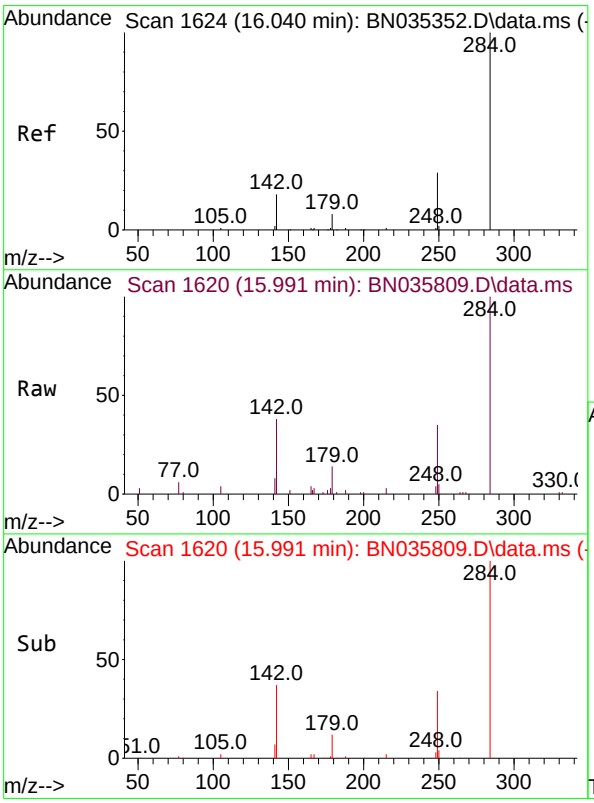
Ion	Ratio	Lower	Upper
248	100		
250	88.5	80.6	120.8
141	80.9	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

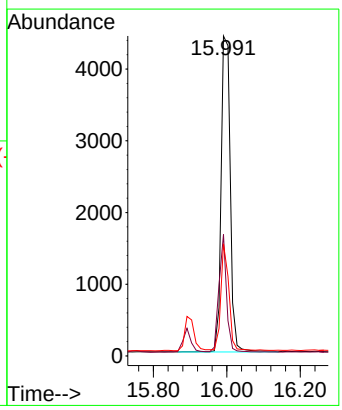


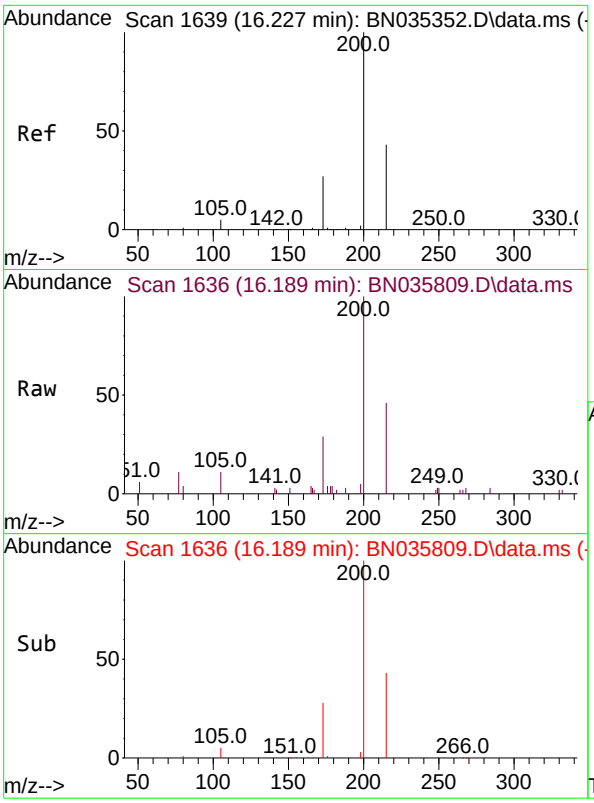


#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:284 Resp: 7638

Ion	Ratio	Lower	Upper
284	100		
142	31.3	26.7	40.1
249	29.6	24.6	36.8





#23
Atrazine
Concen: 0.381 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

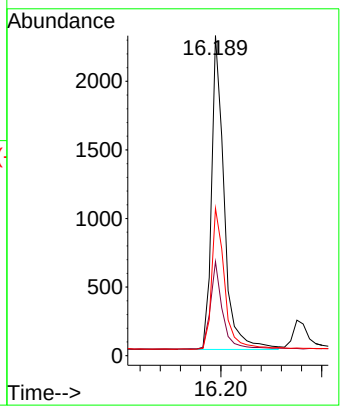
Tgt Ion:200 Resp: 395

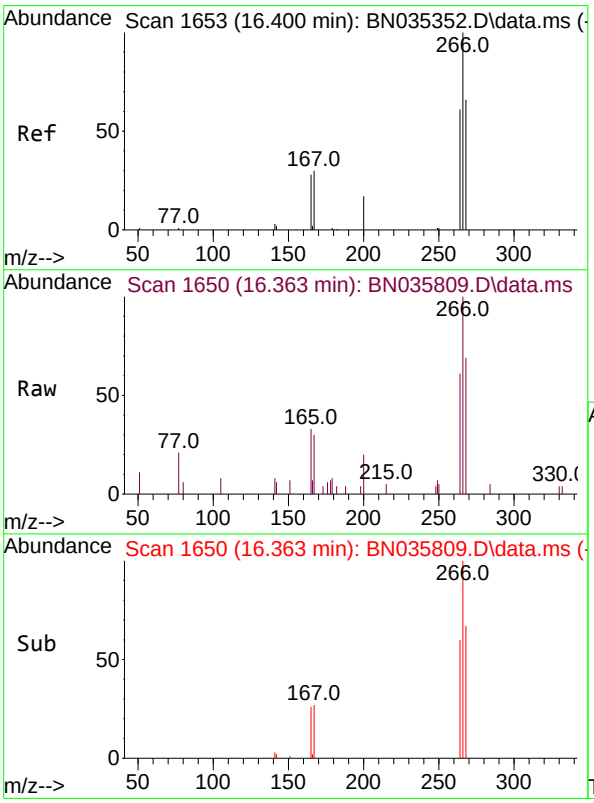
Ion	Ratio	Lower	Upper
200	100		
173	29.4	24.1	36.1
215	46.0	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

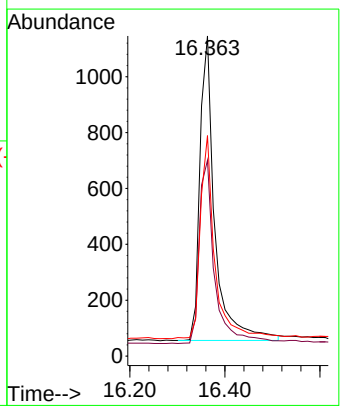


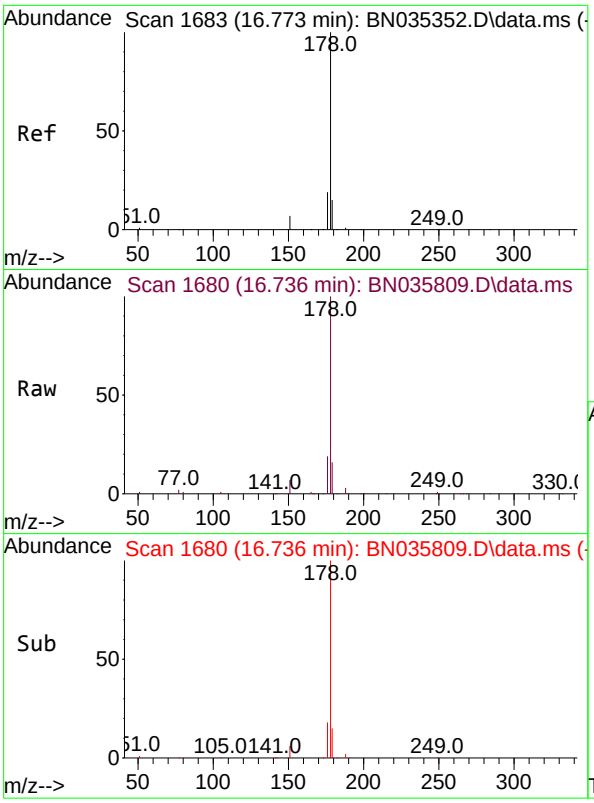


#24
Pentachlorophenol
Concen: 0.318 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:266 Resp: 2368

Ion	Ratio	Lower	Upper
266	100		
264	62.2	42.3	63.5
268	65.5	43.3	64.9#

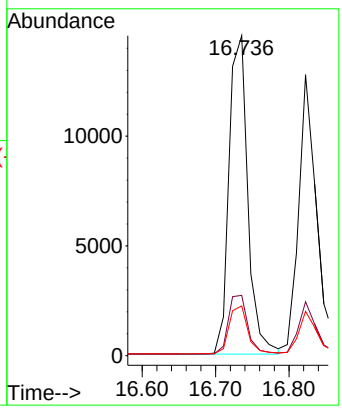




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:178 Resp: 2578

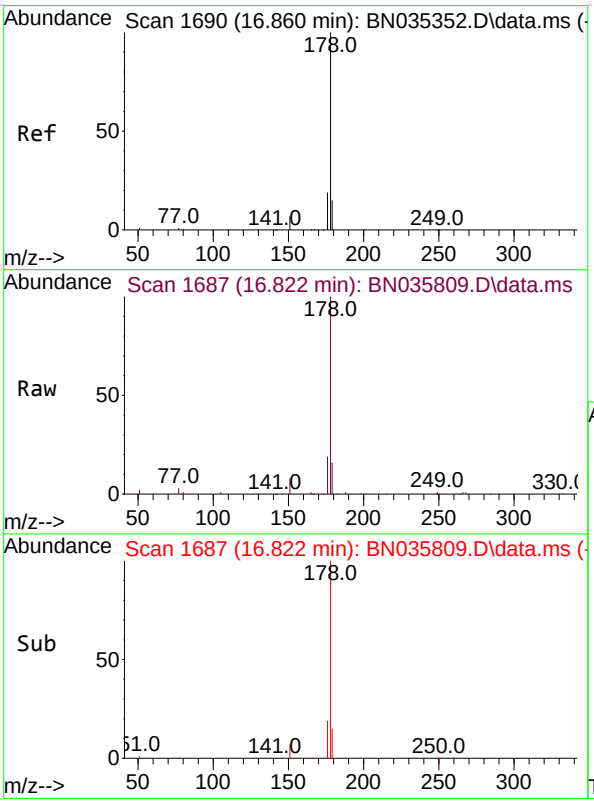
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

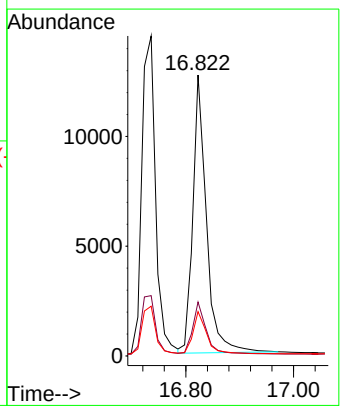
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

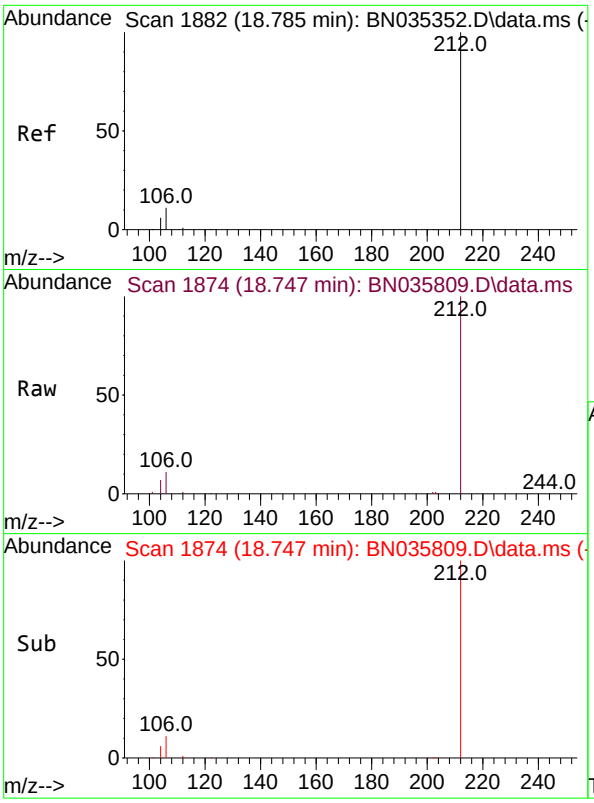


#26
Anthracene
Concen: 0.360 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:178 Resp: 22279

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.4	12.6	18.8

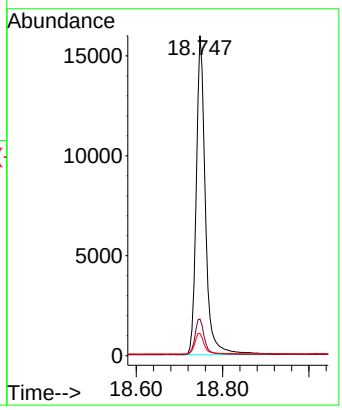




#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:212 Resp: 2360

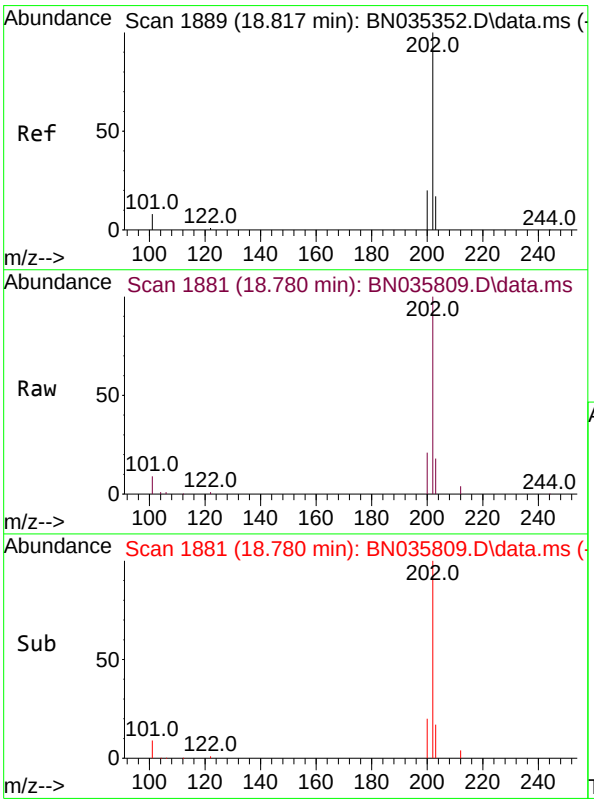
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

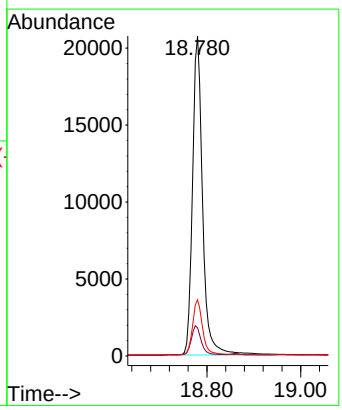
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

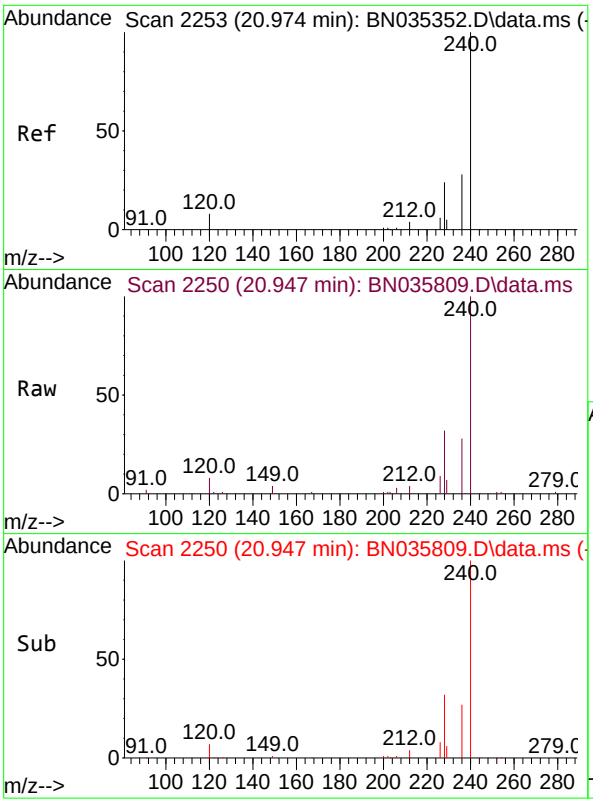


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 31096

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.9	13.7	20.5

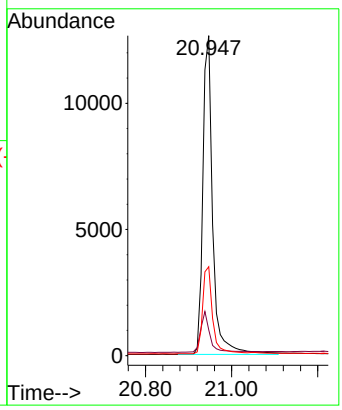




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:240 Resp: 2019

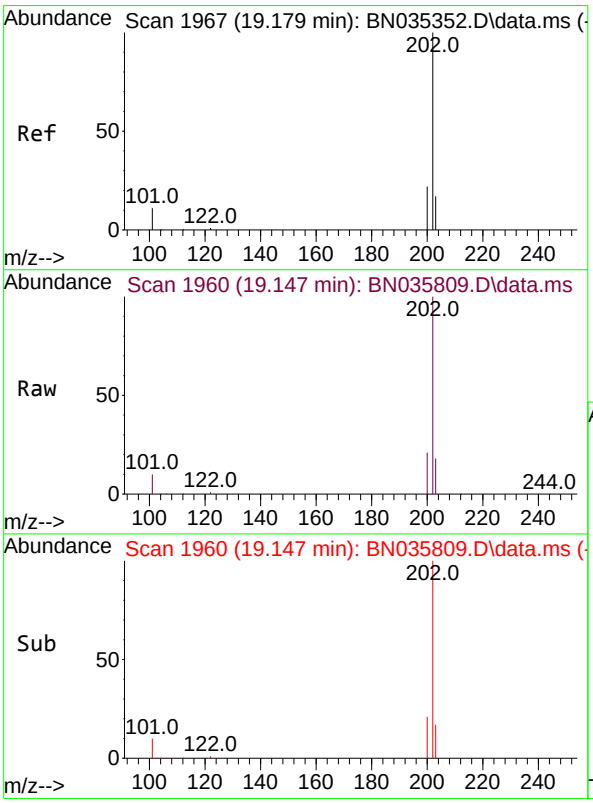
Ion	Ratio	Lower	Upper
240	100		
120	8.0	7.9	11.9
236	27.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

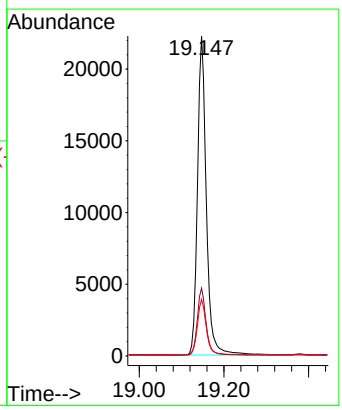
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

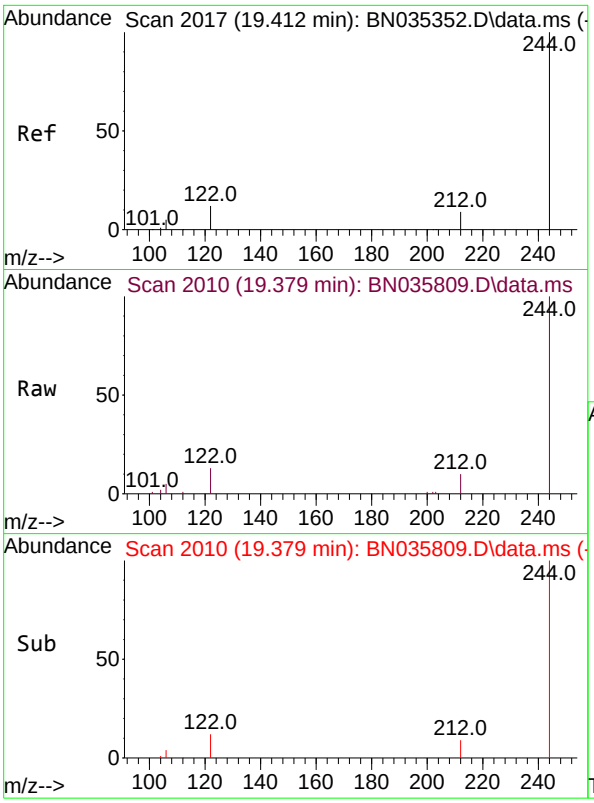


#30
Pyrene
Concen: 0.432 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 32211

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5

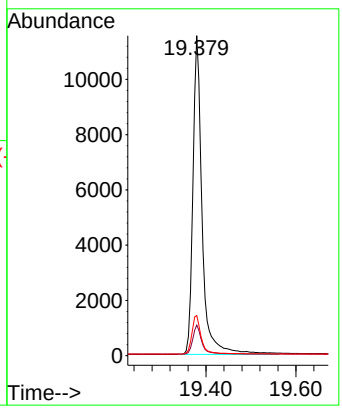




#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:244 Resp: 1650

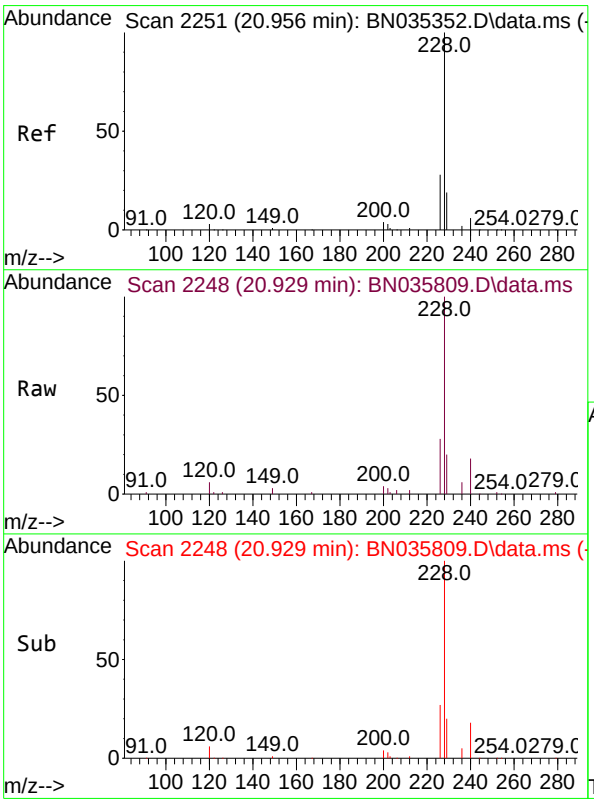
Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	12.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

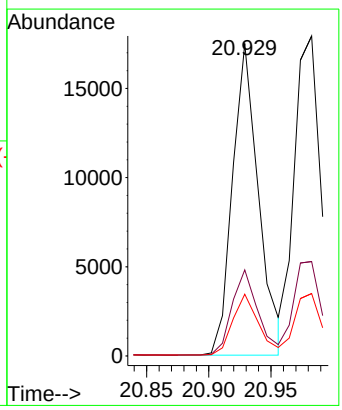
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

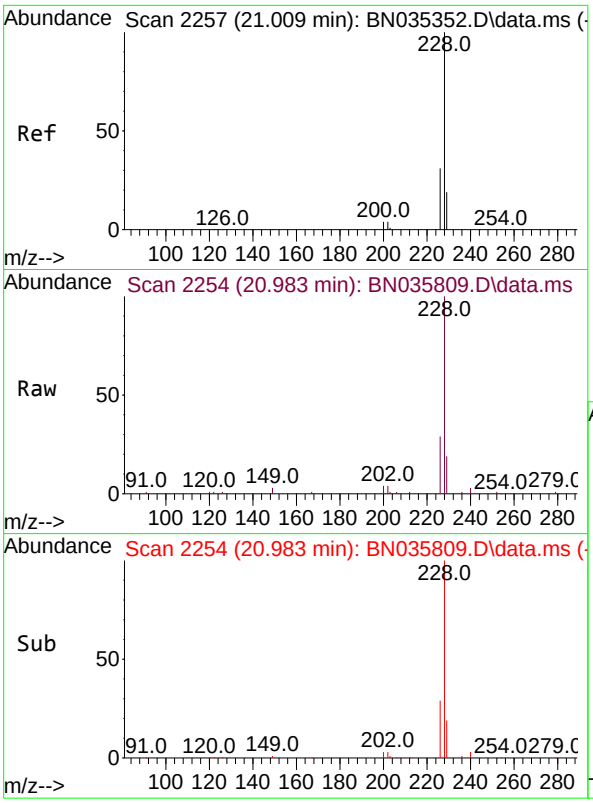


#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:228 Resp: 25428

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.8	15.8	23.8

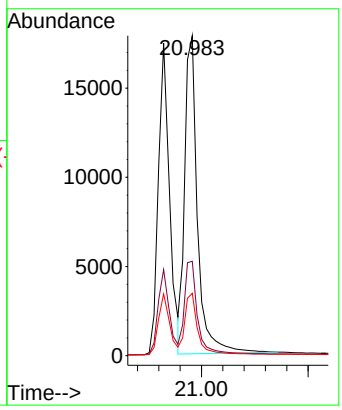




#33
Chrysene
Concen: 0.408 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:228 Resp: 2972

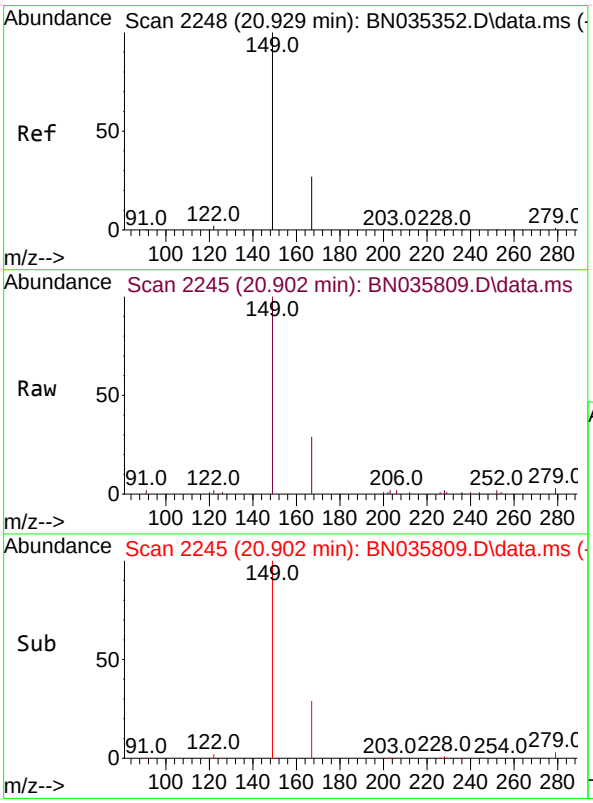
Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.6	37.0
229	19.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

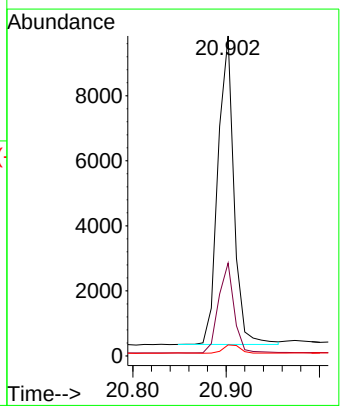
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

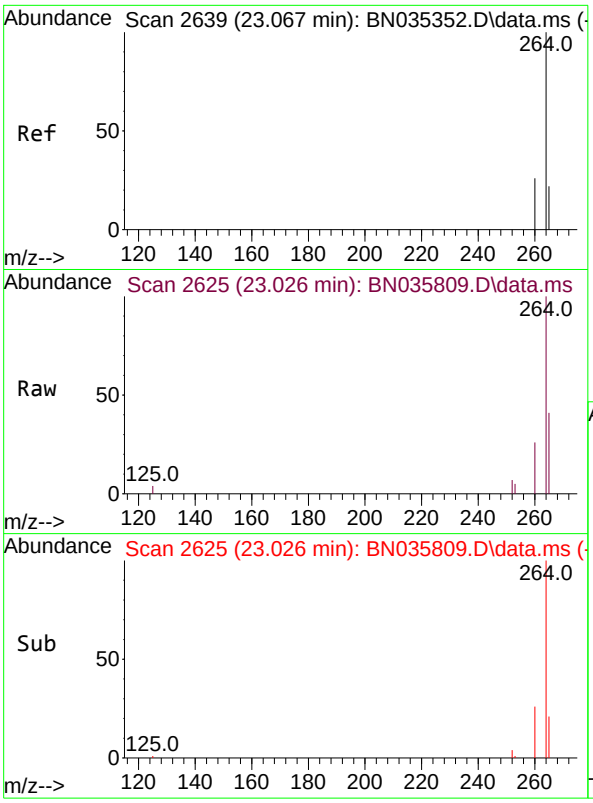


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:149 Resp: 11220

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	2.9	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

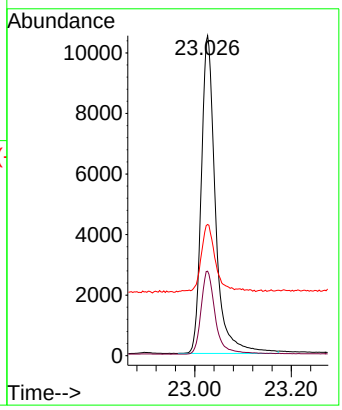
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

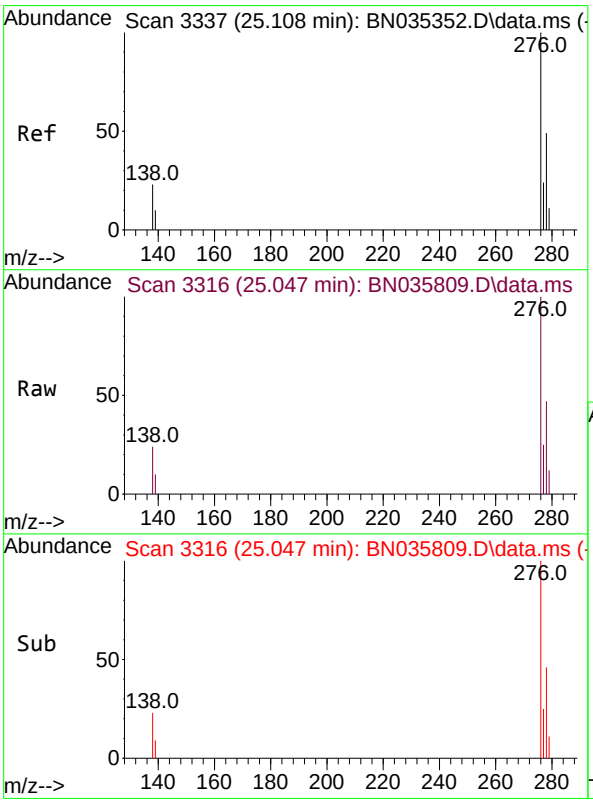
Tgt Ion:264 Resp: 2143

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.4	32.2
265	41.0	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

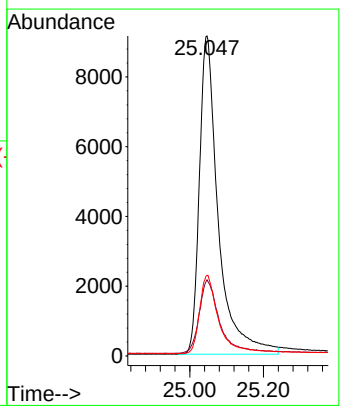


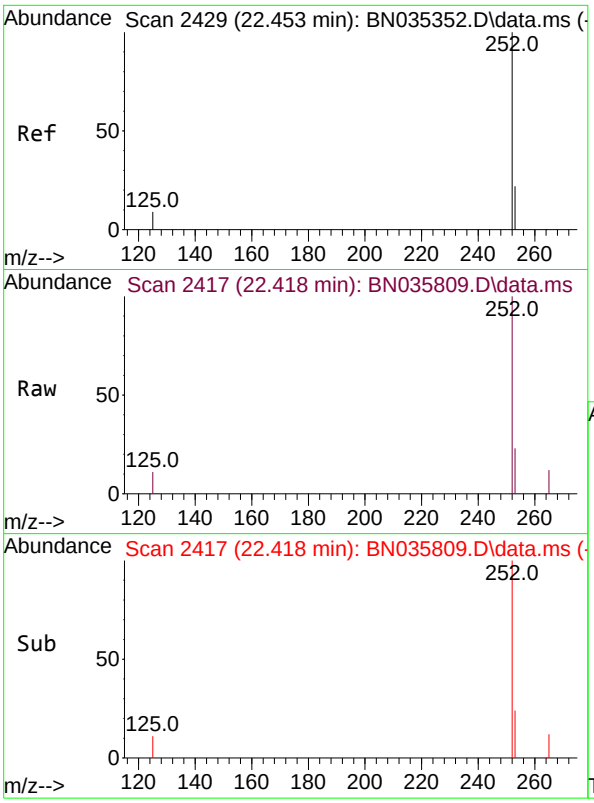


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:276 Resp: 32558

Ion	Ratio	Lower	Upper
276	100		
138	24.5	19.4	29.0
277	24.7	19.8	29.6

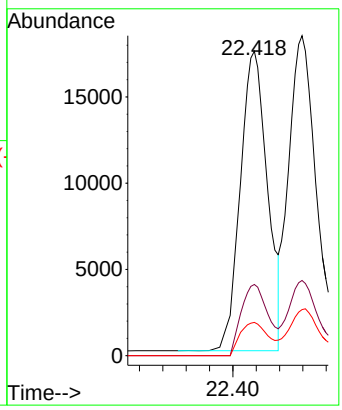




#37
Benzo(b)fluoranthene
Concen: 0.559 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:252 Resp: 4386

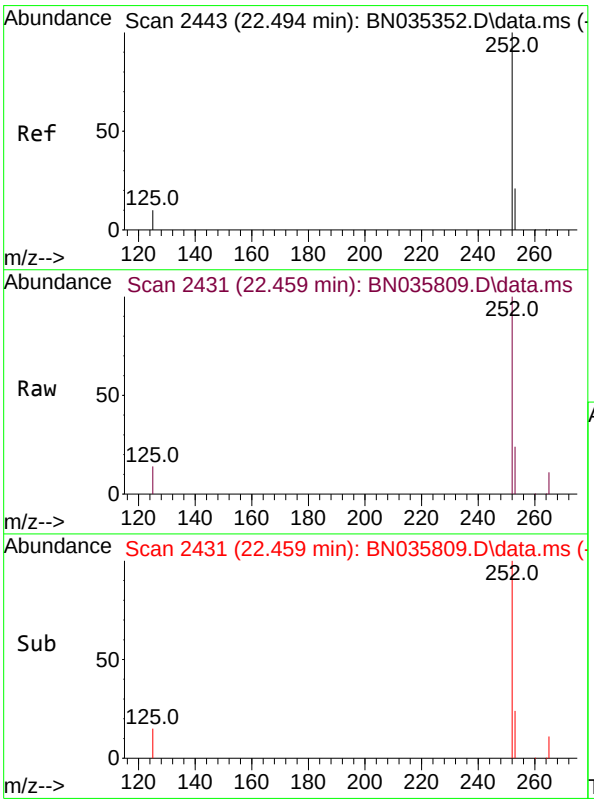
Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.6	29.4
125	10.9	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

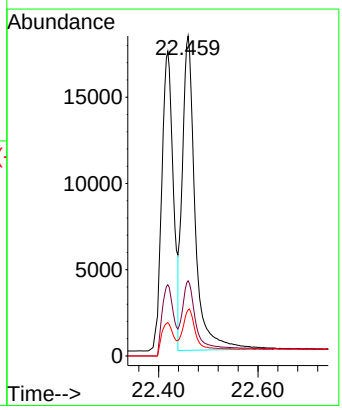
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

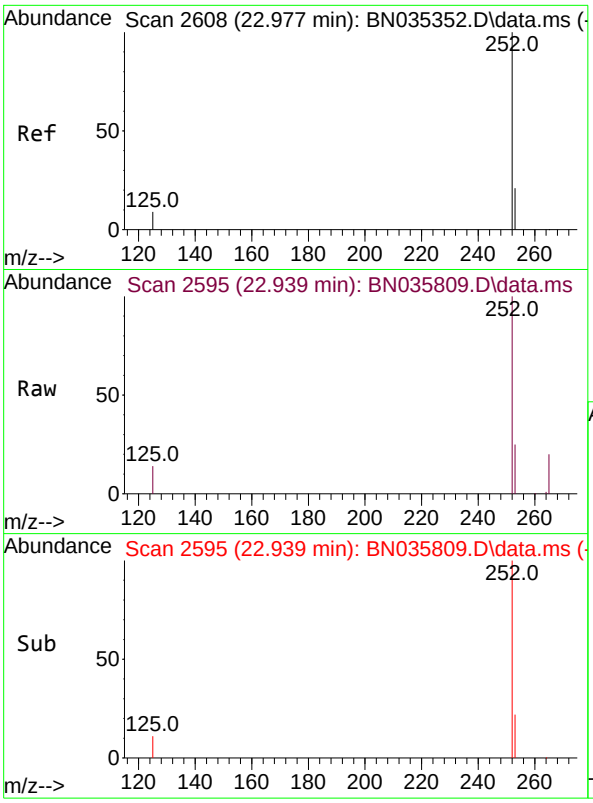


#38
Benzo(k)fluoranthene
Concen: 0.426 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:252 Resp: 32848

Ion	Ratio	Lower	Upper
252	100		
253	23.5	19.5	29.3
125	14.4	10.2	15.4

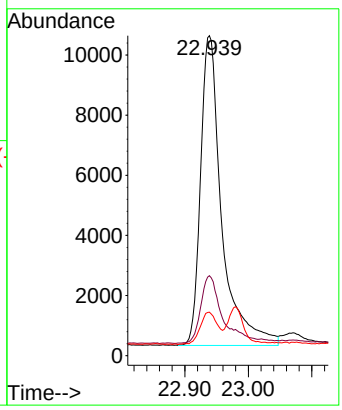




#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:252 Resp: 2395

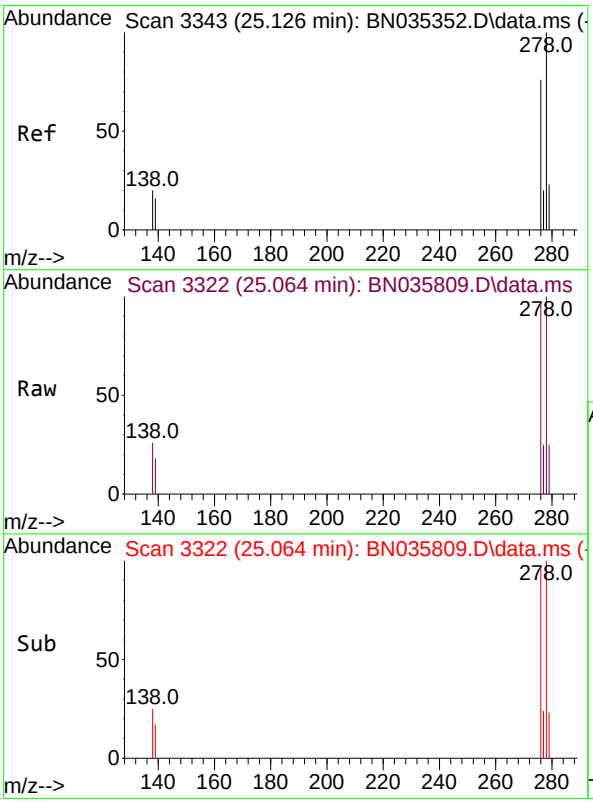
Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.2	30.4
125	13.6	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

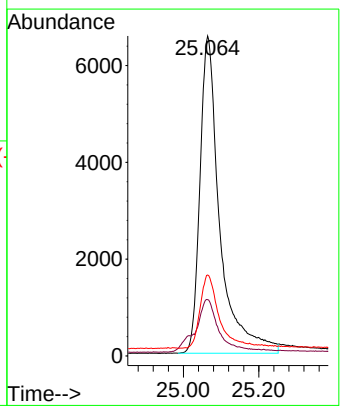
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

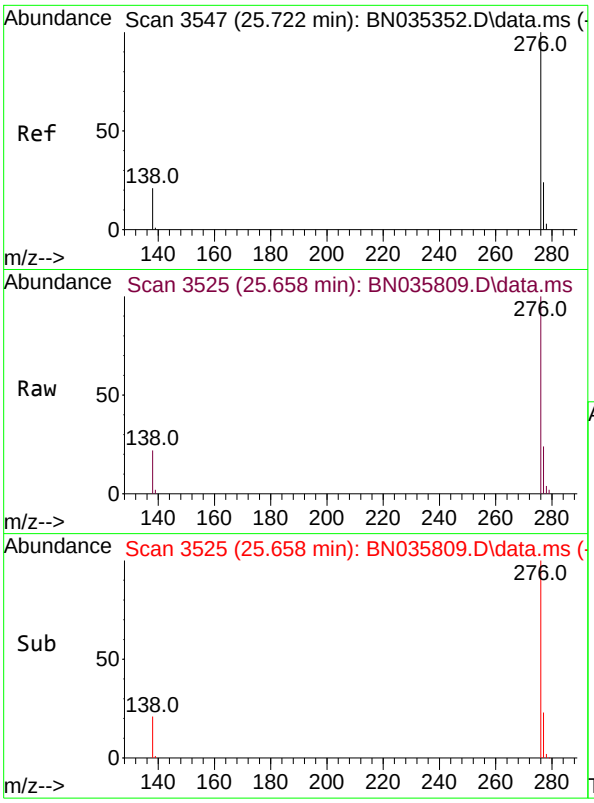


#40
Dibenzo(a,h)anthracene
Concen: 0.364 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:278 Resp: 24090

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.3	20.5	30.7

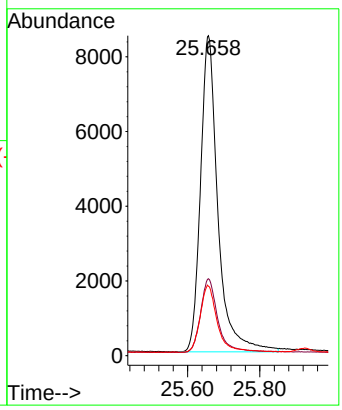




#41
Benzo(g,h,i)perylene
Concen: 0.410 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:276 Resp: 2835

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Sample Results: **BN035809.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035809.D
Acq On : 24 Dec 2024 07:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 93 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 07:43:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	408#	-0.01
2		1,4-Dioxane	0.382	0.382	0.0	415#	0.00
3		n-Nitrosodimethylamine	0.319	0.320	-0.3	400#	-0.01
4	S	2-Fluorophenol	1.001	0.946	5.5	379#	-0.01
5	S	Phenol-d6	1.204	1.086	9.8	372#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.940	7.1	387#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	397#	-0.02
8	S	Nitrobenzene-d5	0.244	0.307	-25.8#	519#	-0.01
9		Naphthalene	1.055	1.015	3.8	385#	-0.01
10		Hexachlorobutadiene	0.243	0.261	-7.4	420#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.563	10.1	361#	-0.02
12		2-Methylnaphthalene	0.755	0.665	11.9	357#	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	328#	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.224	21.1	286#	-0.01
15	S	2-Fluorobiphenyl	1.512	1.535	-1.5	333#	-0.02
16		Acenaphthylene	1.680	1.561	7.1	321#	-0.02
17		Acenaphthene	1.115	1.064	4.6	321#	-0.02
18		Fluorene	1.596	1.389	13.0	295#	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	263#	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	265#	-0.02
21		4-Bromophenyl-phenylether	0.234	0.229	2.1	266#	-0.02
22		Hexachlorobenzene	0.275	0.306	-11.3	295#	-0.02
23		Atrazine	0.167	0.159	4.8	271#	-0.01
24		Pentachlorophenol	0.120	0.095	20.8	261#	-0.01
25		Phenanthrene	1.099	1.035	5.8	255#	-0.01
26		Anthracene	0.994	0.894	10.1	250#	-0.01
27	SURR	Fluoranthene-d10	1.134	0.947	16.5	231#	-0.01
28		Fluoranthene	1.481	1.248	15.7	231#	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	212#	0.00
30		Pyrene	1.477	1.595	-8.0	229#	-0.01
31	S	Terphenyl-d14	0.789	0.817	-3.5	219#	0.00
32		Benzo(a)anthracene	1.399	1.259	10.0	197#	0.00
33		Chrysene	1.443	1.472	-2.0	216#	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.556	-0.5	228#	0.00
35	I	Perylene-d12	1.000	1.000	0.0	198#	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.519	2.9	196#	-0.02
37		Benzo(b)fluoranthene	1.463	2.047	-39.9#	308#	-0.01
38		Benzo(k)fluoranthene	1.440	1.533	-6.5	216#	-0.01
39	C	Benzo(a)pyrene	1.205	1.118	7.2	193#	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.124	8.9	186#	-0.02
41		Benzo(g,h,i)perylene	1.289	1.323	-2.6	210#	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035809.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035809.D
Acq On : 24 Dec 2024 07:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 93 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 07:43:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	408	-0.01
2		1,4-Dioxane	0.400	0.400	0.0	415	0.00
3		n-Nitrosodimethylamine	0.400	0.401	-0.3	400	-0.01
4	S	2-Fluorophenol	0.400	0.378	5.5	379	-0.01
5	S	Phenol-d6	0.400	0.361	9.8	372	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.372	7.0	387	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	397	-0.02
8	S	Nitrobenzene-d5	0.400	0.503	-25.7#	519	-0.01
9		Naphthalene	0.400	0.385	3.8	385	-0.01
10		Hexachlorobutadiene	0.400	0.430	-7.5	420	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	361	-0.02
12		2-Methylnaphthalene	0.400	0.352	12.0	357	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	328	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.316	21.0	286	-0.01
15	S	2-Fluorobiphenyl	0.400	0.406	-1.5	333	-0.02
16		Acenaphthylene	0.400	0.372	7.0	321	-0.02
17		Acenaphthene	0.400	0.382	4.5	321	-0.02
18		Fluorene	0.400	0.348	13.0	295	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	263	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	265	-0.02
21		4-Bromophenyl-phenylether	0.400	0.392	2.0	266	-0.02
22		Hexachlorobenzene	0.400	0.446	-11.5	295	-0.02
23		Atrazine	0.400	0.381	4.8	271	-0.01
24		Pentachlorophenol	0.400	0.318	20.5	261	-0.01
25		Phenanthrene	0.400	0.377	5.8	255	-0.01
26		Anthracene	0.400	0.360	10.0	250	-0.01
27	SURR	Fluoranthene-d10	0.400	0.334	16.5	231	-0.01
28		Fluoranthene	0.400	0.337	15.8	231	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	212	0.00
30		Pyrene	0.400	0.432	-8.0	229	-0.01
31	S	Terphenyl-d14	0.400	0.414	-3.5	219	0.00
32		Benzo(a)anthracene	0.400	0.360	10.0	197	0.00
33		Chrysene	0.400	0.408	-2.0	216	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	228	0.00
35	I	Perylene-d12	0.400	0.400	0.0	198	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	196	-0.02
37		Benzo(b)fluoranthene	0.400	0.559	-39.8#	308	-0.01
38		Benzo(k)fluoranthene	0.400	0.426	-6.5	216	-0.01
39	C	Benzo(a)pyrene	0.400	0.371	7.3	193	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.364	9.0	186	-0.02
41		Benzo(g,h,i)perylene	0.400	0.410	-2.5	210	-0.02

(#) = 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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 08:59

Lab File ID: BN035811.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.541		-13.6	20.0
Fluoranthene-d10	1.134	0.953		-16.0	20.0
2-Fluorophenol	1.001	0.931		-7.0	20.0
Phenol-d6	1.204	1.289		7.1	20.0
Nitrobenzene-d5	0.244	0.285		16.8	20.0
2-Fluorobiphenyl	1.512	1.523		0.7	20.0
2,4,6-Tribromophenol	0.284	0.214		-24.6	20.0
Terphenyl-d14	0.789	0.804		1.9	20.0
1,4-Dioxane	0.382	0.457		19.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng		0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng		-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8569	0.400	ng		0.00
35) Perylene-d12	23.029	264	8879	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3699	0.372	ng		-0.01
5) Phenol-d6	6.470	99	5118	0.428	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2707m	0.467	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5128	0.346	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1155	0.302	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8203	0.403	ng		-0.01
27) Fluoranthene-d10	18.752	212	10340	0.336	ng		0.00
31) Terphenyl-d14	19.384	244	6888	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1814	0.478	ng		98
3) n-Nitrosodimethylamine	3.270	42	1302	0.412	ng	#	91
6) bis(2-Chloroethyl)ether	6.715	93	3672	0.366	ng		99
9) Naphthalene	10.052	128	9671	0.387	ng		99
10) Hexachlorobutadiene	10.340	225	2548	0.442	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6060	0.338	ng		100
16) Acenaphthylene	13.636	152	8415	0.372	ng		100
17) Acenaphthene	13.978	154	5782	0.385	ng		99
18) Fluorene	14.993	166	7456	0.347	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	244	0.229	ng	#	7
21) 4-Bromophenyl-phenylether	15.904	248	2379	0.375	ng	#	93
22) Hexachlorobenzene	16.003	284	3393	0.455	ng		97
23) Atrazine	16.202	200	1640	0.363	ng		96
24) Pentachlorophenol	16.363	266	1040	0.321	ng		87
25) Phenanthrene	16.735	178	10950	0.367	ng		99
26) Anthracene	16.835	178	9488	0.352	ng		100
28) Fluoranthene	18.780	202	13421	0.334	ng		99
30) Pyrene	19.151	202	13577	0.429	ng		100
32) Benzo(a)anthracene	20.929	228	9796	0.327	ng		99
33) Chrysene	20.982	228	13234	0.428	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4719	0.399	ng		100
36) Indeno(1,2,3-cd)pyrene	25.049	276	12494	0.360	ng		99
37) Benzo(b)fluoranthene	22.418	252	16964	0.522	ng	#	95
38) Benzo(k)fluoranthene	22.459	252	13236m	0.414	ng		
39) Benzo(a)pyrene	22.939	252	10000	0.374	ng	#	91
40) Dibenzo(a,h)anthracene	25.073	278	8960	0.327	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11606	0.405	ng		99

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

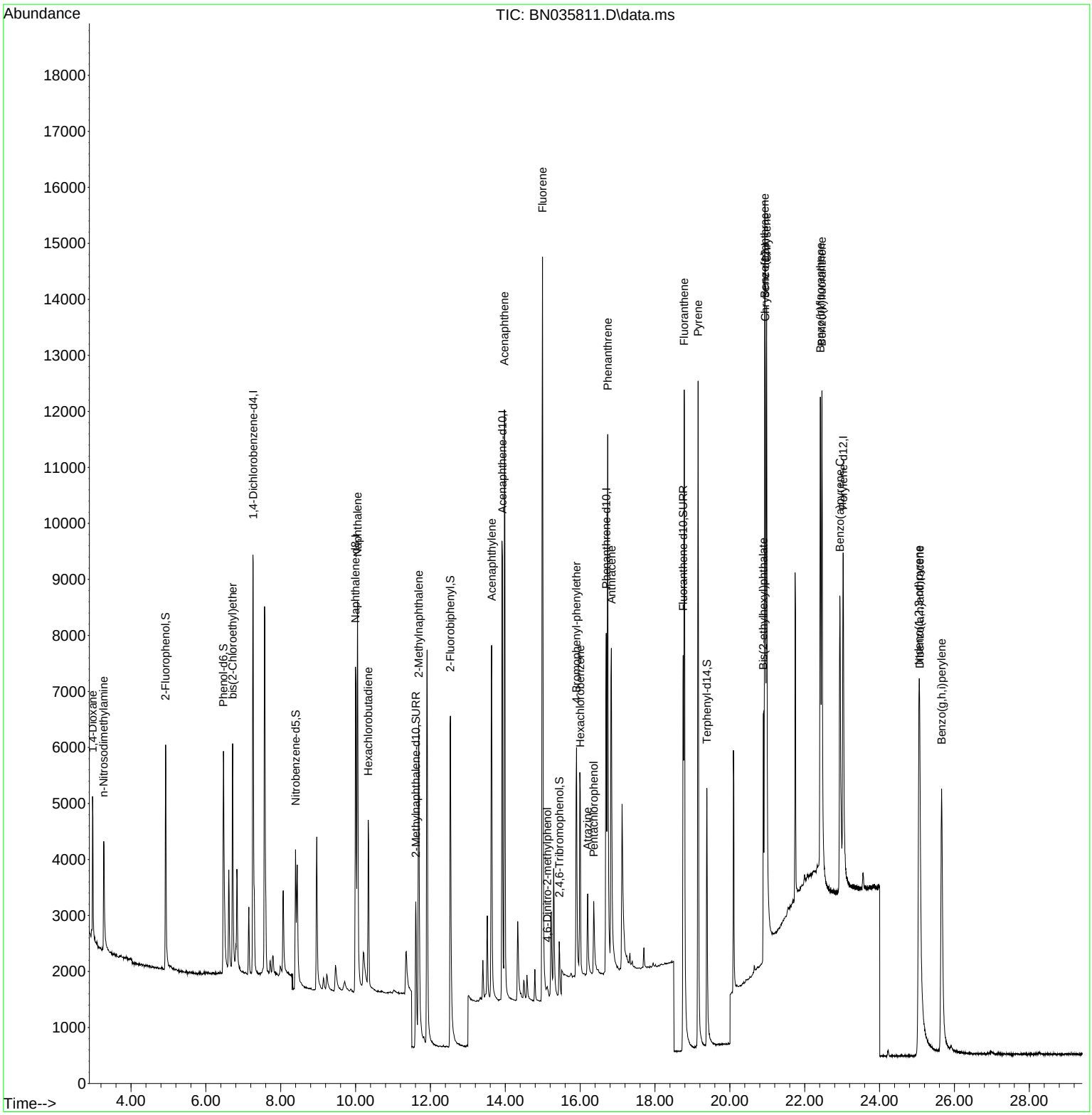
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

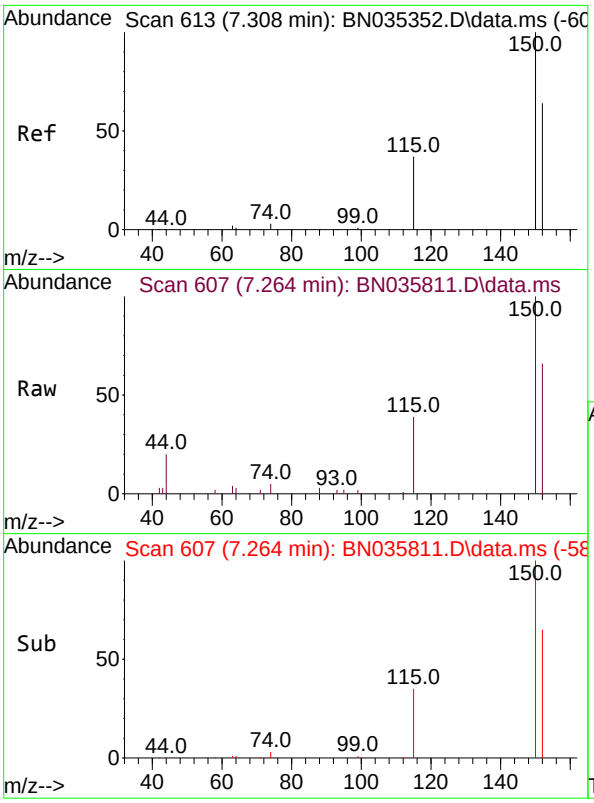
Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

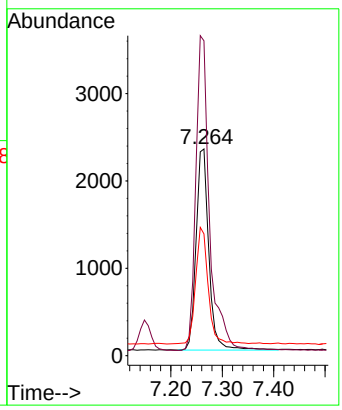




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 397

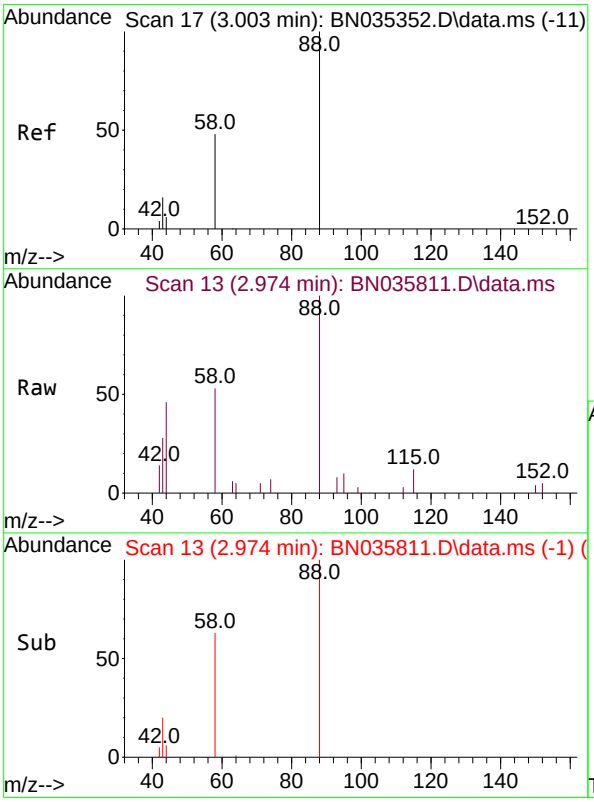
Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

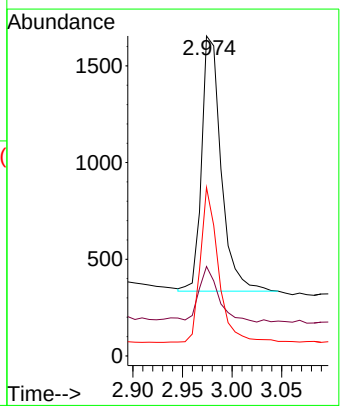
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

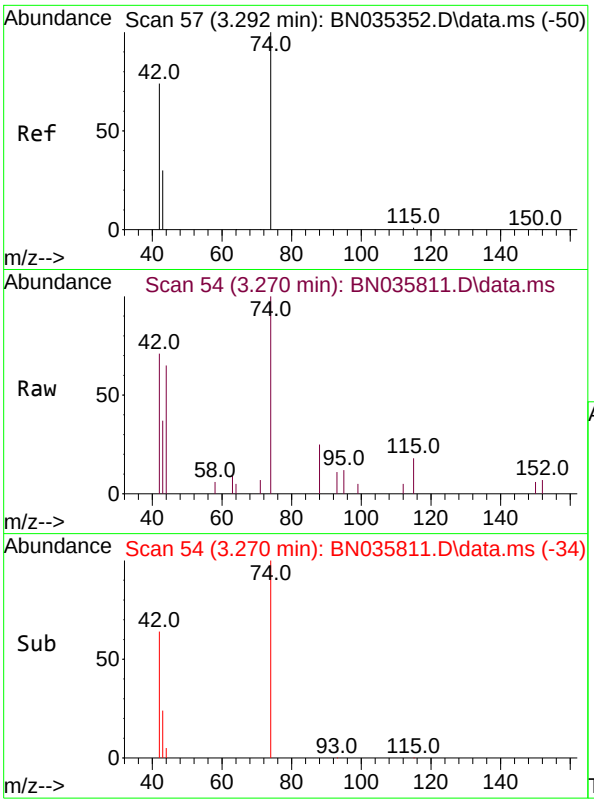


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.2	44.5	66.7

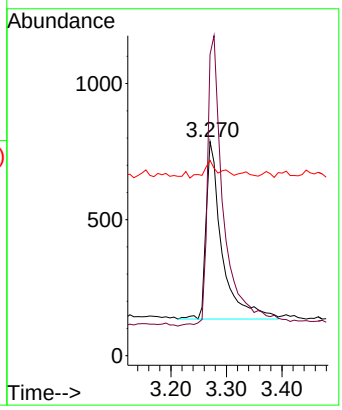




#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 42 Resp: 130

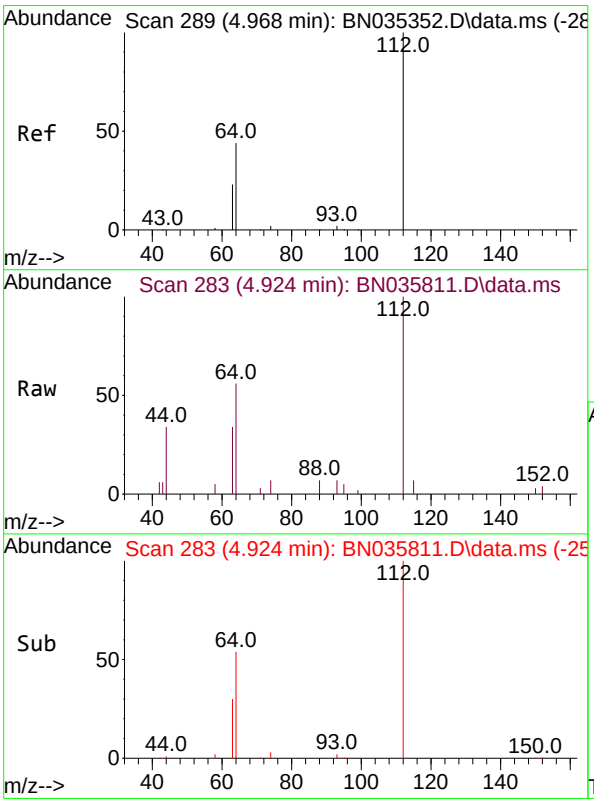
Ion	Ratio	Lower	Upper
42	100		
74	167.4	124.9	187.3
44	5.4	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

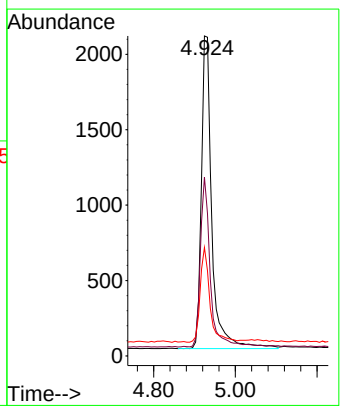
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

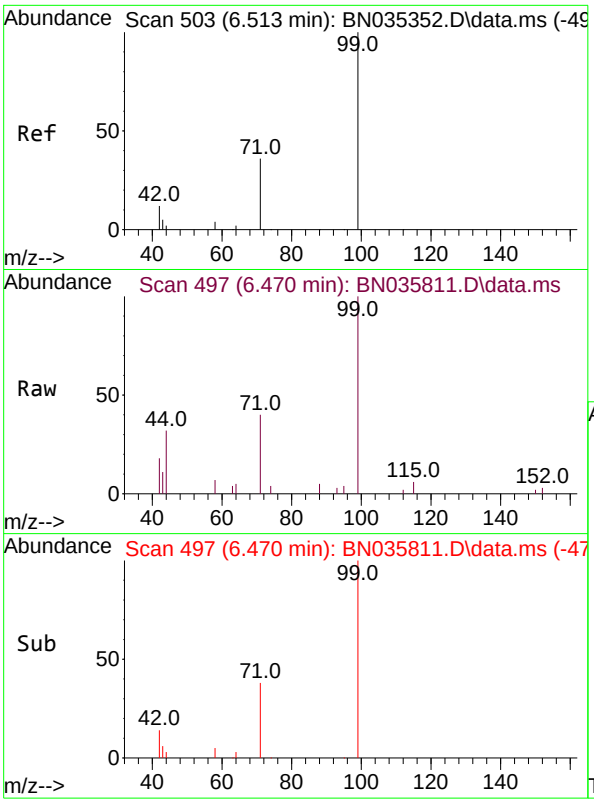


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6

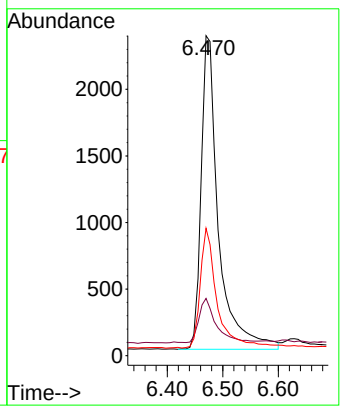




#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 99 Resp: 511

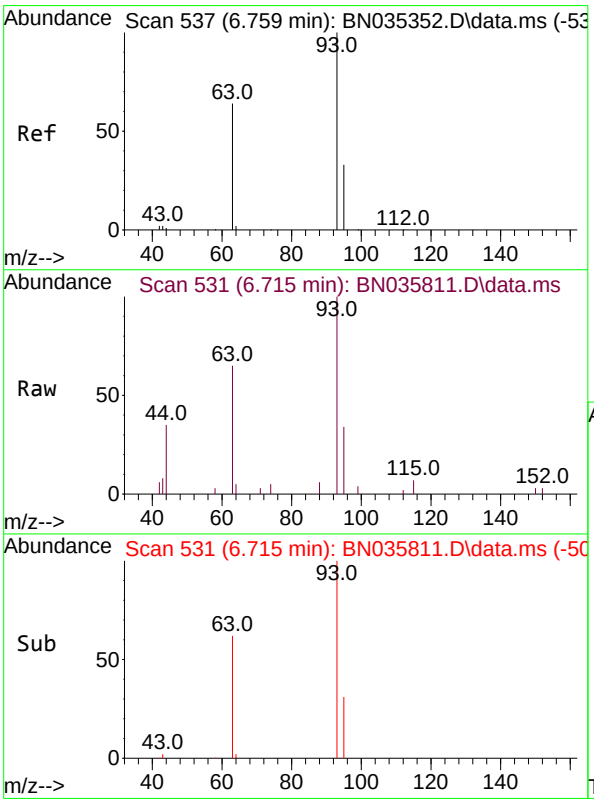
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

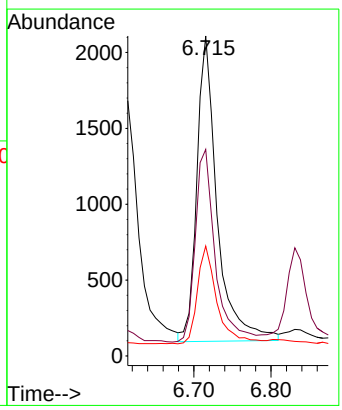
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

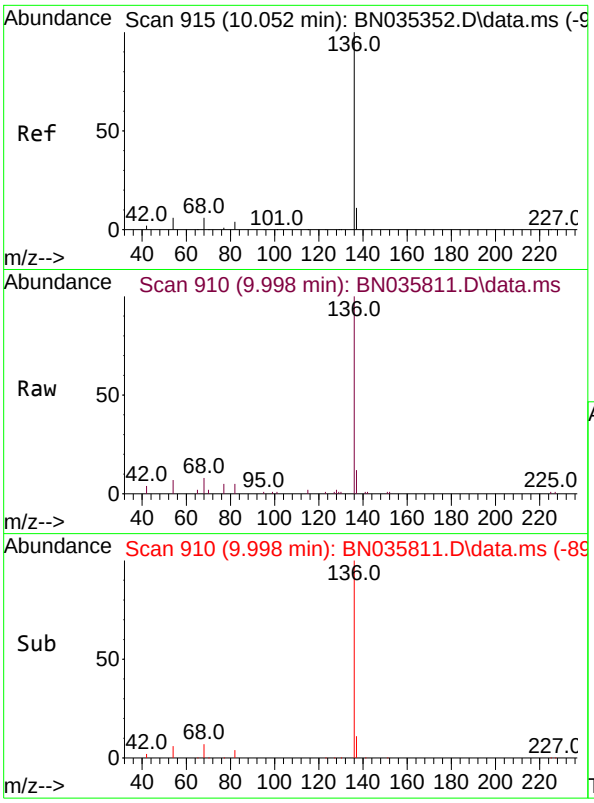


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

Ion	Ratio	Lower	Upper
93	100		
63	62.3	50.4	75.6
95	30.7	25.7	38.5

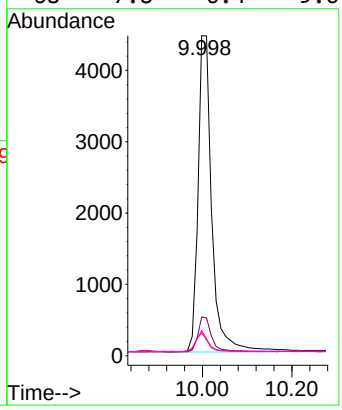




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:136 Resp: 948

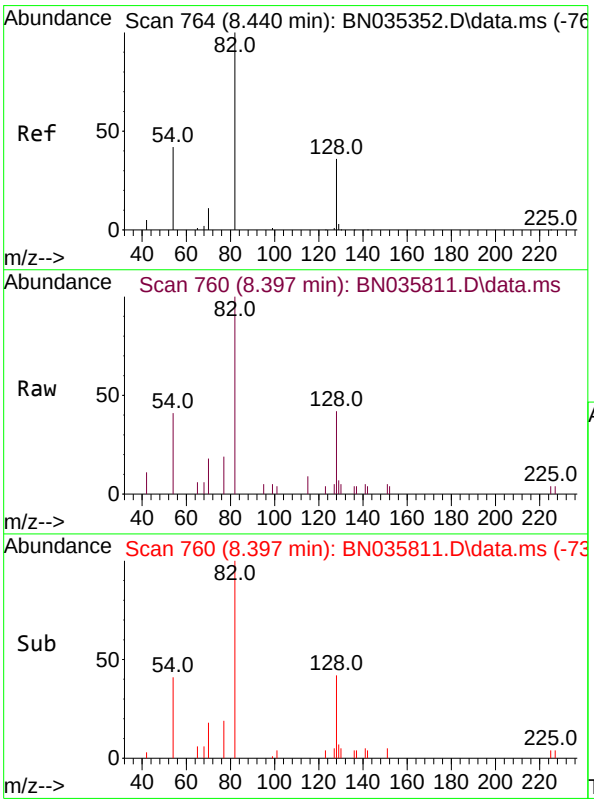
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.1	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

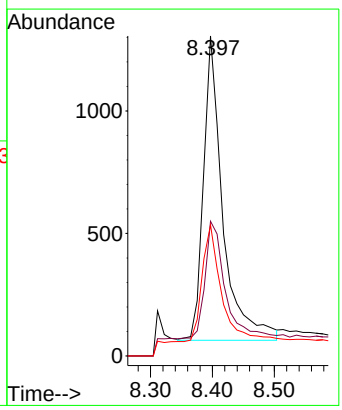
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

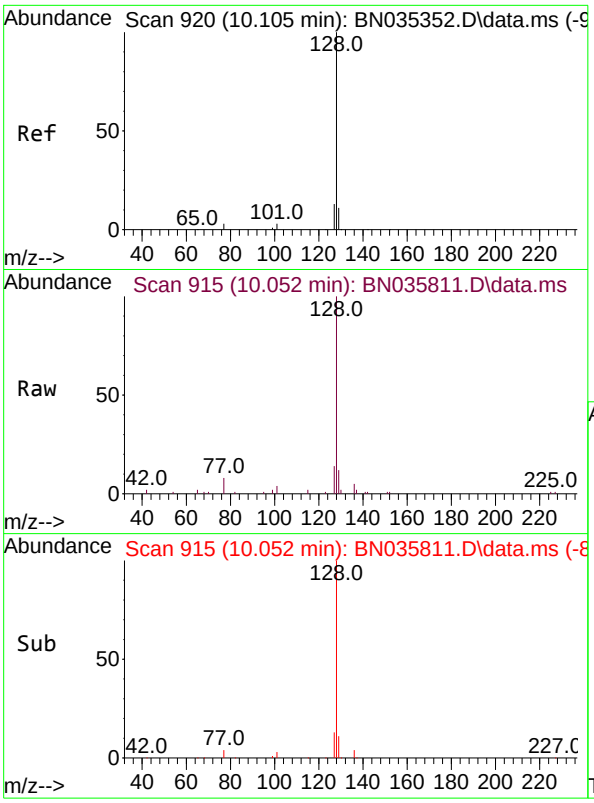


#8
Nitrobenzene-d5
Concen: 0.467 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 2707

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	41.0	36.7	55.1

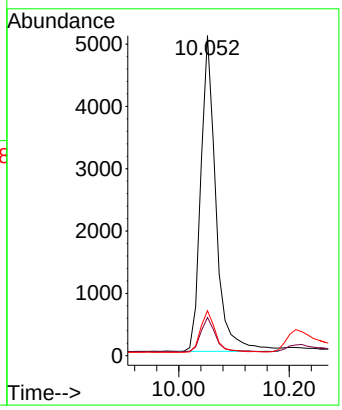




#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:128 Resp: 967

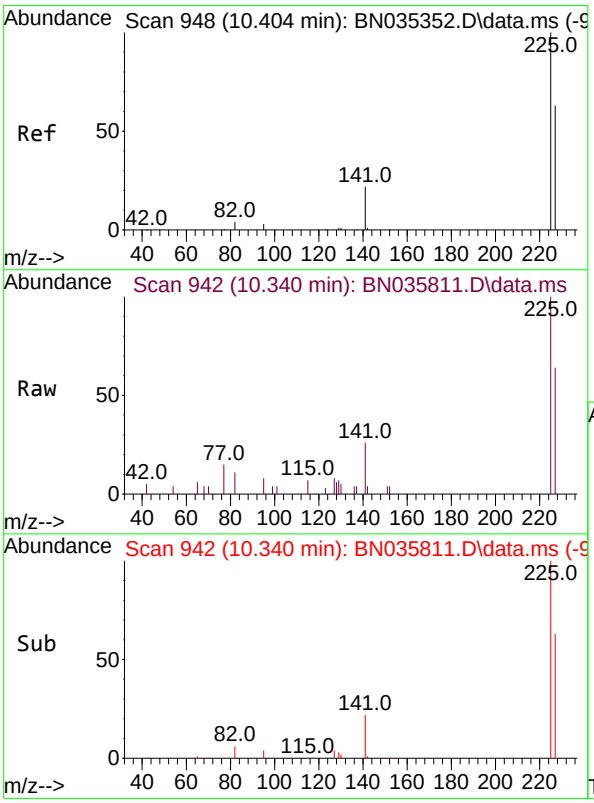
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

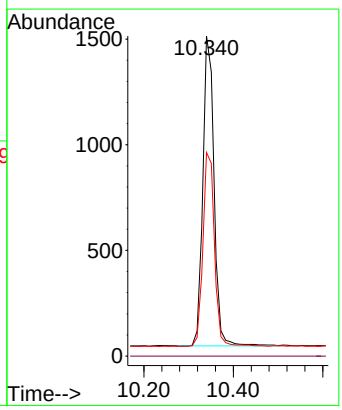
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

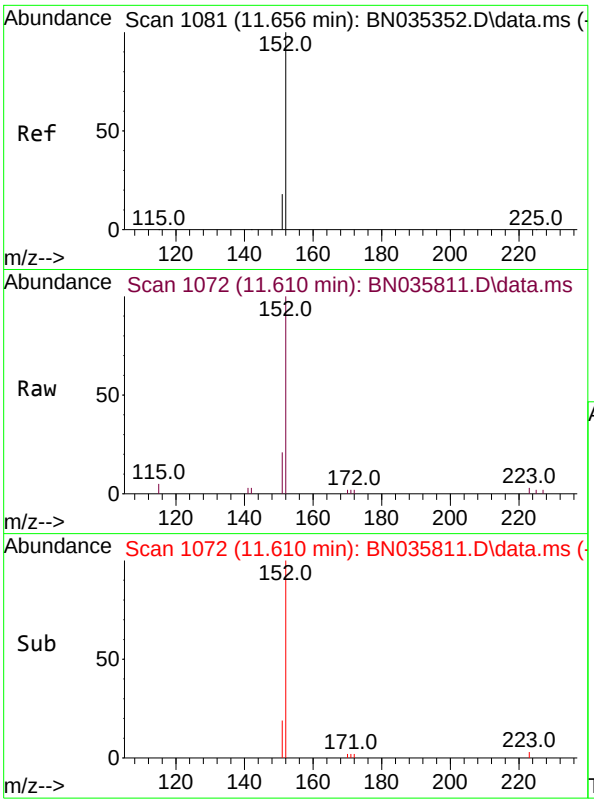


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9

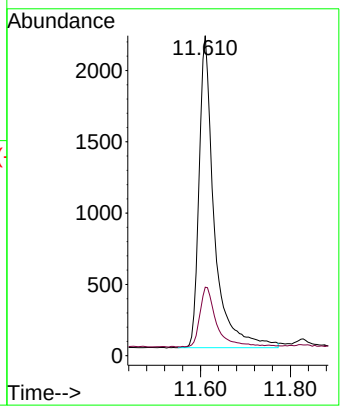




#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 512

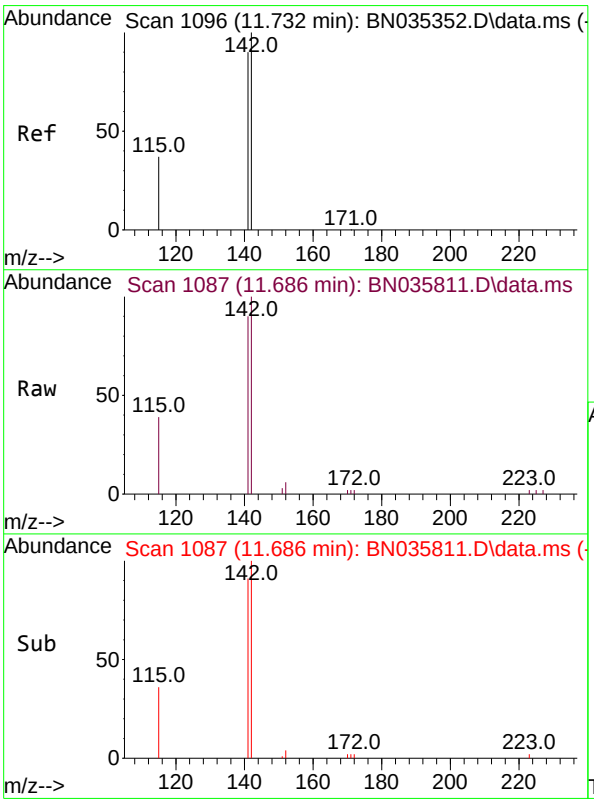
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

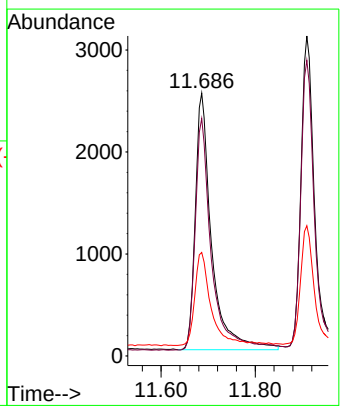
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

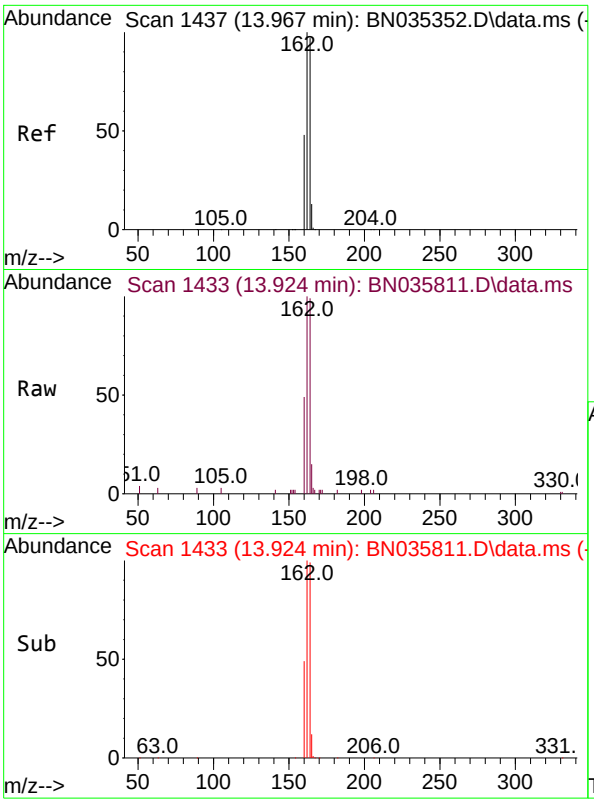


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.4	31.4	47.0

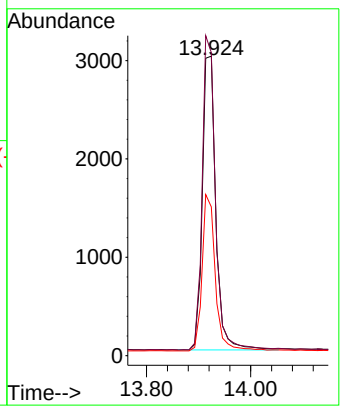




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:164 Resp: 538

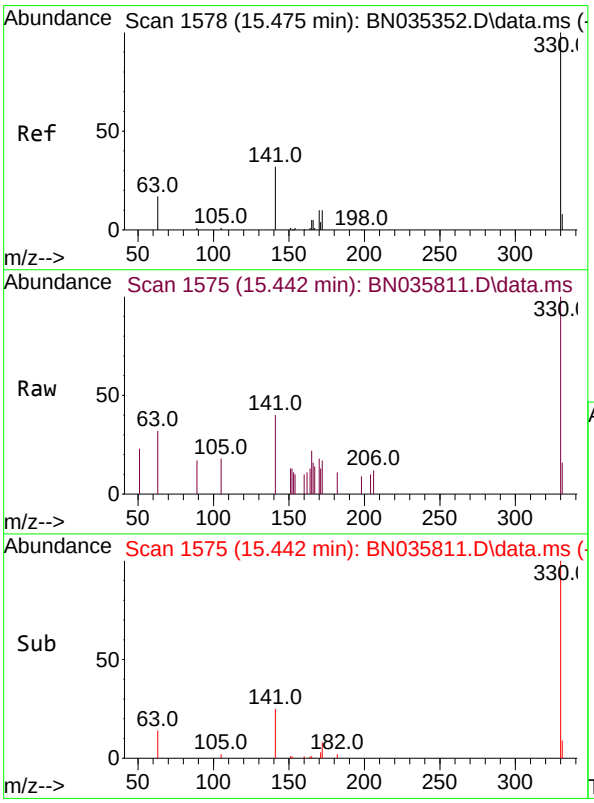
Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.7	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

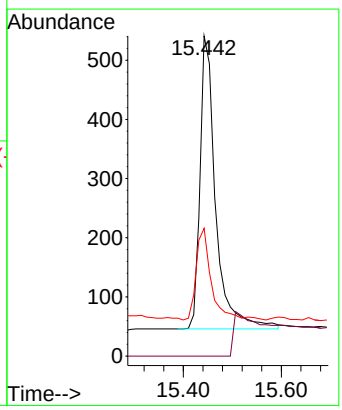
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

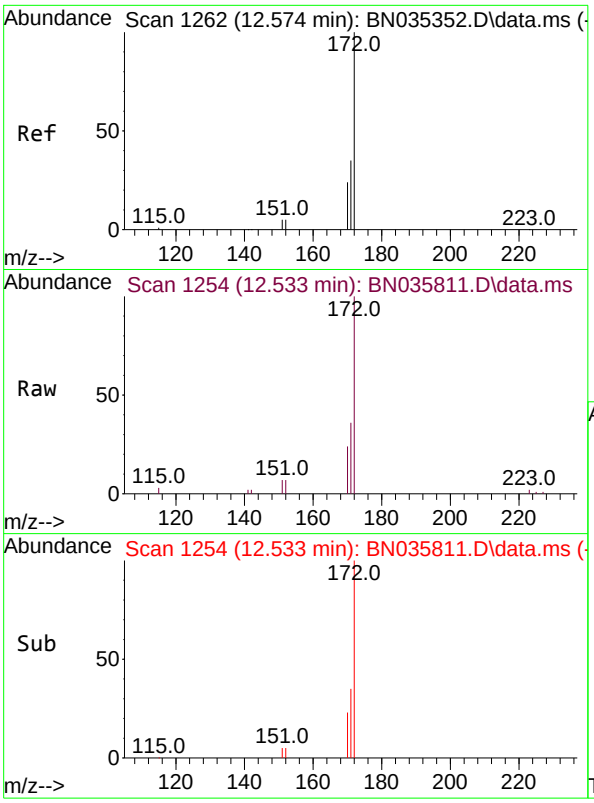


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0

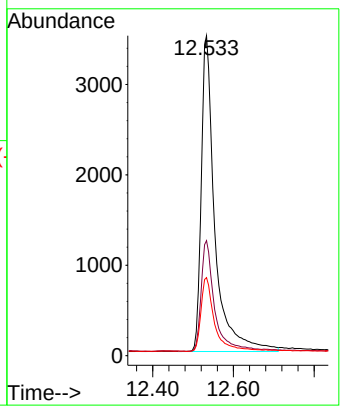




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:172 Resp: 820

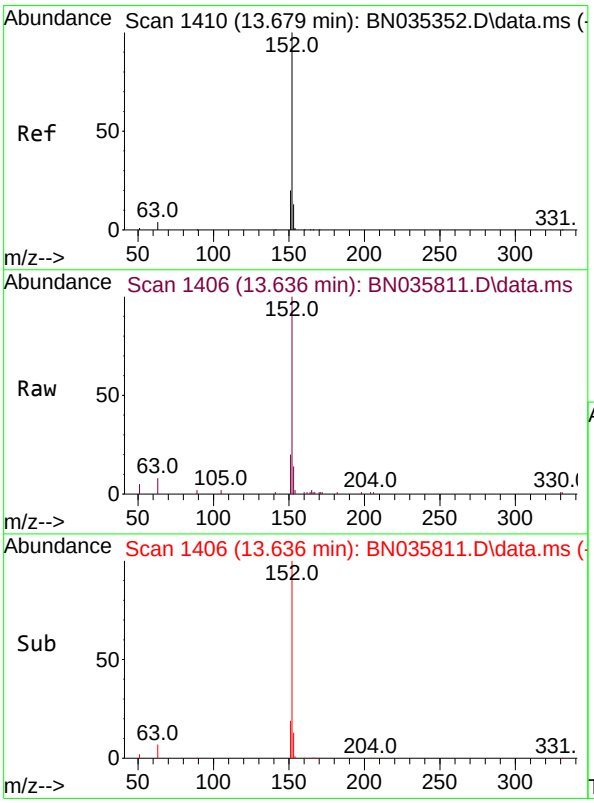
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

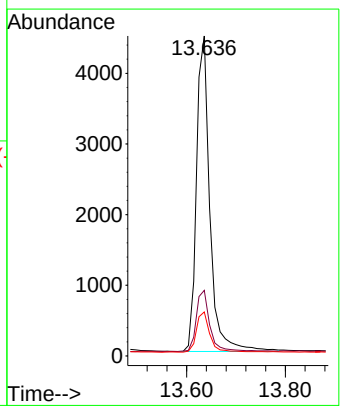
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

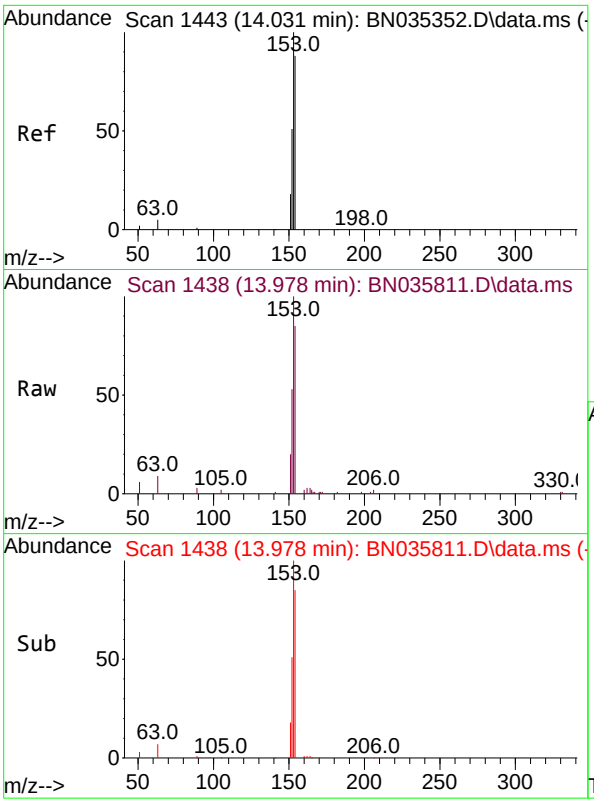


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6

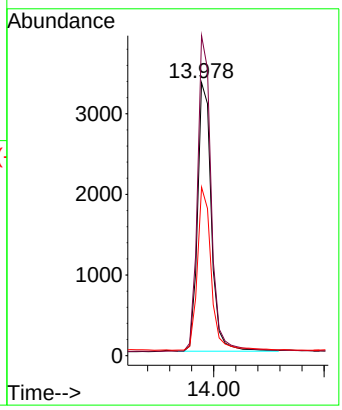




#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:154 Resp: 578

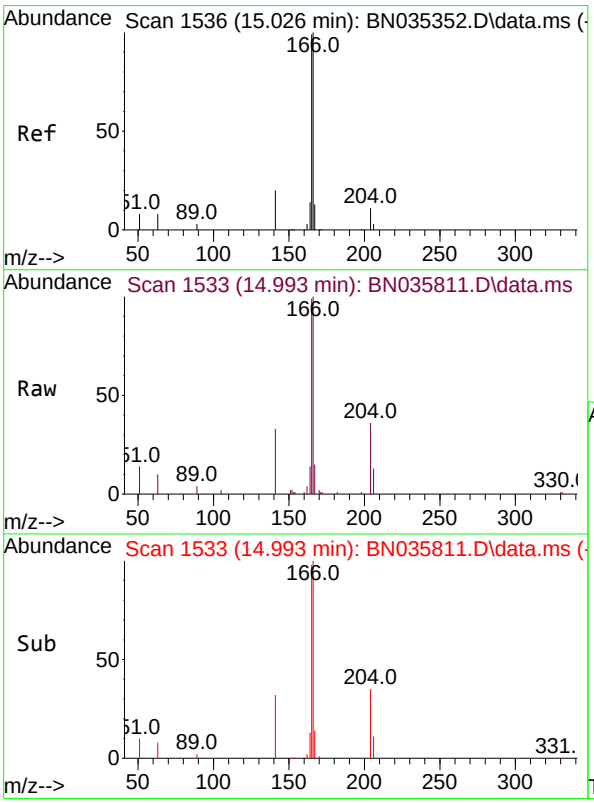
Ion	Ratio	Lower	Upper
154	100		
153	117.6	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

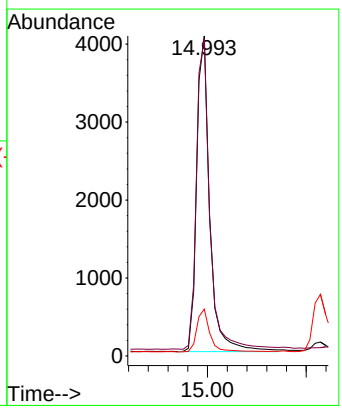
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

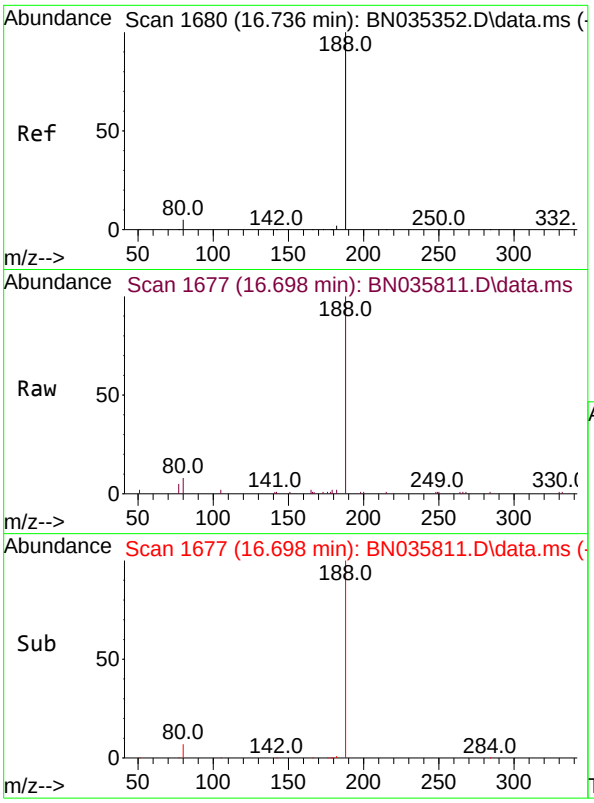


#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.7	10.8	16.2

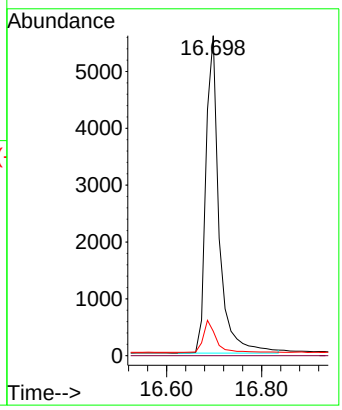




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:188 Resp: 1085

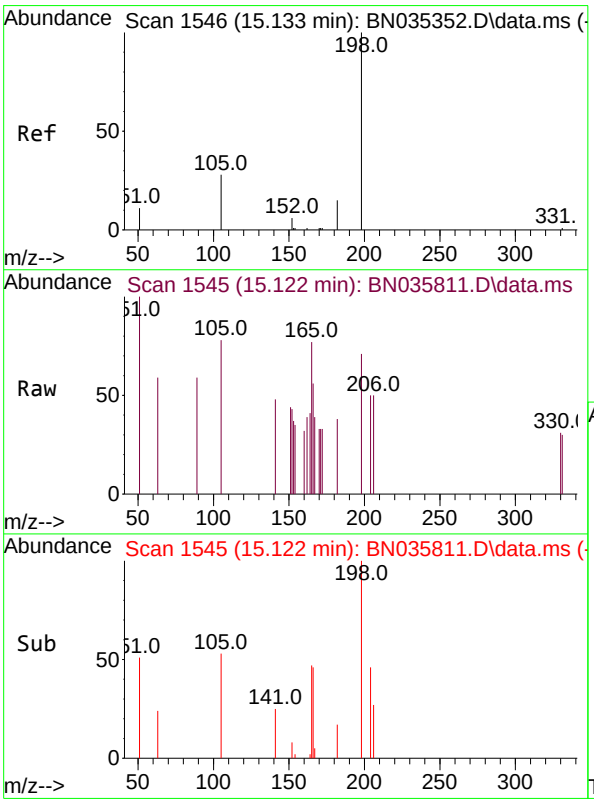
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

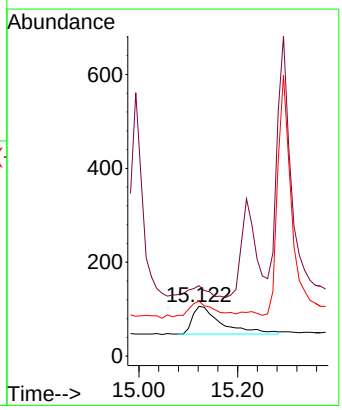
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

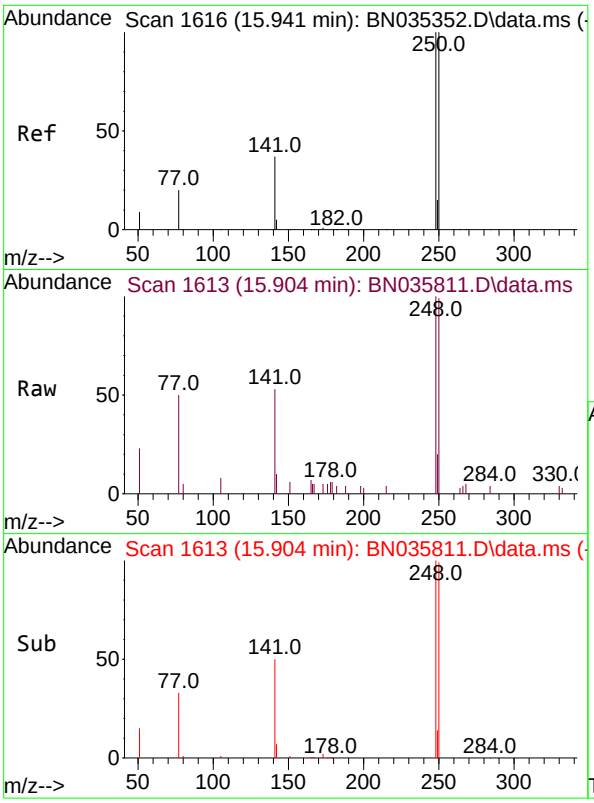


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

Ion	Ratio	Lower	Upper
198	100		
51	141.5	46.5	69.7#
105	110.4	45.3	67.9#

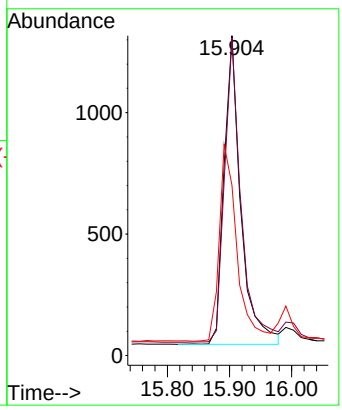




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:248 Resp: 237

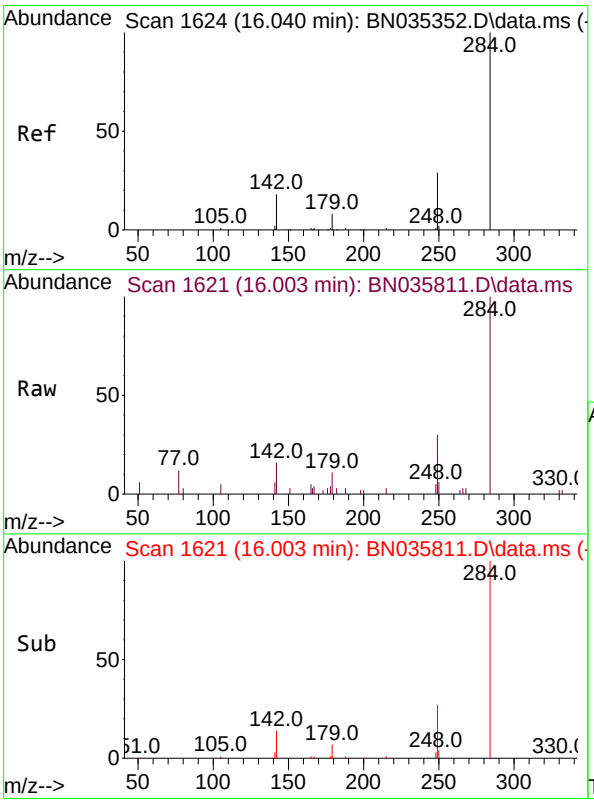
Ion	Ratio	Lower	Upper
248	100		
250	99.5	80.6	120.8
141	53.2	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

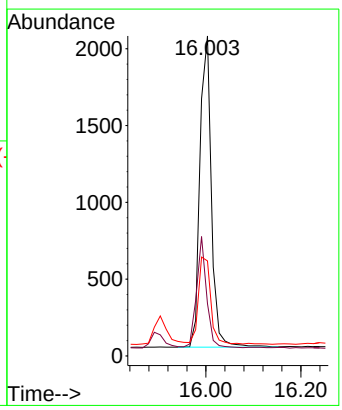
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

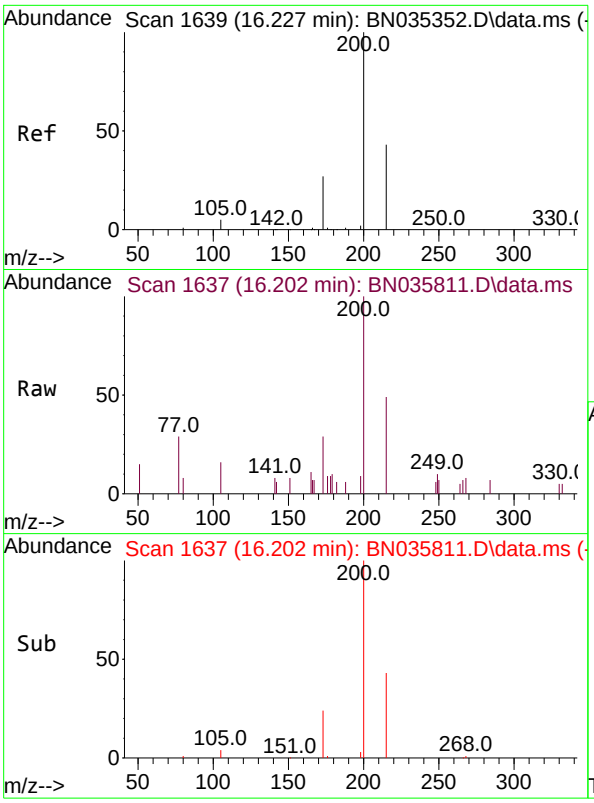


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.7	40.1
249	30.0	24.6	36.8

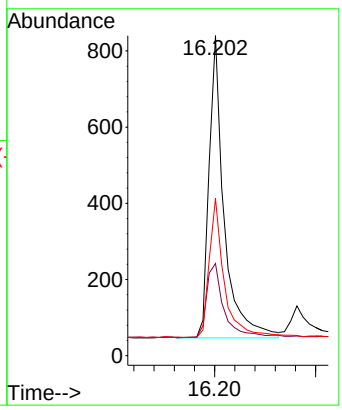




#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:200 Resp: 164(

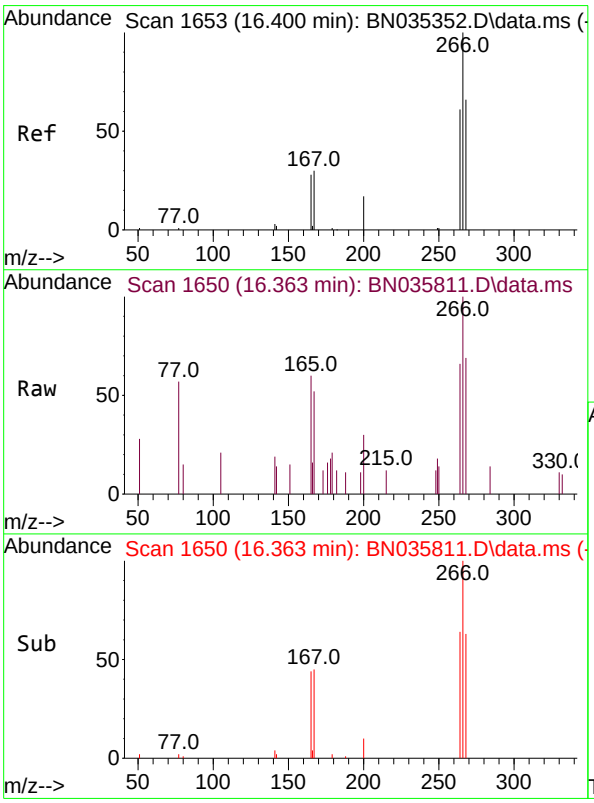
Ion	Ratio	Lower	Upper
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

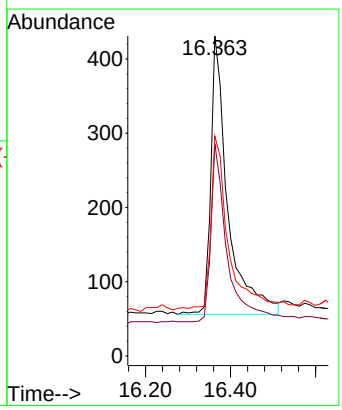
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

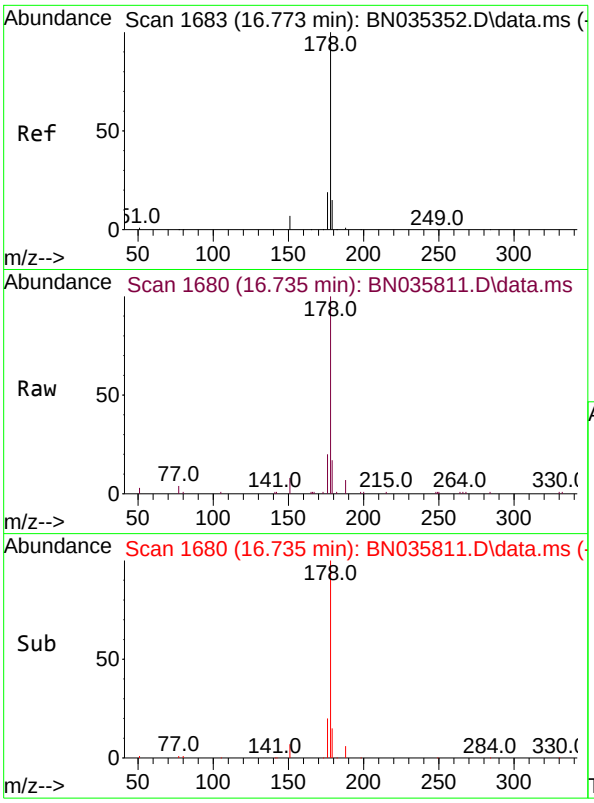


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.5	43.3	64.9

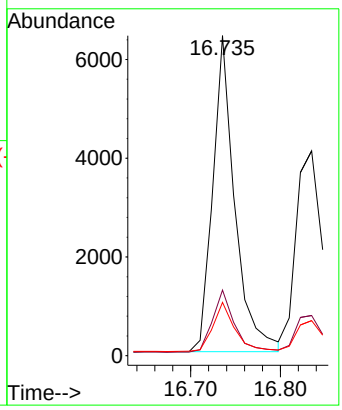




#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 1095(

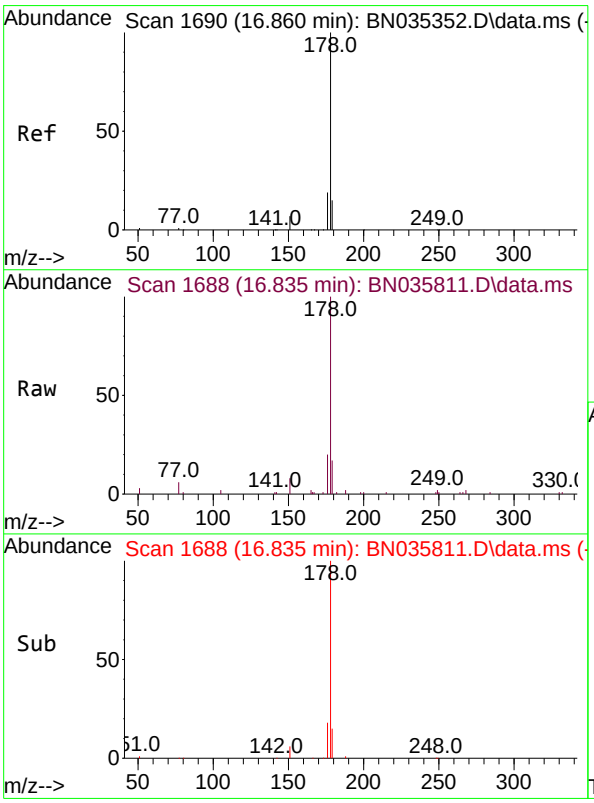
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

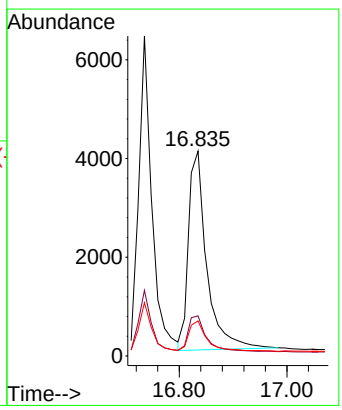
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

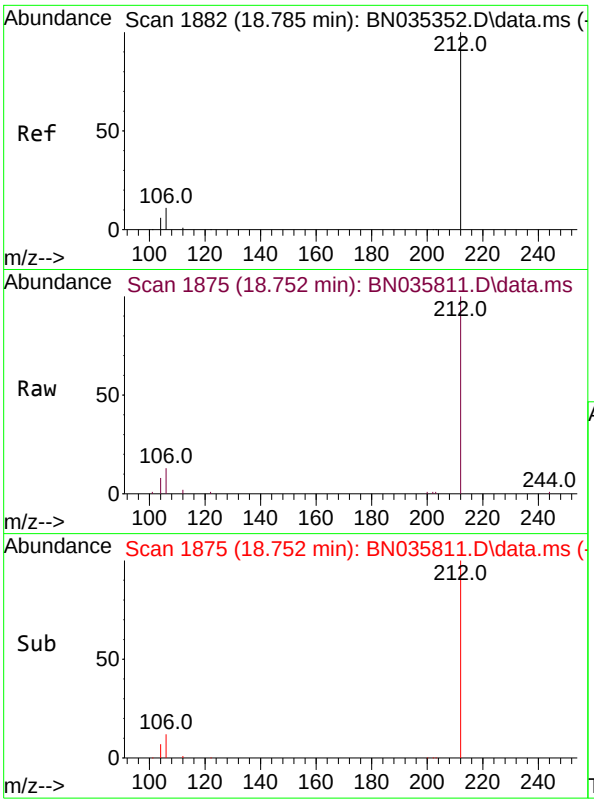


#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.7	12.6	18.8

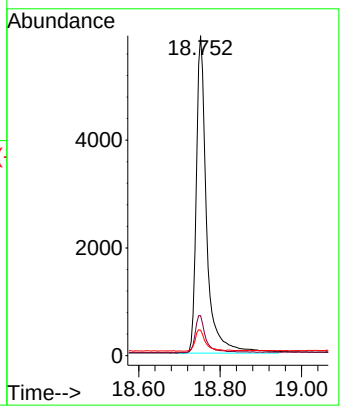




#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:212 Resp: 1034

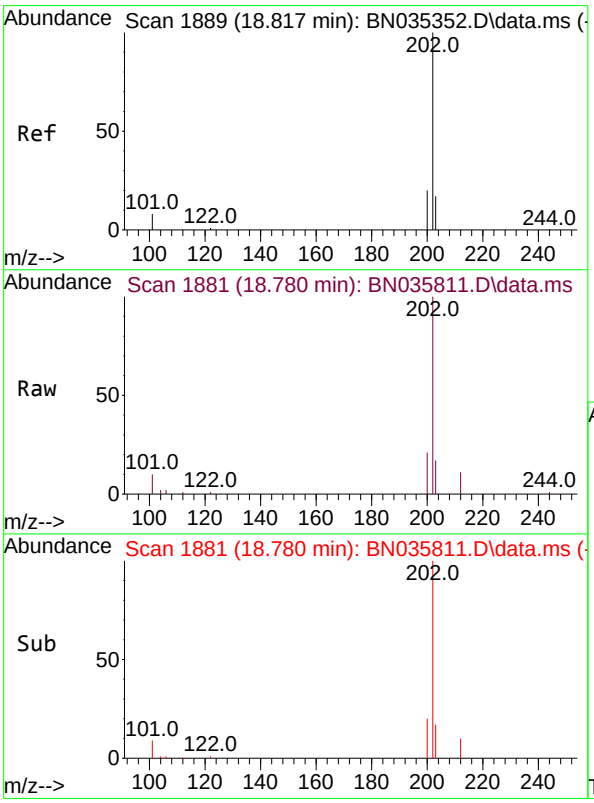
Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

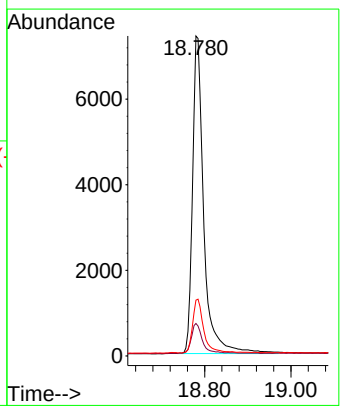
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

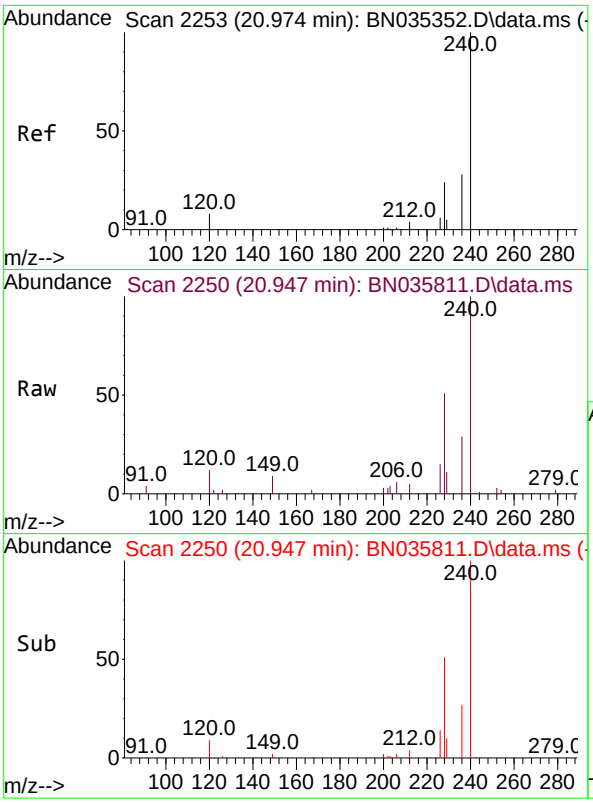


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.5	13.7	20.5

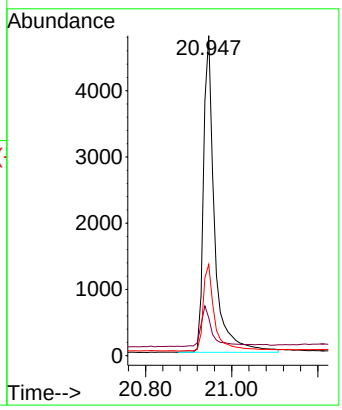




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:240 Resp: 856

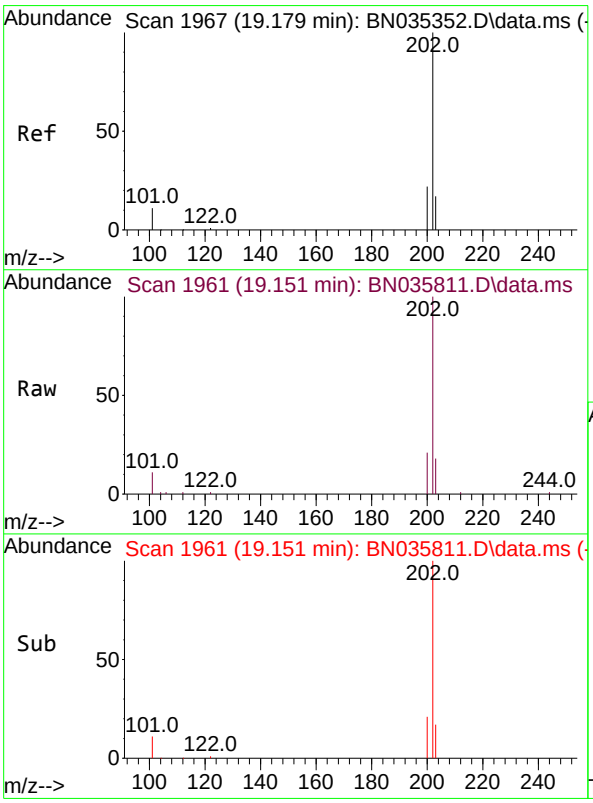
Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

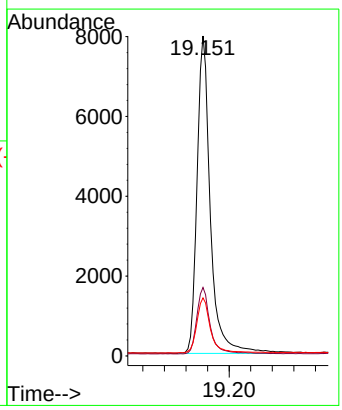
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

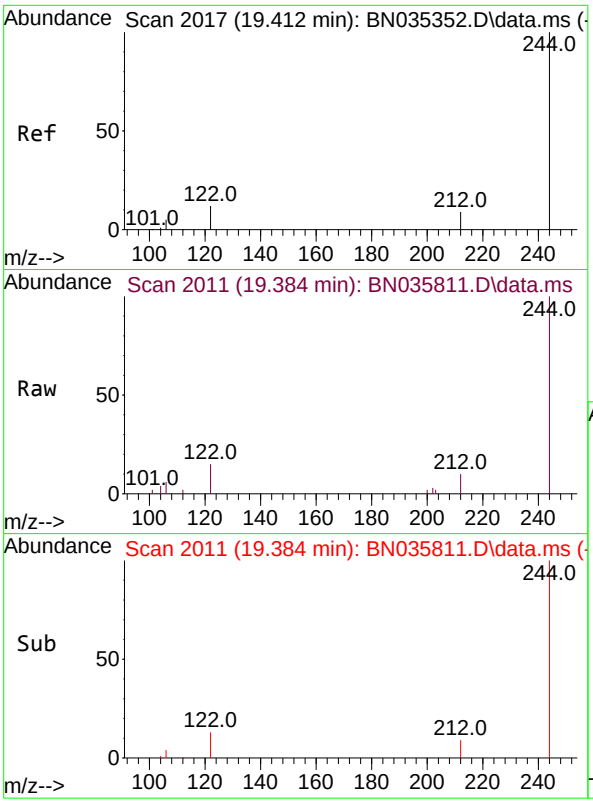


#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5

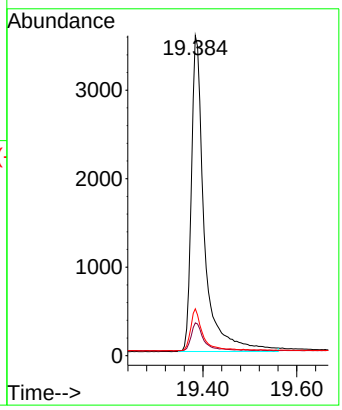




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:244 Resp: 688

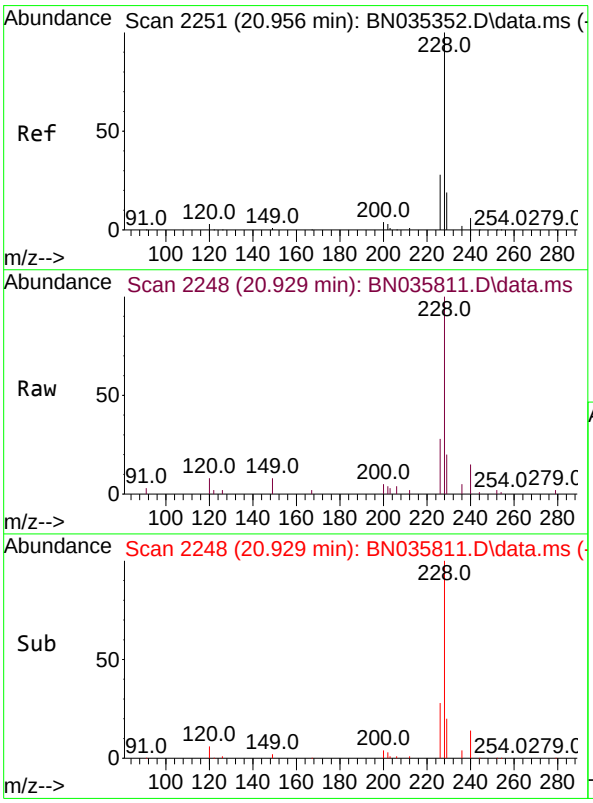
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

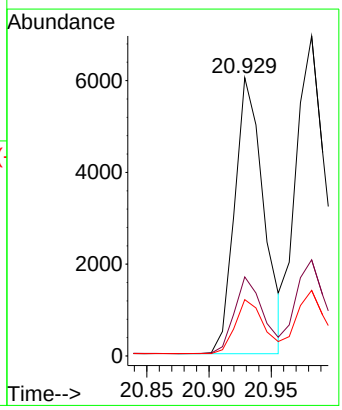
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

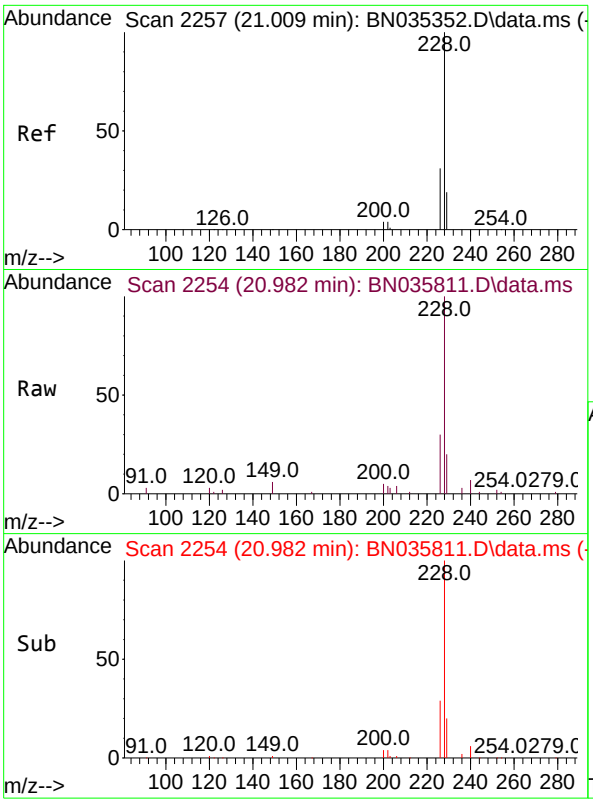


#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.3	15.8	23.8

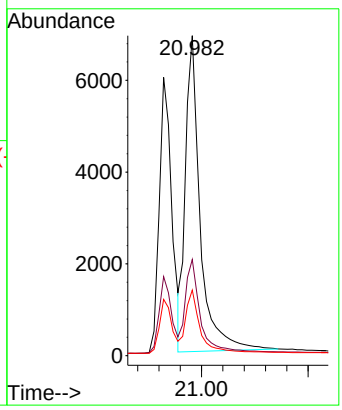




#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 1323

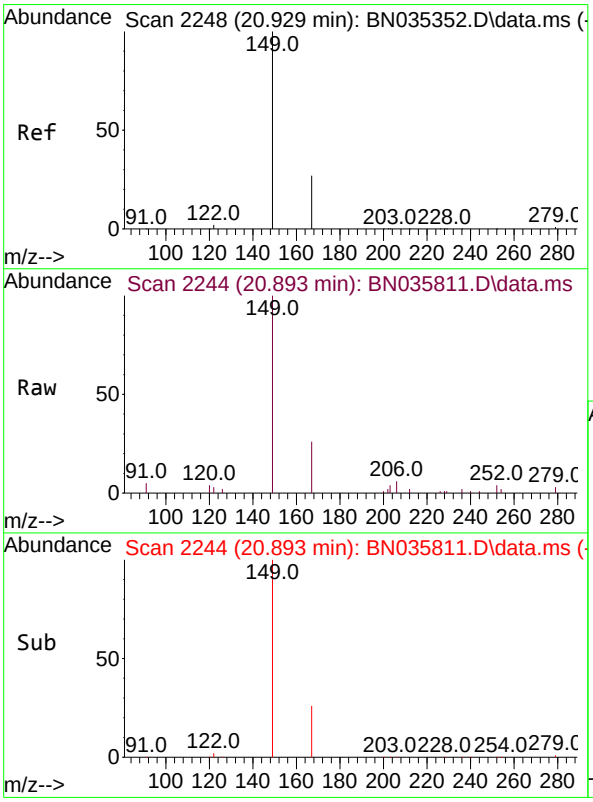
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

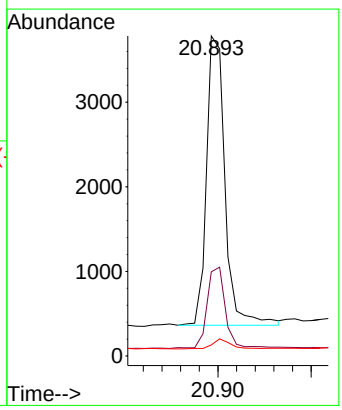
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

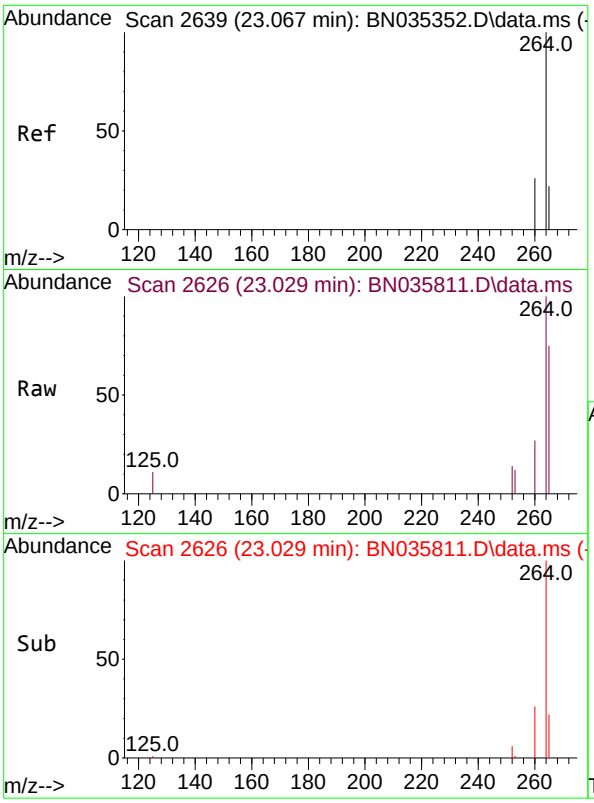


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1

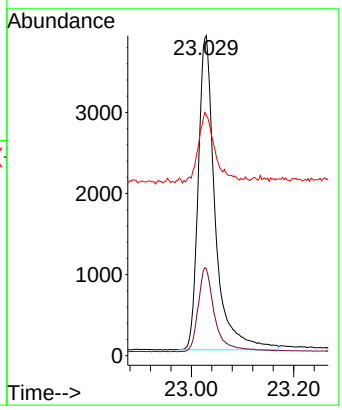




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:264 Resp: 887

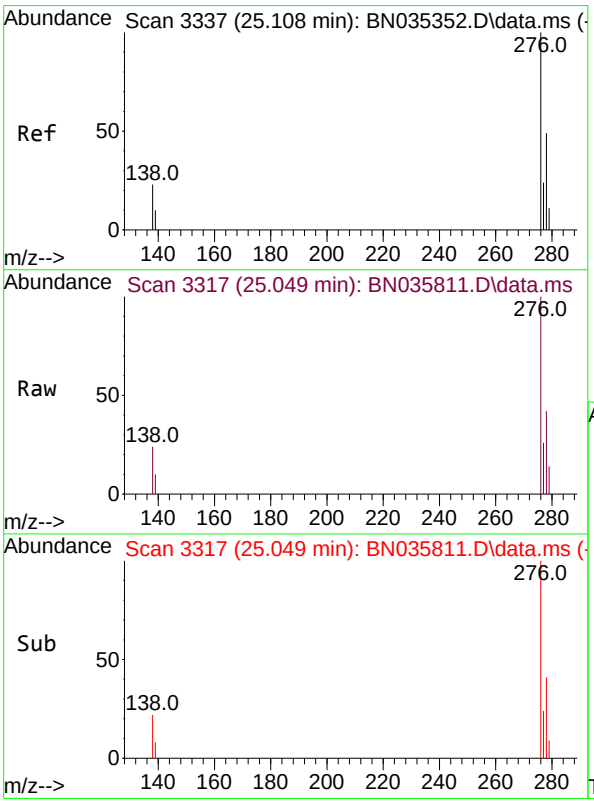
Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	75.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

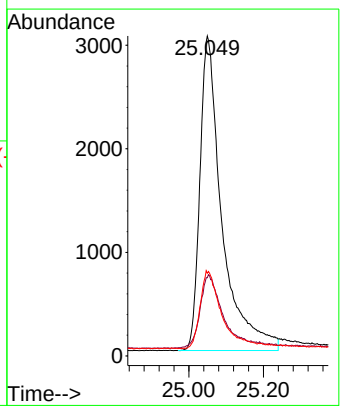
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

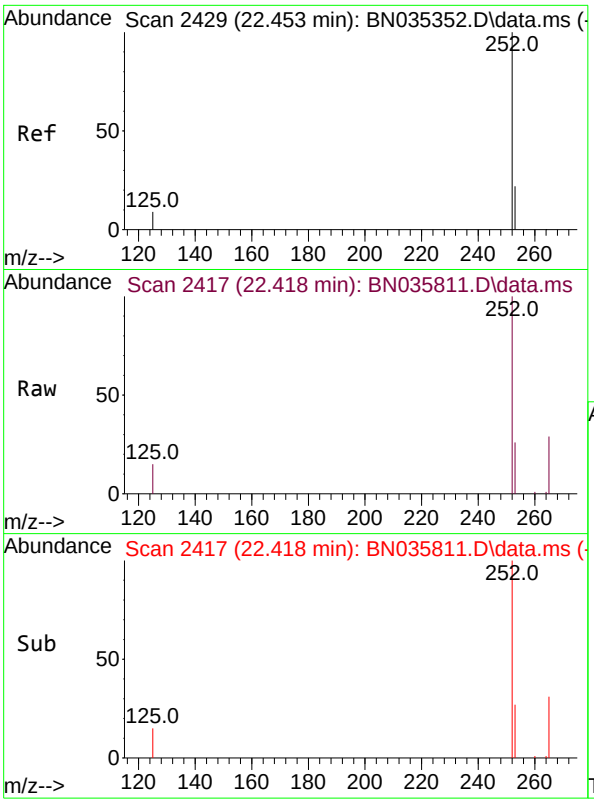


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.1	19.8	29.6

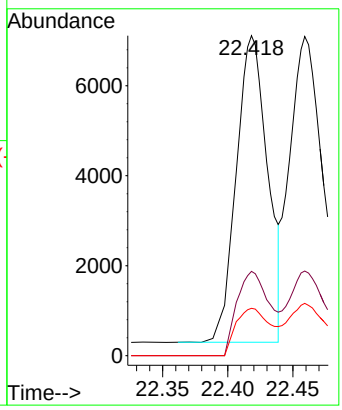




#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1696

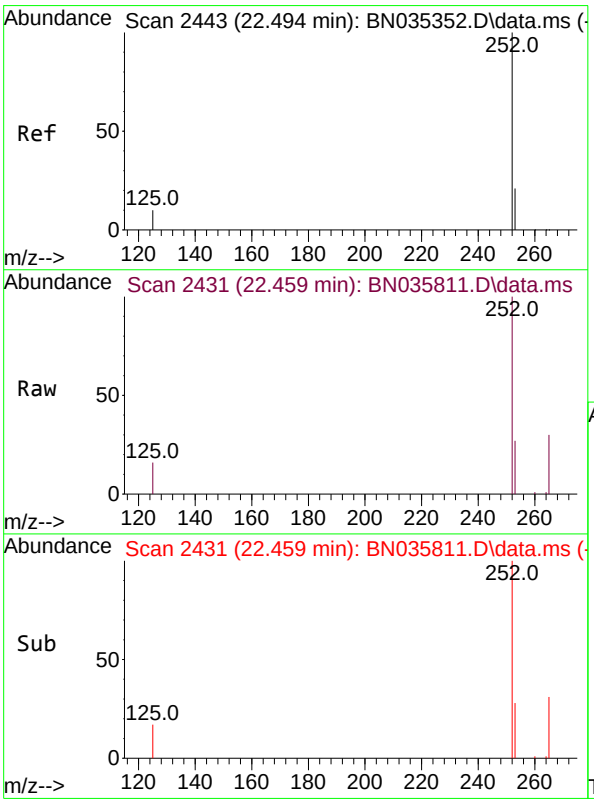
Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

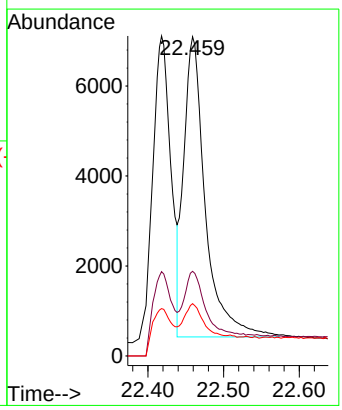
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

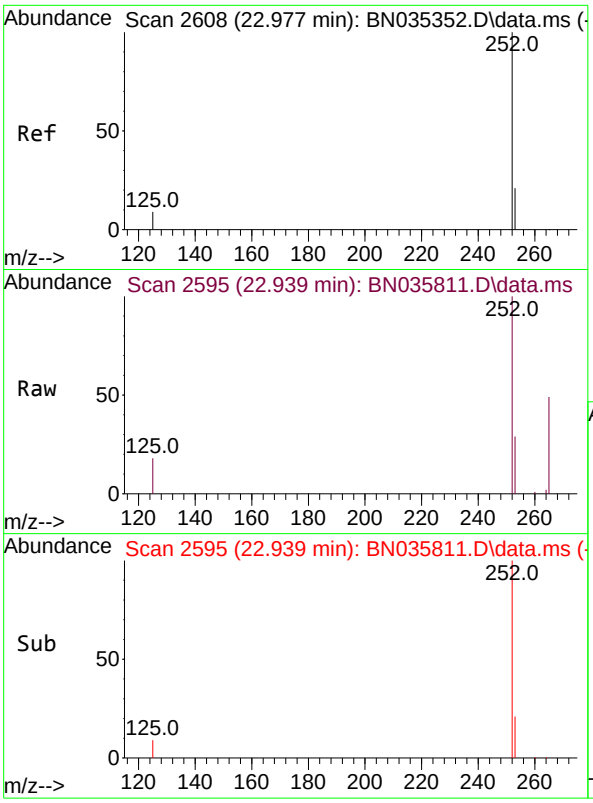


#38
Benzo(k)fluoranthene
Concen: 0.414 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 13236

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	16.4	10.2	15.4#

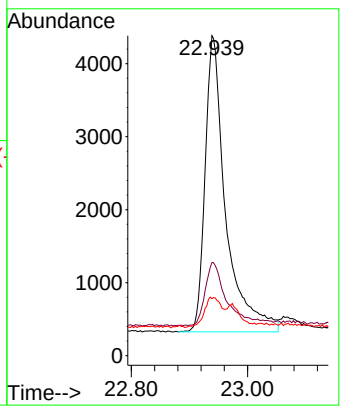




#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1000

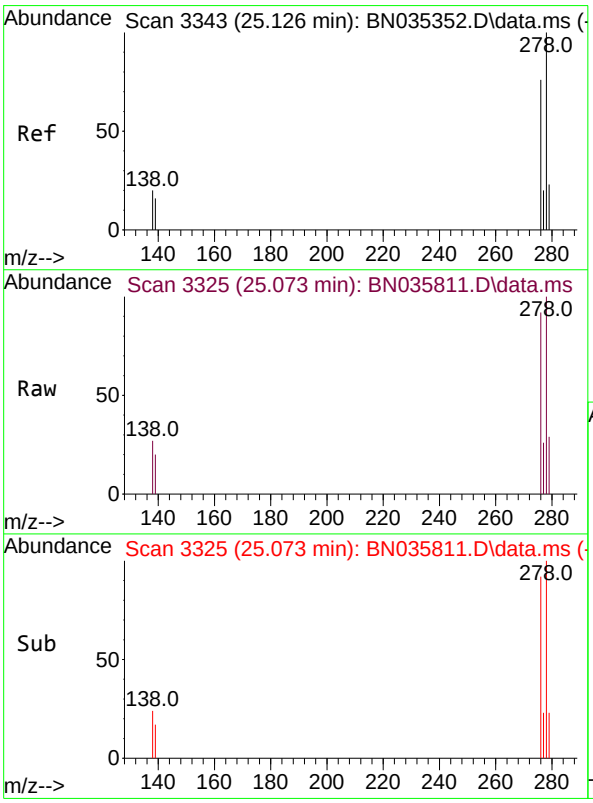
Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

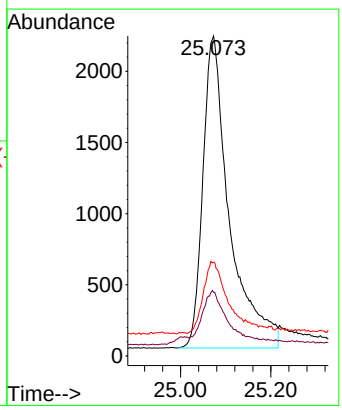
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

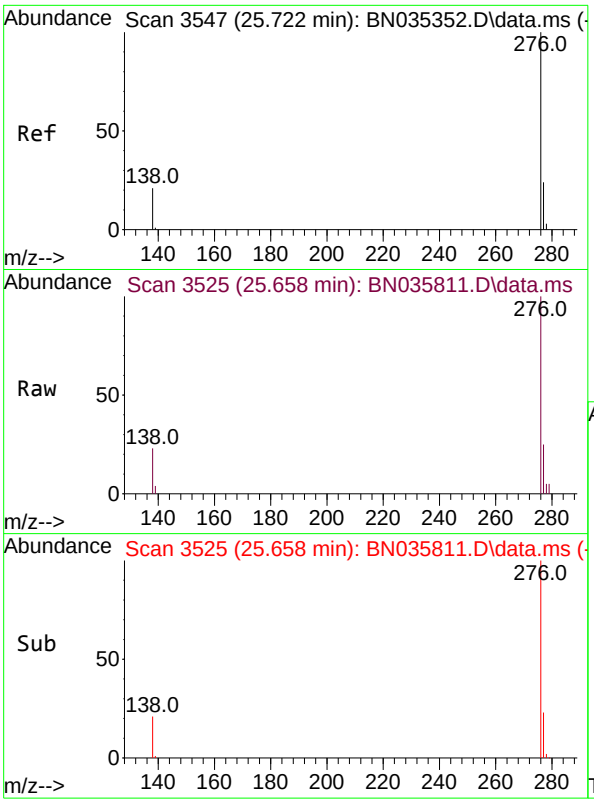


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.2	21.4
279	29.3	20.5	30.7

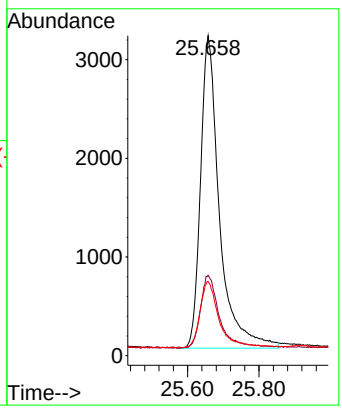




#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 1160

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	23.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	194#	0.00
2		1,4-Dioxane	0.382	0.457	-19.6	235#	0.00
3		n-Nitrosodimethylamine	0.319	0.328	-2.8	195#	0.00
4	S	2-Fluorophenol	1.001	0.931	7.0	177#	-0.01
5	S	Phenol-d6	1.204	1.289	-7.1	209#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.924	8.7	181#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	181#	-0.02
8	S	Nitrobenzene-d5	0.244	0.285	-16.8	220#	-0.01
9		Naphthalene	1.055	1.020	3.3	177#	-0.01
10		Hexachlorobutadiene	0.243	0.269	-10.7	197#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.541	13.6	158#	-0.01
12		2-Methylnaphthalene	0.755	0.639	15.4	157#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	118	-0.01
15	S	2-Fluorobiphenyl	1.512	1.523	-0.7	143	-0.01
16		Acenaphthylene	1.680	1.562	7.0	139	-0.01
17		Acenaphthene	1.115	1.073	3.8	140	-0.02
18		Fluorene	1.596	1.384	13.3	127	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.022	43.6#	72	0.00
21		4-Bromophenyl-phenylether	0.234	0.219	6.4	111	-0.01
22		Hexachlorobenzene	0.275	0.313	-13.8	131	-0.01
23		Atrazine	0.167	0.151	9.6	112	0.00
24		Pentachlorophenol	0.120	0.096	20.0	115	-0.01
25		Phenanthrene	1.099	1.009	8.2	108	-0.01
26		Anthracene	0.994	0.874	12.1	106	0.00
27	SURR	Fluoranthene-d10	1.134	0.953	16.0	101	0.00
28		Fluoranthene	1.481	1.236	16.5	100	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30		Pyrene	1.477	1.584	-7.2	97	0.00
31	S	Terphenyl-d14	0.789	0.804	-1.9	91	0.00
32		Benzo(a)anthracene	1.399	1.143	18.3	76	0.00
33		Chrysene	1.443	1.544	-7.0	96	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.551	0.4	96	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.407	10.0	75	-0.02
37		Benzo(b)fluoranthene	1.463	1.911	-30.6#	119	-0.01
38		Benzo(k)fluoranthene	1.440	1.491	-3.5	87	-0.01
39	C	Benzo(a)pyrene	1.205	1.126	6.6	80	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.009	18.2	69	0.00
41		Benzo(g,h,i)perylene	1.289	1.307	-1.4	86	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN035811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	194	0.00
2		1,4-Dioxane	0.400	0.478	-19.5	235	0.00
3		n-Nitrosodimethylamine	0.400	0.412	-3.0	195	0.00
4	S	2-Fluorophenol	0.400	0.372	7.0	177	-0.01
5	S	Phenol-d6	0.400	0.428	-7.0	209	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.366	8.5	181	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	181	-0.02
8	S	Nitrobenzene-d5	0.400	0.467	-16.8	220	-0.01
9		Naphthalene	0.400	0.387	3.3	177	-0.01
10		Hexachlorobutadiene	0.400	0.442	-10.5	197	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.346	13.5	158	-0.01
12		2-Methylnaphthalene	0.400	0.338	15.5	157	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	118	-0.01
15	S	2-Fluorobiphenyl	0.400	0.403	-0.8	143	-0.01
16		Acenaphthylene	0.400	0.372	7.0	139	-0.01
17		Acenaphthene	0.400	0.385	3.8	140	-0.02
18		Fluorene	0.400	0.347	13.3	127	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.229	42.8#	72	0.00
21		4-Bromophenyl-phenylether	0.400	0.375	6.3	111	-0.01
22		Hexachlorobenzene	0.400	0.455	-13.7	131	-0.01
23		Atrazine	0.400	0.363	9.3	112	0.00
24		Pentachlorophenol	0.400	0.321	19.8	115	-0.01
25		Phenanthrene	0.400	0.367	8.3	108	-0.01
26		Anthracene	0.400	0.352	12.0	106	0.00
27	SURR	Fluoranthene-d10	0.400	0.336	16.0	101	0.00
28		Fluoranthene	0.400	0.334	16.5	100	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30		Pyrene	0.400	0.429	-7.2	97	0.00
31	S	Terphenyl-d14	0.400	0.407	-1.7	91	0.00
32		Benzo(a)anthracene	0.400	0.327	18.3	76	0.00
33		Chrysene	0.400	0.428	-7.0	96	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.399	0.3	96	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.360	10.0	75	-0.02
37		Benzo(b)fluoranthene	0.400	0.522	-30.5#	119	-0.01
38		Benzo(k)fluoranthene	0.400	0.414	-3.5	87	-0.01
39	C	Benzo(a)pyrene	0.400	0.374	6.5	80	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.327	18.3	69	0.00
41		Benzo(g,h,i)perylene	0.400	0.405	-1.3	86	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BN035828.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 19:05

Lab File ID: BN035828.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.533		-14.9	50.0
Fluoranthene-d10	1.134	0.931		-17.9	50.0
2-Fluorophenol	1.001	0.895		-10.6	50.0
Phenol-d6	1.204	1.524		26.6	50.0
Nitrobenzene-d5	0.244	0.319		30.7	50.0
2-Fluorobiphenyl	1.512	1.565		3.5	50.0
2,4,6-Tribromophenol	0.284	0.194		-31.7	50.0
Terphenyl-d14	0.789	0.809		2.5	50.0
1,4-Dioxane	0.382	0.501		31.2	50.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Sample Results: **BN035828.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400	ng		-0.02
7) Naphthalene-d8	9.998	136	9840	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400	ng		-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7447	0.400	ng		# 0.00
35) Perylene-d12	23.029	264	7426	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3589	0.358	ng		-0.01
5) Phenol-d6	6.470	99	6110	0.506	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3140m	0.522	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5246	0.341	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1040	0.273	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8409	0.414	ng		-0.01
27) Fluoranthene-d10	18.752	212	9222	0.328	ng		0.00
31) Terphenyl-d14	19.384	244	6024	0.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2007	0.524	ng		99
3) n-Nitrosodimethylamine	3.270	42	1227	0.384	ng	#	82
6) bis(2-Chloroethyl)ether	6.715	93	4129	0.407	ng		99
9) Naphthalene	10.052	128	10772	0.415	ng		99
10) Hexachlorobutadiene	10.340	225	2784	0.465	ng	#	99
12) 2-Methylnaphthalene	11.686	142	6505	0.350	ng		99
16) Acenaphthylene	13.636	152	8453	0.375	ng		99
17) Acenaphthene	13.978	154	5821	0.389	ng		100
18) Fluorene	14.993	166	7311	0.341	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	239	0.245	ng	#	24
21) 4-Bromophenyl-phenylether	15.904	248	2287	0.395	ng	#	91
22) Hexachlorobenzene	16.003	284	3296	0.484	ng		99
23) Atrazine	16.202	200	1504	0.365	ng		95
24) Pentachlorophenol	16.363	266	898	0.303	ng		89
25) Phenanthrene	16.735	178	10097	0.371	ng		100
26) Anthracene	16.835	178	8619	0.350	ng		100
28) Fluoranthene	18.784	202	11973	0.326	ng		99
30) Pyrene	19.151	202	12223	0.445	ng		100
32) Benzo(a)anthracene	20.929	228	8203	0.315	ng		99
33) Chrysene	20.982	228	11628	0.433	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4135	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	10298	0.355	ng	#	83
37) Benzo(b)fluoranthene	22.418	252	17240	0.635	ng	#	95
38) Benzo(k)fluoranthene	22.462	252	11542m	0.432	ng		
39) Benzo(a)pyrene	22.944	252	8337	0.373	ng	#	87
40) Dibenzo(a,h)anthracene	25.073	278	7409	0.323	ng	#	90
41) Benzo(g,h,i)perylene	25.663	276	9651	0.403	ng		98

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

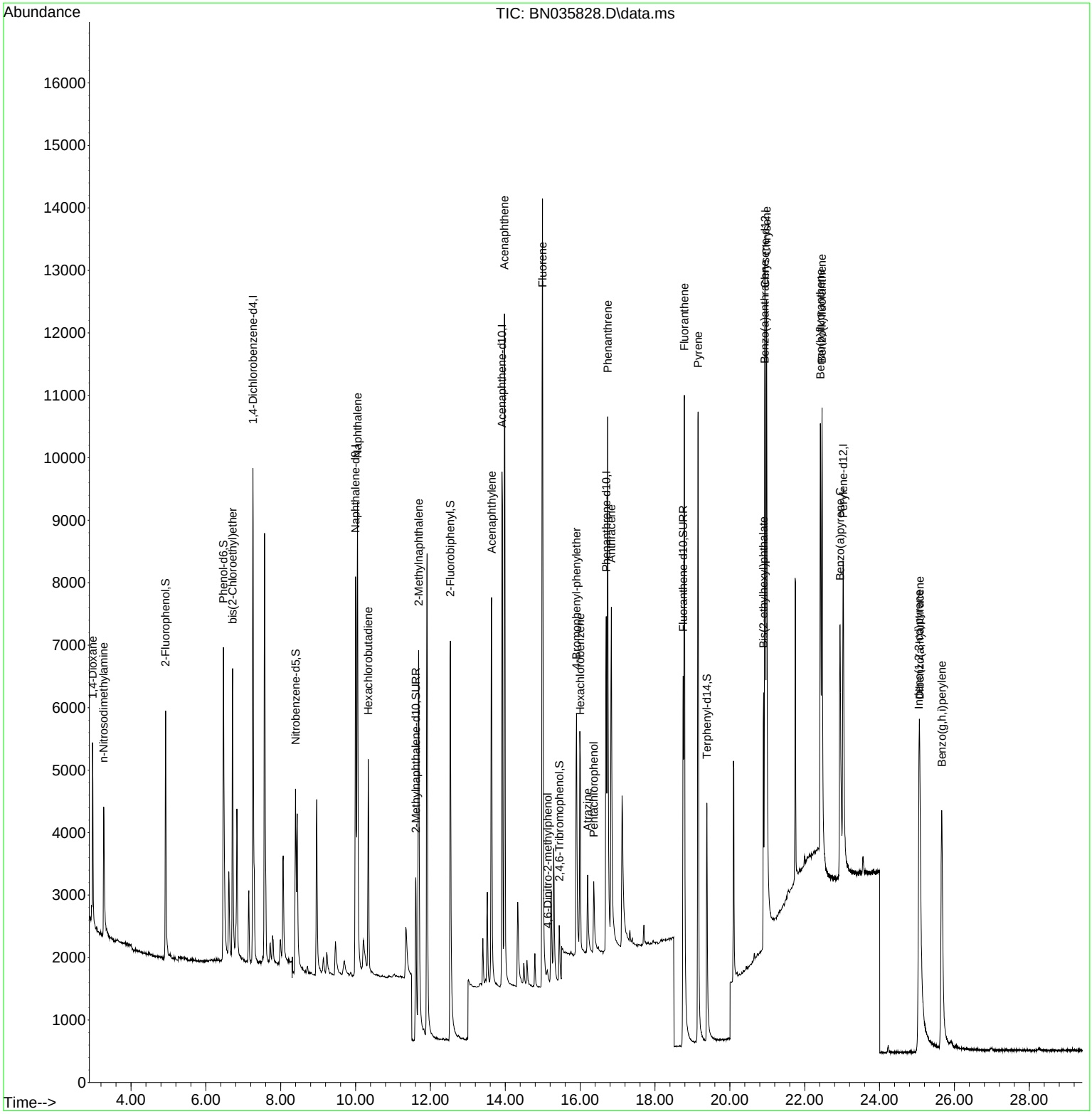
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

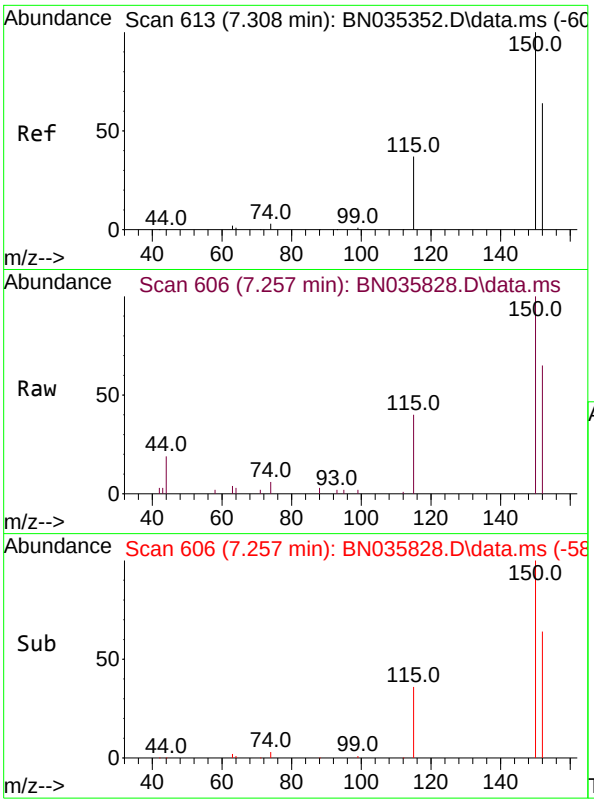
Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

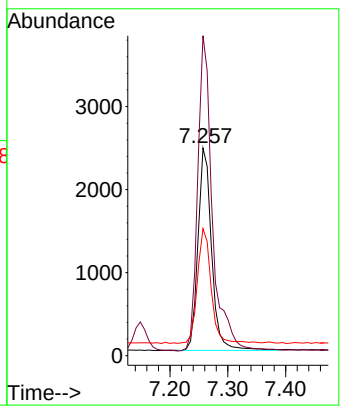




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 400

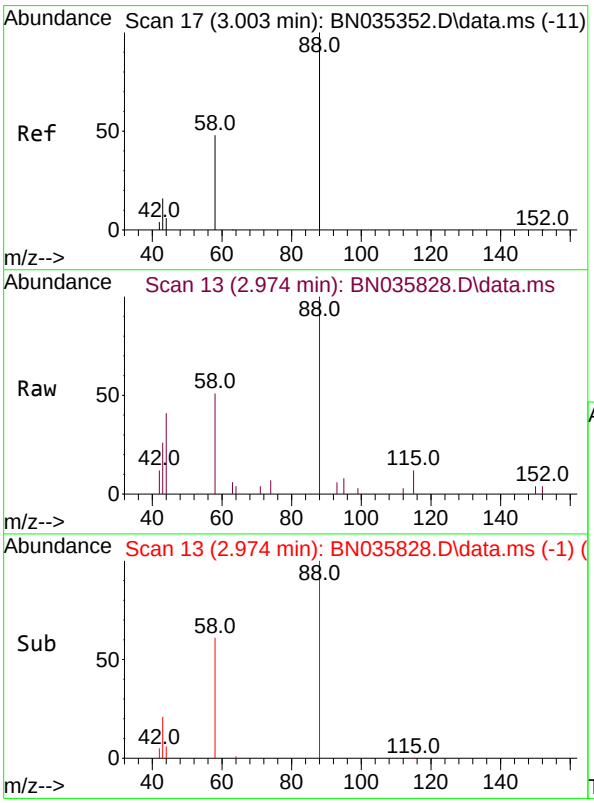
Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	61.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

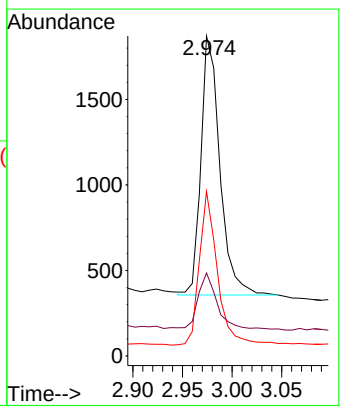
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

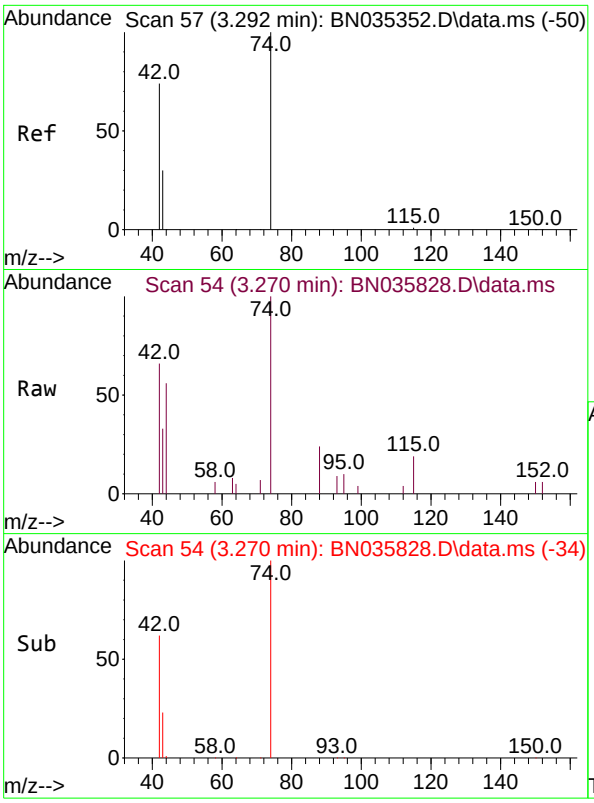


#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	56.9	44.5	66.7

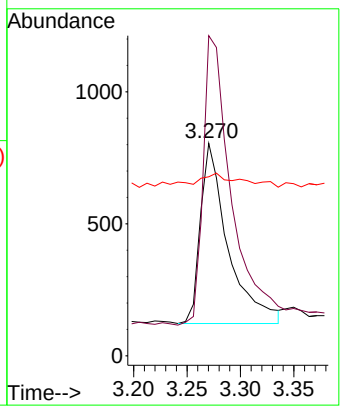




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 42 Resp: 122

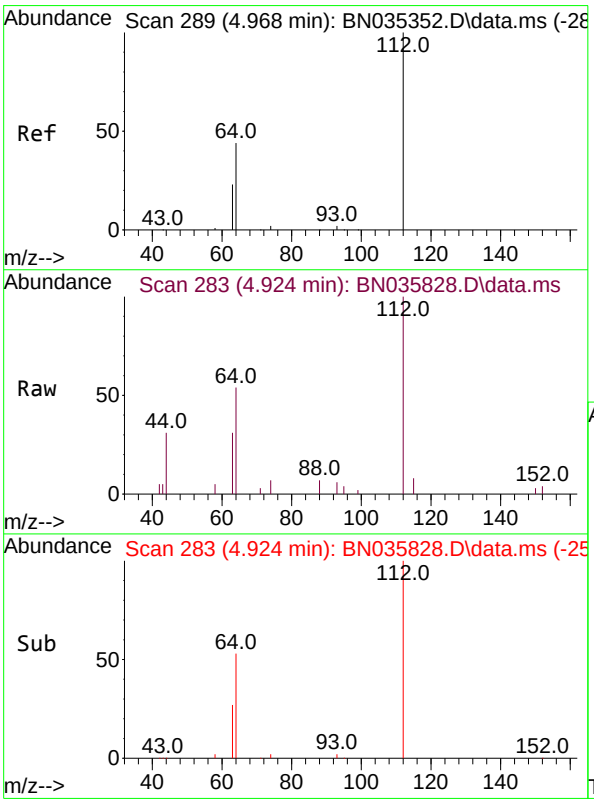
Ion	Ratio	Lower	Upper
42	100		
74	178.7	124.9	187.3
44	14.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

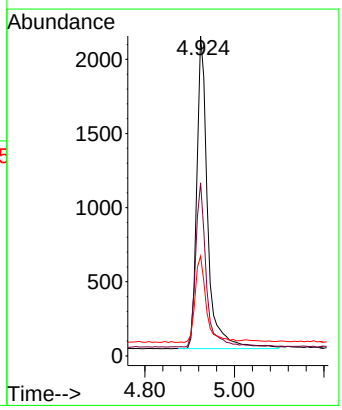
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

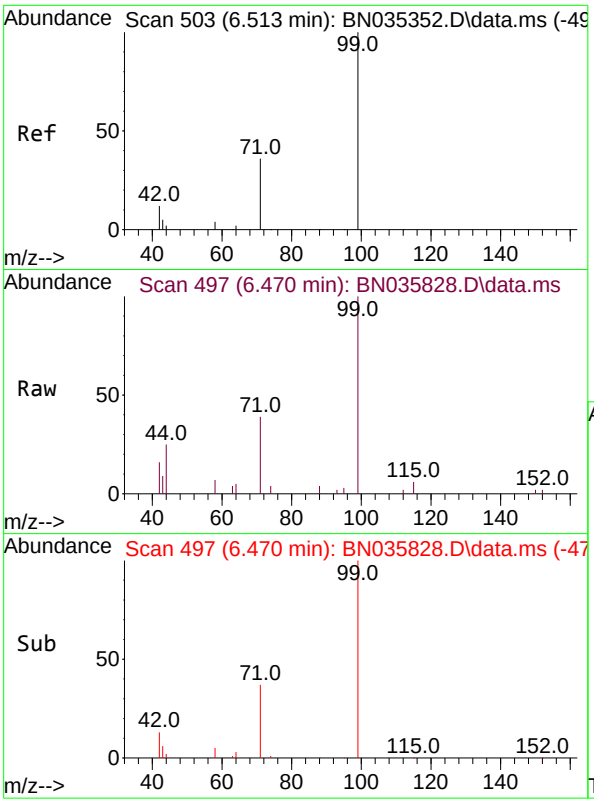


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.8	59.8
63	27.8	21.0	31.6

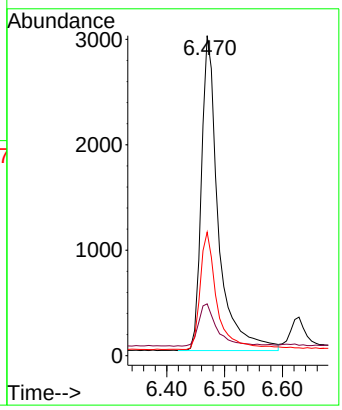




#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 99 Resp: 611

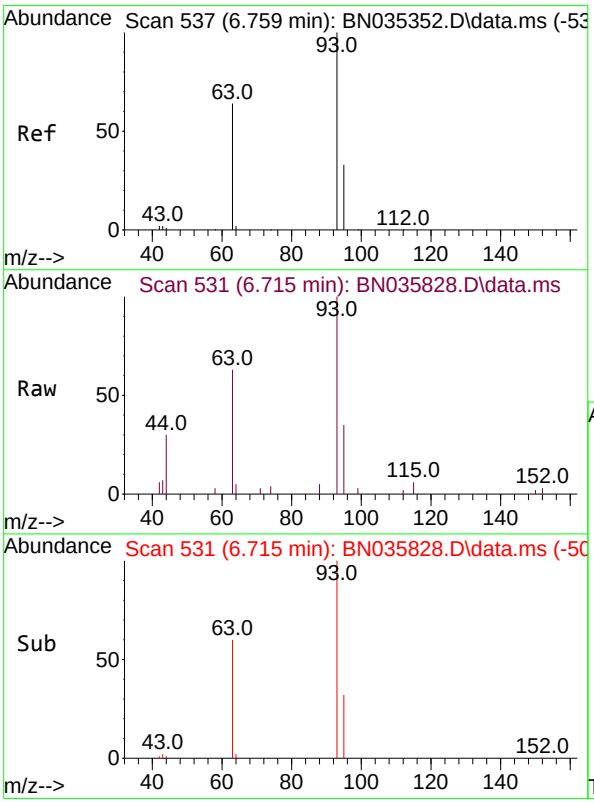
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.7	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

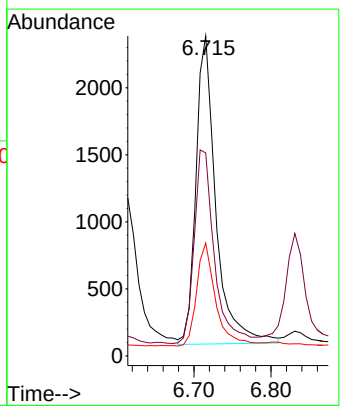
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

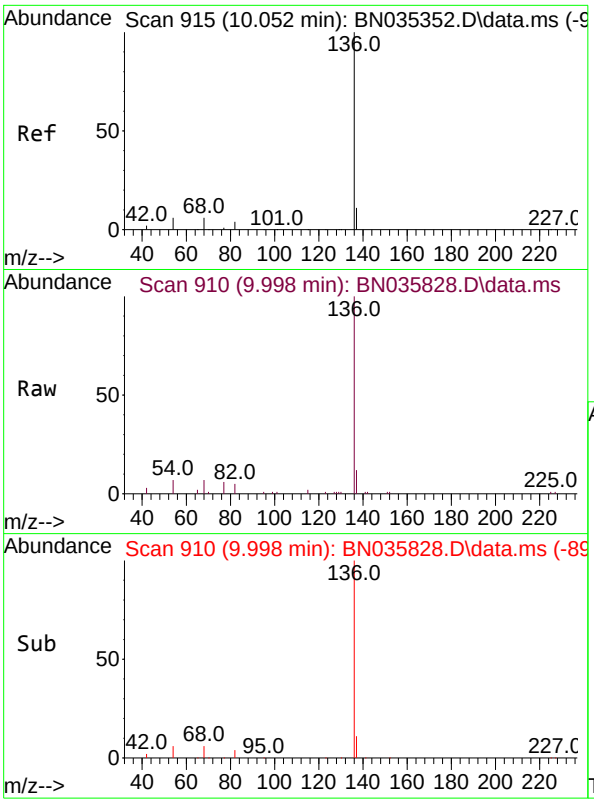


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	31.8	25.7	38.5

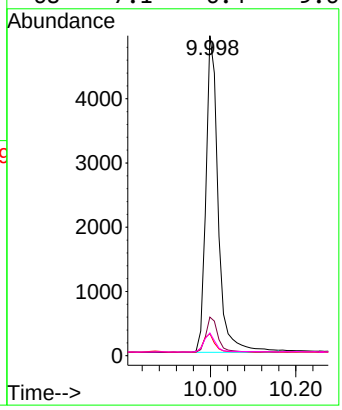




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:136 Resp: 984

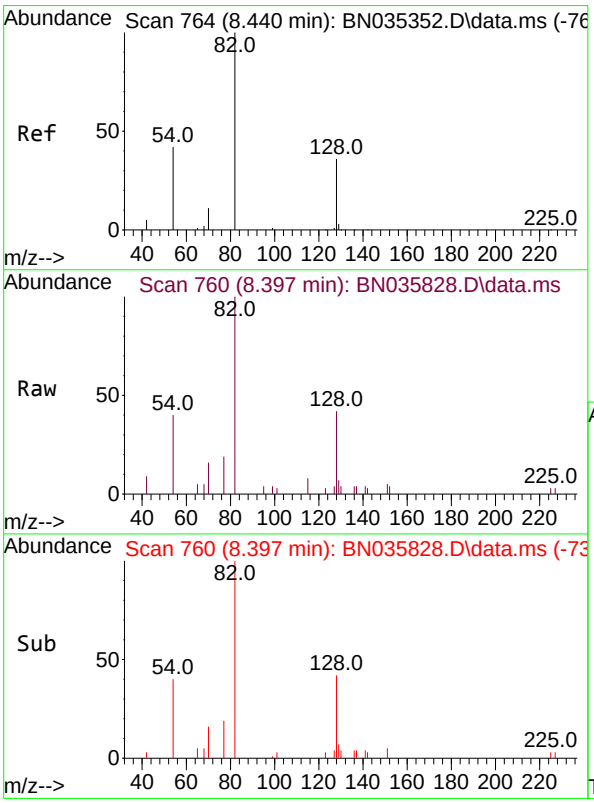
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

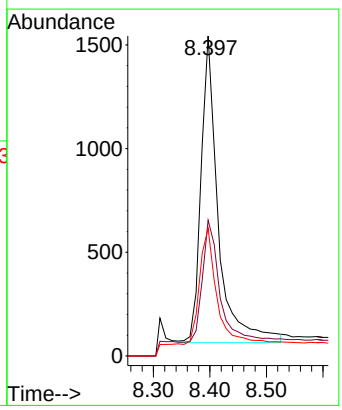
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

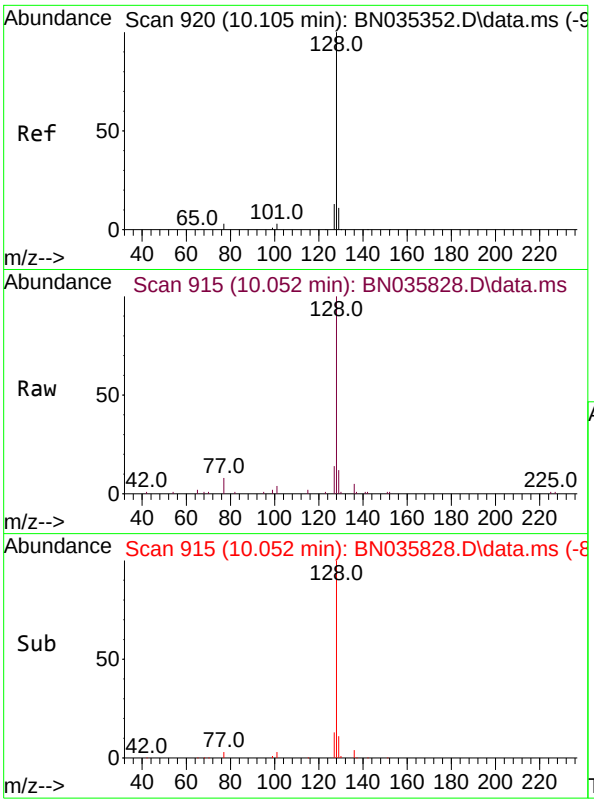


#8
Nitrobenzene-d5
Concen: 0.522 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3140

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	39.9	36.7	55.1

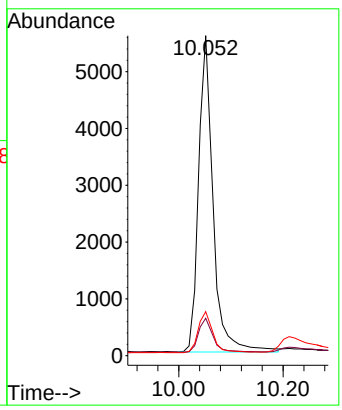




#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:128 Resp: 1077

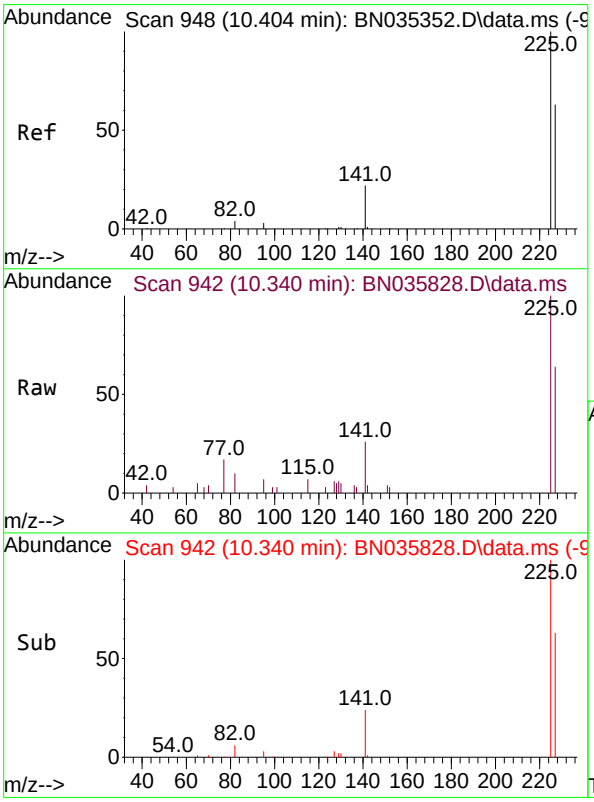
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.8	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

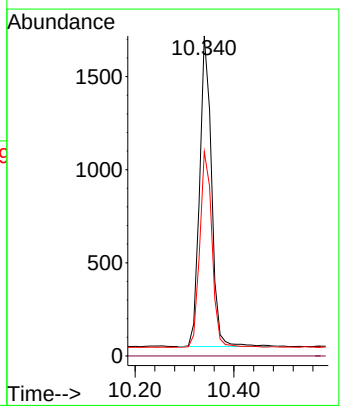
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

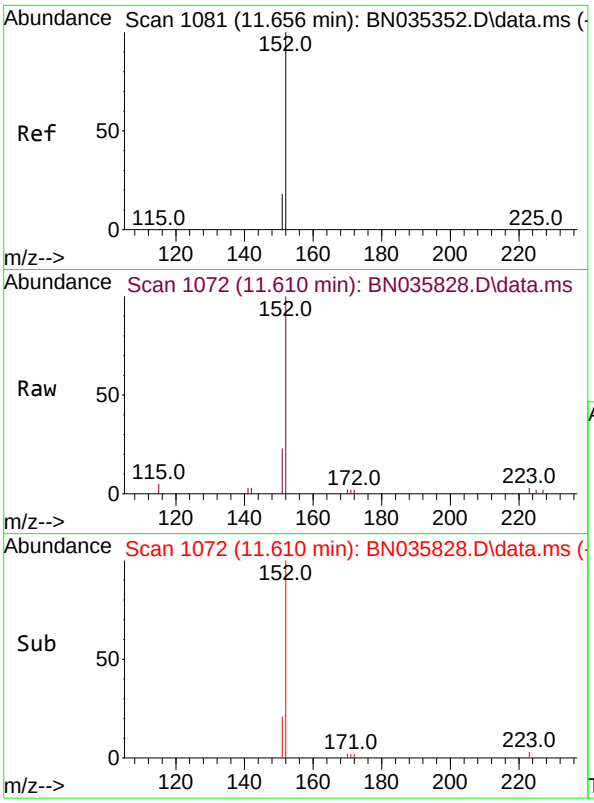


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9

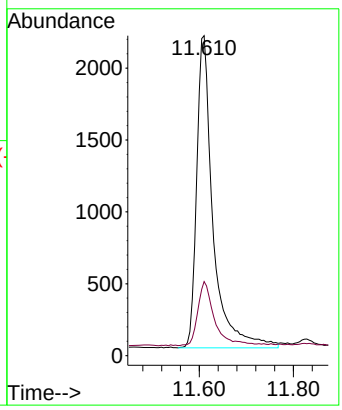




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 524

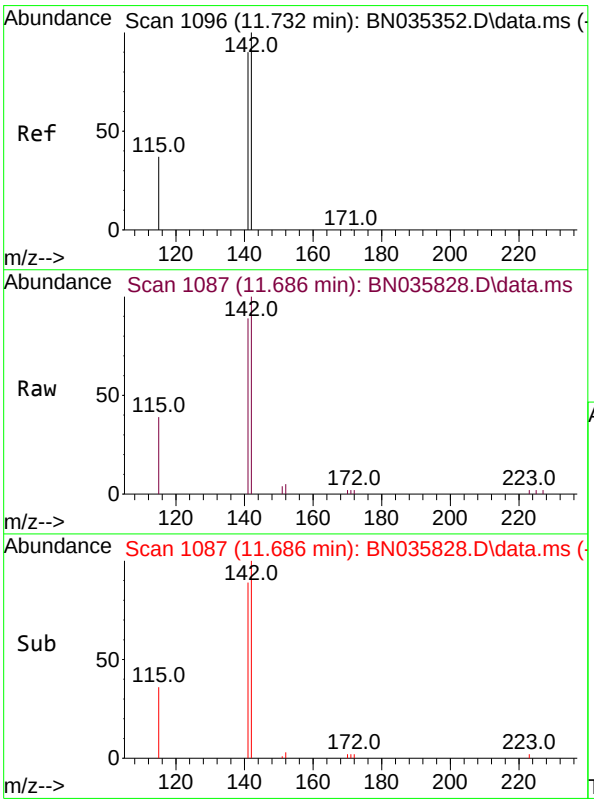
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

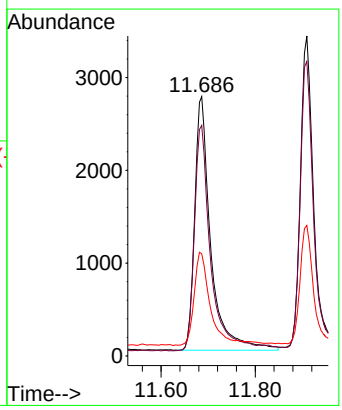
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

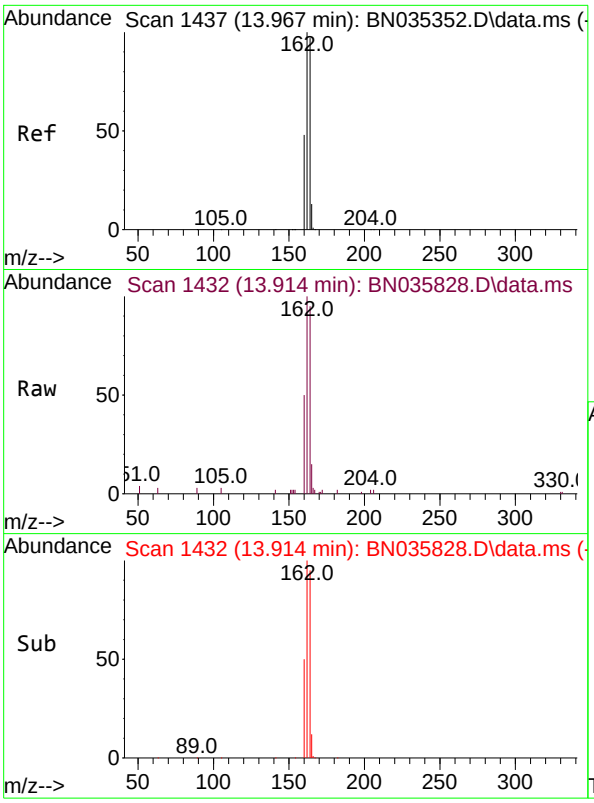


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

Ion	Ratio	Lower	Upper
142	100		
141	88.9	72.2	108.4
115	39.4	31.4	47.0

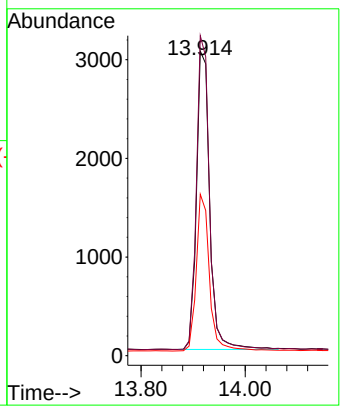




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:164 Resp: 537

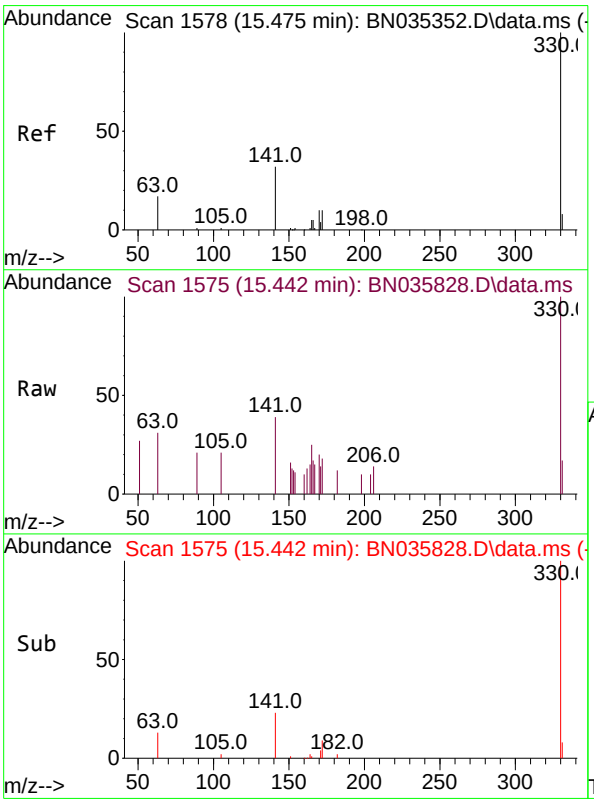
Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	53.0	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

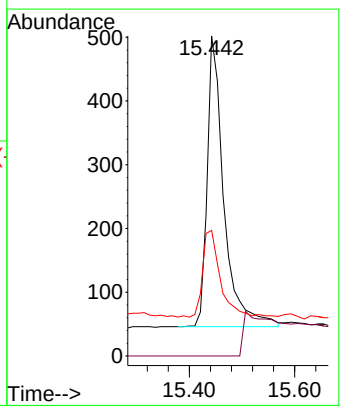
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

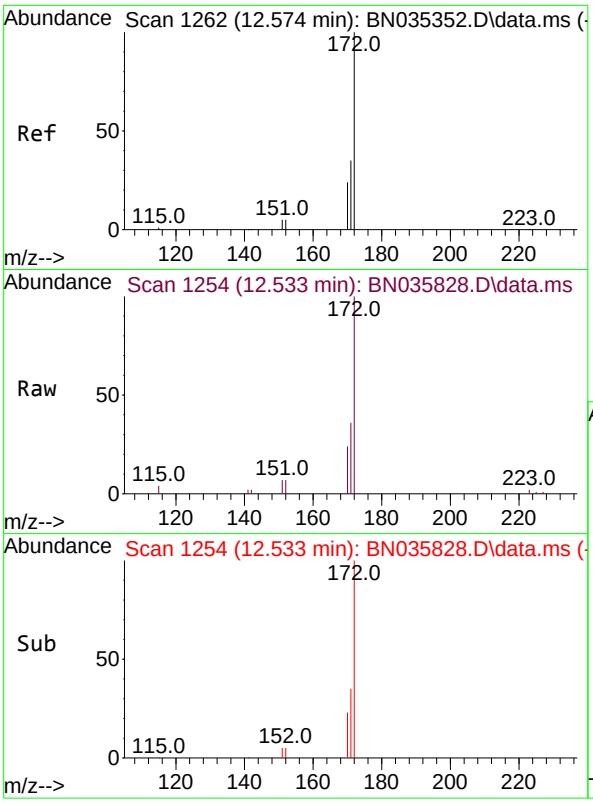


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.0	26.6	40.0

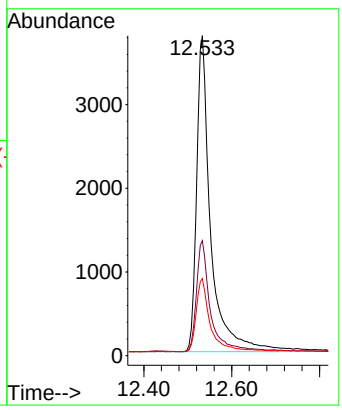




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:172 Resp: 840

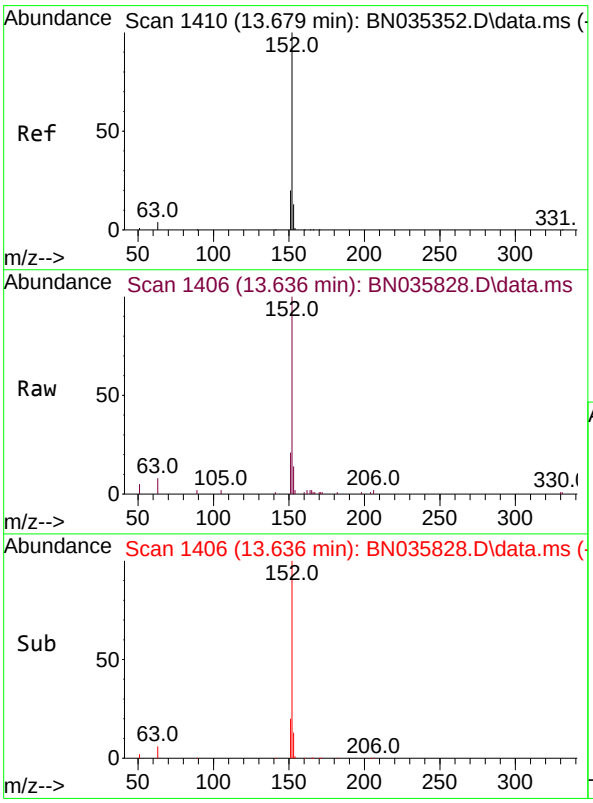
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

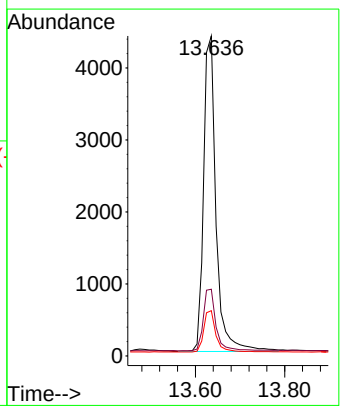
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

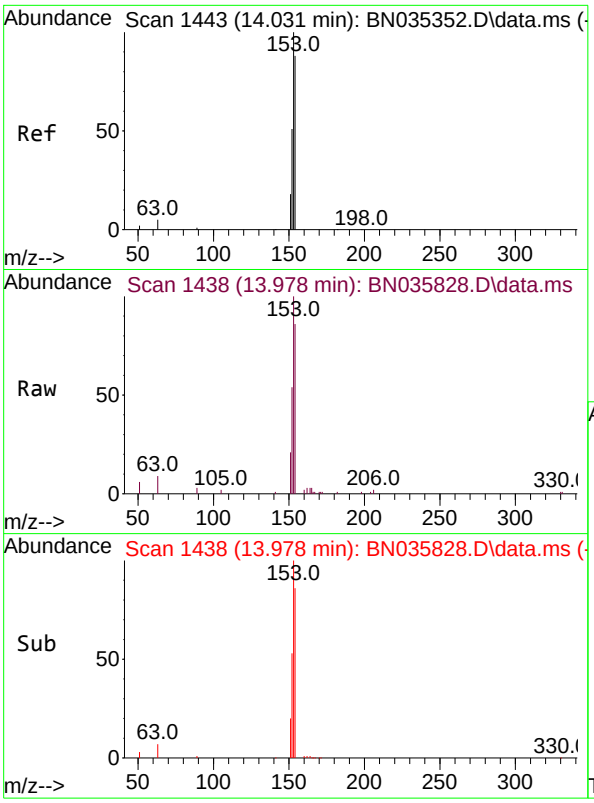


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6

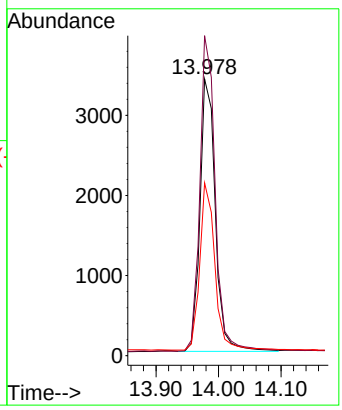




#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:154 Resp: 582

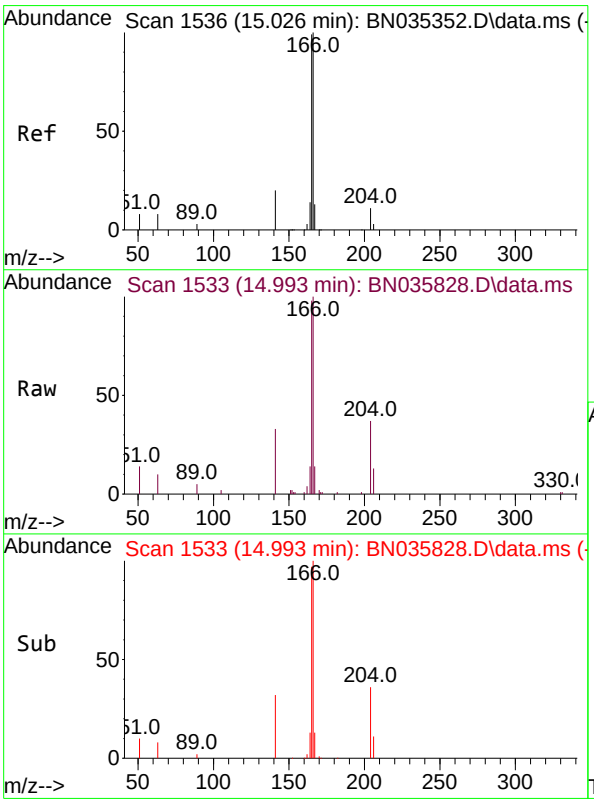
Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.8	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

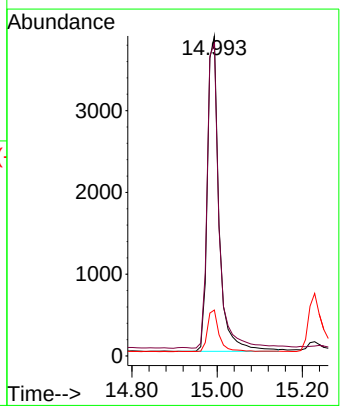
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

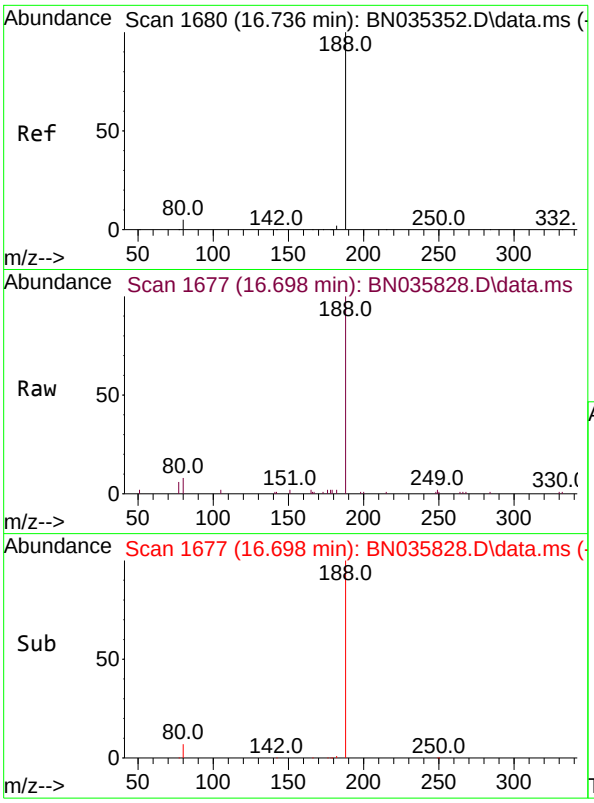


#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.0	10.8	16.2

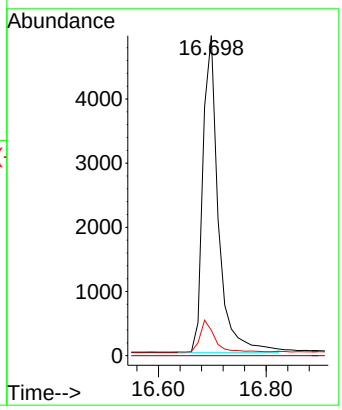




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:188 Resp: 990

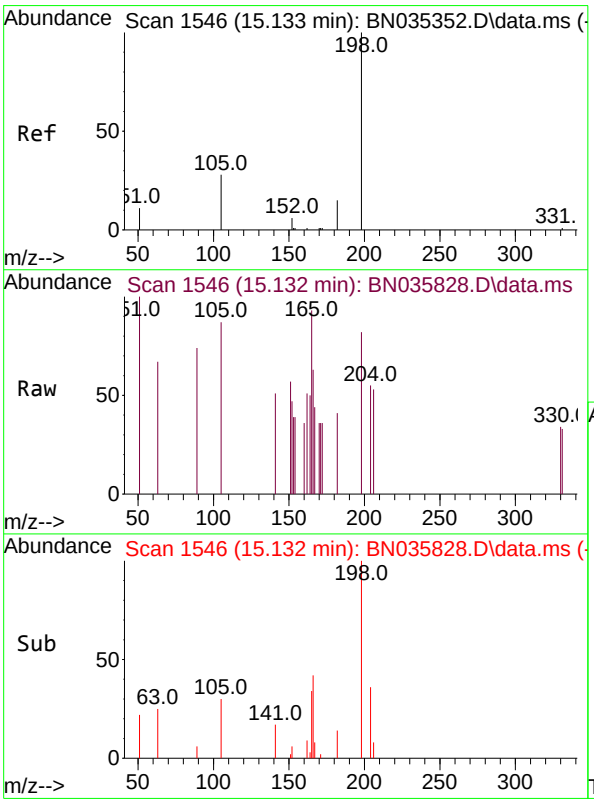
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

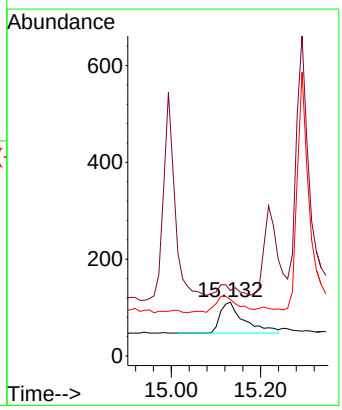
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

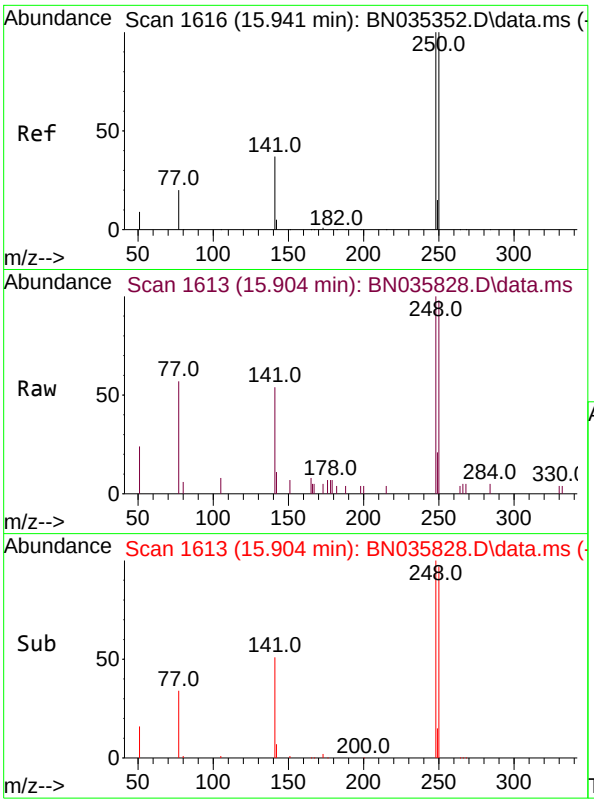


#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	121.6	46.5	69.7#
105	105.4	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

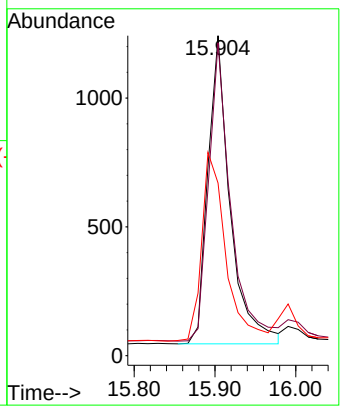
Tgt Ion:248 Resp: 228

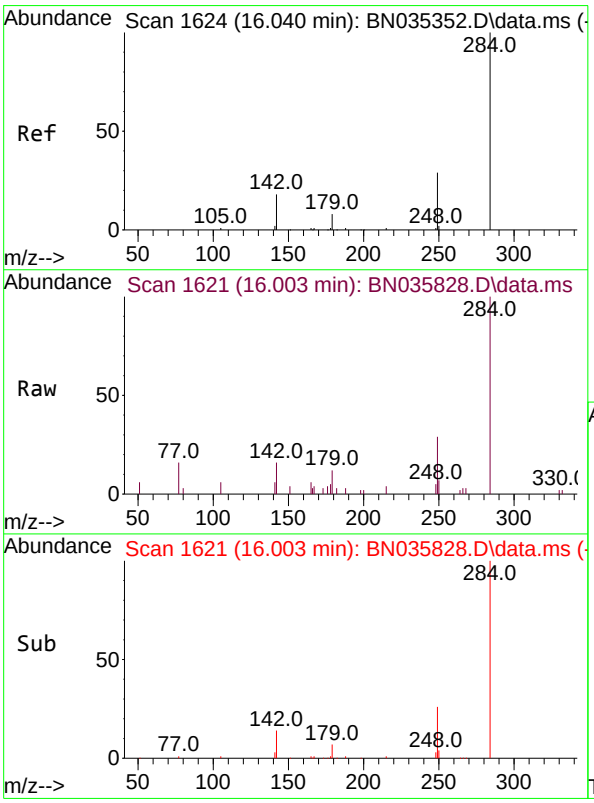
Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	53.9	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

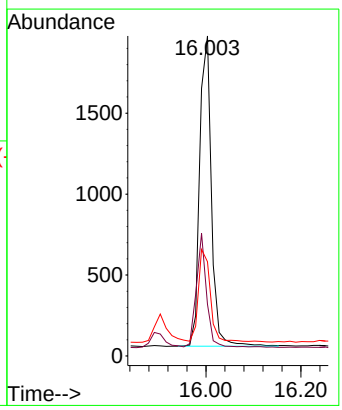


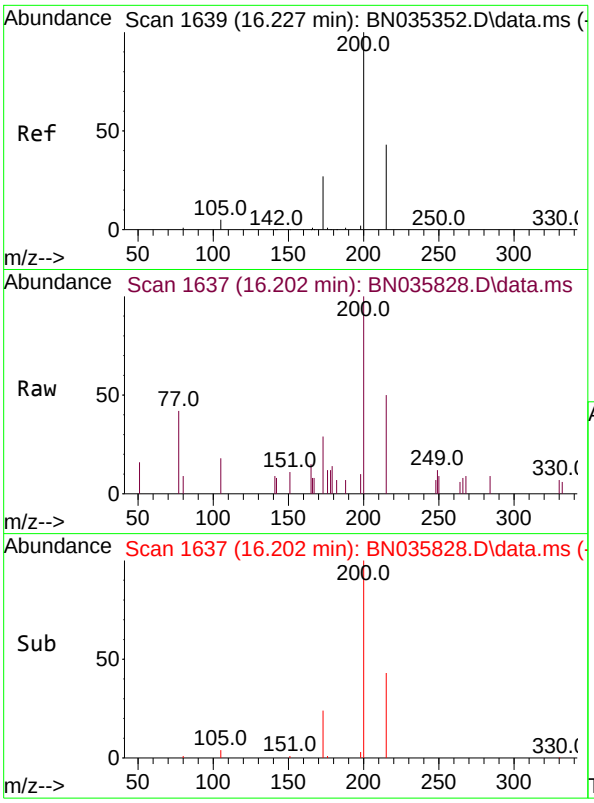


#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.7	40.1
249	30.7	24.6	36.8

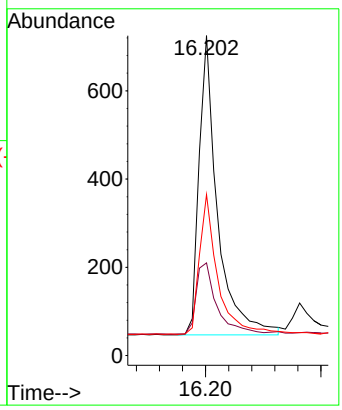




#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:200 Resp: 150

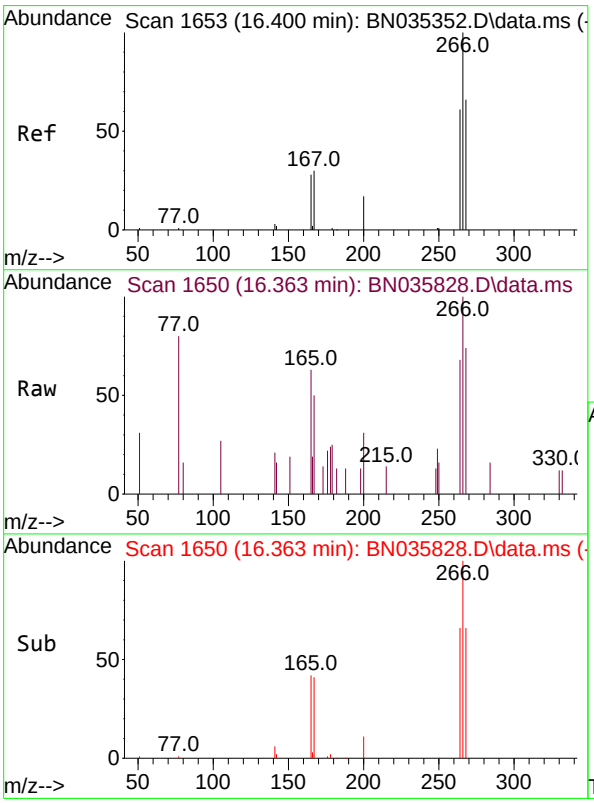
Ion	Ratio	Lower	Upper
200	100		
173	29.0	24.1	36.1
215	50.3	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

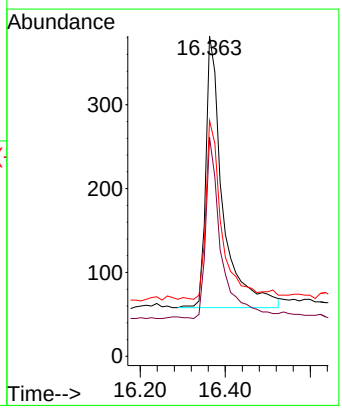
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

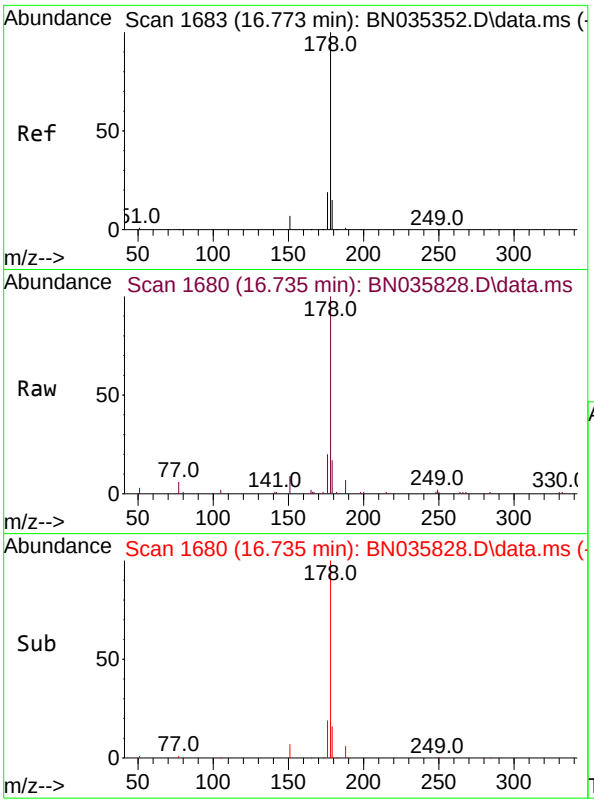


#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.1	43.3	64.9

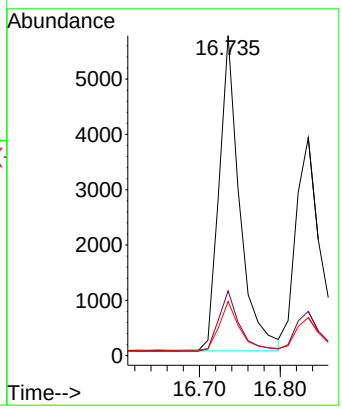




#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 1009

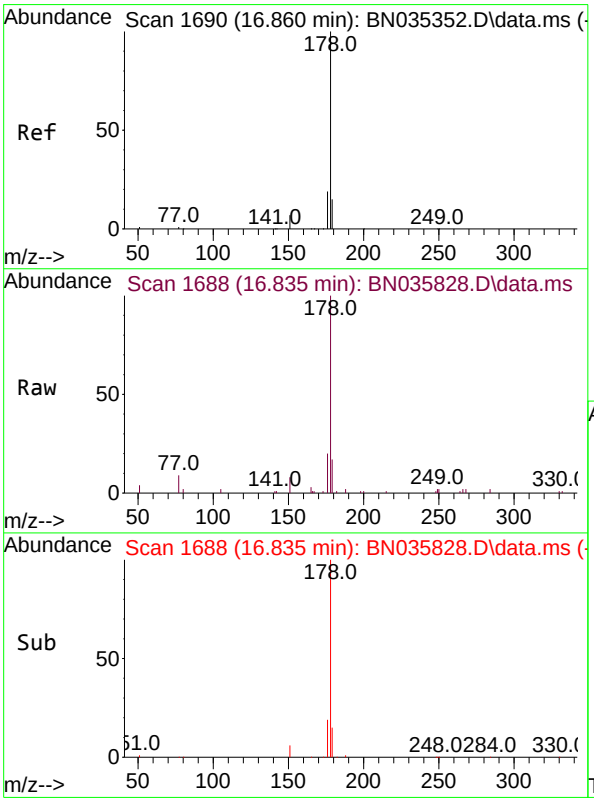
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

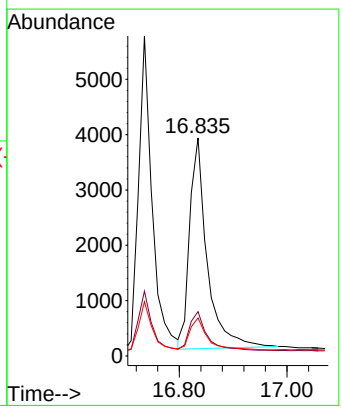
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

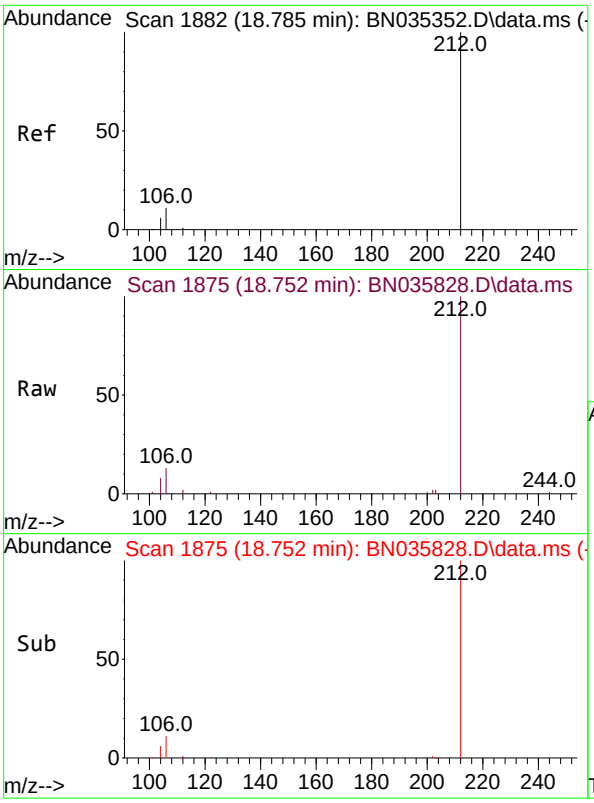


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8

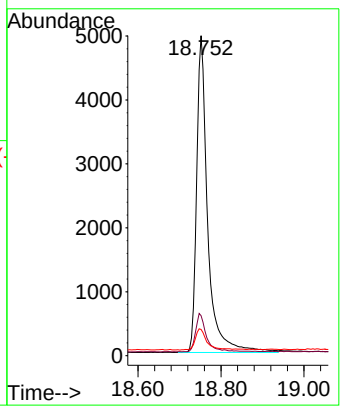




#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:212 Resp: 922

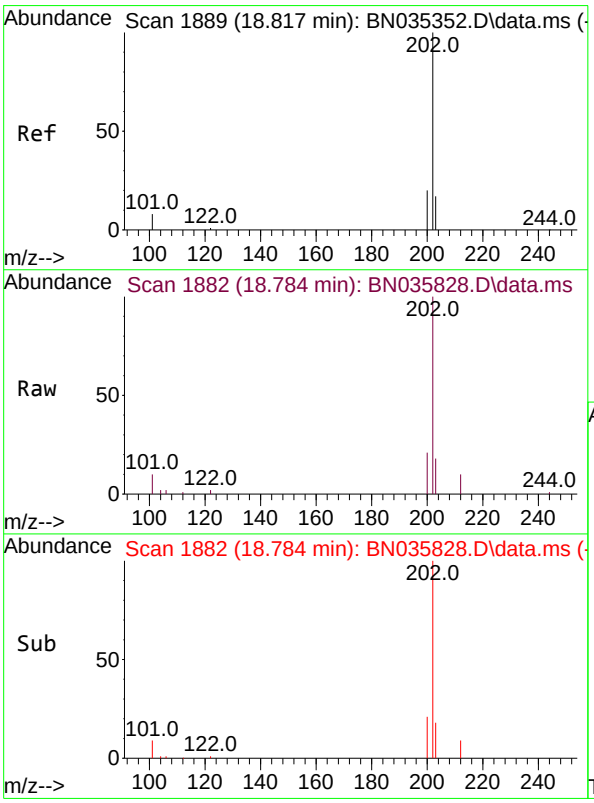
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	7.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

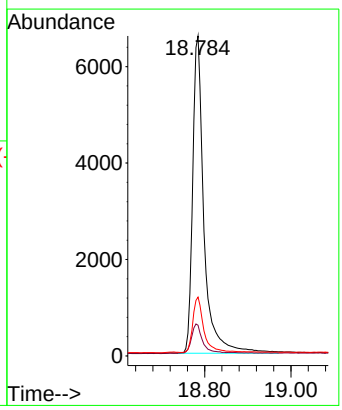
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

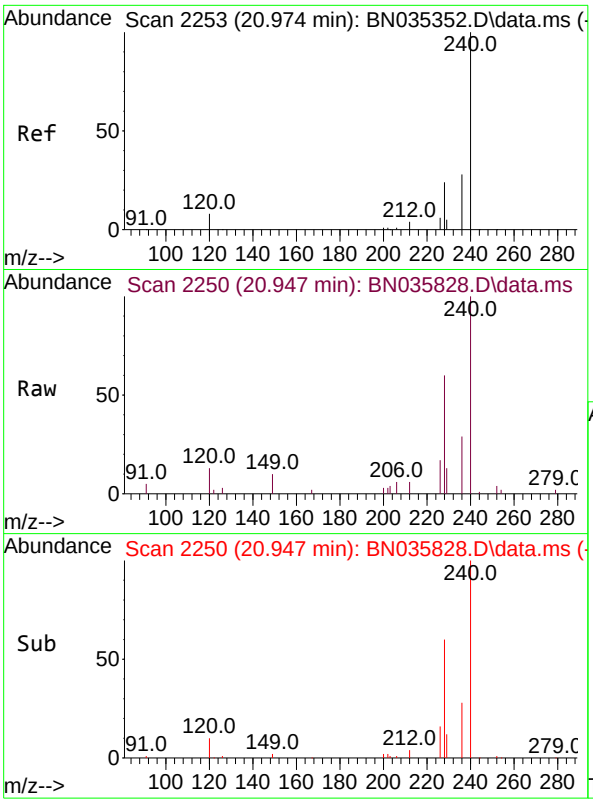


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.3	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

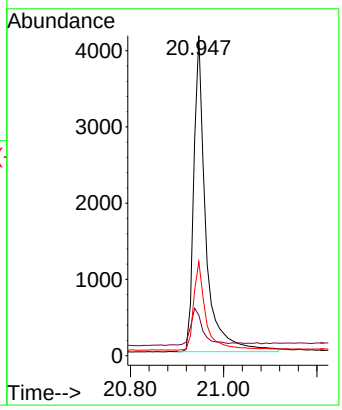
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

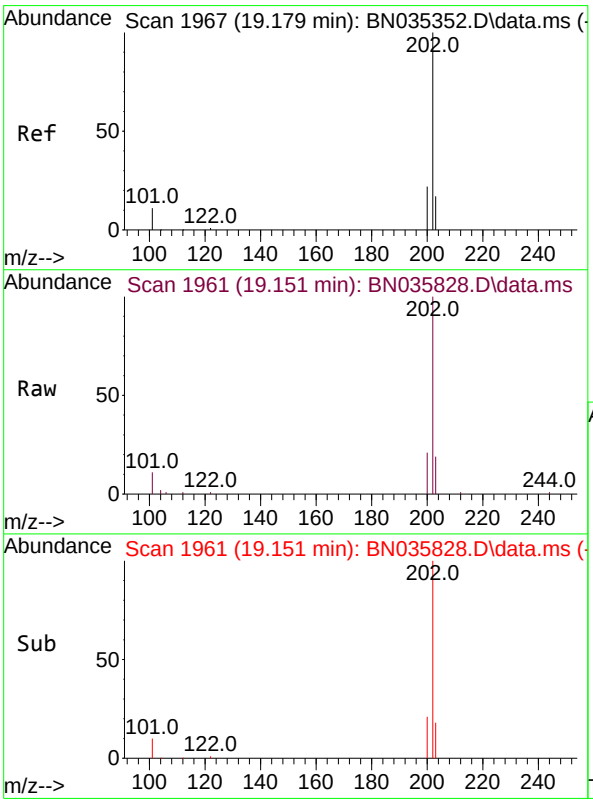
Tgt Ion:240 Resp: 744

Ion	Ratio	Lower	Upper
240	100		
120	12.6	7.9	11.9#
236	29.4	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

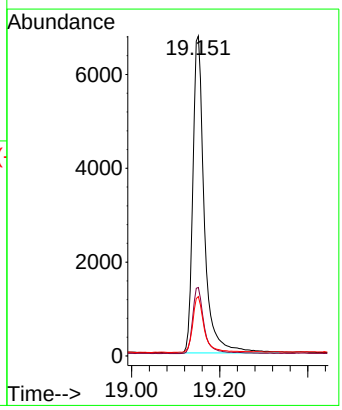


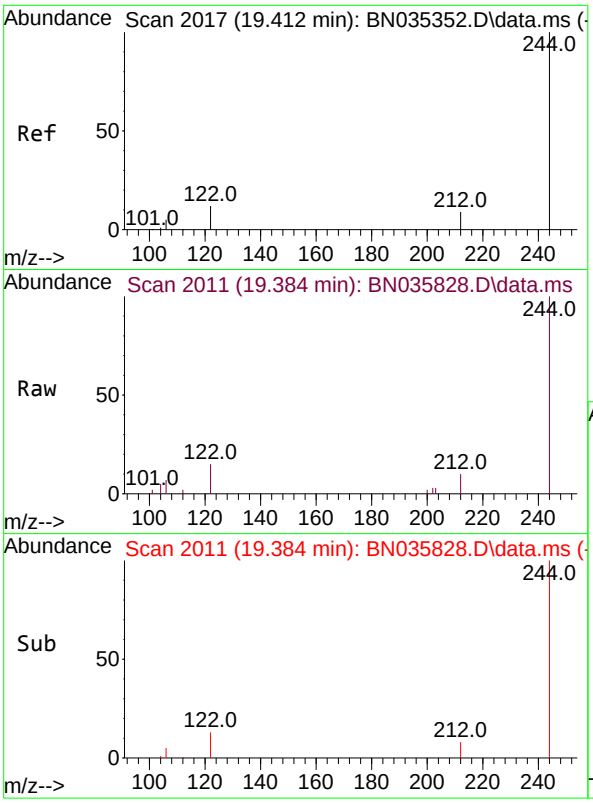


#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5

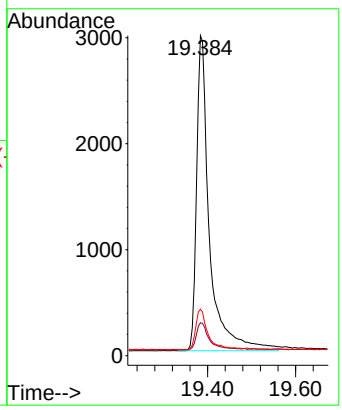




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:244 Resp: 602

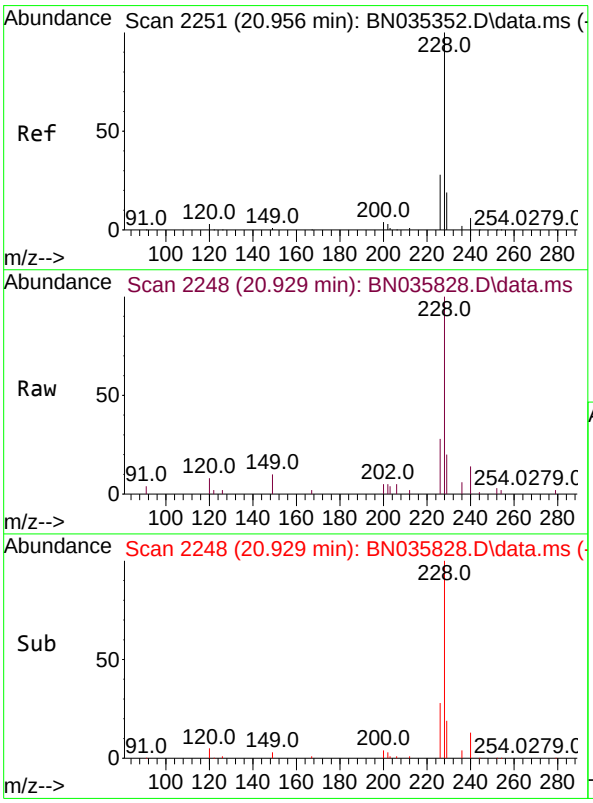
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

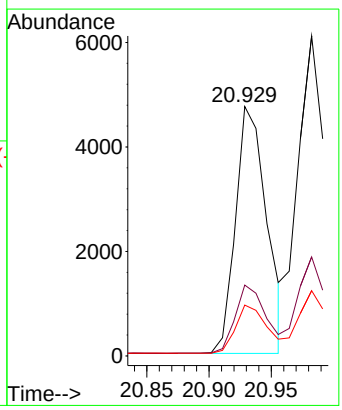
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

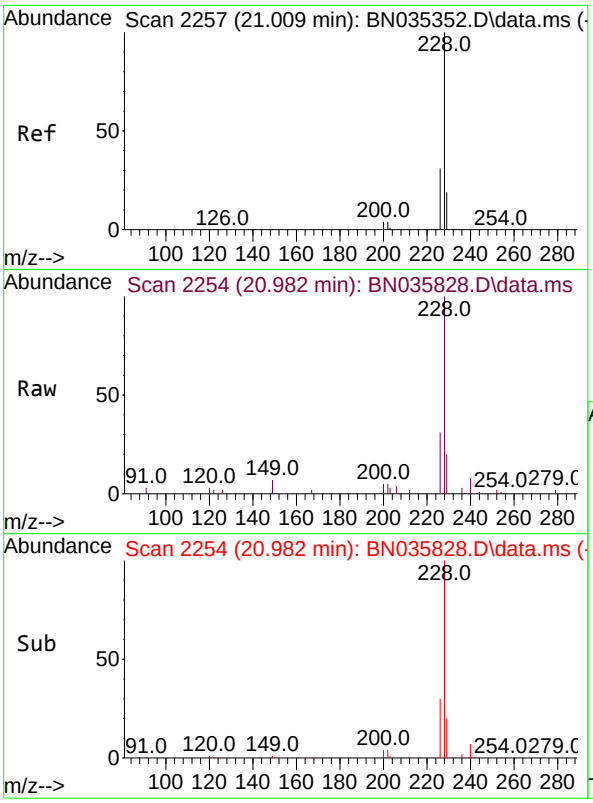


#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8

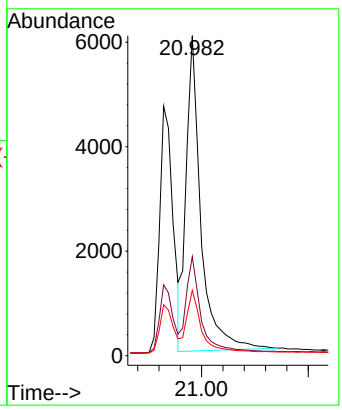




#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 1162

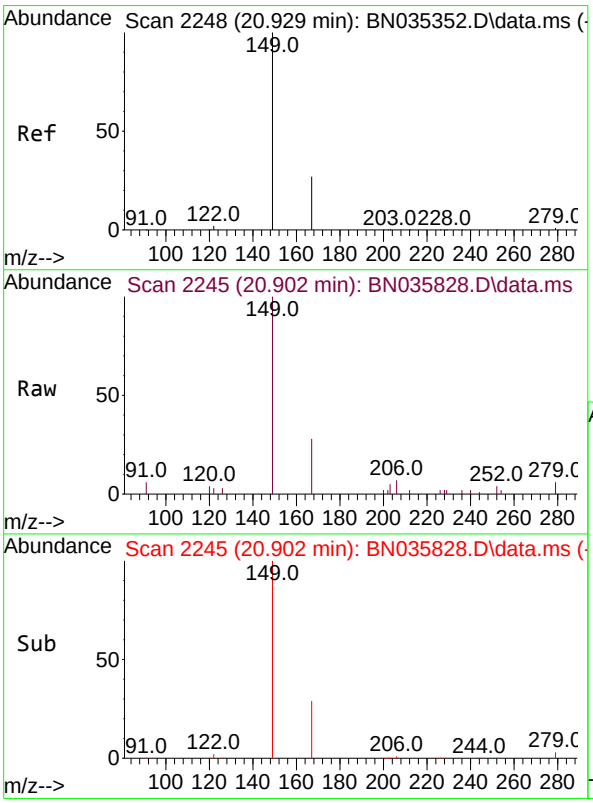
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	20.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

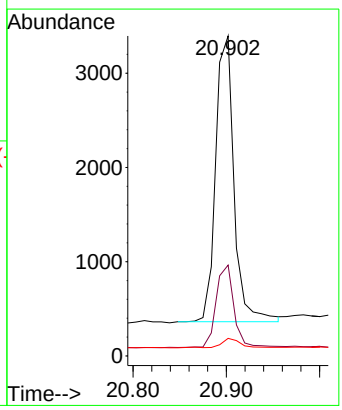
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

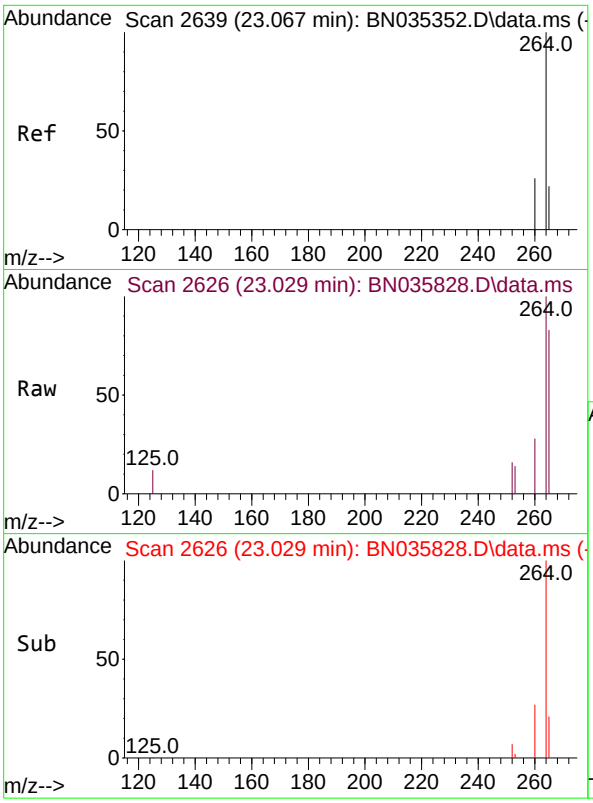


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

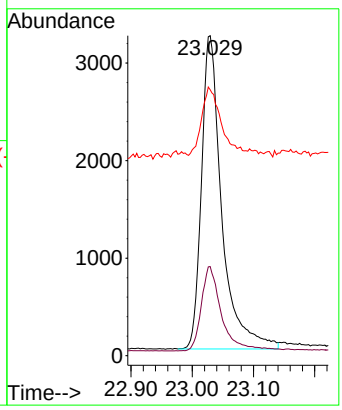
Tgt Ion:264 Resp: 742

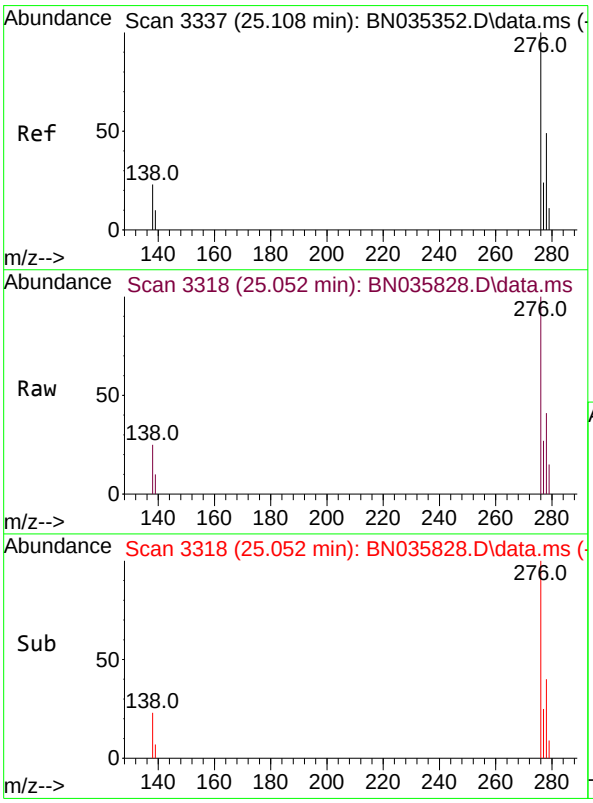
Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	83.1	40.2	60.4#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

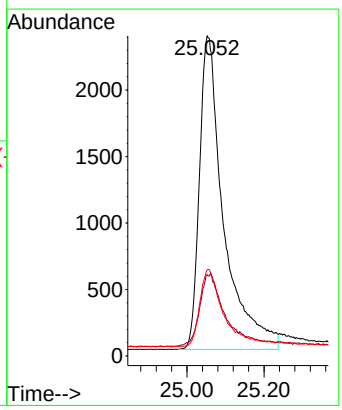


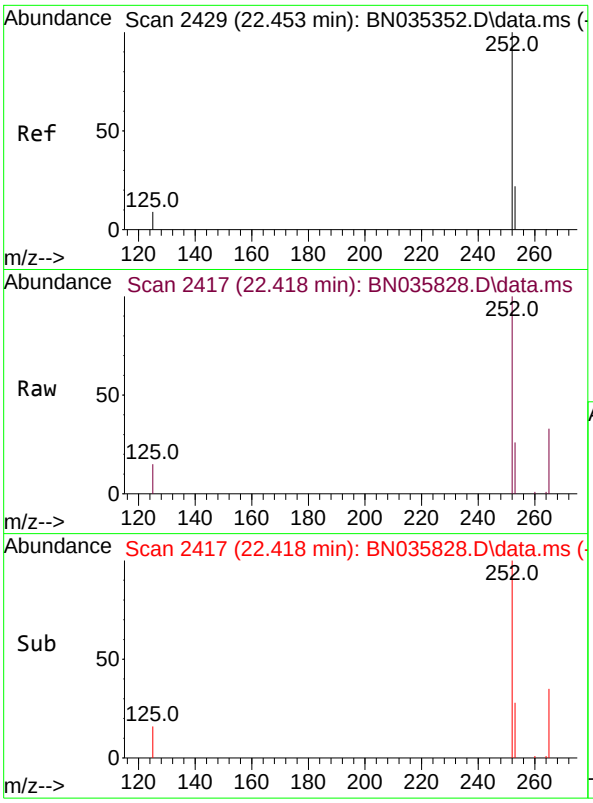


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

Ion	Ratio	Lower	Upper
276	100		
138	8.7	19.4	29.0#
277	22.9	19.8	29.6

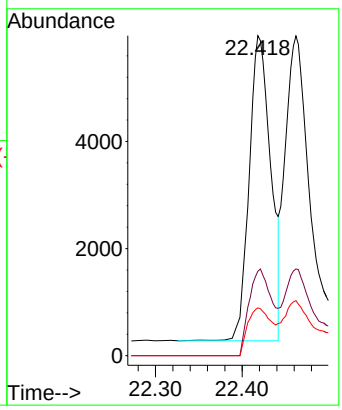




#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 1724

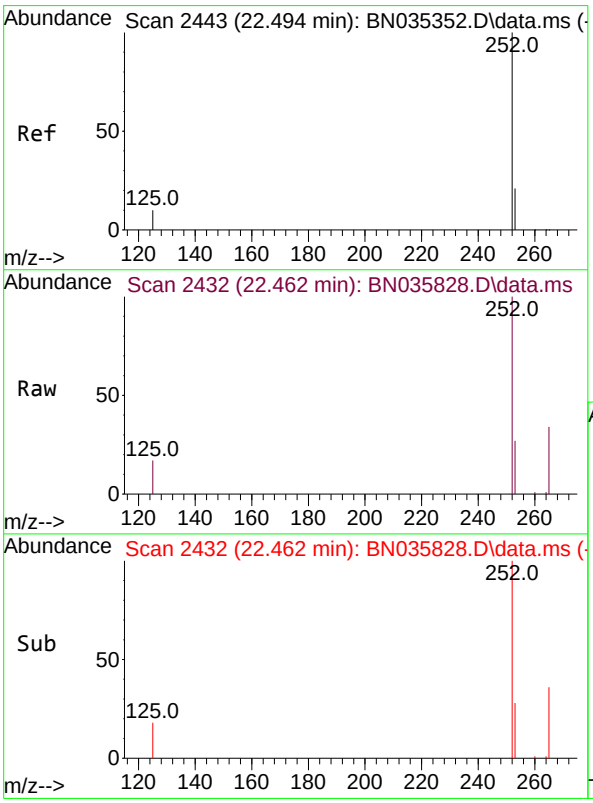
Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	15.0	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

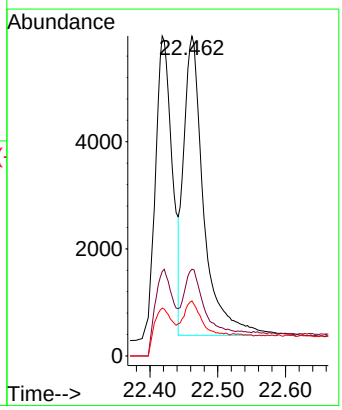
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

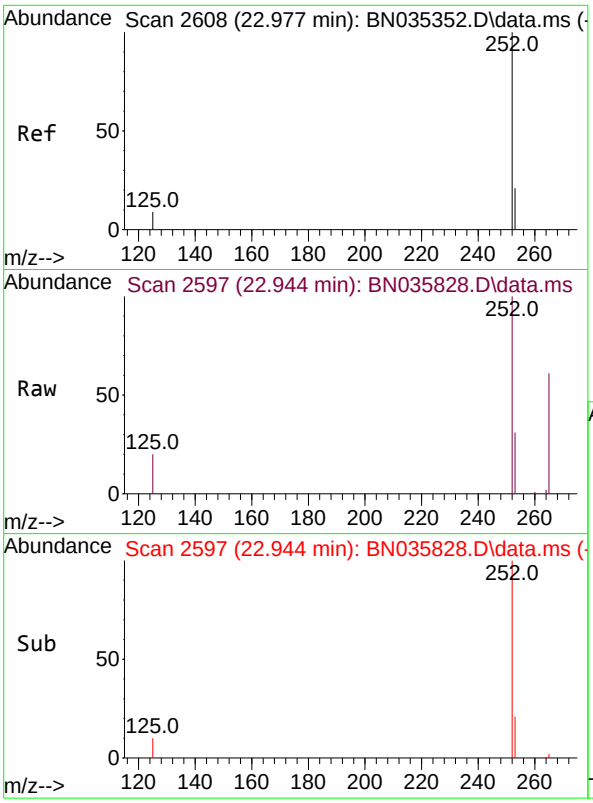


#38
Benzo(k)fluoranthene
Concen: 0.432 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 11542

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.5	29.3
125	17.2	10.2	15.4#

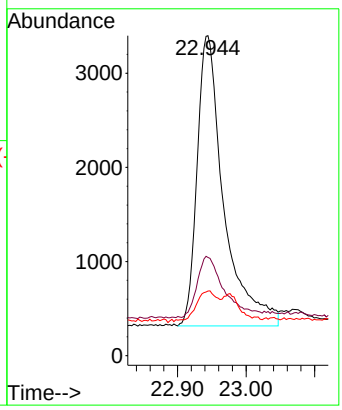




#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 833

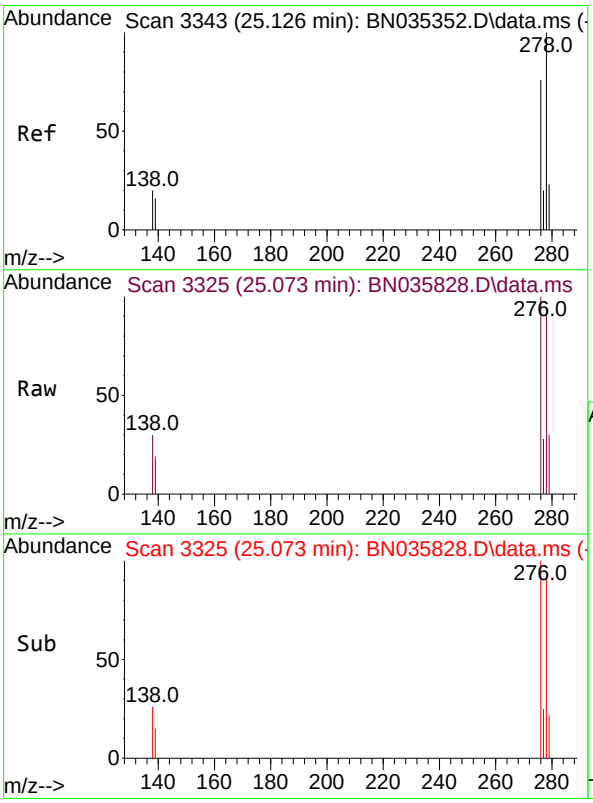
Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	20.2	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

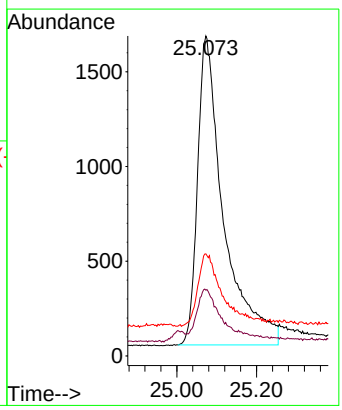
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

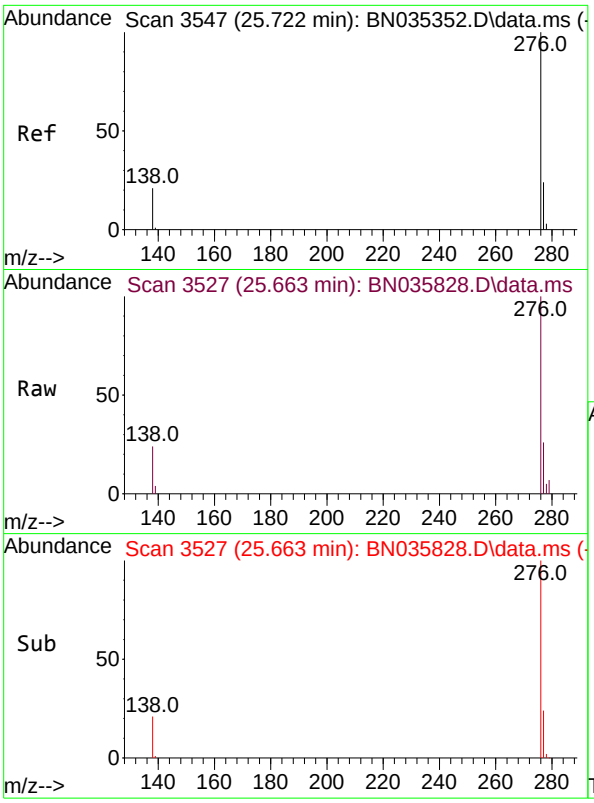


#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.2	21.4
279	31.9	20.5	30.7#

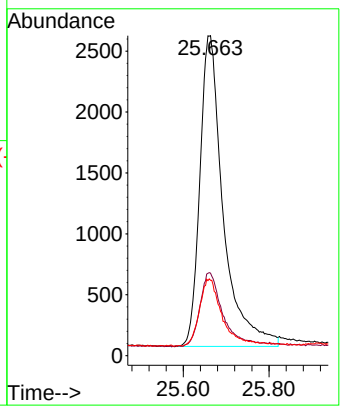




#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 965

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	23.6	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035828.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	196#	-0.02
2		1,4-Dioxane	0.382	0.501	-31.2#	260#	0.00
3		n-Nitrosodimethylamine	0.319	0.306	4.1	184#	0.00
4	S	2-Fluorophenol	1.001	0.895	10.6	172#	-0.01
5	S	Phenol-d6	1.204	1.524	-26.6#	250#	-0.02
6		bis(2-Chloroethyl)ether	1.012	1.030	-1.8	203#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	188#	-0.02
8	S	Nitrobenzene-d5	0.244	0.319	-30.7#	256#	-0.01
9		Naphthalene	1.055	1.095	-3.8	197#	-0.01
10		Hexachlorobutadiene	0.243	0.283	-16.5	215#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.533	14.9	162#	-0.01
12		2-Methylnaphthalene	0.755	0.661	12.5	168#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.194	31.7#	107	-0.01
15	S	2-Fluorobiphenyl	1.512	1.565	-3.5	147	-0.01
16		Acenaphthylene	1.680	1.573	6.4	140	-0.01
17		Acenaphthene	1.115	1.083	2.9	141	-0.02
18		Fluorene	1.596	1.361	14.7	125	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.024	38.5#	71	0.01
21		4-Bromophenyl-phenylether	0.234	0.231	1.3	107	-0.01
22		Hexachlorobenzene	0.275	0.333	-21.1	127	-0.01
23		Atrazine	0.167	0.152	9.0	103	0.00
24		Pentachlorophenol	0.120	0.091	24.2	99	-0.01
25		Phenanthrene	1.099	1.019	7.3	100	-0.01
26		Anthracene	0.994	0.870	12.5	97	0.00
27	SURR	Fluoranthene-d10	1.134	0.931	17.9	90	0.00
28		Fluoranthene	1.481	1.209	18.4	89	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30		Pyrene	1.477	1.641	-11.1	87	0.00
31	S	Terphenyl-d14	0.789	0.809	-2.5	80	0.00
32		Benzo(a)anthracene	1.399	1.102	21.2	64	0.00
33		Chrysene	1.443	1.561	-8.2	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.555	-0.4	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	68	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.387	11.3	62	-0.01
37		Benzo(b)fluoranthene	1.463	2.322	-58.7#	121	-0.01
38		Benzo(k)fluoranthene	1.440	1.554	-7.9	76	0.00
39	C	Benzo(a)pyrene	1.205	1.123	6.8	67	0.00
40		Dibenzo(a,h)anthracene	1.234	0.998	19.1	57	0.00
41		Benzo(g,h,i)perylene	1.289	1.300	-0.9	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN035828.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	196	-0.02
2		1,4-Dioxane	0.400	0.524	-31.0#	260	0.00
3		n-Nitrosodimethylamine	0.400	0.384	4.0	184	0.00
4	S	2-Fluorophenol	0.400	0.358	10.5	172	-0.01
5	S	Phenol-d6	0.400	0.506	-26.5#	250	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.407	-1.7	203	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	188	-0.02
8	S	Nitrobenzene-d5	0.400	0.522	-30.5#	256	-0.01
9		Naphthalene	0.400	0.415	-3.7	197	-0.01
10		Hexachlorobutadiene	0.400	0.465	-16.3	215	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.341	14.8	162	-0.01
12		2-Methylnaphthalene	0.400	0.350	12.5	168	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.273	31.8#	107	-0.01
15	S	2-Fluorobiphenyl	0.400	0.414	-3.5	147	-0.01
16		Acenaphthylene	0.400	0.375	6.3	140	-0.01
17		Acenaphthene	0.400	0.389	2.8	141	-0.02
18		Fluorene	0.400	0.341	14.8	125	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	104	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.245	38.8#	71	0.01
21		4-Bromophenyl-phenylether	0.400	0.395	1.3	107	-0.01
22		Hexachlorobenzene	0.400	0.484	-21.0	127	-0.01
23		Atrazine	0.400	0.365	8.8	103	0.00
24		Pentachlorophenol	0.400	0.303	24.3	99	-0.01
25		Phenanthrene	0.400	0.371	7.3	100	-0.01
26		Anthracene	0.400	0.350	12.5	97	0.00
27	SURR	Fluoranthene-d10	0.400	0.328	18.0	90	0.00
28		Fluoranthene	0.400	0.326	18.5	89	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30		Pyrene	0.400	0.445	-11.2	87	0.00
31	S	Terphenyl-d14	0.400	0.410	-2.5	80	0.00
32		Benzo(a)anthracene	0.400	0.315	21.3	64	0.00
33		Chrysene	0.400	0.433	-8.2	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	84	0.00
35	I	Perylene-d12	0.400	0.400	0.0	68	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.355	11.3	62	-0.01
37		Benzo(b)fluoranthene	0.400	0.635	-58.7#	121	-0.01
38		Benzo(k)fluoranthene	0.400	0.432	-8.0	76	0.00
39	C	Benzo(a)pyrene	0.400	0.373	6.8	67	0.00
40		Dibenzo(a,h)anthracene	0.400	0.323	19.3	57	0.00
41		Benzo(g,h,i)perylene	0.400	0.403	-0.8	71	-0.01

(#) = 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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 09:58

Lab File ID: BN035845.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.545		-12.9	20.0
Fluoranthene-d10	1.134	0.991		-12.6	20.0
2-Fluorophenol	1.001	1.006		0.5	20.0
Phenol-d6	1.204	1.112		-7.6	20.0
Nitrobenzene-d5	0.244	0.298		22.1	20.0
2-Fluorobiphenyl	1.512	1.504		-0.5	20.0
2,4,6-Tribromophenol	0.284	0.248		-12.7	20.0
Terphenyl-d14	0.789	0.784		-0.6	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng		#-0.02
35) Perylene-d12	23.021	264	10817	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3777	0.402	ng		-0.01
5) Phenol-d6	6.470	99	4175	0.369	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2776m	0.488	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348	ng		-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350	ng		-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398	ng		-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350	ng		-0.02
31) Terphenyl-d14	19.375	244	7783	0.397	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1520	0.423	ng		97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409	ng	#	82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379	ng		99
9) Naphthalene	10.041	128	9440	0.384	ng		100
10) Hexachlorobutadiene	10.340	225	2352	0.415	ng	#	99
12) 2-Methylnaphthalene	11.676	142	5939	0.337	ng		98
16) Acenaphthylene	13.625	152	8340	0.369	ng		100
17) Acenaphthene	13.978	154	5695	0.379	ng		99
18) Fluorene	14.983	166	7523	0.350	ng		99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475	ng	#	39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371	ng	#	87
22) Hexachlorobenzene	15.991	284	3482	0.450	ng		95
23) Atrazine	16.189	200	1843	0.393	ng		97
24) Pentachlorophenol	16.363	266	1383	0.411	ng		87
25) Phenanthrene	16.723	178	11602	0.375	ng		100
26) Anthracene	16.822	178	10005	0.358	ng		100
28) Fluoranthene	18.775	202	14489	0.347	ng		98
30) Pyrene	19.142	202	15278	0.417	ng		100
32) Benzo(a)anthracene	20.920	228	12798	0.368	ng		100
33) Chrysene	20.974	228	14214	0.397	ng		100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458	ng		100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377	ng		97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494	ng	#	96
38) Benzo(k)fluoranthene	22.453	252	16469m	0.423	ng		
39) Benzo(a)pyrene	22.933	252	12458	0.382	ng	#	92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380	ng		96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419	ng		98

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

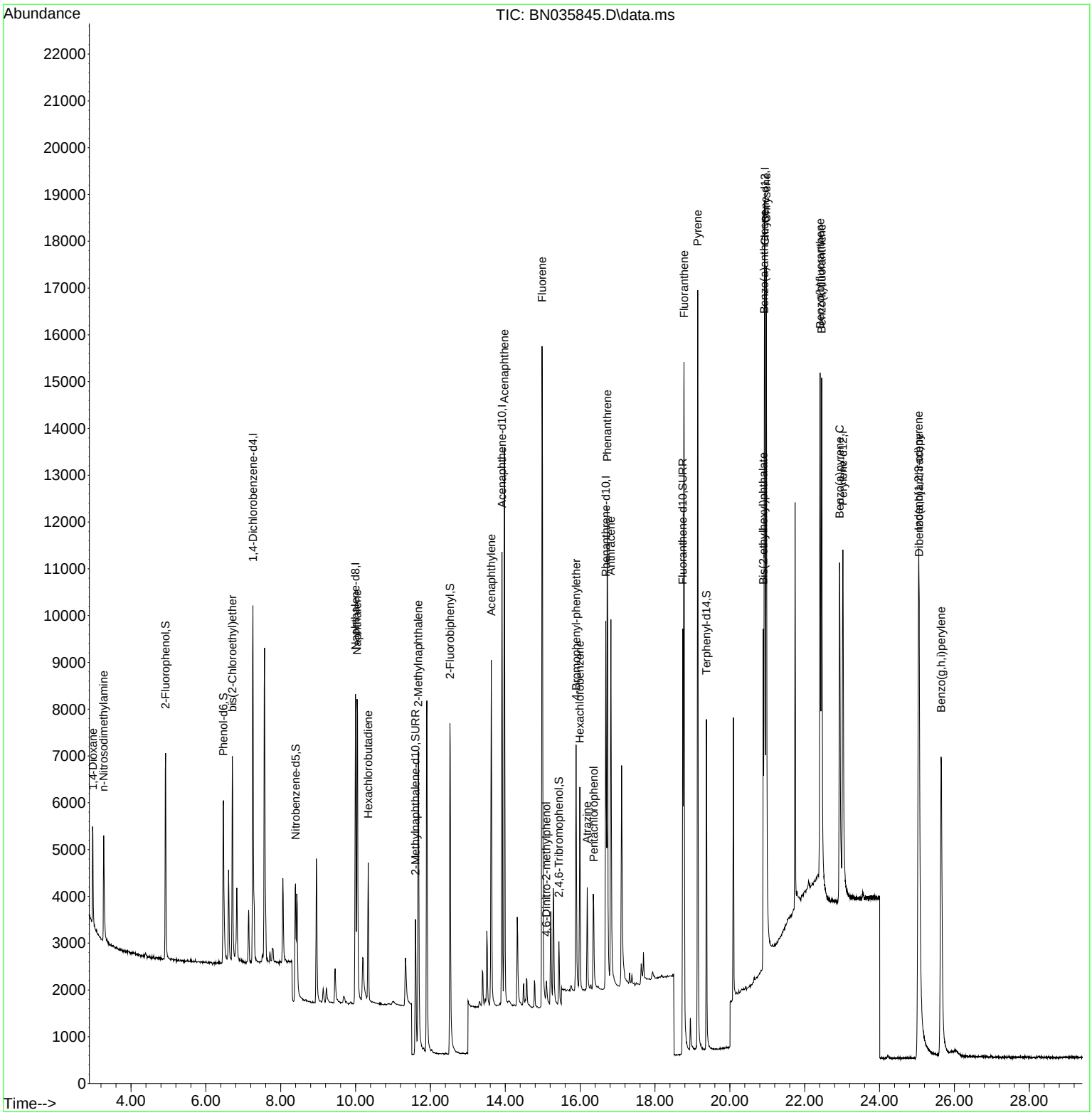
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

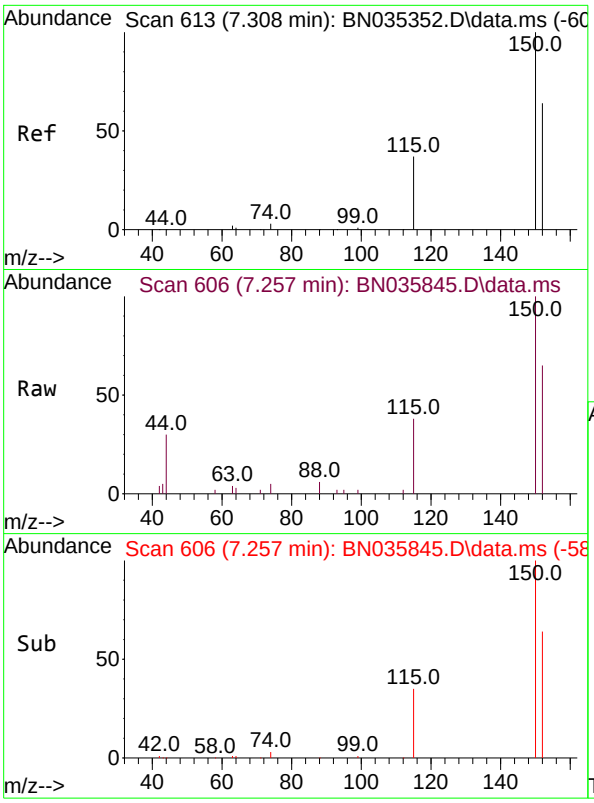
Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

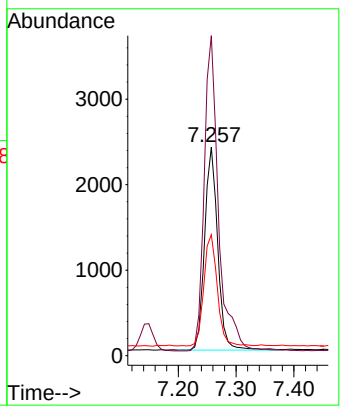




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 375

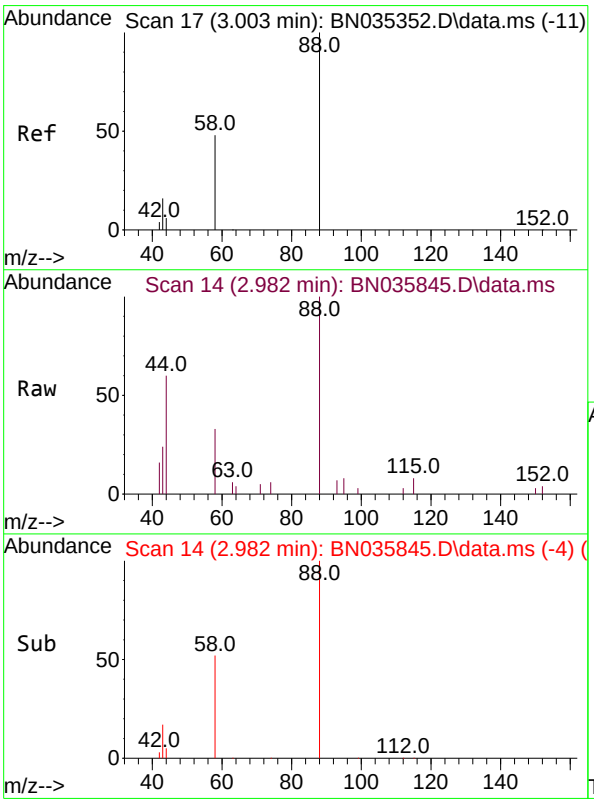
Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

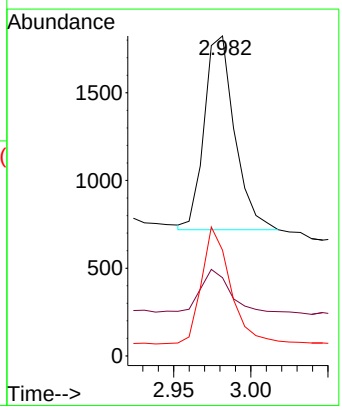
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

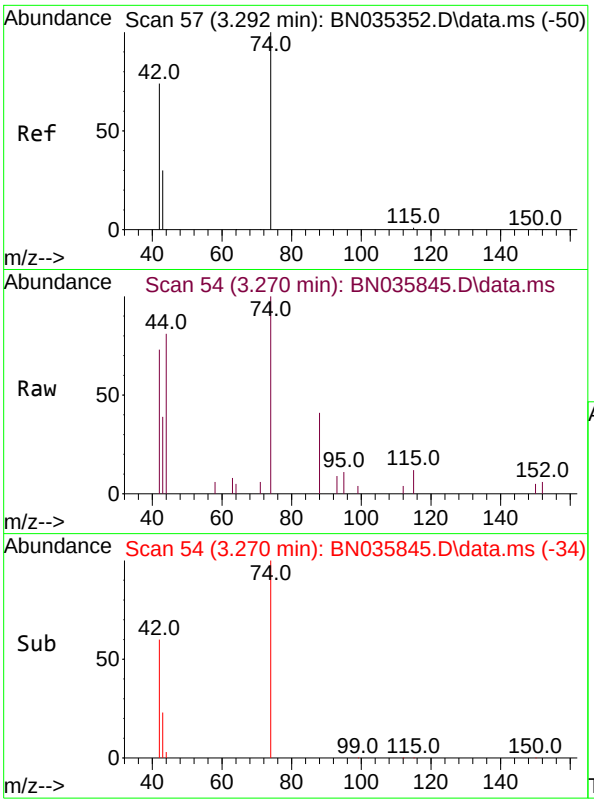


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7

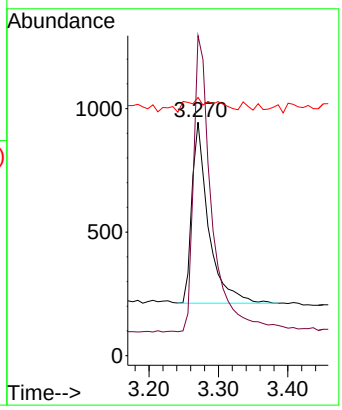




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 42 Resp: 122

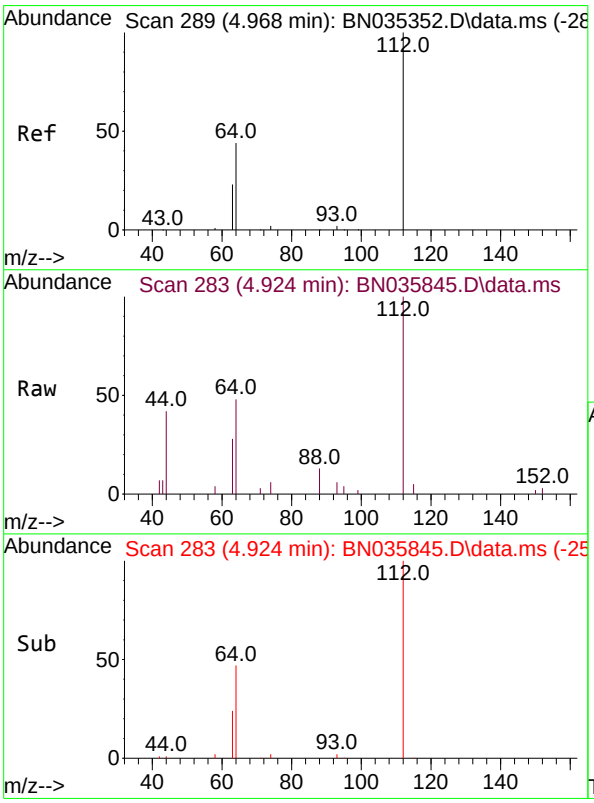
Ion	Ratio	Lower	Upper
42	100		
74	179.4	124.9	187.3
44	16.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

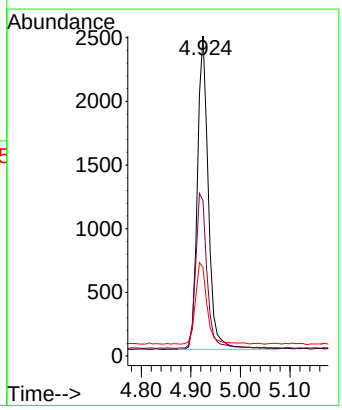
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

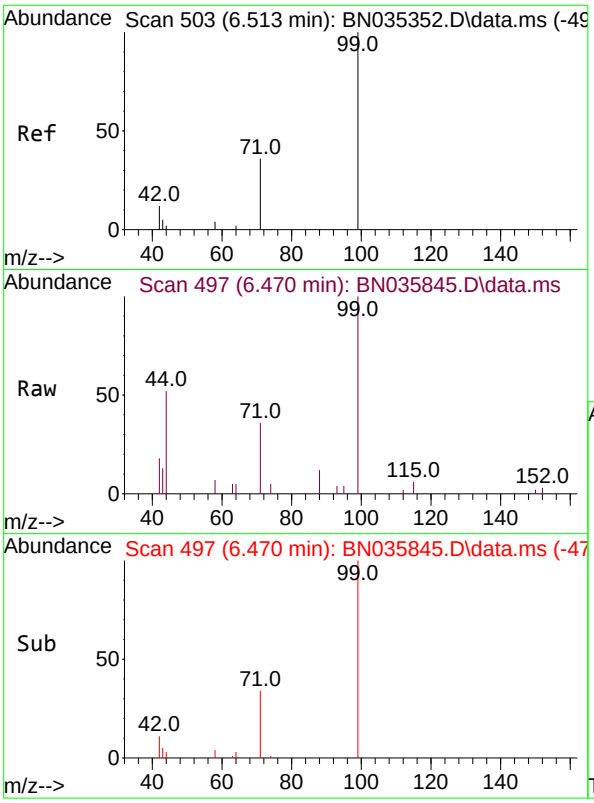


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.5	21.0	31.6

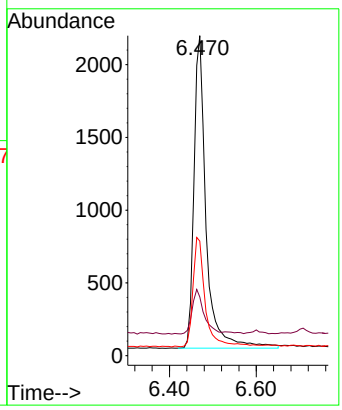




#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 99 Resp: 417

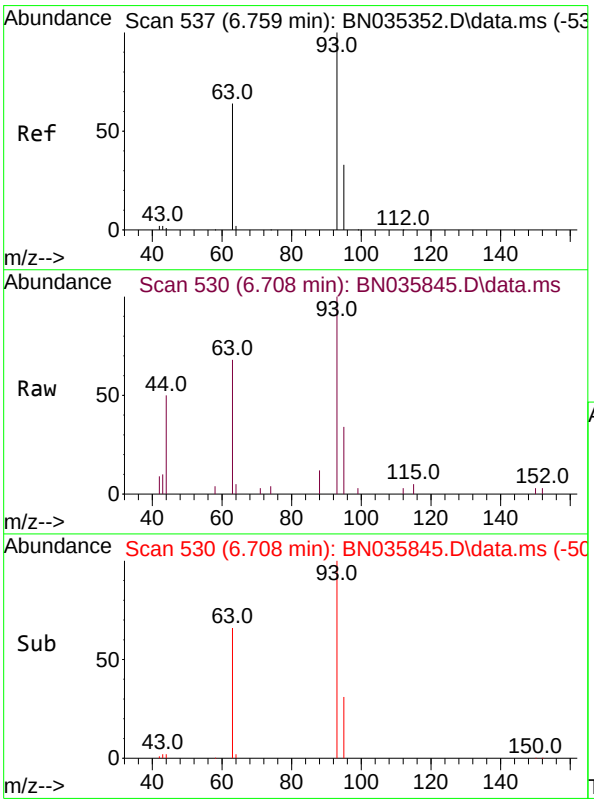
Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

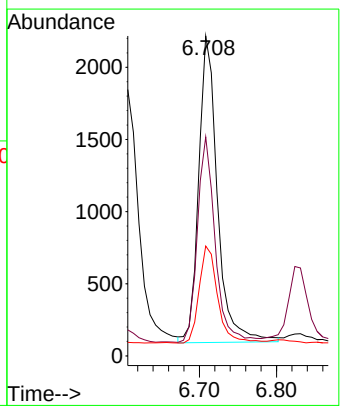
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

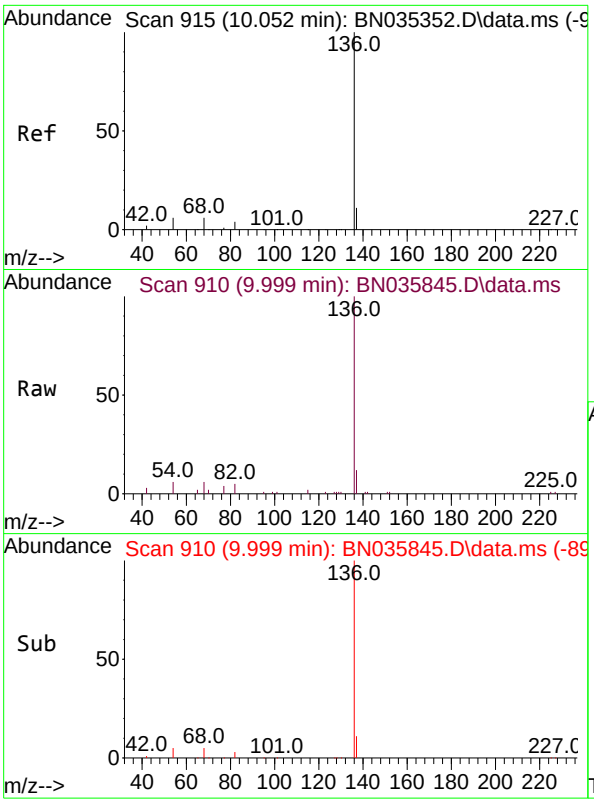


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5

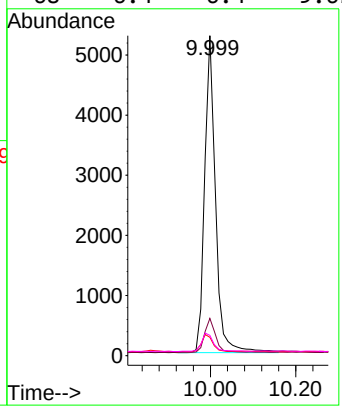




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:136 Resp: 932

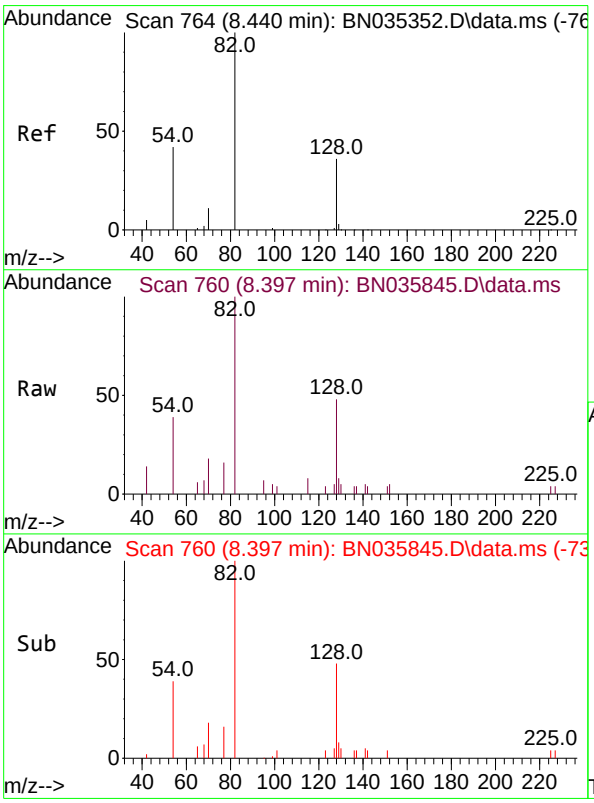
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1#
68	6.4	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

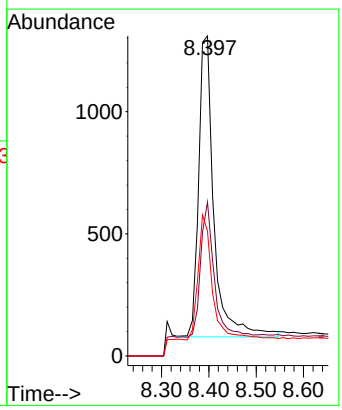
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

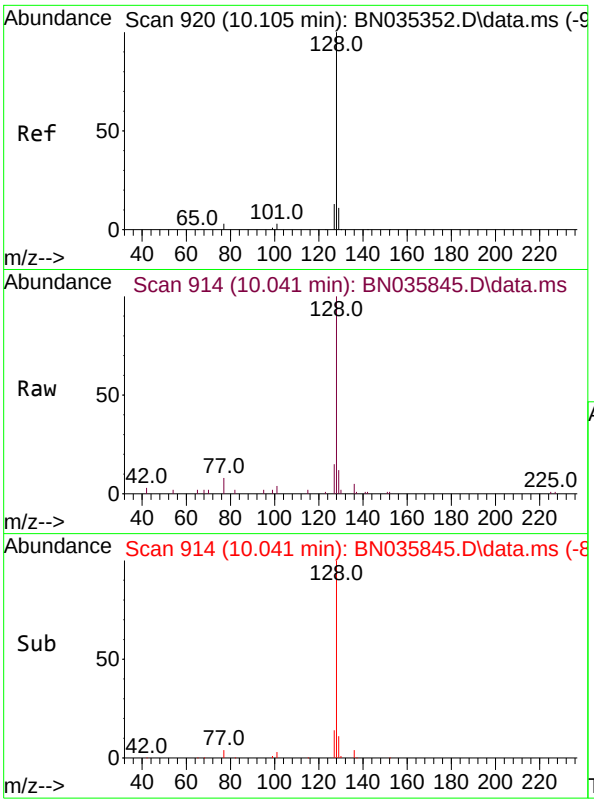


#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 2776

Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1





#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

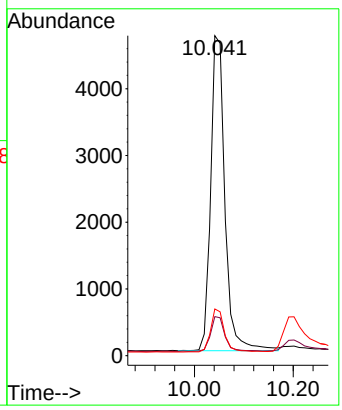
Tgt Ion:128 Resp: 944

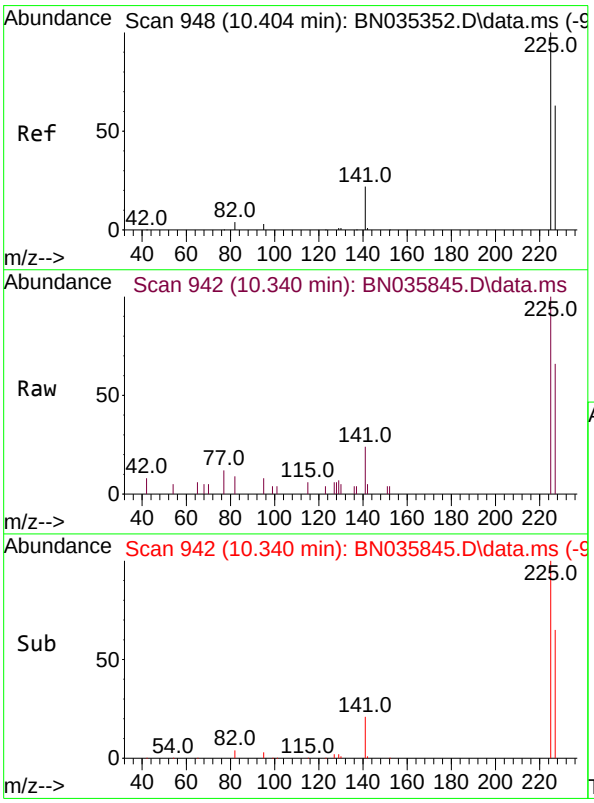
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

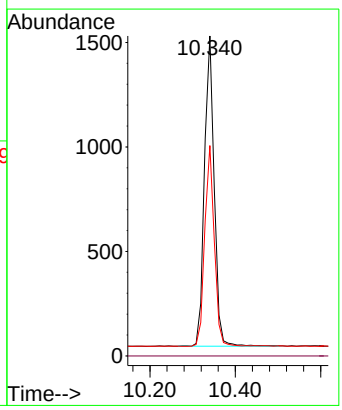


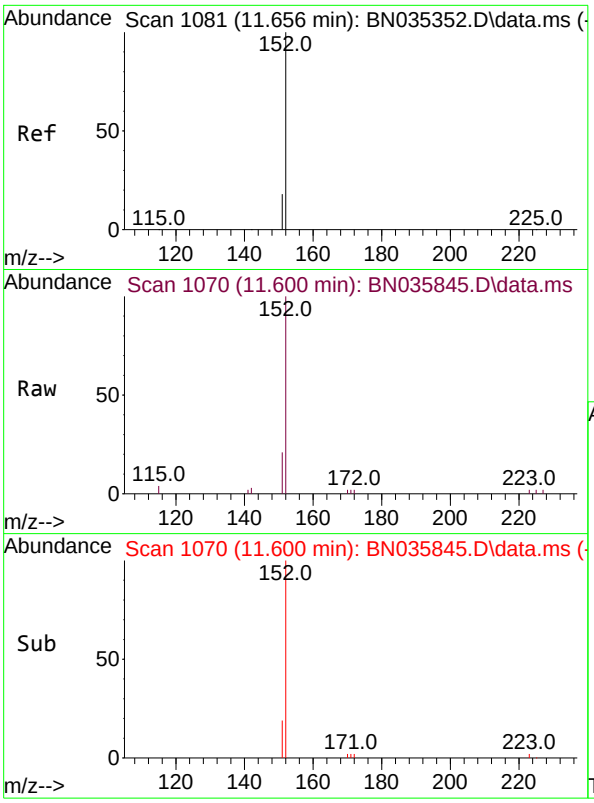


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9

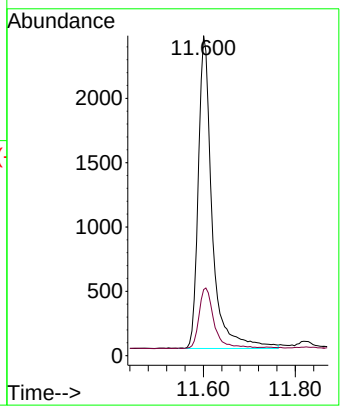




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 508

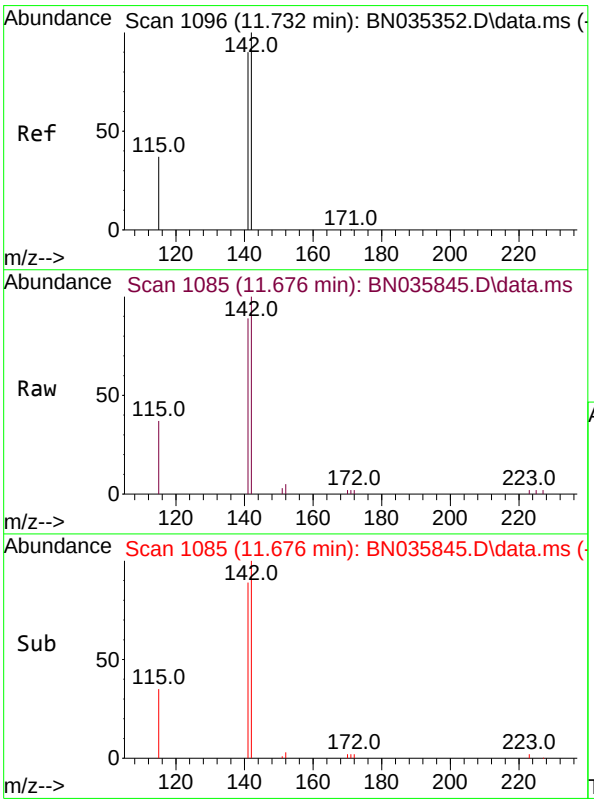
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

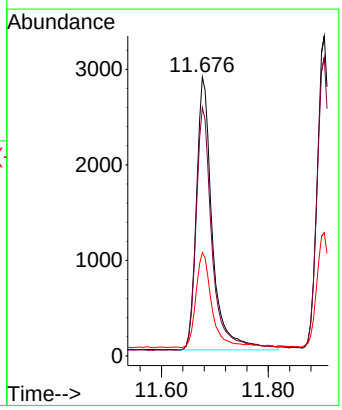
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

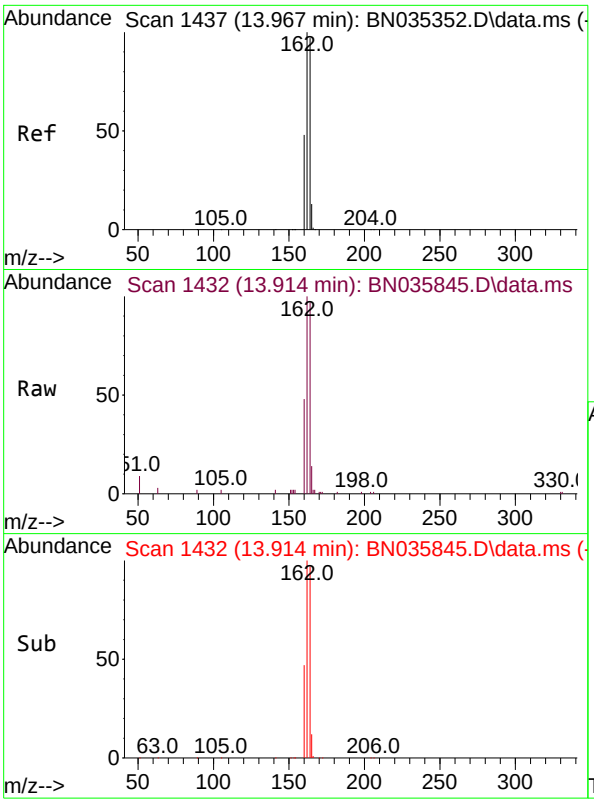


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

Ion	Ratio	Lower	Upper
142	100		
141	89.1	72.2	108.4
115	37.1	31.4	47.0

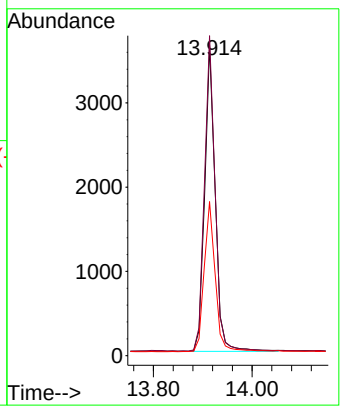




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:164 Resp: 538

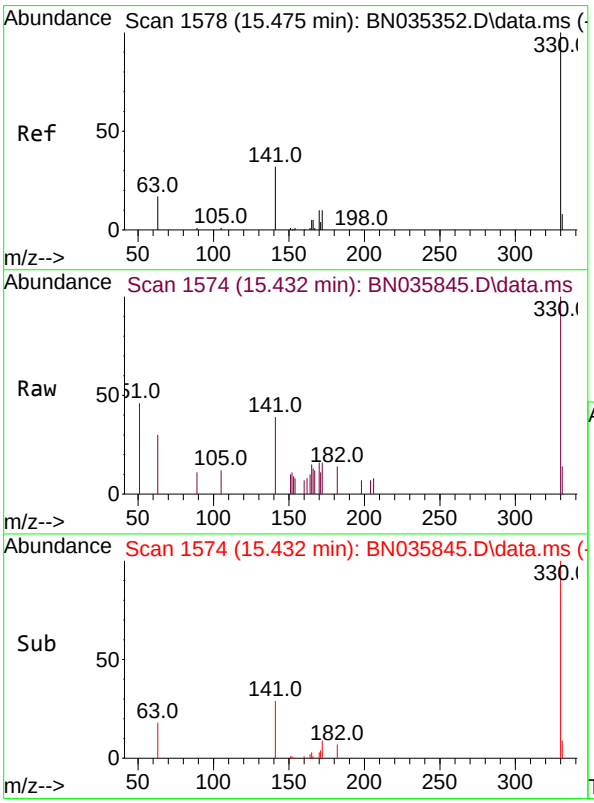
Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.7	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

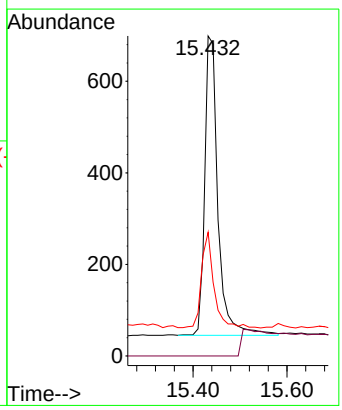
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

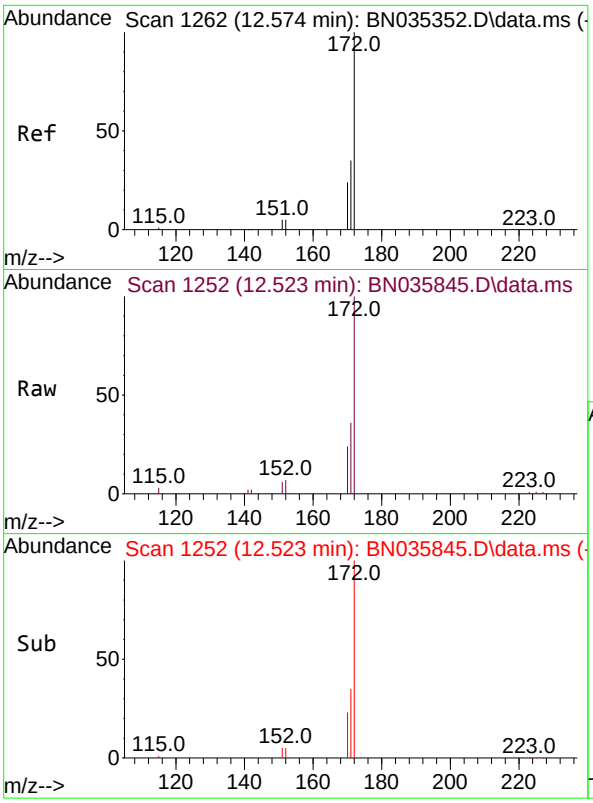


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0

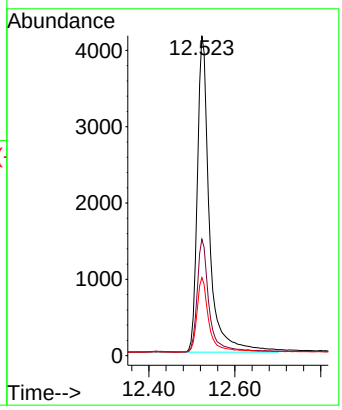




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:172 Resp: 810

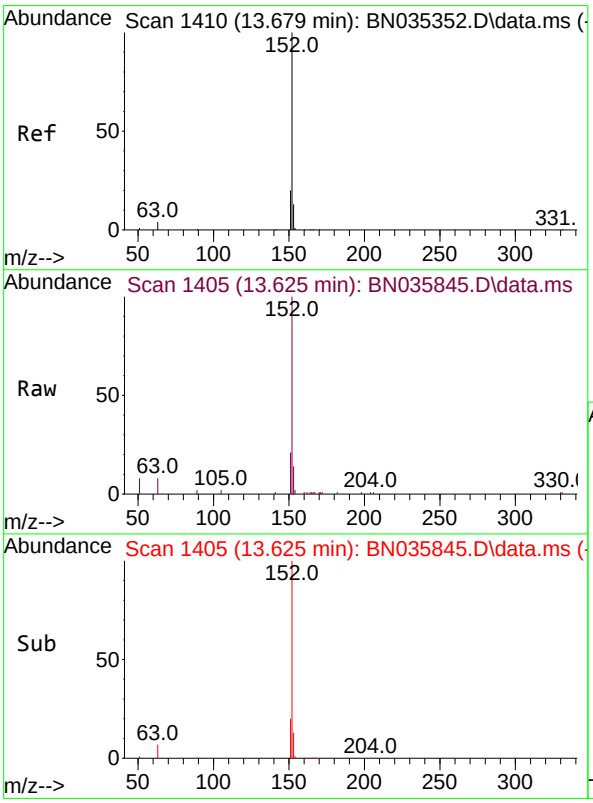
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

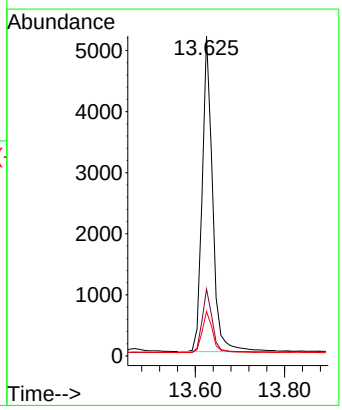
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

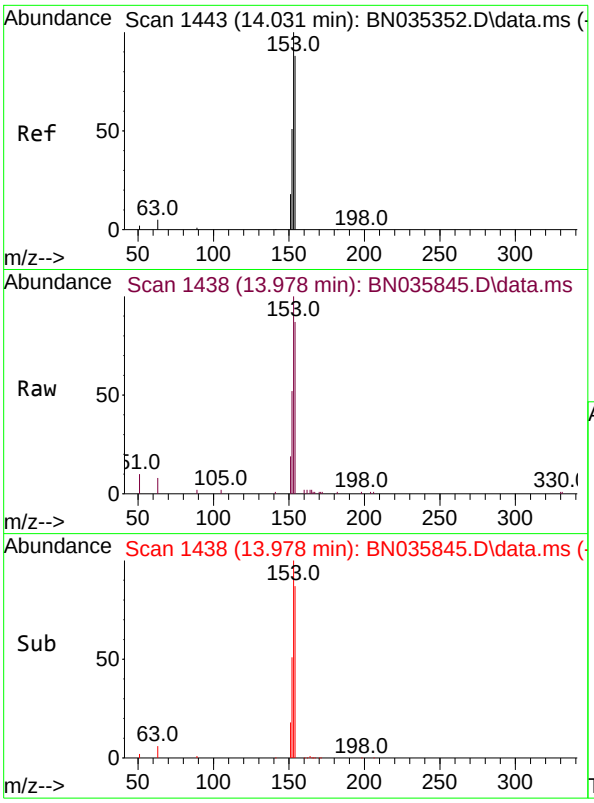


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6

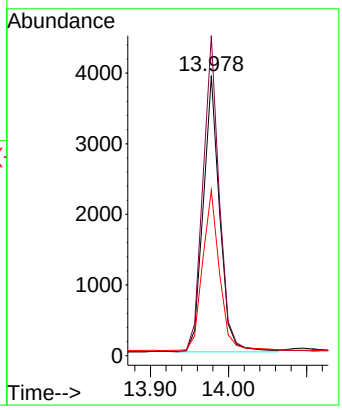




#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:154 Resp: 569

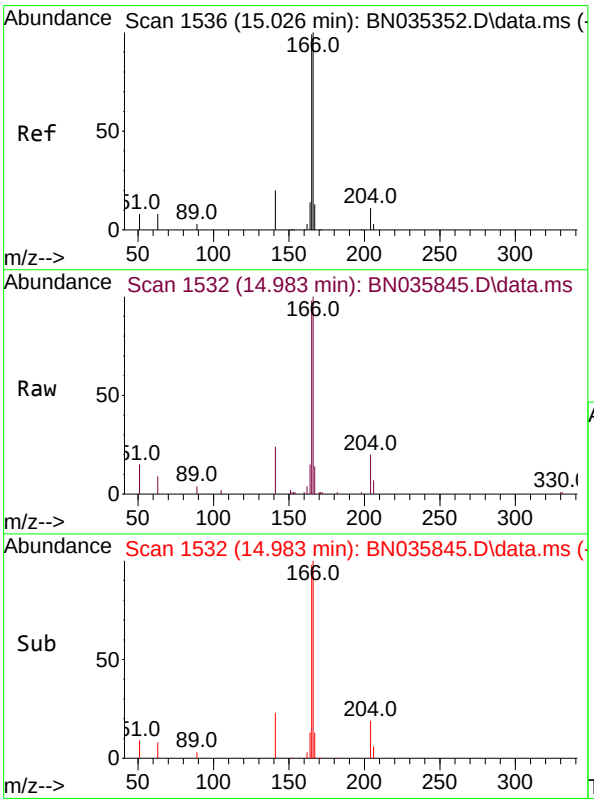
Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	60.4	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

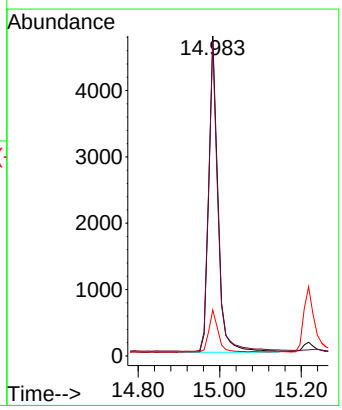
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

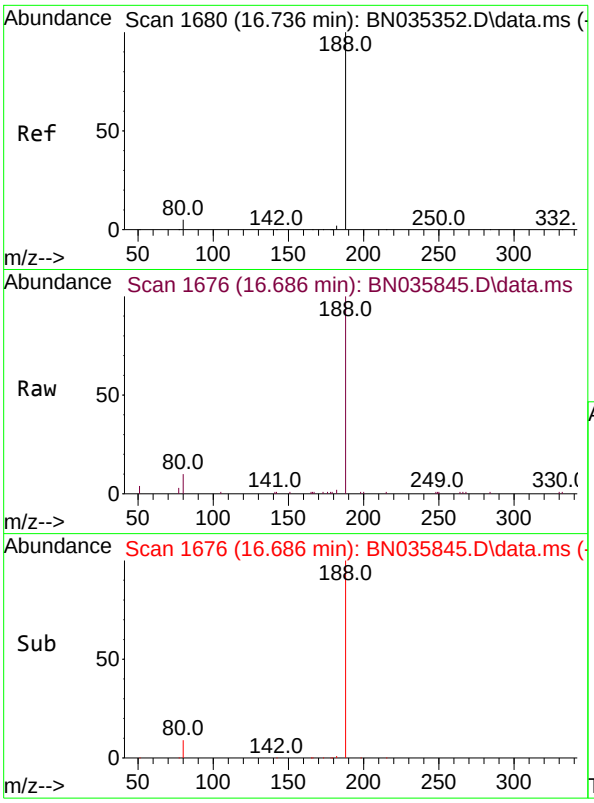


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2

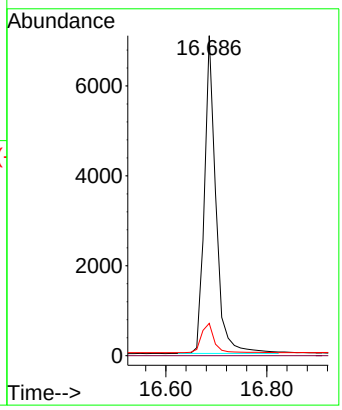




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:188 Resp: 1126

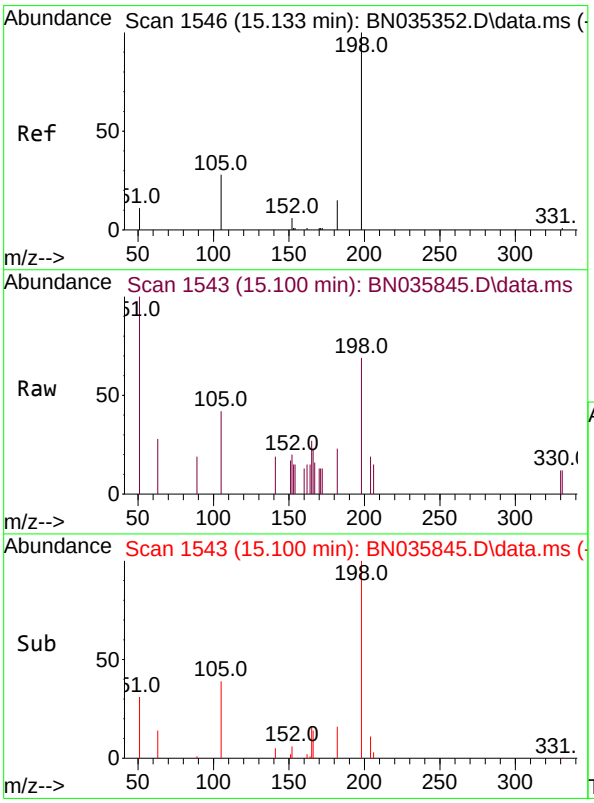
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

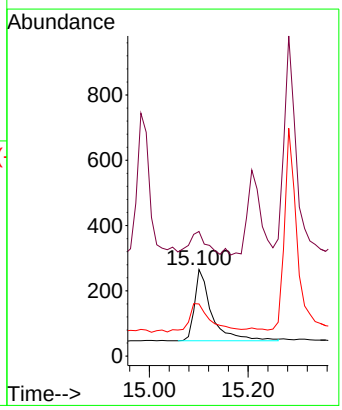
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

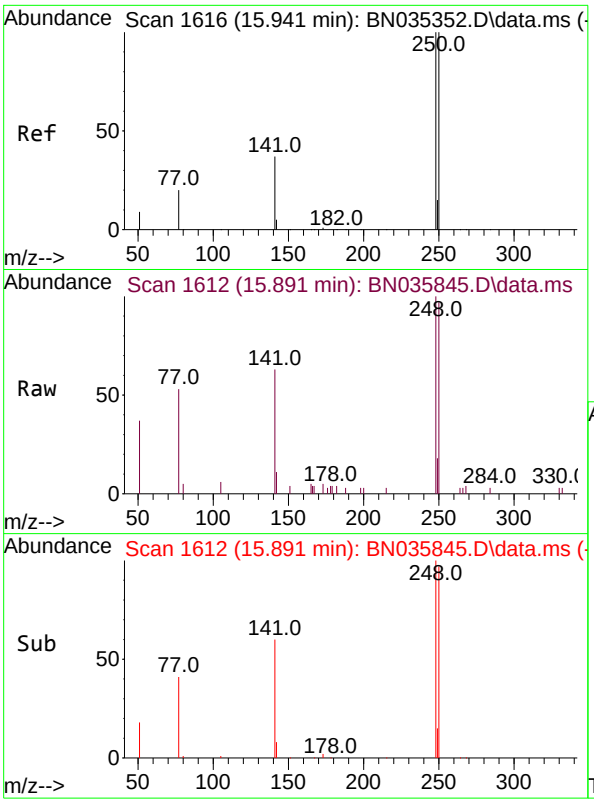


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

Ion	Ratio	Lower	Upper
198	100		
51	144.2	46.5	69.7#
105	60.4	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

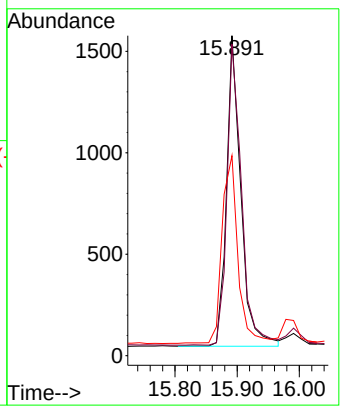
Tgt Ion:248 Resp: 244

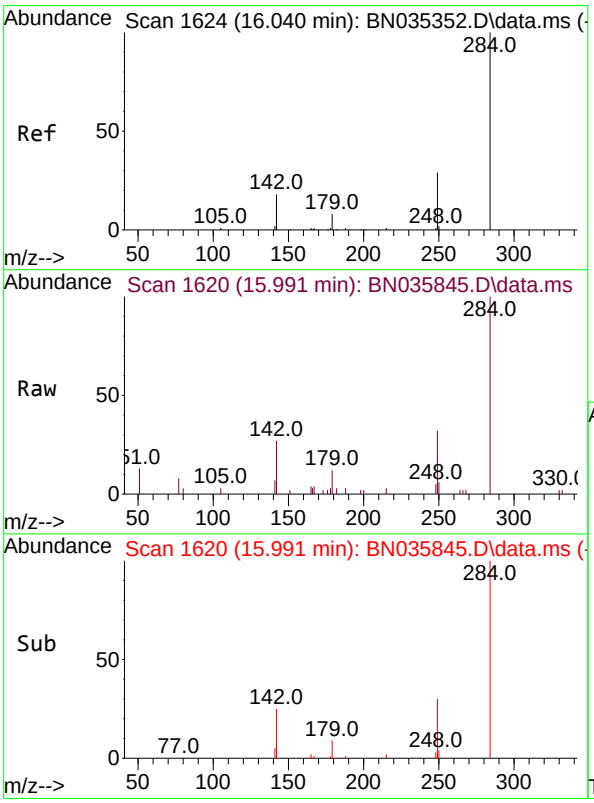
Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

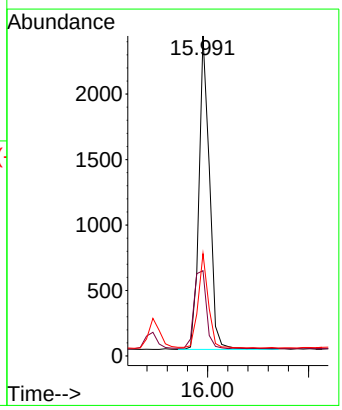


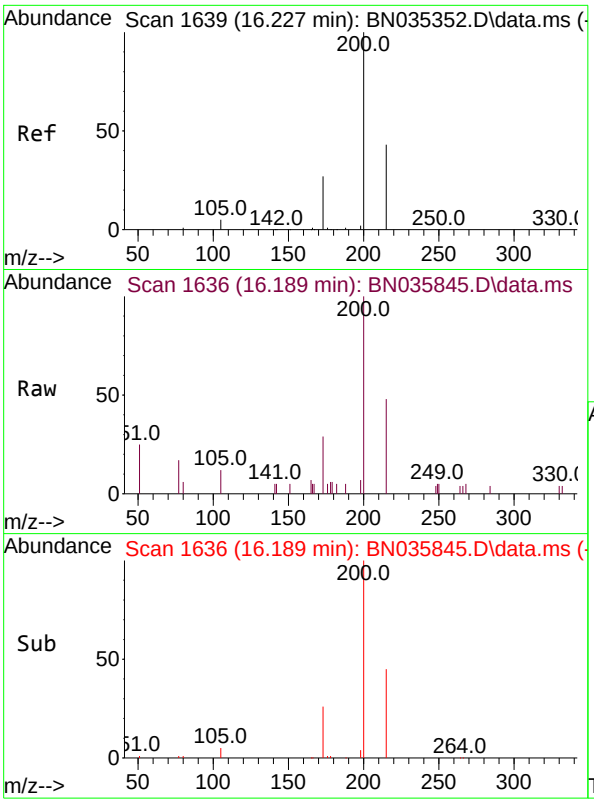


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8

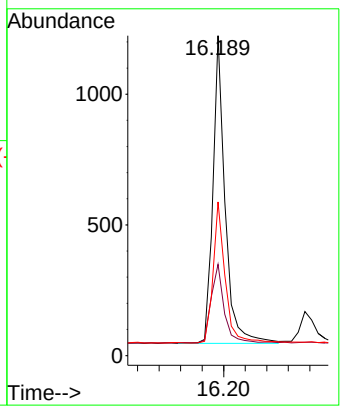




#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:200 Resp: 184

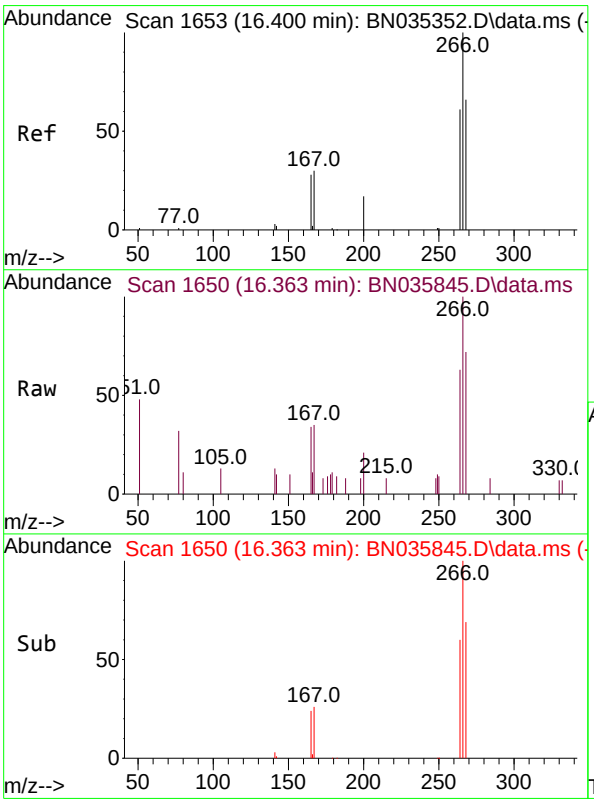
Ion	Ratio	Lower	Upper
200	100		
173	28.5	24.1	36.1
215	48.0	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

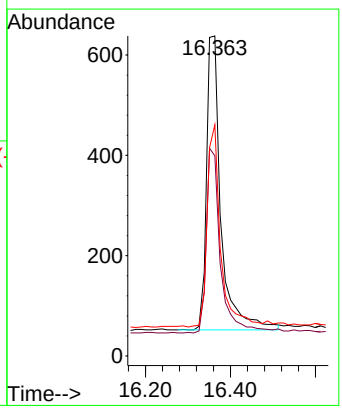
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

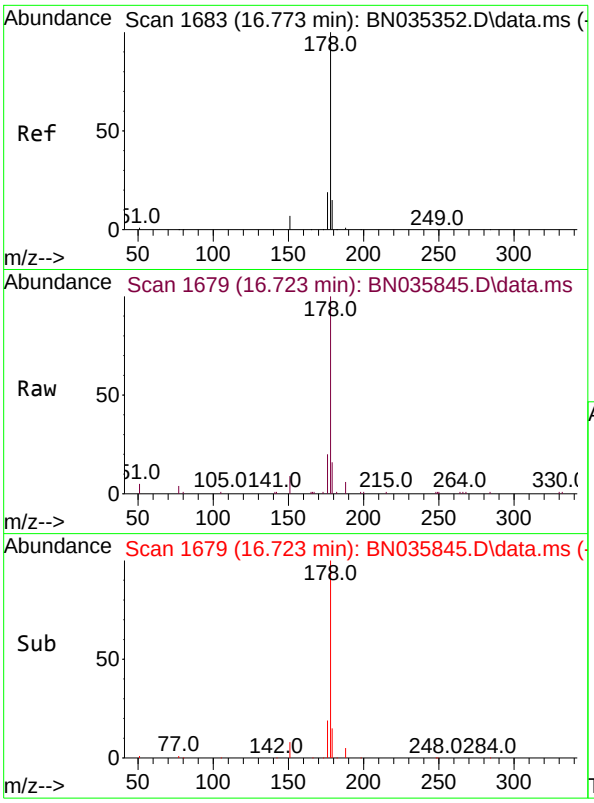


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	63.8	43.3	64.9

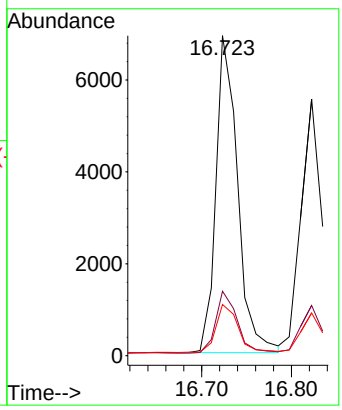




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 1160

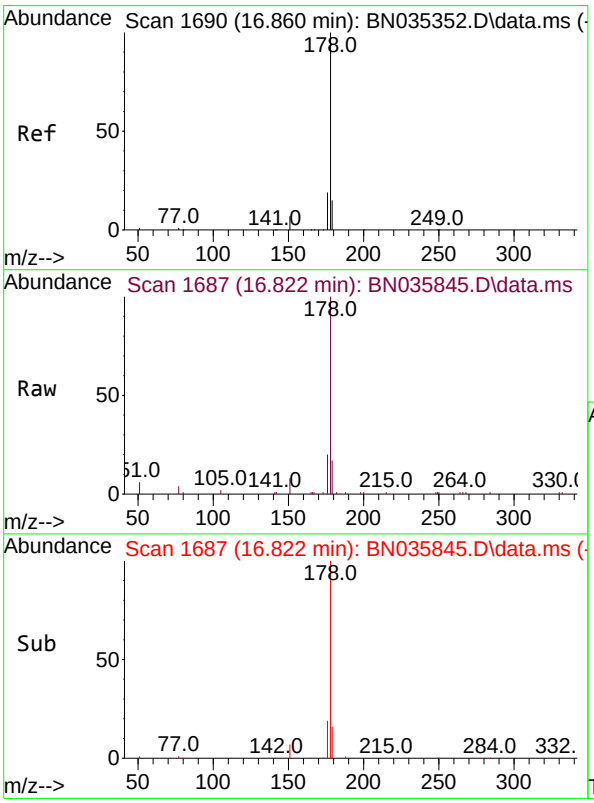
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

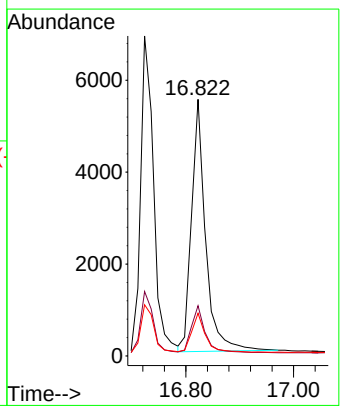
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

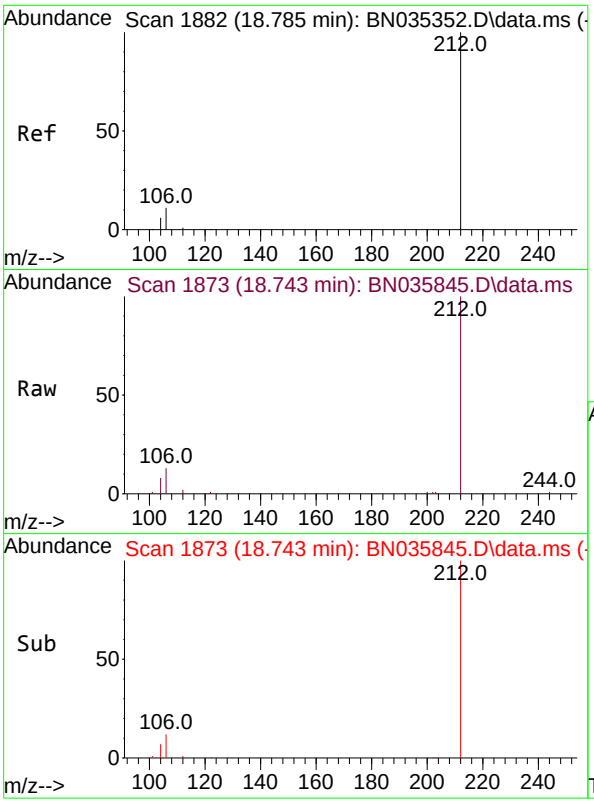


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

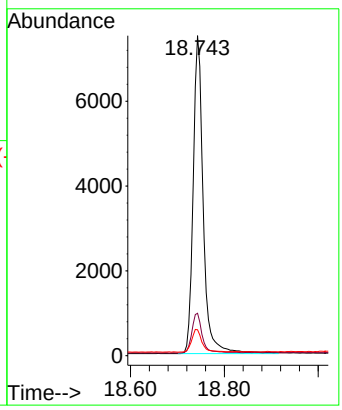




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:212 Resp: 1116

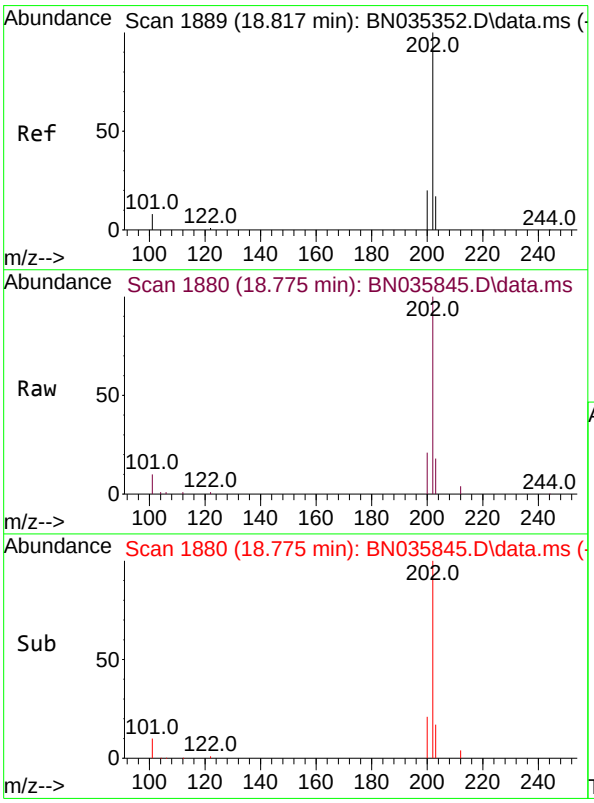
Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

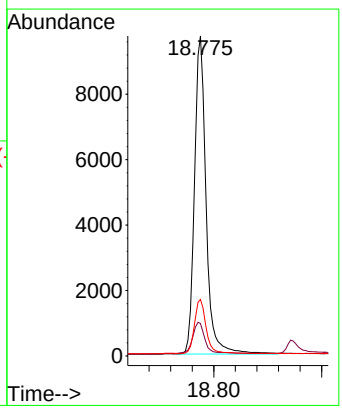
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

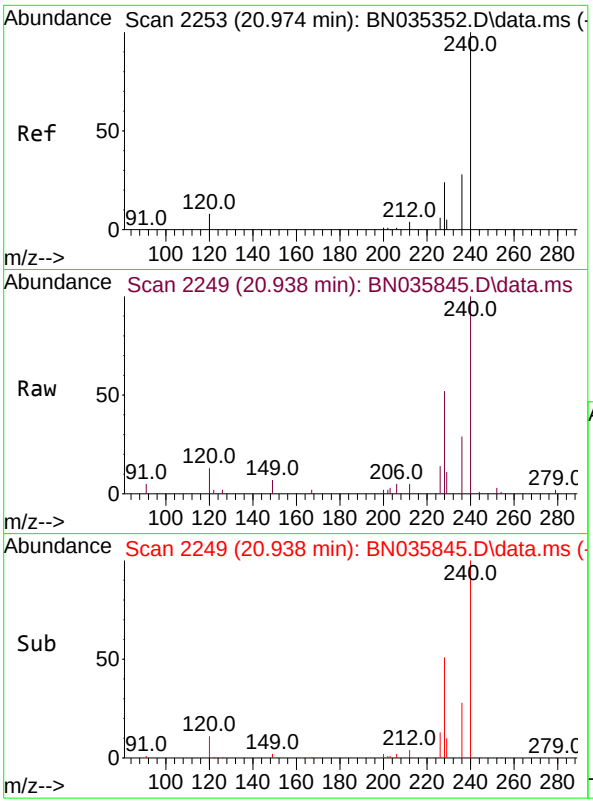


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.4	11.0
203	17.0	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

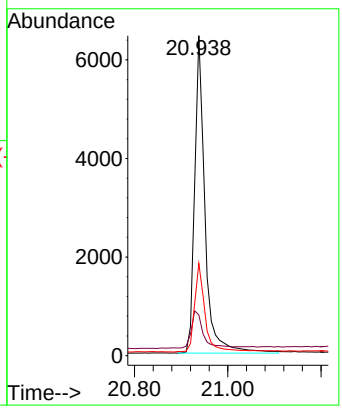
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

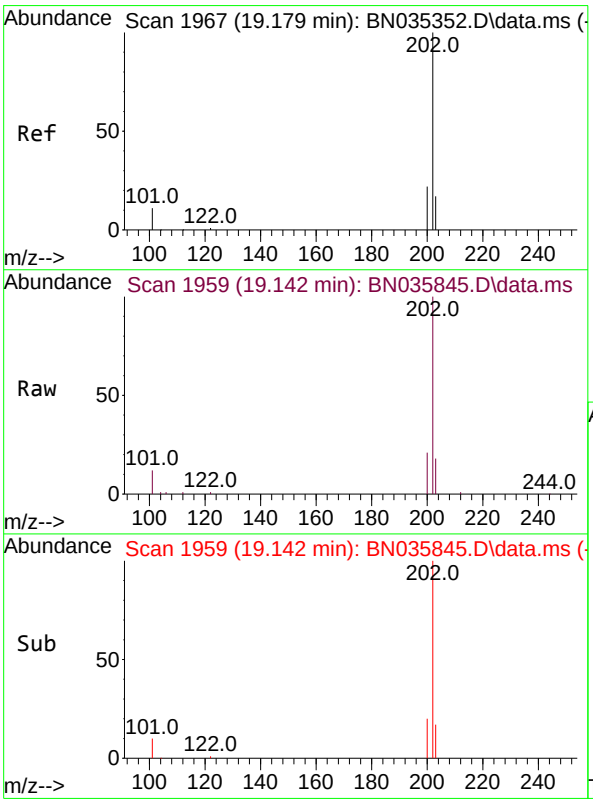
Tgt Ion:240 Resp: 993

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9
236	28.9	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

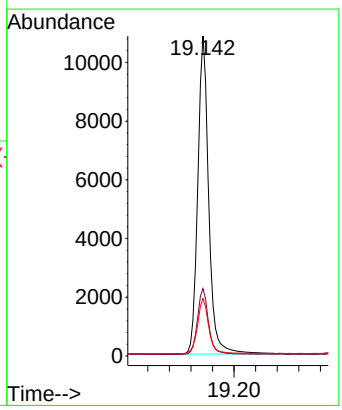


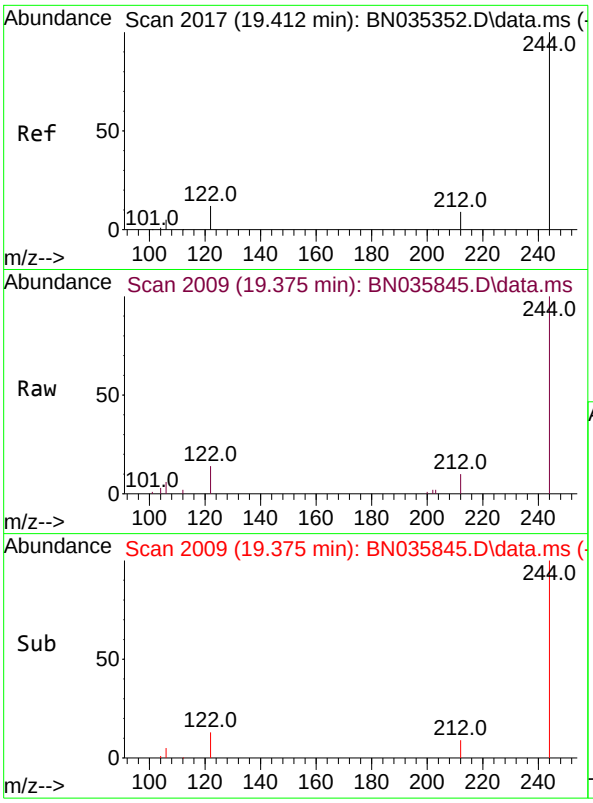


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5

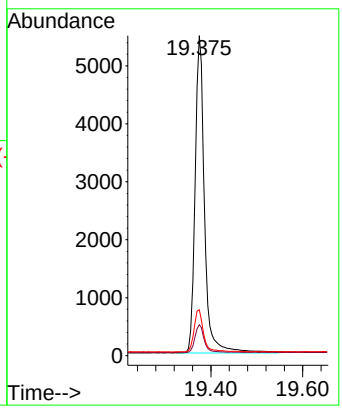




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:244 Resp: 778

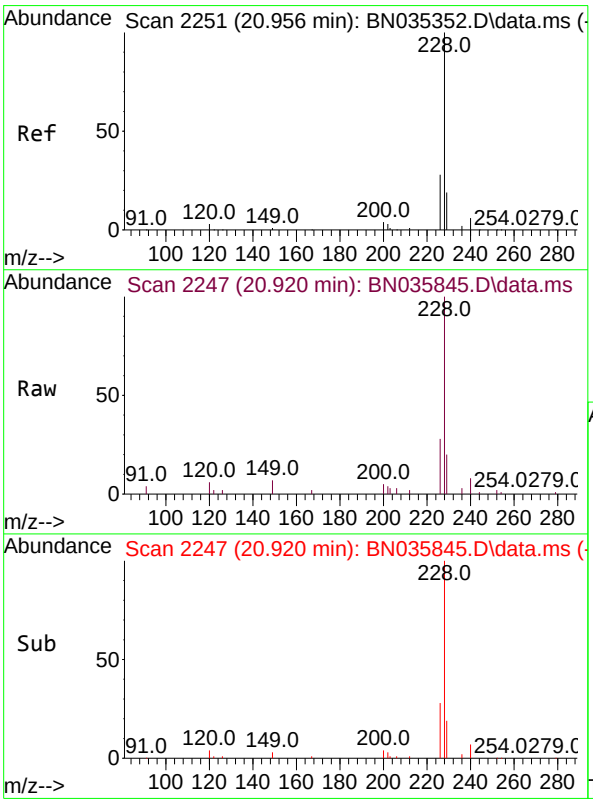
Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

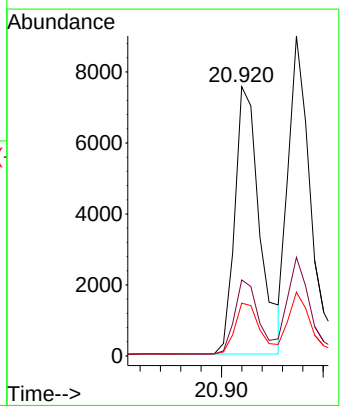
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

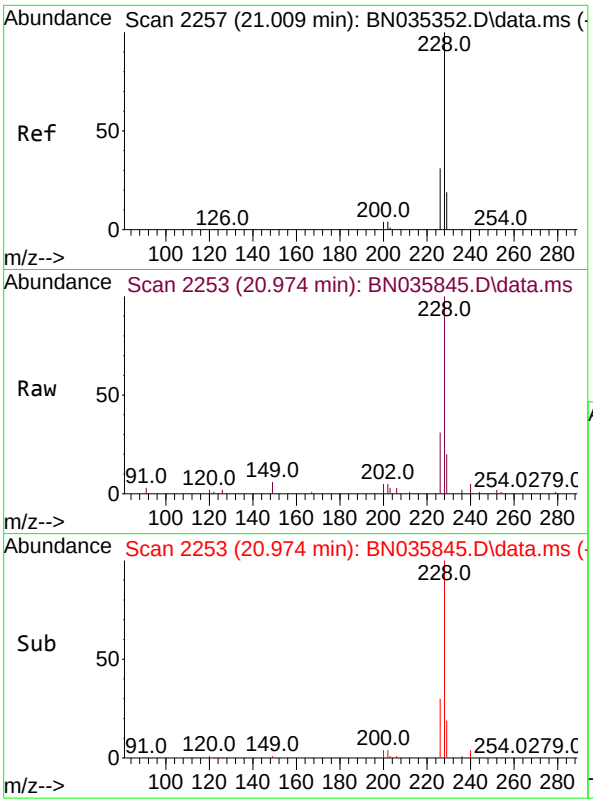


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8

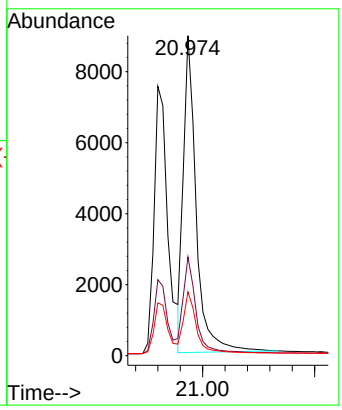




#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 1421

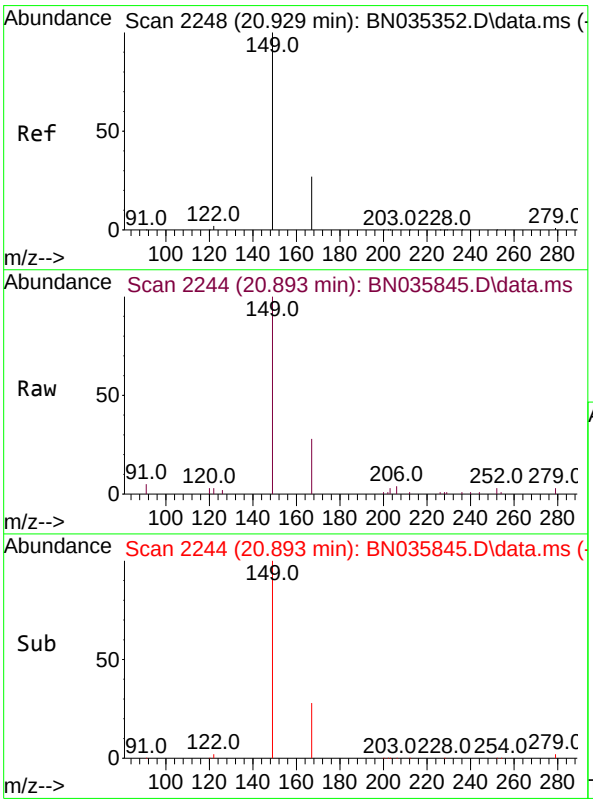
Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

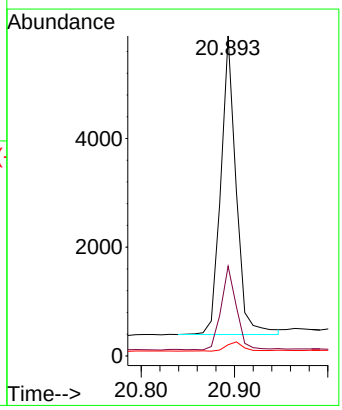
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

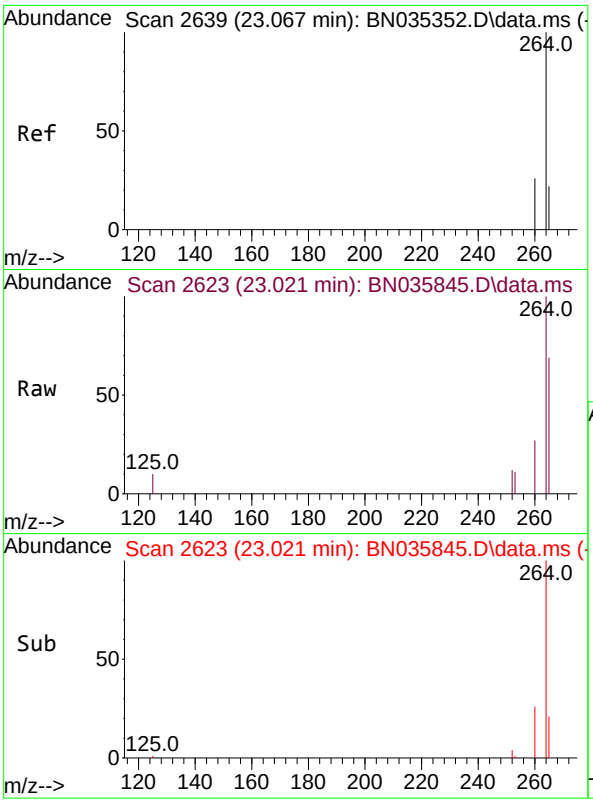


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1

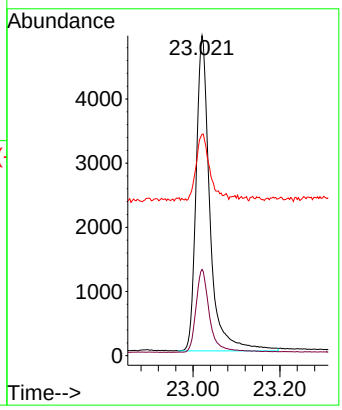




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:264 Resp: 1081

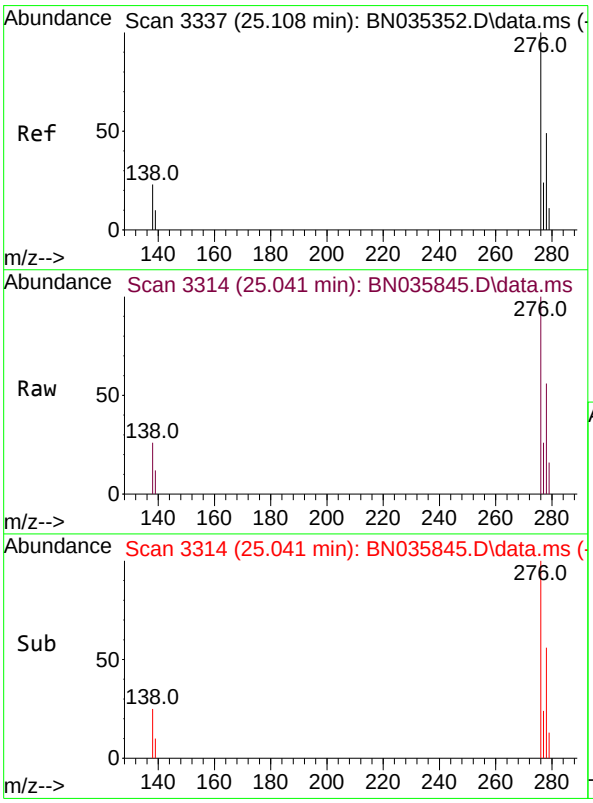
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	69.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

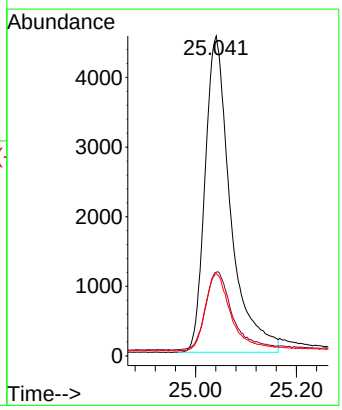
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

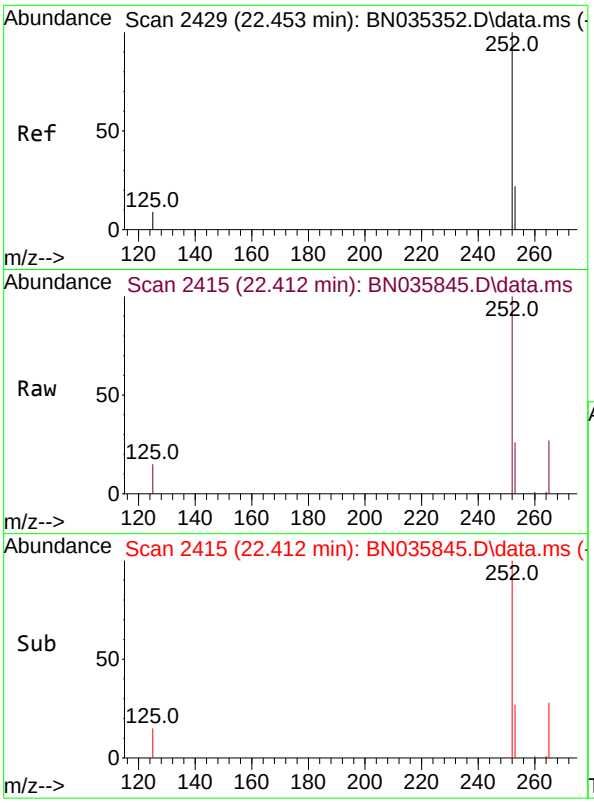


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

Ion	Ratio	Lower	Upper
276	100		
138	26.4	19.4	29.0
277	25.7	19.8	29.6

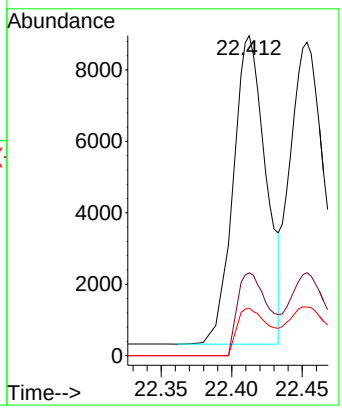




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1956

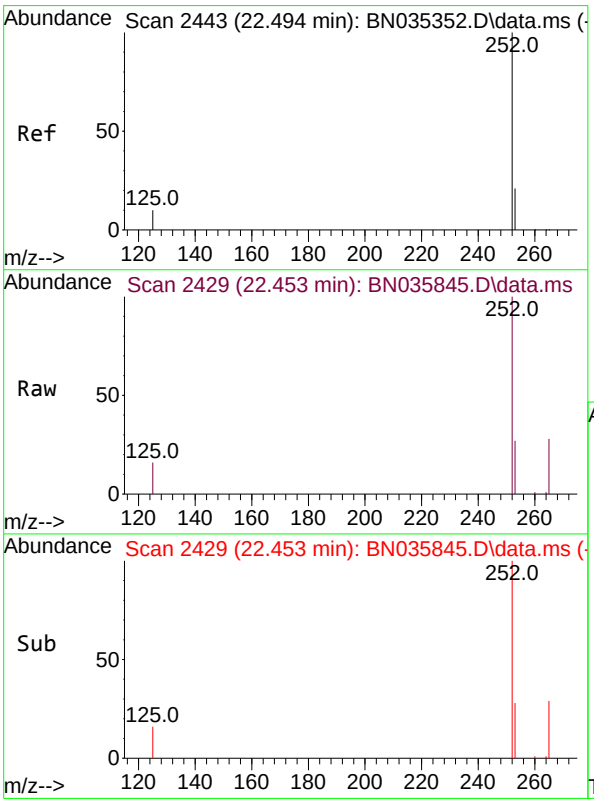
Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

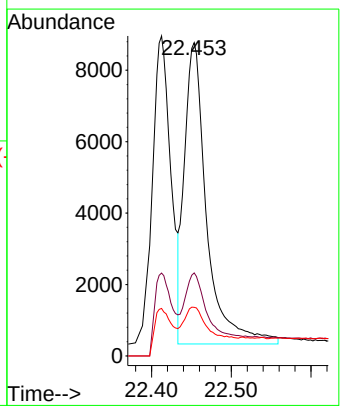
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

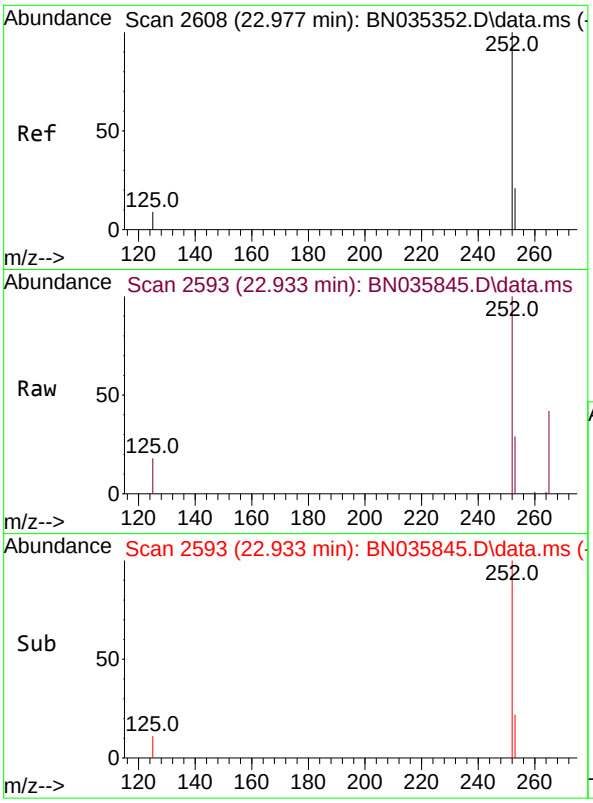


#38
Benzo(k)fluoranthene
Concen: 0.423 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 16469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.5	10.2	15.4#

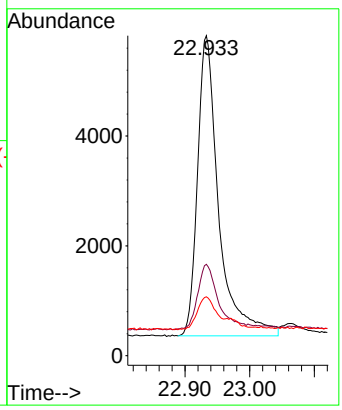




#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1245

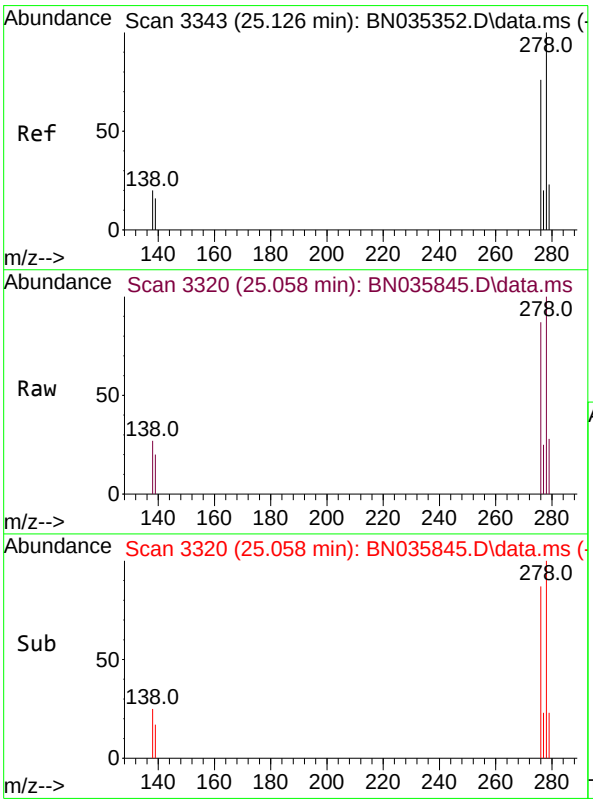
Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

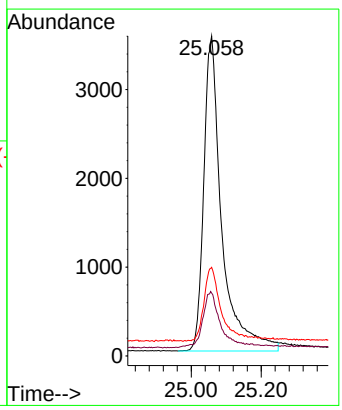
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

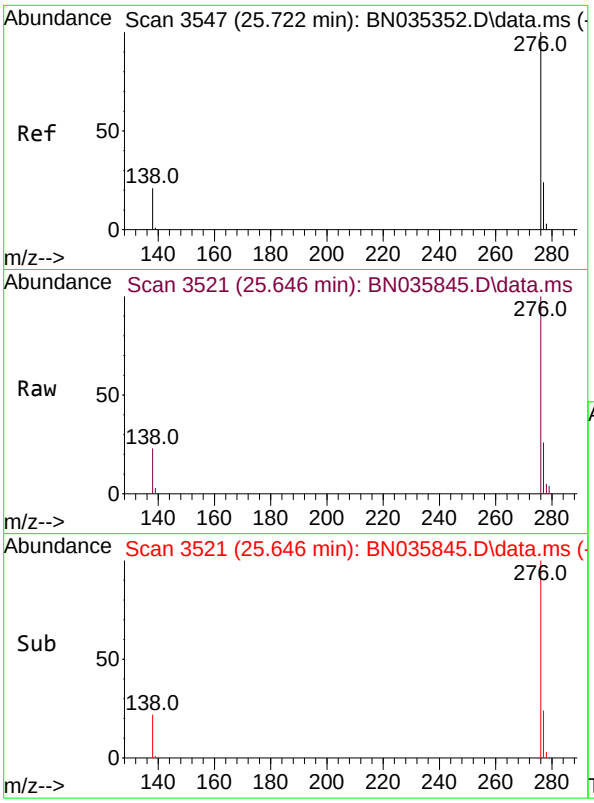


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7

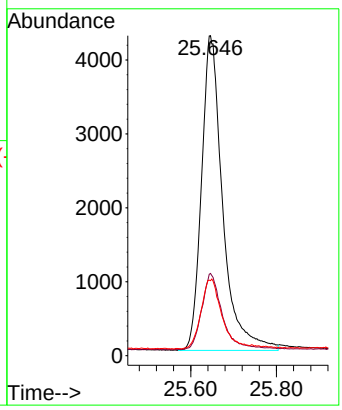




#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 1461

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	23.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Sample Results: **BN035845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	183#	-0.01
2		1,4-Dioxane	0.382	0.405	-6.0	197#	0.00
3		n-Nitrosodimethylamine	0.319	0.326	-2.2	183#	0.00
4	S	2-Fluorophenol	1.001	1.006	-0.5	181#	-0.01
5	S	Phenol-d6	1.204	1.112	7.6	171#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.958	5.3	177#	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	178#	-0.02
8	S	Nitrobenzene-d5	0.244	0.298	-22.1	226#	-0.01
9		Naphthalene	1.055	1.013	4.0	172#	-0.02
10		Hexachlorobutadiene	0.243	0.252	-3.7	182#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.545	12.9	157#	-0.02
12		2-Methylnaphthalene	0.755	0.637	15.6	154#	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.248	12.7	137	-0.02
15	S	2-Fluorobiphenyl	1.512	1.504	0.5	141	-0.02
16		Acenaphthylene	1.680	1.548	7.9	138	-0.02
17		Acenaphthene	1.115	1.057	5.2	138	-0.02
18		Fluorene	1.596	1.397	12.5	128	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.047	-20.5	156#	-0.02
21		4-Bromophenyl-phenylether	0.234	0.217	7.3	114	-0.02
22		Hexachlorobenzene	0.275	0.309	-12.4	134	-0.02
23		Atrazine	0.167	0.164	1.8	126	-0.01
24		Pentachlorophenol	0.120	0.123	-2.5	153#	-0.01
25		Phenanthrene	1.099	1.030	6.3	115	-0.02
26		Anthracene	0.994	0.888	10.7	112	-0.01
27	SURR	Fluoranthene-d10	1.134	0.991	12.6	109	-0.02
28		Fluoranthene	1.481	1.287	13.1	108	-0.01
29	I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30		Pyrene	1.477	1.538	-4.1	109	-0.02
31	S	Terphenyl-d14	0.789	0.784	0.6	103	-0.01
32		Benzo(a)anthracene	1.399	1.289	7.9	99	-0.02
33		Chrysene	1.443	1.431	0.8	104	-0.02
34		Bis(2-ethylhexyl)phthalate	0.553	0.633	-14.5	128	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	100	-0.02
36		Indeno(1,2,3-cd)pyrene	1.564	1.474	5.8	96	-0.03
37		Benzo(b)fluoranthene	1.463	1.809	-23.7	137	-0.02
38		Benzo(k)fluoranthene	1.440	1.523	-5.8	108	-0.02
39	C	Benzo(a)pyrene	1.205	1.152	4.4	100	-0.02
40		Dibenzo(a,h)anthracene	1.234	1.172	5.0	98	-0.02
41		Benzo(g,h,i)perylene	1.289	1.351	-4.8	108	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	183	-0.01
2		1,4-Dioxane	0.400	0.423	-5.7	197	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	183	0.00
4	S	2-Fluorophenol	0.400	0.402	-0.5	181	-0.01
5	S	Phenol-d6	0.400	0.369	7.8	171	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.379	5.3	177	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	178	-0.02
8	S	Nitrobenzene-d5	0.400	0.488	-22.0	226	-0.01
9		Naphthalene	0.400	0.384	4.0	172	-0.02
10		Hexachlorobutadiene	0.400	0.415	-3.7	182	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.348	13.0	157	-0.02
12		2-Methylnaphthalene	0.400	0.337	15.8	154	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.350	12.5	137	-0.02
15	S	2-Fluorobiphenyl	0.400	0.398	0.5	141	-0.02
16		Acenaphthylene	0.400	0.369	7.8	138	-0.02
17		Acenaphthene	0.400	0.379	5.3	138	-0.02
18		Fluorene	0.400	0.350	12.5	128	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	119	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.475	-18.7	156	-0.02
21		4-Bromophenyl-phenylether	0.400	0.371	7.3	114	-0.02
22		Hexachlorobenzene	0.400	0.450	-12.5	134	-0.02
23		Atrazine	0.400	0.393	1.8	126	-0.01
24		Pentachlorophenol	0.400	0.411	-2.7	153	-0.01
25		Phenanthrene	0.400	0.375	6.3	115	-0.02
26		Anthracene	0.400	0.358	10.5	112	-0.01
27	SURR	Fluoranthene-d10	0.400	0.350	12.5	109	-0.02
28		Fluoranthene	0.400	0.347	13.3	108	-0.01
29	I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30		Pyrene	0.400	0.417	-4.2	109	-0.02
31	S	Terphenyl-d14	0.400	0.397	0.8	103	-0.01
32		Benzo(a)anthracene	0.400	0.368	8.0	99	-0.02
33		Chrysene	0.400	0.397	0.8	104	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.458	-14.5	128	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	100	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	96	-0.03
37		Benzo(b)fluoranthene	0.400	0.494	-23.5	137	-0.02
38		Benzo(k)fluoranthene	0.400	0.423	-5.7	108	-0.02
39	C	Benzo(a)pyrene	0.400	0.382	4.5	100	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.380	5.0	98	-0.02
41		Benzo(g,h,i)perylene	0.400	0.419	-4.7	108	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BN035861.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	50.0
Fluoranthene-d10	1.134	0.922		-18.7	50.0
2-Fluorophenol	1.001	0.931		-7.0	50.0
Phenol-d6	1.204	1.022		-15.1	50.0
Nitrobenzene-d5	0.244	0.306		25.4	50.0
2-Fluorobiphenyl	1.512	1.480		-2.1	50.0
2,4,6-Tribromophenol	0.284	0.225		-20.8	50.0
Terphenyl-d14	0.789	0.898		13.8	50.0
1,4-Dioxane	0.382	0.394		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng		#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng		# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	2874	0.372	ng		-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2215m	0.501	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng		-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng		-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng		96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	#	90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng		98
9) Naphthalene	10.052	128	7516	0.394	ng		100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	#	99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng		99
16) Acenaphthylene	13.625	152	6923	0.369	ng		100
17) Acenaphthene	13.978	154	4776	0.383	ng		99
18) Fluorene	14.983	166	6478	0.363	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	#	67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	#	96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng		98
23) Atrazine	16.202	200	1507	0.386	ng		94
24) Pentachlorophenol	16.363	266	846	0.302	ng	#	84
25) Phenanthrene	16.736	178	9697	0.377	ng		100
26) Anthracene	16.822	178	8100	0.348	ng		99
28) Fluoranthene	18.780	202	11145	0.321	ng		99
30) Pyrene	19.147	202	11492	0.517	ng		99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng		99
33) Chrysene	20.983	228	9578	0.441	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng		99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng		98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	#	92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	#	90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	#	82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	#	91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng		95

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

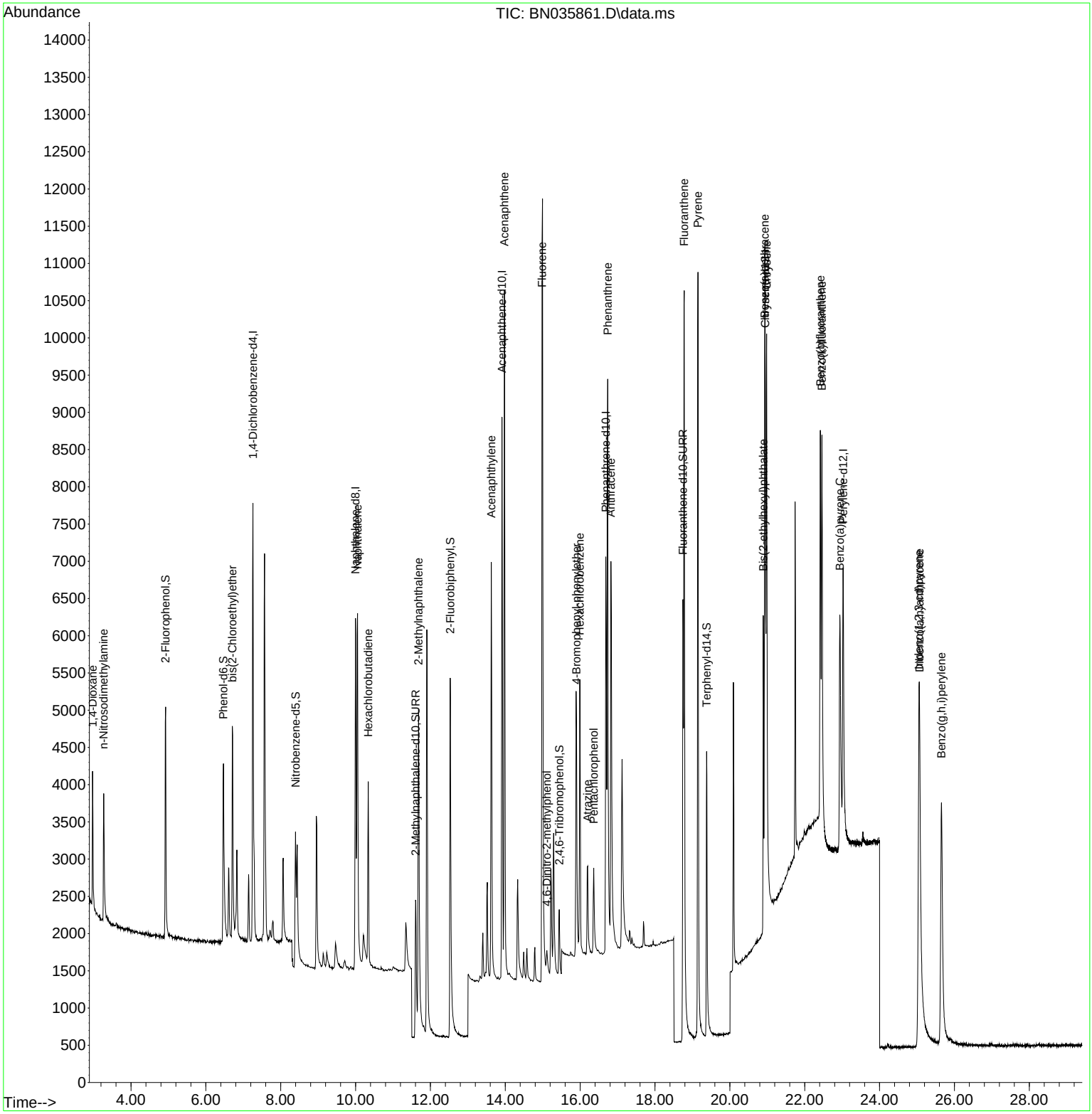
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

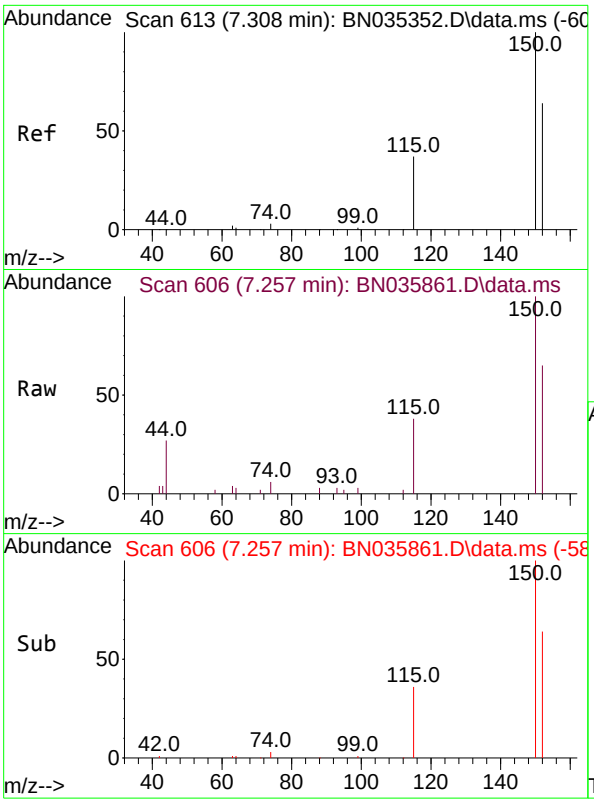
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

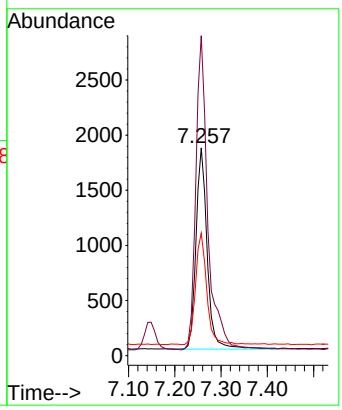




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 308

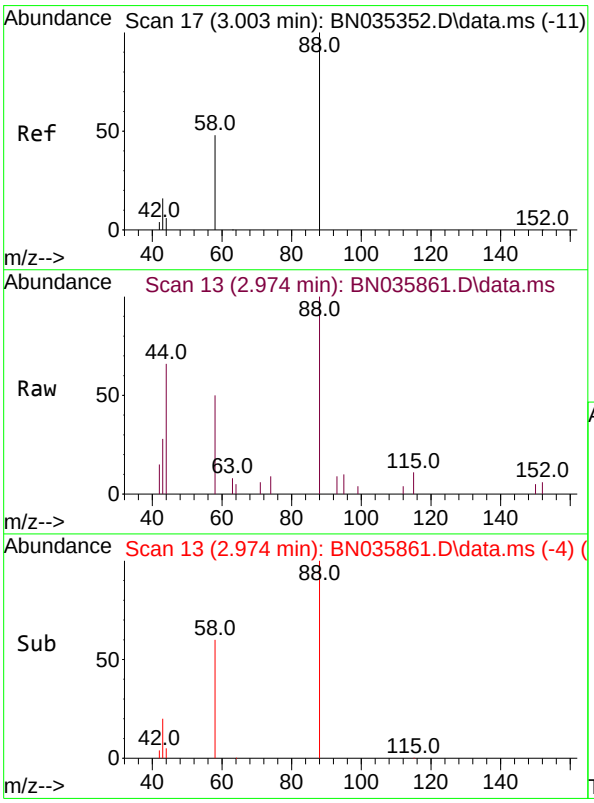
Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

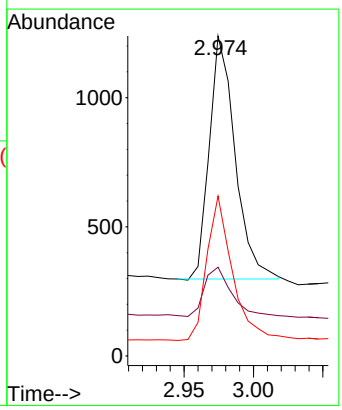
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

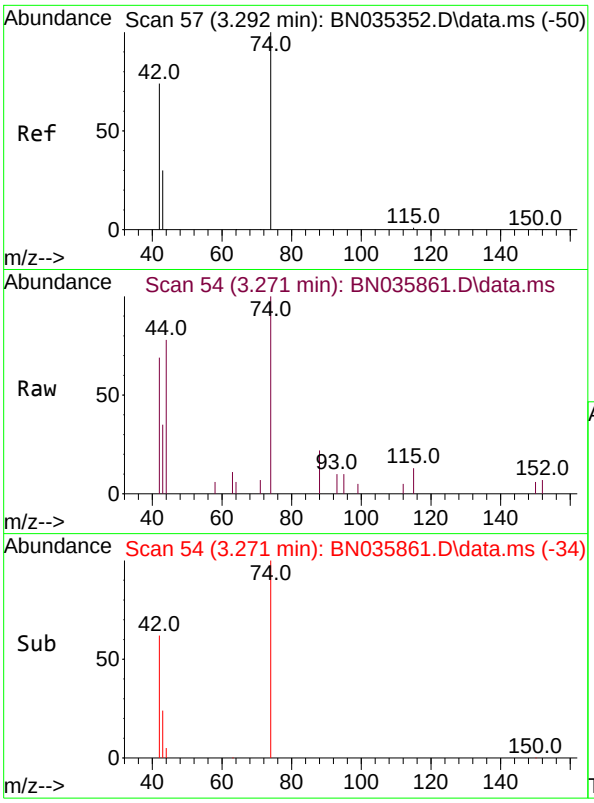


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215

Ion	Ratio	Lower	Upper
88	100		
43	20.1	17.2	25.8
58	59.1	44.5	66.7

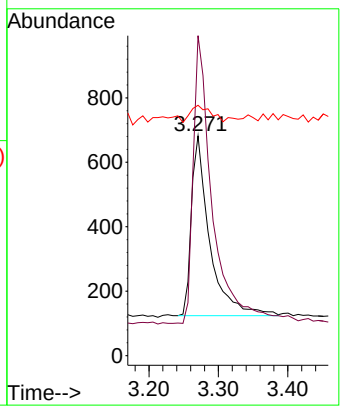




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 42 Resp: 102

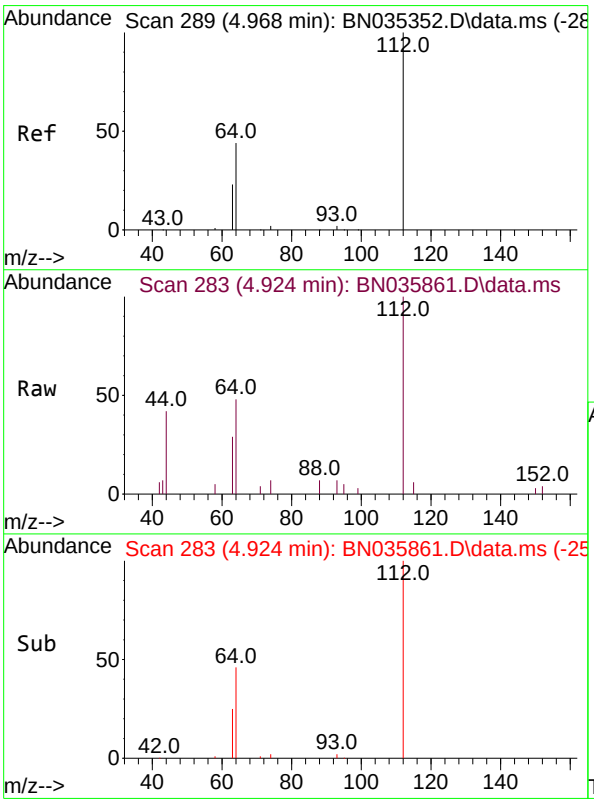
Ion	Ratio	Lower	Upper
42	100		
74	169.1	124.9	187.3
44	10.6	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

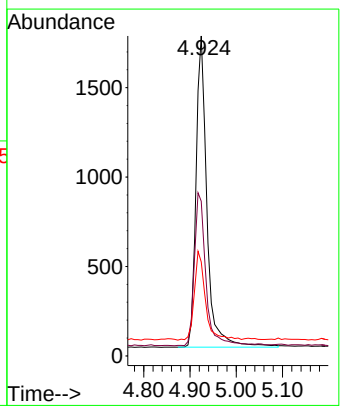
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

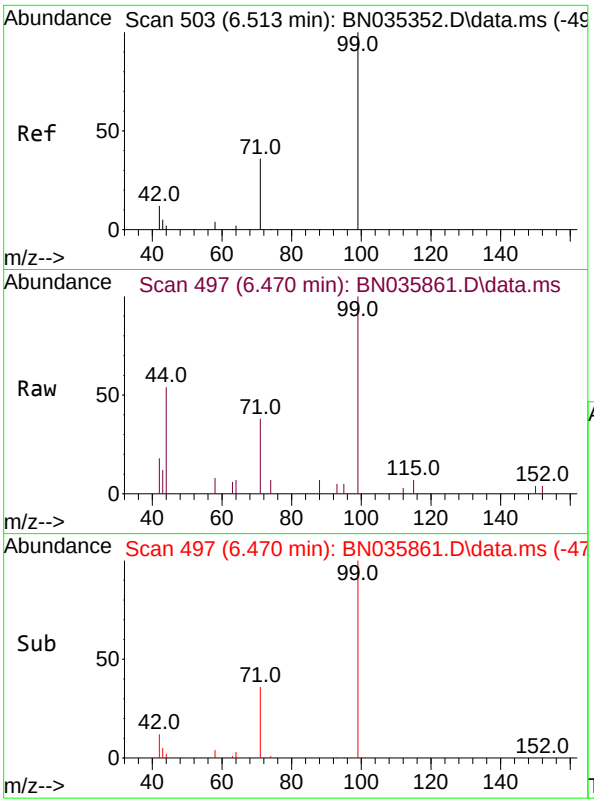


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.9	21.0	31.6

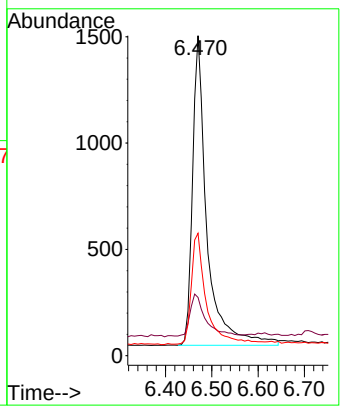




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 99 Resp: 315

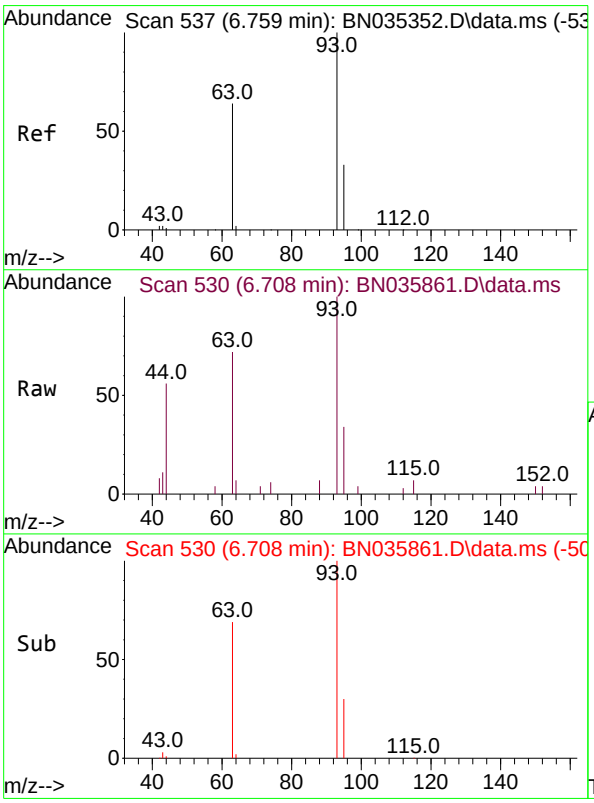
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

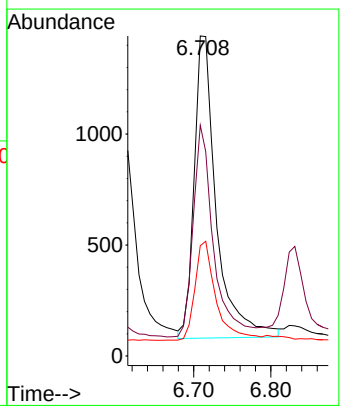
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

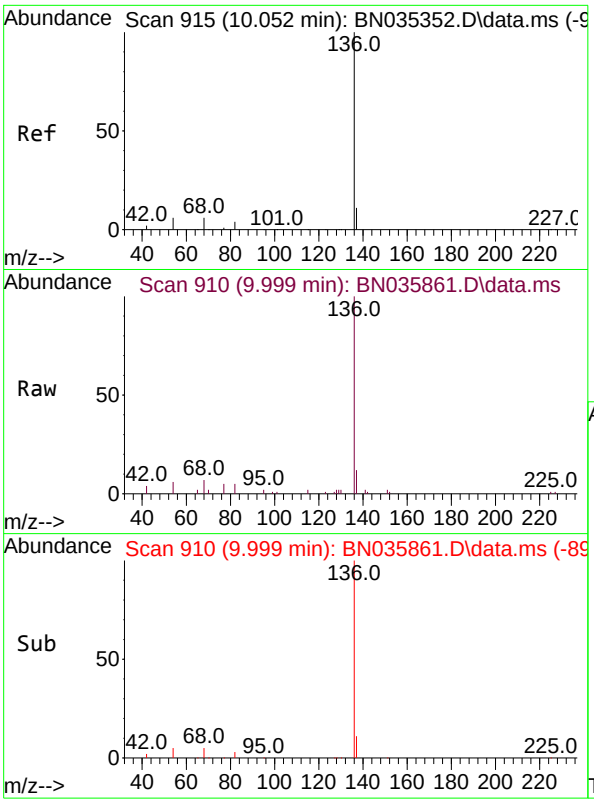


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

Ion	Ratio	Lower	Upper
93	100		
63	64.1	50.4	75.6
95	31.0	25.7	38.5

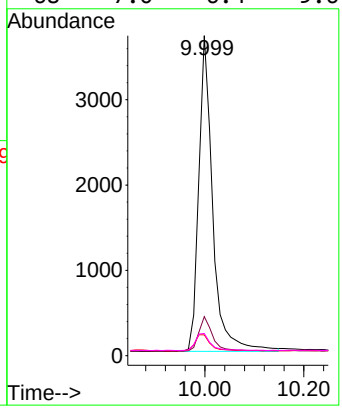




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:136 Resp: 723

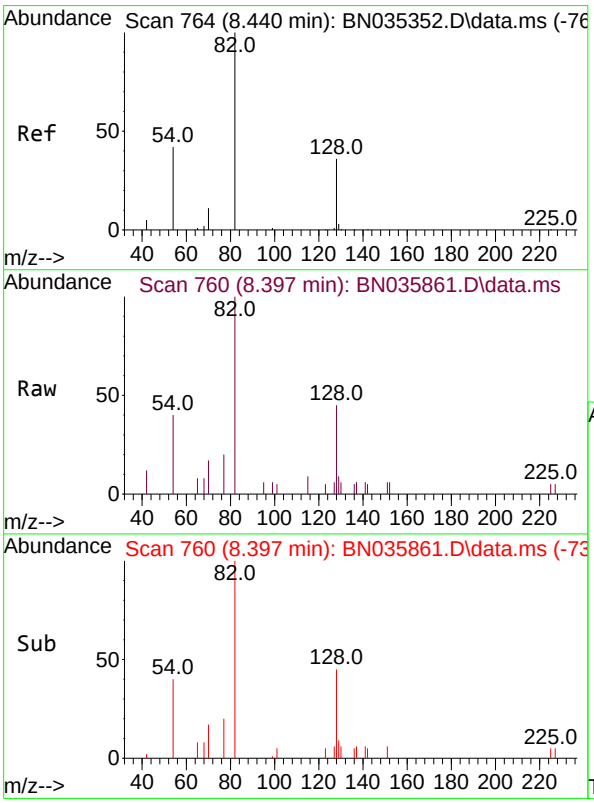
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

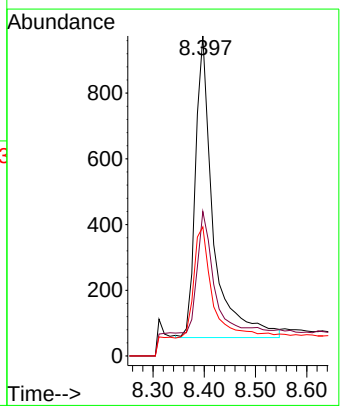
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

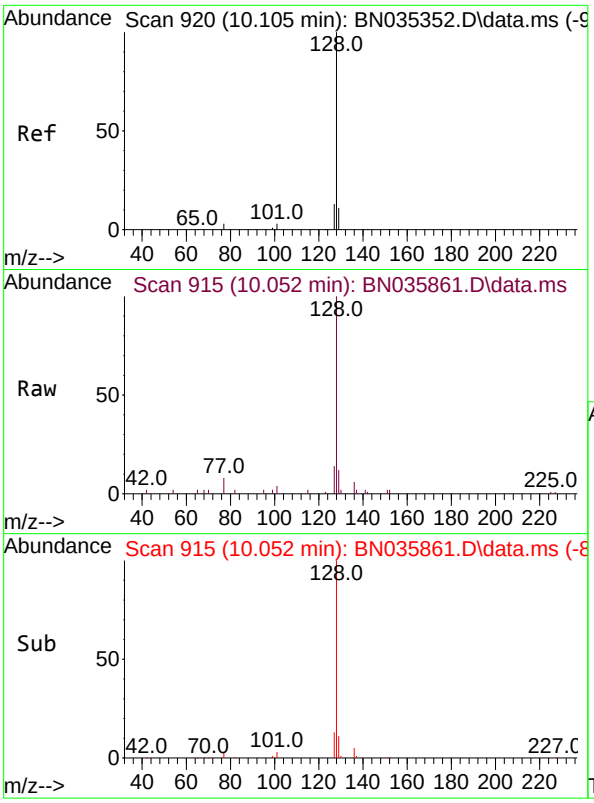


#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2215

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1

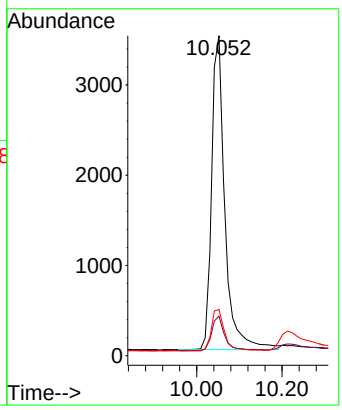




#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:128 Resp: 751

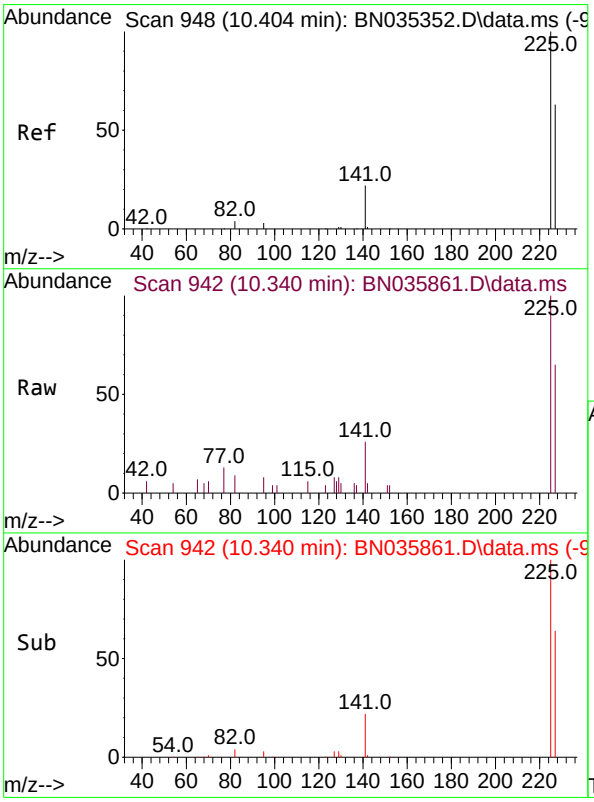
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.5	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

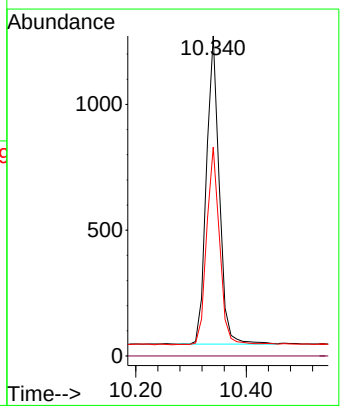
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

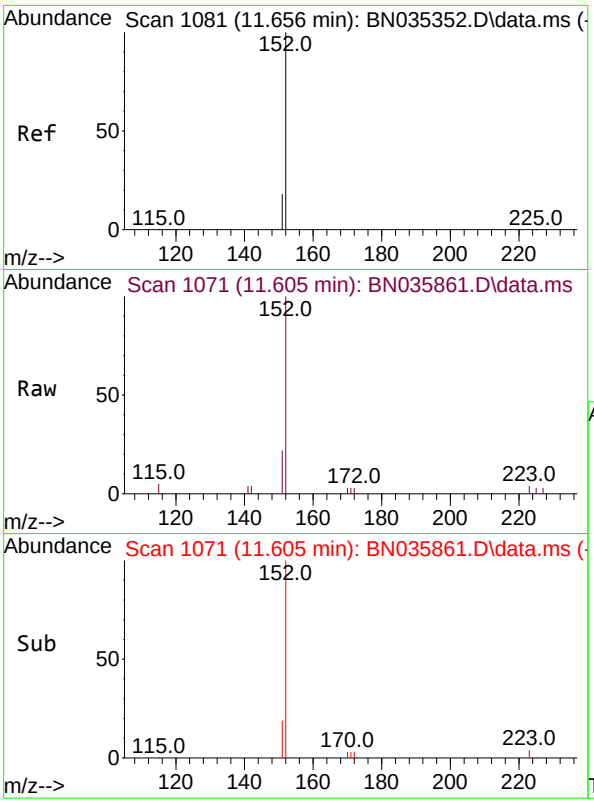


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

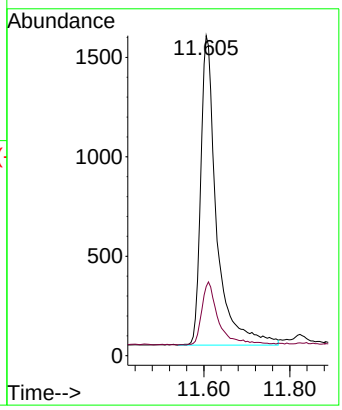




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 398

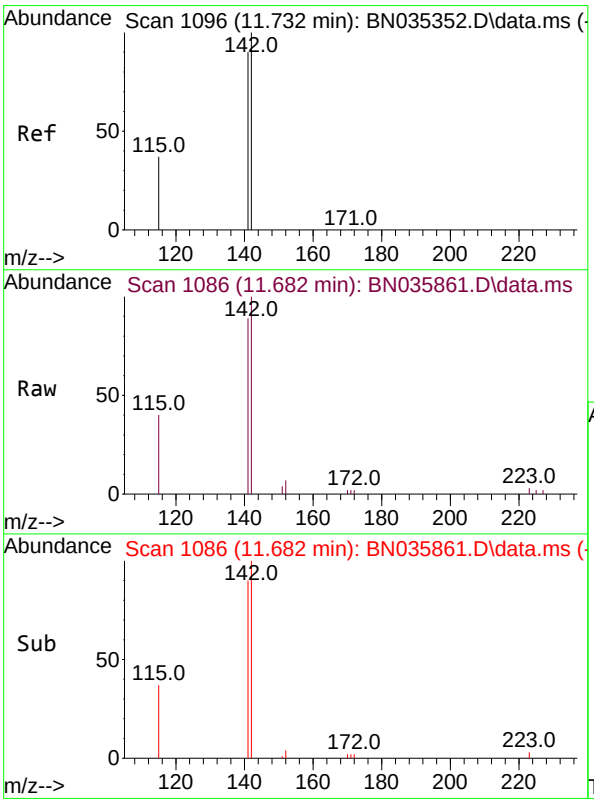
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

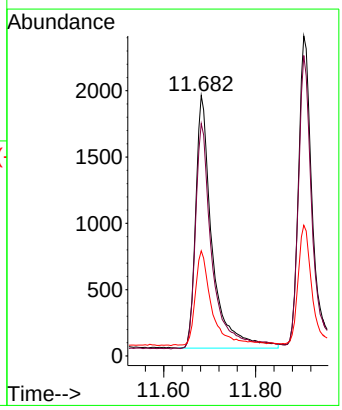
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

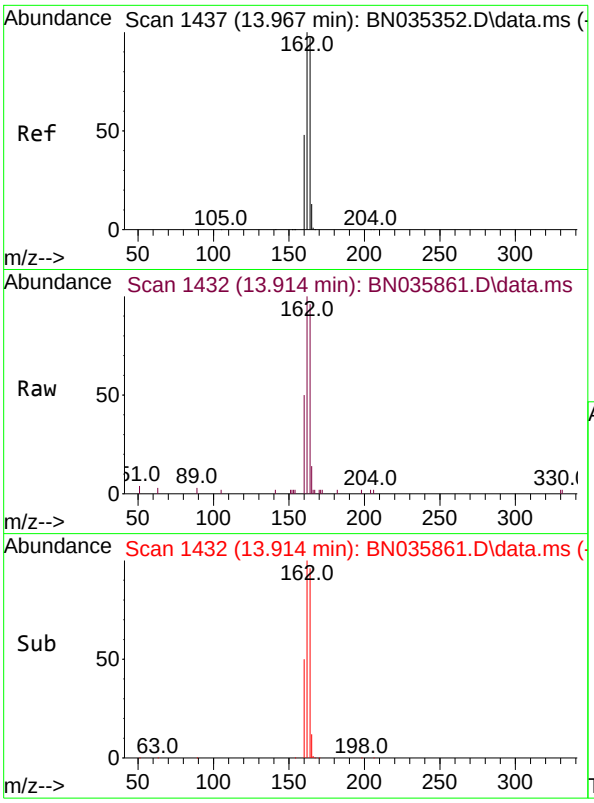


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.4	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

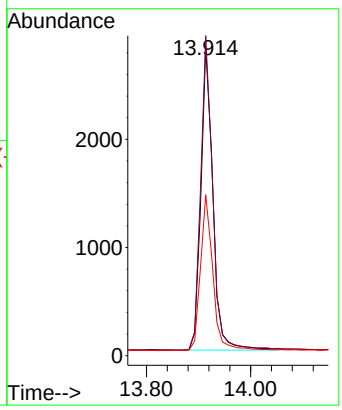
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

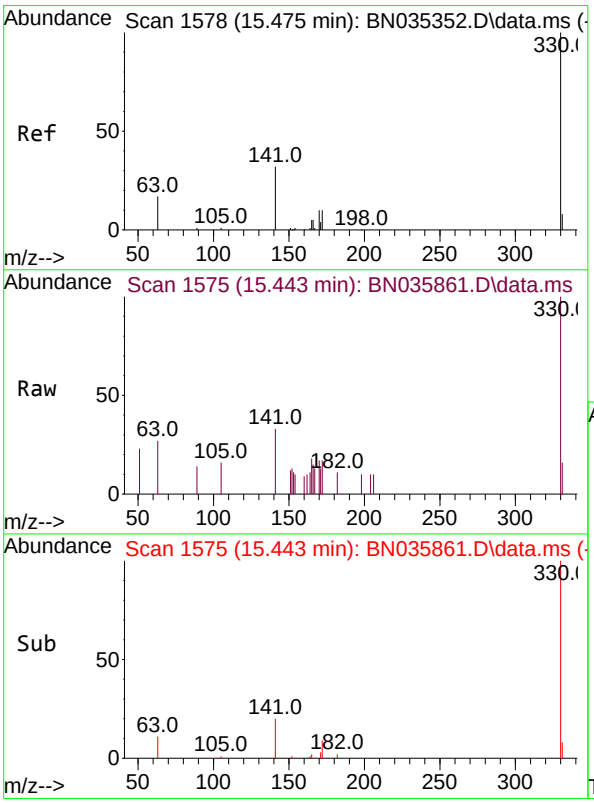
Tgt Ion:164 Resp: 447

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.3	40.1	60.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

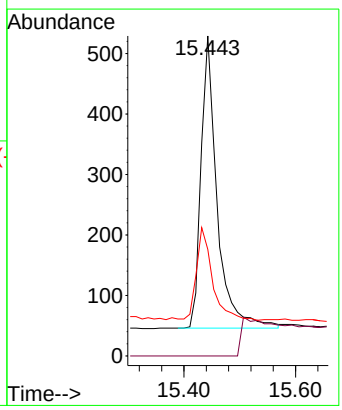


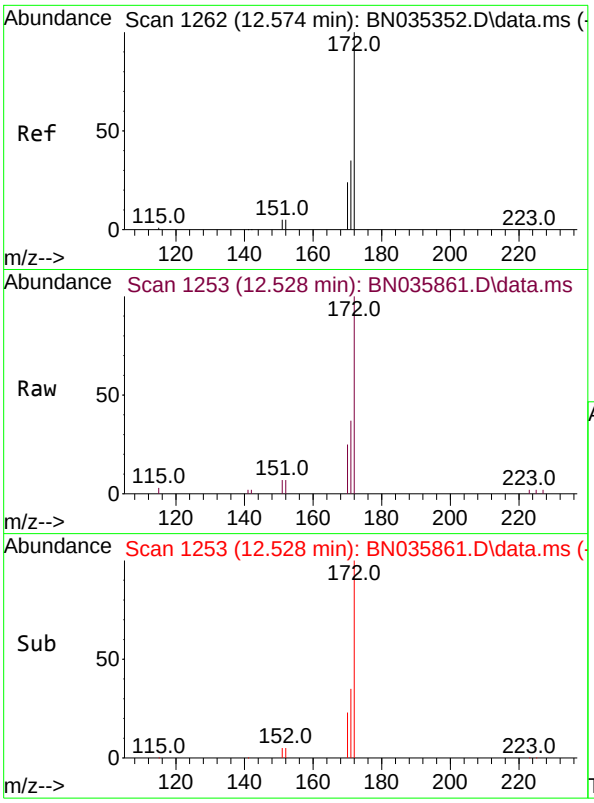


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.5	26.6	40.0

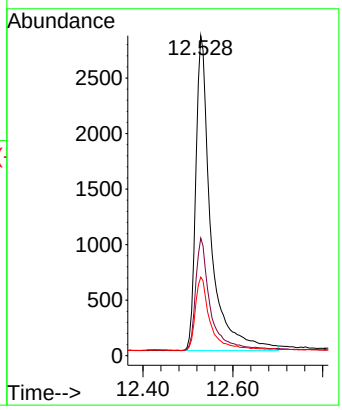




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:172 Resp: 661

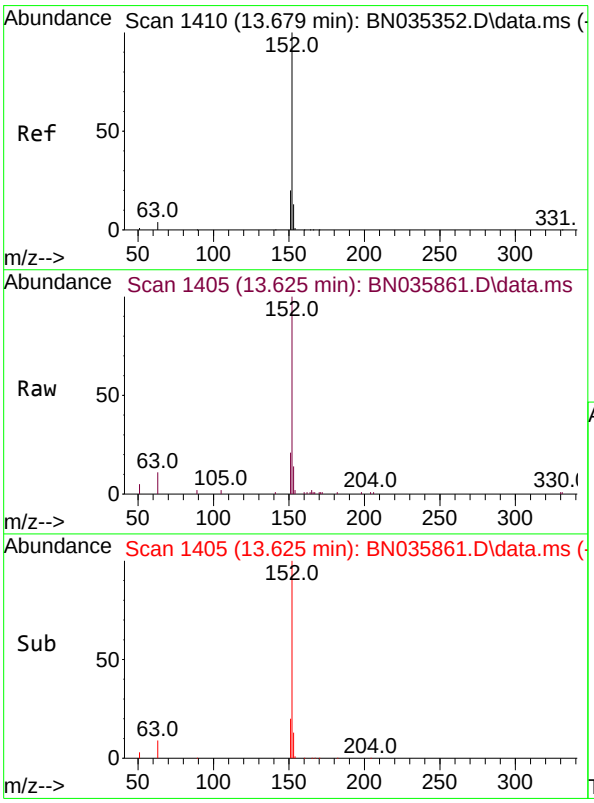
Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	24.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

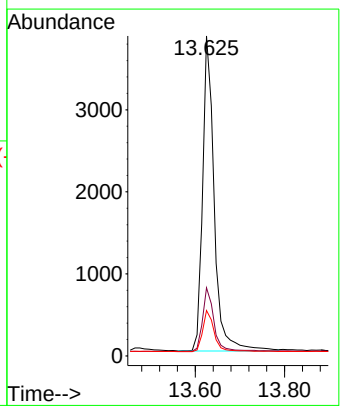
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

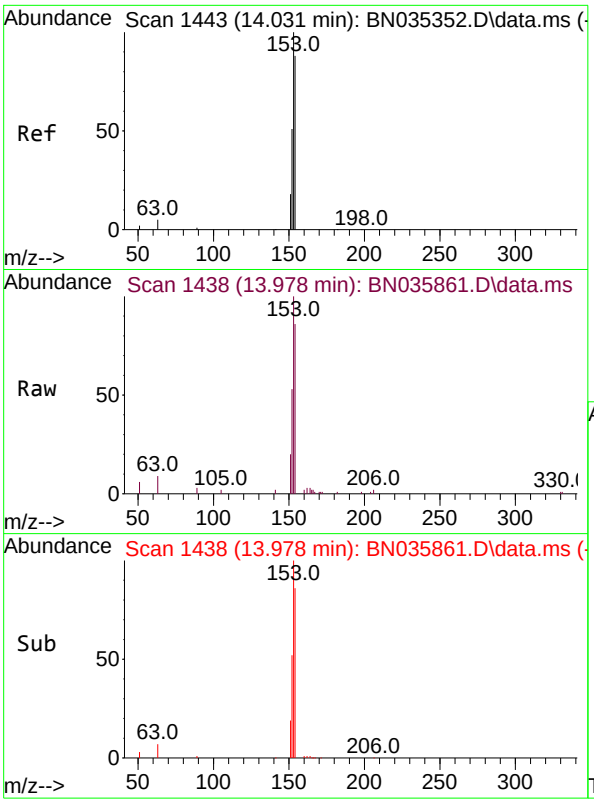


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6

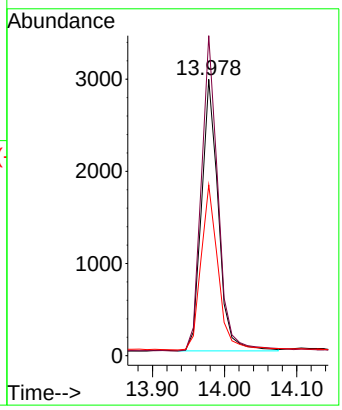




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:154 Resp: 477(

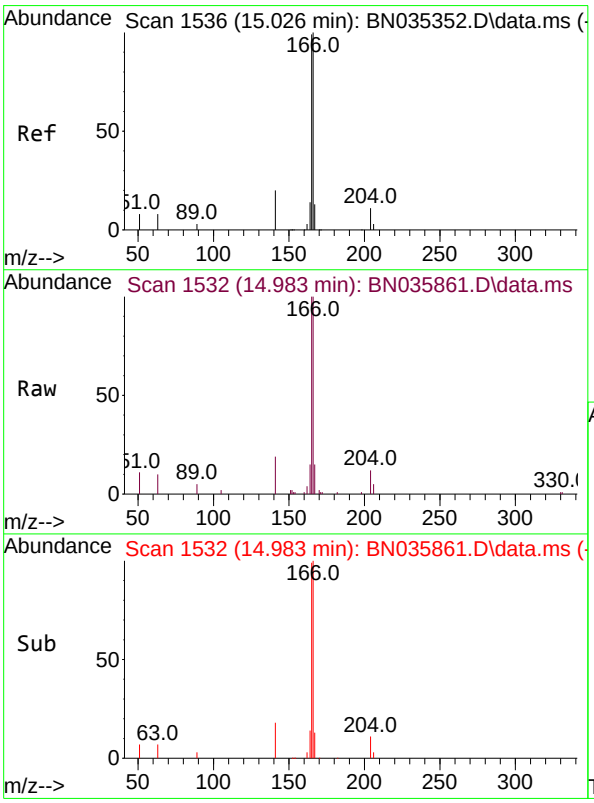
Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

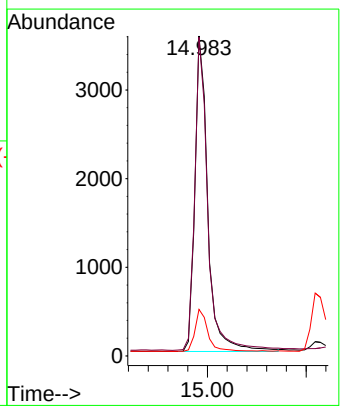
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

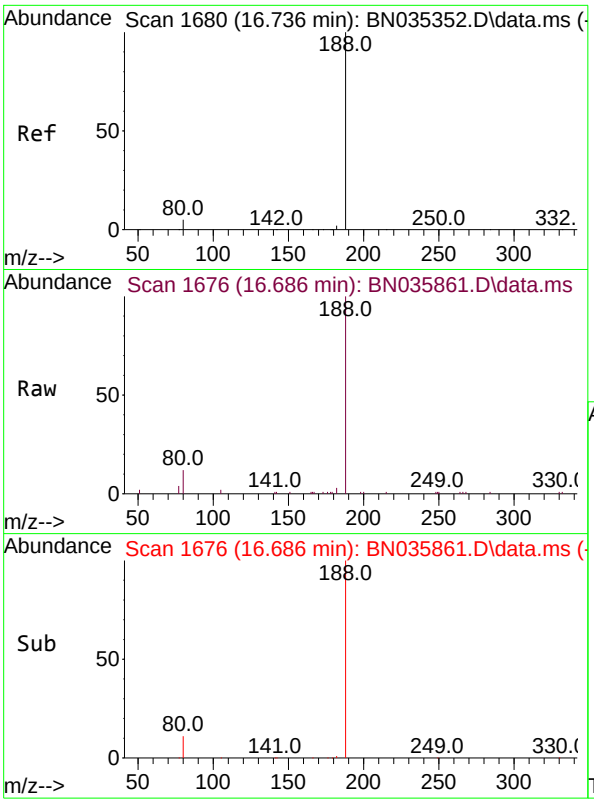


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.6	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

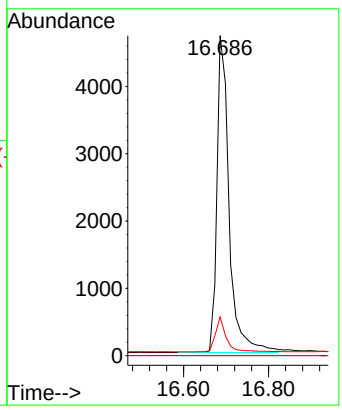
Tgt Ion:188 Resp: 937

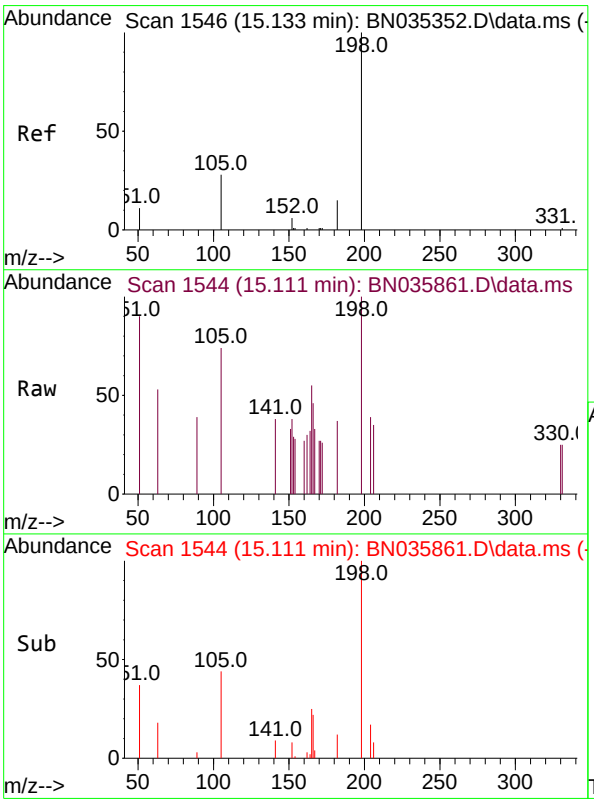
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

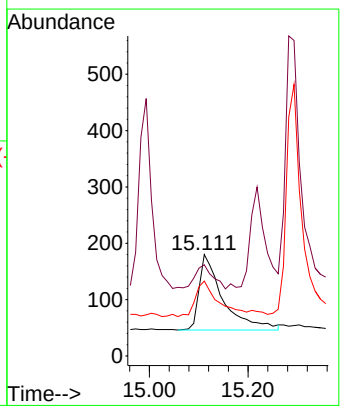


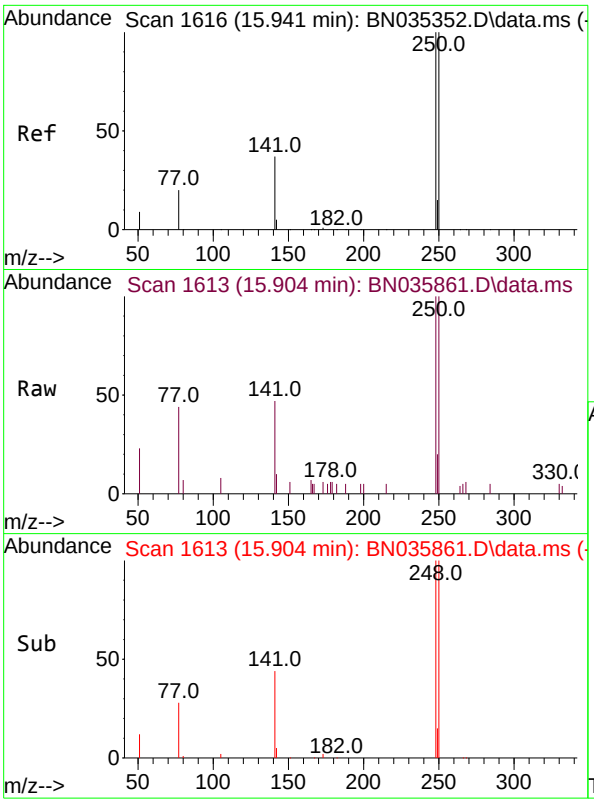


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

Ion	Ratio	Lower	Upper
198	100		
51	90.0	46.5	69.7#
105	73.9	45.3	67.9#

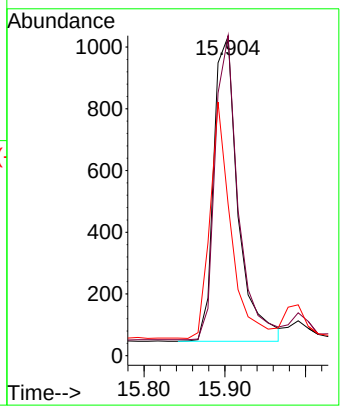




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:248 Resp: 207

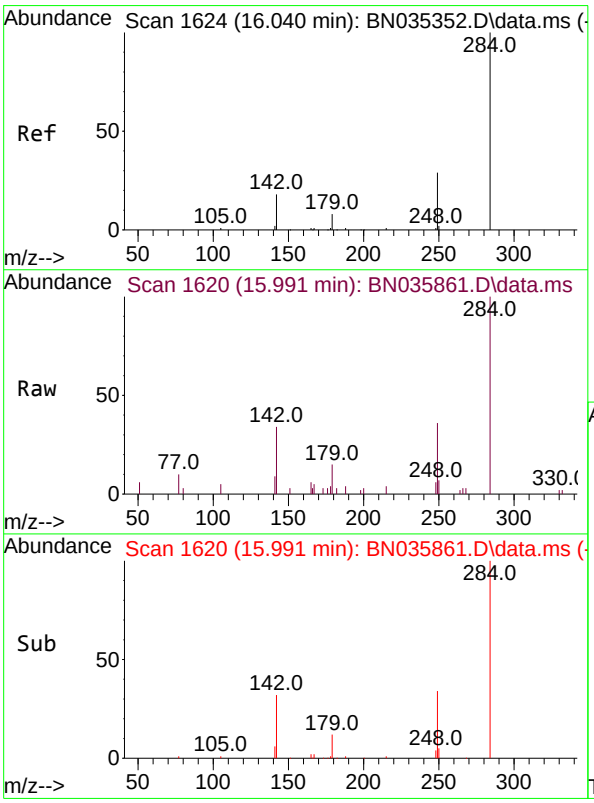
Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

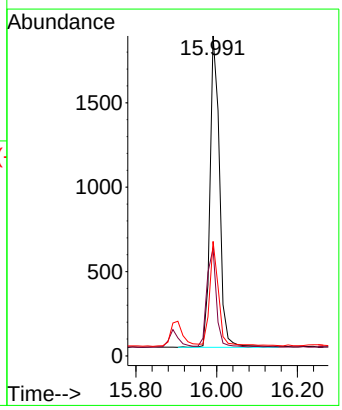
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

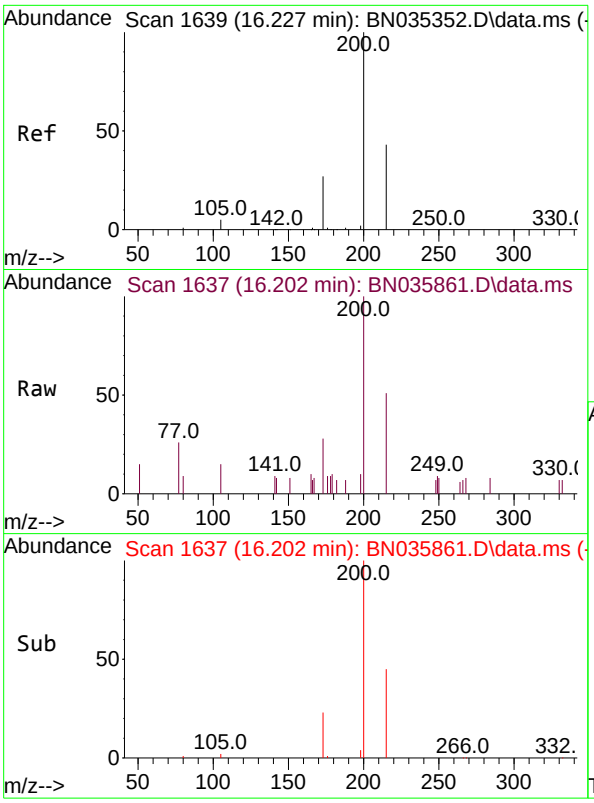


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8

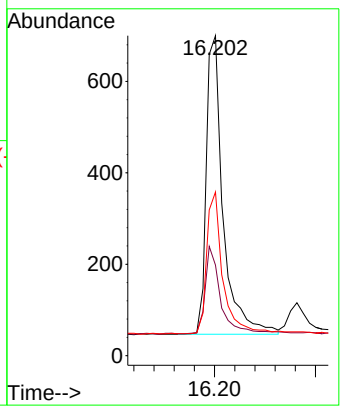




#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:200 Resp: 150

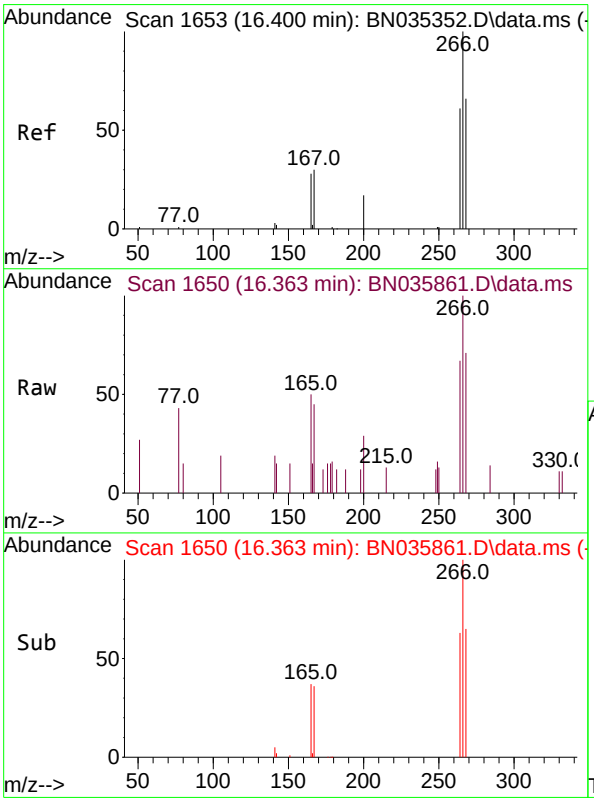
Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	51.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

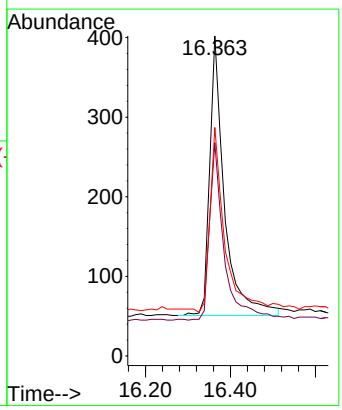
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

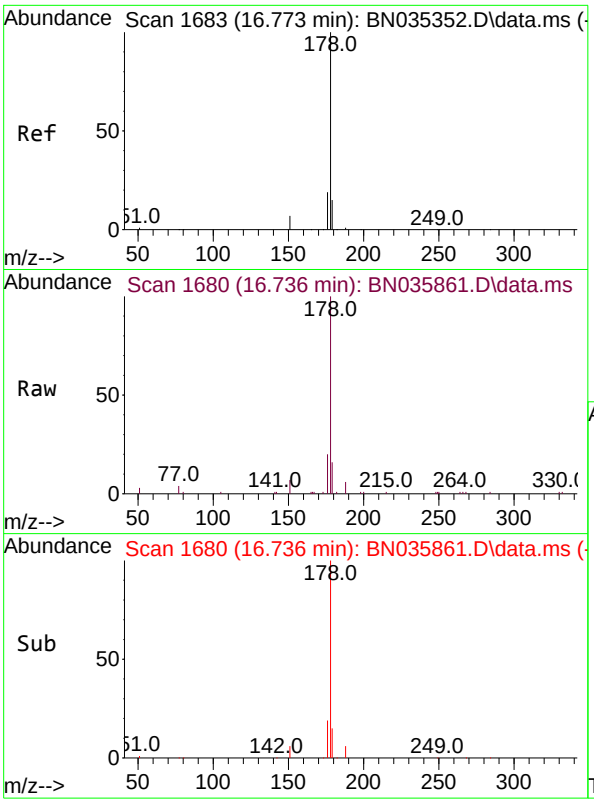


#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	67.7	43.3	64.9#

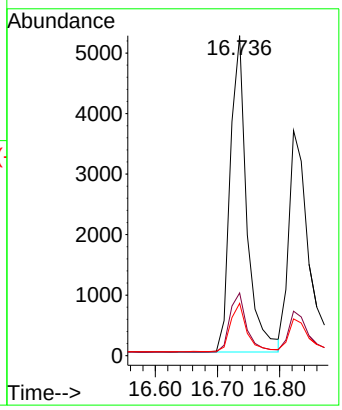




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 969

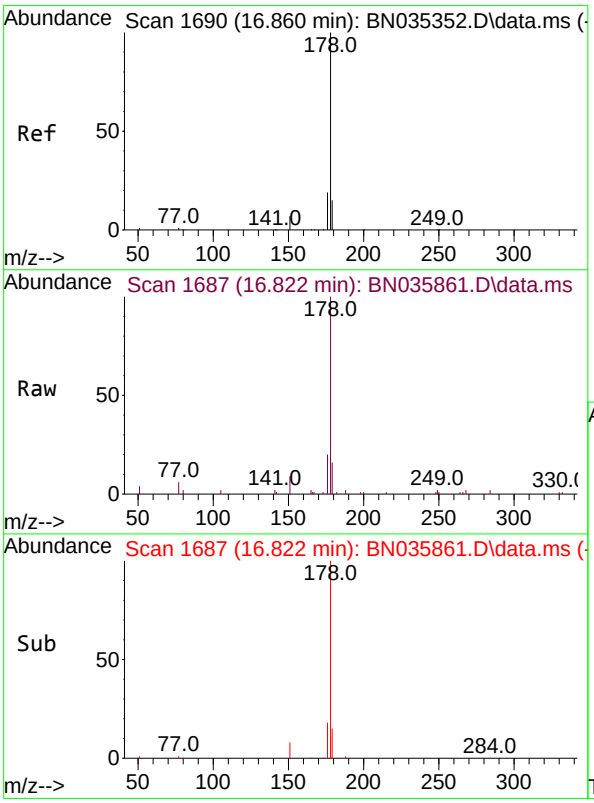
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.3	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

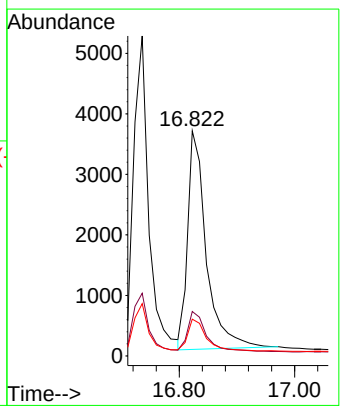
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

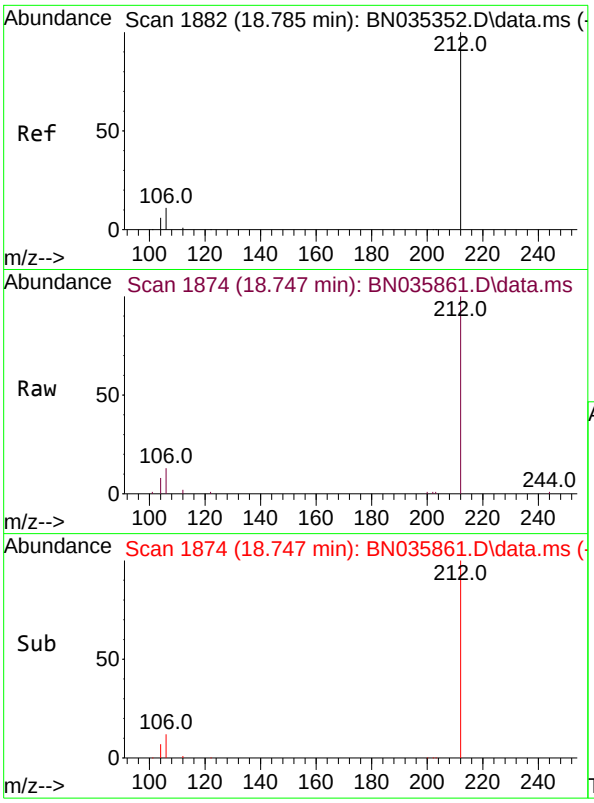


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8

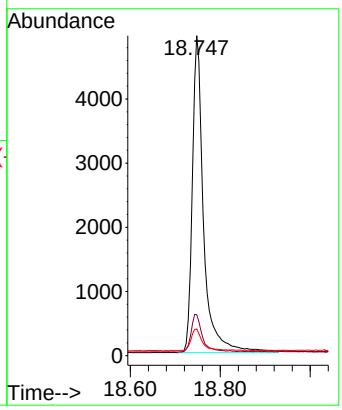




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:212 Resp: 864

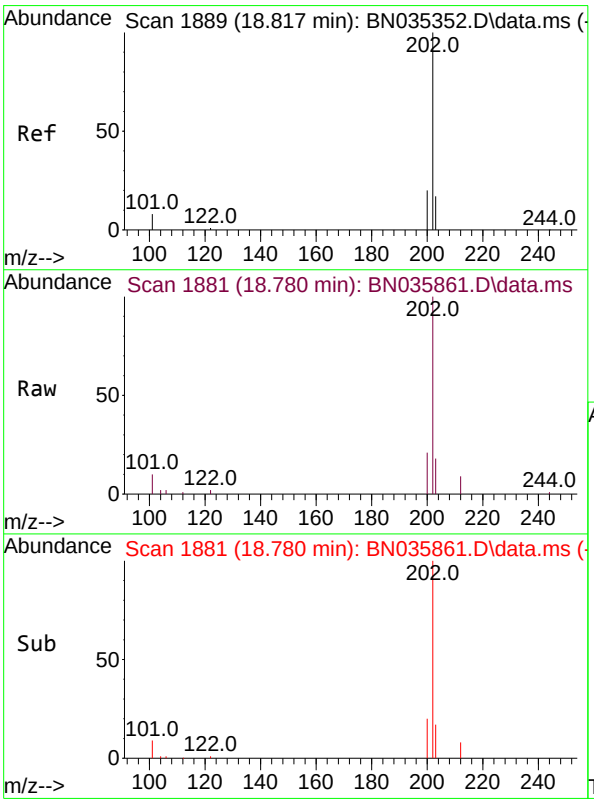
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

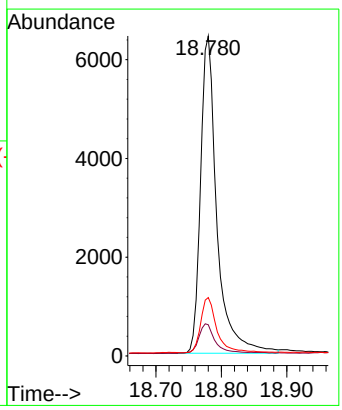
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

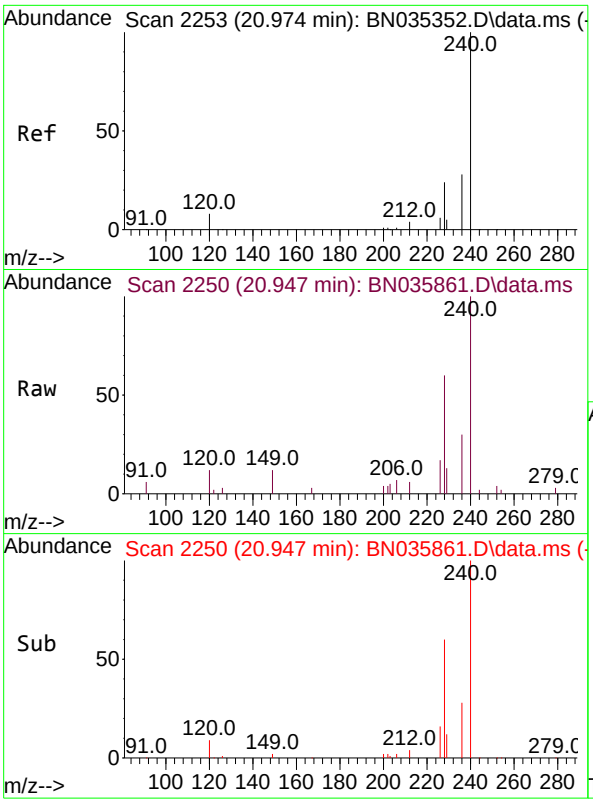


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.4	11.0
203	17.4	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

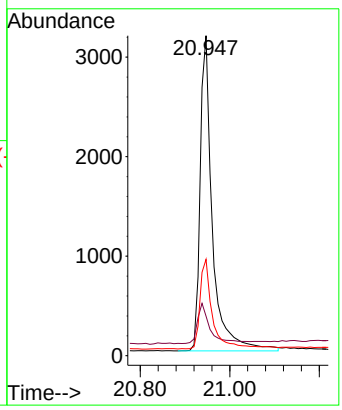
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

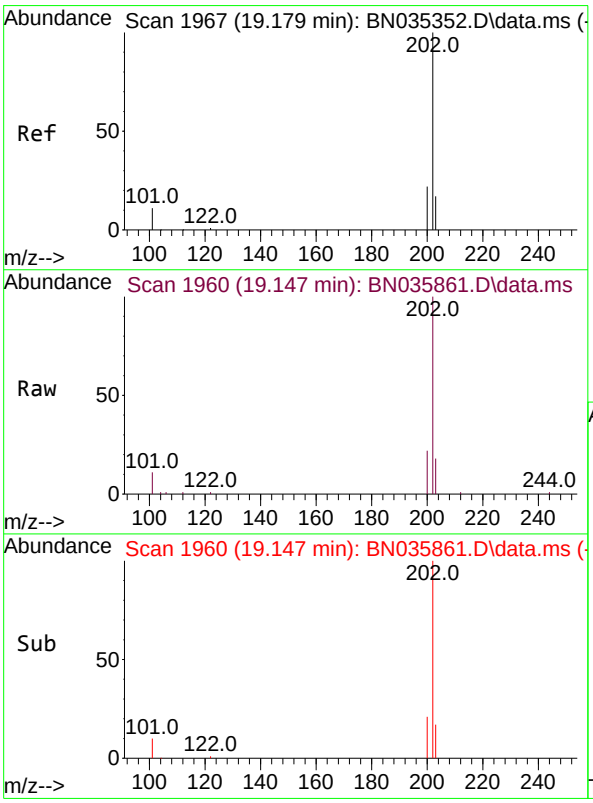
Tgt Ion:240 Resp: 602

Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.9	11.9
236	30.1	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

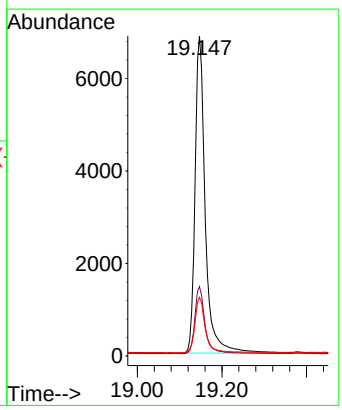


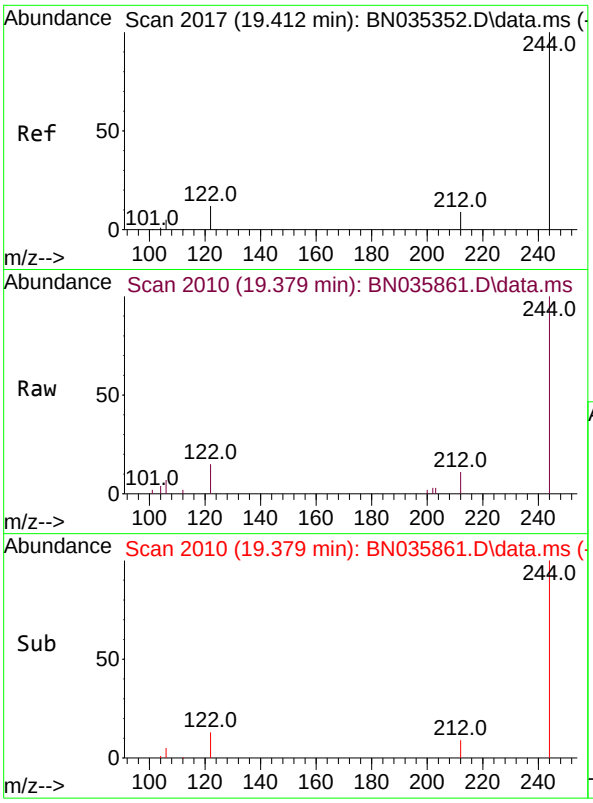


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5

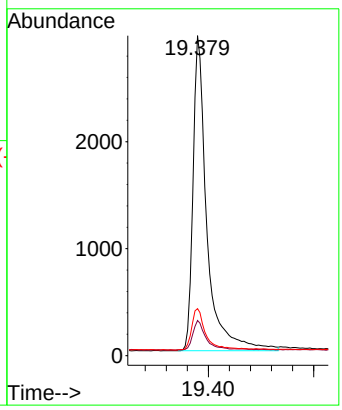




#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:244 Resp: 540

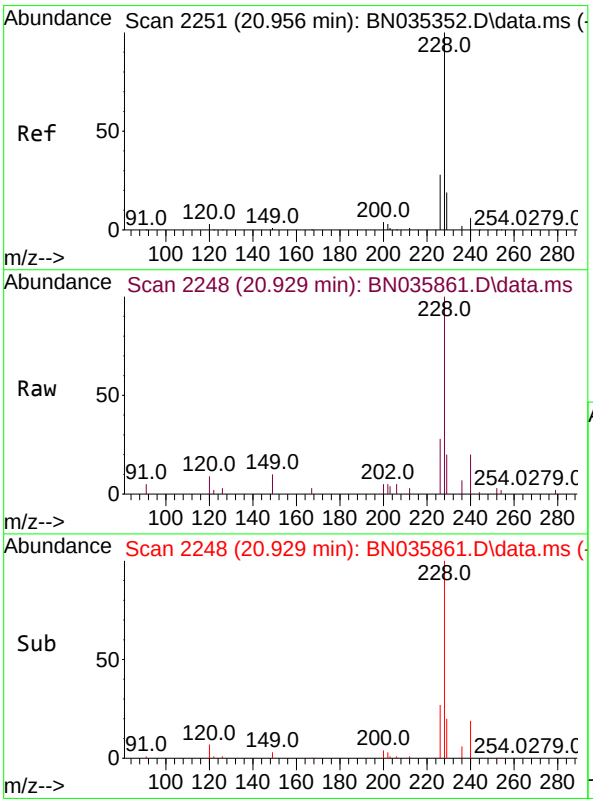
Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

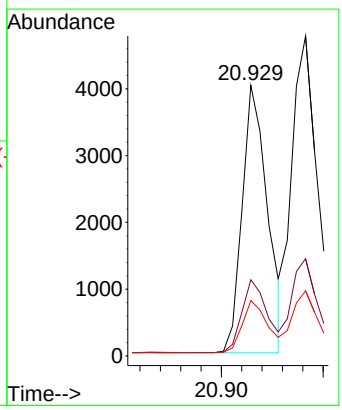
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

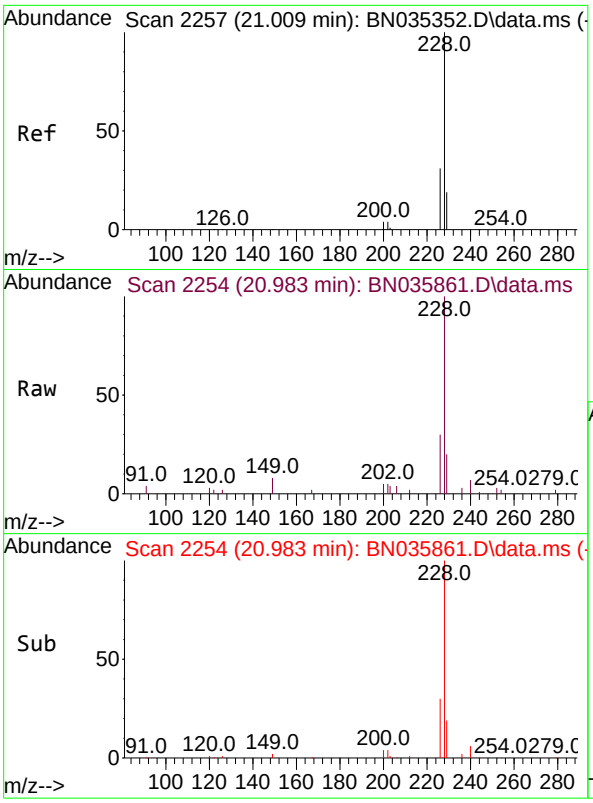


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8

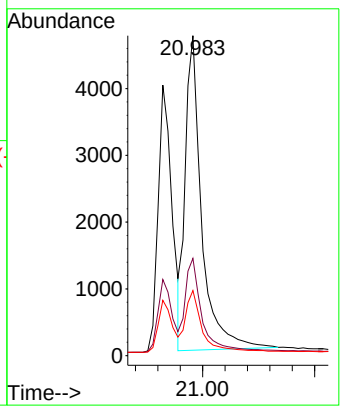




#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 957

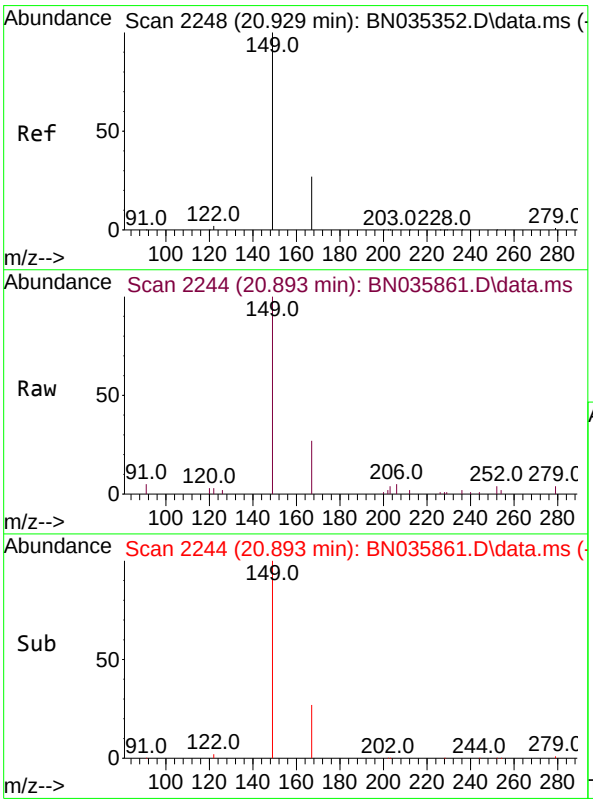
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.3	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

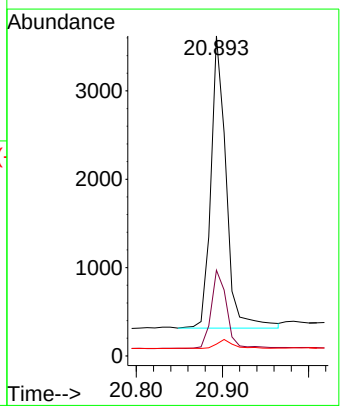
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

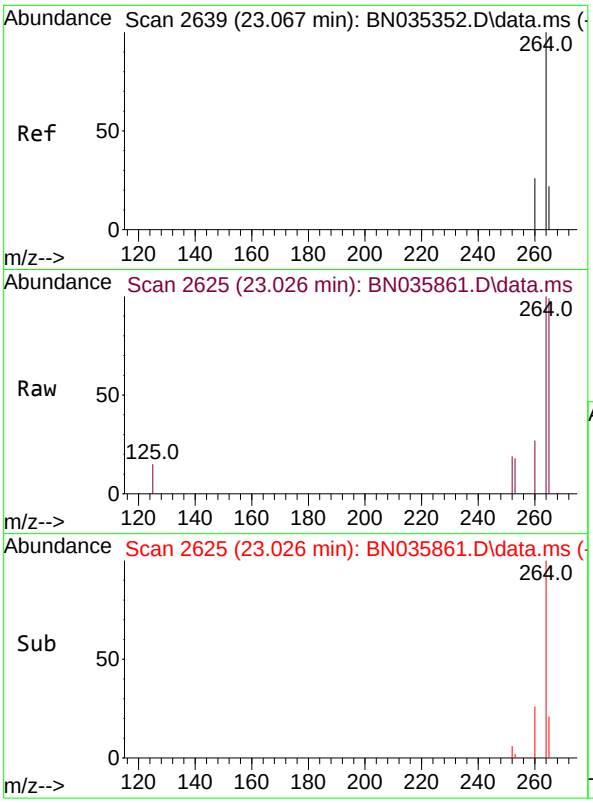


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.2	2.7	4.1

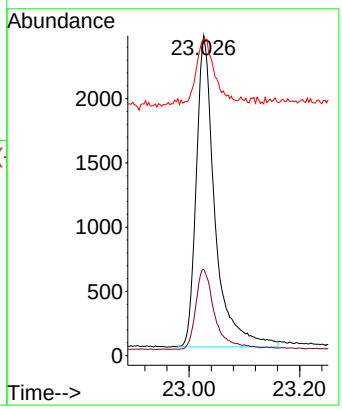




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:264 Resp: 569

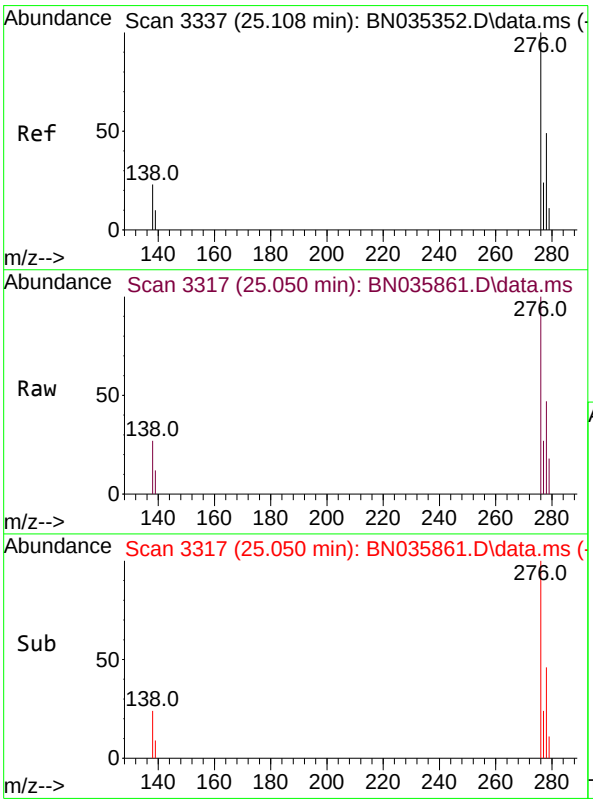
Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	99.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

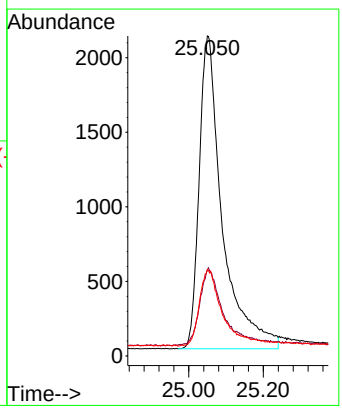
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

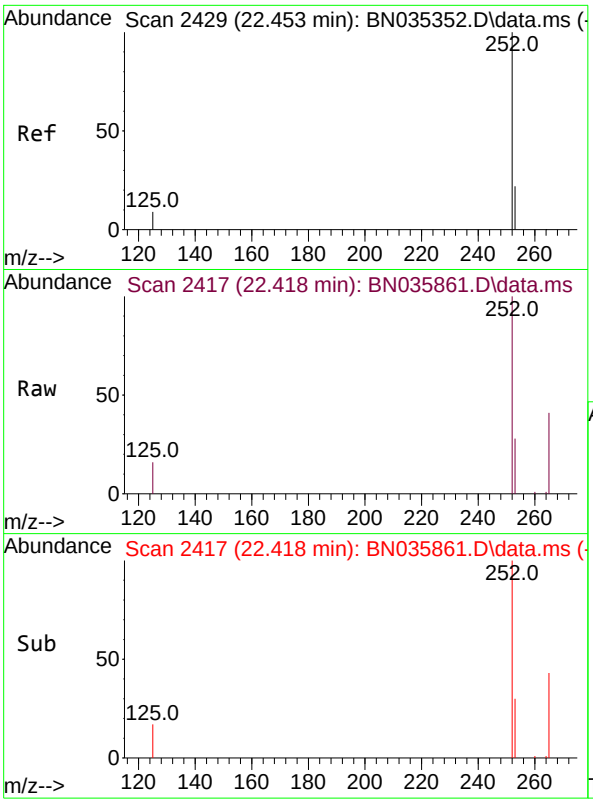


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	23.4	19.8	29.6

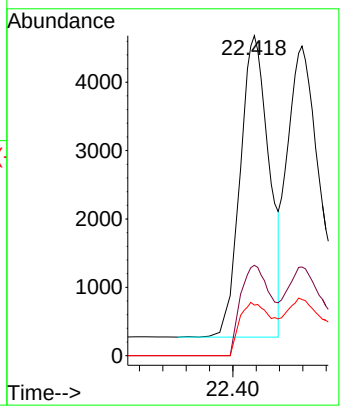




#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 1180

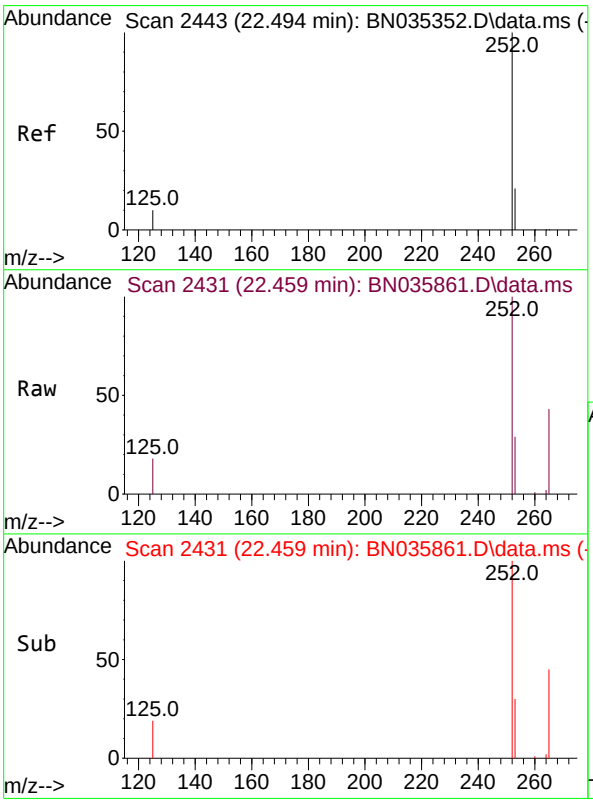
Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.6	29.4
125	15.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

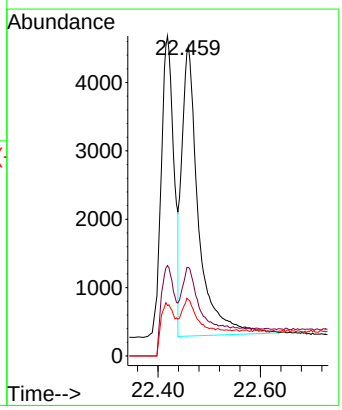
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

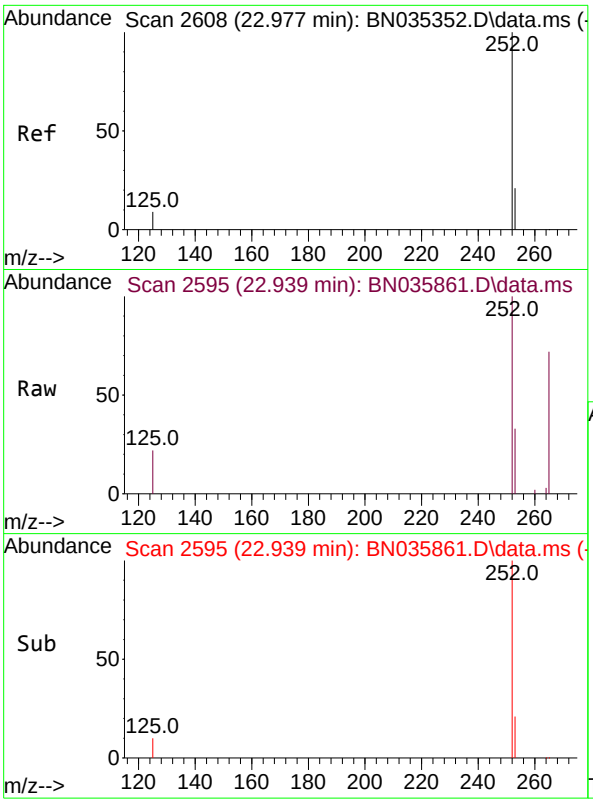


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.5	29.3
125	18.2	10.2	15.4#

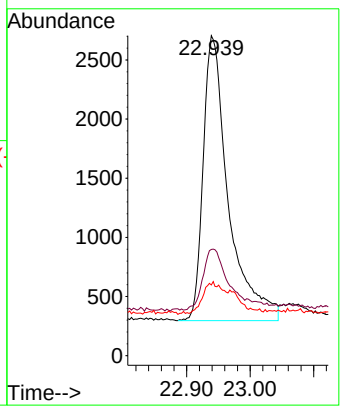




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 664

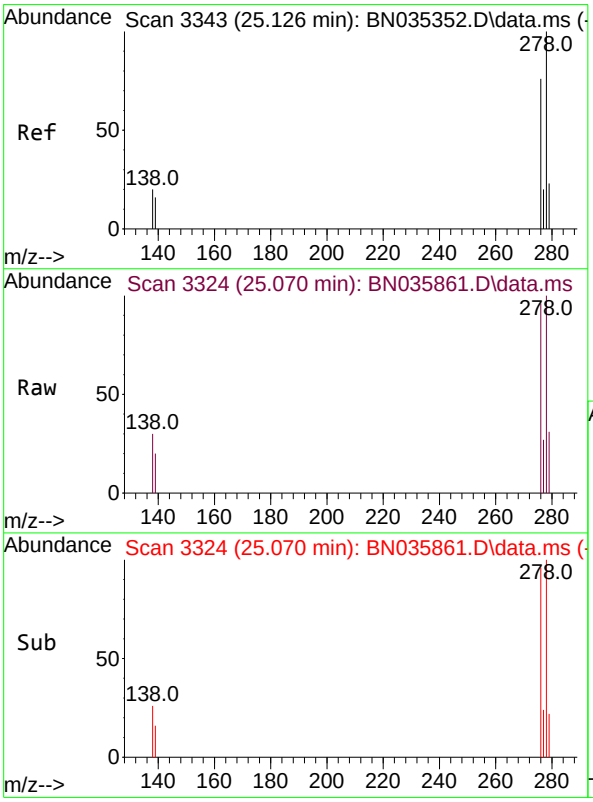
Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

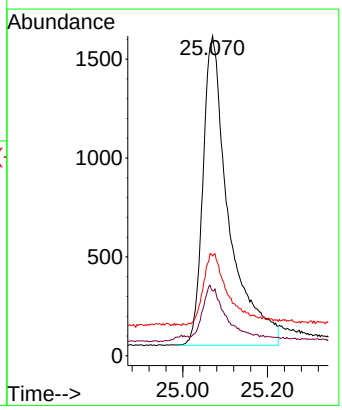
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

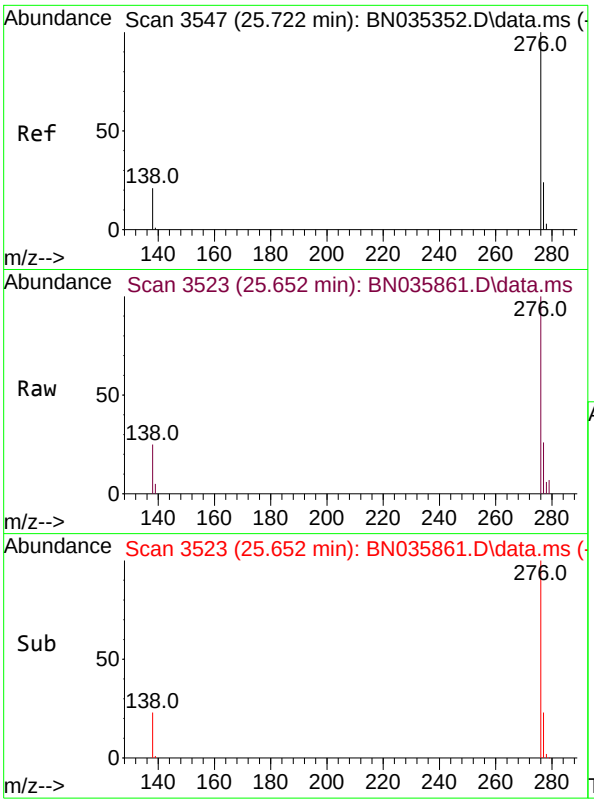


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#

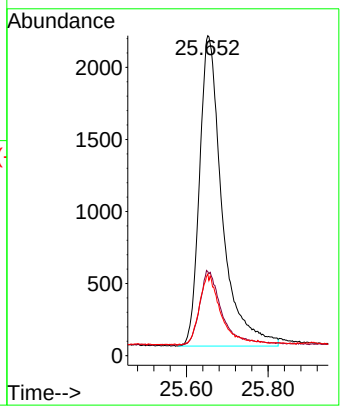




#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 830

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	25.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Sample Results: **BN035861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	151#	-0.01
2		1,4-Dioxane	0.382	0.394	-3.1	158#	0.00
3		n-Nitrosodimethylamine	0.319	0.331	-3.8	153#	0.00
4	S	2-Fluorophenol	1.001	0.931	7.0	138	-0.01
5	S	Phenol-d6	1.204	1.022	15.1	129	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.883	12.7	134	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	138	-0.02
8	S	Nitrobenzene-d5	0.244	0.306	-25.4#	180#	-0.01
9		Naphthalene	1.055	1.038	1.6	137	-0.01
10		Hexachlorobutadiene	0.243	0.275	-13.2	154#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.551	12.0	123	-0.02
12		2-Methylnaphthalene	0.755	0.655	13.2	123	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.225	20.8	103	-0.01
15	S	2-Fluorobiphenyl	1.512	1.480	2.1	115	-0.02
16		Acenaphthylene	1.680	1.548	7.9	114	-0.02
17		Acenaphthene	1.115	1.068	4.2	116	-0.02
18		Fluorene	1.596	1.449	9.2	110	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.048	-23.1	134	-0.01
21		4-Bromophenyl-phenylether	0.234	0.221	5.6	97	-0.01
22		Hexachlorobenzene	0.275	0.322	-17.1	116	-0.02
23		Atrazine	0.167	0.161	3.6	103	0.00
24		Pentachlorophenol	0.120	0.090	25.0	93	-0.01
25		Phenanthrene	1.099	1.035	5.8	96	-0.01
26		Anthracene	0.994	0.864	13.1	91	-0.01
27	SURR	Fluoranthene-d10	1.134	0.922	18.7	85	-0.01
28		Fluoranthene	1.481	1.189	19.7	83	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	63	0.00
30		Pyrene	1.477	1.909	-29.2#	82	-0.01
31	S	Terphenyl-d14	0.789	0.898	-13.8	72	0.00
32		Benzo(a)anthracene	1.399	1.146	18.1	53	0.00
33		Chrysene	1.443	1.591	-10.3	70	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.676	-22.2	83	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	53	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.584	-1.3	54	-0.02
37		Benzo(b)fluoranthene	1.463	2.071	-41.6#	83	-0.01
38		Benzo(k)fluoranthene	1.440	1.691	-17.4	63	-0.01
39	C	Benzo(a)pyrene	1.205	1.165	3.3	53	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.164	5.7	51	-0.01
41		Benzo(g,h,i)perylene	1.289	1.456	-13.0	61	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	151	-0.01
2		1,4-Dioxane	0.400	0.412	-3.0	158	0.00
3		n-Nitrosodimethylamine	0.400	0.415	-3.7	153	0.00
4	S	2-Fluorophenol	0.400	0.372	7.0	138	-0.01
5	S	Phenol-d6	0.400	0.340	15.0	129	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.349	12.8	134	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	138	-0.02
8	S	Nitrobenzene-d5	0.400	0.501	-25.2#	180	-0.01
9		Naphthalene	0.400	0.394	1.5	137	-0.01
10		Hexachlorobutadiene	0.400	0.452	-13.0	154	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	123	-0.02
12		2-Methylnaphthalene	0.400	0.347	13.3	123	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.318	20.5	103	-0.01
15	S	2-Fluorobiphenyl	0.400	0.392	2.0	115	-0.02
16		Acenaphthylene	0.400	0.369	7.8	114	-0.02
17		Acenaphthene	0.400	0.383	4.3	116	-0.02
18		Fluorene	0.400	0.363	9.3	110	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.492	-23.0	134	-0.01
21		4-Bromophenyl-phenylether	0.400	0.378	5.5	97	-0.01
22		Hexachlorobenzene	0.400	0.468	-17.0	116	-0.02
23		Atrazine	0.400	0.386	3.5	103	0.00
24		Pentachlorophenol	0.400	0.302	24.5	93	-0.01
25		Phenanthrene	0.400	0.377	5.8	96	-0.01
26		Anthracene	0.400	0.348	13.0	91	-0.01
27	SURR	Fluoranthene-d10	0.400	0.325	18.8	85	-0.01
28		Fluoranthene	0.400	0.321	19.8	83	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	63	0.00
30		Pyrene	0.400	0.517	-29.3#	82	-0.01
31	S	Terphenyl-d14	0.400	0.455	-13.7	72	0.00
32		Benzo(a)anthracene	0.400	0.328	18.0	53	0.00
33		Chrysene	0.400	0.441	-10.2	70	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.489	-22.2	83	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	53	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.405	-1.3	54	-0.02
37		Benzo(b)fluoranthene	0.400	0.566	-41.5#	83	-0.01
38		Benzo(k)fluoranthene	0.400	0.470	-17.5	63	-0.01
39	C	Benzo(a)pyrene	0.400	0.387	3.3	53	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.377	5.8	51	-0.01
41		Benzo(g,h,i)perylene	0.400	0.452	-13.0	61	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

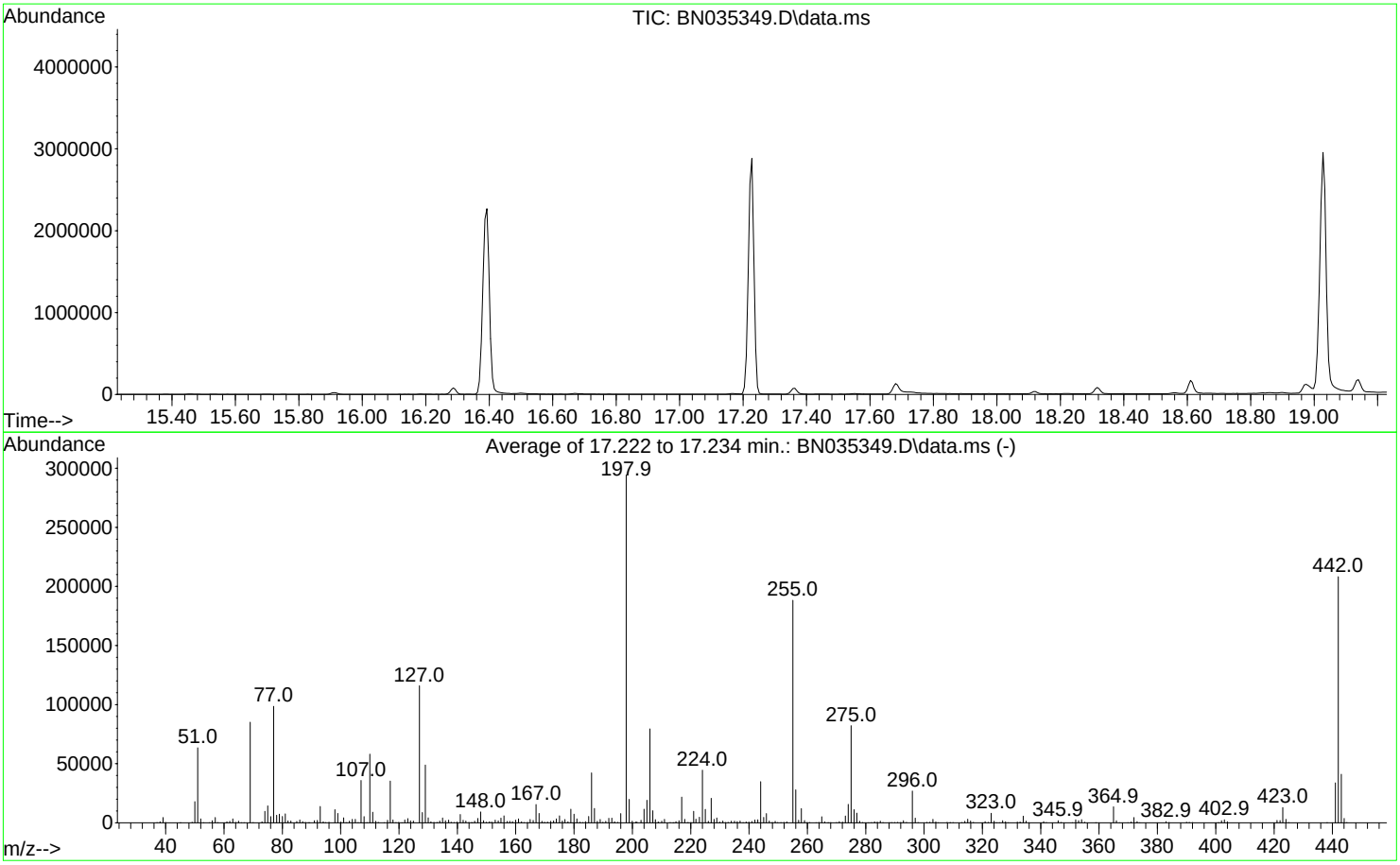
Sample Results: **BN035349.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.6	63480	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	28.9	85062	PASS
70	69	0.00	2	0.4	303	PASS
127	198	10	80	39.4	115899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	294229	PASS
199	198	5	9	6.7	19826	PASS
275	198	10	60	27.9	82149	PASS
365	198	1	100	4.6	13565	PASS
441	198	0.01	100	11.5	33811	PASS
442	442	50	100	100.0	208235	PASS
443	442	15	24	19.7	41045	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

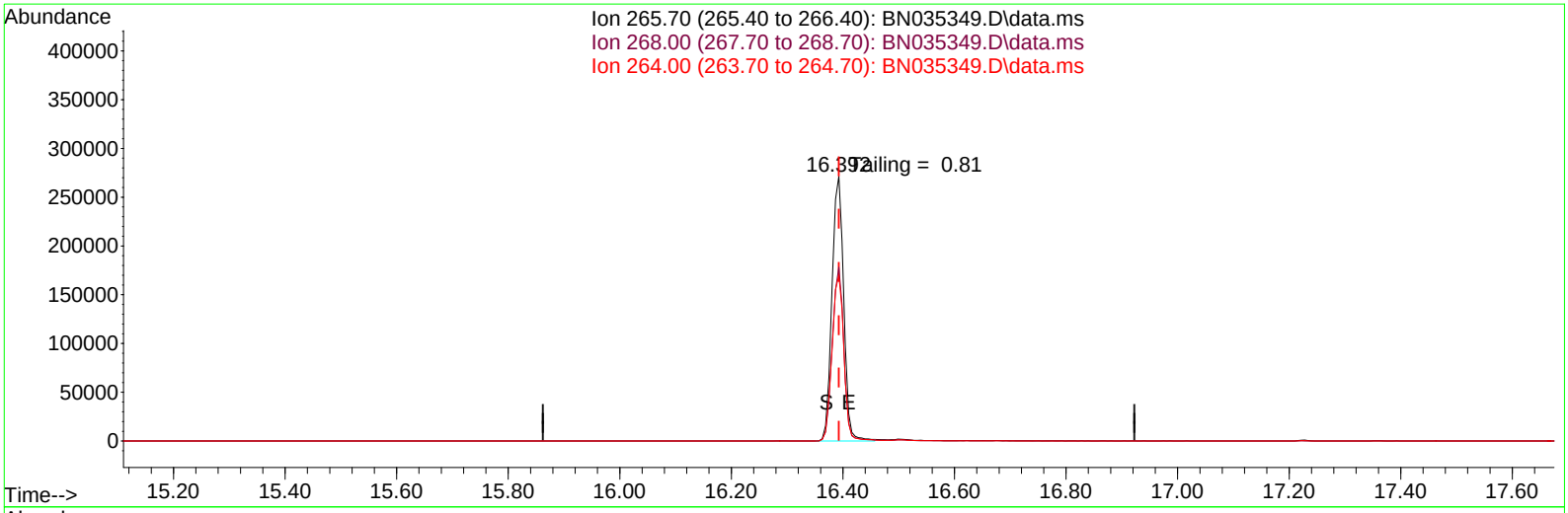
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	BN035349.D
Compound Name	**Response**	**Retention Time**
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
28214	1013671	2.78

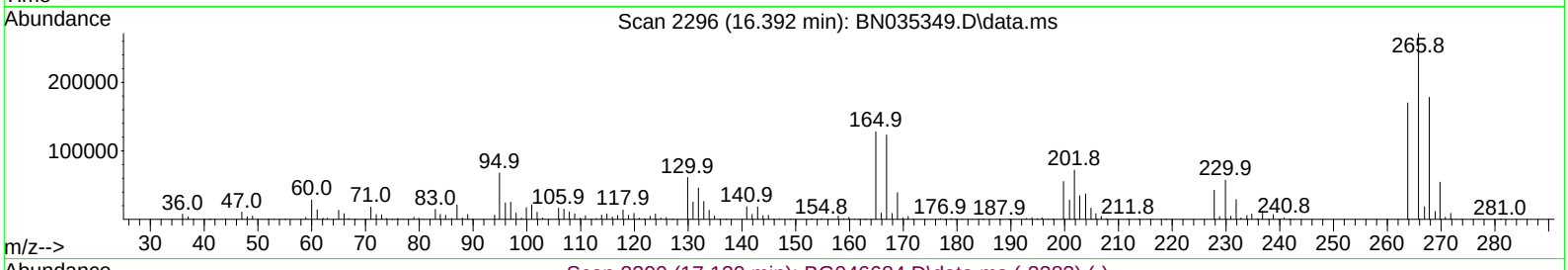
Sample Results: **BN035349.D**

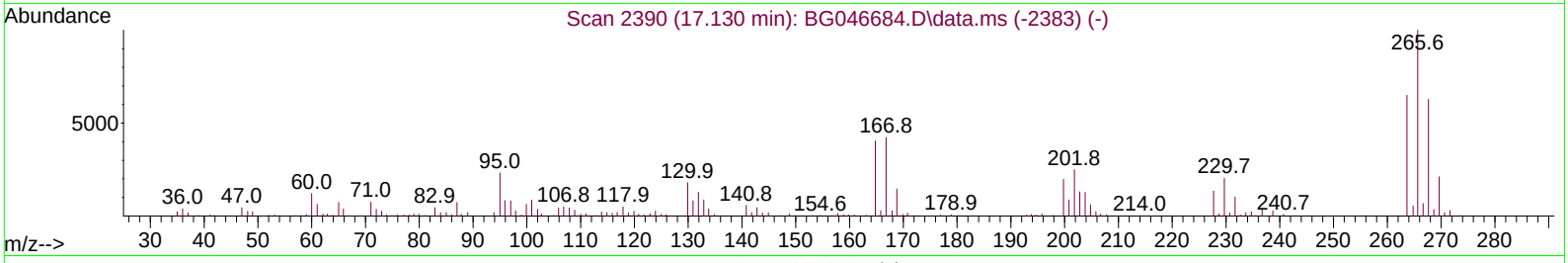
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

response 398074

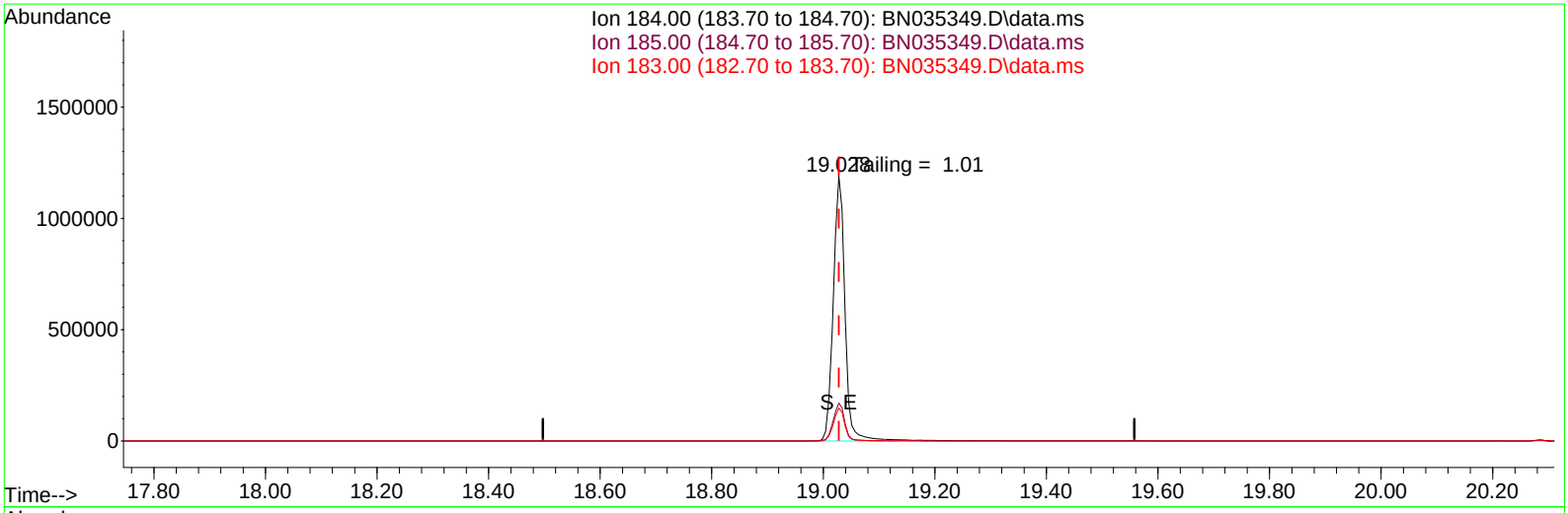
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

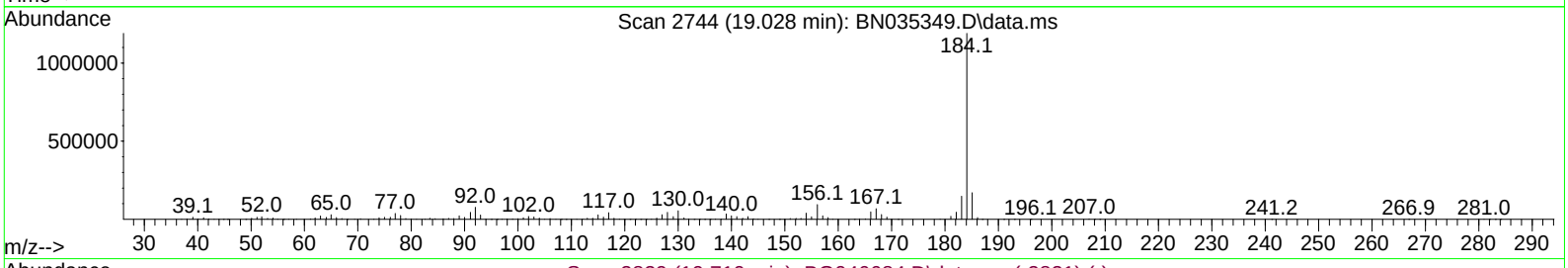
Sample Results: **BN035349.D**

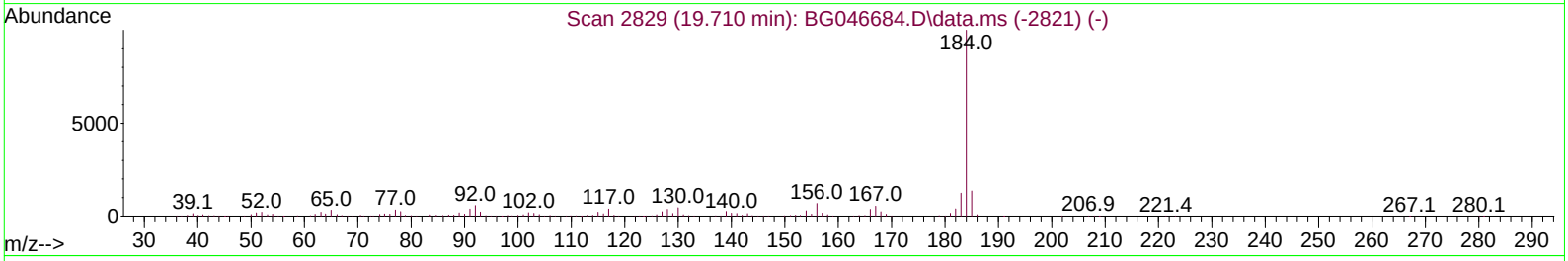
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(77) Benzidine

19.028min (0.000) 0.00 ng

response 1733630

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.34
183.00	13.20	12.42
0.00	0.00	0.00

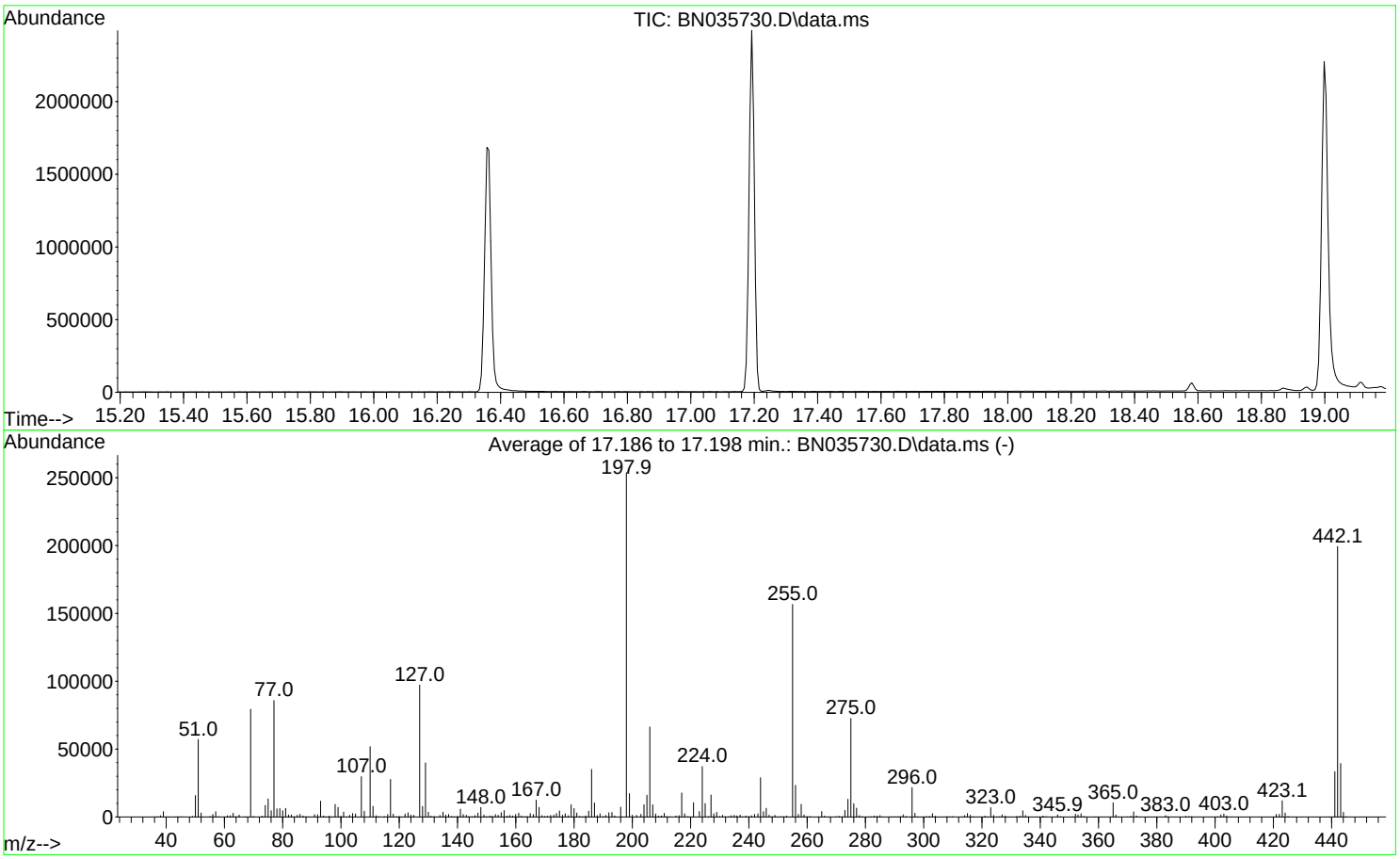
Sample Results: **BN035730.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035730.D
Acq On : 20 Dec 2024 07:25
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



AutoFind: Scans 2431, 2432, 2433; Background Corrected with Scan 2424

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.5	57147	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.3	79373	PASS
70	69	0.00	2	0.5	393	PASS
127	198	10	80	38.3	97248	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	253824	PASS
199	198	5	9	6.8	17235	PASS
275	198	10	60	28.6	72629	PASS
365	198	1	100	4.1	10491	PASS
441	198	0.01	100	13.2	33387	PASS
442	442	50	100	100.0	199296	PASS
443	442	15	24	19.8	39411	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

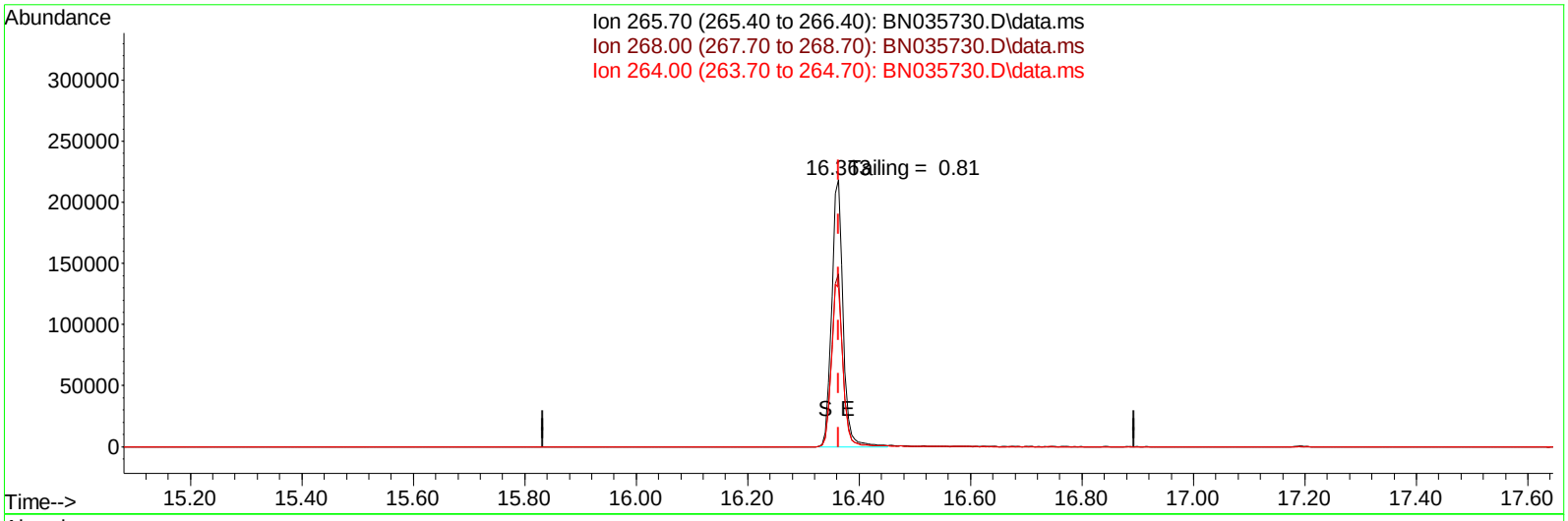
Date	Instrument Name	DFTPP Data File
12/19/2024	BNA_N	BN035730.D
Compound Name	**Response**	**Retention Time**
DDT	433840	20.257
DDD	250906	19.81
DDE	2152	19.292
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
253058	686898	36.84

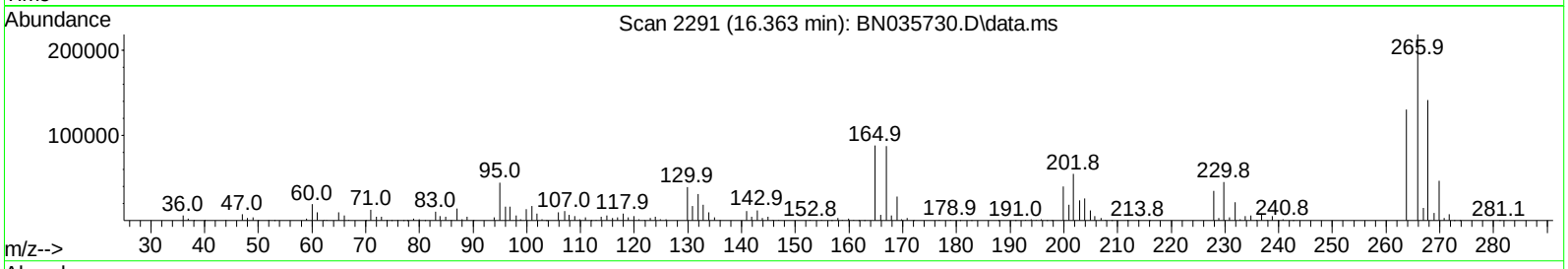
Sample Results: **BN035730.D**

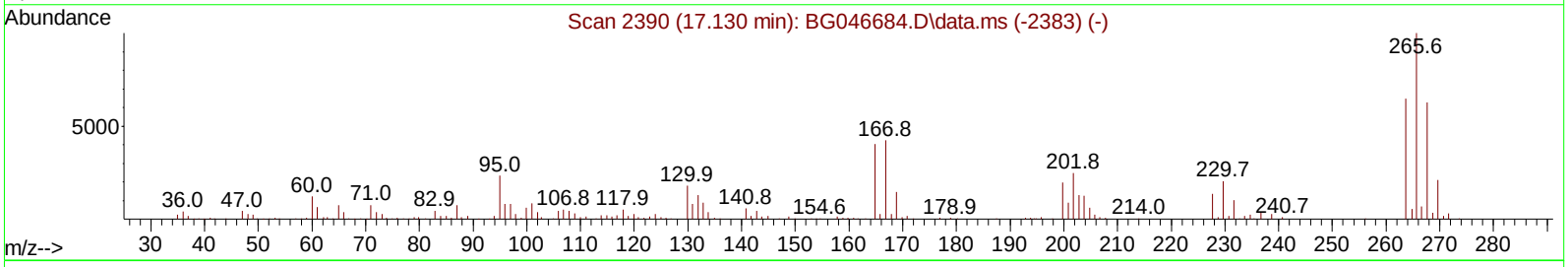
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035730.D
Acq On : 20 Dec 2024 07:25
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 20 08:05:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 20 08:05:13 2024
Response via : Initial Calibration







TIC: BN035730.D\data.ms

(70) Pentachlorophenol (C)

16.363min (0.000) 28931.39 ng

response 314005

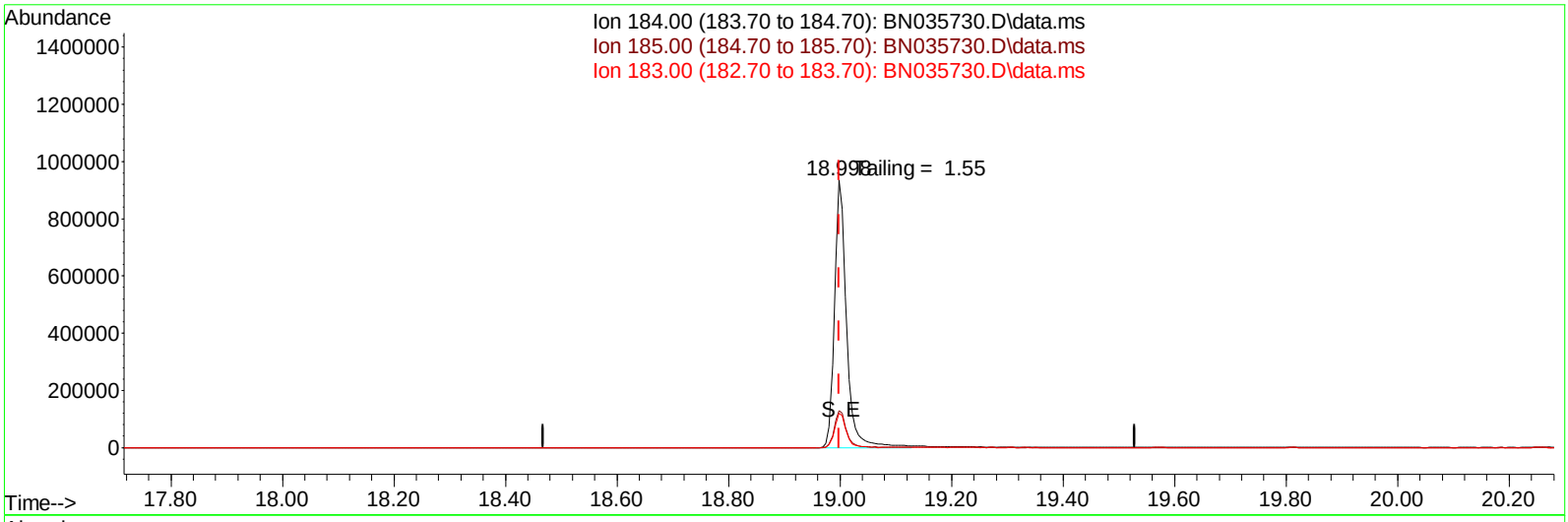
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.75
264.00	61.60	59.64
0.00	0.00	0.00

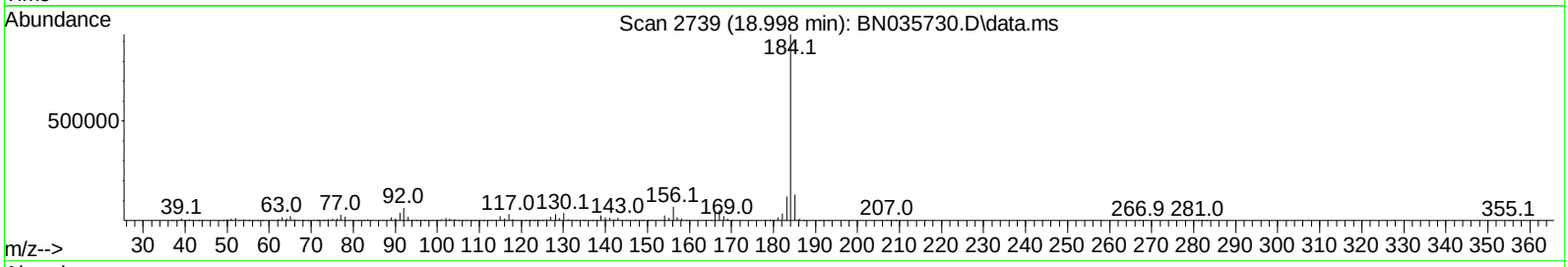
Sample Results: **BN035730.D**

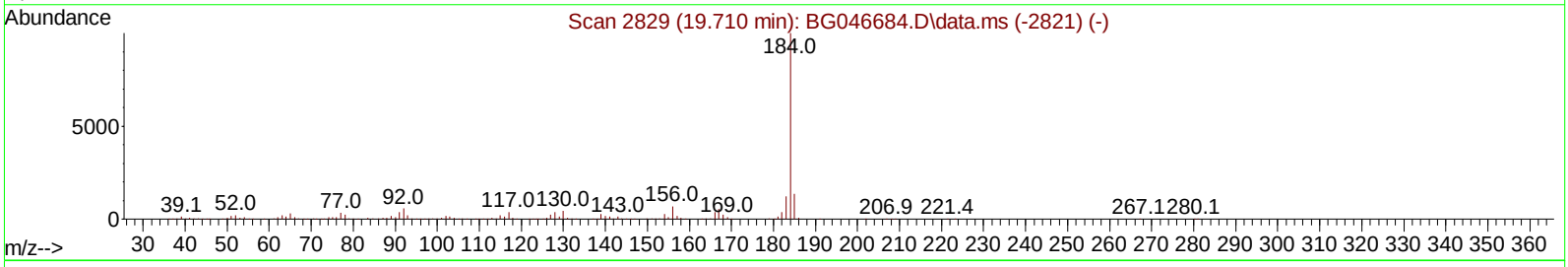
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035730.D
Acq On : 20 Dec 2024 07:25
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 20 08:05:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 20 08:05:13 2024
Response via : Initial Calibration







TIC: BN035730.D\data.ms

(77) Benzidine

18.998min (0.000) 0.00 ng

response 1433915

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.90
183.00	13.20	12.84
0.00	0.00	0.00

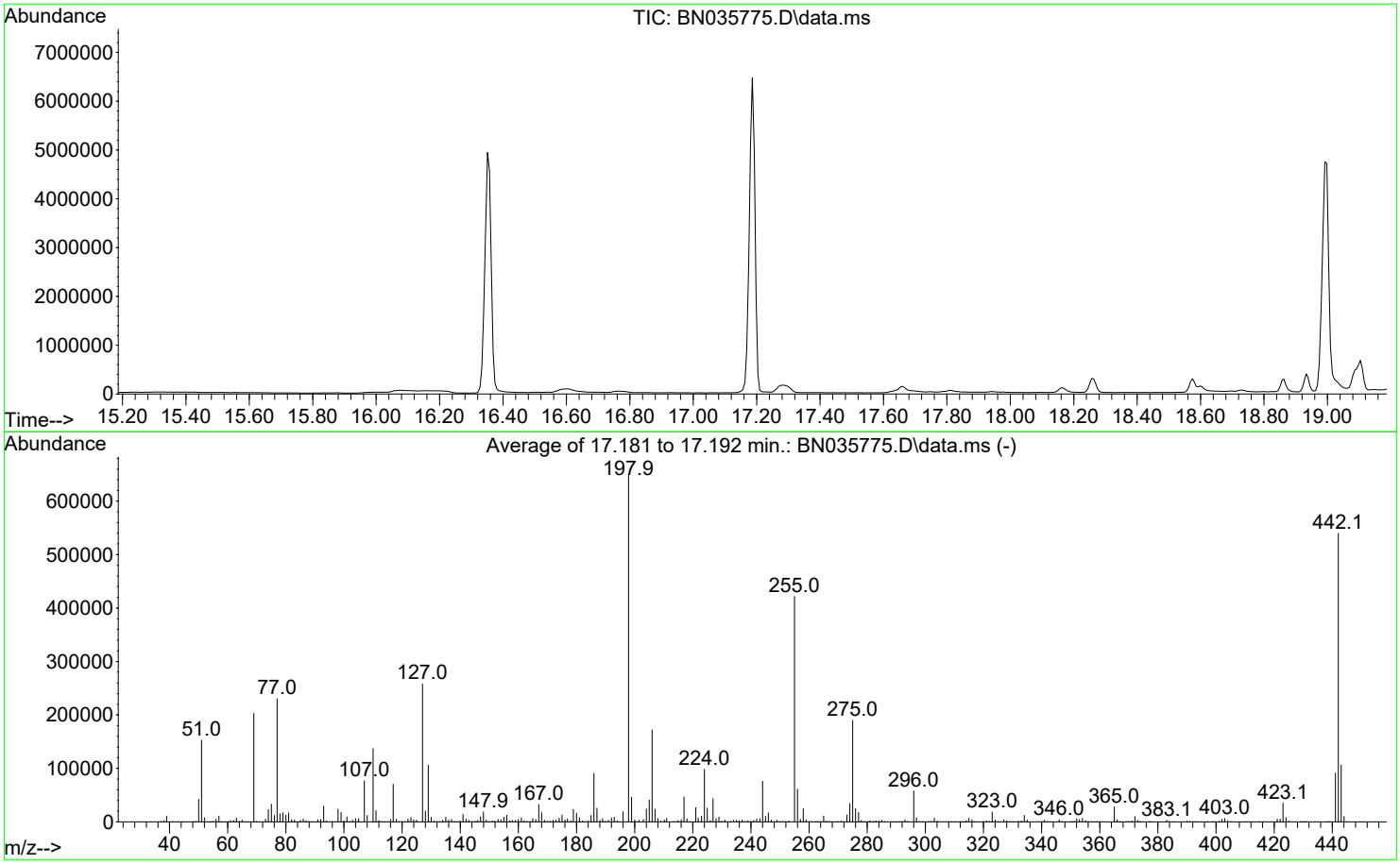
Sample Results: **BN035775.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.6	153048	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.2	202884	PASS
70	69	0.00	2	0.6	1170	PASS
127	198	10	80	39.7	257941	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	649856	PASS
199	198	5	9	7.1	46155	PASS
275	198	10	60	29.2	189589	PASS
365	198	1	100	4.3	28056	PASS
441	198	0.01	100	14.0	91216	PASS
442	442	50	100	100.0	539989	PASS
443	442	15	24	19.7	106520	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

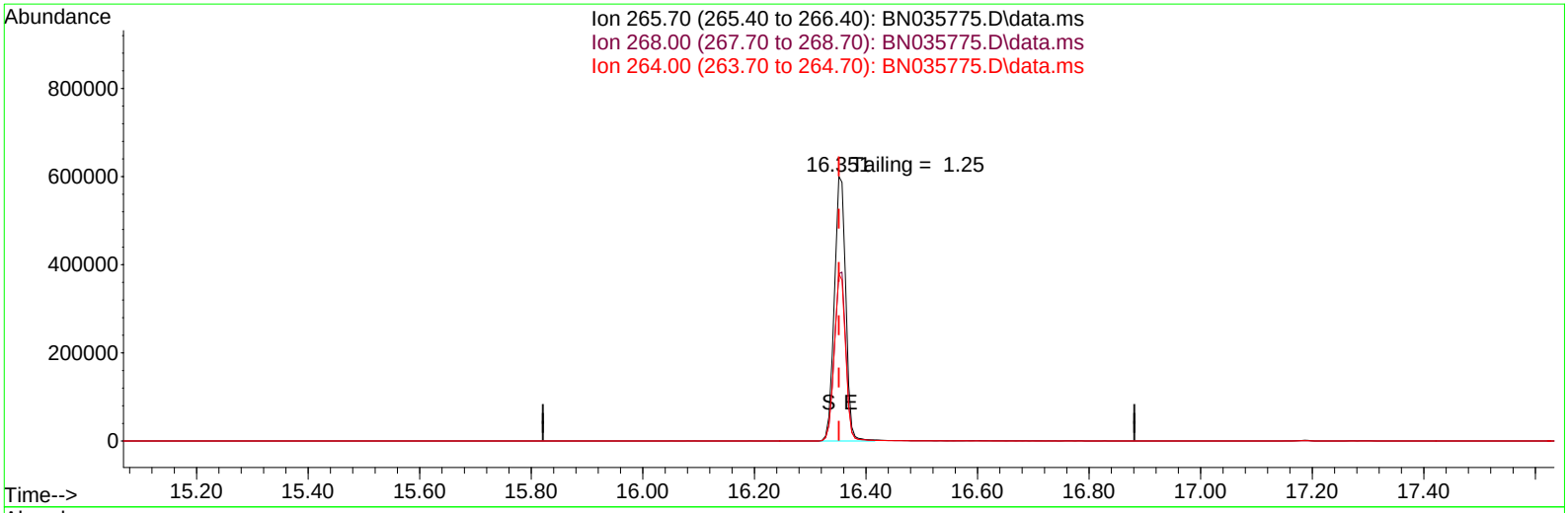
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035775.D
Compound Name	**Response**	**Retention Time**
DDT	1726374	20.251
DDD	285443	19.804
DDE	9189	19.286
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
294632	2021006	14.58

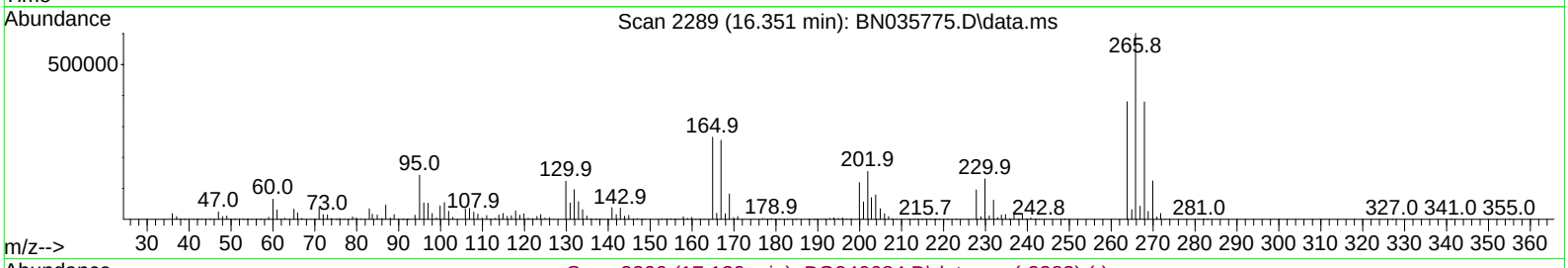
Sample Results: **BN035775.D**

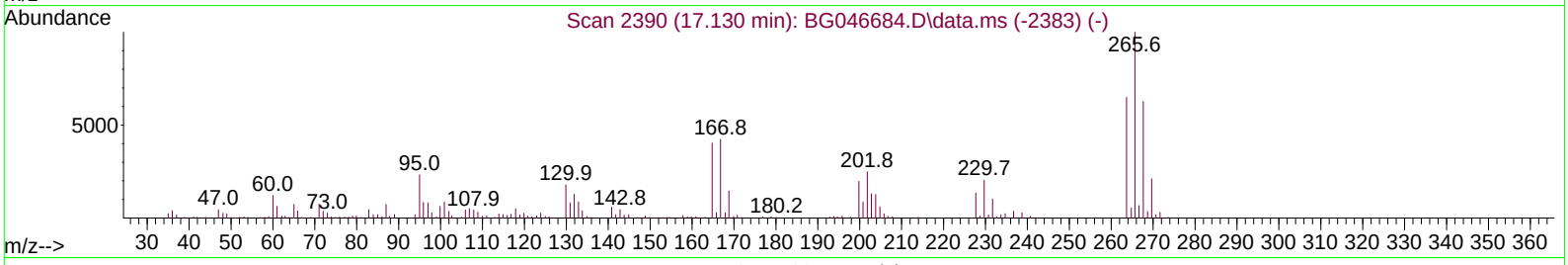
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:25:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:24:48 2024
Response via : Initial Calibration







TIC: BN035775.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 26248.44 ng

response 857335

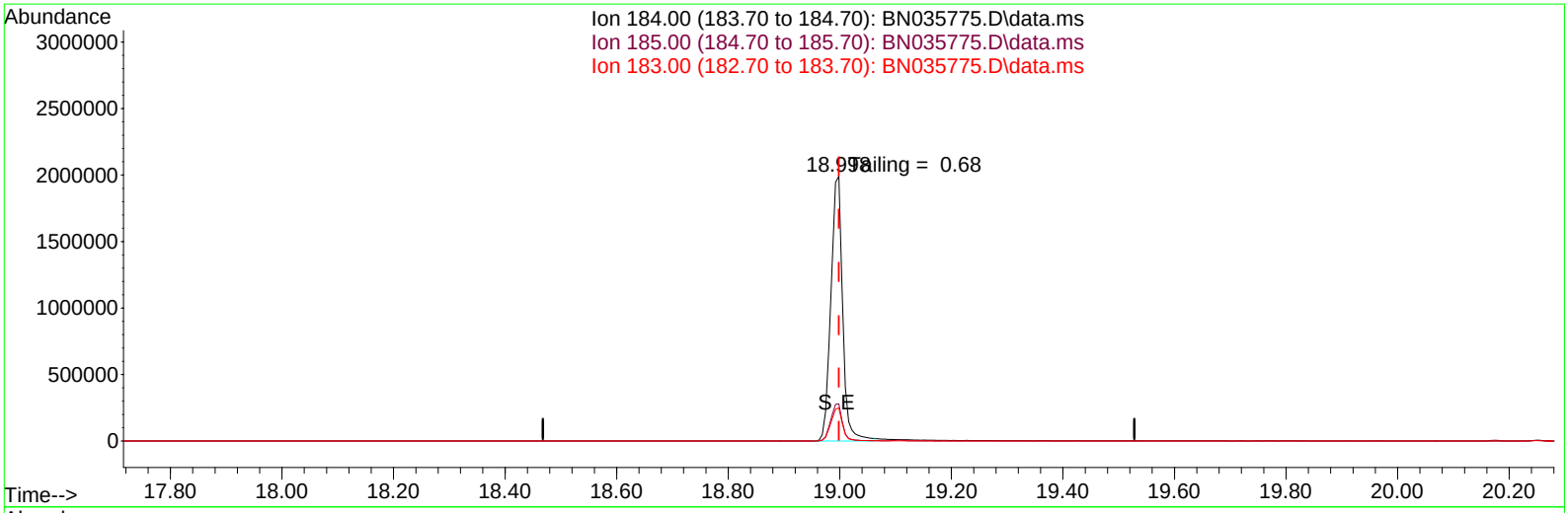
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.12
264.00	61.60	63.23
0.00	0.00	0.00

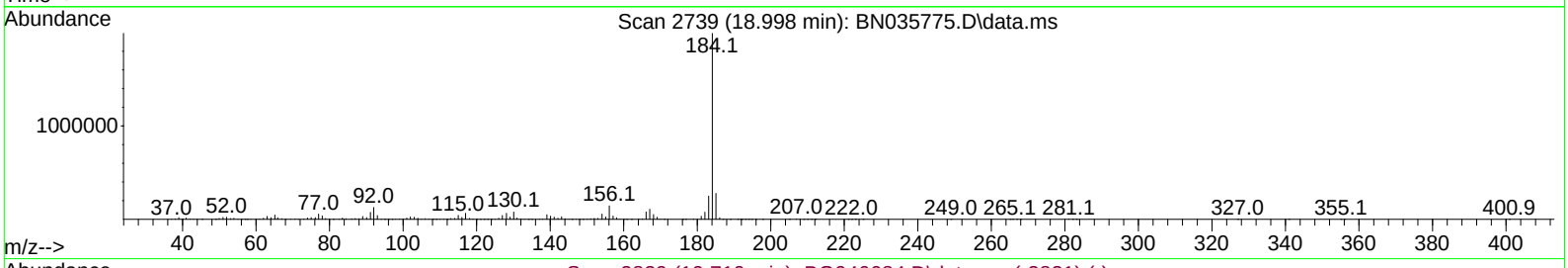
Sample Results: **BN035775.D**

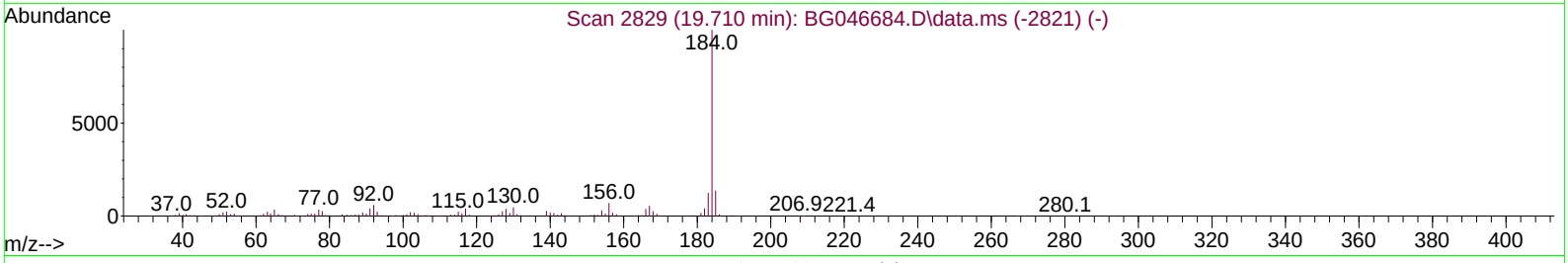
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:25:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:24:48 2024
Response via : Initial Calibration







TIC: BN035775.D\data.ms

(77) Benzidine

18.998min (0.000) 0.00 ng

response 2997835

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.00
183.00	13.20	12.55
0.00	0.00	0.00

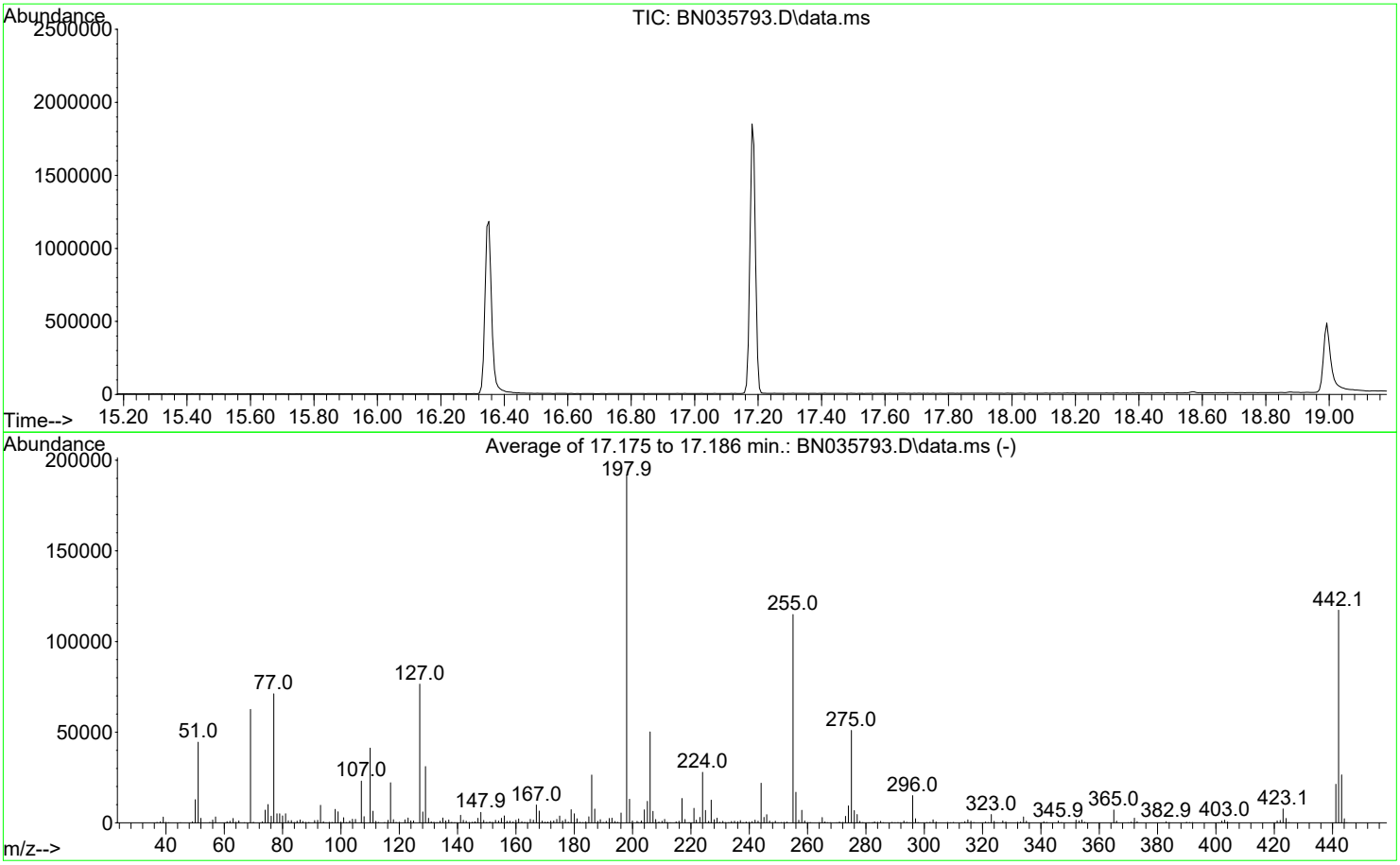
Sample Results: **BN035793.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035793.D
Acq On : 23 Dec 2024 20:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2423

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.2	44520	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	32.6	62576	PASS
70	69	0.00	2	0.6	362	PASS
127	198	10	80	39.9	76520	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	191851	PASS
199	198	5	9	6.8	13033	PASS
275	198	10	60	26.6	50979	PASS
365	198	1	100	3.7	7105	PASS
441	198	0.01	100	11.1	21259	PASS
442	442	50	100	100.0	117307	PASS
443	442	15	24	22.6	26498	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

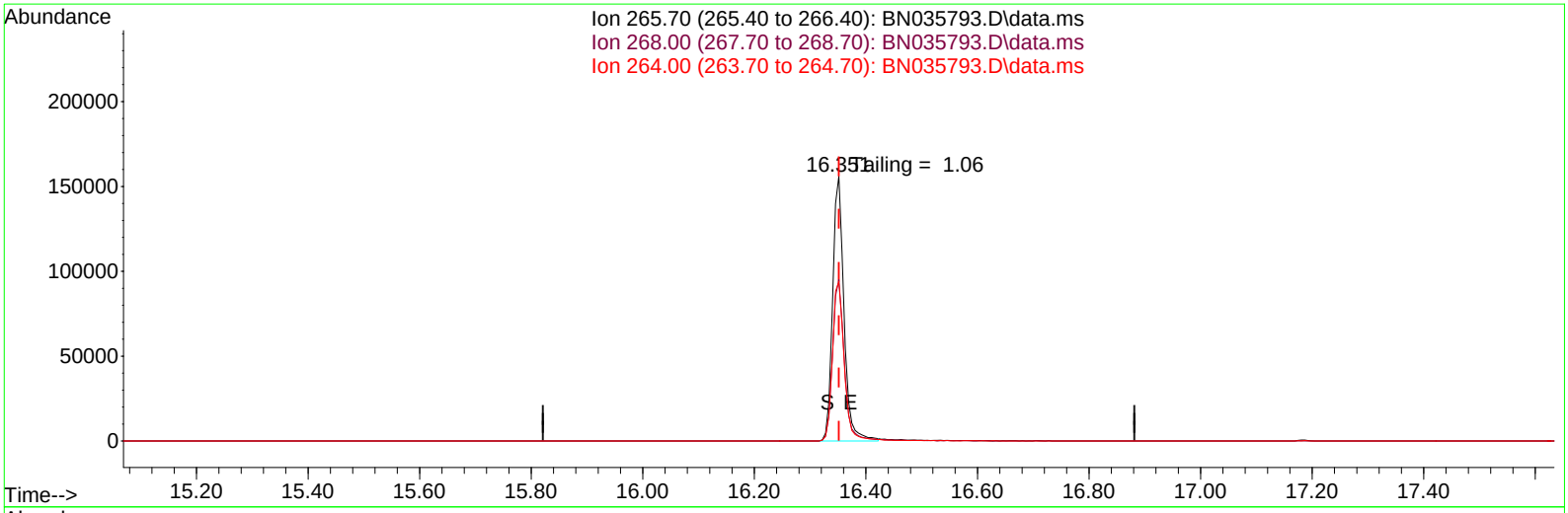
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035793.D
Compound Name	**Response**	**Retention Time**
DDT	527491	20.245
DDD	59938	19.804
DDE	3046	19.286
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
62984	590475	10.67

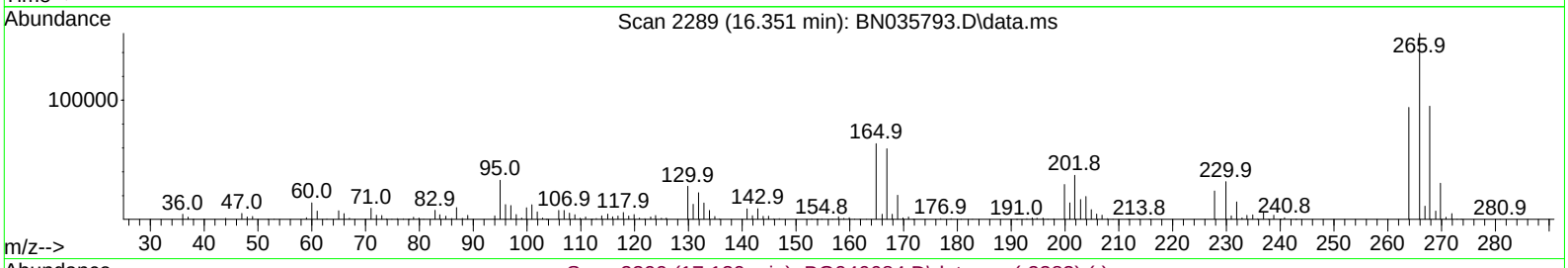
Sample Results: **BN035793.D**

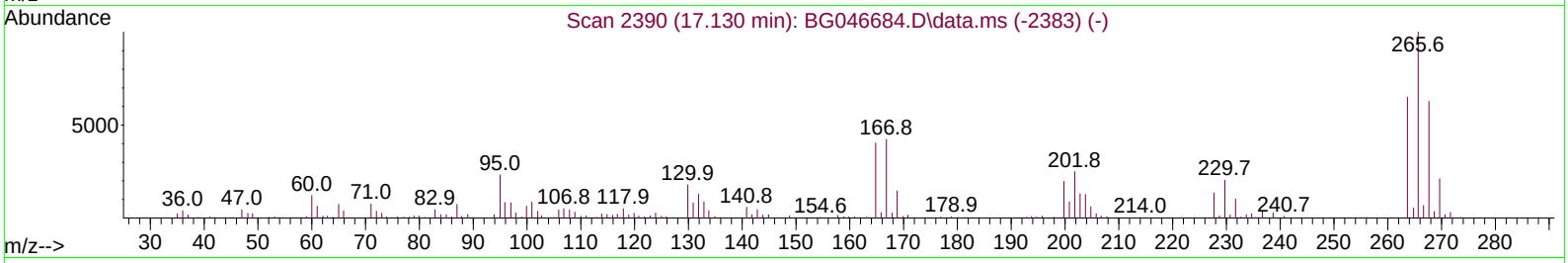
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035793.D
Acq On : 23 Dec 2024 20:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:28:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:28:04 2024
Response via : Initial Calibration







TIC: BN035793.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 22129.06 ng

response 222810

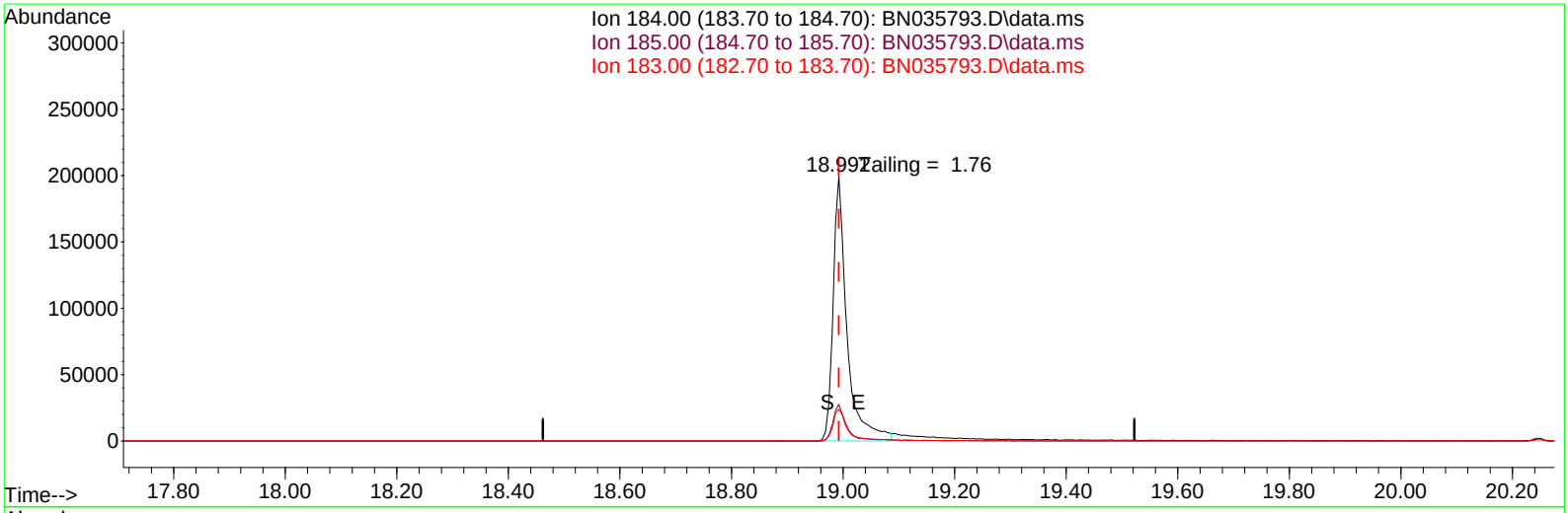
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.87
264.00	61.60	60.23
0.00	0.00	0.00

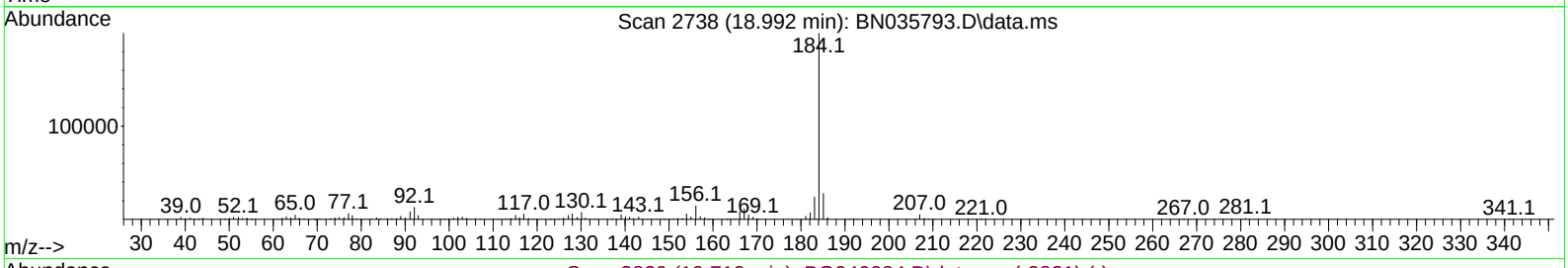
Sample Results: **BN035793.D**

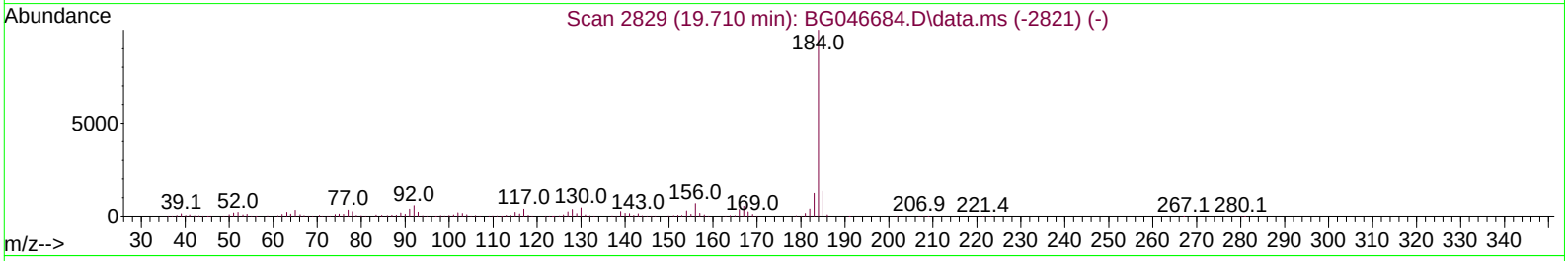
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035793.D
Acq On : 23 Dec 2024 20:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:28:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:28:04 2024
Response via : Initial Calibration







TIC: BN035793.D\data.ms

(77) Benzidine

18.992min (0.000) 0.00 ng

response 368634

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.92
183.00	13.20	12.06
0.00	0.00	0.00

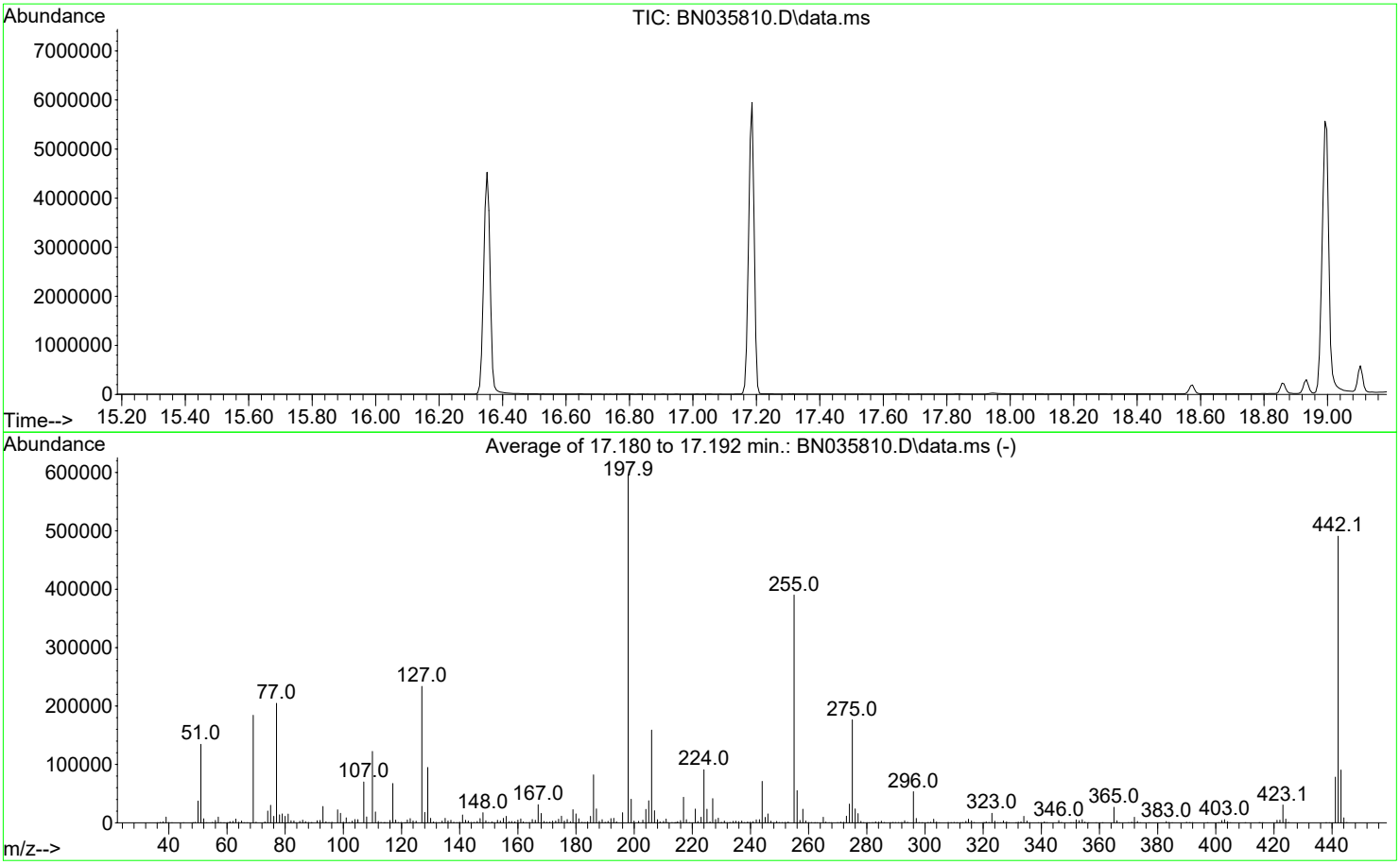
Sample Results: **BN035810.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.6	134565	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.9	184267	PASS
70	69	0.00	2	0.5	1000	PASS
127	198	10	80	39.2	233707	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	595477	PASS
199	198	5	9	6.8	40509	PASS
275	198	10	60	29.6	176405	PASS
365	198	1	100	4.5	26707	PASS
441	198	0.01	100	13.2	78309	PASS
442	442	50	100	100.0	490880	PASS
443	442	15	24	18.4	90491	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

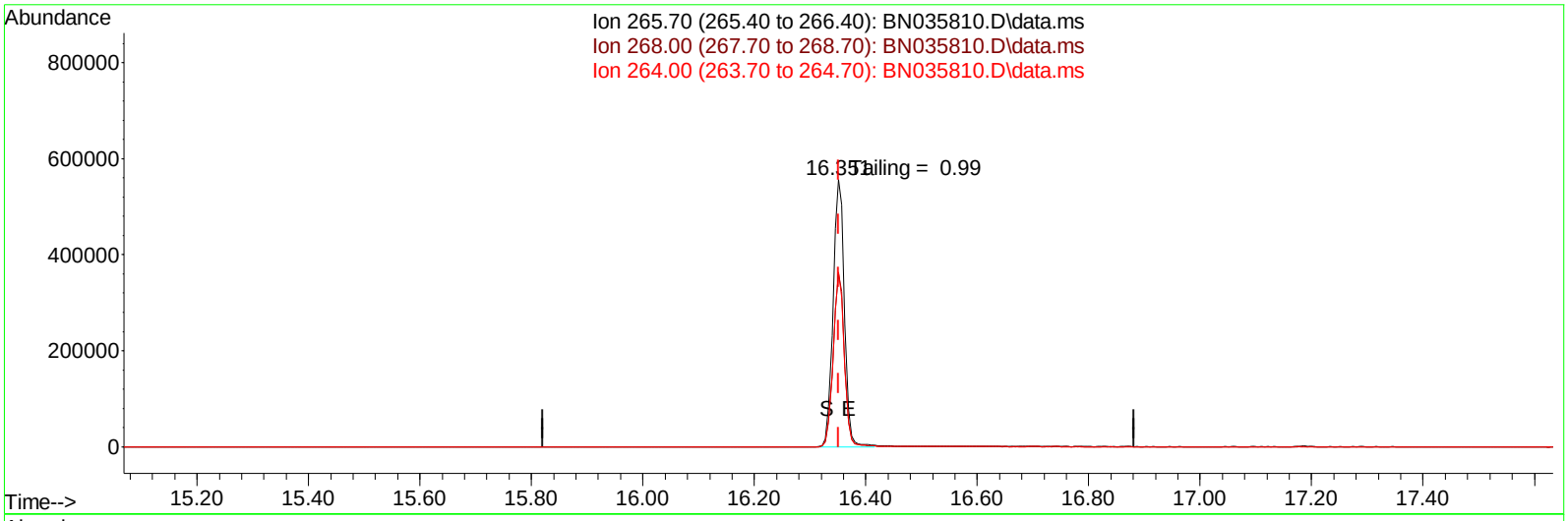
DDT Breakdown

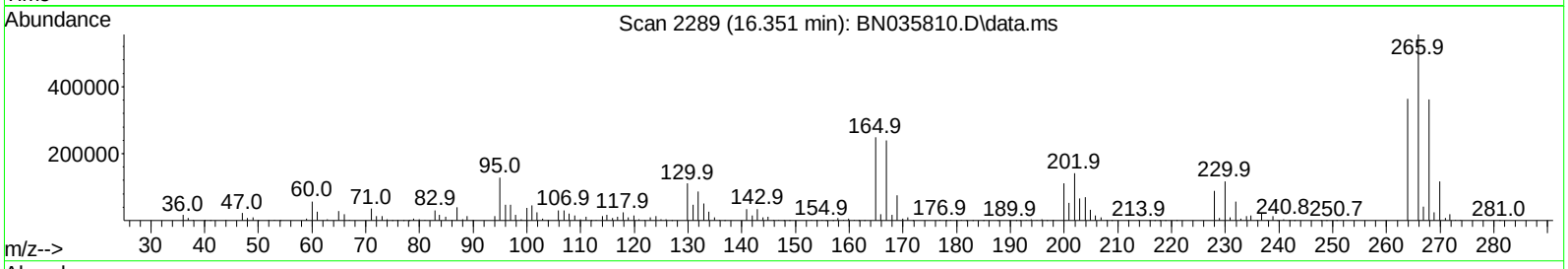
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035810.D
Compound Name	**Response**	**Retention Time**
DDT	1784590	20.251
DDD	187693	19.804
DDE	5273	19.286
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
192966	1977556	9.76

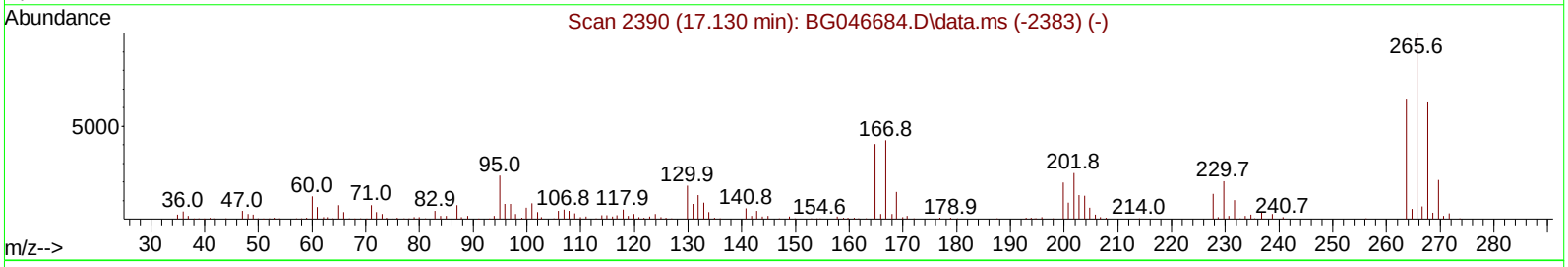
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 00:46:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 00:46:49 2024
Response via : Initial Calibration







TIC: BN035810.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 26136.96 ng

response 791954

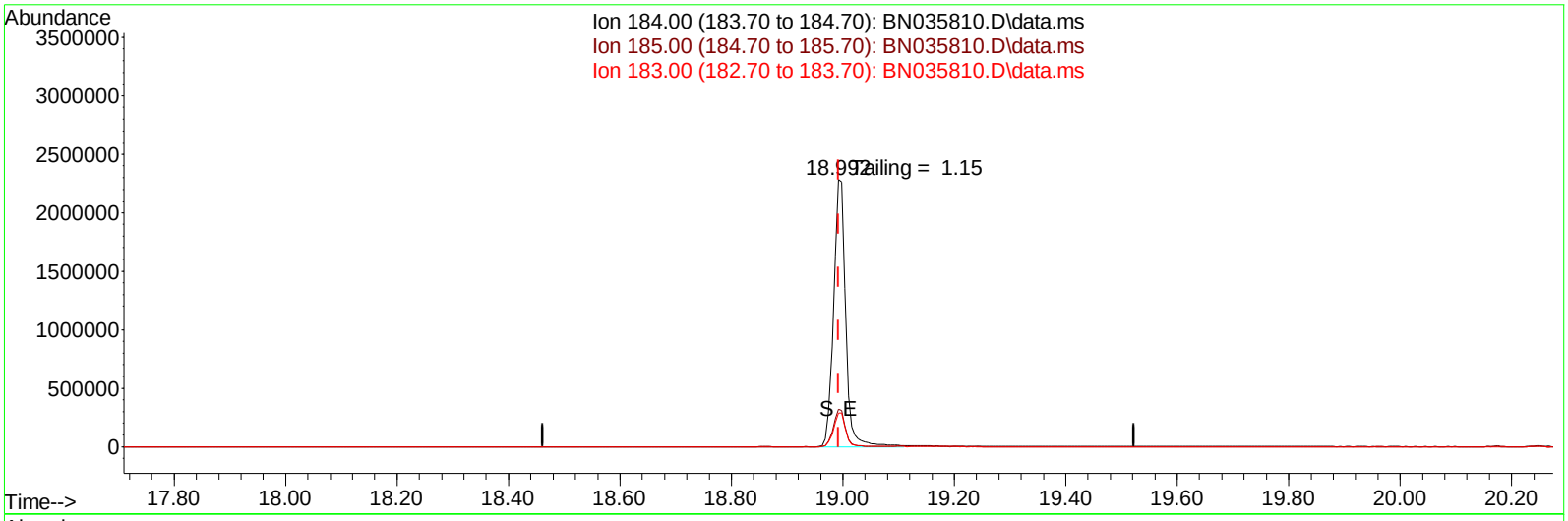
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.05
264.00	61.60	65.35
0.00	0.00	0.00

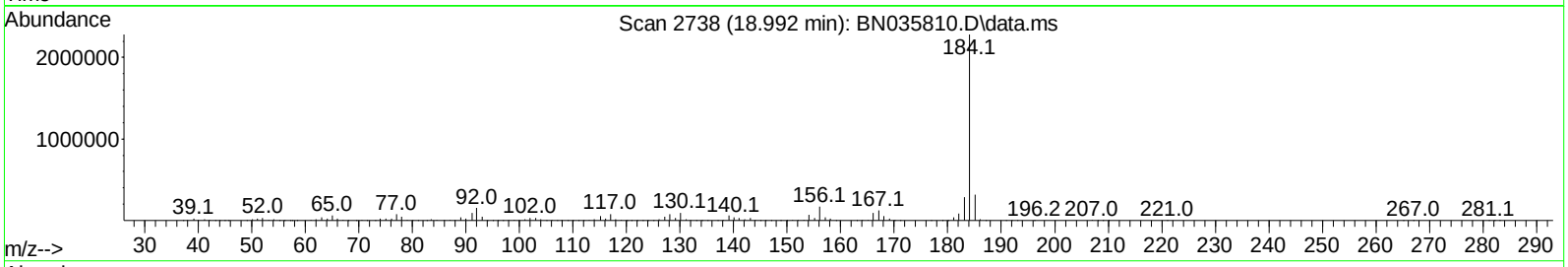
Sample Results: **BN035810.D**

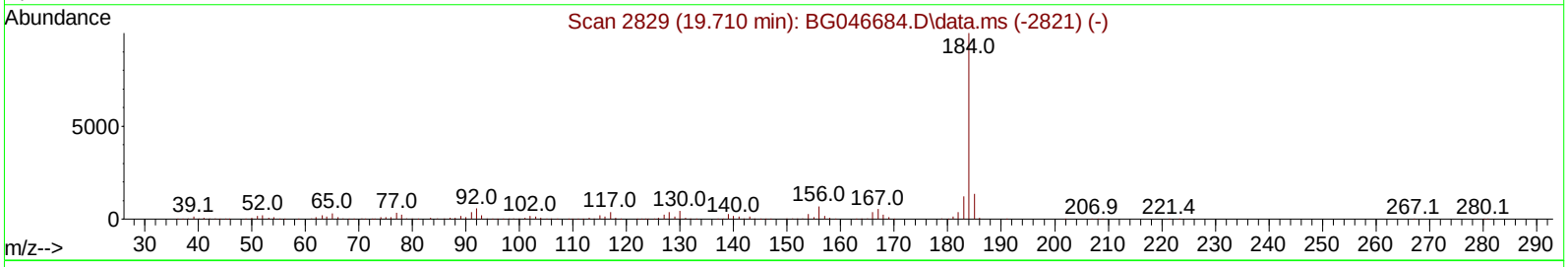
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 00:46:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 00:46:49 2024
Response via : Initial Calibration







TIC: BN035810.D\data.ms

(77) Benzidine

18.992min (0.000) 0.00 ng

response 3507772

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.96
183.00	13.20	12.67
0.00	0.00	0.00

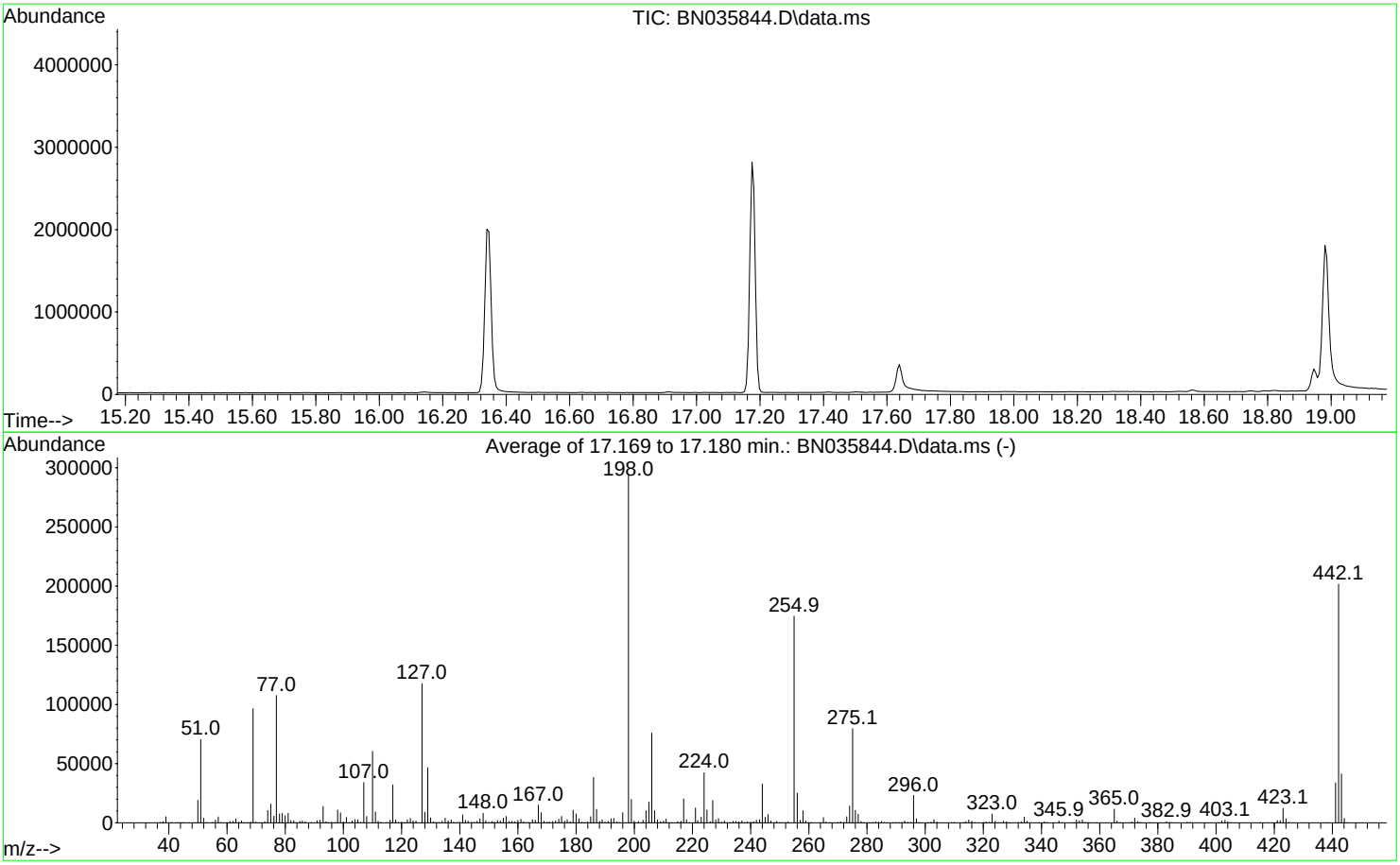
Sample Results: **BN035844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.0	70451	PASS
68	69	0.00	2	0.6	610	PASS
69	198	0.00	100	32.9	96557	PASS
70	69	0.00	2	0.5	480	PASS
127	198	10	80	40.0	117549	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	293824	PASS
199	198	5	9	6.7	19833	PASS
275	198	10	60	27.1	79648	PASS
365	198	1	100	3.9	11517	PASS
441	198	0.01	100	11.5	33733	PASS
442	442	50	100	100.0	201656	PASS
443	442	15	24	20.5	41285	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

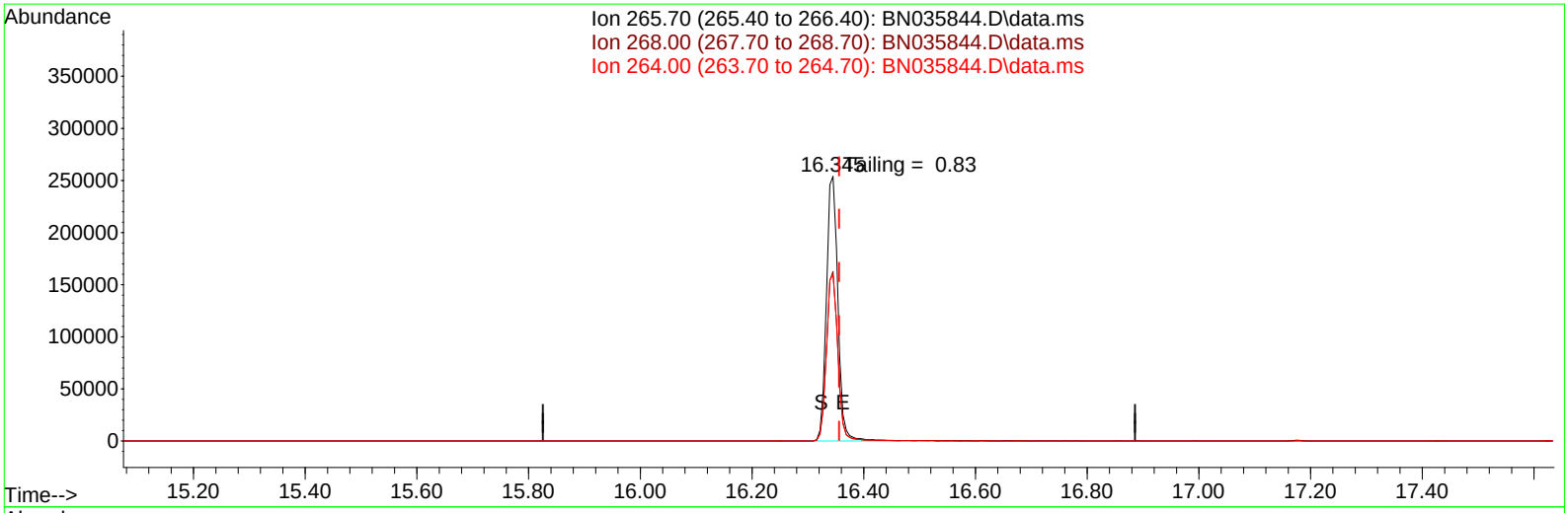
Date	Instrument Name	DFTPP Data File
12/26/2024	BNA_N	BN035844.D
Compound Name	**Response**	**Retention Time**
DDT	999259	20.239
DDD	18711	19.798
DDE	516	19.28
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
19227	1018486	1.89

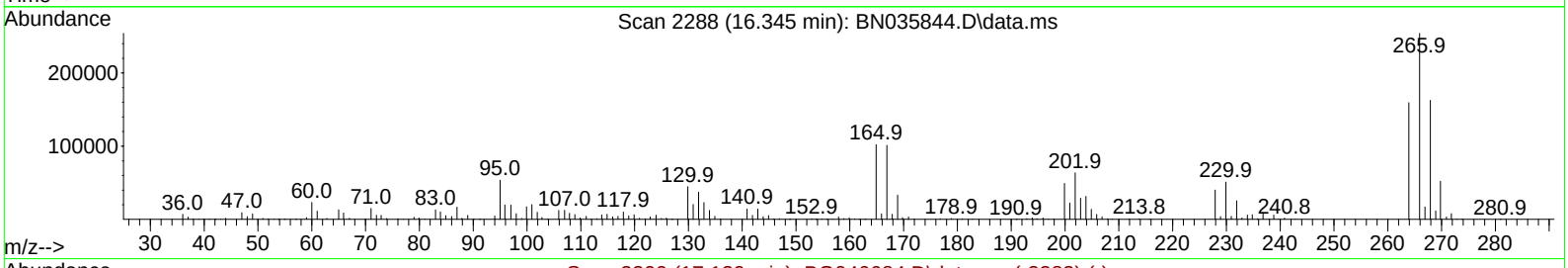
Sample Results: **BN035844.D**

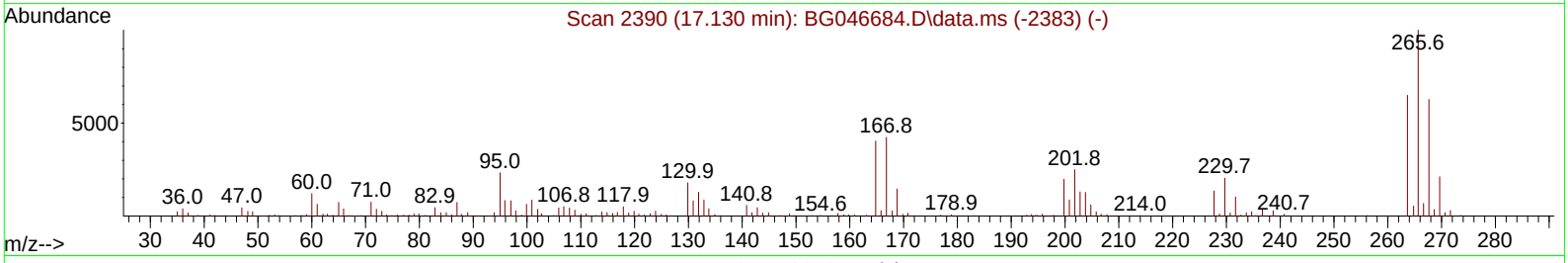
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 26 18:22:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN035844.D\data.ms

(70) Pentachlorophenol (C)

16.345min (-0.011) 24950.02 ng

response 363016

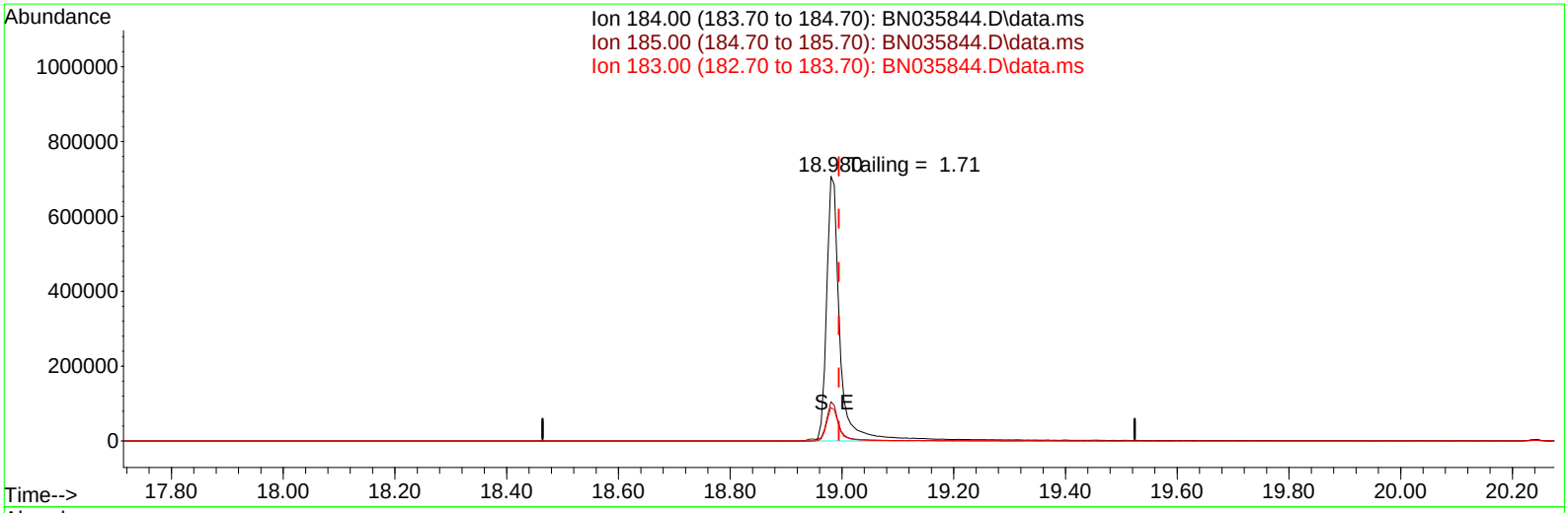
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.03
264.00	61.60	62.72
0.00	0.00	0.00

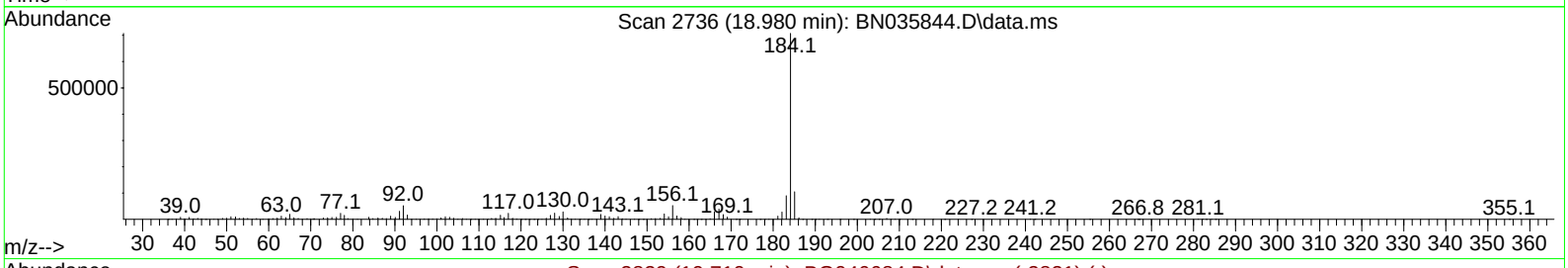
Sample Results: **BN035844.D**

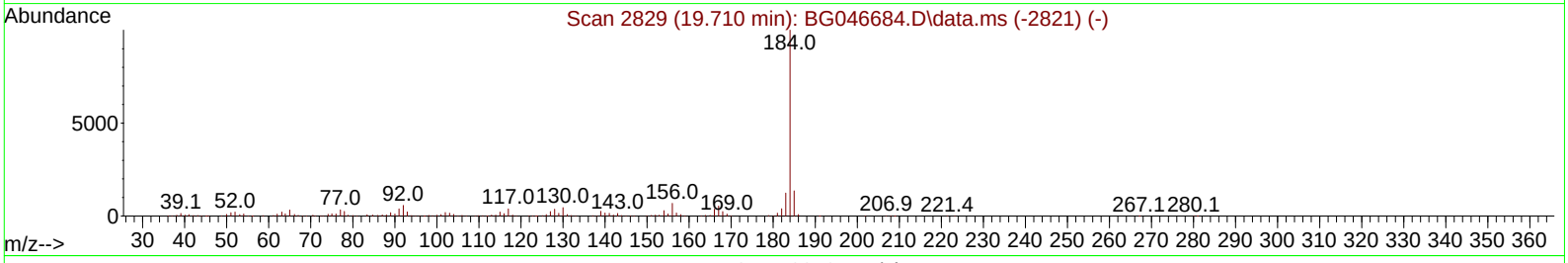
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 26 18:24:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN035844.D\data.ms

(77) Benzidine

18.980min (-0.014) 0.00 ng

response 1183784

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.84
183.00	13.20	12.69
0.00	0.00	0.00

Raw Data: **BN035795.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165667BL	SDG No.:	P5281
Lab Sample ID:	PB165667BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035795.D	1	12/16/24 11:30	12/23/24 22:52	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		140%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4930	7.264				
1146-65-2	Naphthalene-d8	11400	10.009				
15067-26-2	Acenaphthene-d10	7250	13.924				
1517-22-2	Phenanthrene-d10	12600	16.711				
1719-03-5	Chrysene-d12	9940	20.956				
1520-96-3	Perylene-d12	9790	23.038				

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

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

Sample Results: **BN035795.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035795.D
Acq On : 23 Dec 2024 22:52
Operator : RC/JU
Sample : PB165667BL
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4926	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11442	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	7253	0.400	ng	-0.01
19) Phenanthrene-d10	16.711	188	12605	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	9944	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9785	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3783	0.307	ng	0.00
5) Phenol-d6	6.484	99	3587	0.242	ng	0.00
8) Nitrobenzene-d5	8.408	82	2999m	0.429	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	6566	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	426	0.083	ng	0.02
15) 2-Fluorobiphenyl	12.549	172	9720	0.355	ng	0.00
27) Fluoranthene-d10	18.761	212	13649	0.382	ng	0.00
31) Terphenyl-d14	19.388	244	11020	0.562	ng	0.00
Target Compounds						Qvalue

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

Sample Results: **BN035795.D**

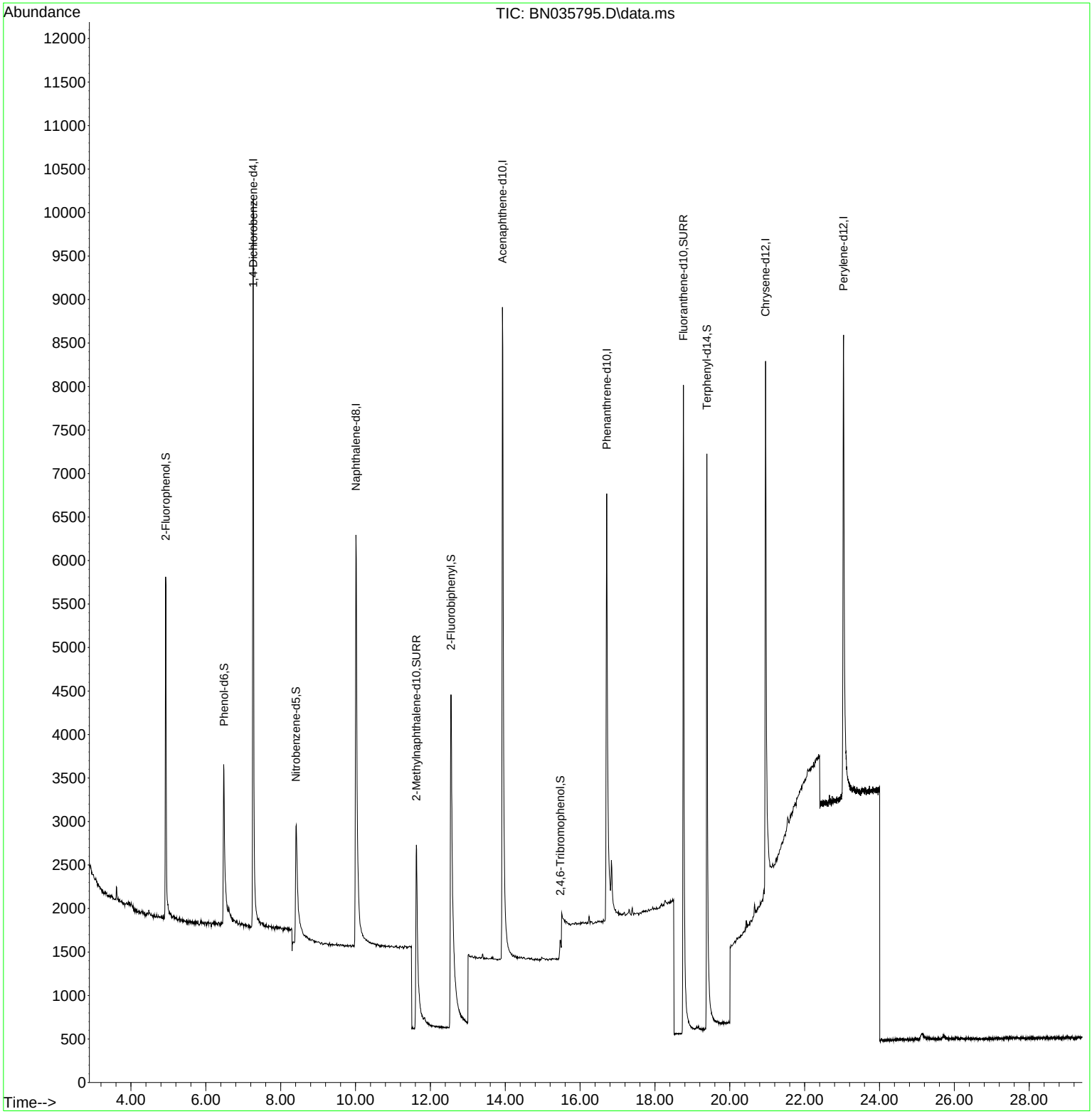
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035795.D
Acq On : 23 Dec 2024 22:52
Operator : RC/JU
Sample : PB165667BL
Misc :
ALS Vial : 77 Sample Multiplier: 1

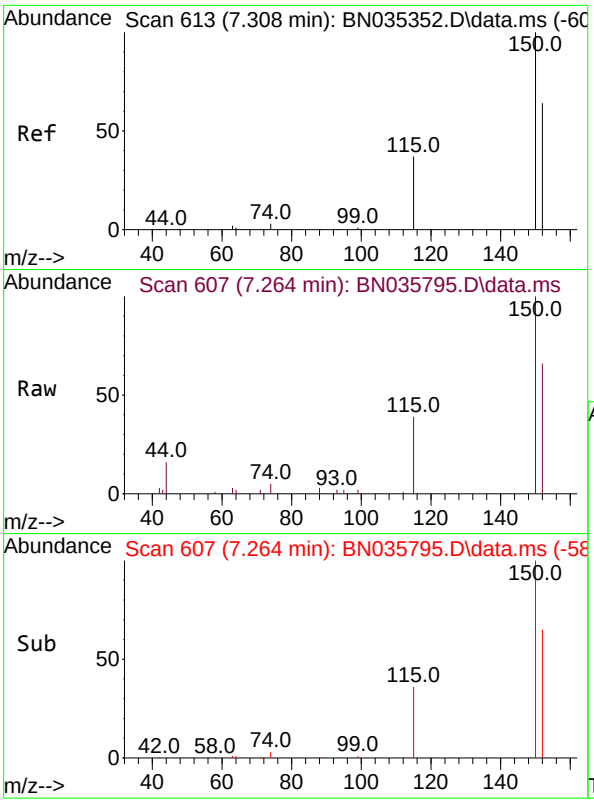
Quant Time: Dec 24 00:13:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

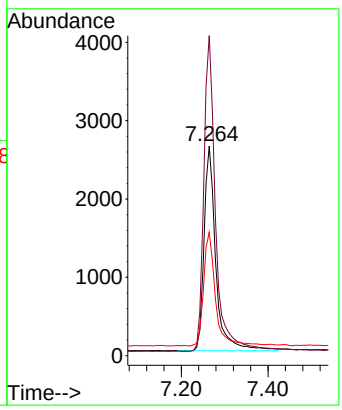




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:152 Resp: 492(

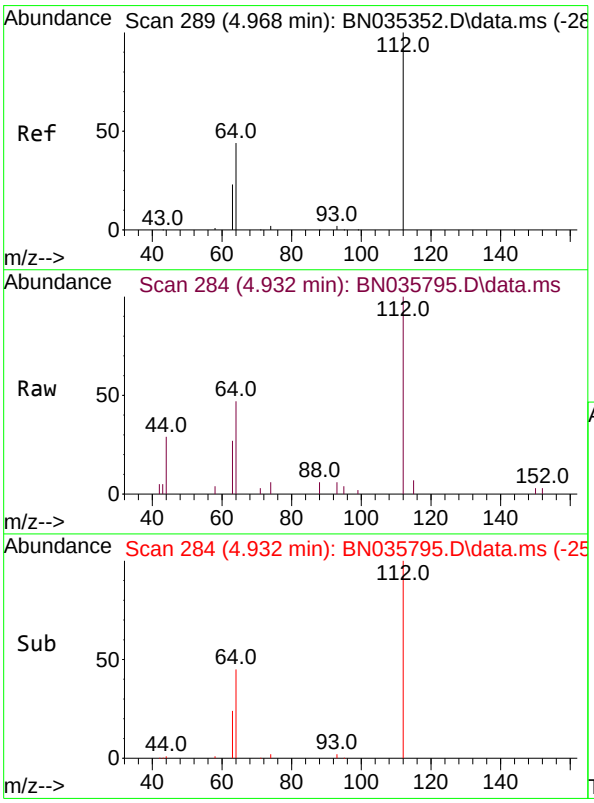
Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

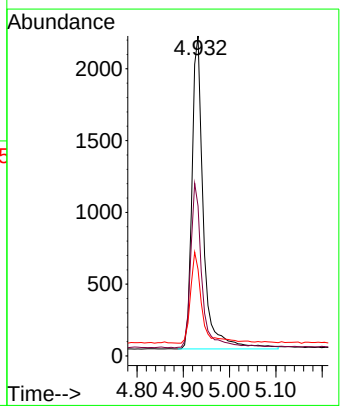
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

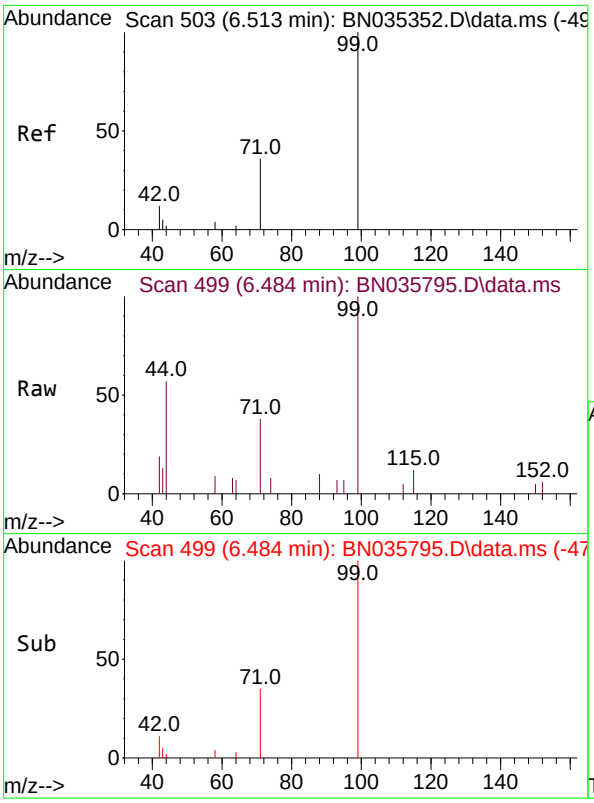


#4
2-Fluorophenol
Concen: 0.307 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:112 Resp: 3783

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	28.0	21.0	31.6

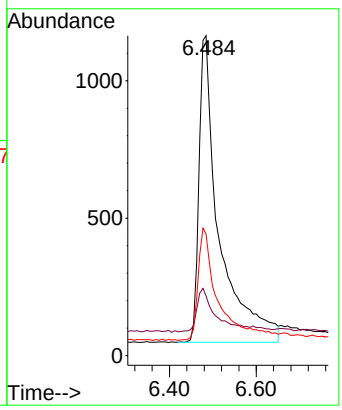




#5
Phenol-d6
Concen: 0.242 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion: 99 Resp: 358

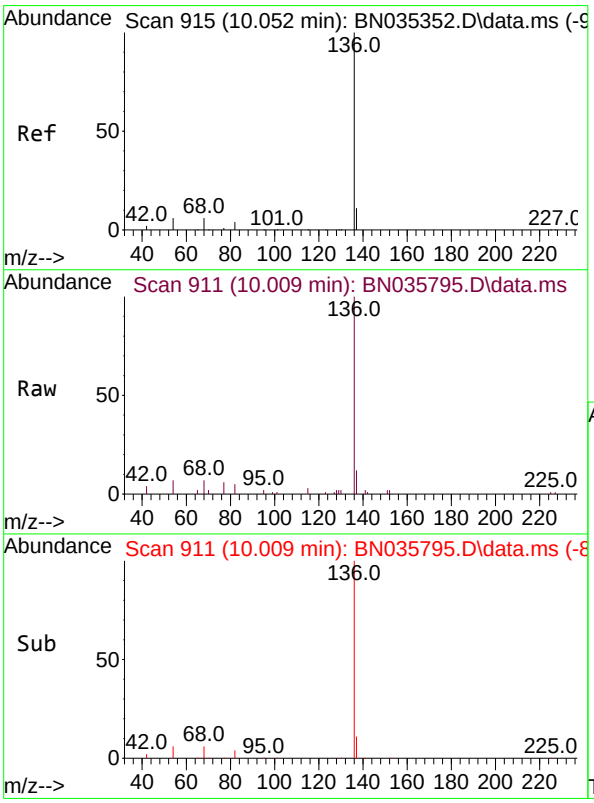
Ion	Ratio	Lower	Upper
99	100		
42	13.1	11.4	17.2
71	37.0	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

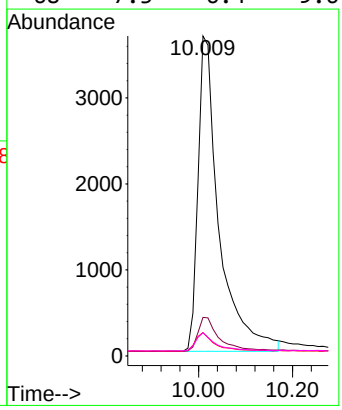
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

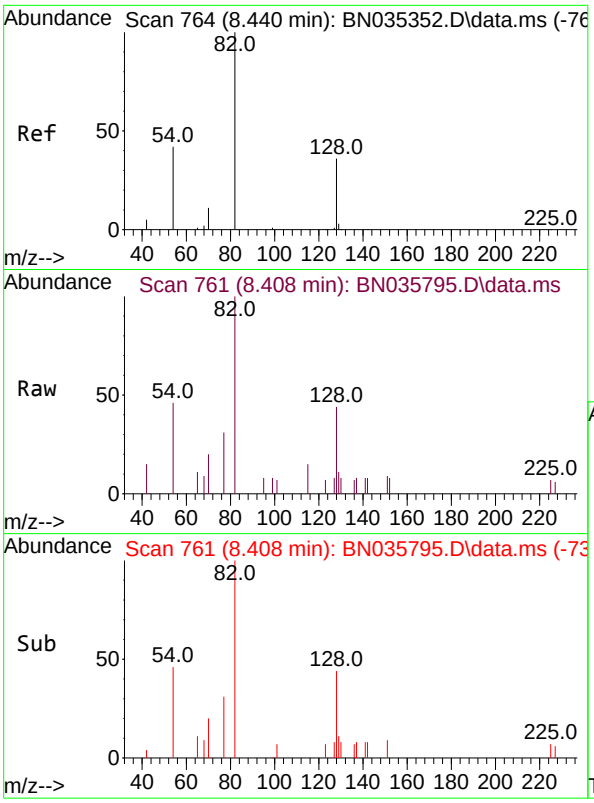


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:136 Resp: 11442

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	7.3	6.1	9.1
68	7.3	6.4	9.6

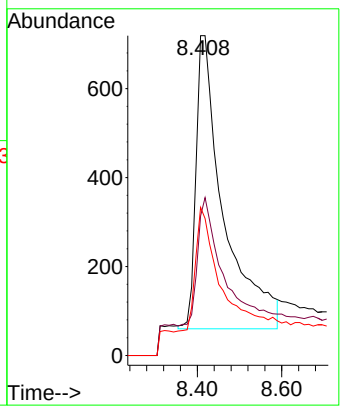




#8
Nitrobenzene-d5
Concen: 0.429 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion: 82 Resp: 299

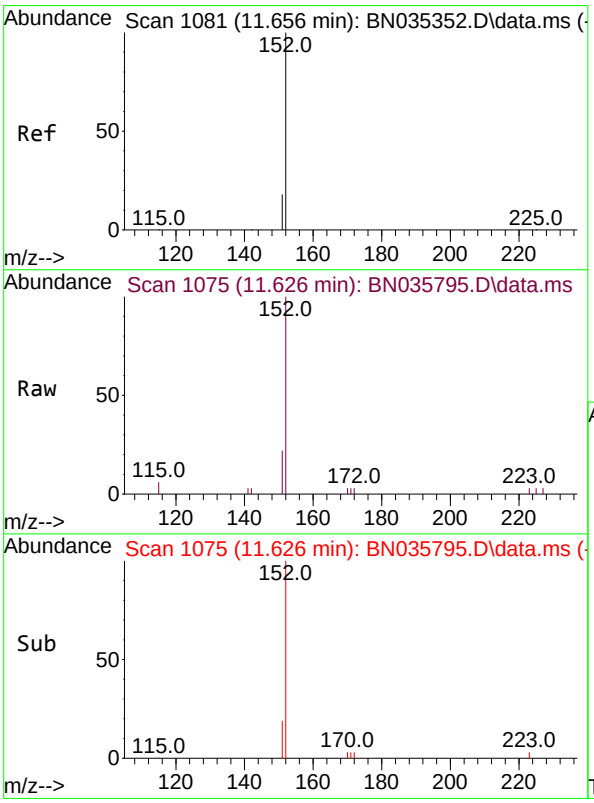
Ion	Ratio	Lower	Upper
82	100		
128	43.7	33.4	50.0
54	46.3	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

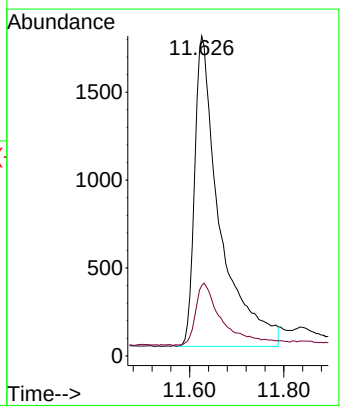
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

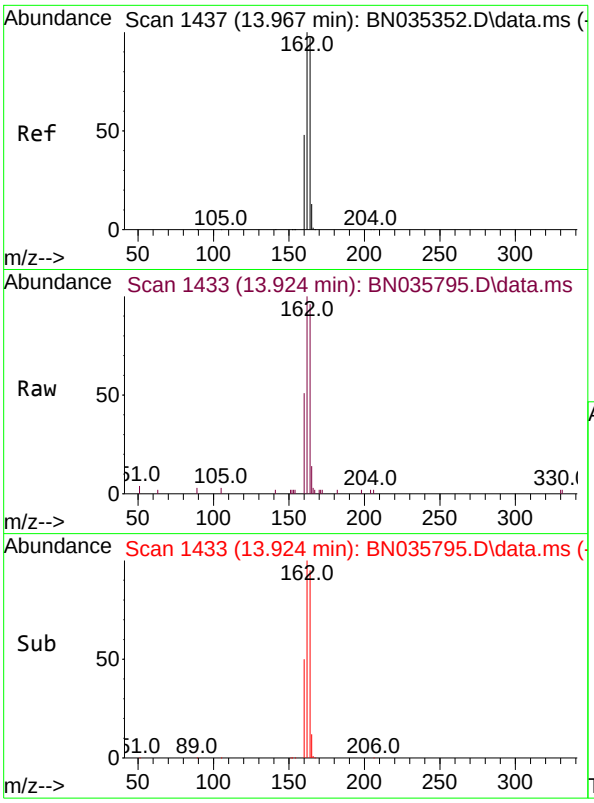


#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.626 min Scan# 1075
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:152 Resp: 6566

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.6	25.0

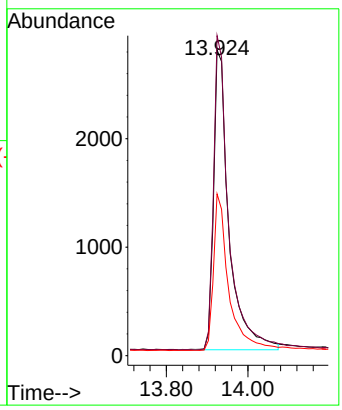




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:164 Resp: 725

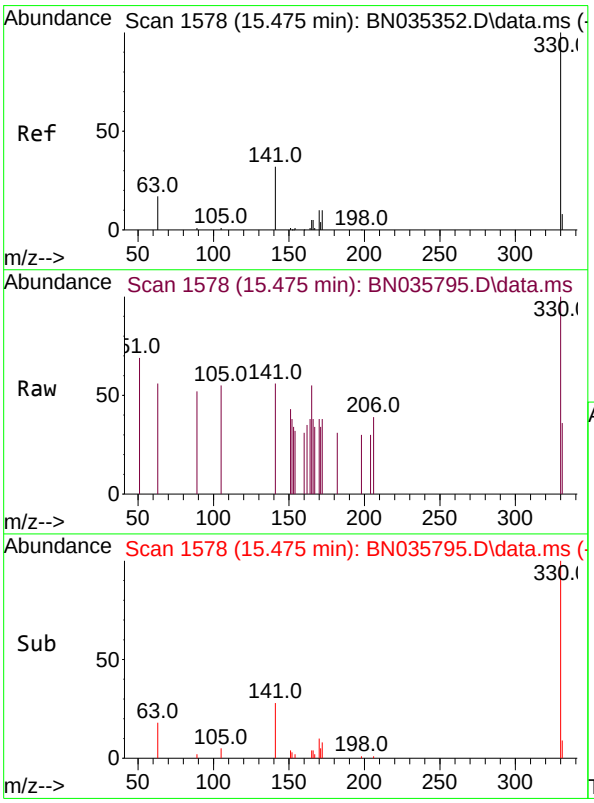
Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.2
160	52.9	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

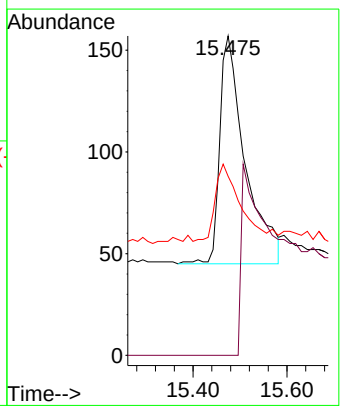
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

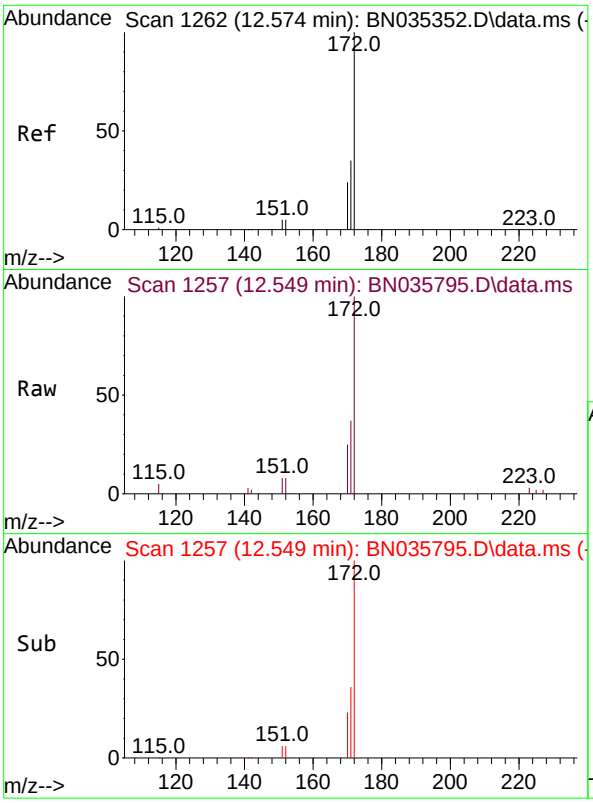


#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:330 Resp: 426

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.6	26.6	40.0

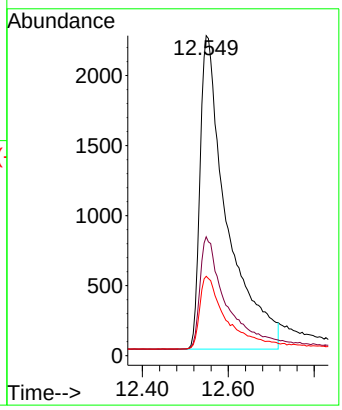




#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.549 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:172 Resp: 972

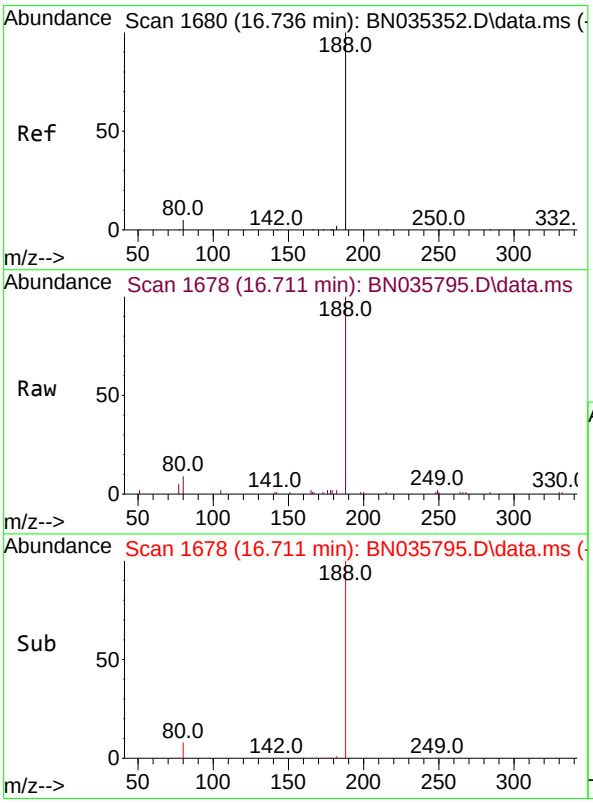
Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

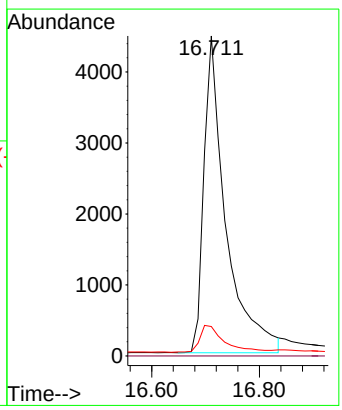
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

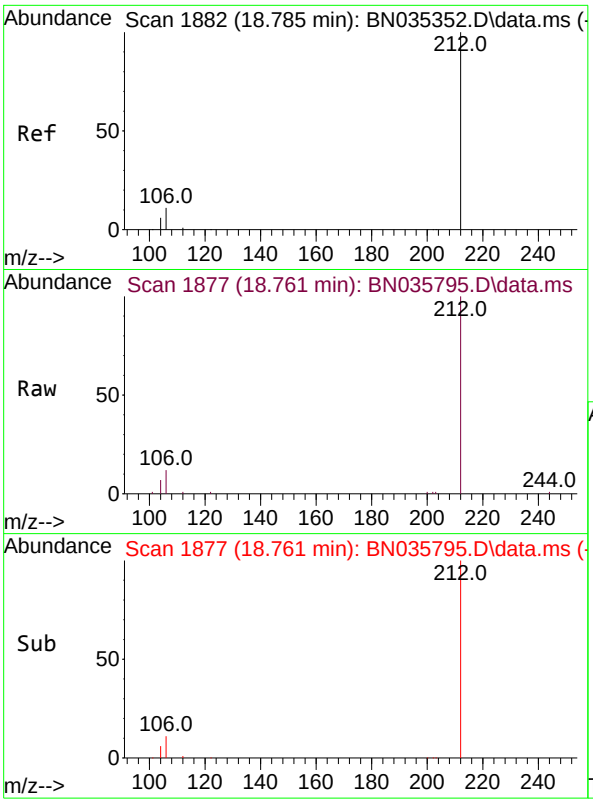


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:188 Resp: 12605

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#

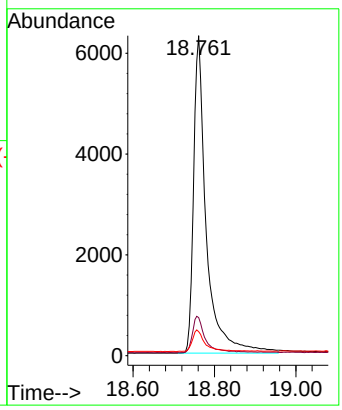




#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:212 Resp: 1364

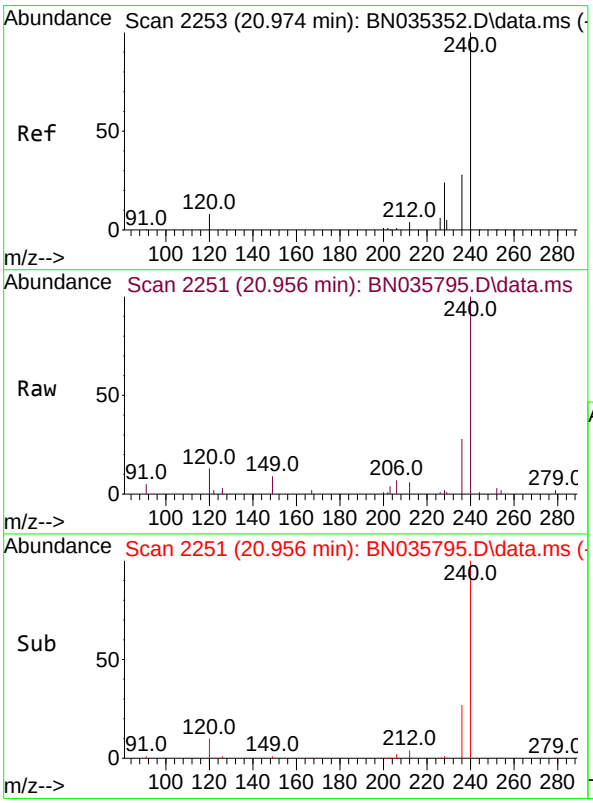
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

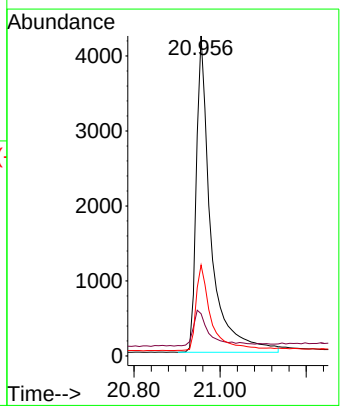
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

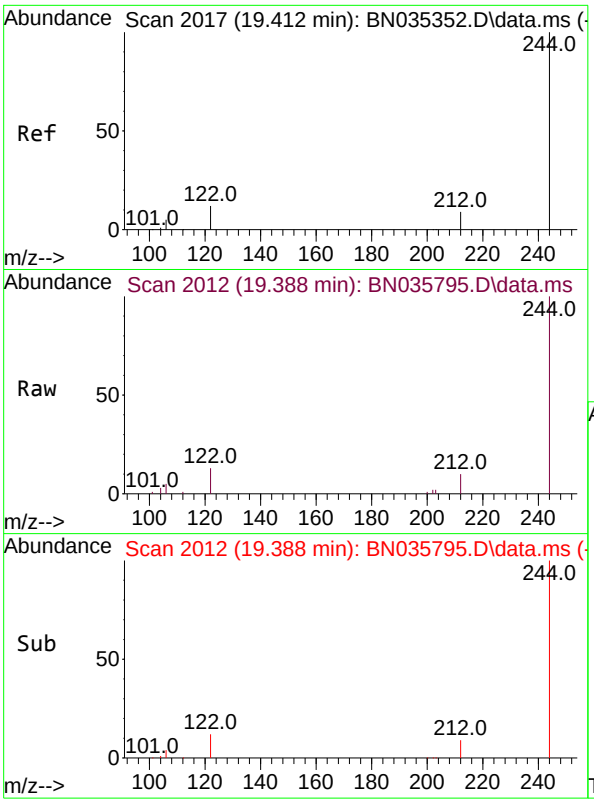


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:240 Resp: 9944

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	28.4	22.9	34.3

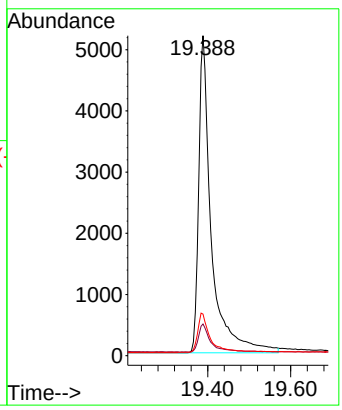




#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:244 Resp: 1102

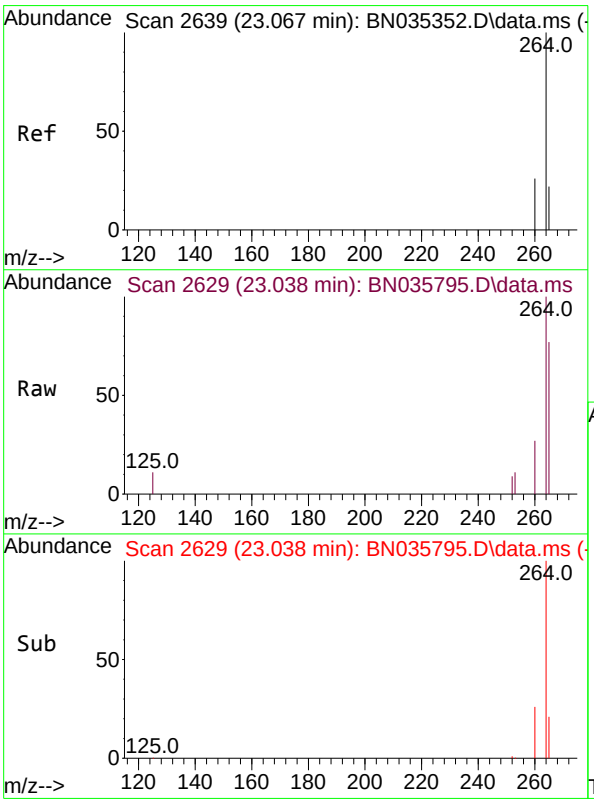
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.0	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

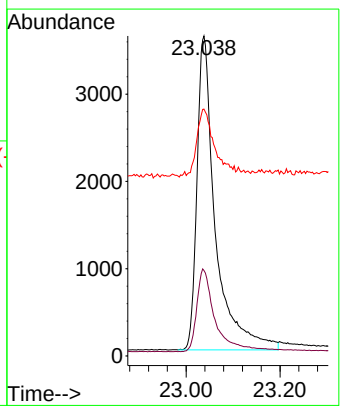
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:264 Resp: 9785

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.2
265	77.1	40.2	60.4#



Raw Data: **BN035808.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165667BS	SDG No.:	P5281
Lab Sample ID:	PB165667BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035808.D	1	12/16/24 11:30	12/24/24 06:34	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		115%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47	*	55 - 111		116%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4070	7.264				
1146-65-2	Naphthalene-d8	9750	10.009				
15067-26-2	Acenaphthene-d10	5530	13.914				
1517-22-2	Phenanthrene-d10	10900	16.698				
1719-03-5	Chrysene-d12	9470	20.947				
1520-96-3	Perylene-d12	9440	23.032				

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

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

Sample Results: **BN035808.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035808.D
Acq On : 24 Dec 2024 06:34
Operator : RC/JU
Sample : PB165667BS
Misc :
ALS Vial : 92 Sample Multiplier: 1

Quant Time: Dec 24 07:07:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4067	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9754	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	5527	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10920	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9467	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	9435	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3134	0.308	ng	0.00
5) Phenol-d6	6.477	99	3400	0.278	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2771m	0.465	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	7007	0.459	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	647	0.165	ng	0.00
15) 2-Fluorobiphenyl	12.528	172	8330	0.399	ng	-0.02
27) Fluoranthene-d10	18.752	212	11348	0.367	ng	0.00
31) Terphenyl-d14	19.384	244	8056	0.431	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1441	0.371	ng	# 72
3) n-Nitrosodimethylamine	3.271	42	1276	0.394	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	3429	0.333	ng	99
9) Naphthalene	10.052	128	9192	0.357	ng	100
10) Hexachlorobutadiene	10.340	225	2323	0.391	ng	# 99
12) 2-Methylnaphthalene	11.687	142	5969	0.324	ng	98
16) Acenaphthylene	13.636	152	8595	0.370	ng	99
17) Acenaphthene	13.978	154	5618	0.365	ng	99
18) Fluorene	14.994	166	7068	0.320	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	260	0.242	ng	# 30
21) 4-Bromophenyl-phenylether	15.904	248	2229	0.349	ng	# 91
22) Hexachlorobenzene	16.003	284	3165	0.422	ng	98
23) Atrazine	16.202	200	1619	0.356	ng	96
24) Pentachlorophenol	16.363	266	1112	0.341	ng	# 84
25) Phenanthrene	16.736	178	10790	0.360	ng	99
26) Anthracene	16.835	178	9628	0.355	ng	99
28) Fluoranthene	18.785	202	12957	0.320	ng	100
30) Pyrene	19.152	202	13632	0.390	ng	99
32) Benzo(a)anthracene	20.929	228	10627	0.321	ng	99
33) Chrysene	20.983	228	14185	0.415	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4640	0.355	ng	100
36) Indeno(1,2,3-cd)pyrene	25.053	276	13497	0.366	ng	98
37) Benzo(b)fluoranthene	22.421	252	22672	0.657	ng	96
38) Benzo(k)fluoranthene	22.462	252	14330	0.422	ng	97
39) Benzo(a)pyrene	22.942	252	11221	0.395	ng	# 92
40) Dibenzo(a,h)anthracene	25.076	278	9782	0.336	ng	93
41) Benzo(g,h,i)perylene	25.664	276	11572	0.380	ng	99

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

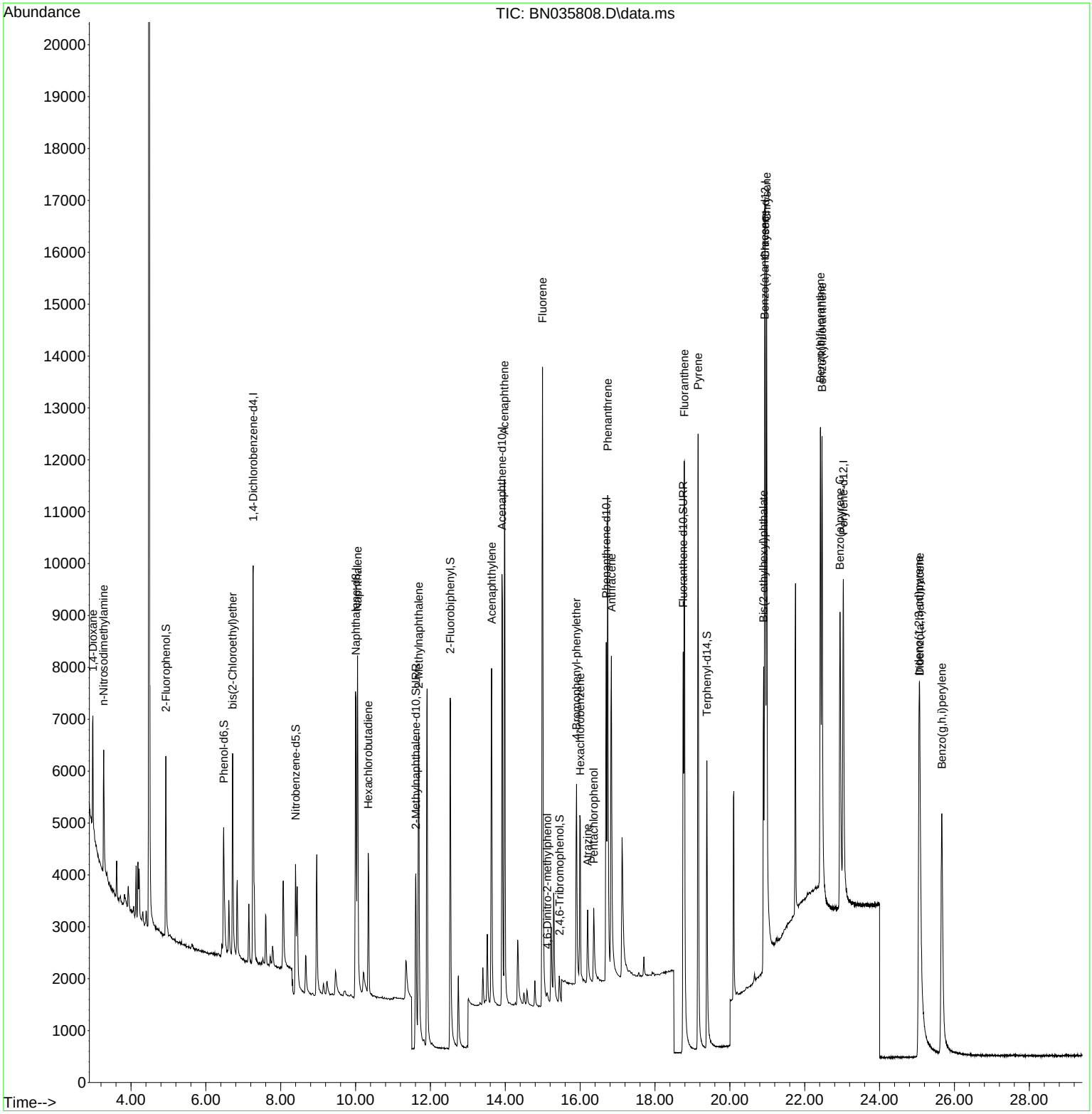
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035808.D
Acq On : 24 Dec 2024 06:34
Operator : RC/JU
Sample : PB165667BS
Misc :
ALS Vial : 92 Sample Multiplier: 1

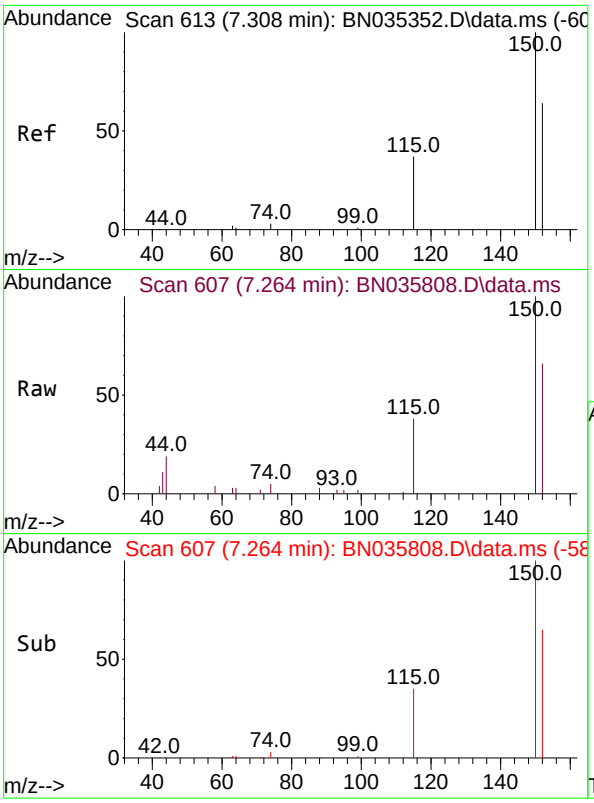
Quant Time: Dec 24 07:07:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

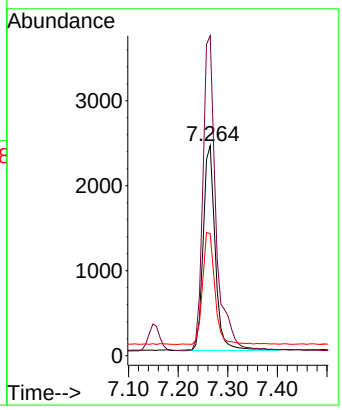




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:152 Resp: 406

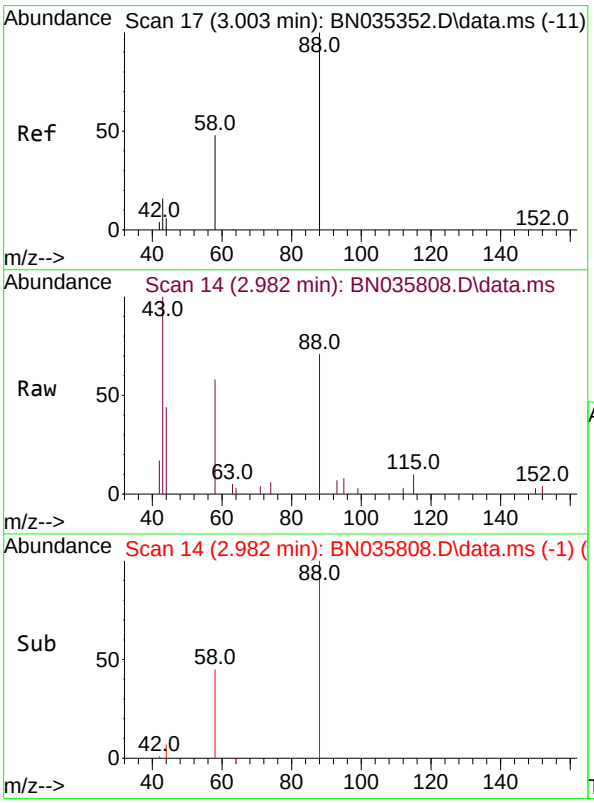
Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.0	186.0
115	58.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

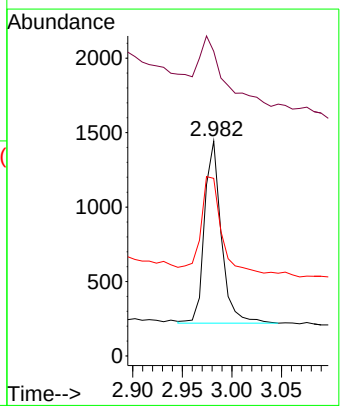
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

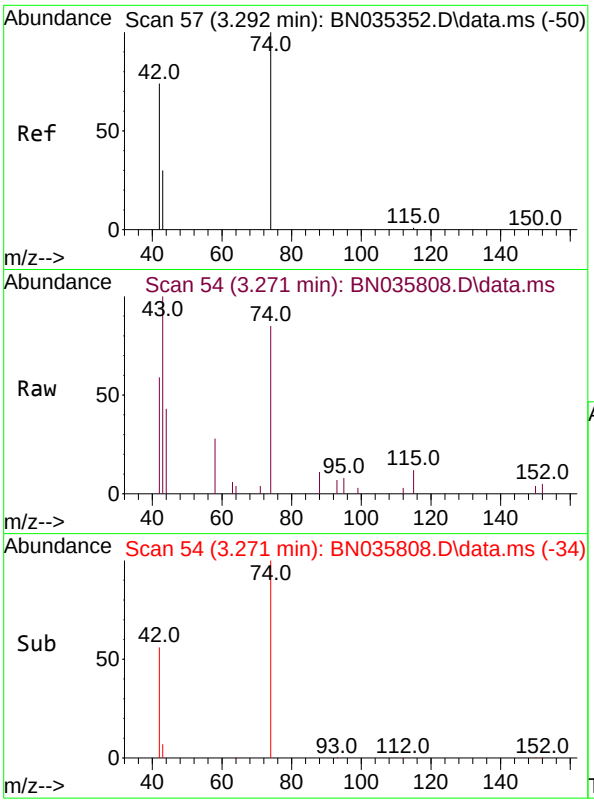


#2
1,4-Dioxane
Concen: 0.371 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 88 Resp: 1441

Ion	Ratio	Lower	Upper
88	100		
43	55.2	17.2	25.8#
58	64.2	44.5	66.7





#3
n-Nitrosodimethylamine
Concen: 0.394 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

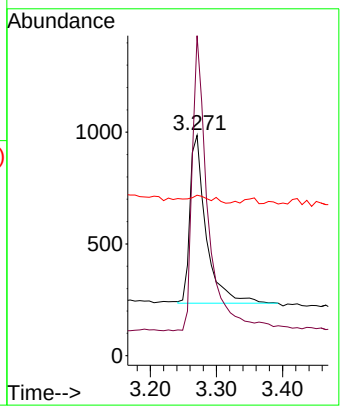
Tgt Ion: 42 Resp: 127

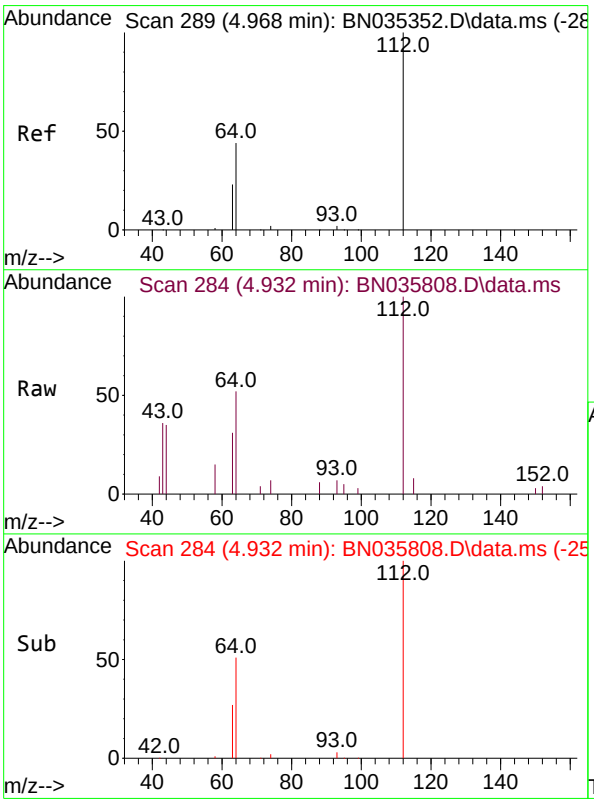
Ion	Ratio	Lower	Upper
42	100		
74	171.2	124.9	187.3
44	6.1	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

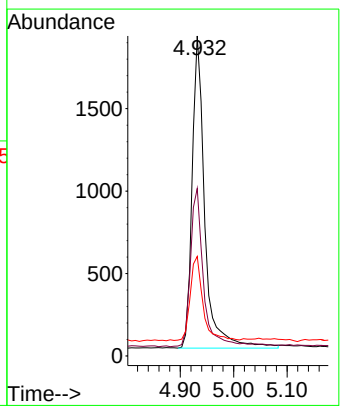


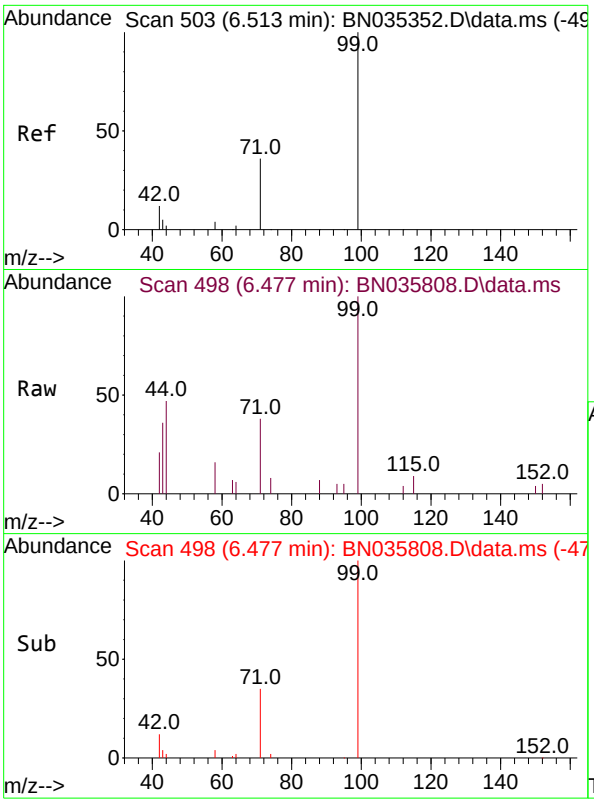


#4
2-Fluorophenol
Concen: 0.308 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:112 Resp: 3134

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.8
63	27.3	21.0	31.6





#5
Phenol-d6
Concen: 0.278 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

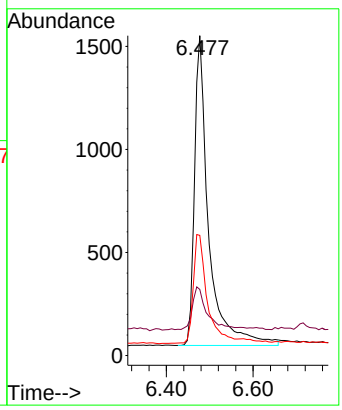
Tgt Ion: 99 Resp: 340

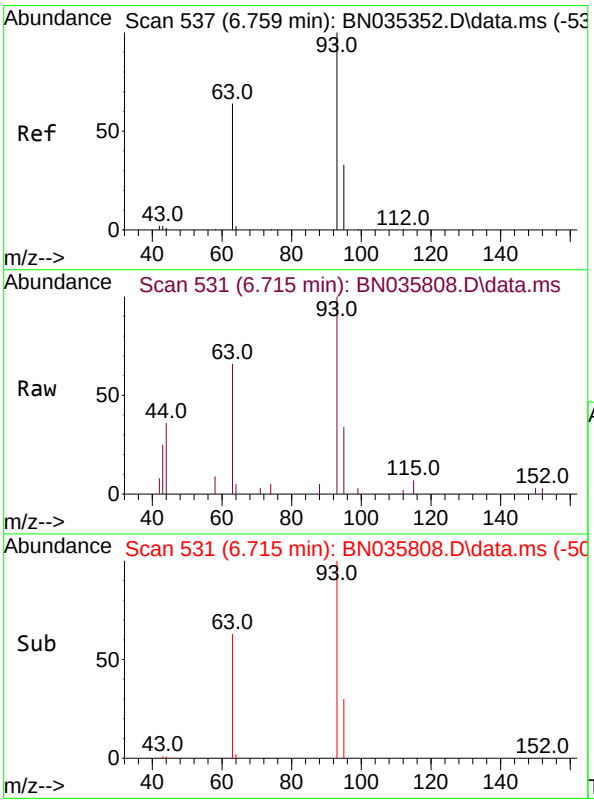
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	34.8	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

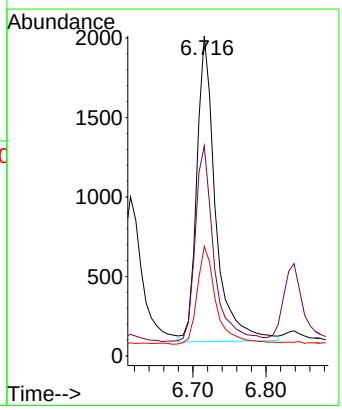


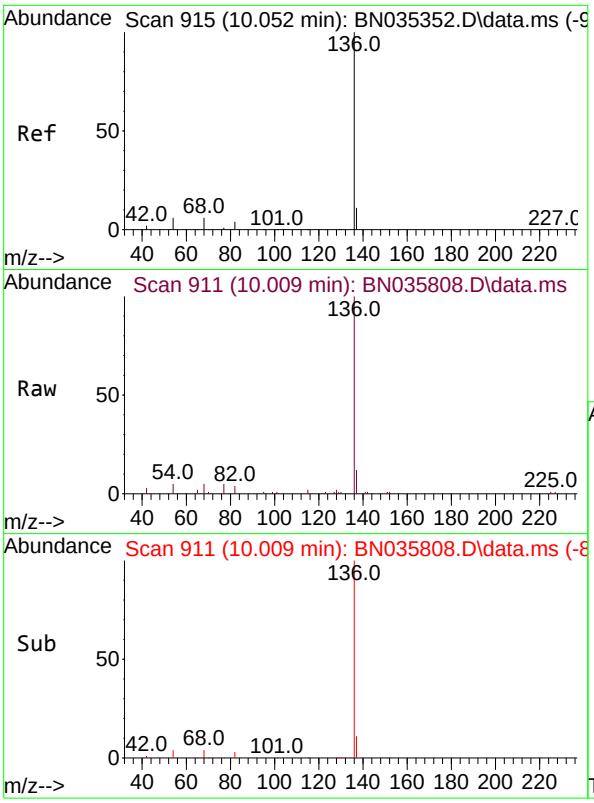


#6
bis(2-Chloroethyl)ether
Concen: 0.333 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 93 Resp: 3429

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	32.7	25.7	38.5

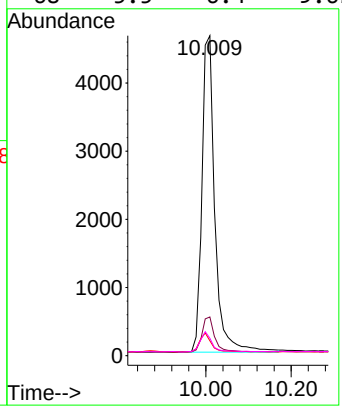




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:136 Resp: 975

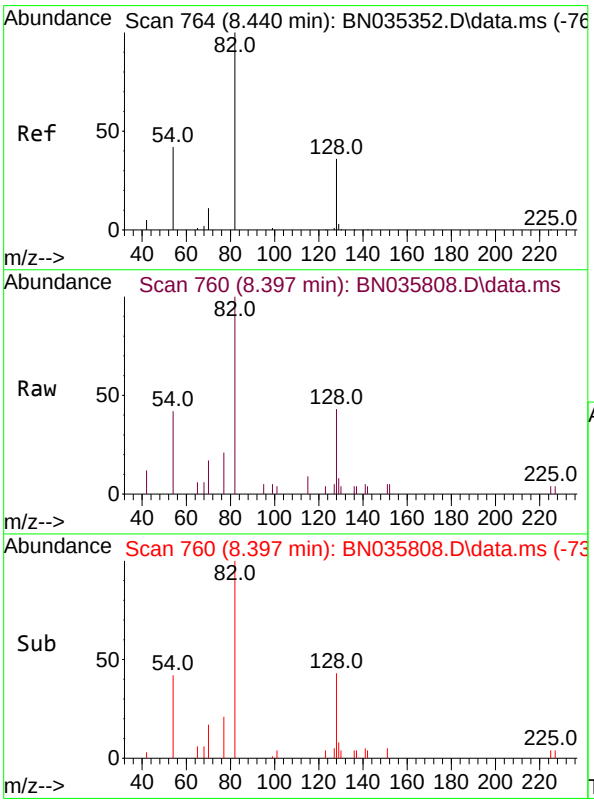
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.5	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

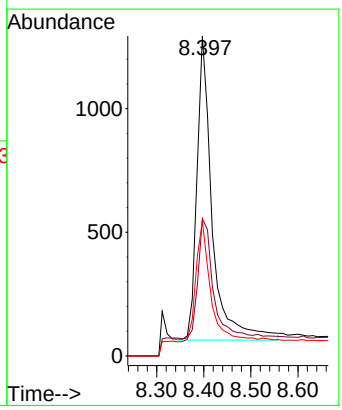
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

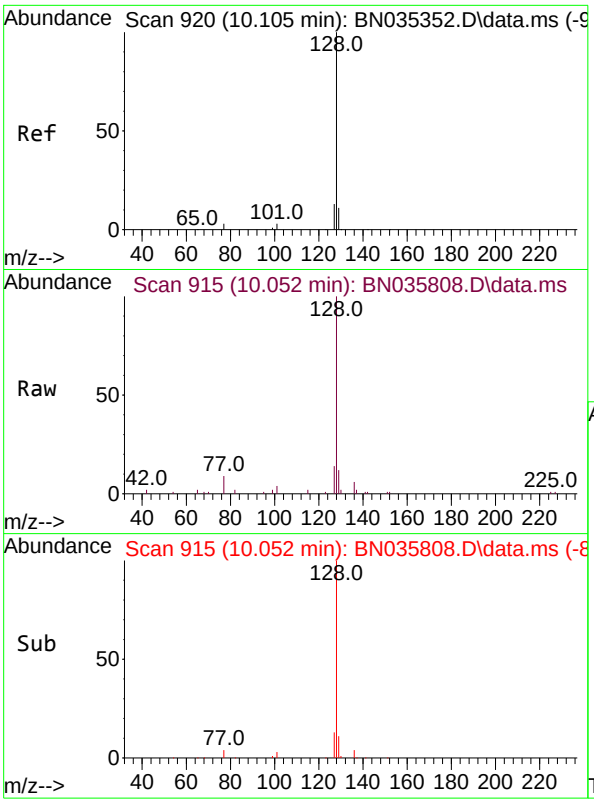


#8
Nitrobenzene-d5
Concen: 0.465 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 82 Resp: 2771

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.4	50.0
54	42.2	36.7	55.1

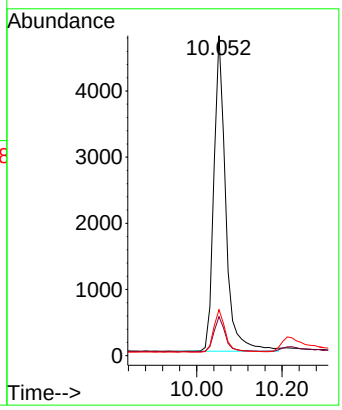




#9
Naphthalene
Concen: 0.357 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:128 Resp: 919

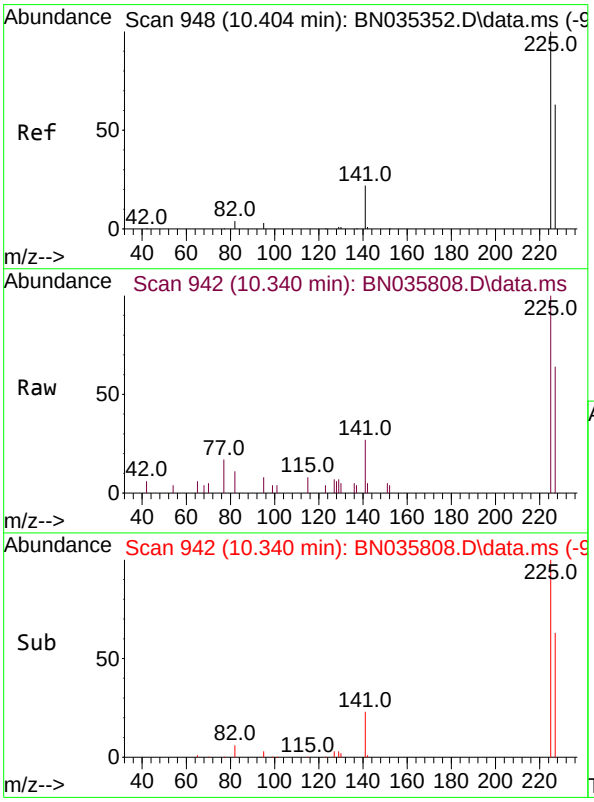
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.4	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

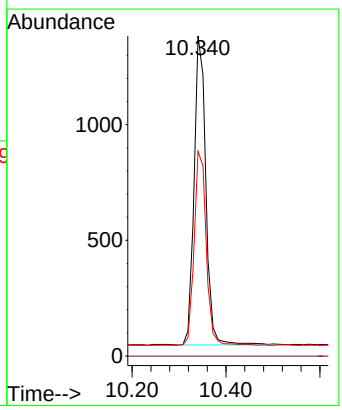
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

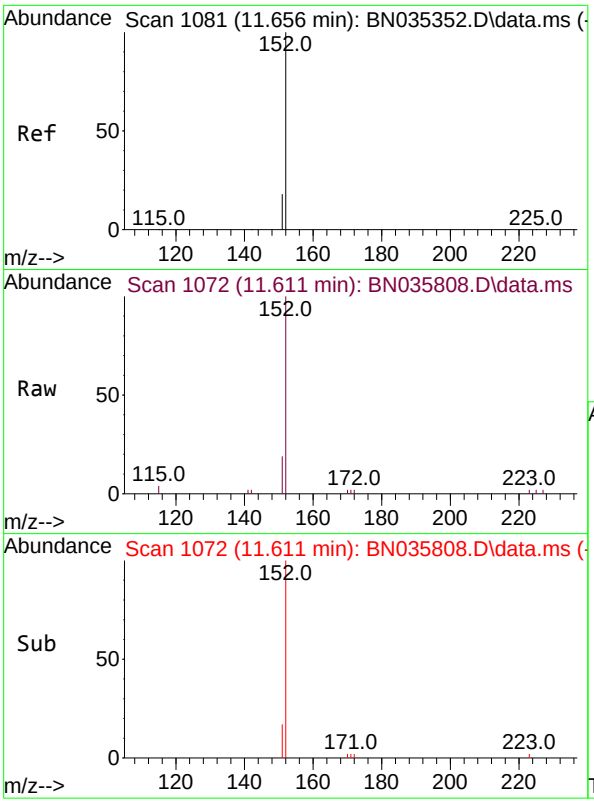


#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:225 Resp: 2323

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.459 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

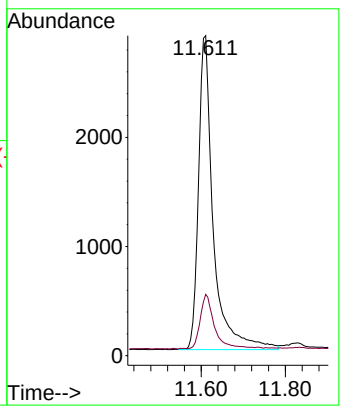
Tgt Ion:152 Resp: 700

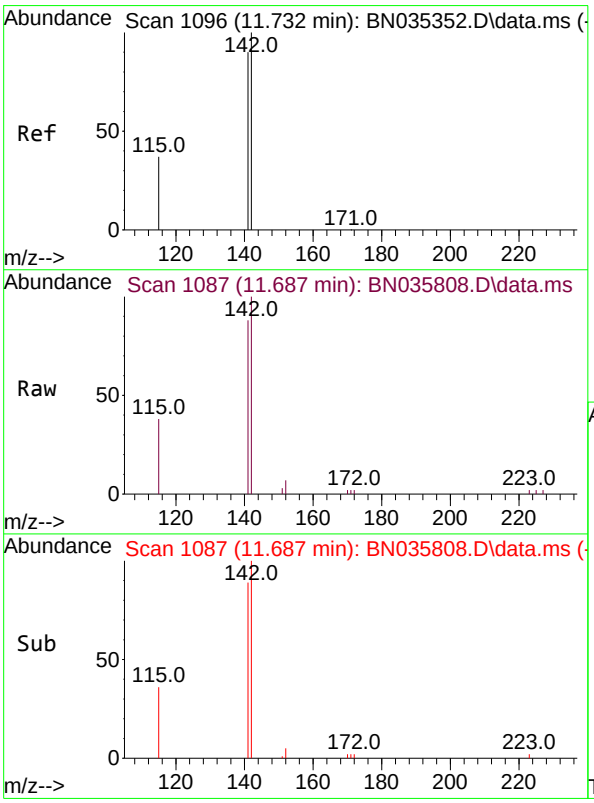
Ion	Ratio	Lower	Upper
152	100		
151	16.5	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

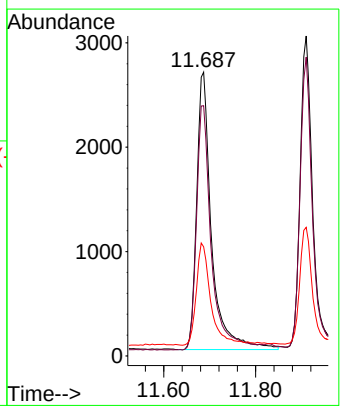


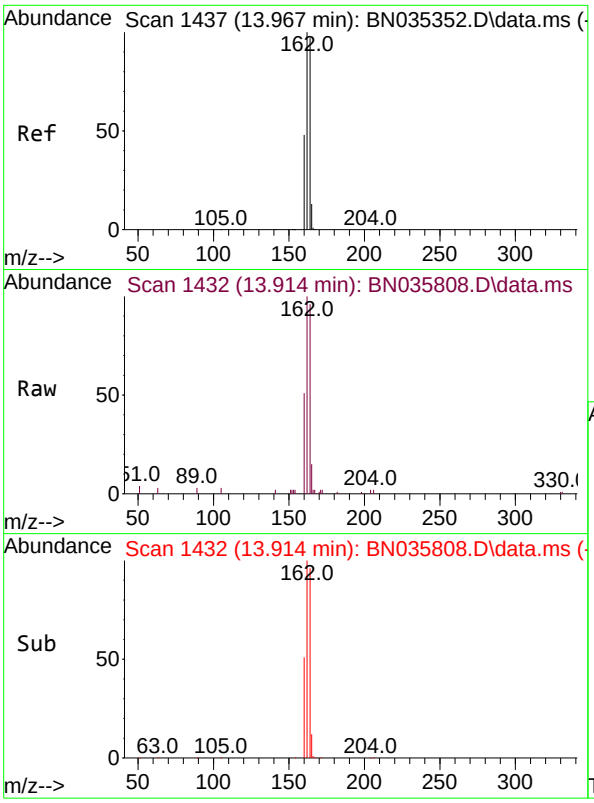


#12
2-Methylnaphthalene
Concen: 0.324 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:142 Resp: 5969

Ion	Ratio	Lower	Upper
142	100		
141	88.2	72.2	108.4
115	38.4	31.4	47.0

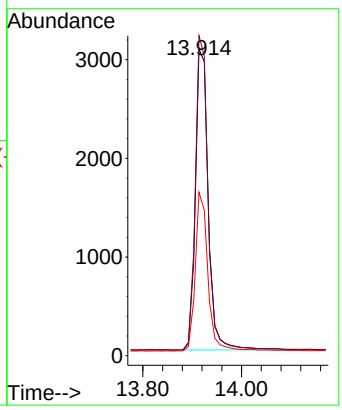




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:164 Resp: 552

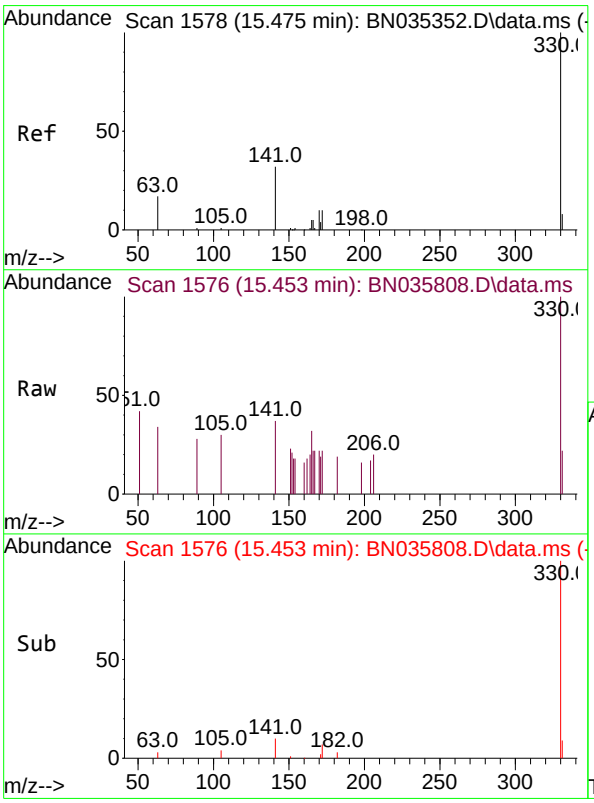
Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	53.3	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

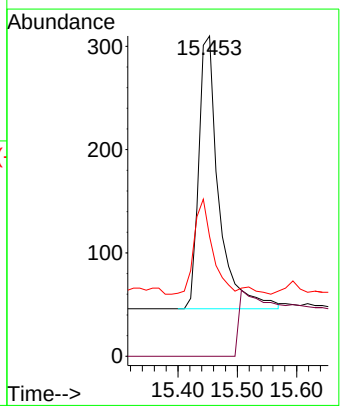
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

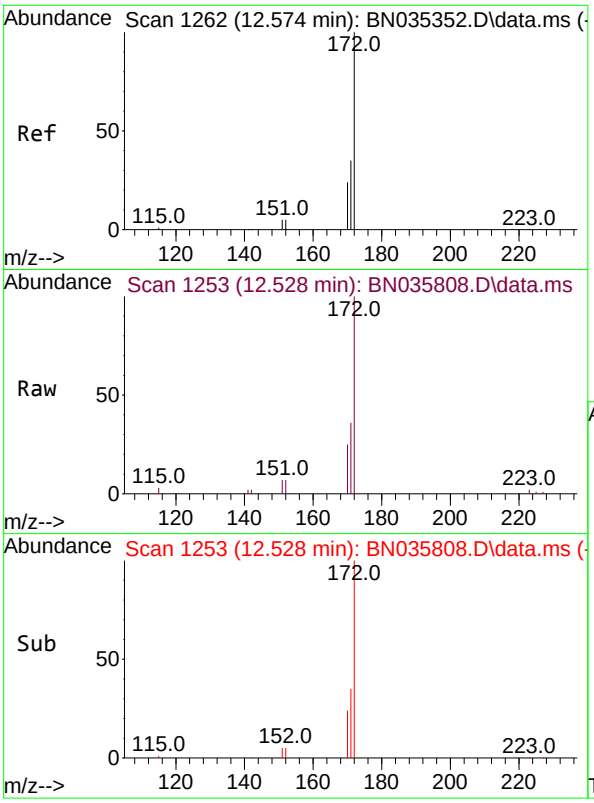


#14
2,4,6-Tribromophenol
Concen: 0.165 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:330 Resp: 647

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.3	26.6	40.0

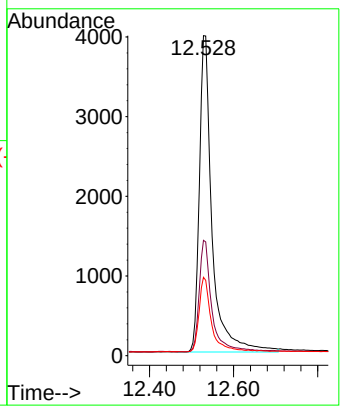




#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:172 Resp: 833

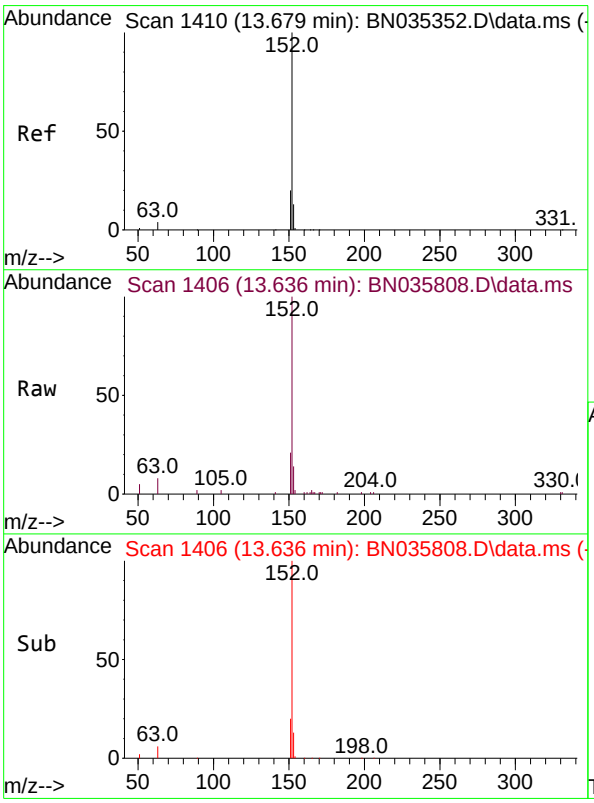
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

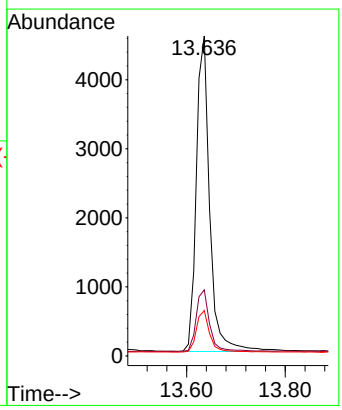
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

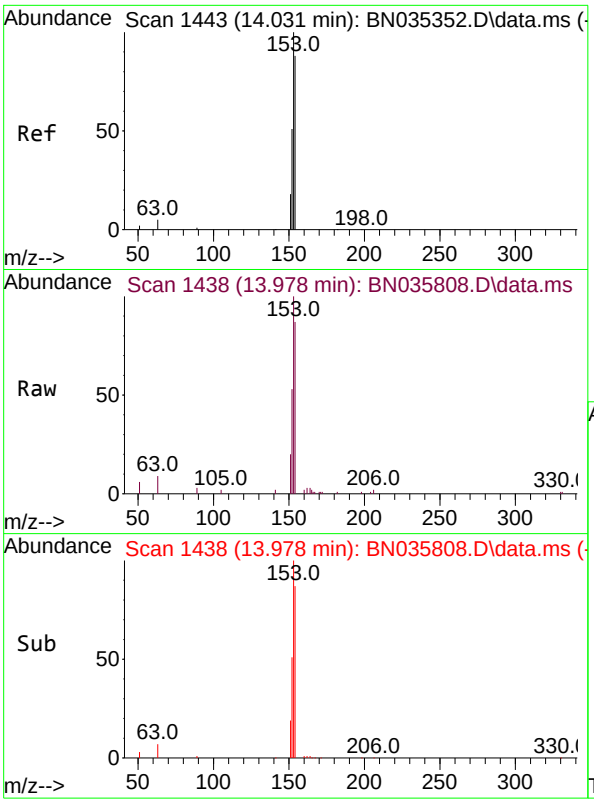


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:152 Resp: 8595

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6

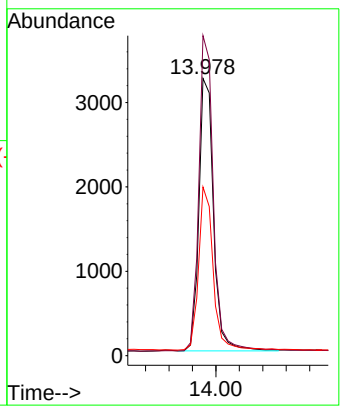




#17
Acenaphthene
Concen: 0.365 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:154 Resp: 561

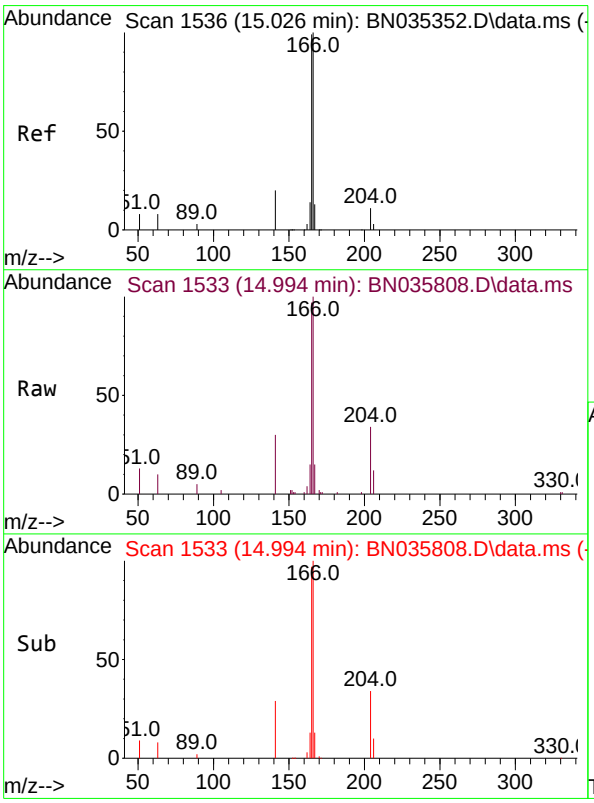
Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	59.8	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

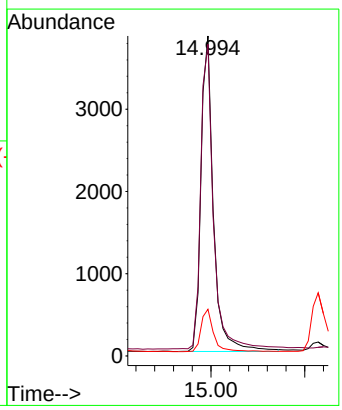
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

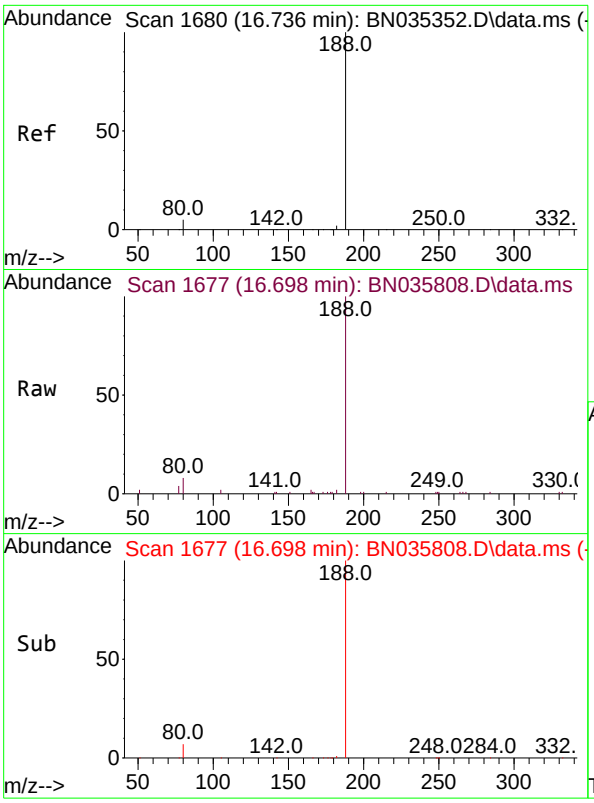


#18
Fluorene
Concen: 0.320 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:166 Resp: 7068

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.7	10.8	16.2

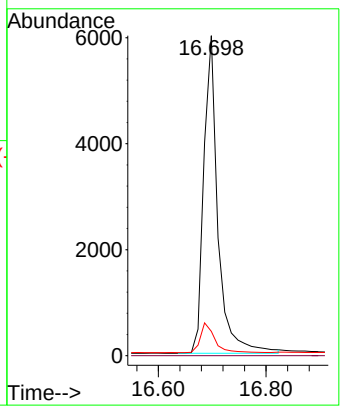




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:188 Resp: 1092(

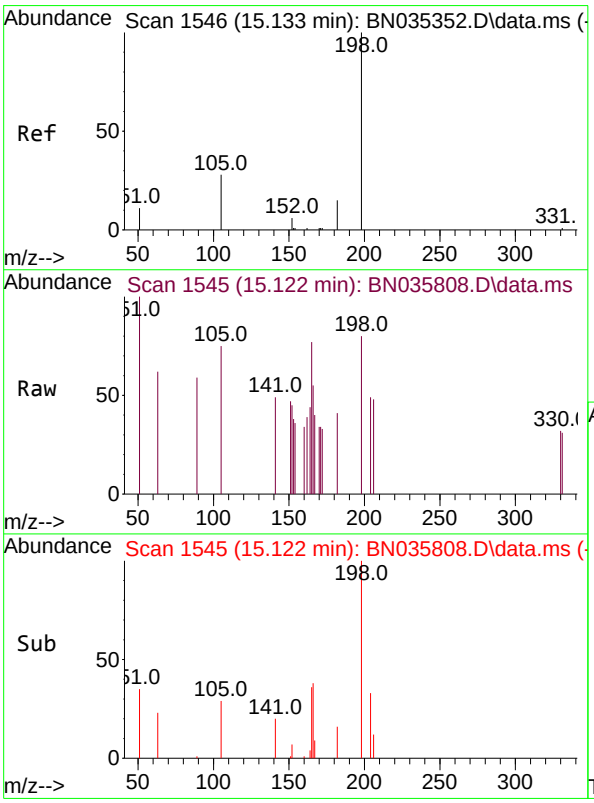
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

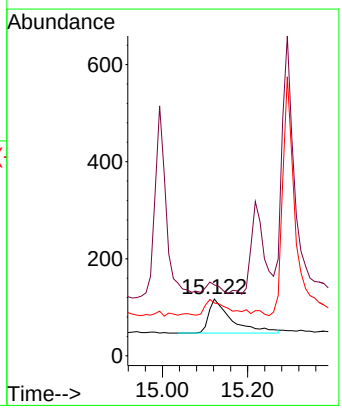
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

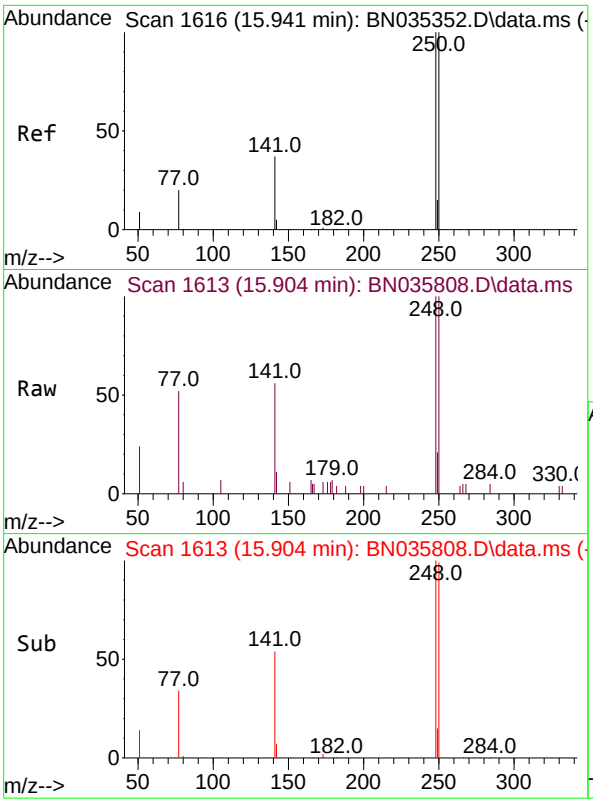


#20
4,6-Dinitro-2-methylphenol
Concen: 0.242 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:198 Resp: 260

Ion	Ratio	Lower	Upper
198	100		
51	124.8	46.5	69.7#
105	93.2	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.349 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

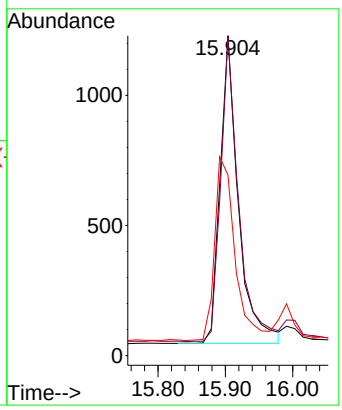
Tgt Ion:248 Resp: 222

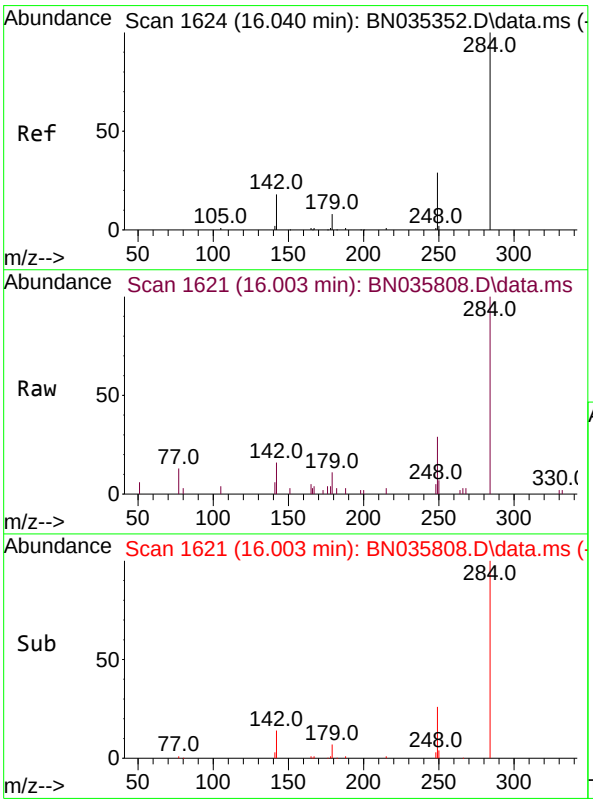
Ion	Ratio	Lower	Upper
248	100		
250	99.8	80.6	120.8
141	56.5	31.5	47.3

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

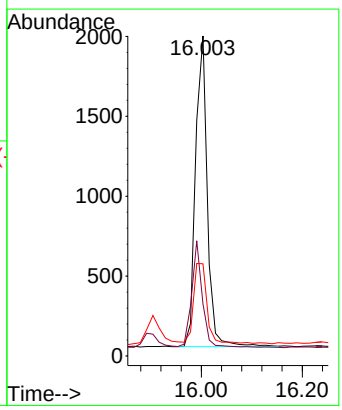


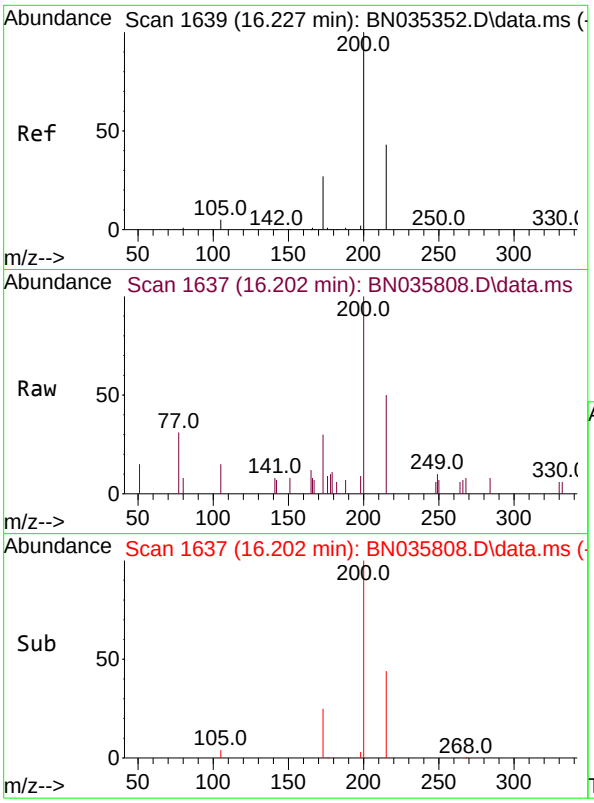


#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:284 Resp: 3165

Ion	Ratio	Lower	Upper
284	100		
142	31.6	26.7	40.1
249	30.2	24.6	36.8

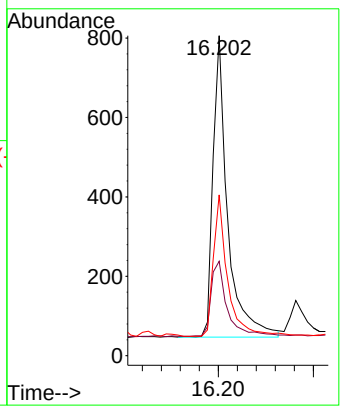




#23
Atrazine
Concen: 0.356 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:200 Resp: 161

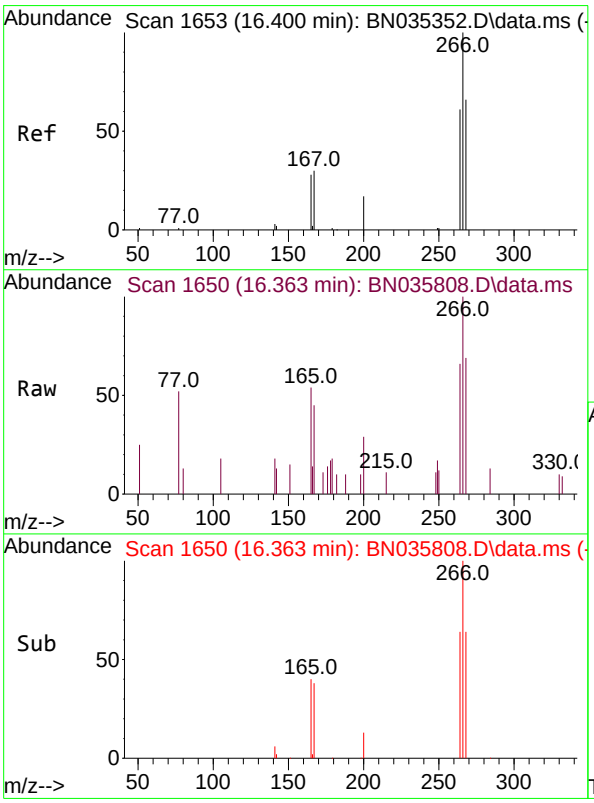
Ion	Ratio	Lower	Upper
200	100		
173	29.5	24.1	36.1
215	50.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

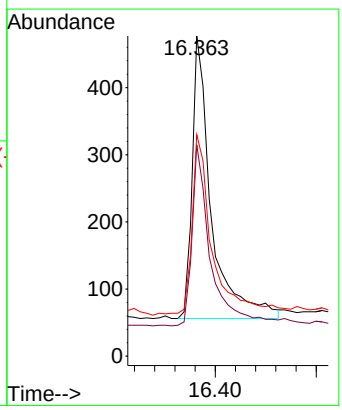
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

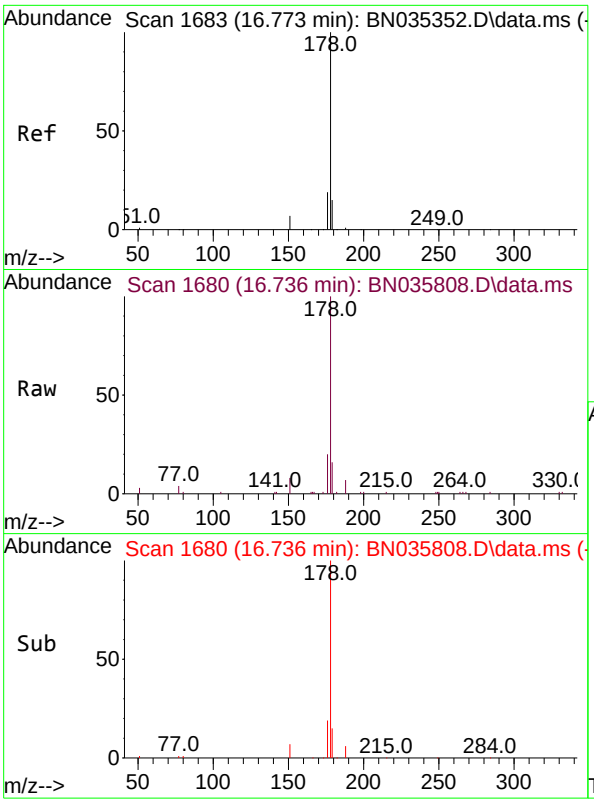


#24
Pentachlorophenol
Concen: 0.341 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:266 Resp: 1112

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	68.0	43.3	64.9#

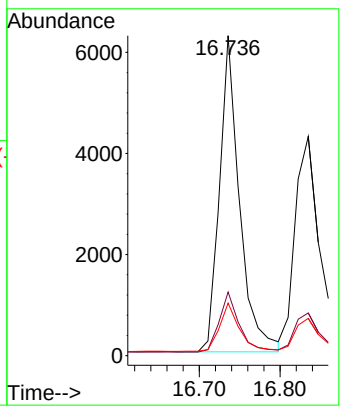




#25
Phenanthrene
Concen: 0.360 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:178 Resp: 1079

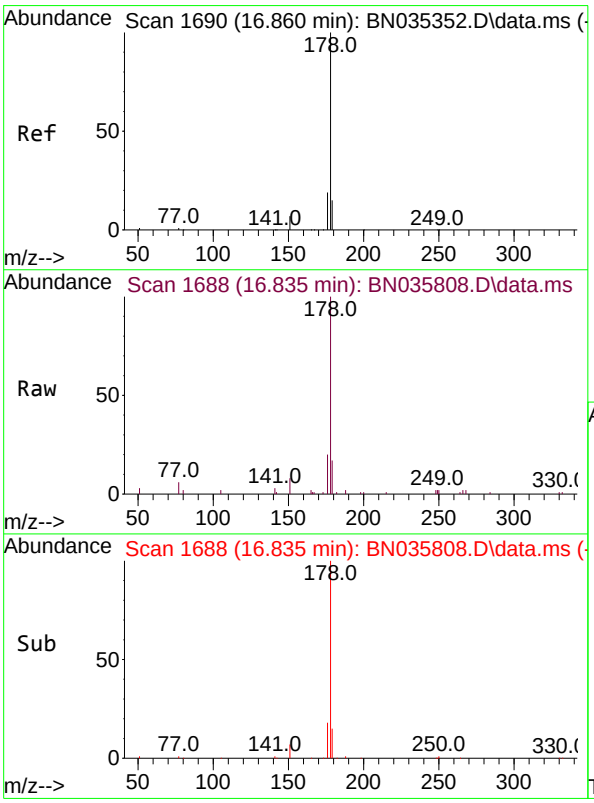
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.2	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

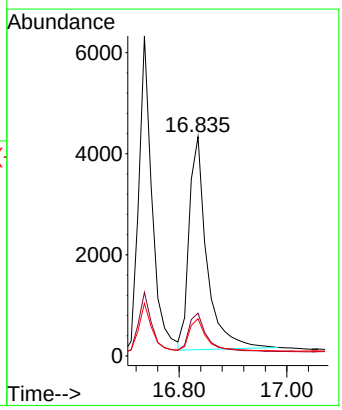
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

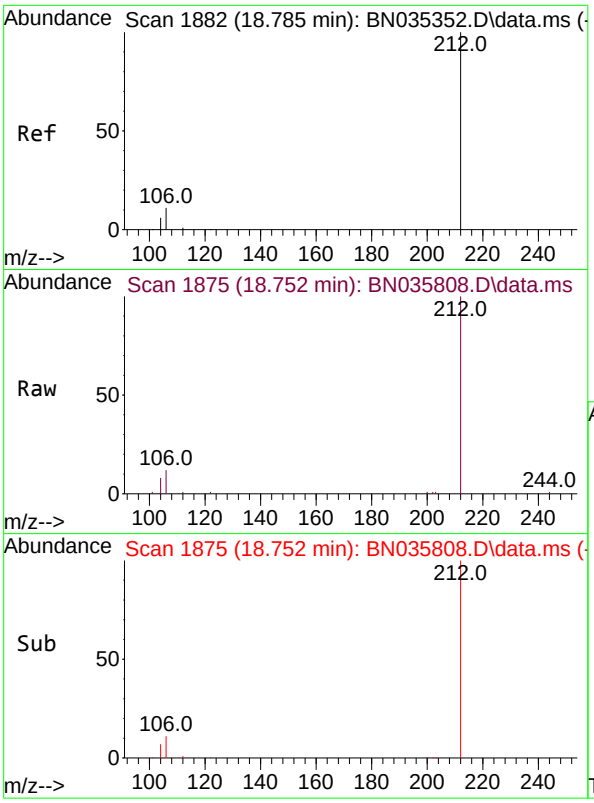


#26
Anthracene
Concen: 0.355 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:178 Resp: 9628

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8

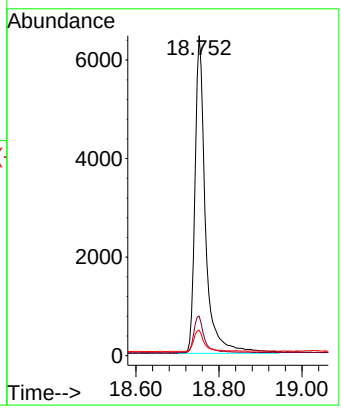




#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:212 Resp: 1134

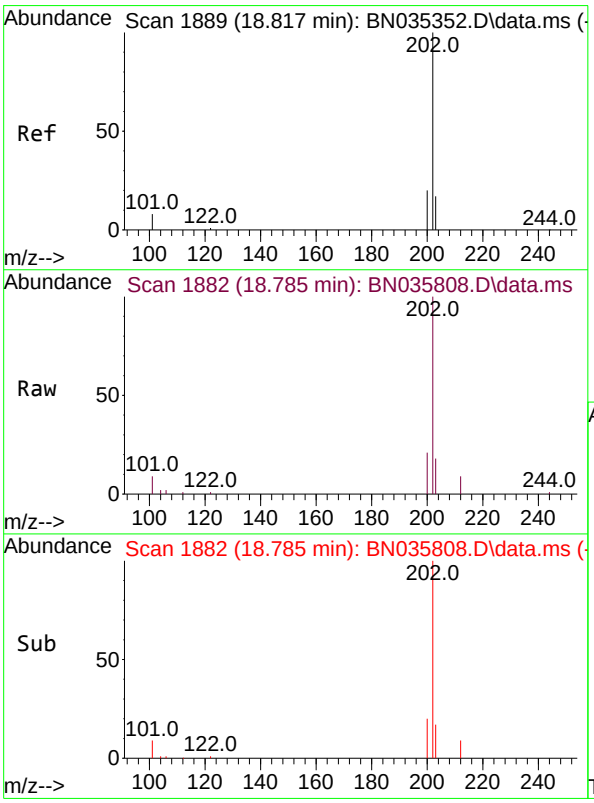
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

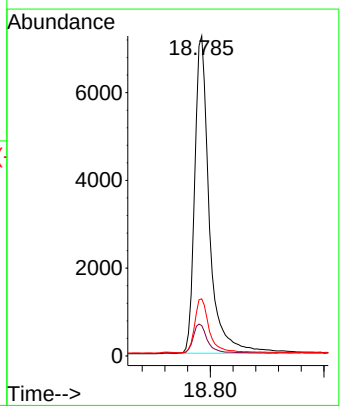
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

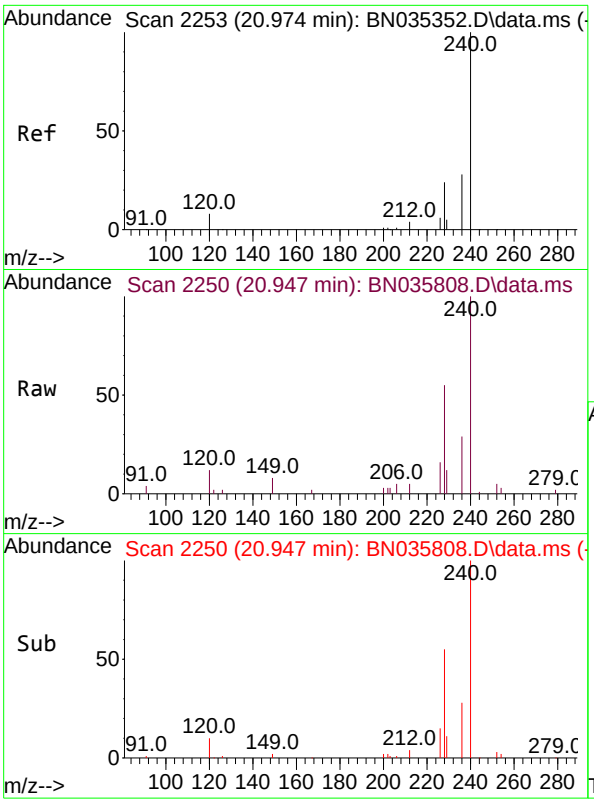


#28
Fluoranthene
Concen: 0.320 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 12957

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.8	13.7	20.5

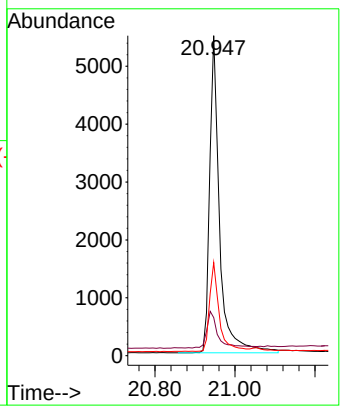




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:240 Resp: 946

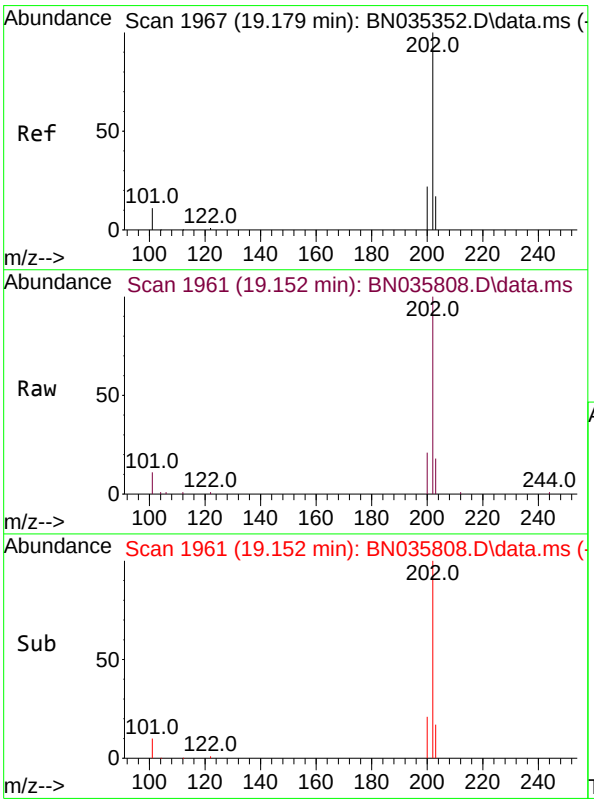
Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9#
236	29.1	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

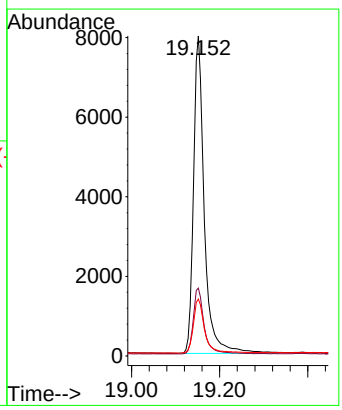
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

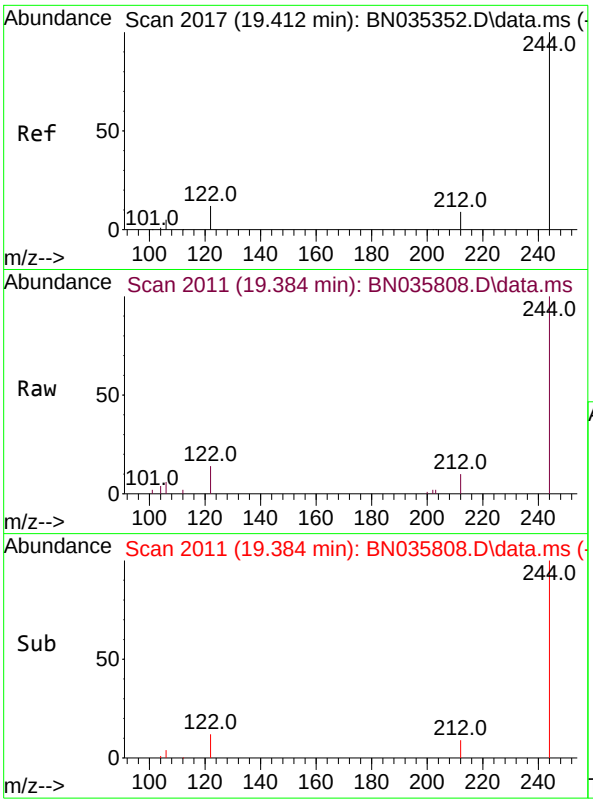


#30
Pyrene
Concen: 0.390 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 13632

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.6	14.3	21.5

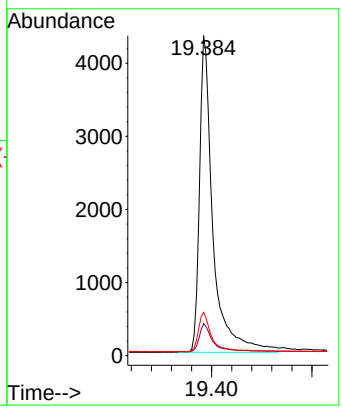




#31
Terphenyl-d14
Concen: 0.431 ng
RT: 19.384 min Scan# 2(
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:244 Resp: 805(

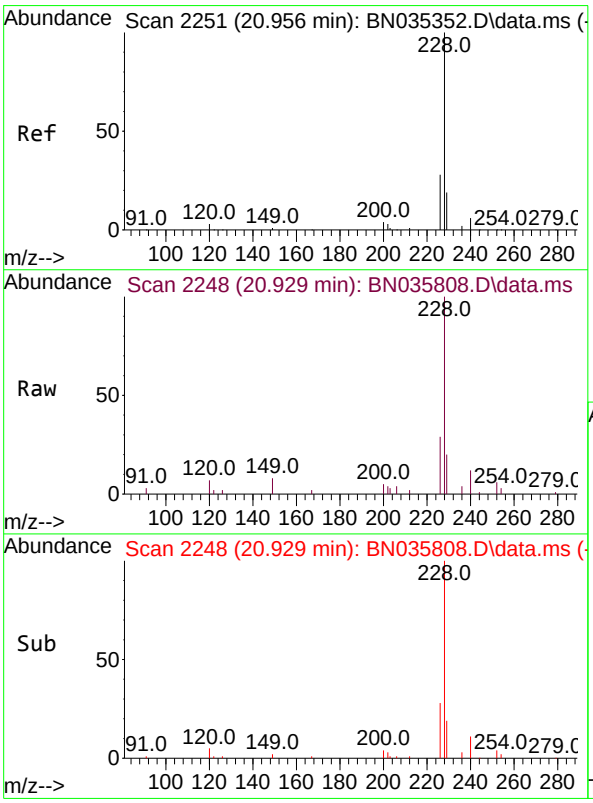
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

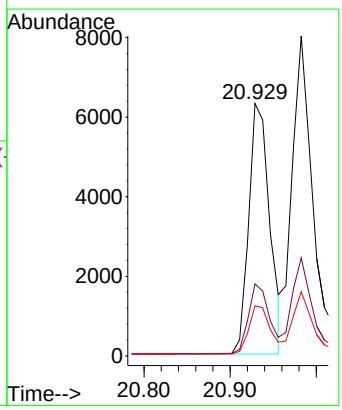
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

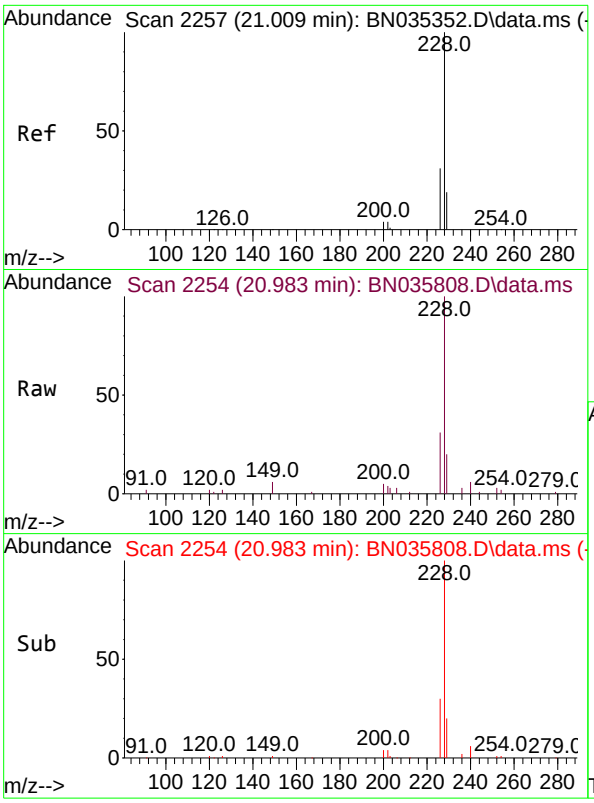


#32
Benzo(a)anthracene
Concen: 0.321 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:228 Resp: 10627

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.9	15.8	23.8

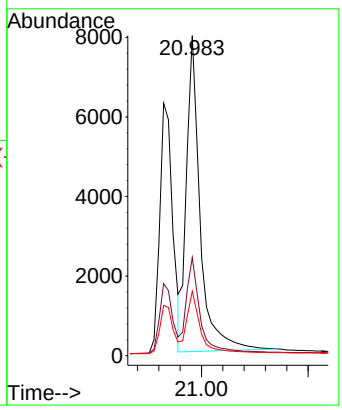




#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:228 Resp: 1418

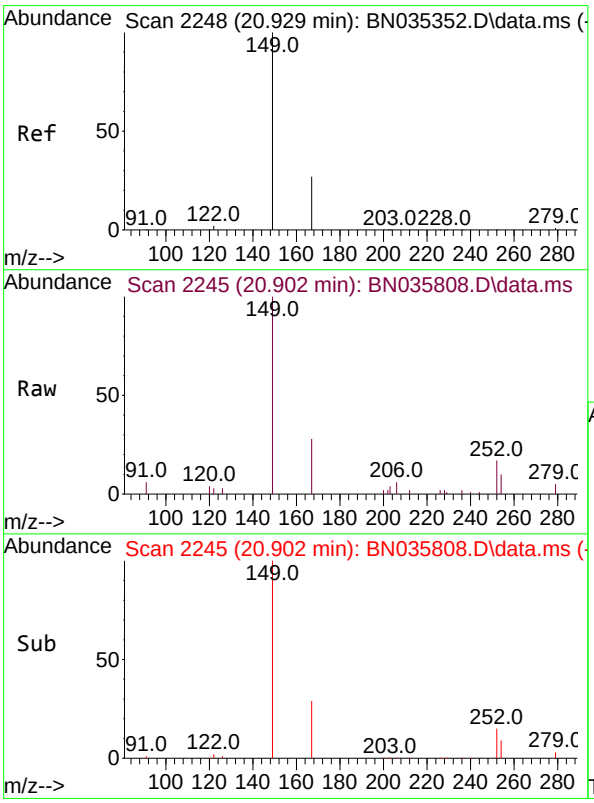
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	20.1	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

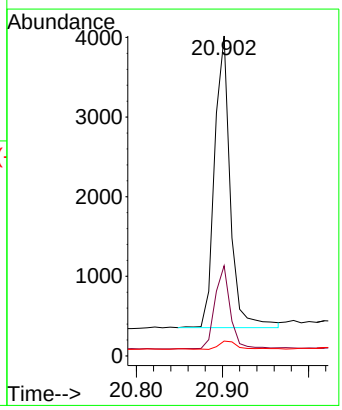
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

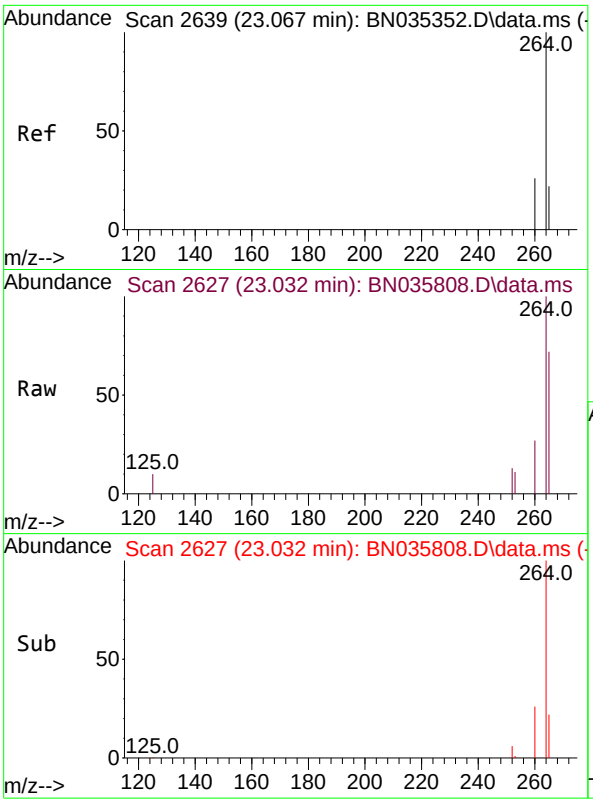


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:149 Resp: 4640

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.2	2.7	4.1

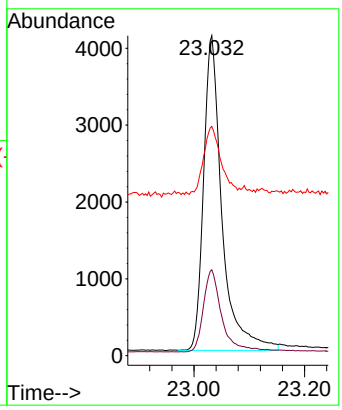




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:264 Resp: 943

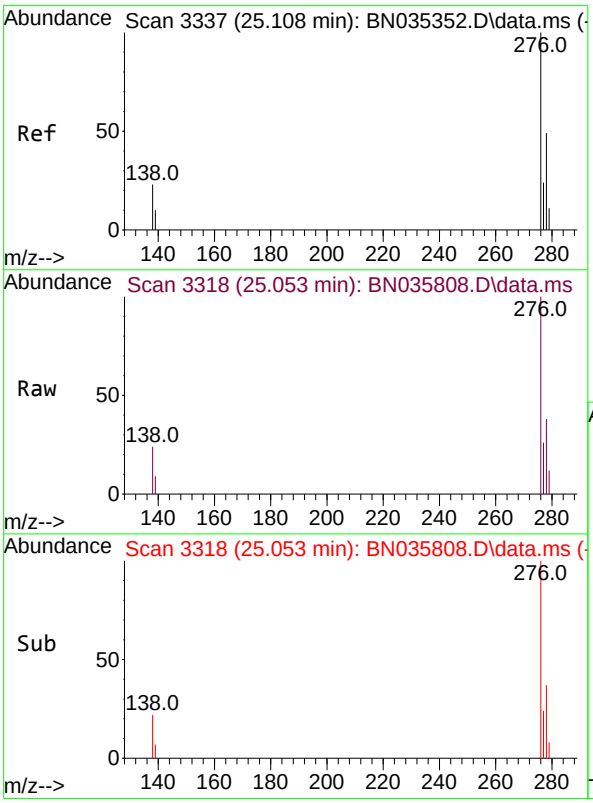
Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	71.7	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

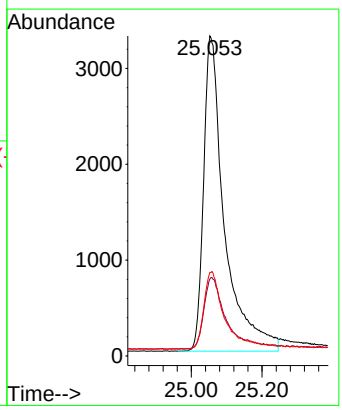
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

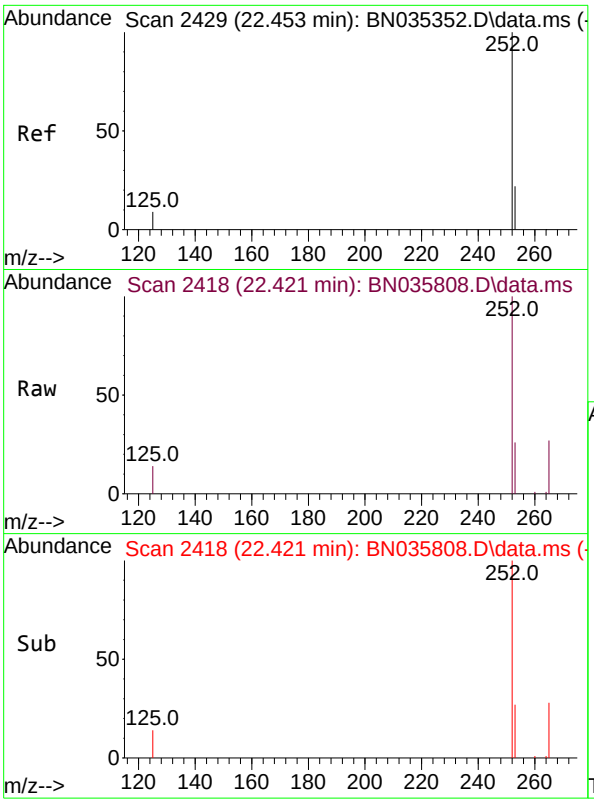


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.053 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:276 Resp: 13497

Ion	Ratio	Lower	Upper
276	100		
138	22.1	19.4	29.0
277	24.4	19.8	29.6

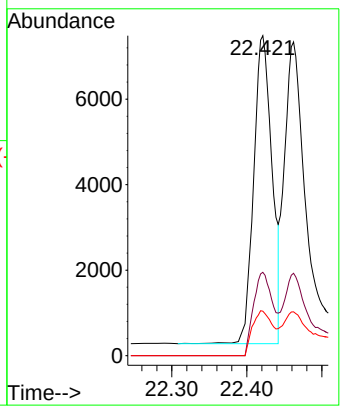




#37
Benzo(b)fluoranthene
Concen: 0.657 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:252 Resp: 2267

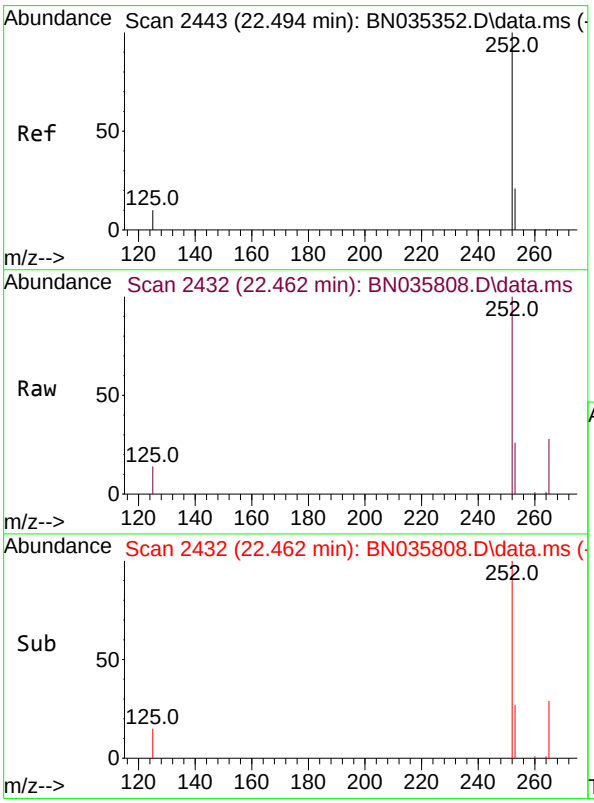
Ion	Ratio	Lower	Upper
252	100		
253	26.1	19.6	29.4
125	13.9	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

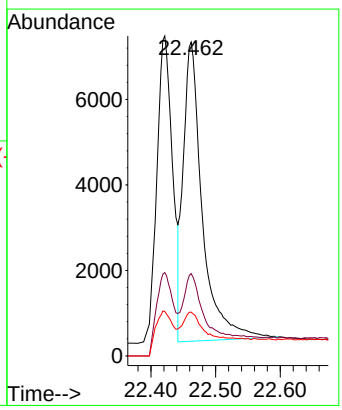
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

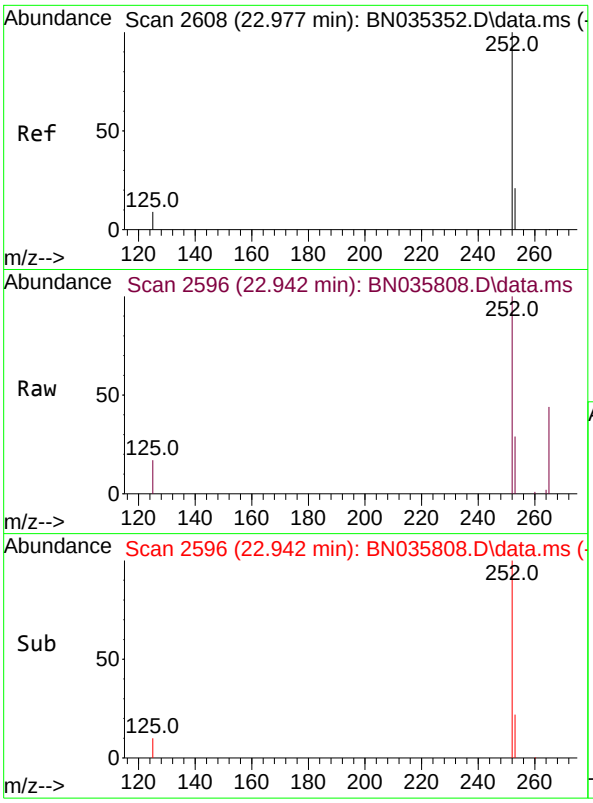


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:252 Resp: 14330

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.5	29.3
125	14.0	10.2	15.4

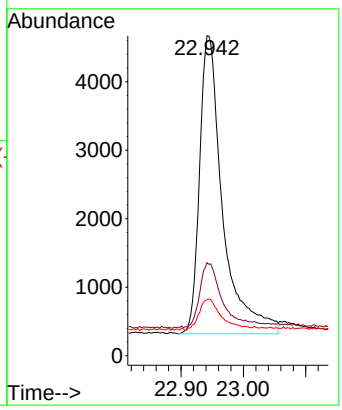




#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:252 Resp: 1122

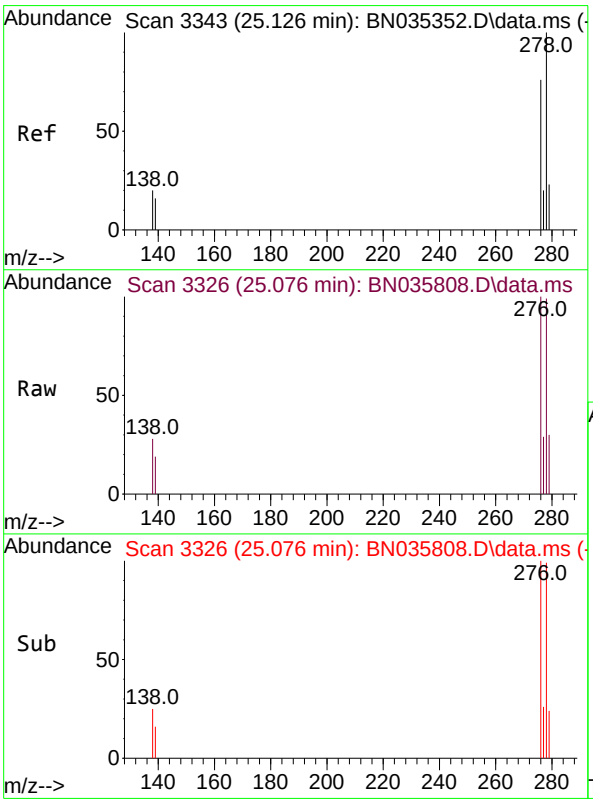
Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.5	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

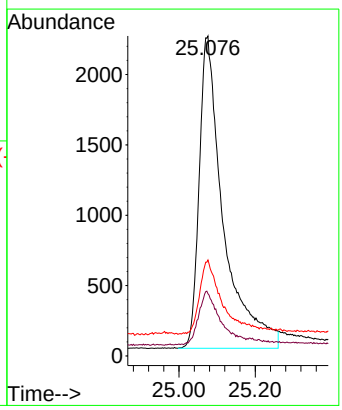
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

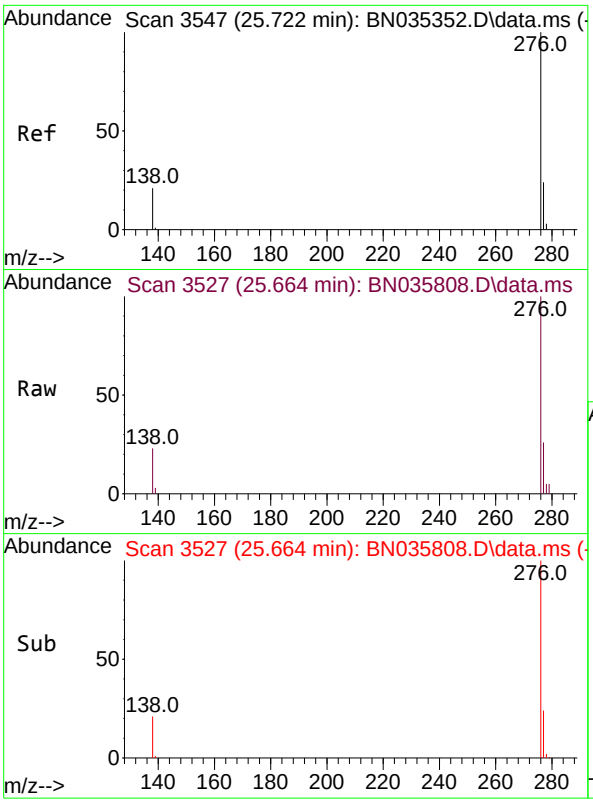


#40
Dibenzo(a,h)anthracene
Concen: 0.336 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:278 Resp: 9782

Ion	Ratio	Lower	Upper
278	100		
139	19.5	14.2	21.4
279	30.0	20.5	30.7

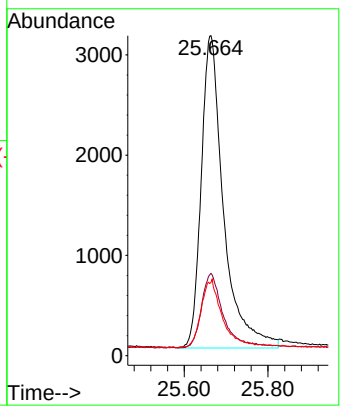




#41
Benzo(g,h,i)perylene
Concen: 0.380 ng
RT: 25.664 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:276 Resp: 1157

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	22.9	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165667BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Raw Data: **BN035735.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW6-11-20241212MS	SDG No.:	P5281
Lab Sample ID:	P5280-04MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035735.D	1	12/16/24 11:30	12/20/24 11:05	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.53		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3050	7.271				
1146-65-2	Naphthalene-d8	8360	10.009				
15067-26-2	Acenaphthene-d10	5200	13.924				
1517-22-2	Phenanthrene-d10	10500	16.698				
1719-03-5	Chrysene-d12	9280	20.947				
1520-96-3	Perylene-d12	9470	23.038				

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

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

Sample Results: **BN035735.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035735.D
Acq On : 20 Dec 2024 11:05
Operator : RC/JU
Sample : P5280-04MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 20 11:38:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.271	152	3051	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	8358	0.400	ng		-0.01
13) Acenaphthene-d10	13.924	164	5197	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10502	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	9278	0.400	ng		# 0.00
35) Perylene-d12	23.038	264	9467	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.939	112	857	0.112	ng		0.00
5) Phenol-d6	6.484	99	610	0.066	ng		0.00
8) Nitrobenzene-d5	8.408	82	1791m	0.351	ng		0.00
11) 2-Methylnaphthalene-d10	11.615	152	4131	0.316	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	679	0.184	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	5479	0.279	ng		0.00
27) Fluoranthene-d10	18.757	212	11313	0.380	ng		0.00
31) Terphenyl-d14	19.388	244	8932	0.488	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1540	0.528	ng	#	84
3) n-Nitrosodimethylamine	3.270	42	330	0.136	ng	#	78
6) bis(2-Chloroethyl)ether	6.723	93	2206	0.286	ng		98
9) Naphthalene	10.062	128	6003	0.272	ng		99
10) Hexachlorobutadiene	10.351	225	846	0.166	ng	#	98
12) 2-Methylnaphthalene	11.691	142	3950	0.250	ng		99
16) Acenaphthylene	13.636	152	6604	0.303	ng		100
17) Acenaphthene	13.988	154	4230	0.292	ng		98
18) Fluorene	14.993	166	5719	0.276	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	103	0.100	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2167	0.353	ng	#	84
22) Hexachlorobenzene	16.003	284	2445	0.339	ng		96
23) Atrazine	16.202	200	1259	0.288	ng		94
24) Pentachlorophenol	16.375	266	273	0.087	ng	#	79
25) Phenanthrene	16.735	178	10260	0.356	ng		100
26) Anthracene	16.835	178	8925	0.342	ng		99
28) Fluoranthene	18.789	202	12930	0.332	ng		99
30) Pyrene	19.156	202	13495	0.394	ng		99
32) Benzo(a)anthracene	20.938	228	11302	0.348	ng		99
33) Chrysene	20.982	228	12637	0.378	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6113	0.477	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.061	276	12412	0.335	ng		97
37) Benzo(b)fluoranthene	22.427	252	18573	0.536	ng		95
38) Benzo(k)fluoranthene	22.468	252	12887m	0.378	ng		
39) Benzo(a)pyrene	22.950	252	9310	0.326	ng	#	90
40) Dibenzo(a,h)anthracene	25.082	278	9663	0.331	ng		95
41) Benzo(g,h,i)perylene	25.675	276	9301	0.305	ng		99

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

Sample Results: **BN035735.D**

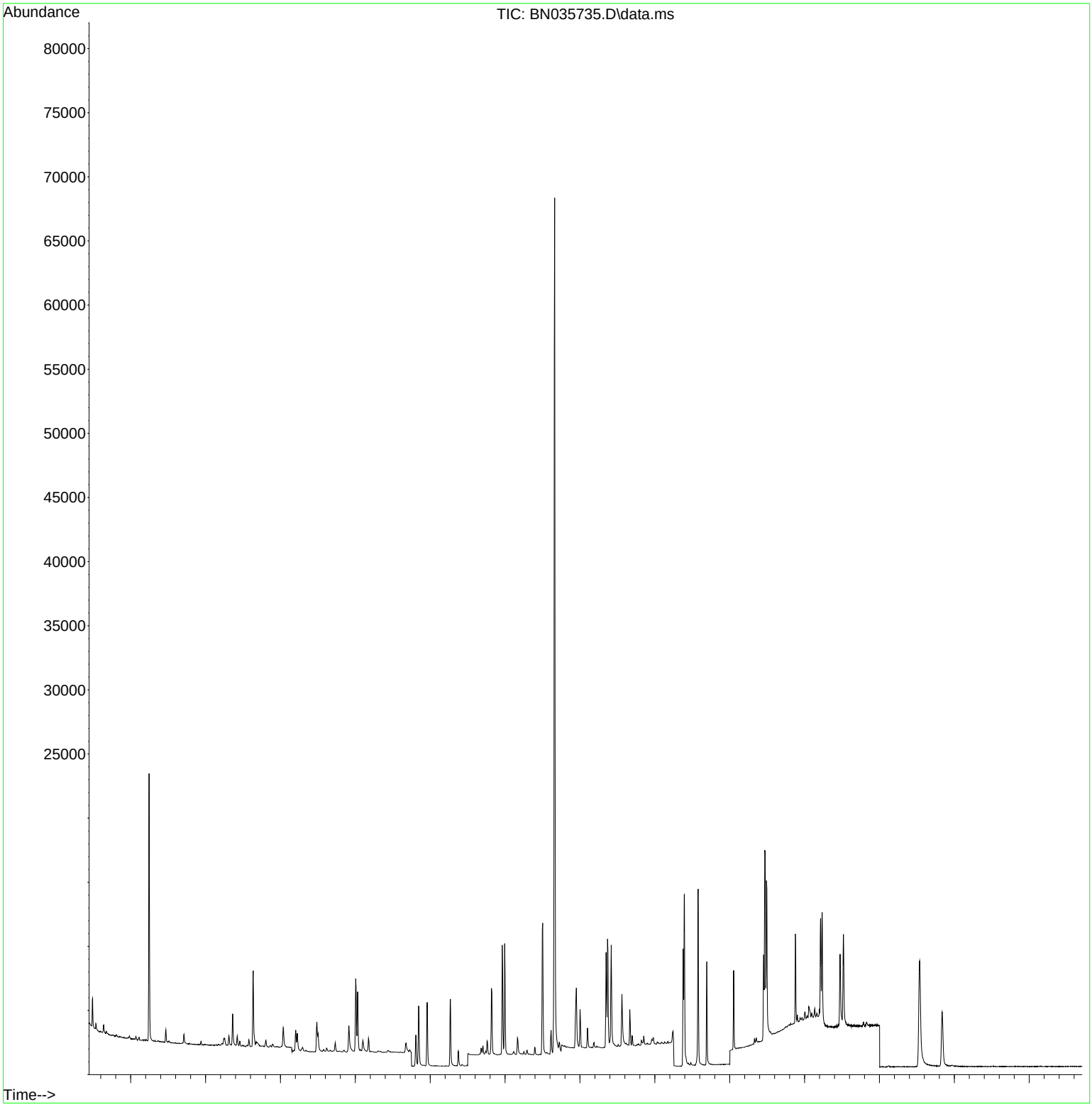
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035735.D
Acq On : 20 Dec 2024 11:05
Operator : RC/JU
Sample : P5280-04MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

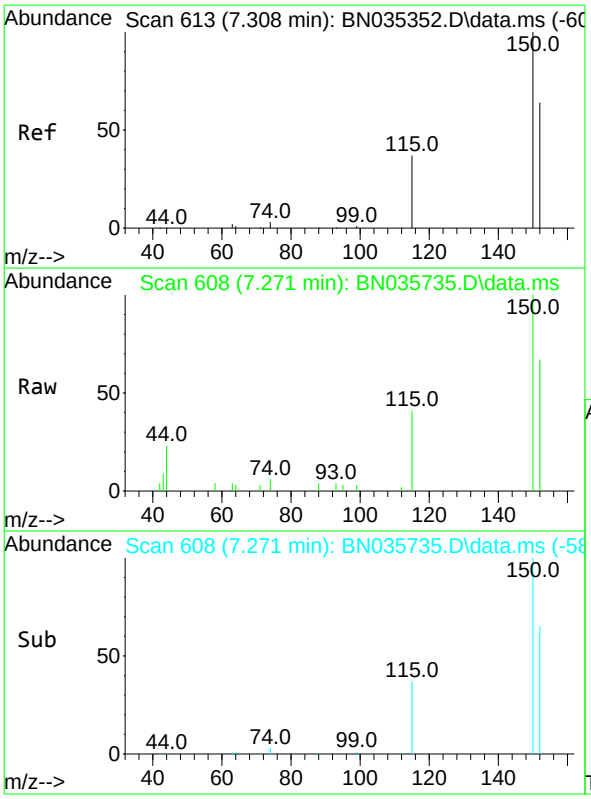
Quant Time: Dec 20 11:38:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

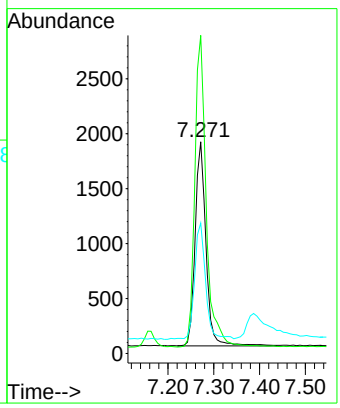




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 60
Delta R.T. -0.001 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:152 Resp: 3051

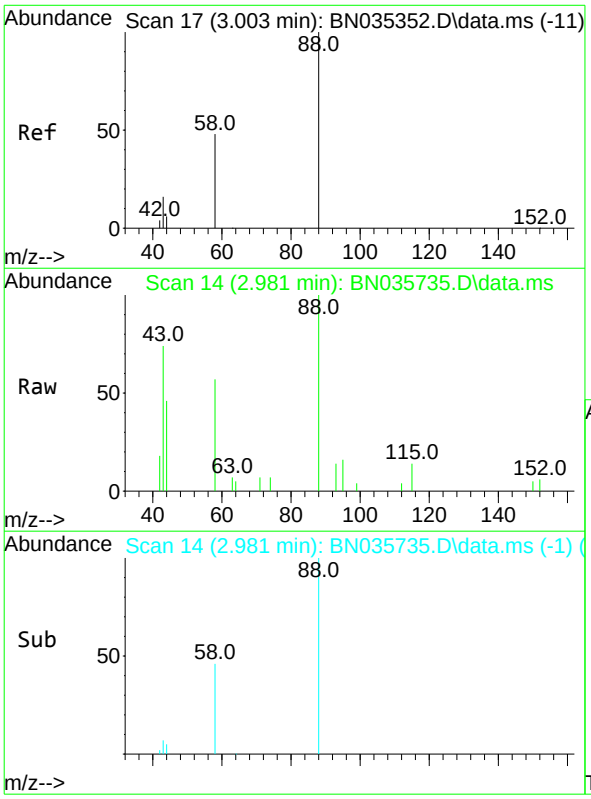
Ion	Ratio	Lower	Upper
152	100		
150	150.2	124.0	186.0
115	61.6	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

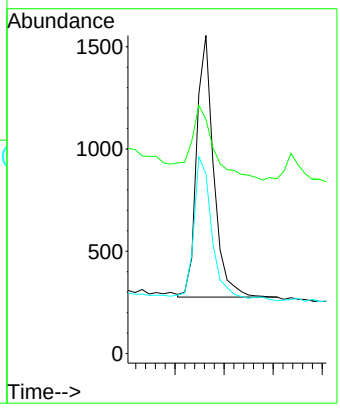
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

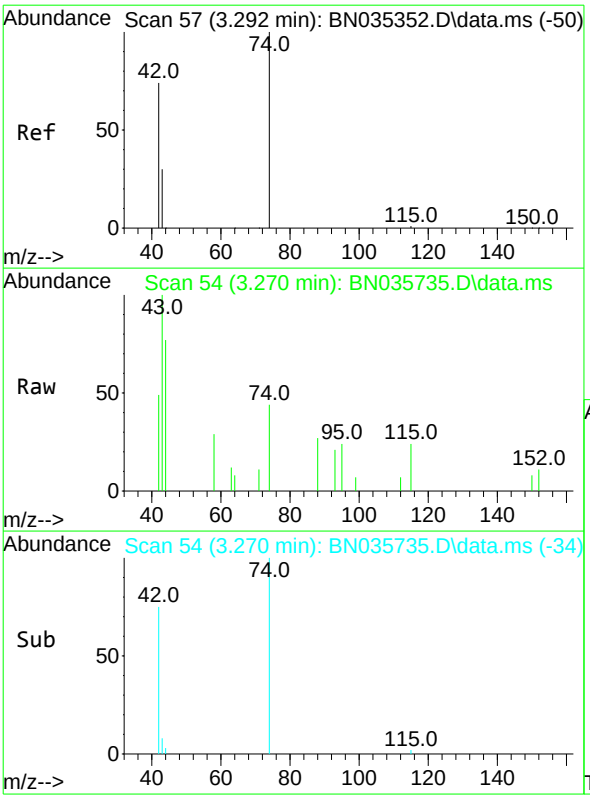


#2
1,4-Dioxane
Concen: 0.528 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 88 Resp: 1540

Ion	Ratio	Lower	Upper
88	100		
43	40.1	17.2	25.8#
58	60.8	44.5	66.7

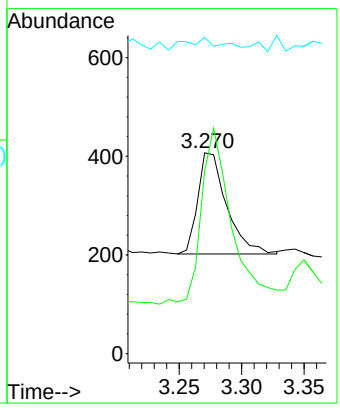




#3
n-Nitrosodimethylamine
Concen: 0.136 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 42 Resp: 330

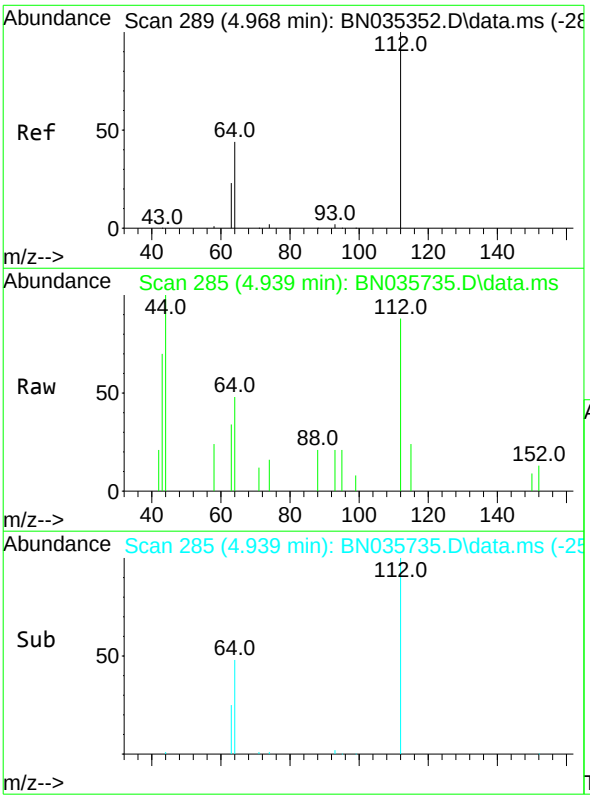
Ion	Ratio	Lower	Upper
42	100		
74	184.5	124.9	187.3
44	0.0	2.2	3.4#



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

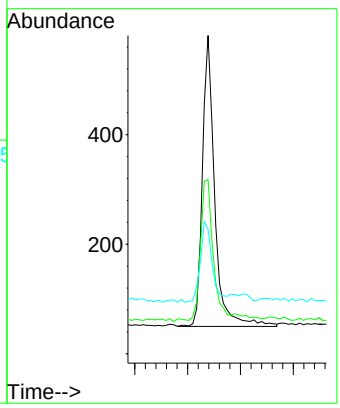
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

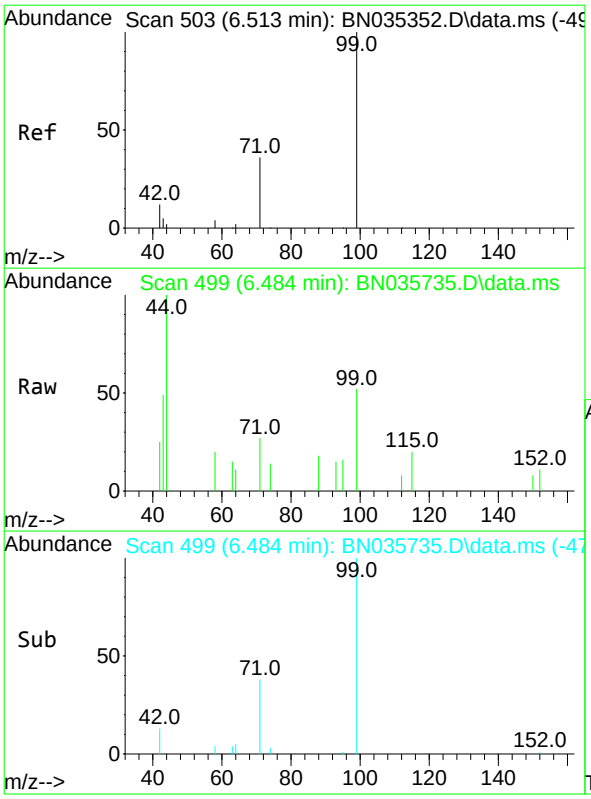


#4
2-Fluorophenol
Concen: 0.112 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:112 Resp: 857

Ion	Ratio	Lower	Upper
112	100		
64	52.4	39.8	59.8
63	26.8	21.0	31.6

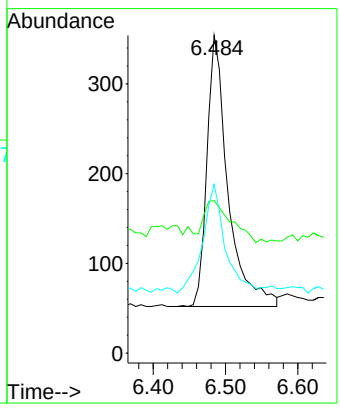




#5
Phenol-d6
Concen: 0.066 ng
RT: 6.484 min Scan# 49
Delta R.T. -0.007 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 99 Resp: 610

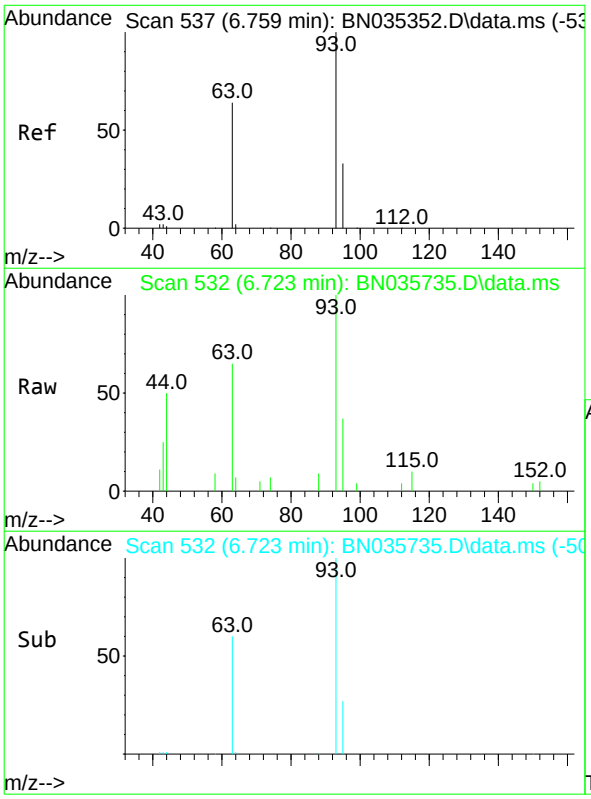
Ion	Ratio	Lower	Upper
99	100		
42	19.2	11.4	17.2#
71	43.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

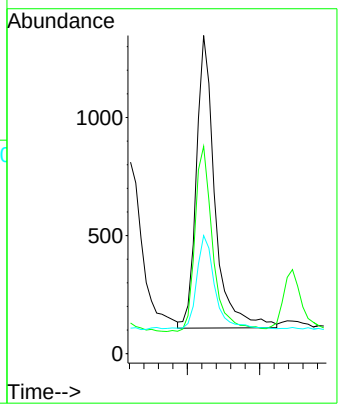
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

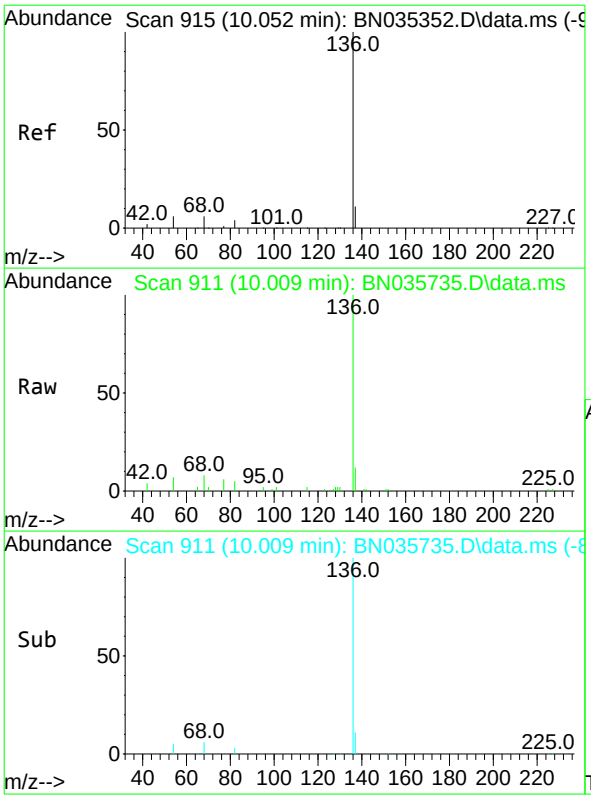


#6
bis(2-Chloroethyl)ether
Concen: 0.286 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 93 Resp: 2206

Ion	Ratio	Lower	Upper
93	100		
63	61.4	50.4	75.6
95	30.6	25.7	38.5

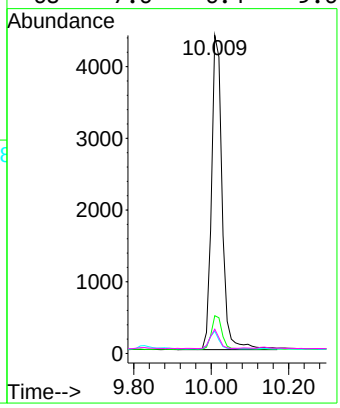




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:136 Resp: 8358

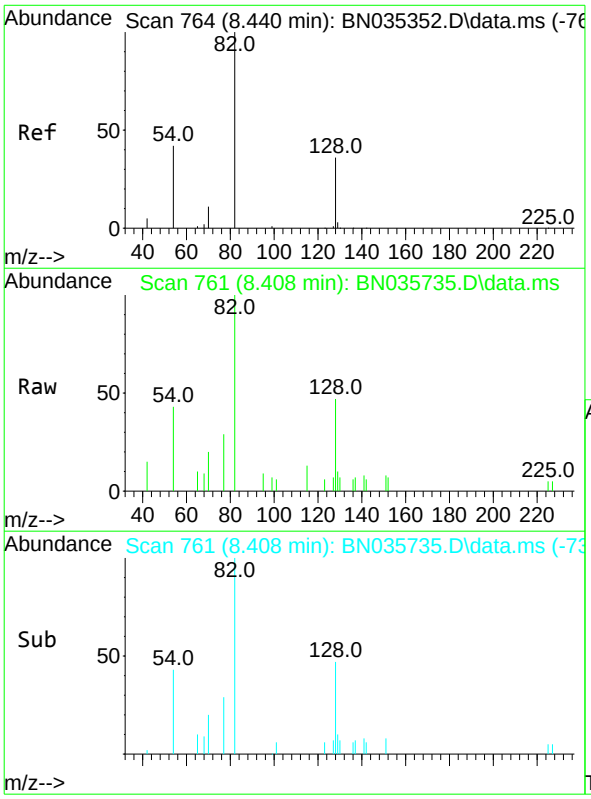
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.2	15.2
54	7.0	6.1	9.1
68	7.6	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

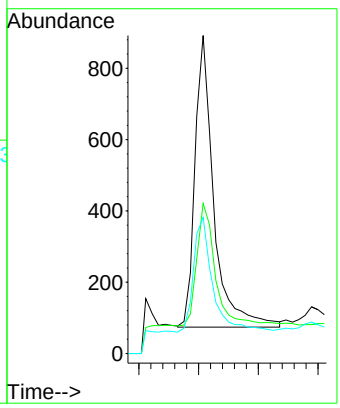
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

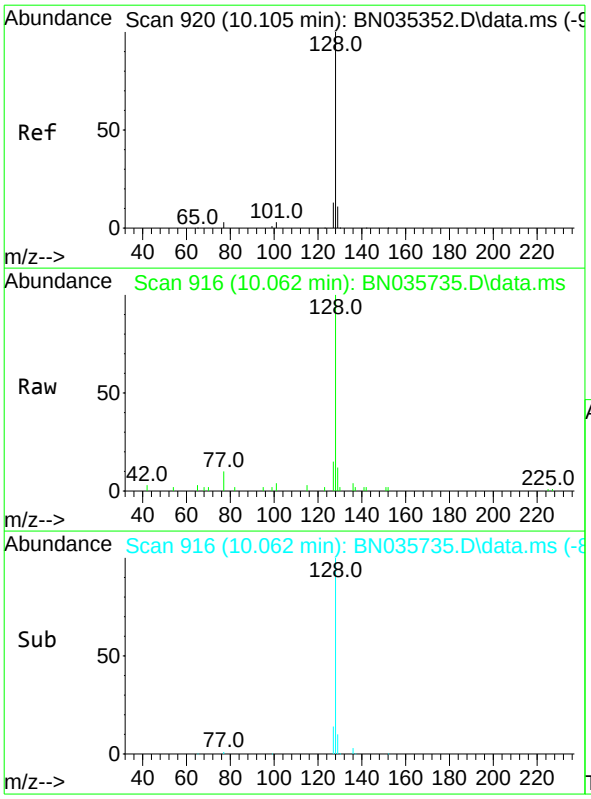


#8
Nitrobenzene-d5
Concen: 0.351 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 82 Resp: 1791

Ion	Ratio	Lower	Upper
82	100		
128	47.2	33.4	50.0
54	42.8	36.7	55.1





#9
Naphthalene
Concen: 0.272 ng
RT: 10.062 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

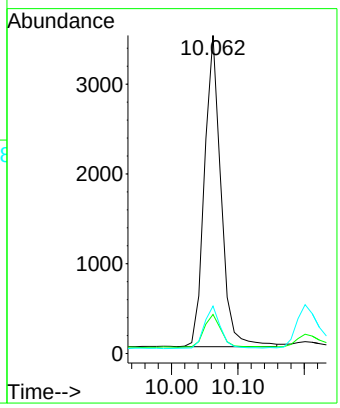
Tgt Ion:128 Resp: 6003

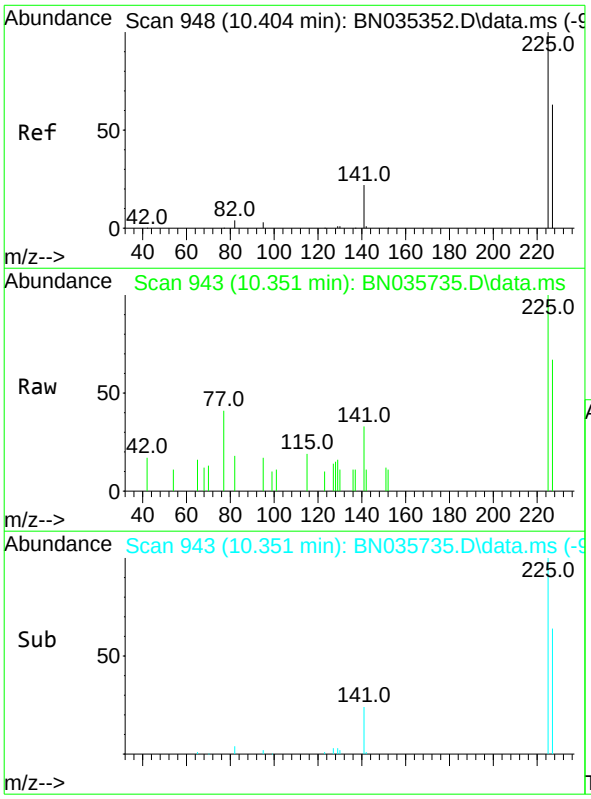
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	14.9	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

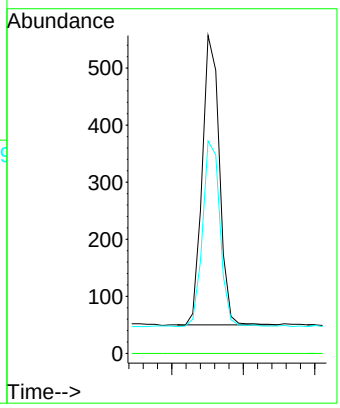


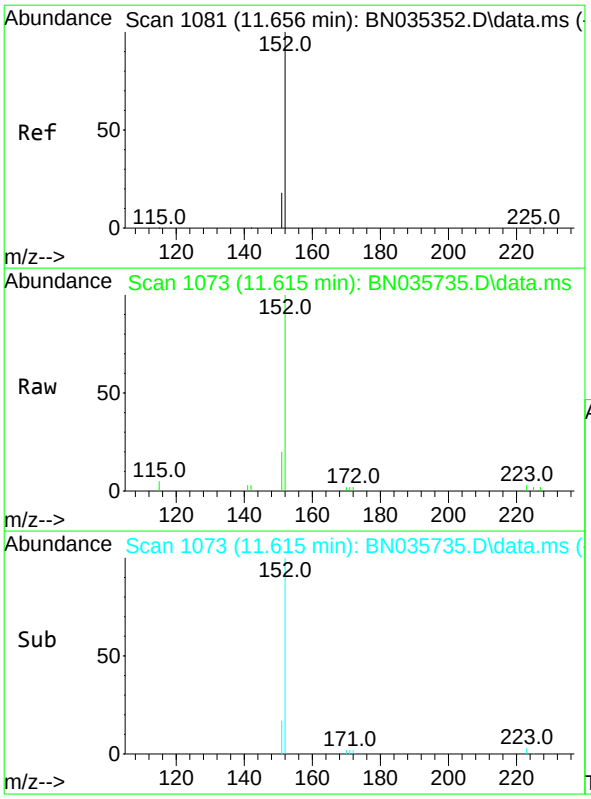


#10
Hexachlorobutadiene
Concen: 0.166 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:225 Resp: 846

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 11.615 min Scan# 10
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

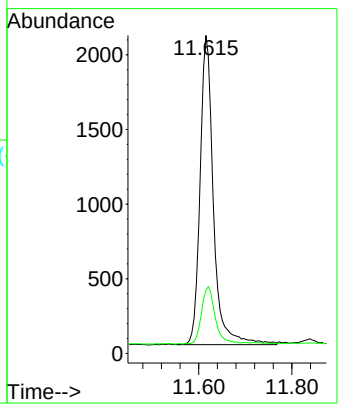
Tgt Ion:152 Resp: 4131

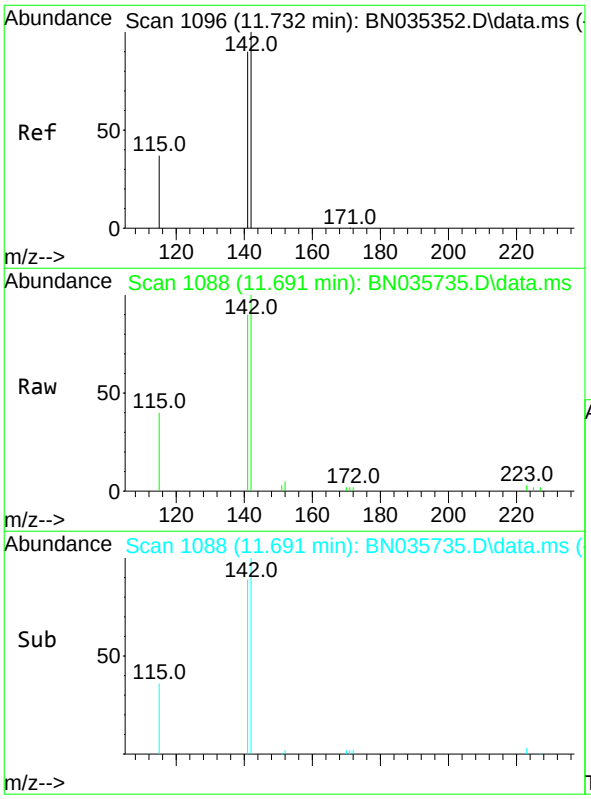
Ion	Ratio	Lower	Upper
152	100		
151	19.0	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

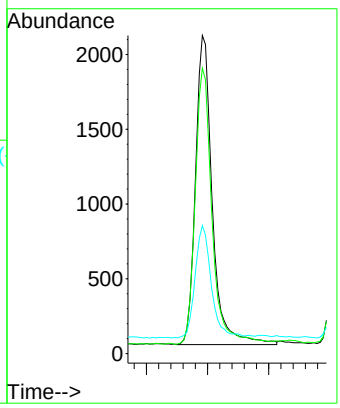


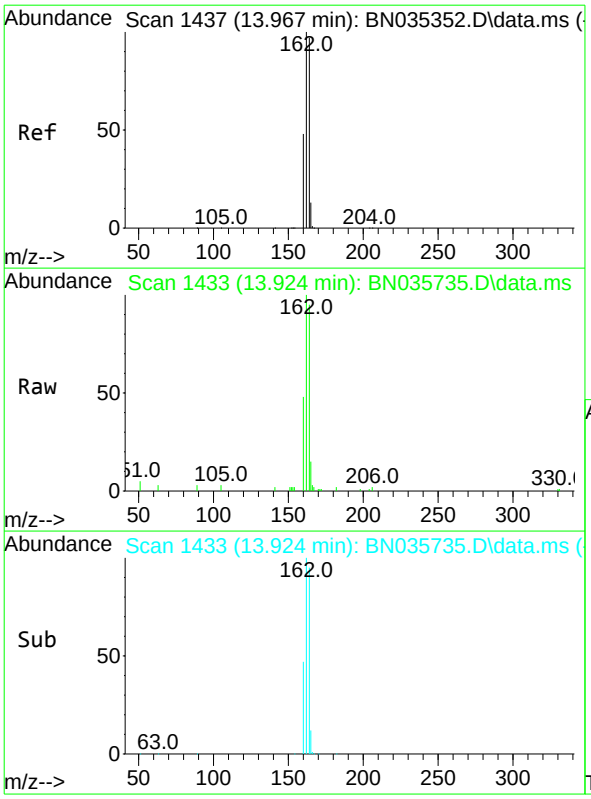


#12
2-Methylnaphthalene
Concen: 0.250 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:142 Resp: 3950

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.2	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

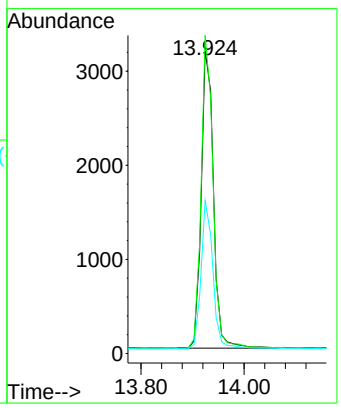
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

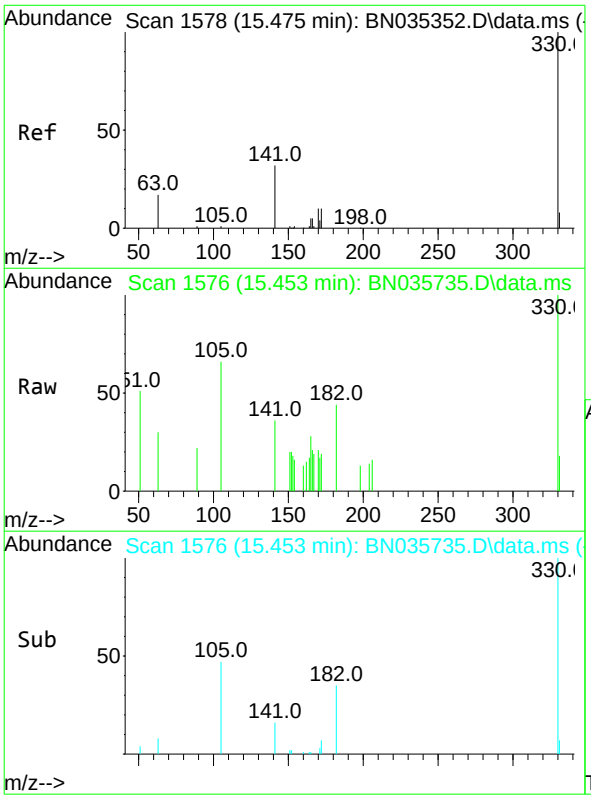
Tgt Ion:164 Resp: 5197

Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	50.5	40.1	60.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

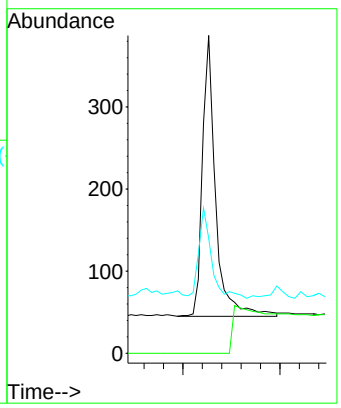


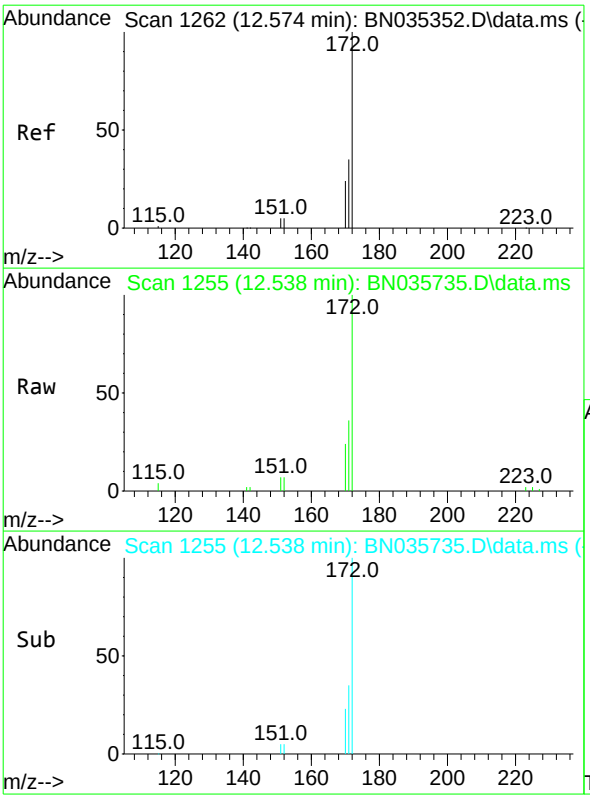


#14
2,4,6-Tribromophenol
Concen: 0.184 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:330 Resp: 679

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.9	26.6	40.0

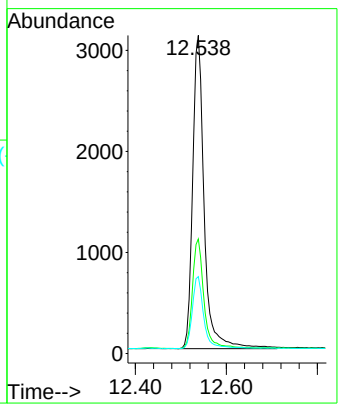




#15
2-Fluorobiphenyl
Concen: 0.279 ng
RT: 12.538 min Scan# 12
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:172 Resp: 5479

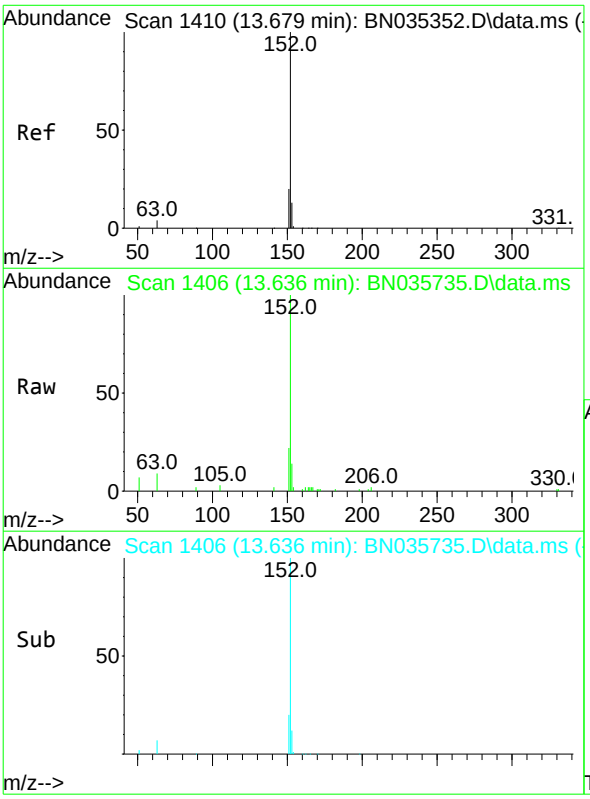
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.2	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

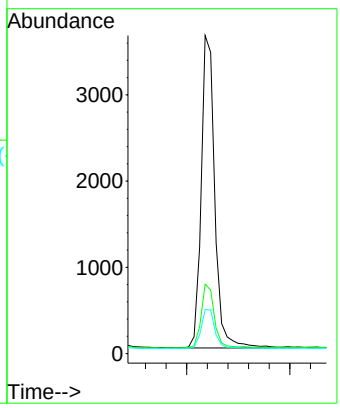
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

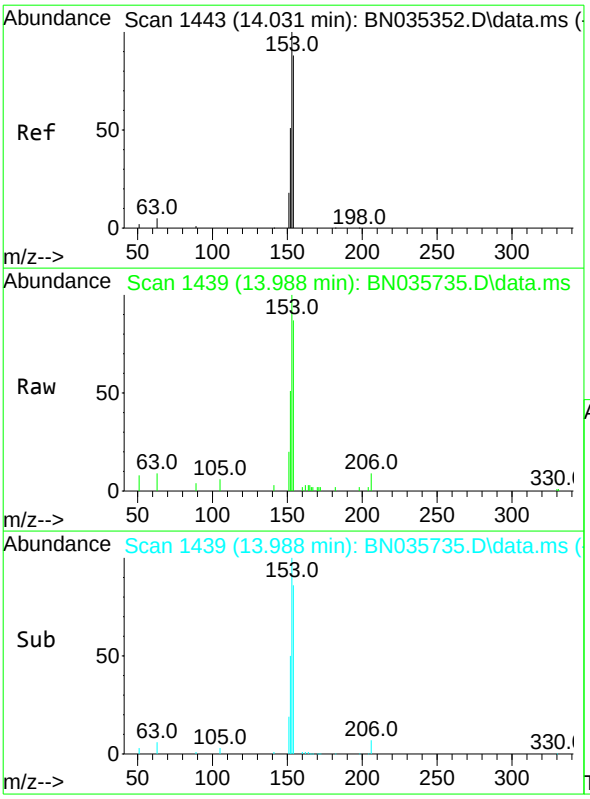


#16
Acenaphthylene
Concen: 0.303 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:152 Resp: 6604

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.1	10.4	15.6

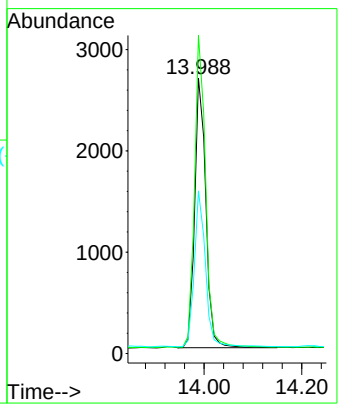




#17
Acenaphthene
Concen: 0.292 ng
RT: 13.988 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:154 Resp: 4230

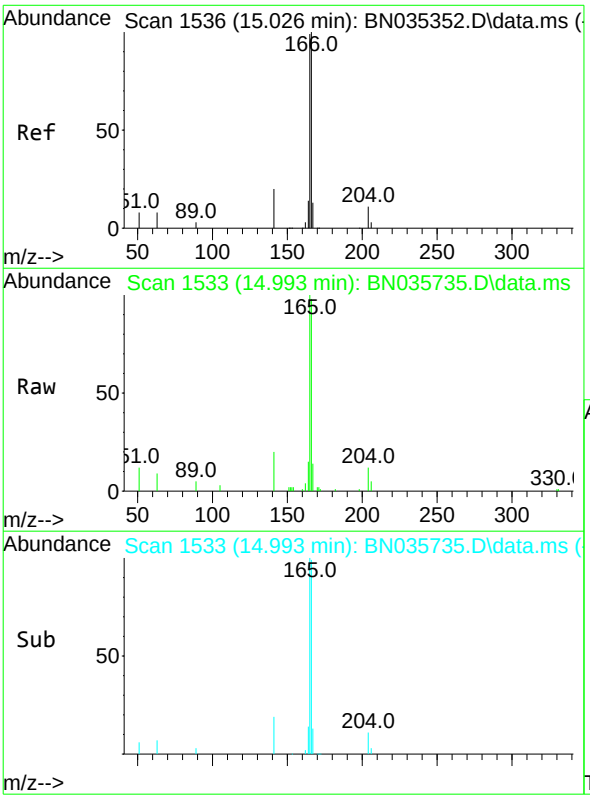
Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	57.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

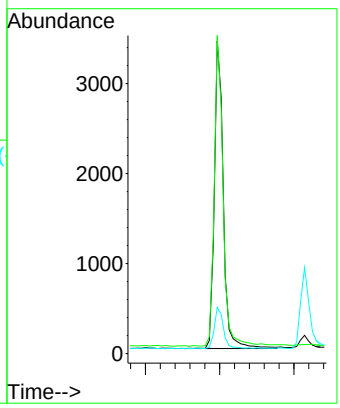
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

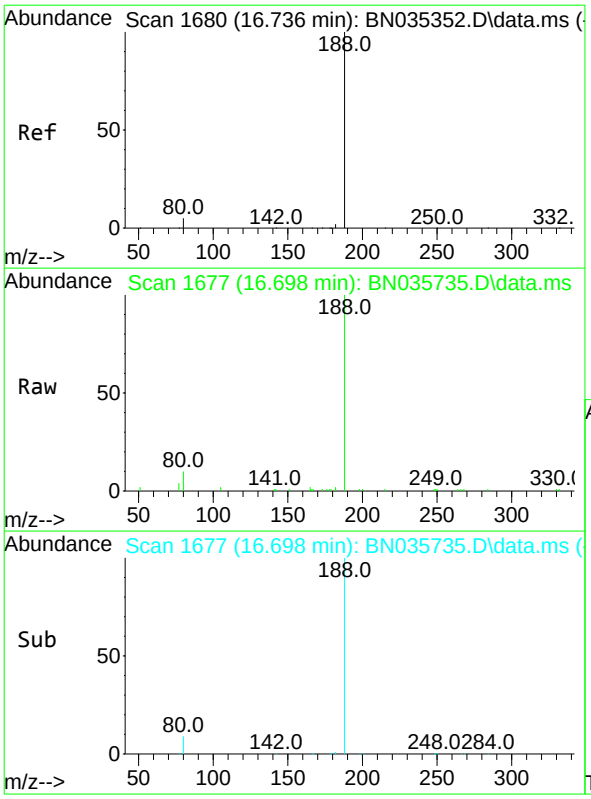


#18
Fluorene
Concen: 0.276 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:166 Resp: 5719

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.7	119.5
167	13.9	10.8	16.2

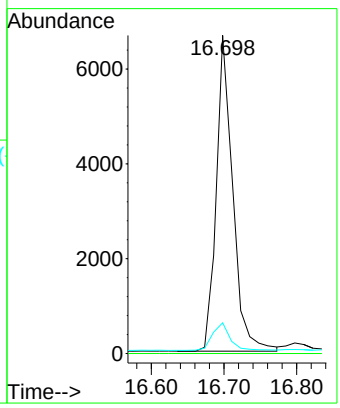




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:188 Resp: 10502

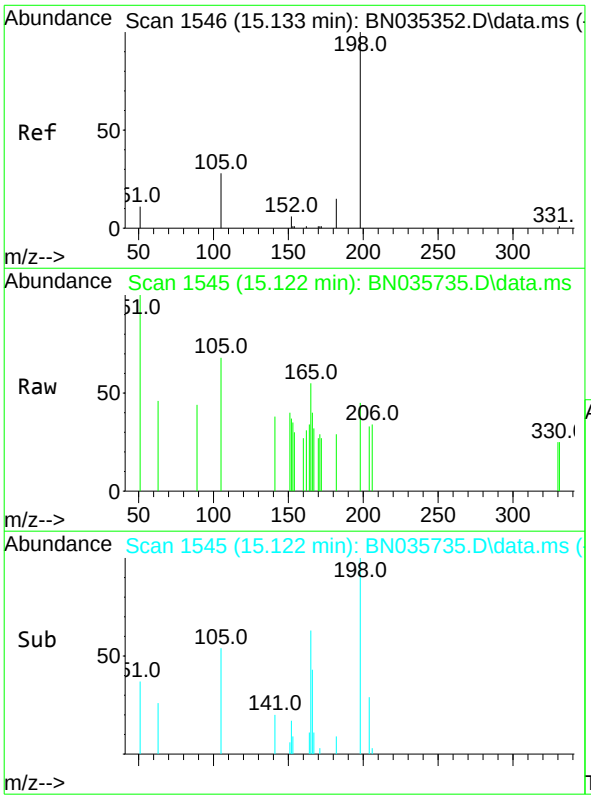
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

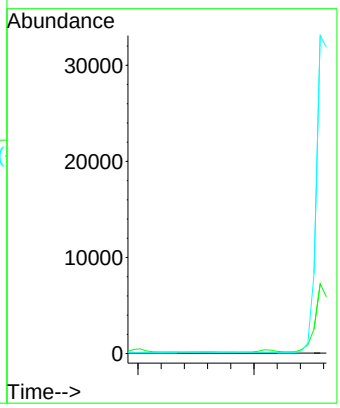
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

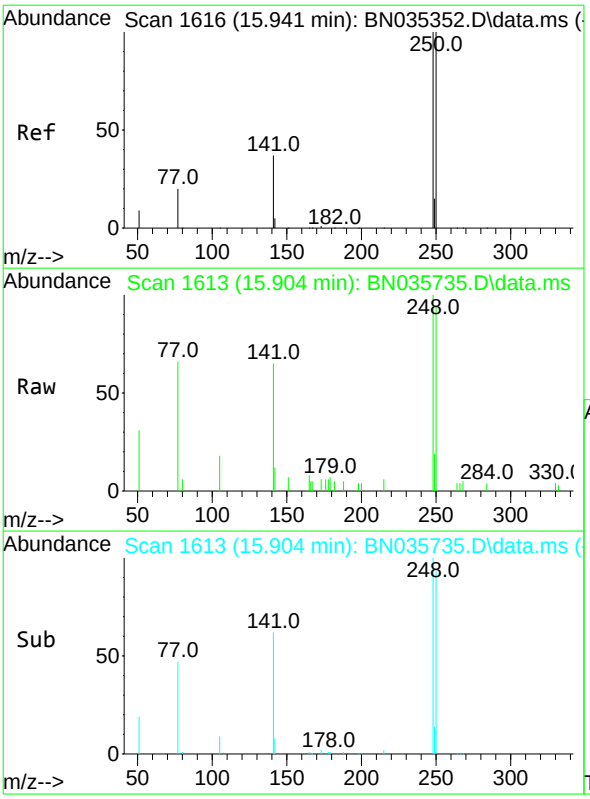


#20
4,6-Dinitro-2-methylphenol
Concen: 0.100 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	220.2	46.5	69.7#
105	150.0	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 16
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

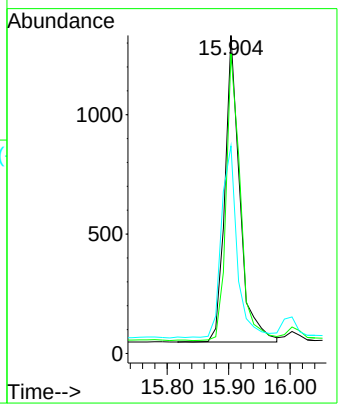
Tgt Ion:248 Resp: 2167

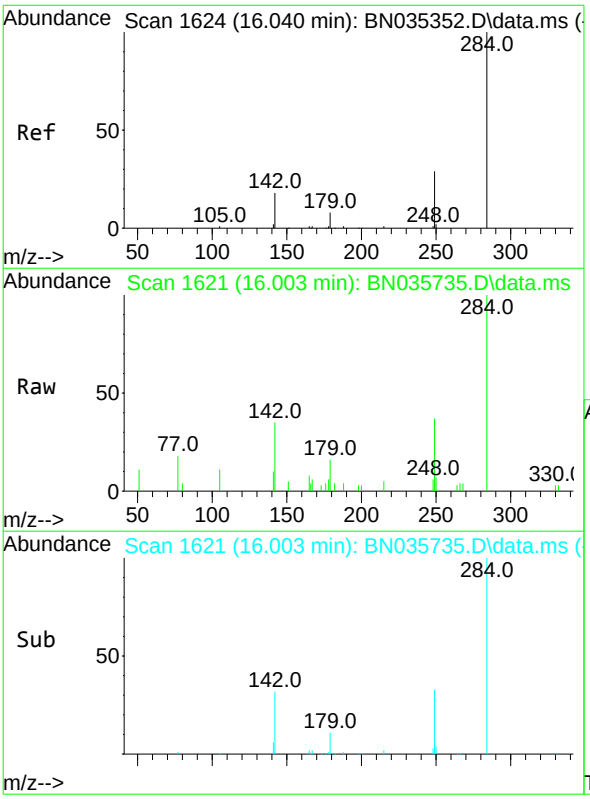
Ion	Ratio	Lower	Upper
248	100		
250	94.2	80.6	120.8
141	65.2	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

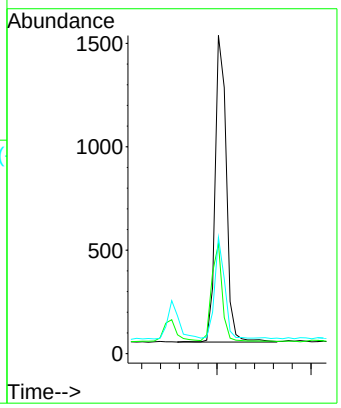


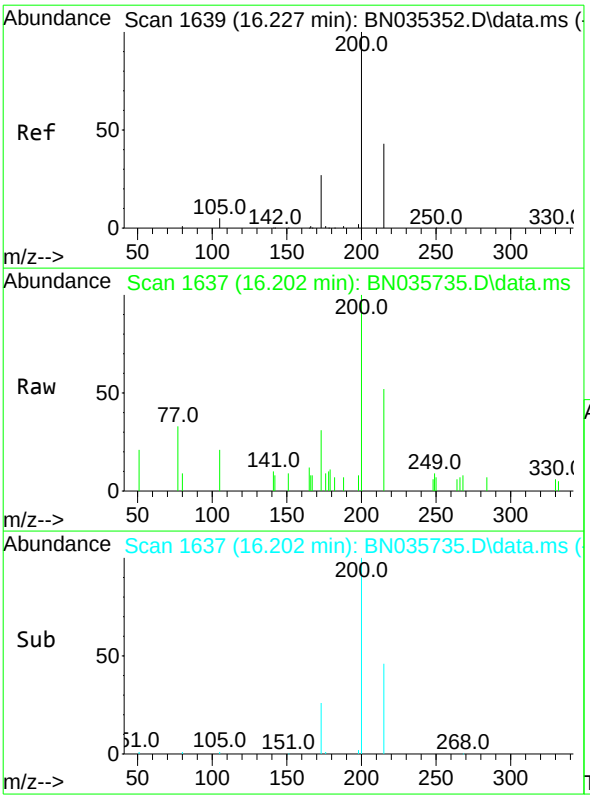


#22
Hexachlorobenzene
Concen: 0.339 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:284 Resp: 2445

Ion	Ratio	Lower	Upper
284	100		
142	30.1	26.7	40.1
249	29.0	24.6	36.8





#23
Atrazine
Concen: 0.288 ng
RT: 16.202 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

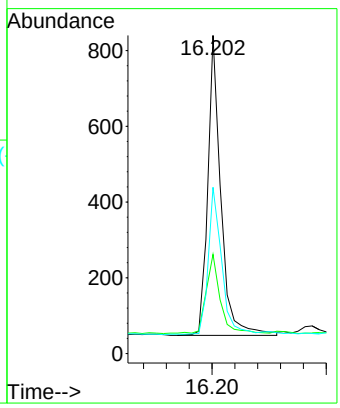
Tgt Ion:200 Resp: 1259

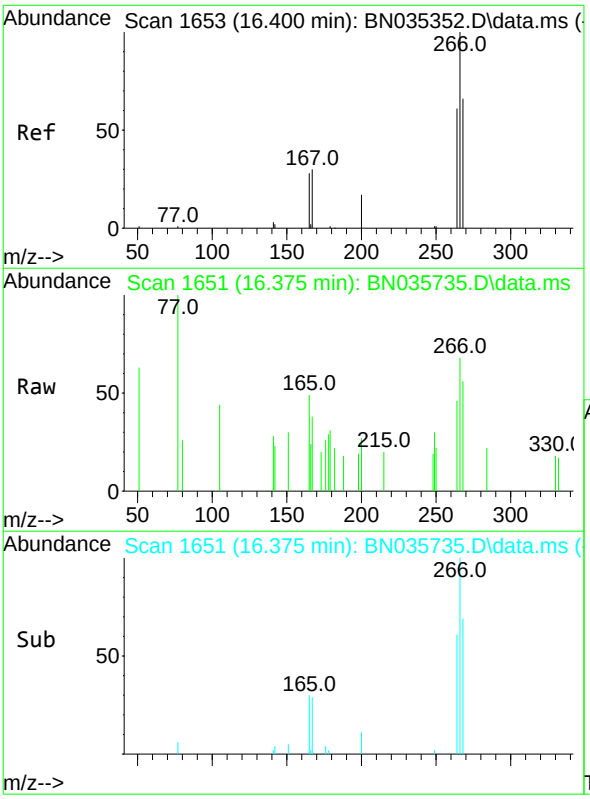
Ion	Ratio	Lower	Upper
200	100		
173	31.2	24.1	36.1
215	52.3	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

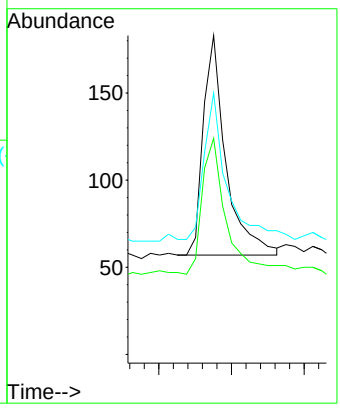


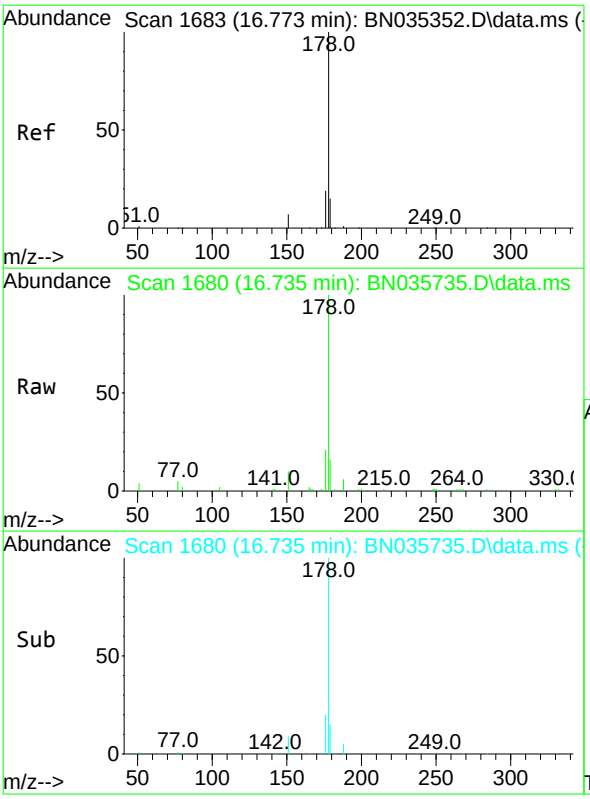


#24
Pentachlorophenol
Concen: 0.087 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:266 Resp: 273

Ion	Ratio	Lower	Upper
266	100		
264	65.9	42.3	63.5#
268	70.7	43.3	64.9#

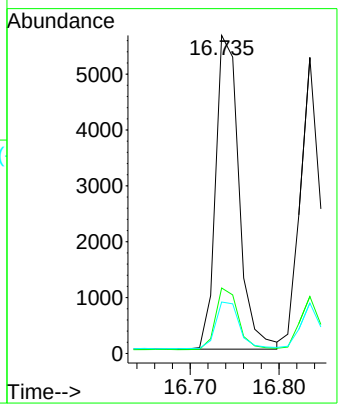




#25
Phenanthrene
Concen: 0.356 ng
RT: 16.735 min Scan# 16
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:178 Resp: 10260

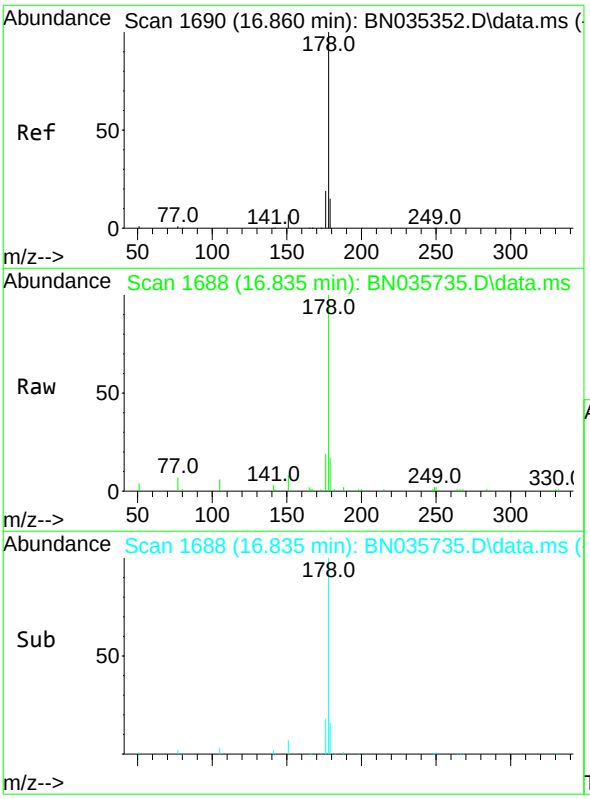
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

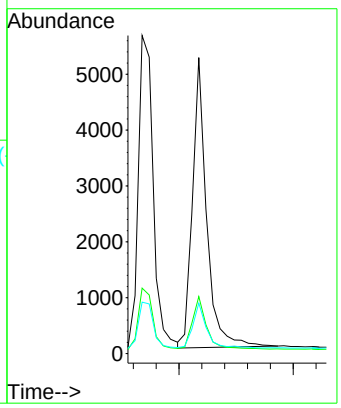
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

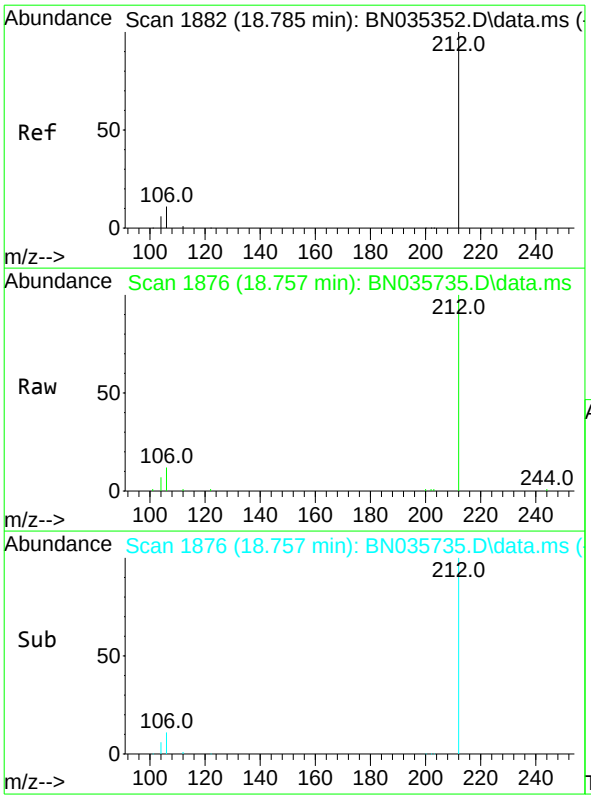


#26
Anthracene
Concen: 0.342 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:178 Resp: 8925

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8





#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 18.757 min Scan# 18
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

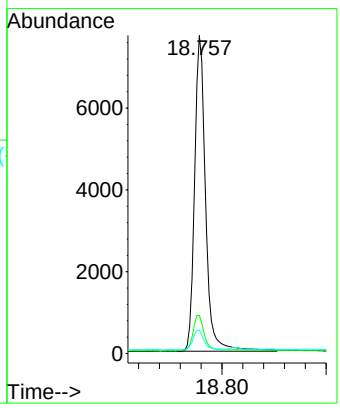
Tgt Ion:212 Resp: 11313

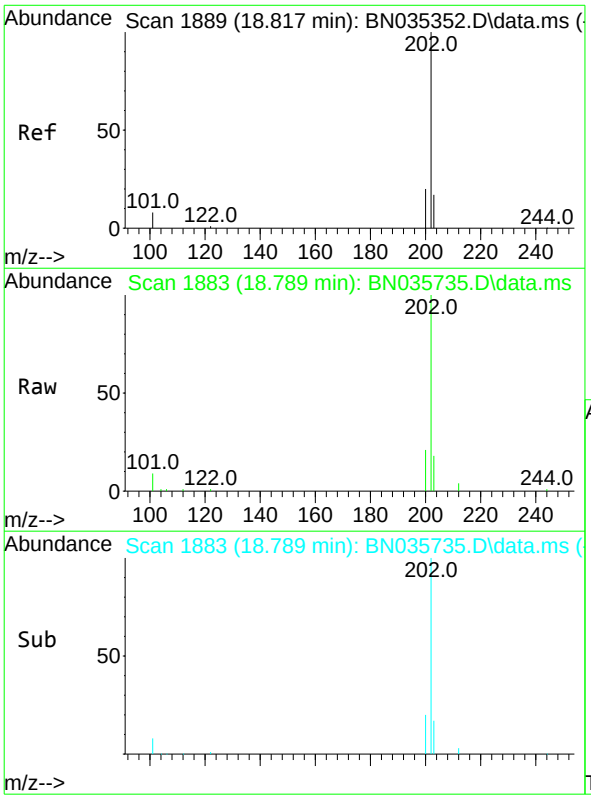
Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.1	5.3	7.9

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

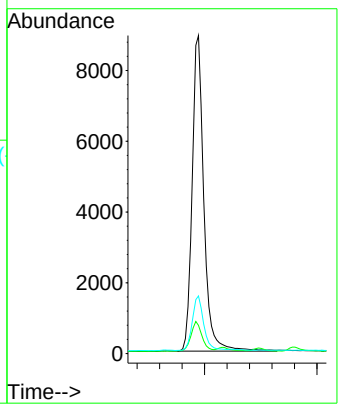


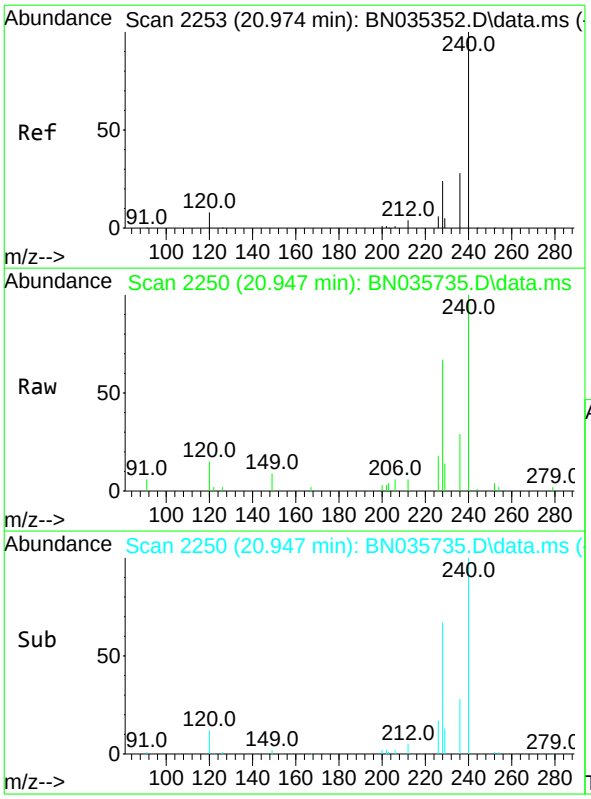


#28
Fluoranthene
Concen: 0.332 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:202 Resp: 12930

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	16.8	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 22
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

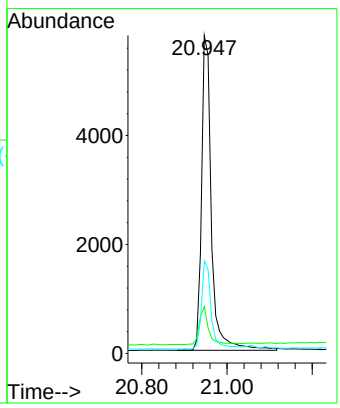
Tgt Ion:240 Resp: 9278

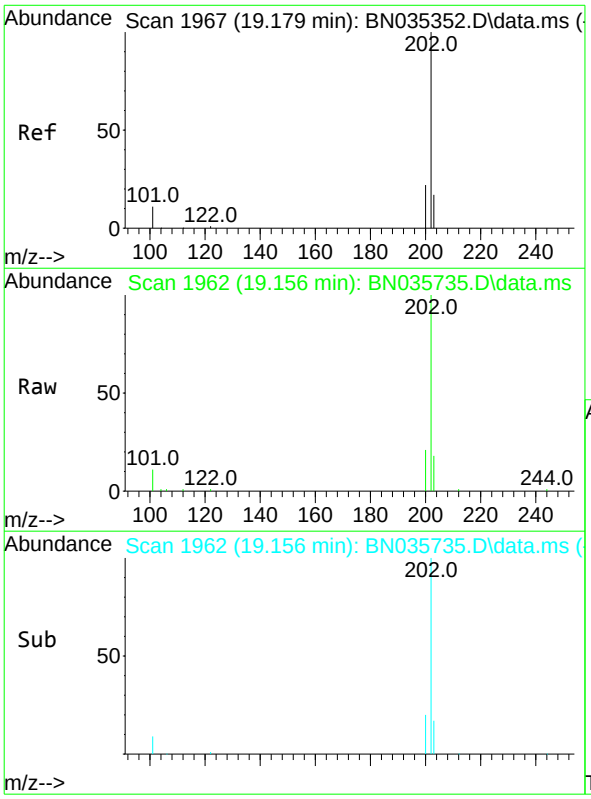
Ion	Ratio	Lower	Upper
240	100		
120	14.8	7.9	11.9#
236	29.1	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

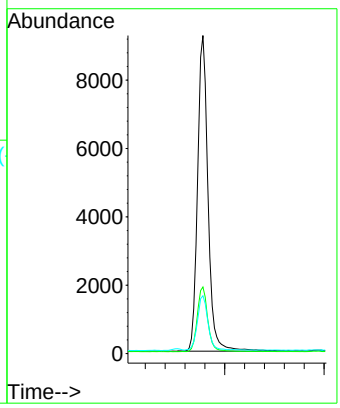


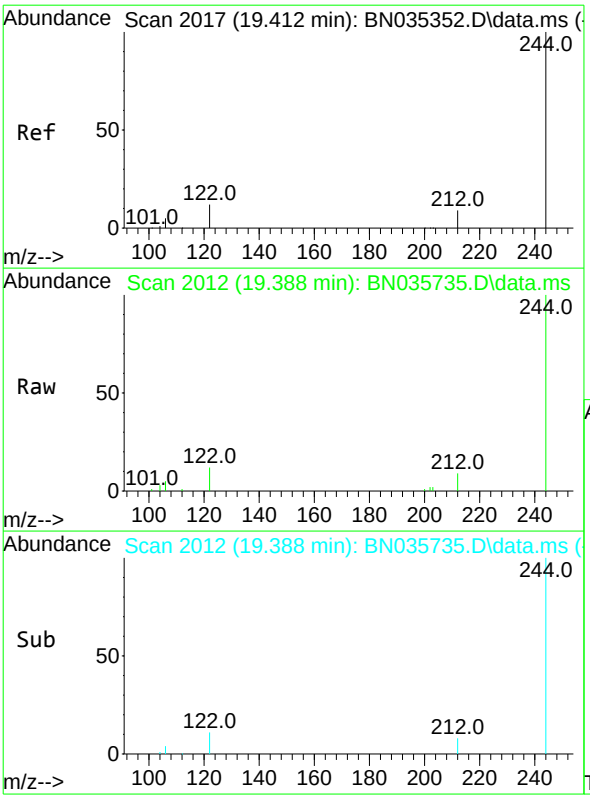


#30
Pyrene
Concen: 0.394 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:202 Resp: 13495

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	17.6	14.3	21.5





#31
Terphenyl-d14
Concen: 0.488 ng
RT: 19.388 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

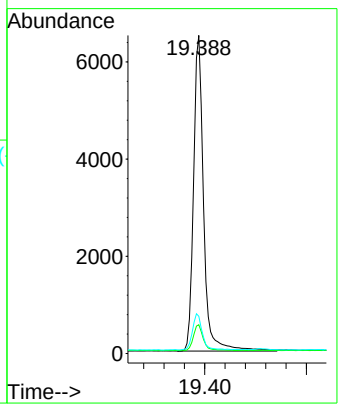
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

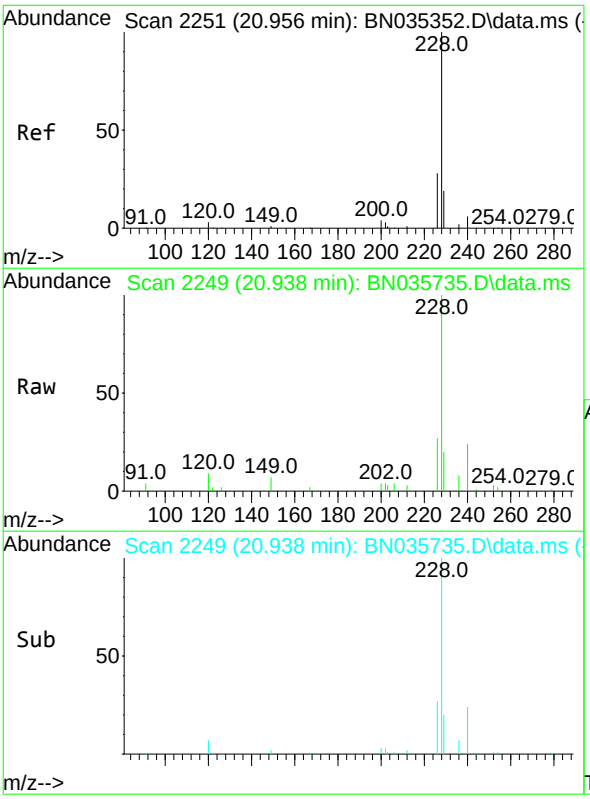
Tgt Ion:244 Resp: 8932

Ion	Ratio	Lower	Upper
244	100		
212	9.0	8.1	12.1
122	11.7	10.3	15.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

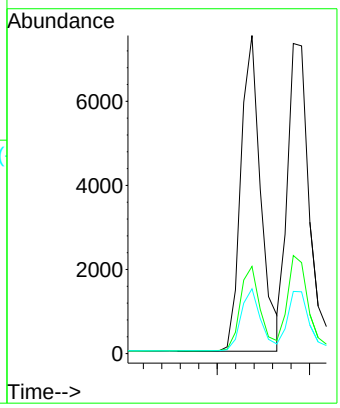


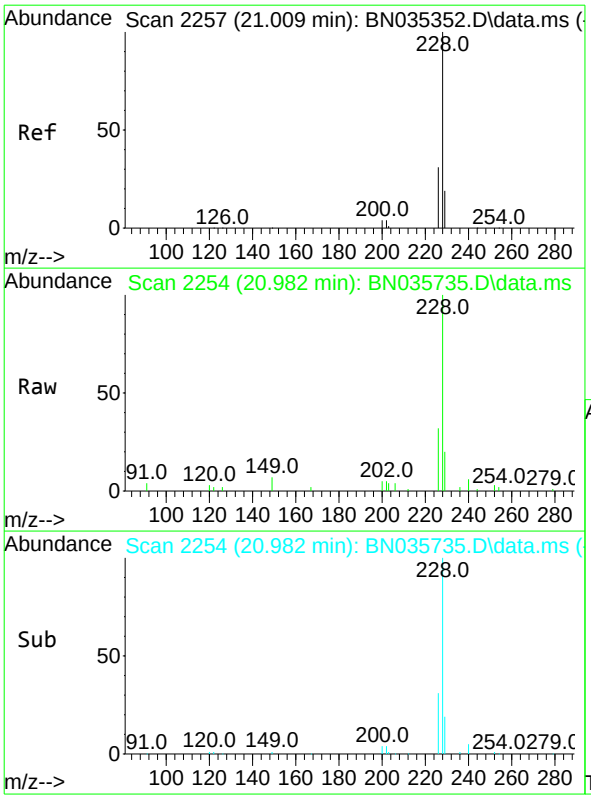


#32
Benzo(a)anthracene
Concen: 0.348 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:228 Resp: 11302

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.5	33.7
229	20.4	15.8	23.8





#33
Chrysene
Concen: 0.378 ng
RT: 20.982 min Scan# 22
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

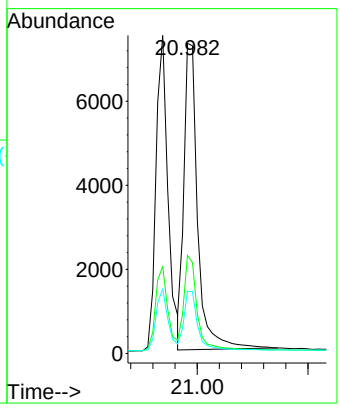
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

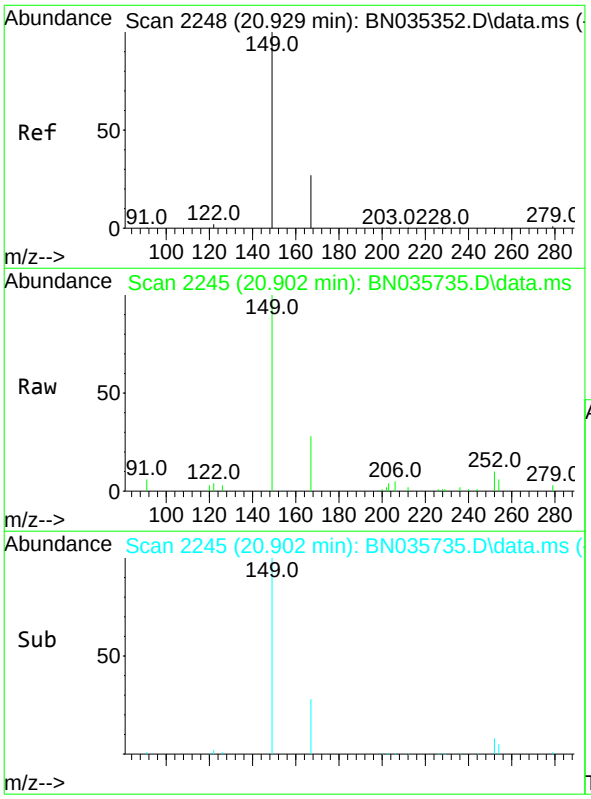
Tgt Ion:228 Resp: 12637

Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.6	37.0
229	20.1	15.9	23.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

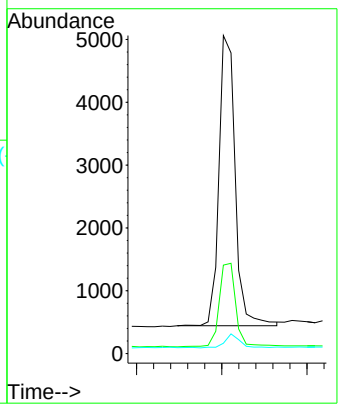


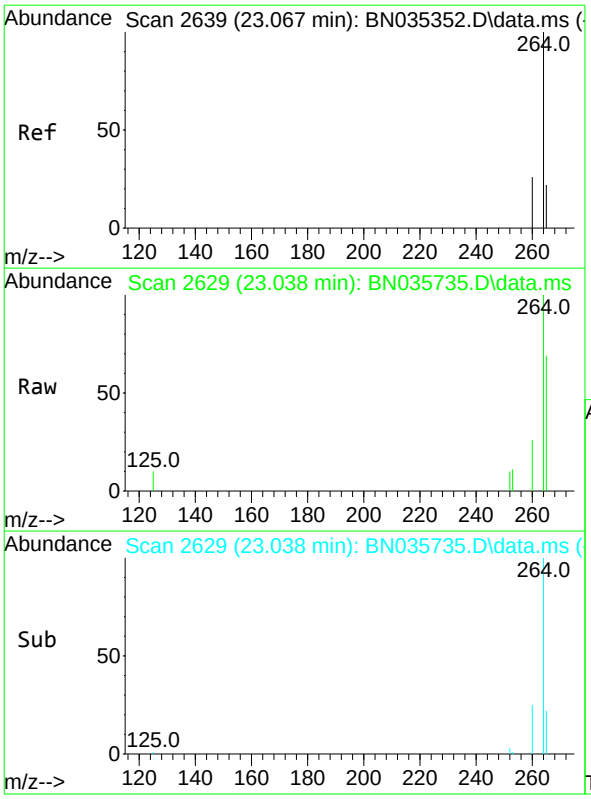


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:149 Resp: 6113

Ion	Ratio	Lower	Upper
149	100		
167	29.6	22.2	33.4
279	4.4	2.7	4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 26
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

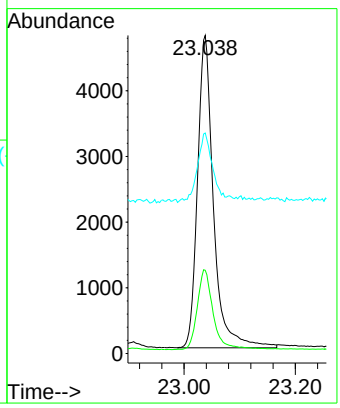
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

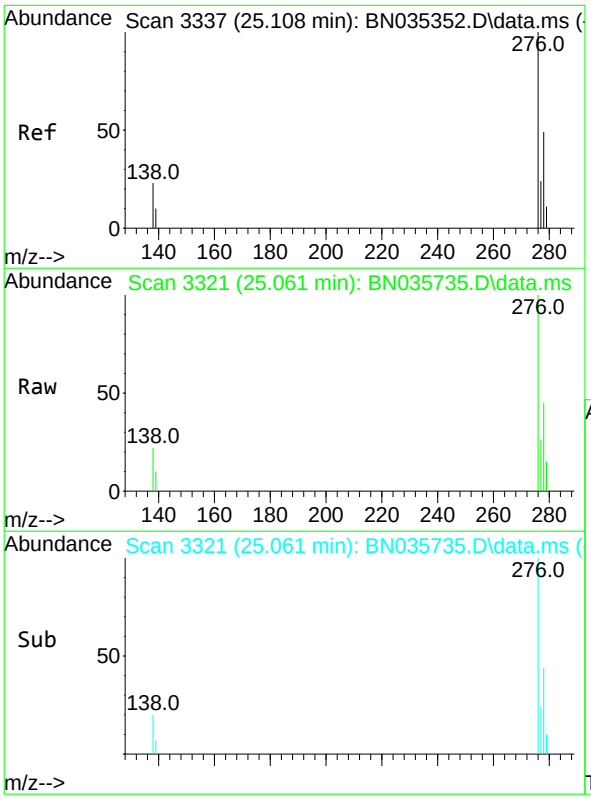
Tgt Ion:264 Resp: 9467

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	69.3	40.2	60.4#

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

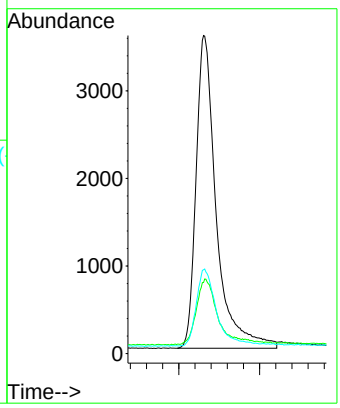


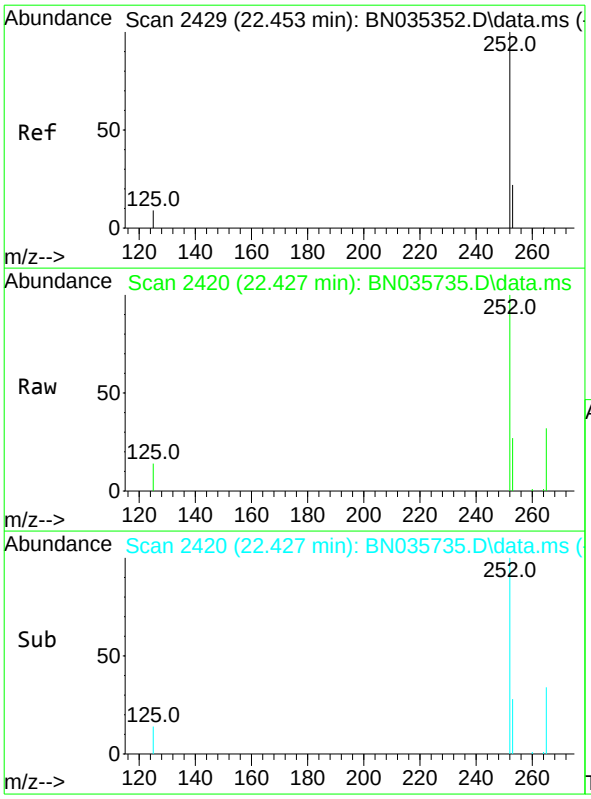


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:276 Resp: 12412

Ion	Ratio	Lower	Upper
276	100		
138	21.0	19.4	29.0
277	24.4	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.536 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

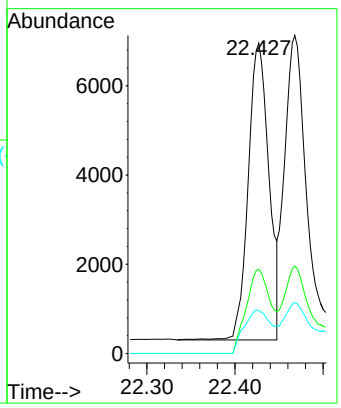
Tgt Ion:252 Resp: 18573

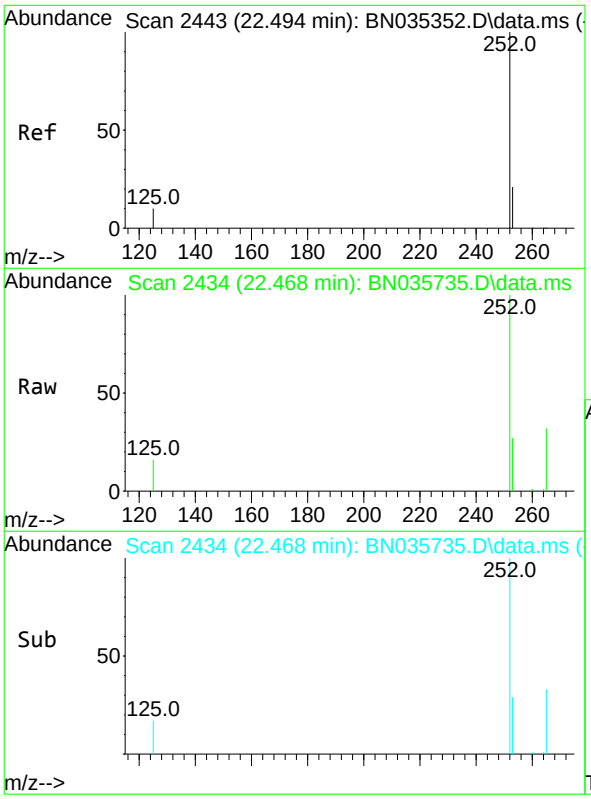
Ion	Ratio	Lower	Upper
252	100		
253	27.2	19.6	29.4
125	13.8	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

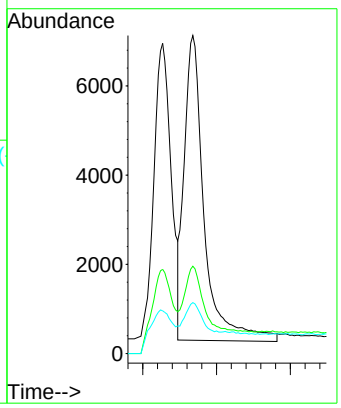


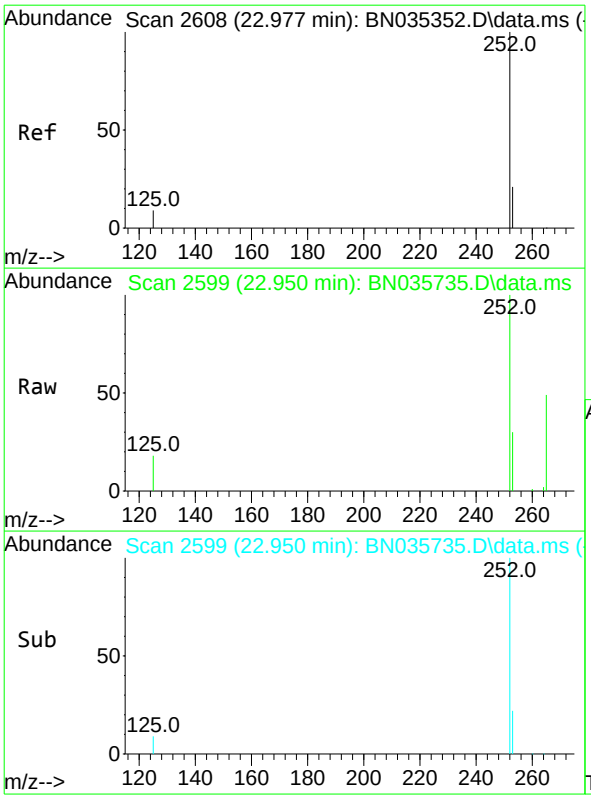


#38
Benzo(k)fluoranthene
Concen: 0.378 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:252 Resp: 12887

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.5	29.3
125	16.0	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.326 ng
RT: 22.950 min Scan# 25
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

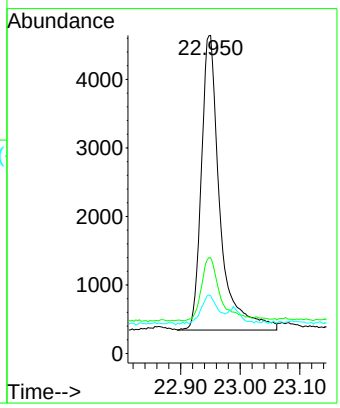
Tgt Ion:252 Resp: 9310

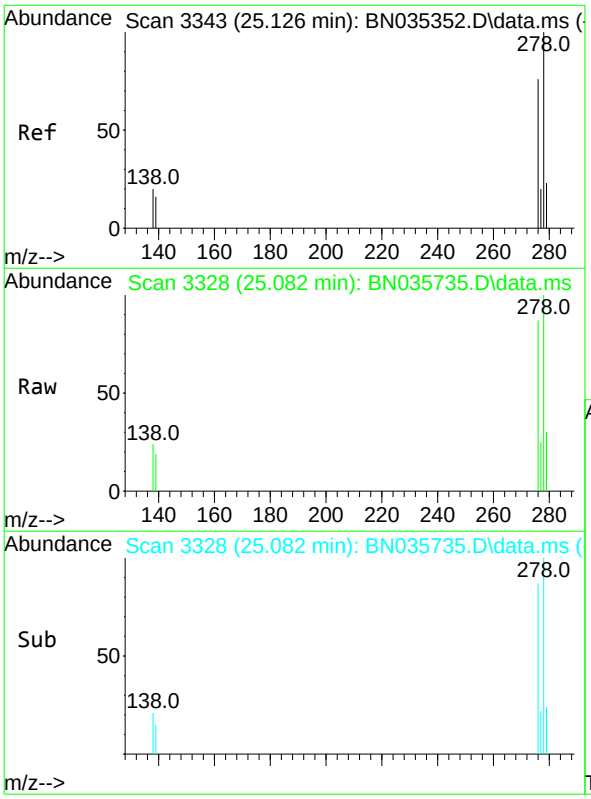
Ion	Ratio	Lower	Upper
252	100		
253	30.1	20.2	30.4
125	18.2	10.9	16.3#

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

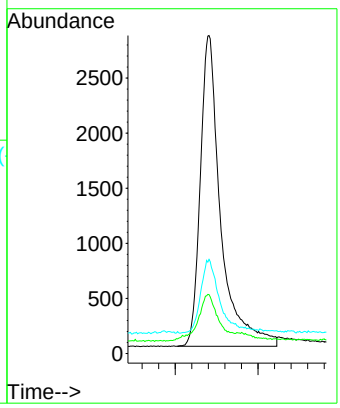


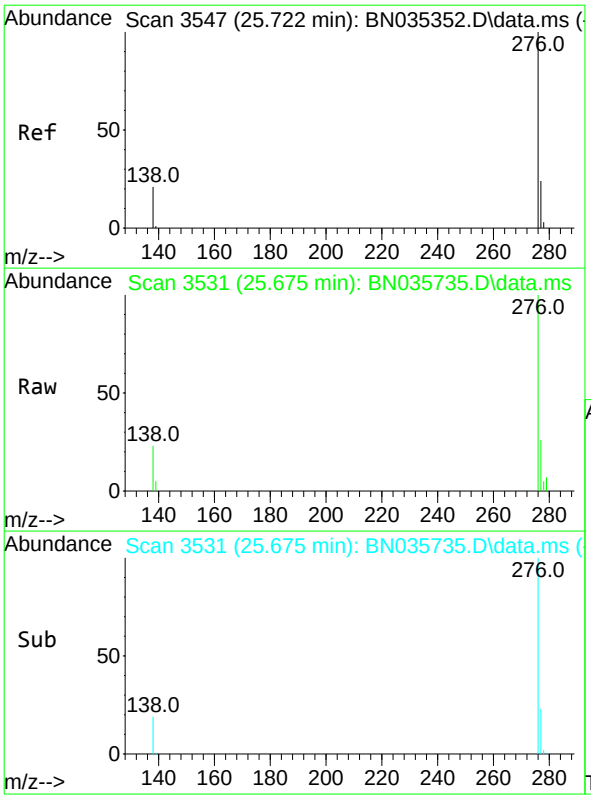


#40
Dibenzo(a,h)anthracene
Concen: 0.331 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:278 Resp: 9663

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.2	21.4
279	29.6	20.5	30.7

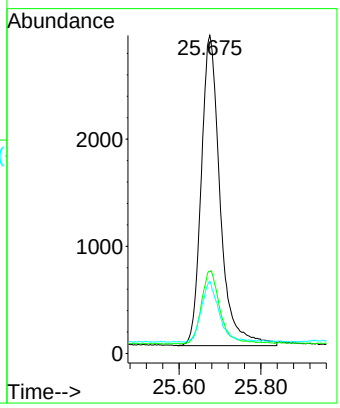




#41
Benzo(g,h,i)perylene
Concen: 0.305 ng
RT: 25.675 min Scan# 35
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:276 Resp: 9301

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	22.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Raw Data: **BN035736.D**

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW6-11-20241212MSD	SDG No.:	P5281
Lab Sample ID:	P5280-05MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035736.D	1	12/16/24 11:30	12/20/24 11:41	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.55		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3360	7.272				
1146-65-2	Naphthalene-d8	9240	10.009				
15067-26-2	Acenaphthene-d10	5770	13.924				
1517-22-2	Phenanthrene-d10	12100	16.698				
1719-03-5	Chrysene-d12	11000	20.947				
1520-96-3	Perylene-d12	11400	23.038				

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

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

Sample Results: **BN035736.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035736.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : P5280-05MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 20 12:27:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.272	152	3357	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	9243	0.400	ng		-0.01
13) Acenaphthene-d10	13.924	164	5773	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	12117	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	11029	0.400	ng		# 0.00
35) Perylene-d12	23.038	264	11370	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.939	112	942	0.112	ng		0.00
5) Phenol-d6	6.484	99	701	0.069	ng		0.00
8) Nitrobenzene-d5	8.408	82	2003m	0.355	ng		0.00
11) 2-Methylnaphthalene-d10	11.615	152	4592	0.317	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	754	0.184	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	6026	0.276	ng		0.00
27) Fluoranthene-d10	18.757	212	13288	0.387	ng		0.00
31) Terphenyl-d14	19.388	244	10572	0.486	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1749	0.545	ng	#	90
3) n-Nitrosodimethylamine	3.278	42	394	0.147	ng	#	89
6) bis(2-Chloroethyl)ether	6.723	93	2407	0.284	ng		99
9) Naphthalene	10.063	128	6583	0.270	ng		99
10) Hexachlorobutadiene	10.351	225	924	0.164	ng	#	99
12) 2-Methylnaphthalene	11.692	142	4392	0.252	ng		98
16) Acenaphthylene	13.636	152	7346	0.303	ng		99
17) Acenaphthene	13.989	154	4688	0.291	ng		98
18) Fluorene	14.993	166	6437	0.279	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	141	0.118	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2466	0.348	ng	#	82
22) Hexachlorobenzene	16.003	284	2768	0.333	ng		95
23) Atrazine	16.202	200	1444	0.286	ng		96
24) Pentachlorophenol	16.375	266	361	0.100	ng		92
25) Phenanthrene	16.735	178	11782	0.354	ng		99
26) Anthracene	16.835	178	10189	0.338	ng		99
28) Fluoranthene	18.789	202	15192	0.339	ng		99
30) Pyrene	19.156	202	15901	0.391	ng		99
32) Benzo(a)anthracene	20.938	228	13511	0.350	ng		98
33) Chrysene	20.991	228	15009	0.377	ng		98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7279	0.478	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.061	276	14877	0.335	ng		98
37) Benzo(b)fluoranthene	22.427	252	21467	0.516	ng		97
38) Benzo(k)fluoranthene	22.468	252	15196m	0.371	ng		
39) Benzo(a)pyrene	22.950	252	11175	0.326	ng		93
40) Dibenzo(a,h)anthracene	25.079	278	11466	0.327	ng		97
41) Benzo(g,h,i)perylene	25.675	276	11017	0.301	ng		99

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

Sample Results: **BN035736.D**

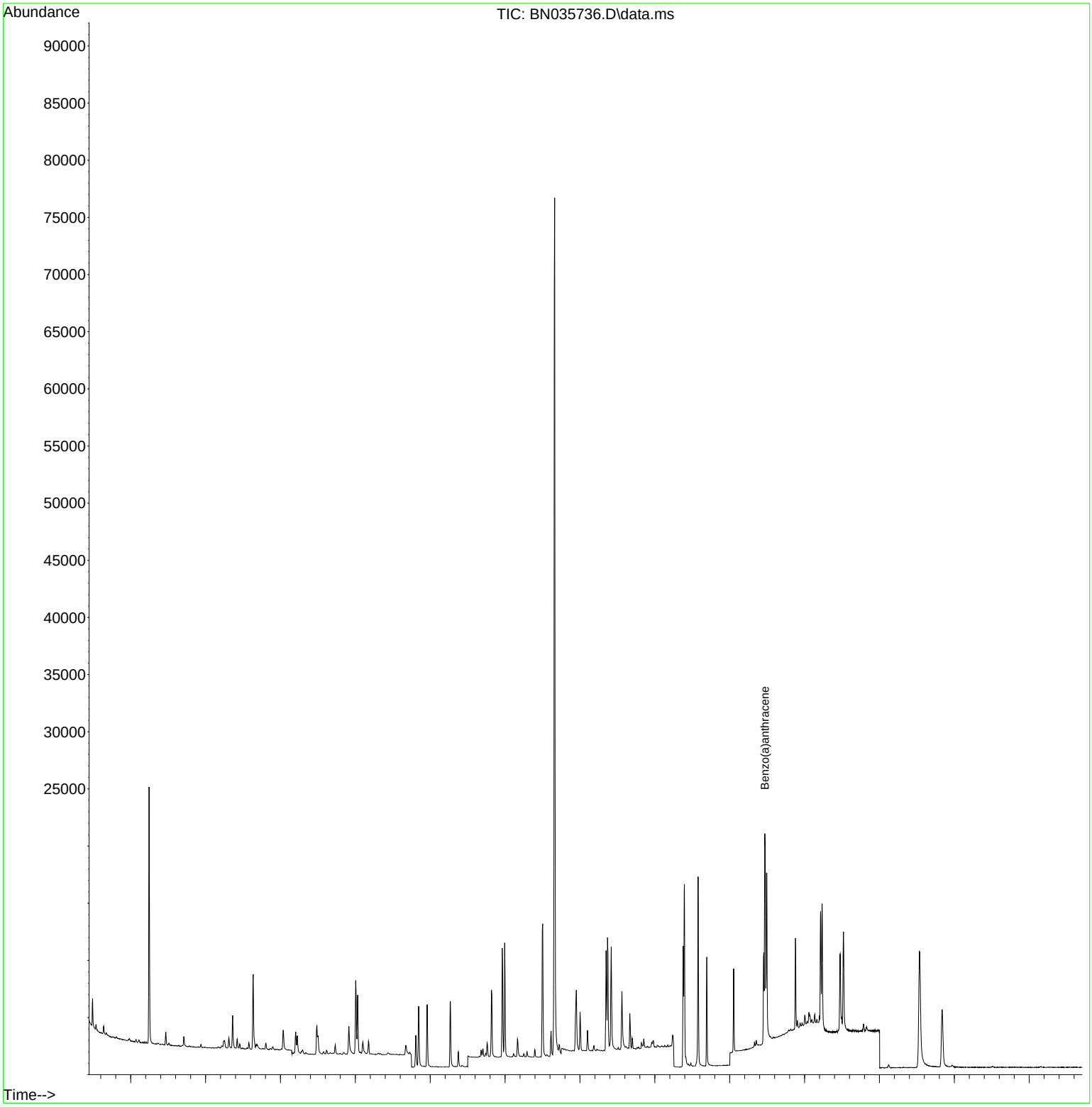
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035736.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : P5280-05MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

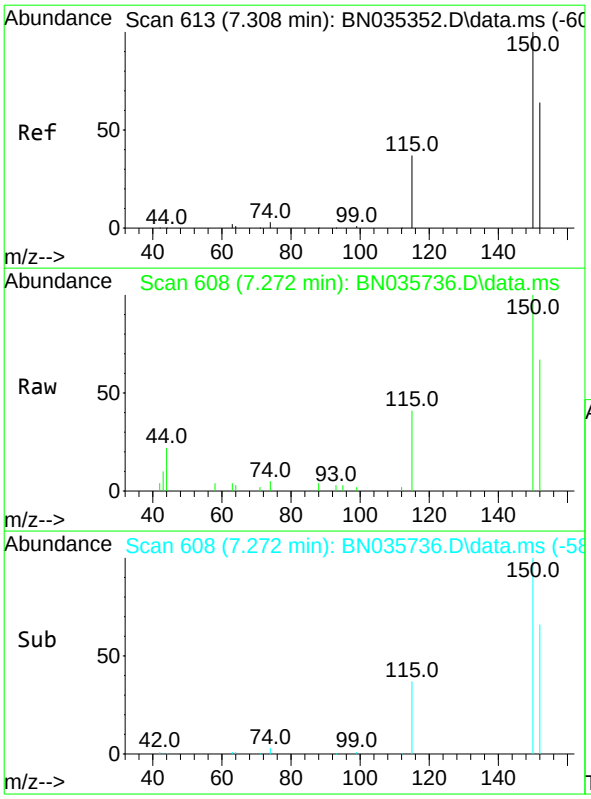
Quant Time: Dec 20 12:27:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

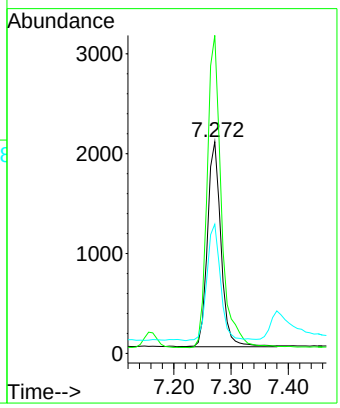




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 60
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:152 Resp: 3357

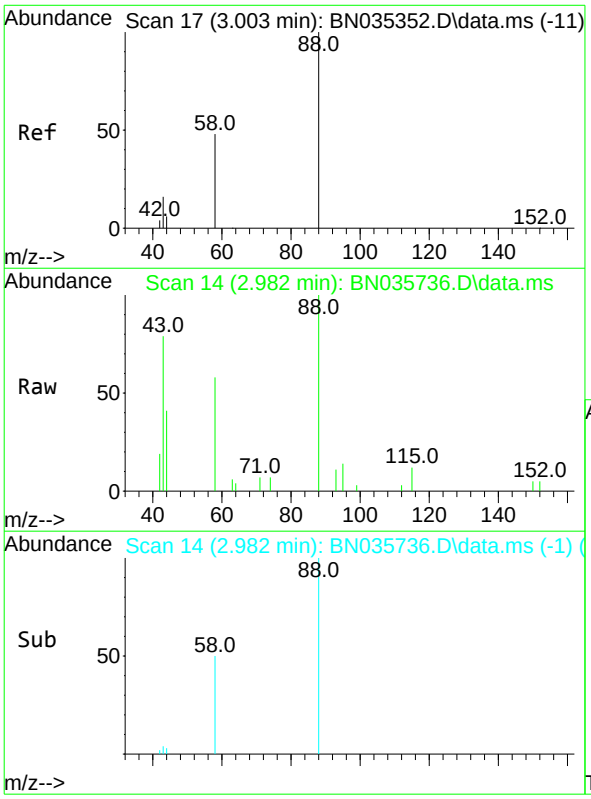
Ion	Ratio	Lower	Upper
152	100		
150	150.3	124.0	186.0
115	61.1	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

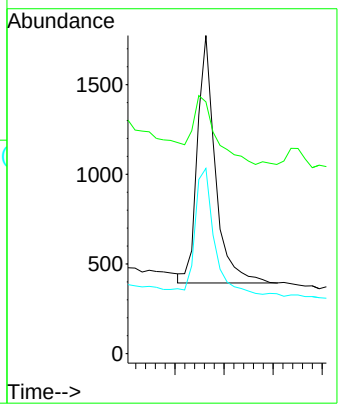
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

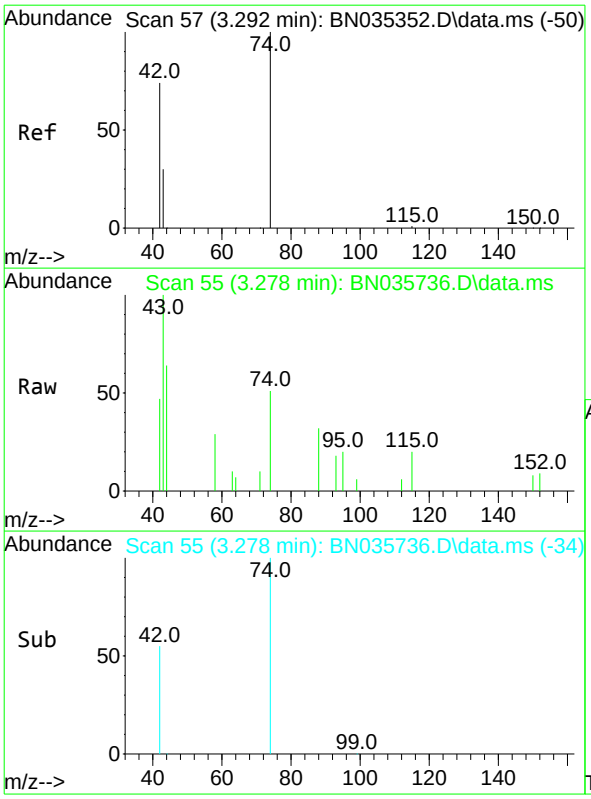


#2
1,4-Dioxane
Concen: 0.545 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 88 Resp: 1749

Ion	Ratio	Lower	Upper
88	100		
43	34.9	17.2	25.8#
58	53.4	44.5	66.7

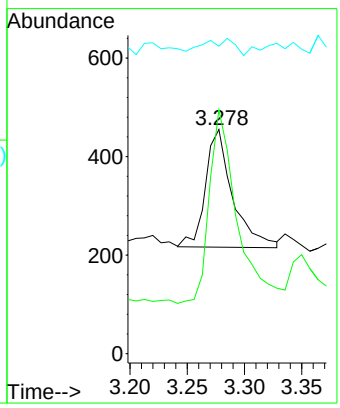




#3
n-Nitrosodimethylamine
Concen: 0.147 ng
RT: 3.278 min Scan# 55
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 42 Resp: 394

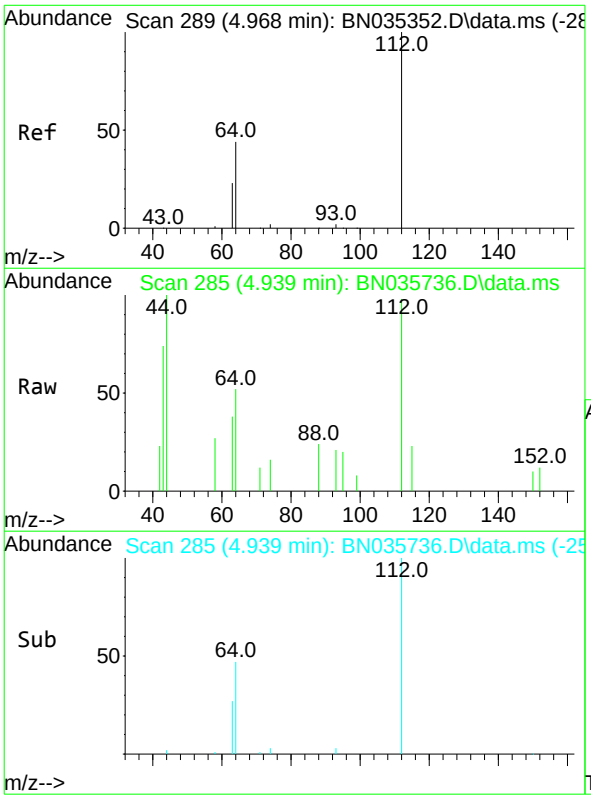
Ion	Ratio	Lower	Upper
42	100		
74	169.8	124.9	187.3
44	16.0	2.2	3.4#



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

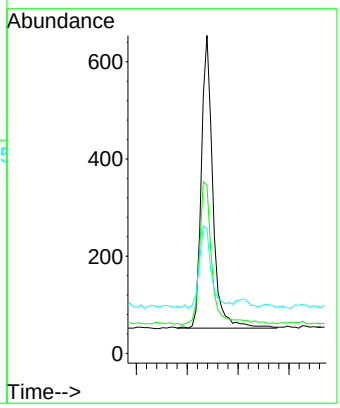
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

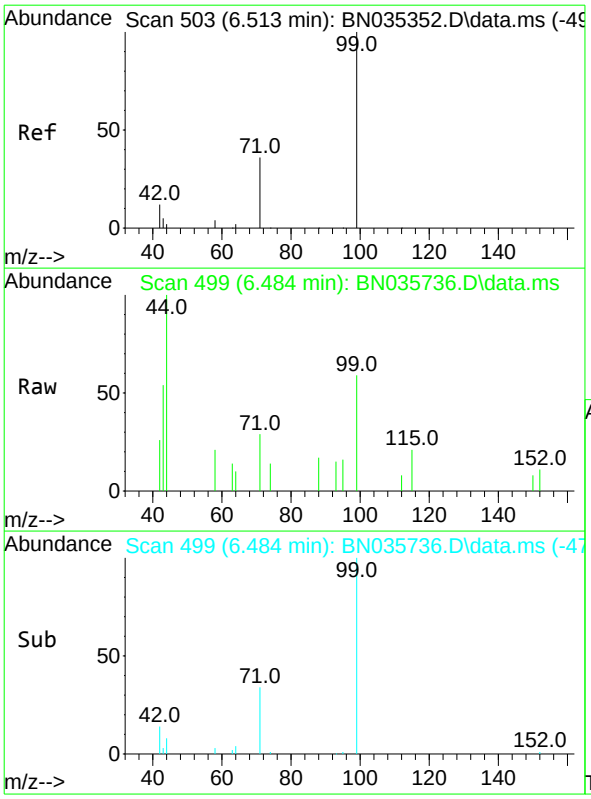


#4
2-Fluorophenol
Concen: 0.112 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:112 Resp: 942

Ion	Ratio	Lower	Upper
112	100		
64	54.1	39.8	59.8
63	29.4	21.0	31.6





#5
Phenol-d6
Concen: 0.069 ng
RT: 6.484 min Scan# 49
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

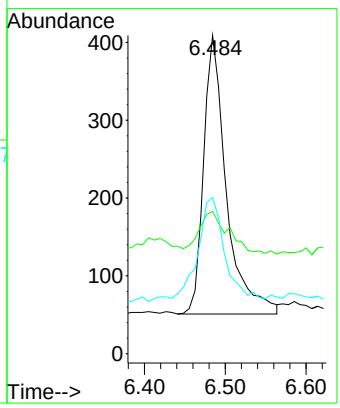
Tgt Ion: 99 Resp: 701

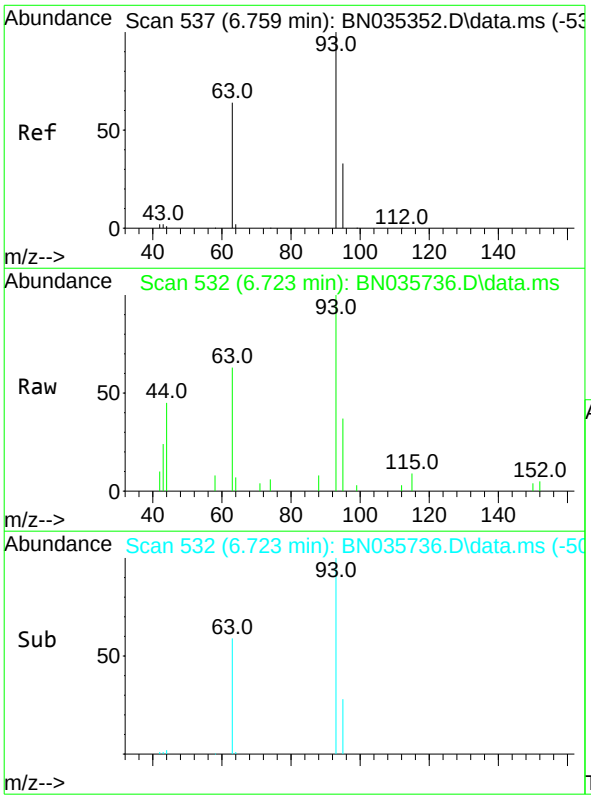
Ion	Ratio	Lower	Upper
99	100		
42	20.0	11.4	17.2#
71	45.9	29.3	43.9#

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

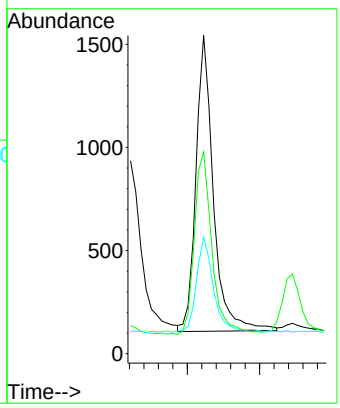


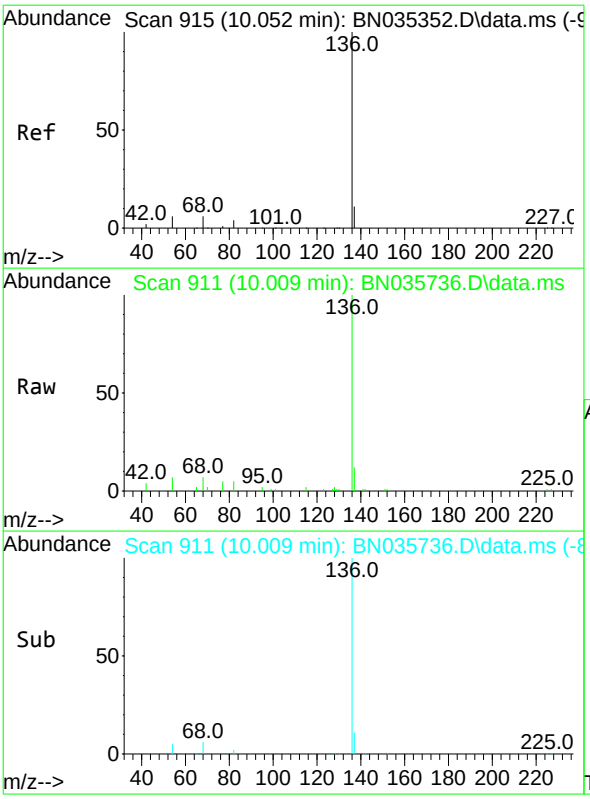


#6
bis(2-Chloroethyl)ether
Concen: 0.284 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 93 Resp: 2407

Ion	Ratio	Lower	Upper
93	100		
63	61.9	50.4	75.6
95	31.7	25.7	38.5

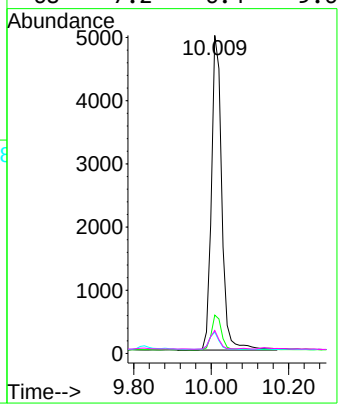




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:136 Resp: 9243

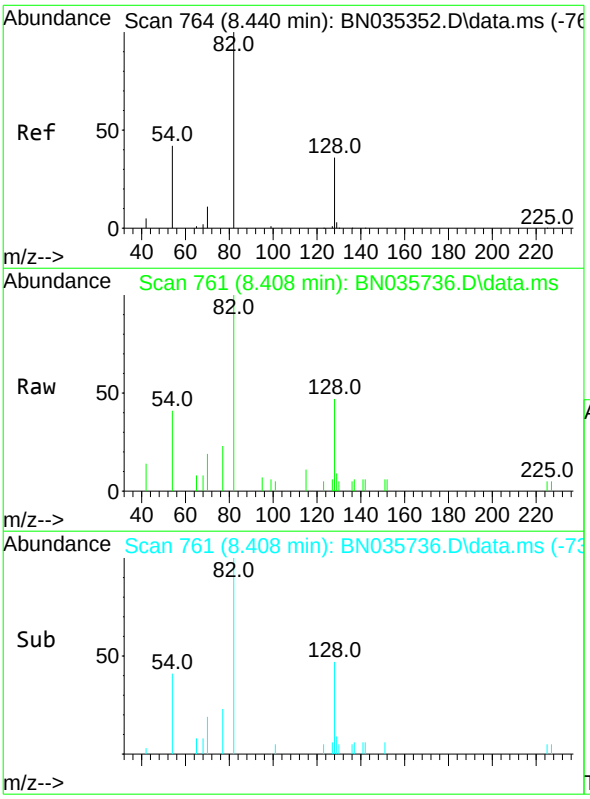
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.7	6.1	9.1
68	7.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

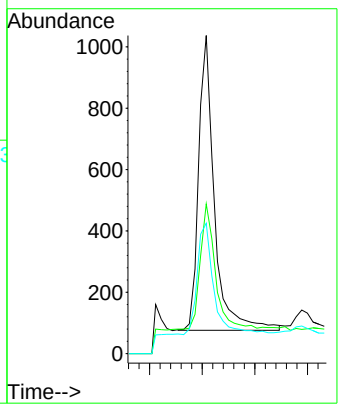
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

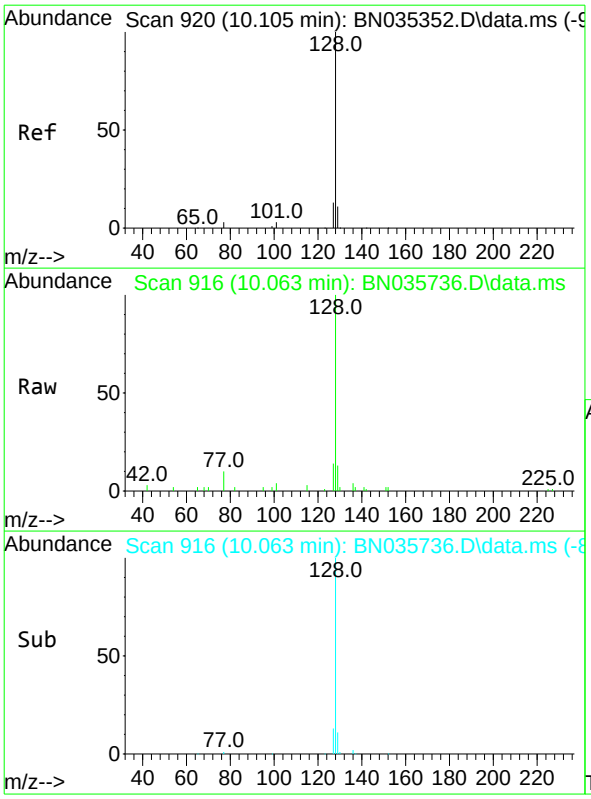


#8
Nitrobenzene-d5
Concen: 0.355 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 82 Resp: 2003

Ion	Ratio	Lower	Upper
82	100		
128	47.1	33.4	50.0
54	41.0	36.7	55.1





#9
Naphthalene
Concen: 0.270 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

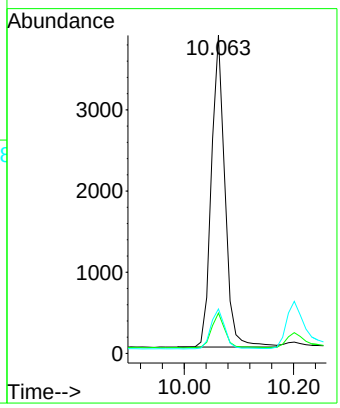
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

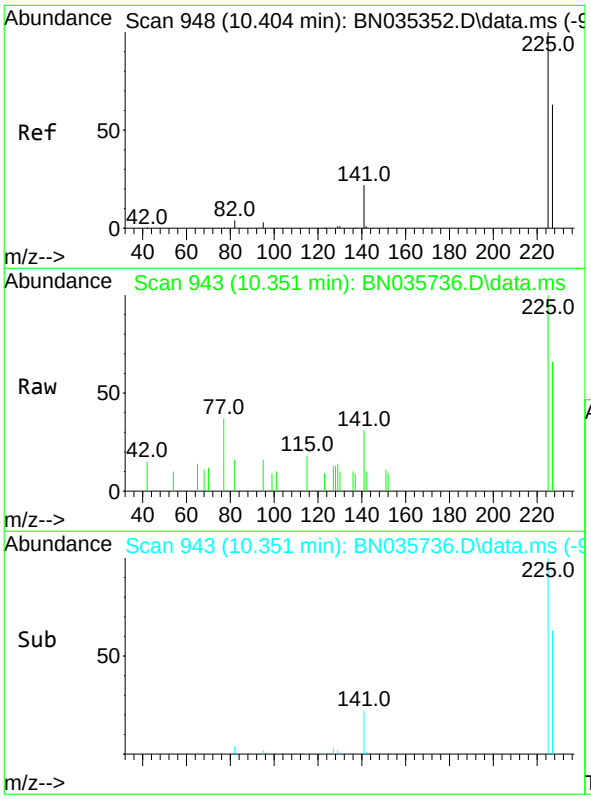
Tgt Ion:128 Resp: 6583

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	14.0	11.4	17.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

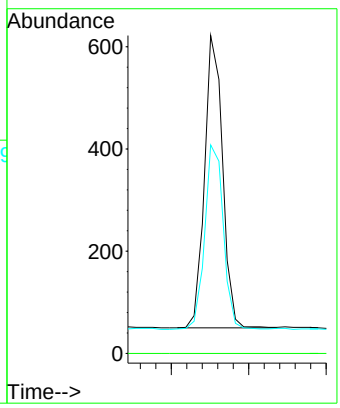


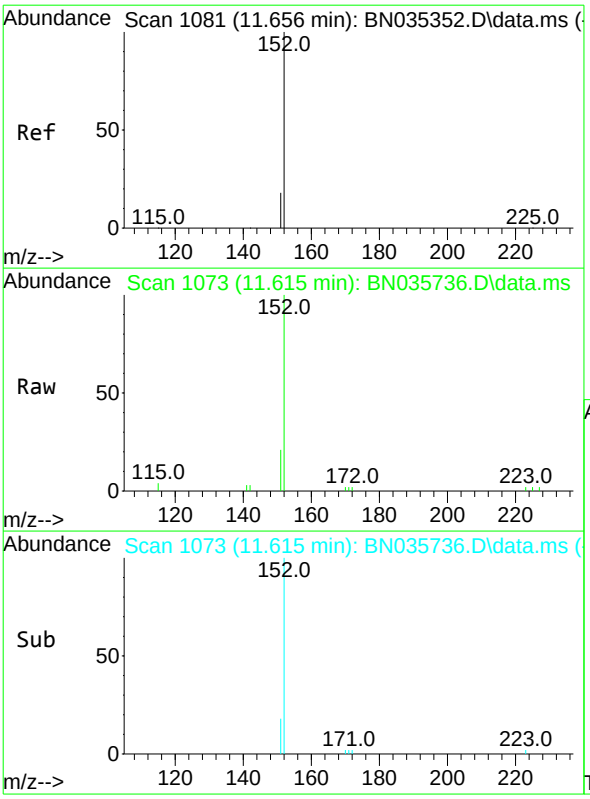


#10
Hexachlorobutadiene
Concen: 0.164 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:225 Resp: 924

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 11.615 min Scan# 10
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

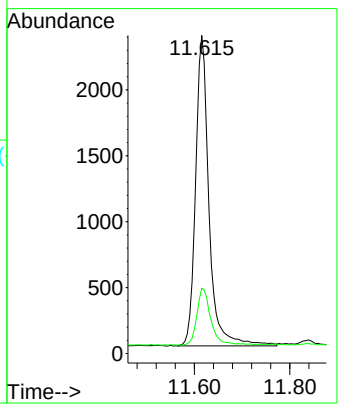
Tgt Ion:152 Resp: 4592

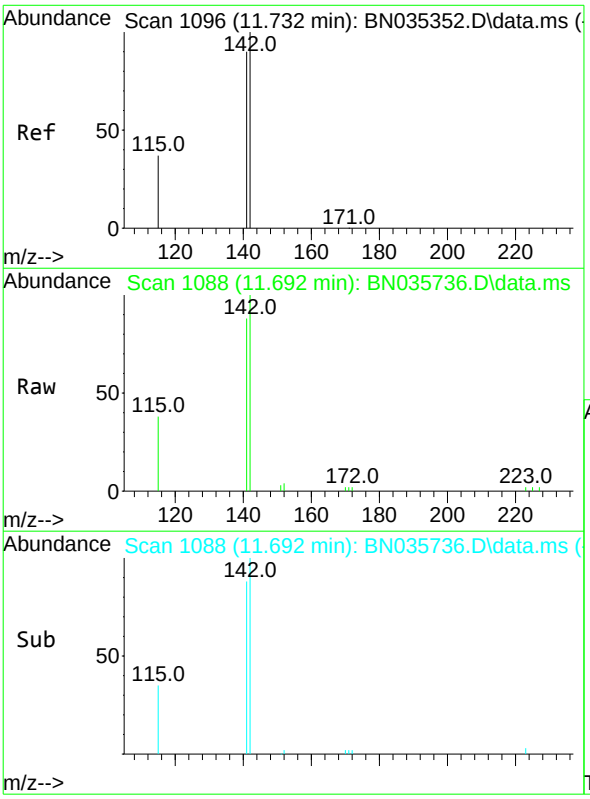
Ion	Ratio	Lower	Upper
152	100		
151	19.0	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

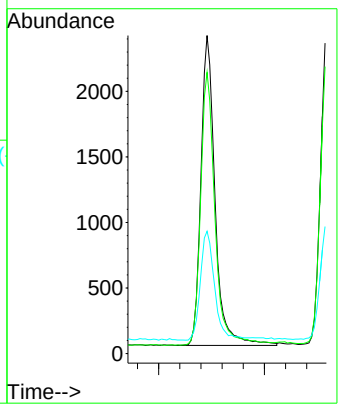


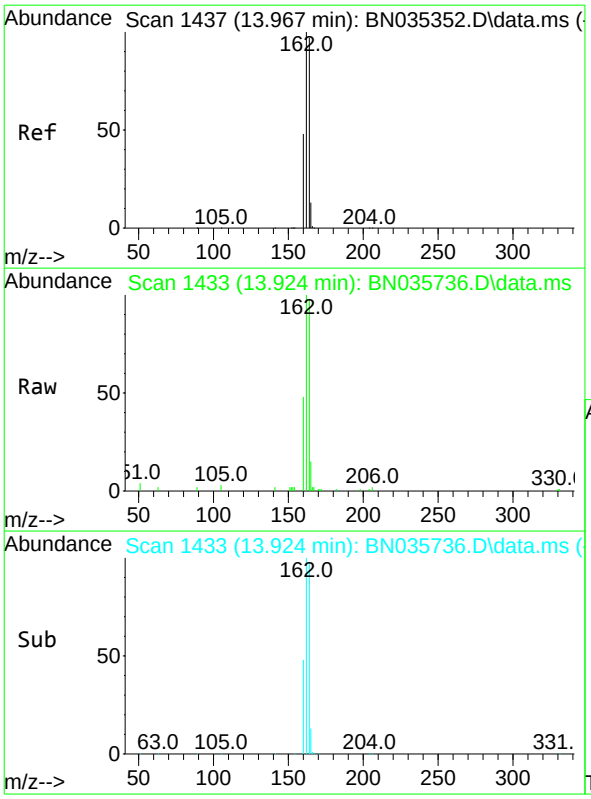


#12
2-Methylnaphthalene
Concen: 0.252 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:142 Resp: 4392

Ion	Ratio	Lower	Upper
142	100		
141	88.4	72.2	108.4
115	38.5	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

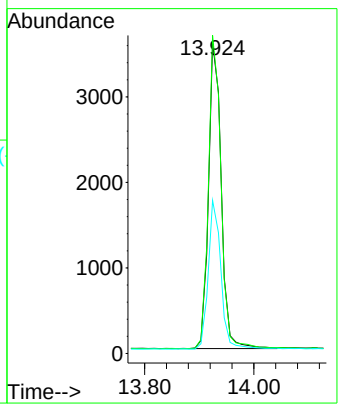
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

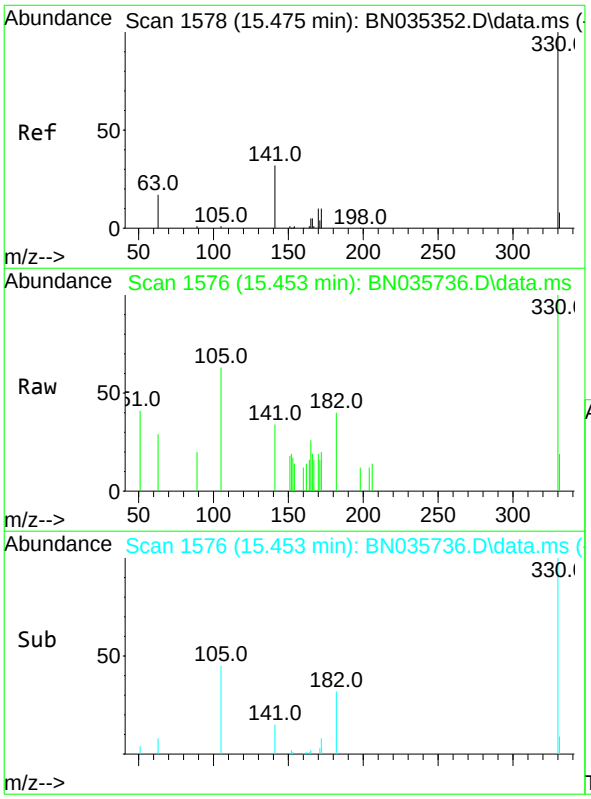
Tgt Ion:164 Resp: 5773

Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.2	123.2
160	49.3	40.1	60.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

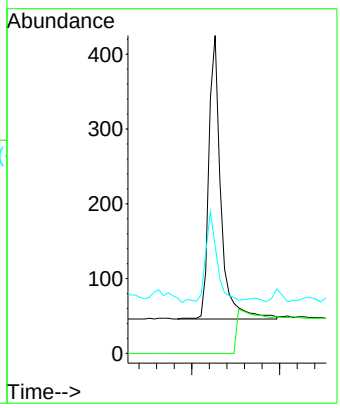


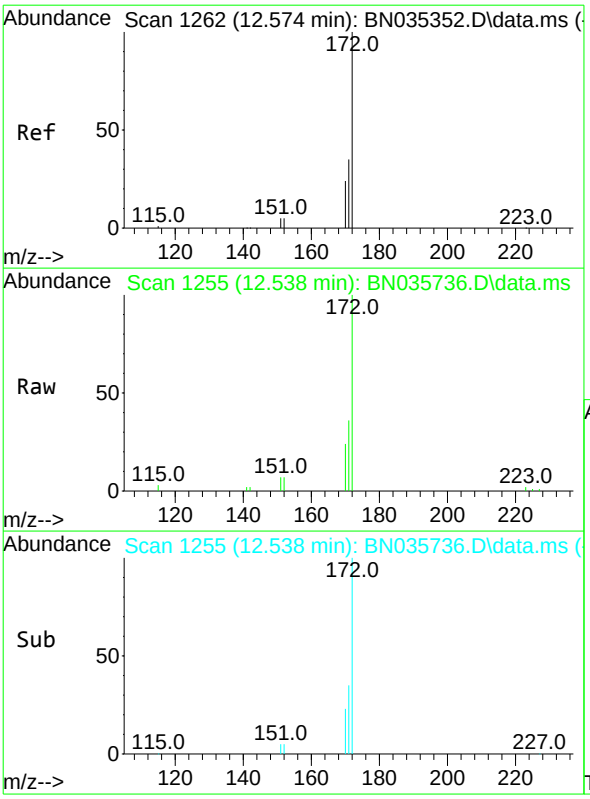


#14
2,4,6-Tribromophenol
Concen: 0.184 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:330 Resp: 754

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.5	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.276 ng
RT: 12.538 min Scan# 12
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

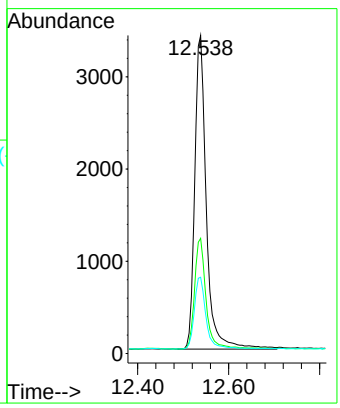
Tgt Ion:172 Resp: 6026

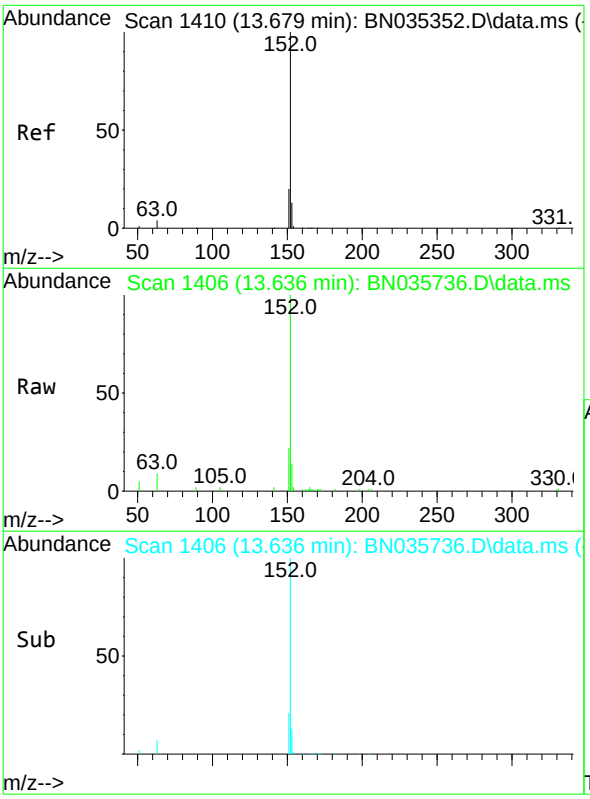
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.0	19.8	29.8

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

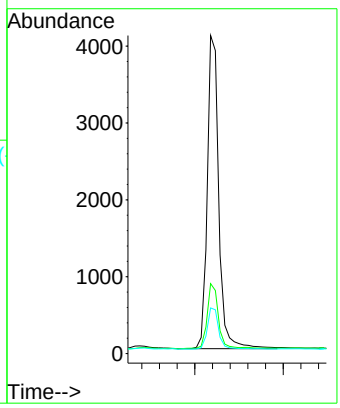


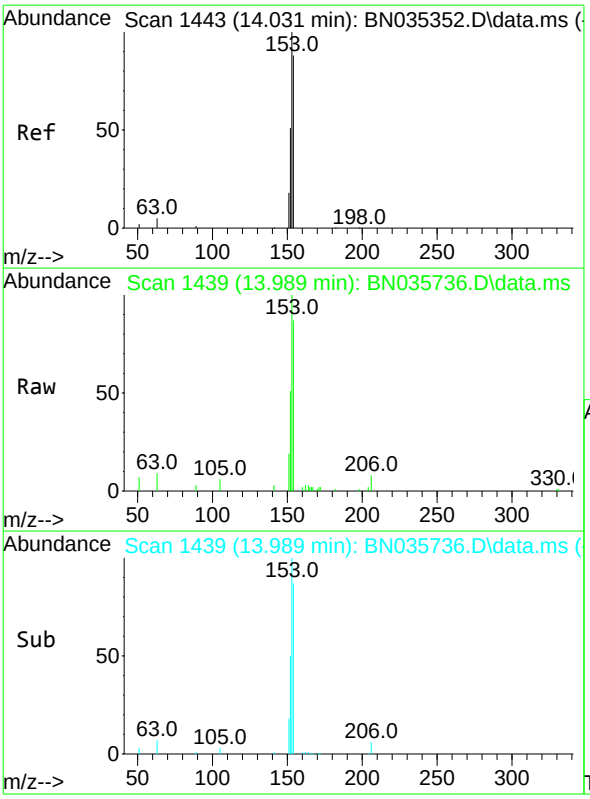


#16
Acenaphthylene
Concen: 0.303 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:152 Resp: 7346

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2
153	13.0	10.4	15.6

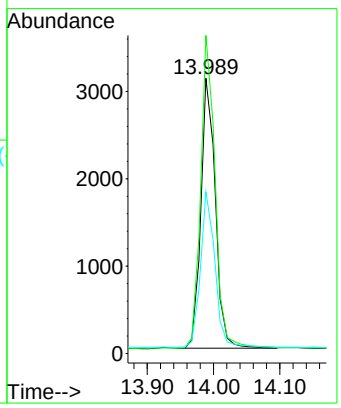




#17
Acenaphthene
Concen: 0.291 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:154 Resp: 4688

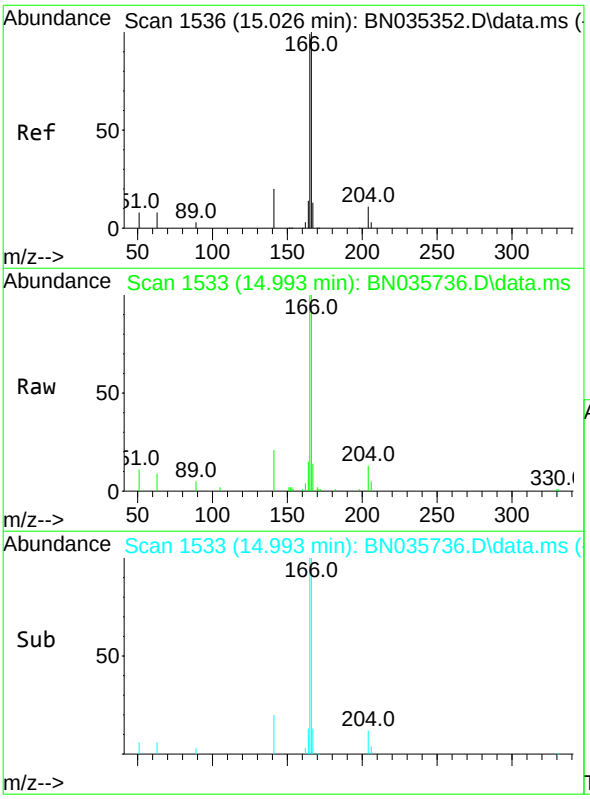
Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	58.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

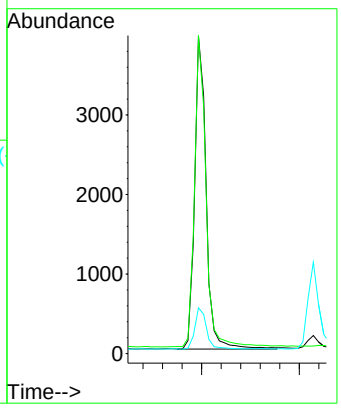
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

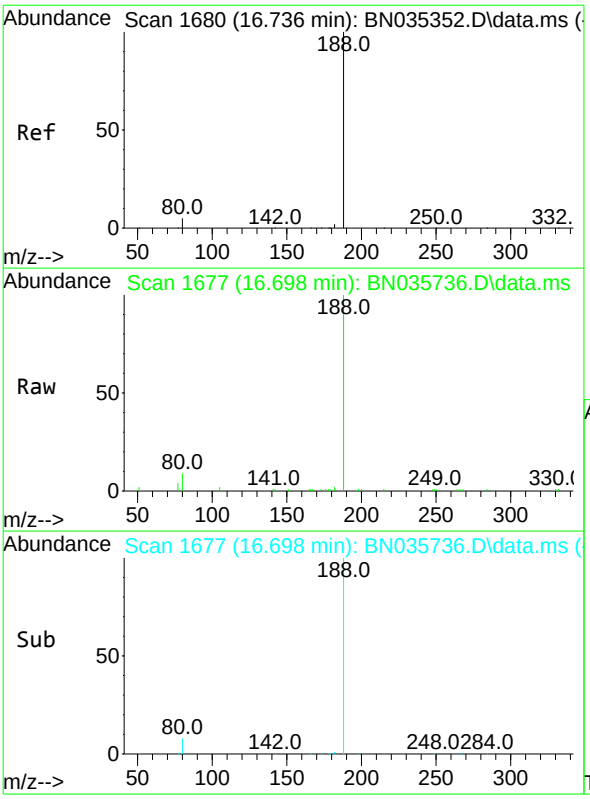


#18
Fluorene
Concen: 0.279 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:166 Resp: 6437

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.4	10.8	16.2

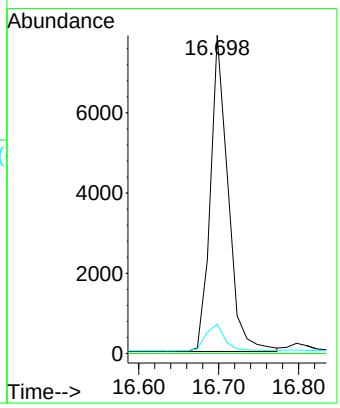




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:188 Resp: 12117

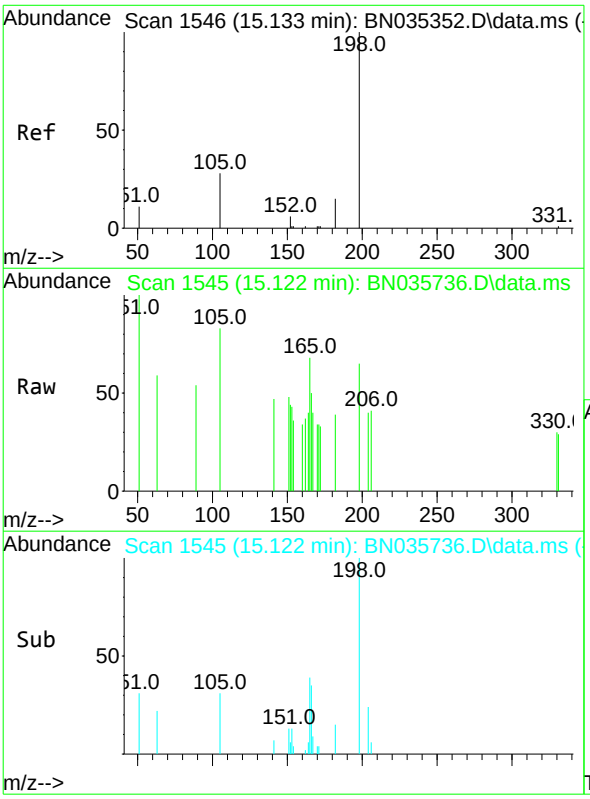
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

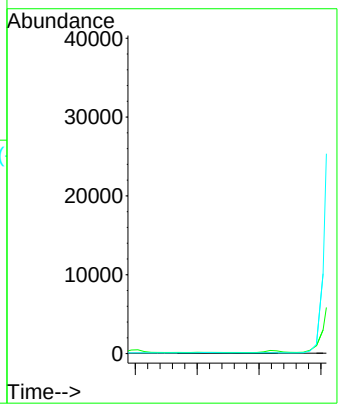
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

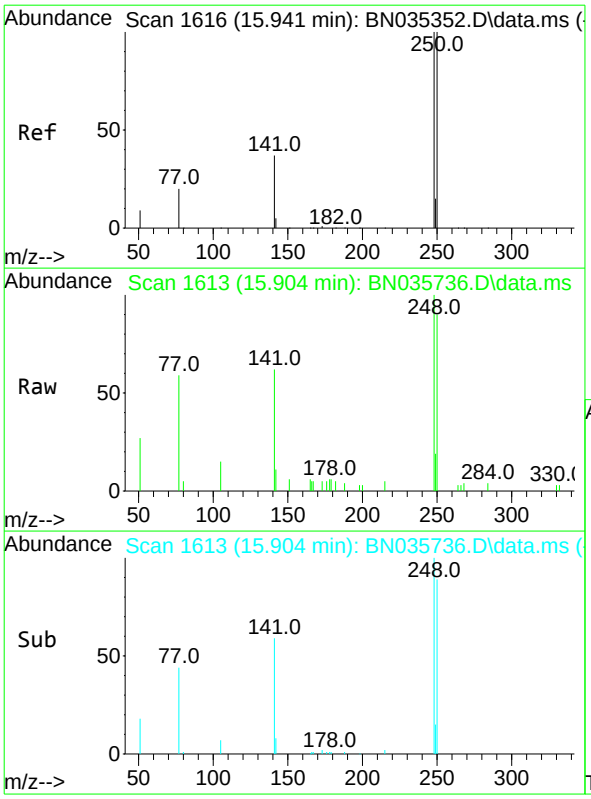


#20
4,6-Dinitro-2-methylphenol
Concen: 0.118 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:198 Resp: 141

Ion	Ratio	Lower	Upper
198	100		
51	153.5	46.5	69.7#
105	127.7	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 15.904 min Scan# 16
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

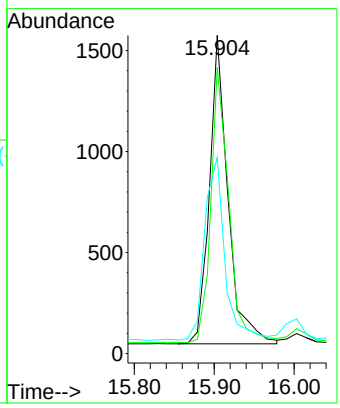
Tgt Ion:248 Resp: 2466

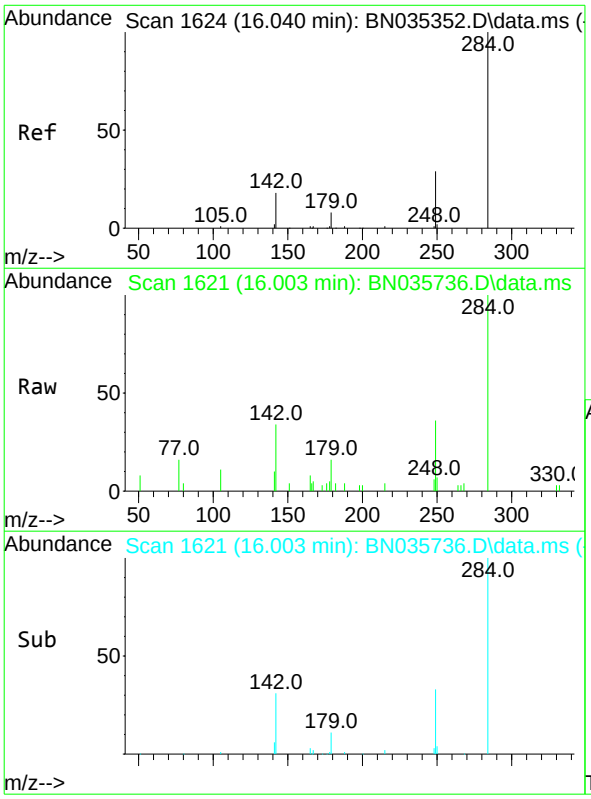
Ion	Ratio	Lower	Upper
248	100		
250	89.9	80.6	120.8
141	61.7	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

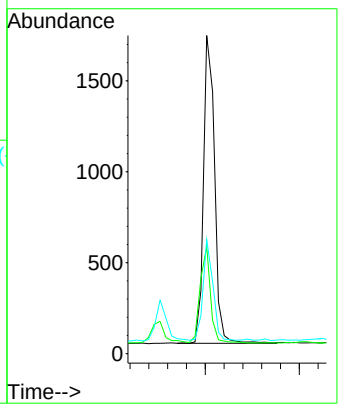


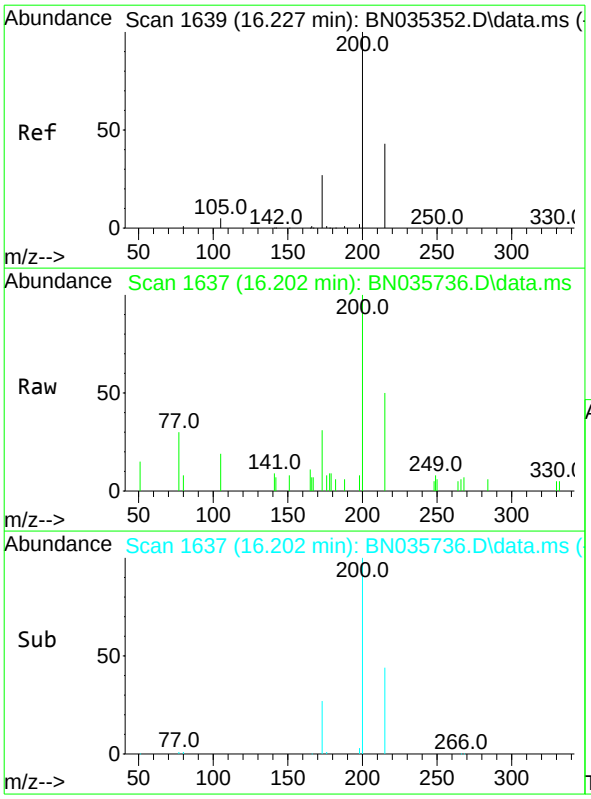


#22
Hexachlorobenzene
Concen: 0.333 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:284 Resp: 2768

Ion	Ratio	Lower	Upper
284	100		
142	29.3	26.7	40.1
249	29.0	24.6	36.8





#23
Atrazine
Concen: 0.286 ng
RT: 16.202 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

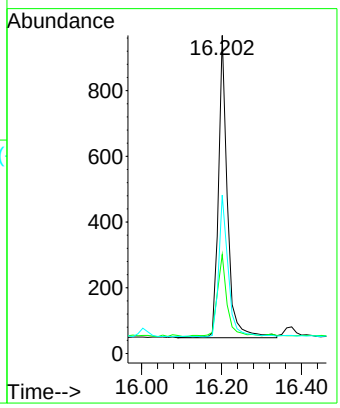
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

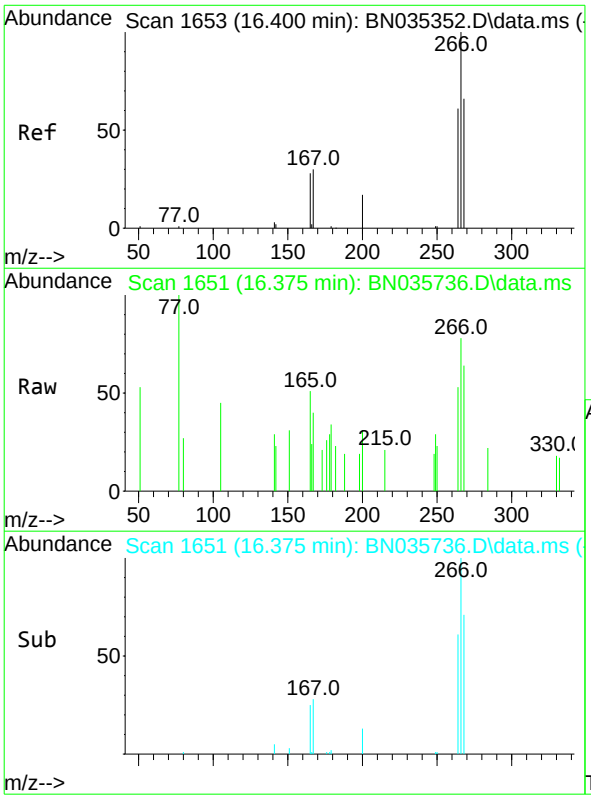
Tgt Ion:200 Resp: 1444

Ion	Ratio	Lower	Upper
200	100		
173	31.1	24.1	36.1
215	49.8	36.9	55.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

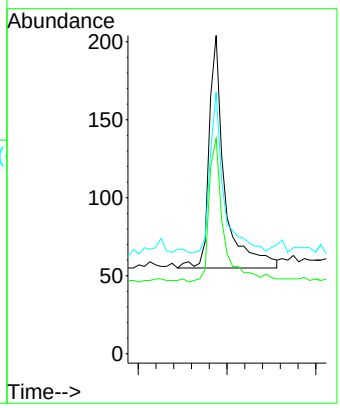


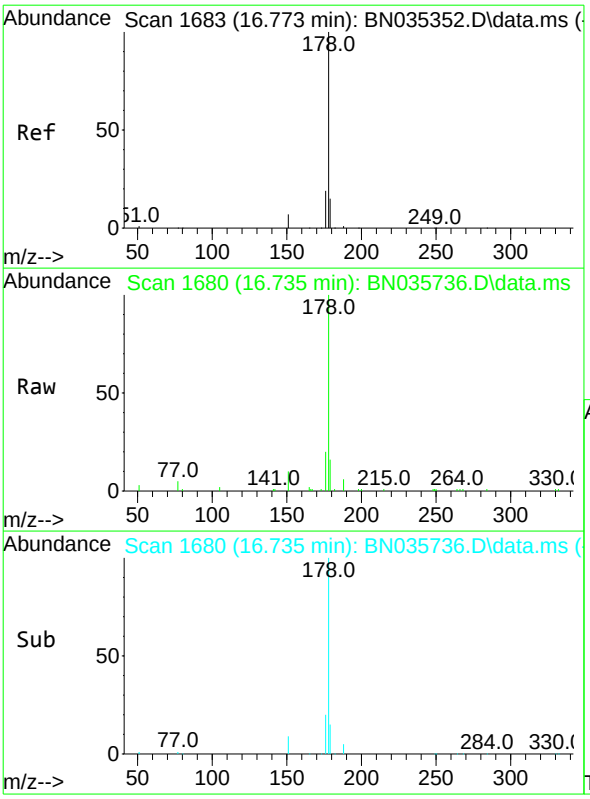


#24
Pentachlorophenol
Concen: 0.100 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:266 Resp: 361

Ion	Ratio	Lower	Upper
266	100		
264	58.7	42.3	63.5
268	59.8	43.3	64.9

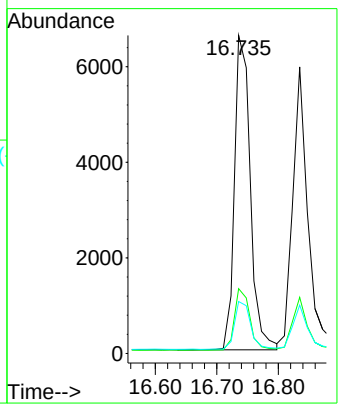




#25
Phenanthrene
Concen: 0.354 ng
RT: 16.735 min Scan# 16
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:178 Resp: 11782

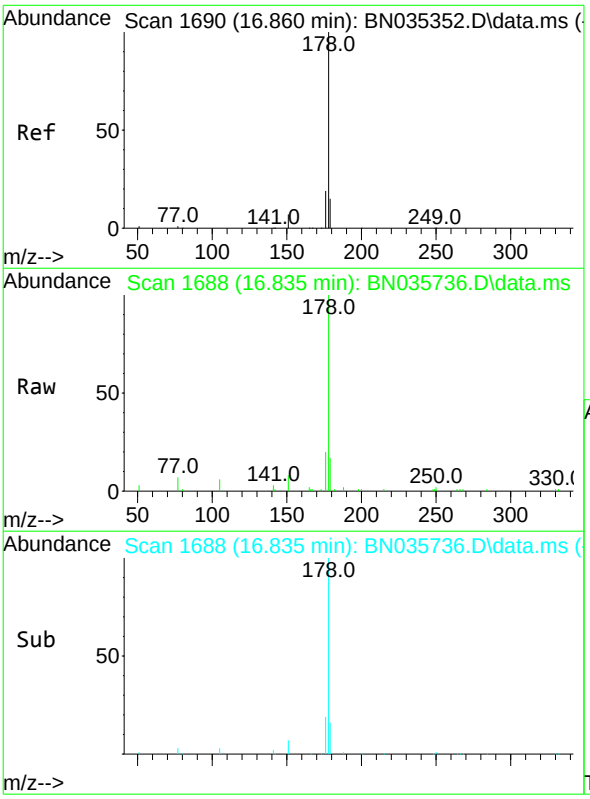
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

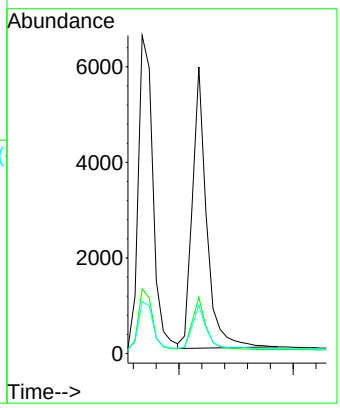
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

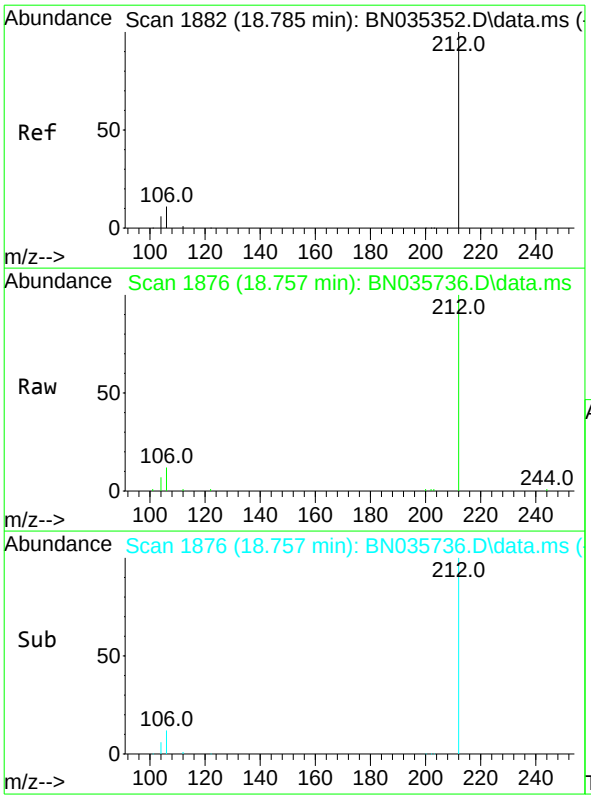


#26
Anthracene
Concen: 0.338 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:178 Resp: 10189

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.9	12.6	18.8





#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 18.757 min Scan# 18
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

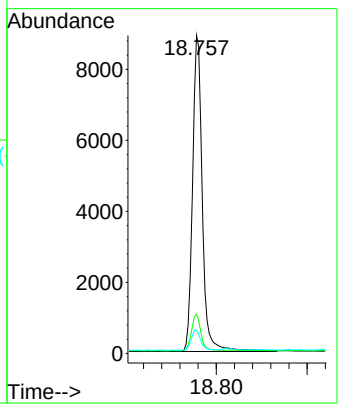
Tgt Ion:212 Resp: 13288

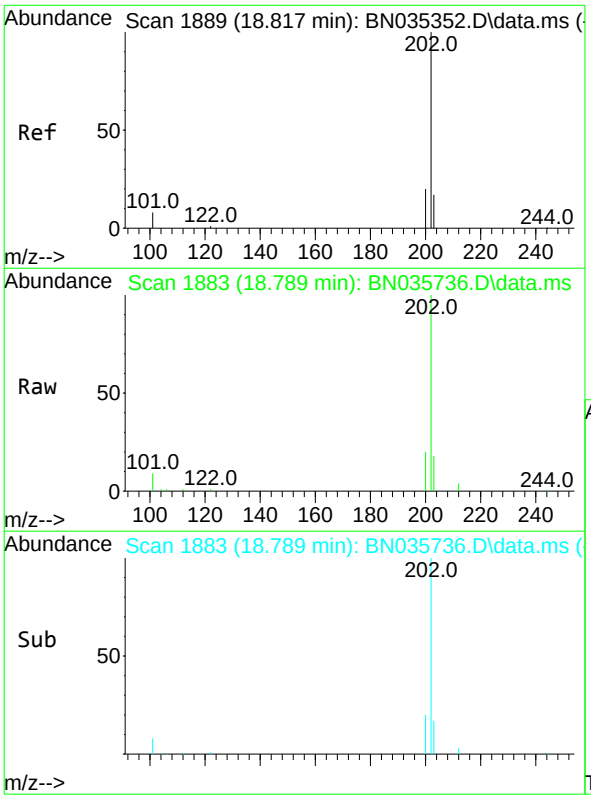
Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.3	5.3	7.9

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

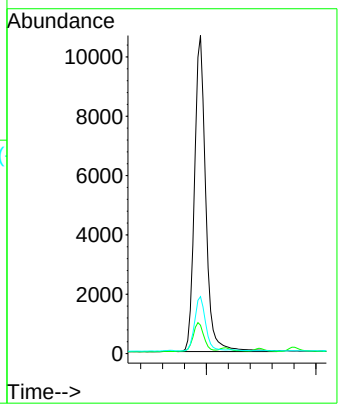


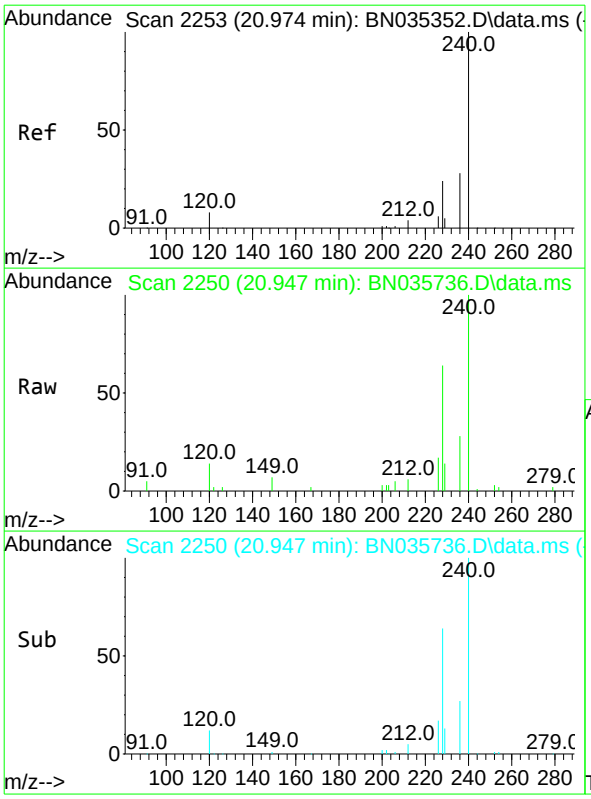


#28
Fluoranthene
Concen: 0.339 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:202 Resp: 15192

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	16.7	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 22
Delta R.T. -0.009 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

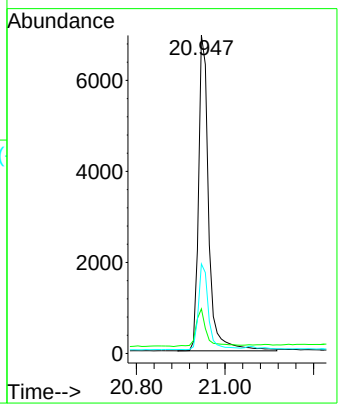
Tgt Ion:240 Resp: 11029

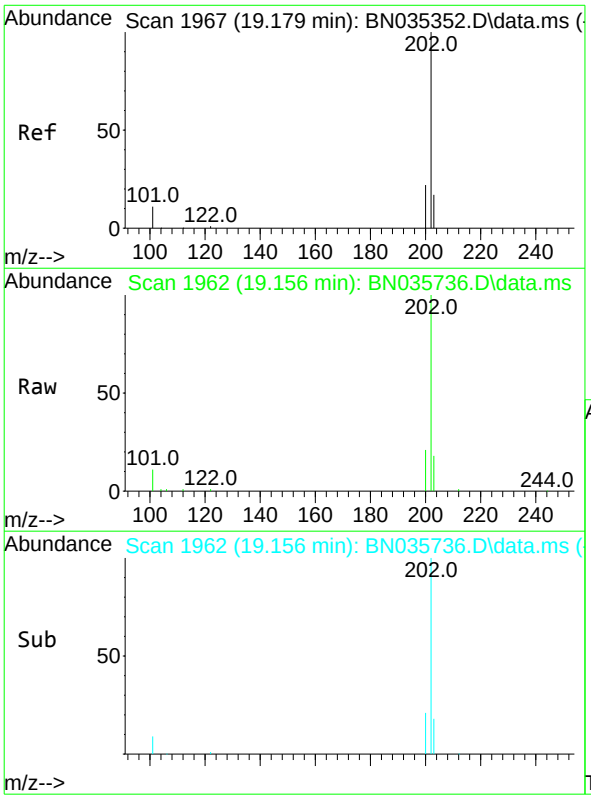
Ion	Ratio	Lower	Upper
240	100		
120	14.0	7.9	11.9#
236	28.1	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

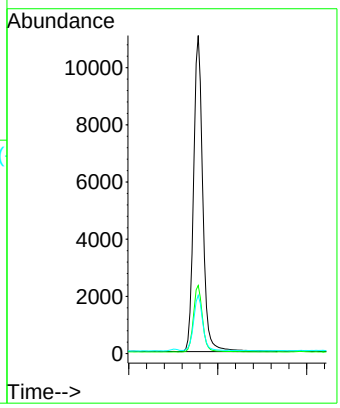


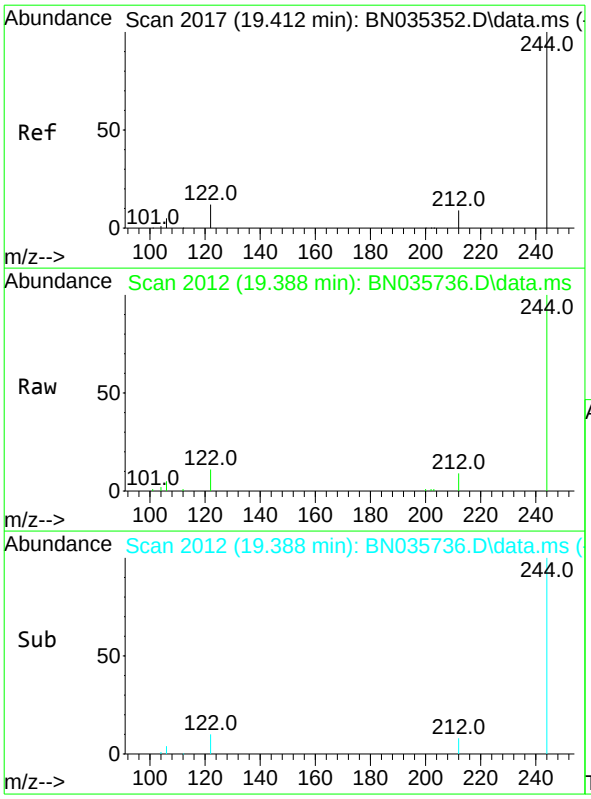


#30
Pyrene
Concen: 0.391 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:202 Resp: 15901

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.2	14.3	21.5

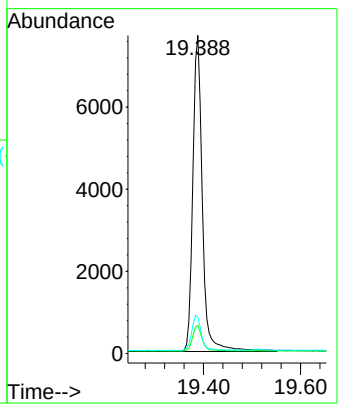




#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.388 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:244 Resp: 10572

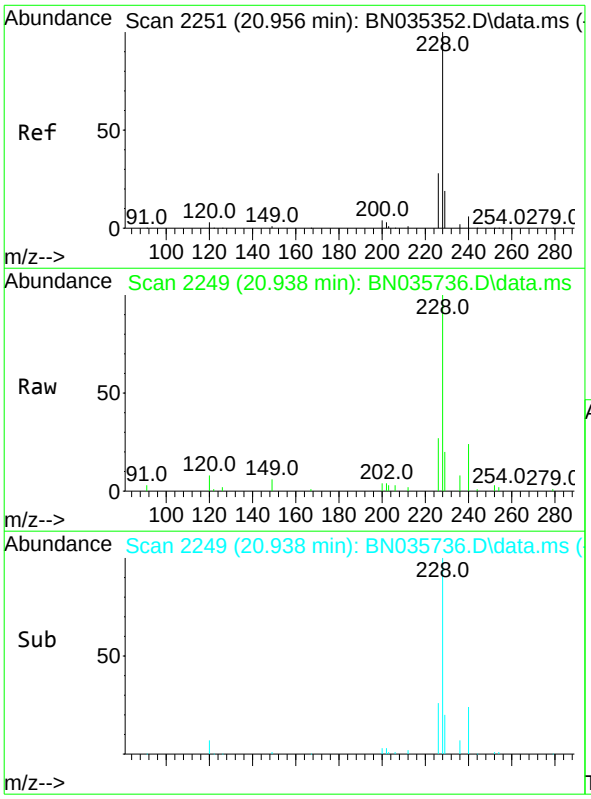
Ion	Ratio	Lower	Upper
244	100		
212	8.9	8.1	12.1
122	11.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

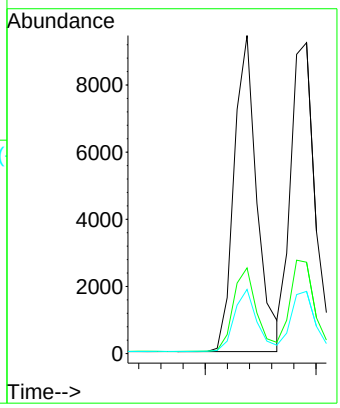
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

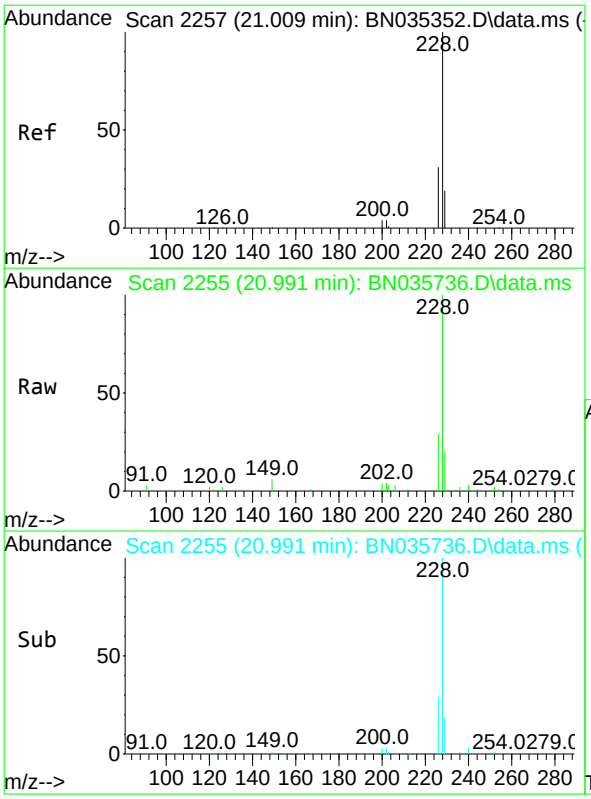


#32
Benzo(a)anthracene
Concen: 0.350 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:228 Resp: 13511

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.5	33.7
229	20.2	15.8	23.8





#33
Chrysene
Concen: 0.377 ng
RT: 20.991 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

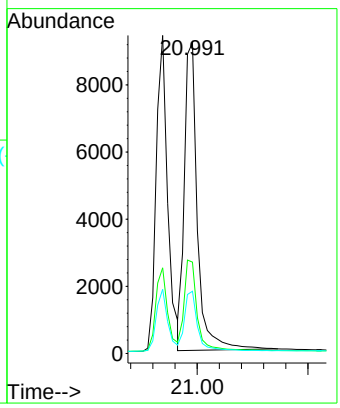
Tgt Ion:228 Resp: 15009

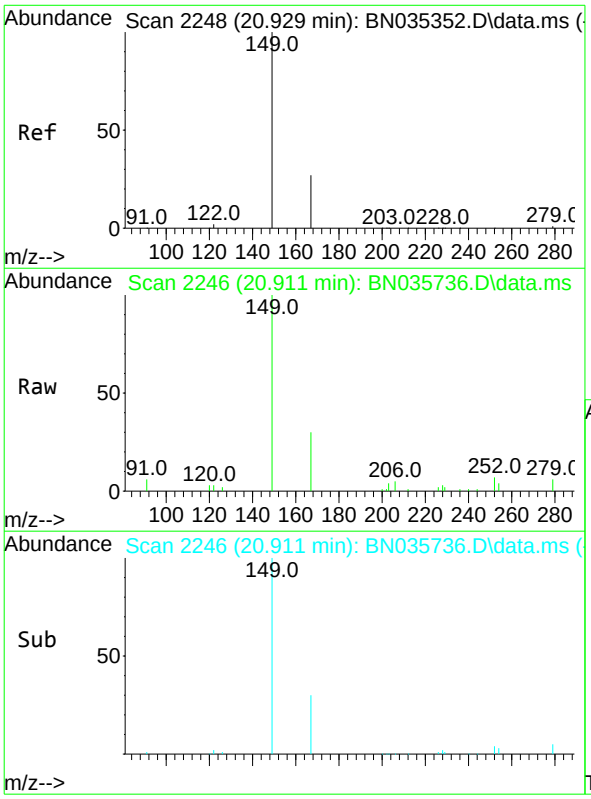
Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.6	37.0
229	20.0	15.9	23.9

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

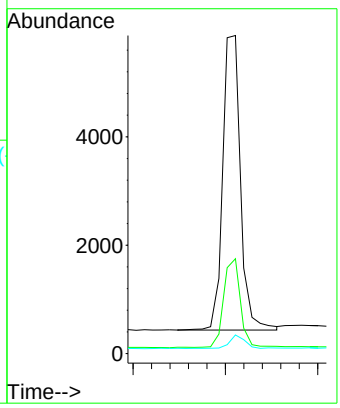


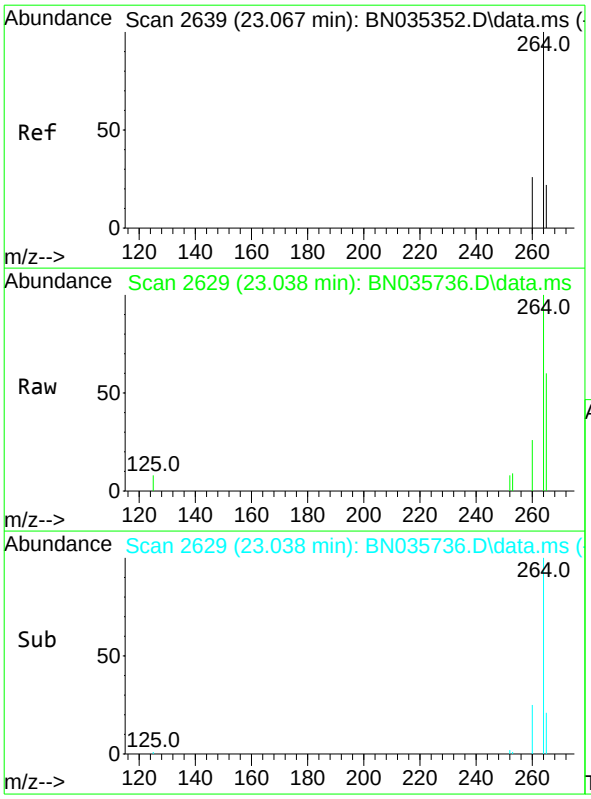


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.478 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:149 Resp: 7279

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.2	2.7	4.1#

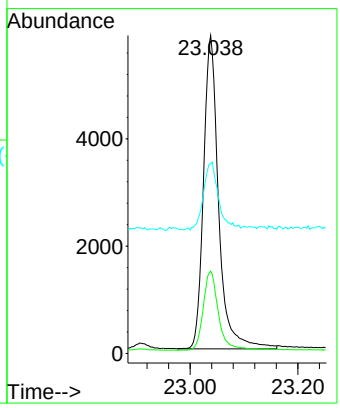




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 26
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:264 Resp: 11370

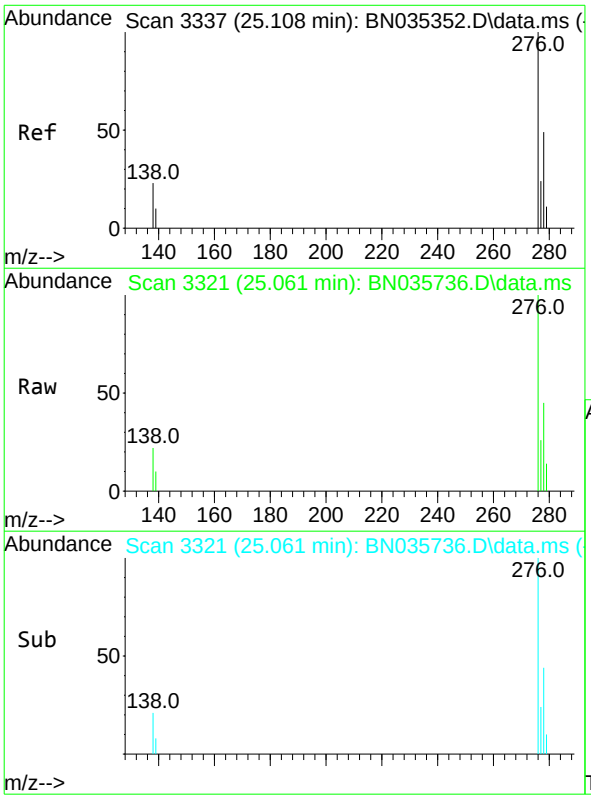
Ion	Ratio	Lower	Upper
264	100		
260	25.9	21.4	32.2
265	59.6	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

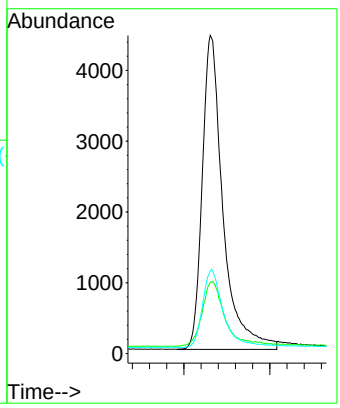
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

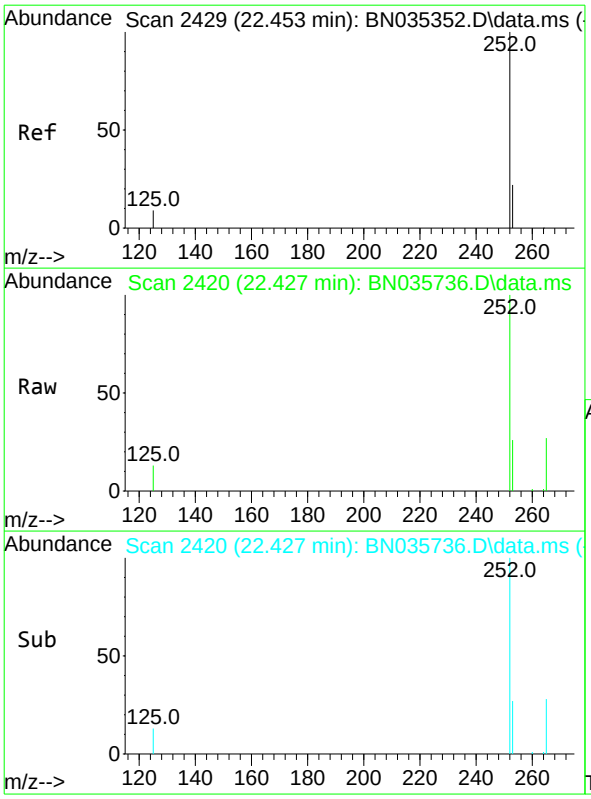


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:276 Resp: 14877

Ion	Ratio	Lower	Upper
276	100		
138	22.3	19.4	29.0
277	24.7	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.516 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

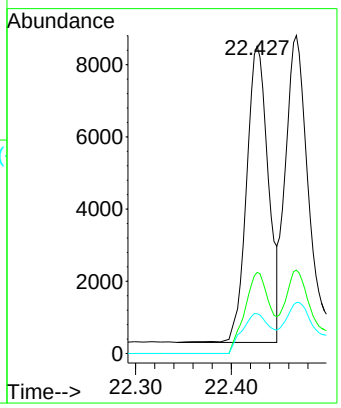
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

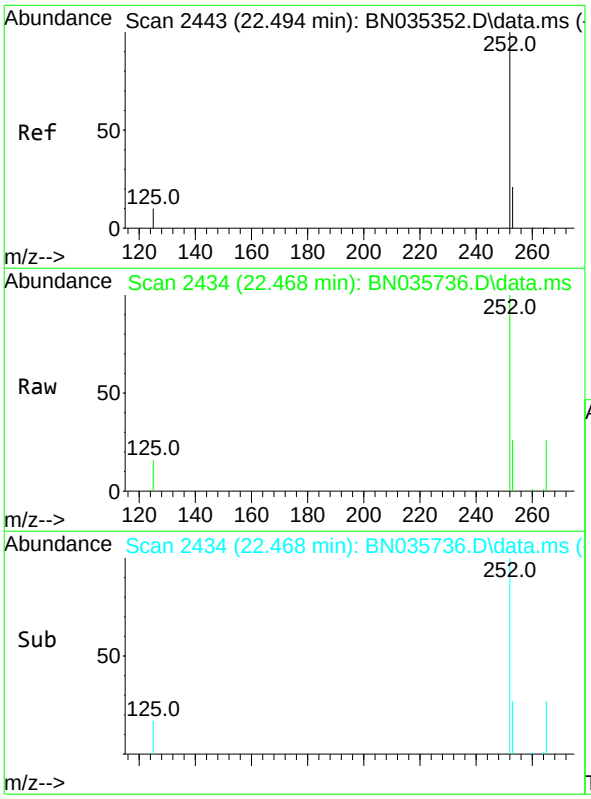
Tgt Ion:252 Resp: 21467

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	12.9	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

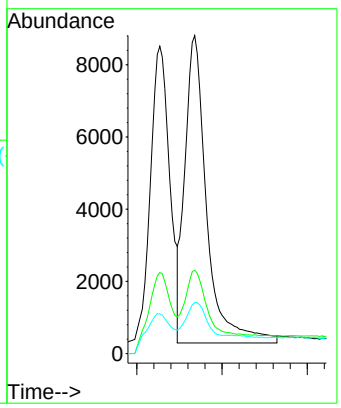


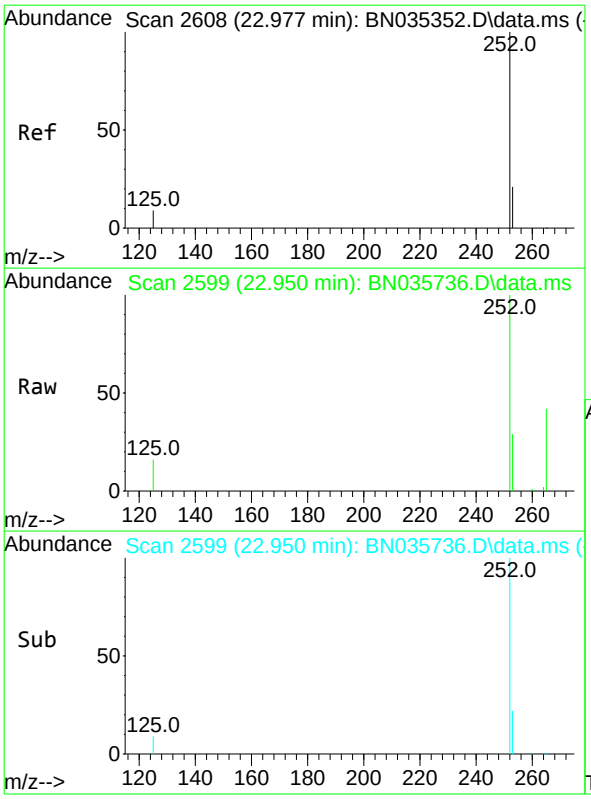


#38
Benzo(k)fluoranthene
Concen: 0.371 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:252 Resp: 15196

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.5	29.3
125	16.0	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.326 ng
RT: 22.950 min Scan# 25
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

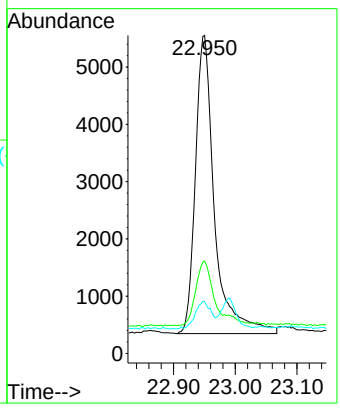
Tgt Ion:252 Resp: 11175

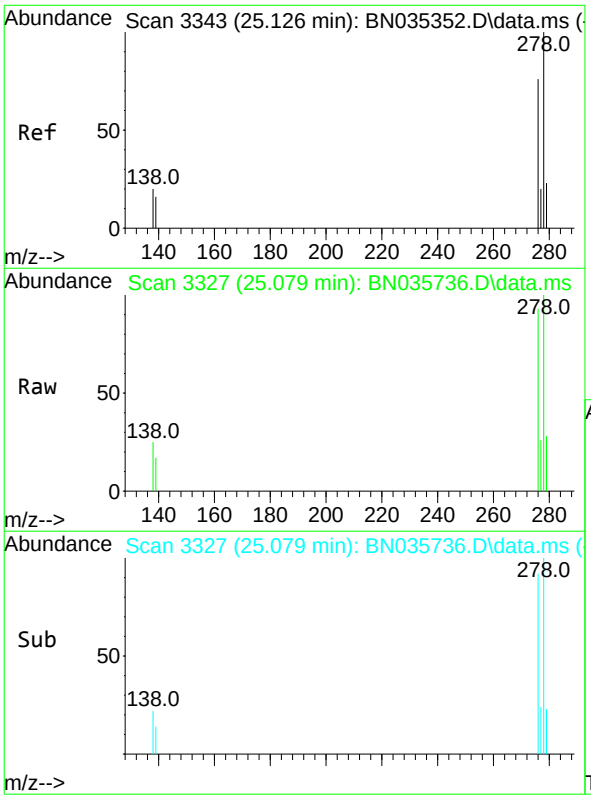
Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	16.3	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

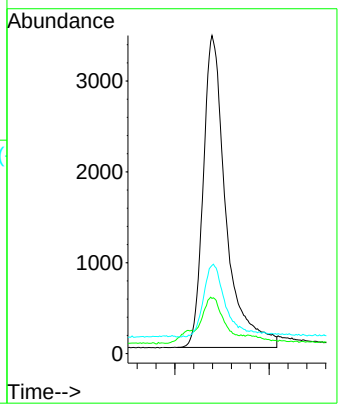


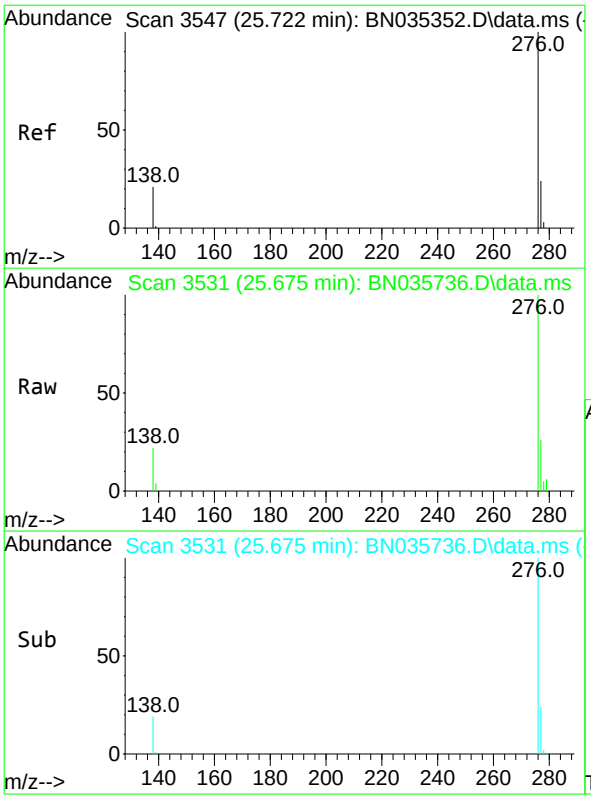


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:278 Resp: 11466

Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.2	21.4
279	27.7	20.5	30.7

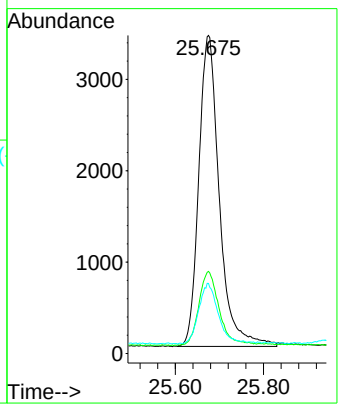




#41
Benzo(g,h,i)perylene
Concen: 0.301 ng
RT: 25.675 min Scan# 35
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:276 Resp: 11017

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	22.0	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

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

Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035350.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.1	BN035350.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICCC0.4	BN035352.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:11 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICV0.4	BN035357.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:22 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035366.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:37 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035368.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:03 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035375.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN121924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035712.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:12:22 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035712.D	Nitrobenzene-d5	yogesh	12/21/2024 1:12:22 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035729.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:13:50 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035729.D	Nitrobenzene-d5	yogesh	12/21/2024 1:13:50 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035731.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:13:55 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035731.D	Nitrobenzene-d5	yogesh	12/21/2024 1:13:55 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-04MS	BN035735.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:14:15 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-04MS	BN035735.D	Nitrobenzene-d5	yogesh	12/21/2024 1:14:15 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-05MSD	BN035736.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:14:25 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-05MSD	BN035736.D	Nitrobenzene-d5	yogesh	12/21/2024 1:14:25 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5281-01	BN035742.D	Nitrobenzene-d5	yogesh	12/21/2024 1:14:57 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035747.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:45:30 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035747.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:45:30 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN121924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035749.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	bis(2-Chloroethyl)ether	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035765.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:46:17 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035765.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:17 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035767.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:46:19 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035767.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:19 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035776.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035776.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-04	BN035778.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:20 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-02	BN035791.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
PB165667BL	BN035795.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:13 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-03	BN035796.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:14 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-05	BN035797.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-06	BN035798.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:18 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-07	BN035799.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:20 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5281-08	BN035800.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:46 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
PB165667BS	BN035808.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:58 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035809.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:45:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5281-04DL	BN035813.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:14 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035828.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035828.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	1,4-Dioxane	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Fluoranthene-d10	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035843.D	Benzo(k)fluoranthene	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035843.D	Nitrobenzene-d5	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN122624	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035845.D	Benzo(k)fluoranthene	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035845.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5281-07DL	BN035856.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:37 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5281-06DL	BN035858.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:40 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035861.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:44 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035349.D	27 Nov 2024 14:55	RC/JU	Ok
2	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	RC/JU	Ok
9	SSTDICV0.4	BN035357.D	27 Nov 2024 20:21	RC/JU	Ok,M
10	PB165224BL	BN035358.D	27 Nov 2024 20:57	RC/JU	Ok,M
11	PB165266BL	BN035359.D	27 Nov 2024 21:32	RC/JU	Ok,M
12	PB165224BS	BN035360.D	27 Nov 2024 22:08	RC/JU	Ok,M
13	PB165224BSD	BN035361.D	27 Nov 2024 22:44	RC/JU	Ok,M
14	P4969-02	BN035362.D	27 Nov 2024 23:20	RC/JU	Ok,M
15	P4969-04	BN035363.D	27 Nov 2024 23:56	RC/JU	Ok,M
16	P5003-02	BN035364.D	28 Nov 2024 00:32	RC/JU	Ok,M
17	P5003-03	BN035365.D	28 Nov 2024 01:08	RC/JU	Ok,M
18	SSTDCCC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165198BS	BN035370.D	28 Nov 2024 06:03	RC/JU	Ok,M
23	PB165198BSD	BN035371.D	28 Nov 2024 06:39	RC/JU	Ok,M
24	PB165266BS	BN035372.D	28 Nov 2024 07:15	RC/JU	Ok,M
25	PB165266BSD	BN035373.D	28 Nov 2024 07:50	RC/JU	Ok,M
26	P4959-01	BN035374.D	28 Nov 2024 08:26	RC/JU	Ok,M
27	SSTDCCC0.4	BN035375.D	28 Nov 2024 09:02	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM				
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM				
SubDirectory	BN121924	HP Acquire Method	BNA_N		HP Processing Method	bn112724	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035711.D	19 Dec 2024 18:44	RC/JU	Ok
2	SSTDCCC0.4	BN035712.D	19 Dec 2024 19:23	RC/JU	Ok,M
3	PB165596BL	BN035713.D	19 Dec 2024 20:35	RC/JU	Ok,M
4	P5261-01	BN035714.D	19 Dec 2024 21:11	RC/JU	Ok,M
5	P5261-02	BN035715.D	19 Dec 2024 21:47	RC/JU	Ok,M
6	P5261-03	BN035716.D	19 Dec 2024 22:23	RC/JU	Ok,M
7	P5261-04	BN035717.D	19 Dec 2024 22:58	RC/JU	Dilution
8	P5261-05	BN035718.D	19 Dec 2024 23:34	RC/JU	Ok,M
9	P5261-06	BN035719.D	20 Dec 2024 00:10	RC/JU	Ok,M
10	P5261-07	BN035720.D	20 Dec 2024 00:46	RC/JU	Ok,M
11	P5261-08	BN035721.D	20 Dec 2024 01:22	RC/JU	Ok,M
12	P5261-09	BN035722.D	20 Dec 2024 01:58	RC/JU	Dilution
13	P5261-10	BN035723.D	20 Dec 2024 02:34	RC/JU	Ok,M
14	P5261-11	BN035724.D	20 Dec 2024 03:10	RC/JU	Ok,M
15	P5261-16	BN035725.D	20 Dec 2024 03:46	RC/JU	Ok,M
16	P5261-15	BN035726.D	20 Dec 2024 04:22	RC/JU	Dilution
17	P5261-17	BN035727.D	20 Dec 2024 04:58	RC/JU	Ok,M
18	PB165596BS	BN035728.D	20 Dec 2024 05:34	RC/JU	Ok,M
19	SSTDCCC0.4	BN035729.D	20 Dec 2024 06:10	RC/JU	Ok,M
20	DFTPP	BN035730.D	20 Dec 2024 07:25	RC/JU	Ok
21	SSTDCCC0.4	BN035731.D	20 Dec 2024 08:04	RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165667BL	BN035732.D	20 Dec 2024 08:40	RC/JU	Ok,M
23	P5280-03	BN035733.D	20 Dec 2024 09:16	RC/JU	Not Ok
24	P5261-12	BN035734.D	20 Dec 2024 10:29	RC/JU	Ok,M
25	P5280-04MS	BN035735.D	20 Dec 2024 11:05	RC/JU	Ok,M
26	P5280-05MSD	BN035736.D	20 Dec 2024 11:41	RC/JU	Ok,M
27	P5261-13MS	BN035737.D	20 Dec 2024 12:17	RC/JU	Ok,M
28	P5261-14MSD	BN035738.D	20 Dec 2024 12:53	RC/JU	Ok,M
29	P5261-18	BN035739.D	20 Dec 2024 13:29	RC/JU	Ok,M
30	P5261-19	BN035740.D	20 Dec 2024 14:05	RC/JU	Dilution
31	P5261-20	BN035741.D	20 Dec 2024 14:41	RC/JU	Ok,M
32	P5281-01	BN035742.D	20 Dec 2024 15:18	RC/JU	Ok,M
33	P5317-01	BN035743.D	20 Dec 2024 15:54	RC/JU	Ok,M
34	P5317-02	BN035744.D	20 Dec 2024 16:30	RC/JU	Ok,M
35	P5317-03	BN035745.D	20 Dec 2024 17:06	RC/JU	Ok,M
36	P5317-04	BN035746.D	20 Dec 2024 17:42	RC/JU	Ok,M
37	SSTDCCC0.4	BN035747.D	20 Dec 2024 18:18	RC/JU	Ok,M
38	DFTPP	BN035748.D	20 Dec 2024 18:54	RC/JU	Ok
39	SSTDCCC0.4	BN035749.D	20 Dec 2024 19:33	RC/JU	Ok,M
40	PB165723BL	BN035750.D	20 Dec 2024 20:09	RC/JU	Ok,M
41	P5317-05	BN035751.D	20 Dec 2024 20:45	RC/JU	Ok,M
42	P5261-09DL	BN035752.D	20 Dec 2024 21:21	RC/JU	Ok,M
43	P5261-15DL	BN035753.D	20 Dec 2024 21:57	RC/JU	Ok,M
44	P5261-04DL	BN035754.D	20 Dec 2024 22:33	RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM				
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM				
SubDirectory	BN121924	HP Acquire Method	BNA_N		HP Processing Method	bn112724	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5317-09	BN035755.D	20 Dec 2024 23:09	RC/JU	Ok,M
46	P5317-10	BN035756.D	20 Dec 2024 23:45	RC/JU	Ok,M
47	P5317-11	BN035757.D	21 Dec 2024 00:21	RC/JU	Ok,M
48	P5317-12	BN035758.D	21 Dec 2024 00:57	RC/JU	Ok,M
49	P5317-08	BN035759.D	21 Dec 2024 01:34	RC/JU	Ok,M
50	P5317-13	BN035760.D	21 Dec 2024 02:10	RC/JU	Ok,M
51	P5317-14	BN035761.D	21 Dec 2024 02:46	RC/JU	Ok,M
52	P5284-02	BN035762.D	21 Dec 2024 03:22	RC/JU	Ok,M
53	P5284-03	BN035763.D	21 Dec 2024 03:58	RC/JU	Ok,M
54	PB165724BS	BN035764.D	21 Dec 2024 04:34	RC/JU	Ok,M
55	SSTDCCC0.4	BN035765.D	21 Dec 2024 05:10	RC/JU	Ok,M
56	DFTPP	BN035766.D	21 Dec 2024 05:46	RC/JU	Ok
57	SSTDCCC0.4	BN035767.D	21 Dec 2024 06:25	RC/JU	Ok,M
58	PB165596BL	BN035768.D	21 Dec 2024 07:01	RC/JU	Not Ok
59	P5281-04	BN035769.D	21 Dec 2024 07:37	RC/JU	Not Ok
60	P5317-15	BN035770.D	21 Dec 2024 08:13	RC/JU	Not Ok
61	P5317-16	BN035771.D	21 Dec 2024 08:49	RC/JU	Not Ok
62	P5317-17	BN035772.D	21 Dec 2024 09:25	RC/JU	Not Ok
63	P5317-18	BN035773.D	21 Dec 2024 10:01	RC/JU	Not Ok
64	P5317-19MS	BN035774.D	21 Dec 2024 10:37	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035775.D	23 Dec 2024 09:43	RC/JU	Ok
2	SSTDCCC0.4	BN035776.D	23 Dec 2024 10:22	RC/JU	Ok,M
3	PB165596BL	BN035777.D	23 Dec 2024 10:57	RC/JU	Not Ok
4	P5281-04	BN035778.D	23 Dec 2024 11:32	RC/JU	Dilution
5	P5317-15	BN035779.D	23 Dec 2024 12:08	RC/JU	Ok,M
6	P5317-16	BN035780.D	23 Dec 2024 12:43	RC/JU	Ok,M
7	P5317-17	BN035781.D	23 Dec 2024 13:19	RC/JU	Ok,M
8	P5317-18	BN035782.D	23 Dec 2024 13:54	RC/JU	Ok,M
9	P5317-19MS	BN035783.D	23 Dec 2024 14:30	RC/JU	Ok,M
10	P5317-20MSD	BN035784.D	23 Dec 2024 15:05	RC/JU	Ok,M
11	P5314-02	BN035785.D	23 Dec 2024 15:41	RC/JU	Ok,M
12	P5314-04	BN035786.D	23 Dec 2024 16:17	RC/JU	Ok,M
13	P5317-21	BN035787.D	23 Dec 2024 16:52	RC/JU	Dilution
14	P5317-22	BN035788.D	23 Dec 2024 17:28	RC/JU	Ok,M
15	P5317-24	BN035789.D	23 Dec 2024 18:04	RC/JU	Ok,M
16	P5317-25	BN035790.D	23 Dec 2024 18:39	RC/JU	Ok,M
17	P5281-02	BN035791.D	23 Dec 2024 19:15	RC/JU	Ok,M
18	SSTDCCC0.4	BN035792.D	23 Dec 2024 19:51	RC/JU	Ok,M
19	DFTPP	BN035793.D	23 Dec 2024 20:26	RC/JU	Ok
20	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16	RC/JU	Ok,M
21	PB165667BL	BN035795.D	23 Dec 2024 22:52	RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5281-03	BN035796.D	23 Dec 2024 23:27	RC/JU	Ok,M
23	P5281-05	BN035797.D	24 Dec 2024 00:03	RC/JU	Ok,M
24	P5281-06	BN035798.D	24 Dec 2024 00:38	RC/JU	Dilution
25	P5281-07	BN035799.D	24 Dec 2024 01:14	RC/JU	Dilution
26	P5281-08	BN035800.D	24 Dec 2024 01:49	RC/JU	Ok,M
27	P5282-01	BN035801.D	24 Dec 2024 02:25	RC/JU	Dilution
28	P5282-02	BN035802.D	24 Dec 2024 03:00	RC/JU	Ok,M
29	P5282-03	BN035803.D	24 Dec 2024 03:36	RC/JU	Ok,M
30	P5282-04	BN035804.D	24 Dec 2024 04:12	RC/JU	Ok,M
31	P5284-01	BN035805.D	24 Dec 2024 04:47	RC/JU	Dilution
32	P5317-07	BN035806.D	24 Dec 2024 05:23	RC/JU	Ok,M
33	P5317-06	BN035807.D	24 Dec 2024 05:58	RC/JU	Ok,M
34	PB165667BS	BN035808.D	24 Dec 2024 06:34	RC/JU	Ok,M
35	SSTDCCC0.4	BN035809.D	24 Dec 2024 07:09	RC/JU	Ok,M
36	DFTPP	BN035810.D	24 Dec 2024 07:45	RC/JU	Ok
37	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59	RC/JU	Ok,M
38	PB165828BL	BN035812.D	24 Dec 2024 09:35	RC/JU	Ok,M
39	P5281-04DL	BN035813.D	24 Dec 2024 10:10	RC/JU	Ok,M
40	P5261-19DL	BN035814.D	24 Dec 2024 10:46	RC/JU	Not Ok
41	P5376-02	BN035815.D	24 Dec 2024 11:21	RC/JU	Ok,M
42	P5376-03	BN035816.D	24 Dec 2024 11:57	RC/JU	Dilution
43	P5376-04	BN035817.D	24 Dec 2024 12:33	RC/JU	Ok,M
44	P5376-05	BN035818.D	24 Dec 2024 13:08	RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5376-06	BN035819.D	24 Dec 2024 13:44	RC/JU	Ok,M
46	P5376-07	BN035820.D	24 Dec 2024 14:19	RC/JU	Ok,M
47	P5376-08MS	BN035821.D	24 Dec 2024 14:55	RC/JU	Ok,M
48	P5376-09MSD	BN035822.D	24 Dec 2024 15:31	RC/JU	Ok,M
49	P5376-10	BN035823.D	24 Dec 2024 16:06	RC/JU	Ok,M
50	P5376-11	BN035824.D	24 Dec 2024 16:42	RC/JU	Ok,M
51	P5376-12	BN035825.D	24 Dec 2024 17:18	RC/JU	Ok,M
52	P5376-13	BN035826.D	24 Dec 2024 17:53	RC/JU	Ok,M
53	P5376-14	BN035827.D	24 Dec 2024 18:29	RC/JU	Ok,M
54	SSTDCCC0.4	BN035828.D	24 Dec 2024 19:05	RC/JU	Ok,M
55	DFTPP	BN035829.D	24 Dec 2024 19:41	RC/JU	Ok
56	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55	RC/JU	Ok,M
57	PB165596BL	BN035831.D	24 Dec 2024 22:07	RC/JU	Ok,M
58	P5376-15	BN035832.D	24 Dec 2024 22:42	RC/JU	ReRun
59	P5376-16	BN035833.D	24 Dec 2024 23:18	RC/JU	Ok,M
60	P5376-17	BN035834.D	24 Dec 2024 23:53	RC/JU	Ok,M
61	P5376-18	BN035835.D	25 Dec 2024 00:29	RC/JU	Ok,M
62	P5376-19	BN035836.D	25 Dec 2024 01:05	RC/JU	ReRun
63	P5376-20	BN035837.D	25 Dec 2024 01:40	RC/JU	Ok,M
64	P5376-01	BN035838.D	25 Dec 2024 02:16	RC/JU	ReRun
65	PB165723BS	BN035839.D	25 Dec 2024 02:51	RC/JU	Not Ok
66	PB165724BSD	BN035840.D	25 Dec 2024 03:27	RC/JU	Not Ok
67	PB165828BS	BN035841.D	25 Dec 2024 04:03	RC/JU	Not Ok

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM				
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM				
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

68	P5374-03	BN035842.D	25 Dec 2024 04:38	RC/JU	ReRun
69	SSTDCCC0.4	BN035843.D	25 Dec 2024 05:14	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM		
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM		
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035844.D	26 Dec 2024 09:19	RC/JU	Ok
2	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58	RC/JU	Ok,M
3	PB165828BL	BN035846.D	26 Dec 2024 10:35	RC/JU	Ok,M
4	P5376-15	BN035847.D	26 Dec 2024 11:20	RC/JU	Ok,M
5	P5376-19	BN035848.D	26 Dec 2024 11:56	RC/JU	Ok,M
6	P5376-01	BN035849.D	26 Dec 2024 12:31	RC/JU	Ok,M
7	P5374-03	BN035850.D	26 Dec 2024 13:07	RC/JU	Ok,M
8	PB165723BS	BN035851.D	26 Dec 2024 13:43	RC/JU	Ok,M
9	PB165828BS	BN035852.D	26 Dec 2024 14:19	RC/JU	Ok,M
10	PB165724BSD	BN035853.D	26 Dec 2024 14:54	RC/JU	Ok,M
11	P5376-03DL	BN035854.D	26 Dec 2024 15:30	RC/JU	Ok,M
12	P5317-21DL	BN035855.D	26 Dec 2024 16:06	RC/JU	Ok,M
13	P5281-07DL	BN035856.D	26 Dec 2024 16:42	RC/JU	Ok,M
14	P5282-01DL	BN035857.D	26 Dec 2024 17:18	RC/JU	Ok,M
15	P5281-06DL	BN035858.D	26 Dec 2024 17:53	RC/JU	Ok,M
16	P5284-01DL	BN035859.D	26 Dec 2024 18:29	RC/JU	Ok,M
17	P5261-19DL	BN035860.D	26 Dec 2024 19:05	RC/JU	Ok,M
18	SSTDCCC0.4	BN035861.D	26 Dec 2024 19:41	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035349.D	27 Nov 2024 14:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	This Calibration is Good For DOD	RC/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	Compound #20 removed from 3.2ppm	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112724	BN035357.D	27 Nov 2024 20:21		RC/JU	Ok,M
10	PB165224BL	PB165224BL	BN035358.D	27 Nov 2024 20:57		RC/JU	Ok,M
11	PB165266BL	PB165266BL	BN035359.D	27 Nov 2024 21:32		RC/JU	Ok,M
12	PB165224BS	PB165224BS	BN035360.D	27 Nov 2024 22:08		RC/JU	Ok,M
13	PB165224BSD	PB165224BSD	BN035361.D	27 Nov 2024 22:44		RC/JU	Ok,M
14	P4969-02	TOWER-1	BN035362.D	27 Nov 2024 23:20		RC/JU	Ok,M
15	P4969-04	TOWER-2	BN035363.D	27 Nov 2024 23:56		RC/JU	Ok,M
16	P5003-02	RW-10A-HYD-2024112	BN035364.D	28 Nov 2024 00:32		RC/JU	Ok,M
17	P5003-03	RW-10A-HYD-2024112	BN035365.D	28 Nov 2024 01:08		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035366.D	28 Nov 2024 02:20		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035367.D	28 Nov 2024 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51		RC/JU	Ok,M
21	PB165198BL	PB165198BL	BN035369.D	28 Nov 2024 05:27		RC/JU	Ok,M
22	PB165198BS	PB165198BS	BN035370.D	28 Nov 2024 06:03		RC/JU	Ok,M
23	PB165198BSD	PB165198BSD	BN035371.D	28 Nov 2024 06:39		RC/JU	Ok,M
24	PB165266BS	PB165266BS	BN035372.D	28 Nov 2024 07:15		RC/JU	Ok,M
25	PB165266BSD	PB165266BSD	BN035373.D	28 Nov 2024 07:50		RC/JU	Ok,M
26	P4959-01	RW5-SP100-20241121	BN035374.D	28 Nov 2024 08:26		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN035375.D	28 Nov 2024 09:02		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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035711.D	19 Dec 2024 18:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035712.D	19 Dec 2024 19:23		RC/JU	Ok,M
3	PB165596BL	PB165596BL	BN035713.D	19 Dec 2024 20:35		RC/JU	Ok,M
4	P5261-01	RE122D1-20241209	BN035714.D	19 Dec 2024 21:11		RC/JU	Ok,M
5	P5261-02	RE122D2-20241209	BN035715.D	19 Dec 2024 21:47		RC/JU	Ok,M
6	P5261-03	RE122D3-20241209	BN035716.D	19 Dec 2024 22:23		RC/JU	Ok,M
7	P5261-04	RE103D1-20241209	BN035717.D	19 Dec 2024 22:58	Need 2X Dilution	RC/JU	Dilution
8	P5261-05	RE103D2-20241209	BN035718.D	19 Dec 2024 23:34		RC/JU	Ok,M
9	P5261-06	RE103D3-20241209	BN035719.D	20 Dec 2024 00:10		RC/JU	Ok,M
10	P5261-07	RE134D1-20241209	BN035720.D	20 Dec 2024 00:46		RC/JU	Ok,M
11	P5261-08	DUP-01-20241209	BN035721.D	20 Dec 2024 01:22		RC/JU	Ok,M
12	P5261-09	RE134D3-20241210	BN035722.D	20 Dec 2024 01:58	Need 2X Dilution	RC/JU	Dilution
13	P5261-10	RE134D4-20241210	BN035723.D	20 Dec 2024 02:34		RC/JU	Ok,M
14	P5261-11	GM3-RW3-MW1-20241	BN035724.D	20 Dec 2024 03:10		RC/JU	Ok,M
15	P5261-16	RE125D3-20241210	BN035725.D	20 Dec 2024 03:46		RC/JU	Ok,M
16	P5261-15	RE125D2-20241210	BN035726.D	20 Dec 2024 04:22	Need 2X Dilution	RC/JU	Dilution
17	P5261-17	RE120D1-20241210	BN035727.D	20 Dec 2024 04:58		RC/JU	Ok,M
18	PB165596BS	PB165596BS	BN035728.D	20 Dec 2024 05:34		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4EC	BN035729.D	20 Dec 2024 06:10		RC/JU	Ok,M
20	DFTPP	DFTPP	BN035730.D	20 Dec 2024 07:25		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN035731.D	20 Dec 2024 08:04		RC/JU	Ok,M
22	PB165667BL	PB165667BL	BN035732.D	20 Dec 2024 08:40		RC/JU	Ok,M
23	P5280-03	BPOW6-11-20241212	BN035733.D	20 Dec 2024 09:16	Test not Present on Login Page	RC/JU	Not Ok
24	P5261-12	RE125D1-20241210	BN035734.D	20 Dec 2024 10:29		RC/JU	Ok,M
25	P5280-04MS	BPOW6-11-20241212M	BN035735.D	20 Dec 2024 11:05		RC/JU	Ok,M
26	P5280-05MSD	BPOW6-11-20241212M	BN035736.D	20 Dec 2024 11:41		RC/JU	Ok,M
27	P5261-13MS	RE125D1-20241210MS	BN035737.D	20 Dec 2024 12:17		RC/JU	Ok,M
28	P5261-14MSD	RE125D1-20241210MS	BN035738.D	20 Dec 2024 12:53		RC/JU	Ok,M
29	P5261-18	RE120D2-20241210	BN035739.D	20 Dec 2024 13:29		RC/JU	Ok,M
30	P5261-19	RE120D3-20241210	BN035740.D	20 Dec 2024 14:05	Need 5X Dilution	RC/JU	Dilution
31	P5261-20	DUP-02-20241210	BN035741.D	20 Dec 2024 14:41		RC/JU	Ok,M
32	P5281-01	RE114D1-20241212	BN035742.D	20 Dec 2024 15:18		RC/JU	Ok,M
33	P5317-01	RE114D2-20241216	BN035743.D	20 Dec 2024 15:54		RC/JU	Ok,M
34	P5317-02	RW4-20241216	BN035744.D	20 Dec 2024 16:30		RC/JU	Ok,M
35	P5317-03	TT191D1-20241216	BN035745.D	20 Dec 2024 17:06		RC/JU	Ok,M
36	P5317-04	TT191D2-20241216	BN035746.D	20 Dec 2024 17:42		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN035747.D	20 Dec 2024 18:18		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	DFTPP	DFTPP	BN035748.D	20 Dec 2024 18:54		RC/JU	Ok
39	SSTDCCC0.4	SSTDCCC0.4	BN035749.D	20 Dec 2024 19:33		RC/JU	Ok,M
40	PB165723BL	PB165723BL	BN035750.D	20 Dec 2024 20:09		RC/JU	Ok,M
41	P5317-05	TT163S1-20241216	BN035751.D	20 Dec 2024 20:45		RC/JU	Ok,M
42	P5261-09DL	RE134D3-20241210DL	BN035752.D	20 Dec 2024 21:21		RC/JU	Ok,M
43	P5261-15DL	RE125D2-20241210DL	BN035753.D	20 Dec 2024 21:57		RC/JU	Ok,M
44	P5261-04DL	RE103D1-20241209DL	BN035754.D	20 Dec 2024 22:33		RC/JU	Ok,M
45	P5317-09	TT158S1-20241217	BN035755.D	20 Dec 2024 23:09		RC/JU	Ok,M
46	P5317-10	TT158I1-20241217	BN035756.D	20 Dec 2024 23:45		RC/JU	Ok,M
47	P5317-11	DUP-05-20241217	BN035757.D	21 Dec 2024 00:21		RC/JU	Ok,M
48	P5317-12	TT172S1-20241217	BN035758.D	21 Dec 2024 00:57		RC/JU	Ok,M
49	P5317-08	RW8-MW01D1-202412	BN035759.D	21 Dec 2024 01:34		RC/JU	Ok,M
50	P5317-13	RW9-MW01S-2024121	BN035760.D	21 Dec 2024 02:10		RC/JU	Ok,M
51	P5317-14	RW9-MW01D1-202412	BN035761.D	21 Dec 2024 02:46		RC/JU	Ok,M
52	P5284-02	RW5-SP201-20241212	BN035762.D	21 Dec 2024 03:22		RC/JU	Ok,M
53	P5284-03	RW5-SP303-20241212	BN035763.D	21 Dec 2024 03:58		RC/JU	Ok,M
54	PB165724BS	PB165724BS	BN035764.D	21 Dec 2024 04:34		RC/JU	Ok,M
55	SSTDCCC0.4	SSTDCCC0.4EC	BN035765.D	21 Dec 2024 05:10		RC/JU	Ok,M
56	DFTPP	DFTPP	BN035766.D	21 Dec 2024 05:46		RC/JU	Ok

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

57	SSTDCCC0.4	SSTDCCC0.4	BN035767.D	21 Dec 2024 06:25		RC/JU	Ok,M
58	PB165596BL	PB165596BL	BN035768.D	21 Dec 2024 07:01	END CCC Missing	RC/JU	Not Ok
59	P5281-04	TT101D2-20241212	BN035769.D	21 Dec 2024 07:37	END CCC Missing, Need 2X Dilution	RC/JU	Not Ok
60	P5317-15	RW9-MW01D2-202412	BN035770.D	21 Dec 2024 08:13	END CCC Missing	RC/JU	Not Ok
61	P5317-16	RW9-MW01D3-202412	BN035771.D	21 Dec 2024 08:49	END CCC Missing	RC/JU	Not Ok
62	P5317-17	DUP-06-20241217	BN035772.D	21 Dec 2024 09:25	END CCC Missing	RC/JU	Not Ok
63	P5317-18	RE132D5-20241217	BN035773.D	21 Dec 2024 10:01	END CCC Missing, Need 2X Dilution	RC/JU	Not Ok
64	P5317-19MS	RE132D5-20241217MS	BN035774.D	21 Dec 2024 10:37	Internal Standard Fail, END CCC Missing	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035775.D	23 Dec 2024 09:43		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035776.D	23 Dec 2024 10:22		RC/JU	Ok,M
3	PB165596BL	PB165596BL	BN035777.D	23 Dec 2024 10:57	Analyzed for contamination check	RC/JU	Not Ok
4	P5281-04	TT101D2-20241212	BN035778.D	23 Dec 2024 11:32	Need 2X Dilution	RC/JU	Dilution
5	P5317-15	RW9-MW01D2-202412	BN035779.D	23 Dec 2024 12:08		RC/JU	Ok,M
6	P5317-16	RW9-MW01D3-202412	BN035780.D	23 Dec 2024 12:43		RC/JU	Ok,M
7	P5317-17	DUP-06-20241217	BN035781.D	23 Dec 2024 13:19		RC/JU	Ok,M
8	P5317-18	RE132D5-20241217	BN035782.D	23 Dec 2024 13:54		RC/JU	Ok,M
9	P5317-19MS	RE132D5-20241217MS	BN035783.D	23 Dec 2024 14:30		RC/JU	Ok,M
10	P5317-20MSD	RE132D5-20241217MS	BN035784.D	23 Dec 2024 15:05		RC/JU	Ok,M
11	P5314-02	BP-VPB-190A-GW-678	BN035785.D	23 Dec 2024 15:41		RC/JU	Ok,M
12	P5314-04	VPB190A-HYD-202412	BN035786.D	23 Dec 2024 16:17		RC/JU	Ok,M
13	P5317-21	RE132D6-20241217	BN035787.D	23 Dec 2024 16:52	Need 5X Dilution	RC/JU	Dilution
14	P5317-22	RE132D7-20241217	BN035788.D	23 Dec 2024 17:28		RC/JU	Ok,M
15	P5317-24	RW8-MW01D2-202412	BN035789.D	23 Dec 2024 18:04		RC/JU	Ok,M
16	P5317-25	RW8-MW01D3-202412	BN035790.D	23 Dec 2024 18:39		RC/JU	Ok,M
17	P5281-02	BPOW1-7-20241212	BN035791.D	23 Dec 2024 19:15		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035792.D	23 Dec 2024 19:51		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035793.D	23 Dec 2024 20:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16		RC/JU	Ok,M
21	PB165667BL	PB165667BL	BN035795.D	23 Dec 2024 22:52		RC/JU	Ok,M
22	P5281-03	BPOW1-8-20241212	BN035796.D	23 Dec 2024 23:27		RC/JU	Ok,M
23	P5281-05	RE117D1-20241213	BN035797.D	24 Dec 2024 00:03		RC/JU	Ok,M
24	P5281-06	RE115D1-20241213	BN035798.D	24 Dec 2024 00:38	Need 2X Dilution	RC/JU	Dilution
25	P5281-07	TT189D2-20241213	BN035799.D	24 Dec 2024 01:14	Need 2X Dilution	RC/JU	Dilution
26	P5281-08	FB02-20241213	BN035800.D	24 Dec 2024 01:49		RC/JU	Ok,M
27	P5282-01	RW7-SP100-20241212	BN035801.D	24 Dec 2024 02:25	Need 2X Dilution	RC/JU	Dilution
28	P5282-02	RW7-SP201-20241212	BN035802.D	24 Dec 2024 03:00		RC/JU	Ok,M
29	P5282-03	RW7-SP302-20241212	BN035803.D	24 Dec 2024 03:36		RC/JU	Ok,M
30	P5282-04	RW7-SP303-20241212	BN035804.D	24 Dec 2024 04:12		RC/JU	Ok,M
31	P5284-01	RW5-SP100-20241212	BN035805.D	24 Dec 2024 04:47	Need 5X Dilution	RC/JU	Dilution
32	P5317-07	RW8-MW01S-2024121	BN035806.D	24 Dec 2024 05:23		RC/JU	Ok,M
33	P5317-06	DUP-04-20241216	BN035807.D	24 Dec 2024 05:58		RC/JU	Ok,M
34	PB165667BS	PB165667BS	BN035808.D	24 Dec 2024 06:34		RC/JU	Ok,M
35	SSTDCCC0.4	SSTDCCC0.4EC	BN035809.D	24 Dec 2024 07:09		RC/JU	Ok,M
36	DFTPP	DFTPP	BN035810.D	24 Dec 2024 07:45		RC/JU	Ok

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	SSTDCCC0.4	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59		RC/JU	Ok,M
38	PB165828BL	PB165828BL	BN035812.D	24 Dec 2024 09:35		RC/JU	Ok,M
39	P5281-04DL	TT101D2-20241212DL	BN035813.D	24 Dec 2024 10:10		RC/JU	Ok,M
40	P5261-19DL	RE120D3-20241210DL	BN035814.D	24 Dec 2024 10:46	Not Match Dilution	RC/JU	Not Ok
41	P5376-02	TT150S1-20241218	BN035815.D	24 Dec 2024 11:21		RC/JU	Ok,M
42	P5376-03	RE115D2-20241218	BN035816.D	24 Dec 2024 11:57	Need 5X Dilution	RC/JU	Dilution
43	P5376-04	TT149S1-20241218	BN035817.D	24 Dec 2024 12:33		RC/JU	Ok,M
44	P5376-05	DUP-07-20241218	BN035818.D	24 Dec 2024 13:08		RC/JU	Ok,M
45	P5376-06	TT174I1-20241218	BN035819.D	24 Dec 2024 13:44		RC/JU	Ok,M
46	P5376-07	RW10-MW01S-202412	BN035820.D	24 Dec 2024 14:19		RC/JU	Ok,M
47	P5376-08MS	RW10-MW01S-202412	BN035821.D	24 Dec 2024 14:55		RC/JU	Ok,M
48	P5376-09MSD	RW10-MW01S-202412	BN035822.D	24 Dec 2024 15:31		RC/JU	Ok,M
49	P5376-10	RW10-MW01D-202412	BN035823.D	24 Dec 2024 16:06		RC/JU	Ok,M
50	P5376-11	RW10A-MW01S-20241	BN035824.D	24 Dec 2024 16:42		RC/JU	Ok,M
51	P5376-12	RW10A-MW01I-202412	BN035825.D	24 Dec 2024 17:18		RC/JU	Ok,M
52	P5376-13	RE117D2-20241218	BN035826.D	24 Dec 2024 17:53		RC/JU	Ok,M
53	P5376-14	TT161S1-20241219	BN035827.D	24 Dec 2024 18:29		RC/JU	Ok,M
54	SSTDCCC0.4	SSTDCCC0.4EC	BN035828.D	24 Dec 2024 19:05		RC/JU	Ok,M
55	DFTPP	DFTPP	BN035829.D	24 Dec 2024 19:41		RC/JU	Ok

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

56	SSTDCCC0.4	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55		RC/JU	Ok,M
57	PB165596BL	PB165596BL	BN035831.D	24 Dec 2024 22:07		RC/JU	Ok,M
58	P5376-15	TT162S1-20241219	BN035832.D	24 Dec 2024 22:42	CCC Fail high for Com#2	RC/JU	ReRun
59	P5376-16	RW11-MW01S-202412	BN035833.D	24 Dec 2024 23:18		RC/JU	Ok,M
60	P5376-17	RW11-MW01I-2024121	BN035834.D	24 Dec 2024 23:53		RC/JU	Ok,M
61	P5376-18	TT119S1-20241219	BN035835.D	25 Dec 2024 00:29		RC/JU	Ok,M
62	P5376-19	TT188S1-20241219	BN035836.D	25 Dec 2024 01:05	CCC Fail high for Com#2	RC/JU	ReRun
63	P5376-20	FB03-20241219	BN035837.D	25 Dec 2024 01:40		RC/JU	Ok,M
64	P5376-01	TT205S1-20241218	BN035838.D	25 Dec 2024 02:16	CCC Fail high for Com#2	RC/JU	ReRun
65	PB165723BS	PB165723BS	BN035839.D	25 Dec 2024 02:51	CCC Fail high for Com#2	RC/JU	Not Ok
66	PB165724BSD	PB165724BSD	BN035840.D	25 Dec 2024 03:27	CCC Fail high for Com#2	RC/JU	Not Ok
67	PB165828BS	PB165828BS	BN035841.D	25 Dec 2024 04:03	CCC Fail high for Com#2	RC/JU	Not Ok
68	P5374-03	BP-VPB-190A-GW-718	BN035842.D	25 Dec 2024 04:38	CCC Fail high for Com#2	RC/JU	ReRun
69	SSTDCCC0.4	SSTDCCC0.4EC	BN035843.D	25 Dec 2024 05:14		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_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM	
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM	
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035844.D	26 Dec 2024 09:19		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58		RC/JU	Ok,M
3	PB165828BL	PB165828BL	BN035846.D	26 Dec 2024 10:35		RC/JU	Ok,M
4	P5376-15	TT162S1-20241219	BN035847.D	26 Dec 2024 11:20		RC/JU	Ok,M
5	P5376-19	TT188S1-20241219	BN035848.D	26 Dec 2024 11:56		RC/JU	Ok,M
6	P5376-01	TT205S1-20241218	BN035849.D	26 Dec 2024 12:31		RC/JU	Ok,M
7	P5374-03	BP-VPB-190A-GW-718	BN035850.D	26 Dec 2024 13:07		RC/JU	Ok,M
8	PB165723BS	PB165723BS	BN035851.D	26 Dec 2024 13:43		RC/JU	Ok,M
9	PB165828BS	PB165828BS	BN035852.D	26 Dec 2024 14:19		RC/JU	Ok,M
10	PB165724BSD	PB165724BSD	BN035853.D	26 Dec 2024 14:54		RC/JU	Ok,M
11	P5376-03DL	RE115D2-20241218DL	BN035854.D	26 Dec 2024 15:30		RC/JU	Ok,M
12	P5317-21DL	RE132D6-20241217DL	BN035855.D	26 Dec 2024 16:06		RC/JU	Ok,M
13	P5281-07DL	TT189D2-20241213DL	BN035856.D	26 Dec 2024 16:42		RC/JU	Ok,M
14	P5282-01DL	RW7-SP100-20241212	BN035857.D	26 Dec 2024 17:18		RC/JU	Ok,M
15	P5281-06DL	RE115D1-20241213DL	BN035858.D	26 Dec 2024 17:53		RC/JU	Ok,M
16	P5284-01DL	RW5-SP100-20241212	BN035859.D	26 Dec 2024 18:29		RC/JU	Ok,M
17	P5261-19DL	RE120D3-20241210DL	BN035860.D	26 Dec 2024 19:05		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN035861.D	26 Dec 2024 19:41		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM	
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM	
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165667

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#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 12/16/2024

Extraction Start Time : 11:30

Extraction End Date : 12/16/2024

Extraction End Time : 16:30

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6616
Surrogate	1.0ML	0.4 PPM	SP6666
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	E3845
Baked Na2SO4	N/A	EP2571
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/16/24	RP (Ext. Lab)	R/SVOC
16:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165667

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 12/16/2024

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165667BL	SBLK667	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-01
PB165667BS	SLCS667	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
P5280-01	BPOW6-7-20241212	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		3
P5280-02	BPOW6-8-20241212	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		4
P5280-03	BPOW6-11-20241212	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	C		5
P5280-04	P5280-03MS	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		6
P5280-05	P5280-03MSD	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		7
P5280-08	DUP-03-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		8
P5281-01	RE114D1-202412	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		9
P5281-02	BPOW1-7-202412	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		10
P5281-03	BPOW1-8-202412	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		11
P5281-04	TT101D2-202412	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		12
P5281-05	RE117D1-202413	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		13
P5281-06	RE115D1-202413	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		14
P5281-07	TT189D2-202413	SVOC-SIMGrou p1	880	6	RUPESH	ritesh	1	C		15
P5281-08	FB02-20241213	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		16
P5282-01	RW7-SP100-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-01
P5282-02	RW7-SP201-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
P5282-03	RW7-SP302-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
P5282-04	RW7-SP303-20241212	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1			4
P5284-01	RW5-SP100-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
P5284-02	RW5-SP201-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			6
P5284-03	RW5-SP100-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			7

* **Extracts relinguished on the same date as received.**

12/16/24

11:30
16/6/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5280 **WorkList ID :** 186371 **Department :** Extraction **Date :** 12-16-2024 11:25:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5280-01	BPOW6-7-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-02	BPOW6-8-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-03	BPOW6-11-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-04	P5280-03MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-05	P5280-03MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-08	DUP-03-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5281-01	RE114D1-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-02	BPOW1-7-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-03	BPOW1-8-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-04	TT101D2-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-05	RE117D1-202413	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5281-06	RE115D1-202413	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5281-07	TT189D2-202413	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5281-08	FB02-20241213	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5282-01	RW7-SP100-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5282-02	RW7-SP201-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5282-03	RW7-SP302-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5282-04	RW7-SP303-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5284-01	RW5-SP100-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/12/2024	8270-Modified
P5284-02	RW5-SP201-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/12/2024	8270-Modified
P5284-03	RW5-SP100-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/12/2024	8270-Modified

Date/Time 12/16/24 11:27
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by:

Date/Time 12/16/24 12:00
Raw Sample Received by:
Raw Sample Relinquished by: RS (Ext Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : P5281

Test : SVOC-SIMGroup1

Prepbatch ID : PB165667,

Sequence ID/Qc Batch ID: bn121924,BN122324,BN122624,

Standard ID :
EP2559,EP2565,EP2571,SP6527,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3759,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S11011,S11074,S11097,S11494,S11792,S11831,S12029,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,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	EP2571	12/11/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	Yogesh Patel 12/16/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 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
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 09/11/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11792 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 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
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel 10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 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
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = 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
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = 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
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = 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
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = 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
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = 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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

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	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

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	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/21/2025	08/21/2024 / Jagrut	11/21/2023 / Rahul	S11792

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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

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	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

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	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	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 #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

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	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

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	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Received on 02/07/23 by CG

~~S11088~~ S11096 to S11099

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	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/18/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

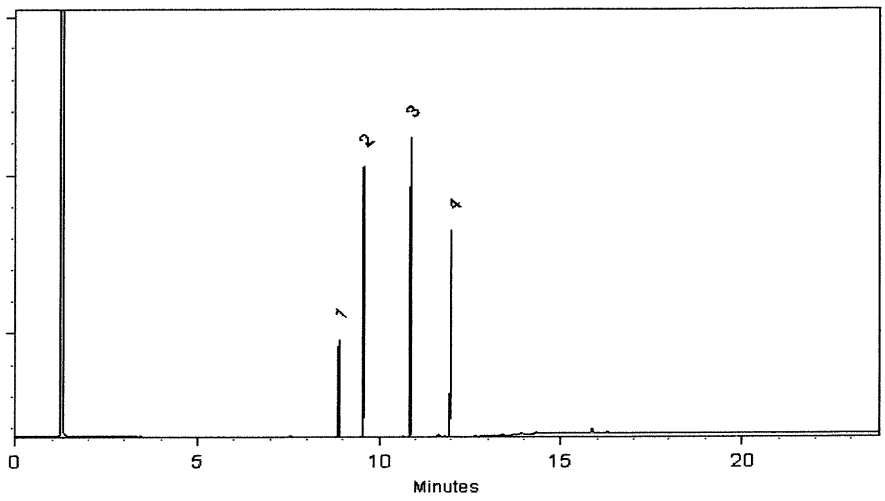
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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)

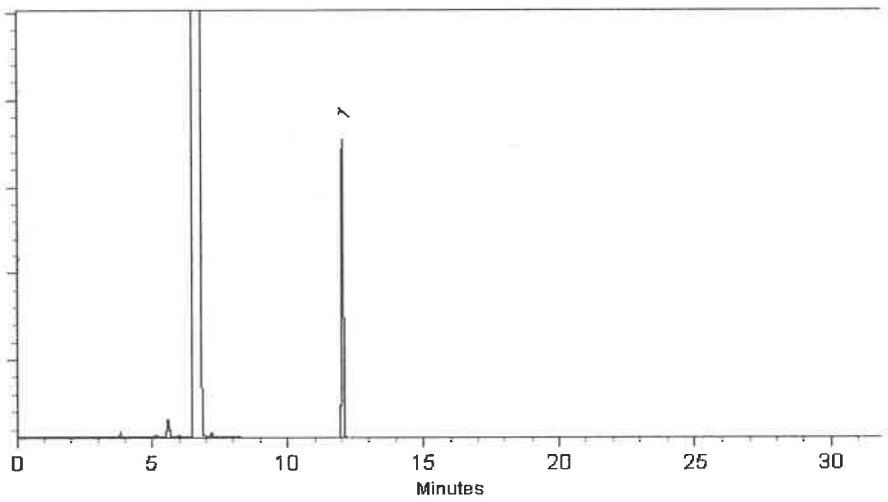
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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: 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.

Received on 01/13/23 by CG S11011 to S11015

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 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	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I **Date Mixed:** 11-Jan-2023 **Balance:** B442140311

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.

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.

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
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 Heptachlor Epoxide) 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	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

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.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

PO: PO2-329 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

Recd. by RP on 10/9/24

E 3818

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

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.)

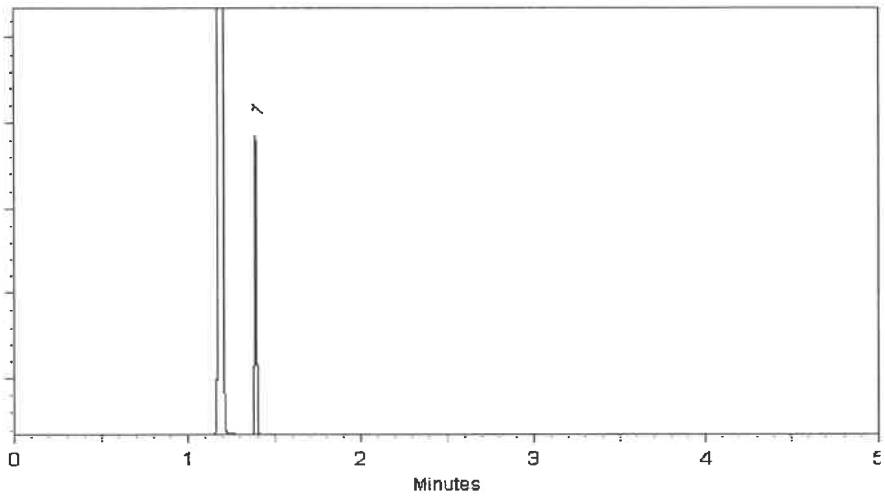
Inj. Temp:
250°C

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

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. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 } RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 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	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* 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.)

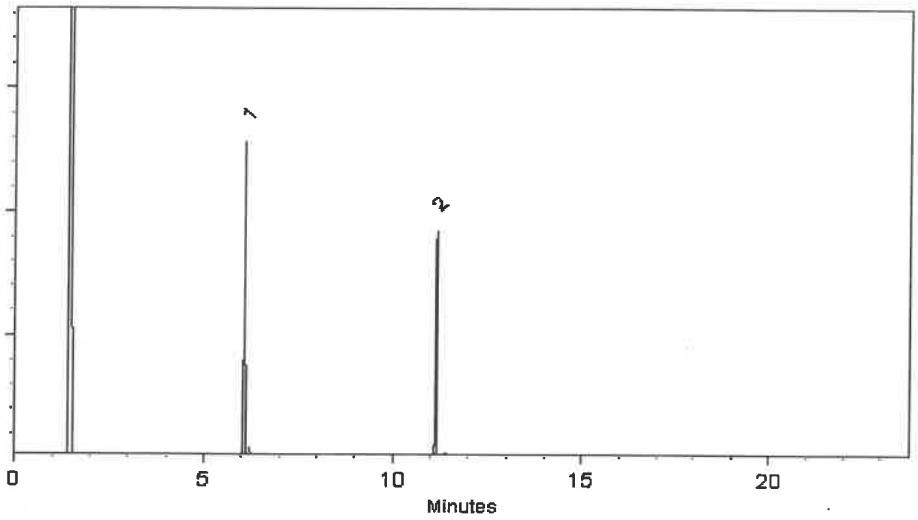
Inj. Temp:
250°C

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.

Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-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. : 31206 **Lot No.:** A0201320

S12013 ↓ S12042 RC 12/26/23

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 : July 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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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.)

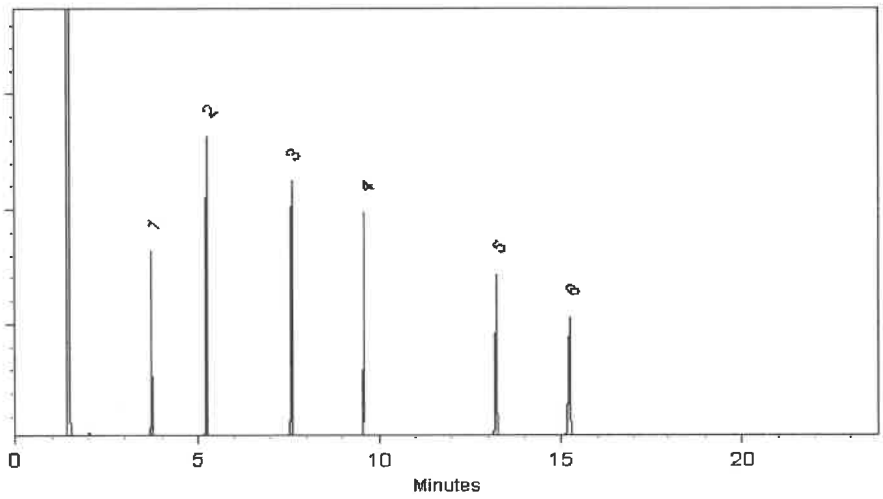
Inj. Temp:
250°C

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

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-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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-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

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.)

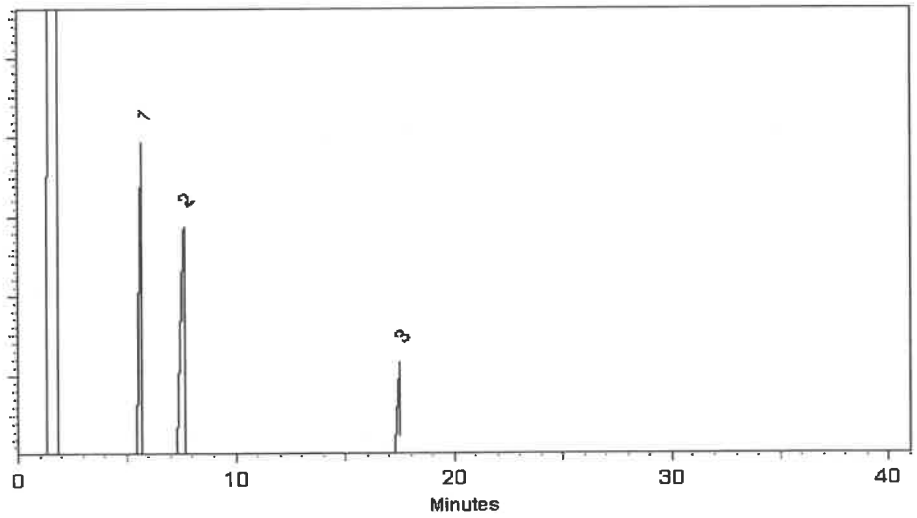
Inj. Temp:
250°C

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.)

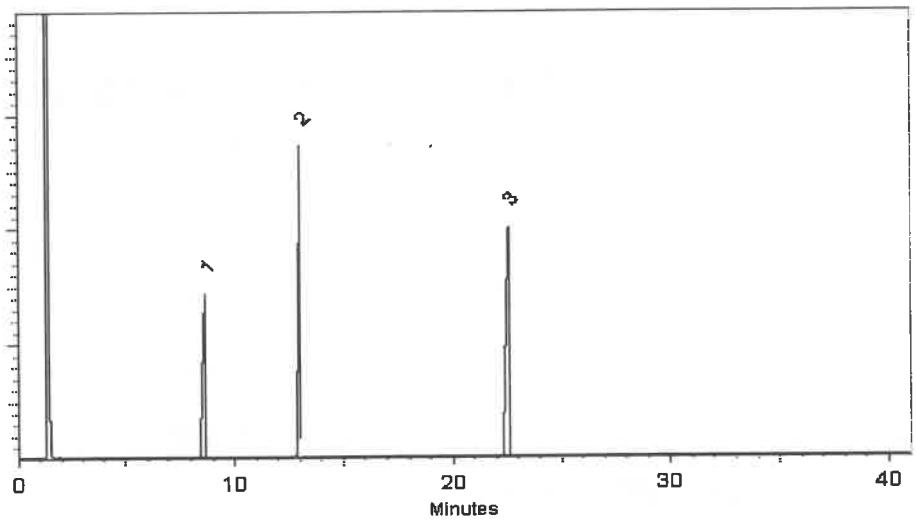
Inj. Temp:
250°C

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

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.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

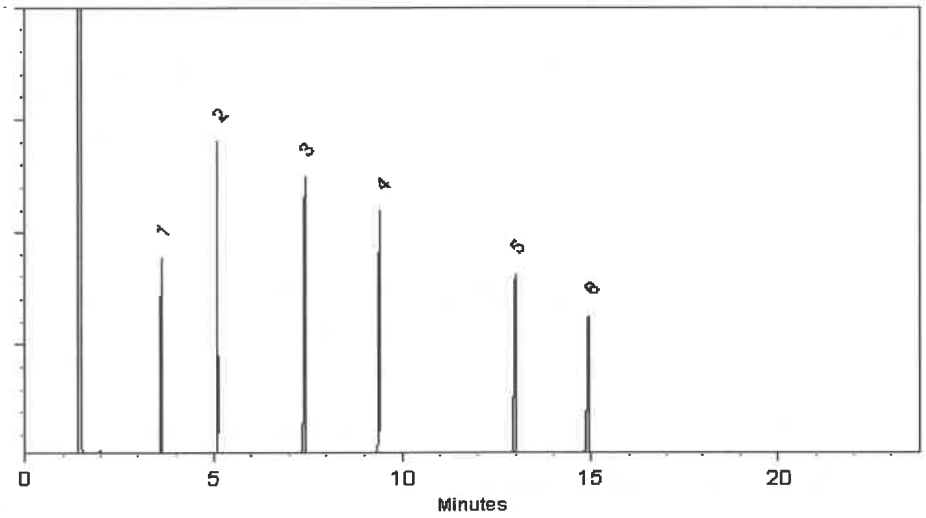
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. PS281
COC Number 2041250

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION:
PROJECT MANAGER: ELEANOR VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☒ EDD FORMAT NYSDEC EDD CAT B

ANALYSIS

1 VOCs 8260
2 1,4 DIOXANE SIM 8270
3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/G	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RE117D1-20241212	GW		X	12-12-24	1310	3	2	1								
2.	BPOW1-7-20241212	GW		X		1345	3	2	1								
3.	BPOW1-8-20241212	GW		X		1314	3	2	1								
4.	TT101D2-20241212	GW		X		1335	3	2	1								
5.	RE117D1-20241213	GW		X	12-13-24	0945	3	2	1								
6.	RE115D1-20241213	GW		X		0975	3	2	1								
7.	TT189D2-20241213	GW		X		0909	3	2	1								
8.	FB02-20241213	DW		X		1030	3	2	1								
9.	FB	DW		X	09-13-24	—	2	2									
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12-13-24 1300	1. 12.13.24
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
3.	12.13.24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments:

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5281 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 12/13/2024 1:05:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 12/13/2024 ~~12:00:00~~ AM 17:05
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5281-01	RE114D1-20241212	Water	12/12/2024	13:10					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-02	BPOW1-7-20241212	Water	12/12/2024	13:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-03	BPOW1-8-20241212	Water	12/12/2024	13:14					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-04	TT101D2-20241212	Water	12/12/2024	13:35					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-05	~~RE117D1-20241312~~ RE117D1-20241213	Water	12/13/2024	09:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-06	~~RE115D1-20241312~~ RE115D1-20241213	Water	12/13/2024	09:25					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-07	~~TT189D2-20241312~~ TT189D2-20241213	Water	12/13/2024	09:09					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-08	FB02-20241213	Water	12/13/2024	10:30					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5281 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 12/13/2024 1:05:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 12/13/2024 ~~12:00:00 AM~~
Purchase Order : 17:05

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-09	~~FB~~ TB	Water	12/13/2024	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 12-16-24 955

Received By : [signature]
Date / Time : 12-16-24 9:55

Storage Area : **VOA Refridgerator Room**

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	#	80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

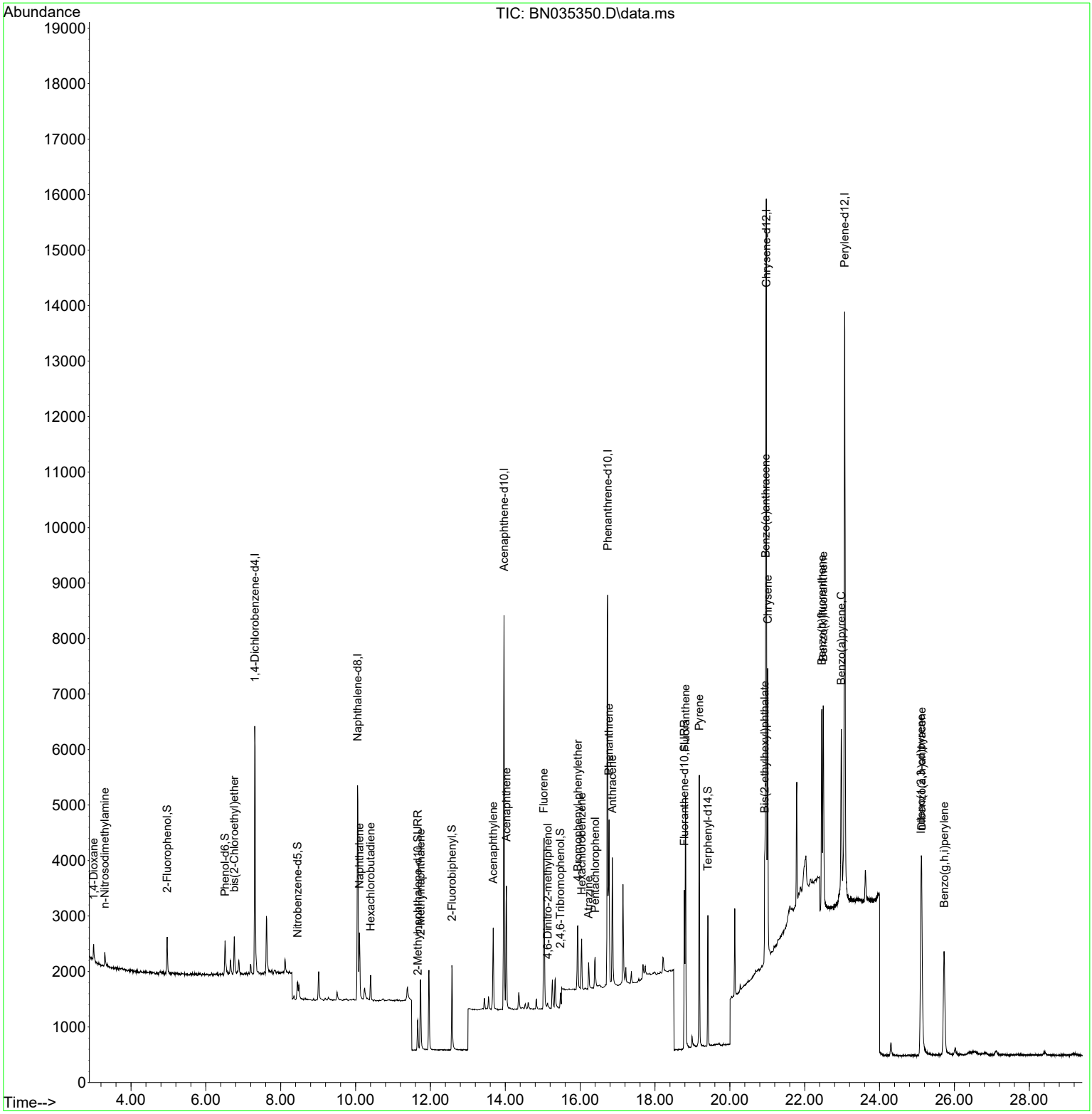
(#) = qualifier out of range (m) = manual integration (+) = signals summed

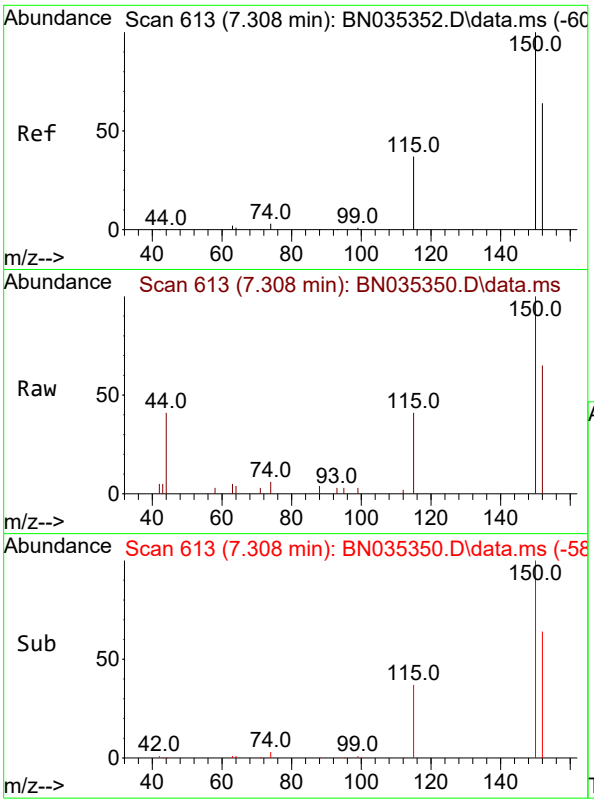
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



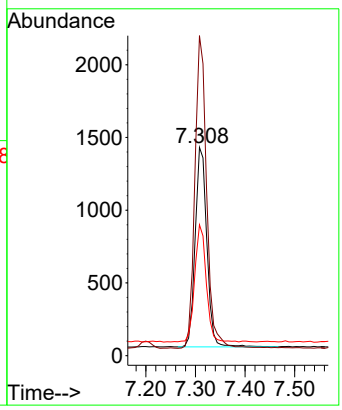


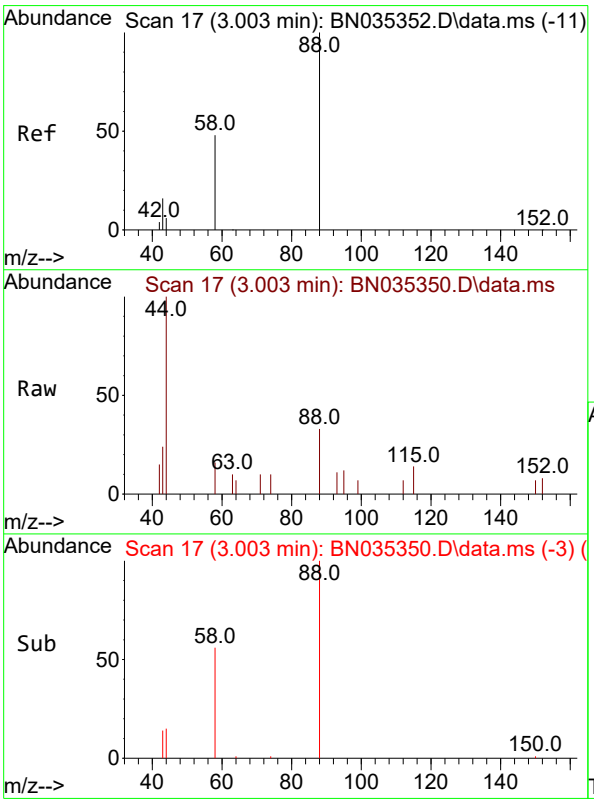
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2237

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4

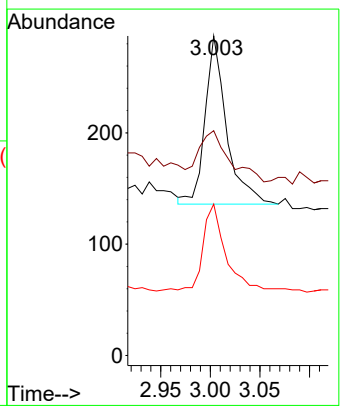


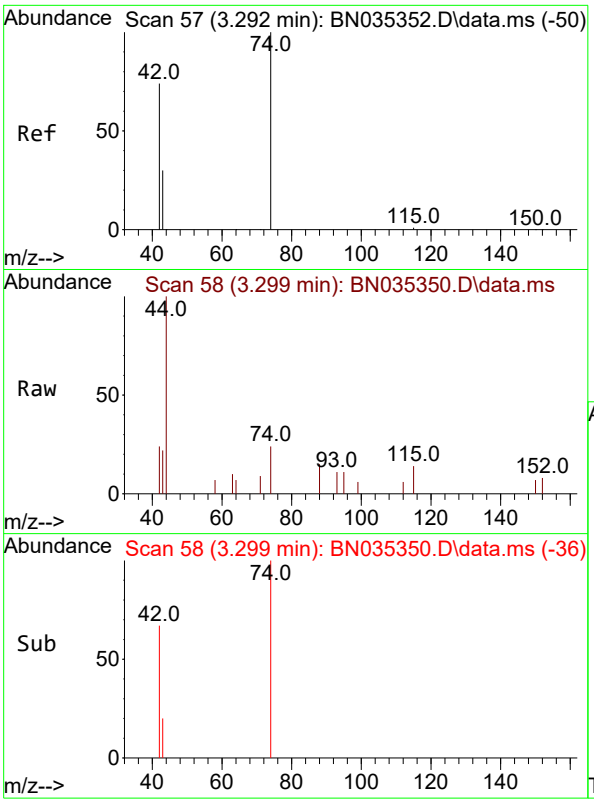


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7



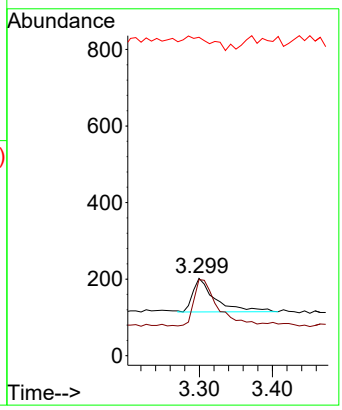


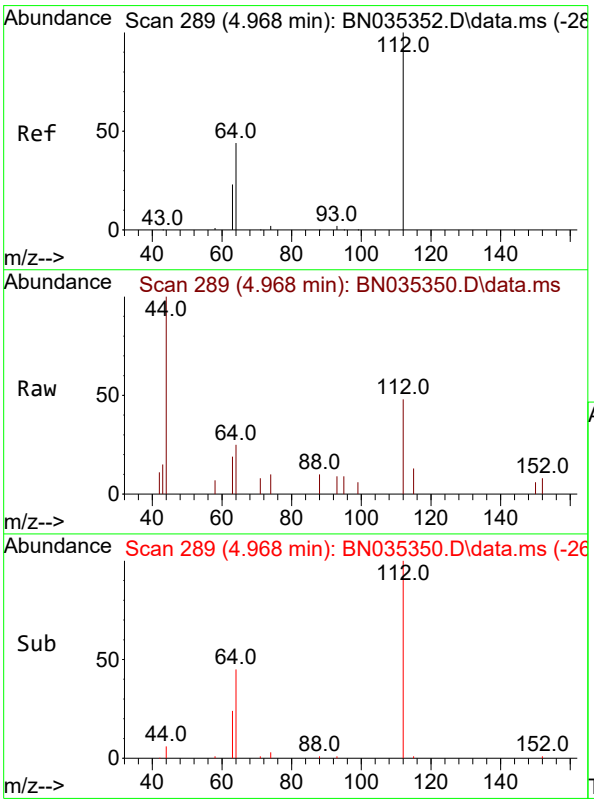
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 187

Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4#

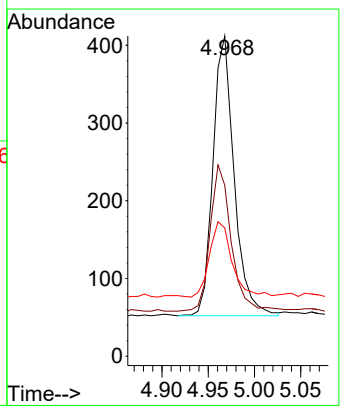


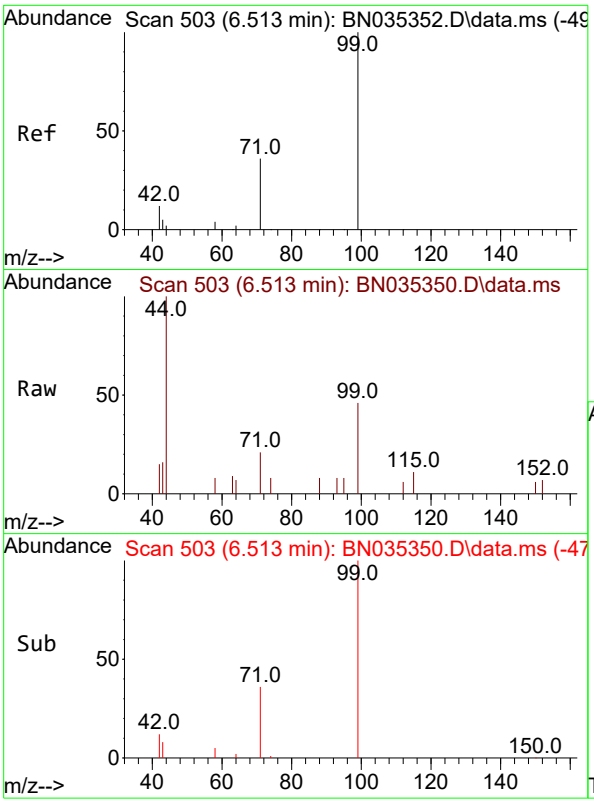


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6



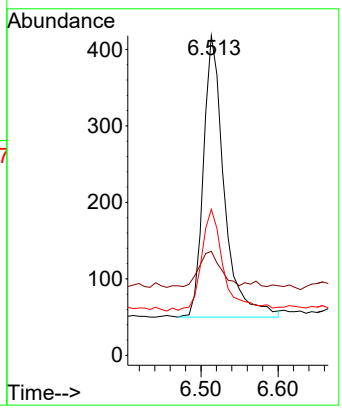


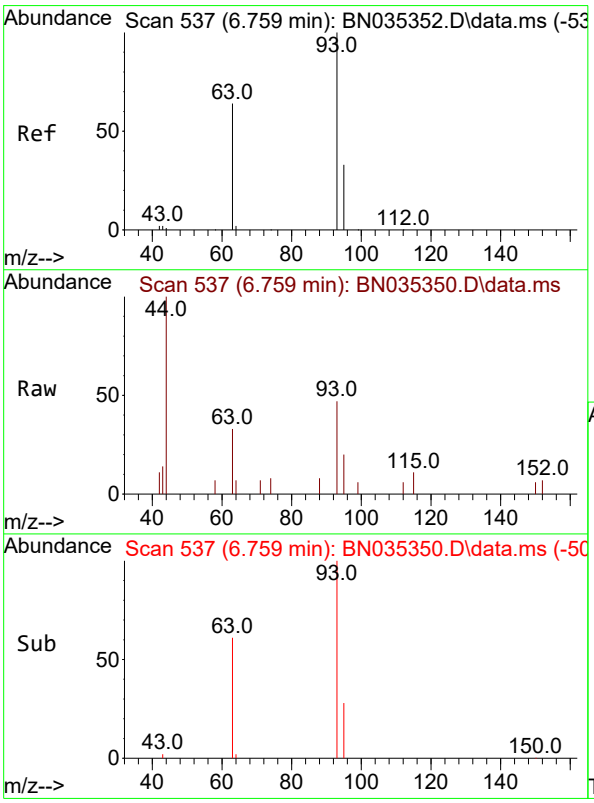
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 686

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9

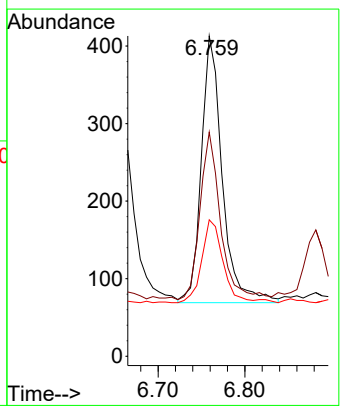


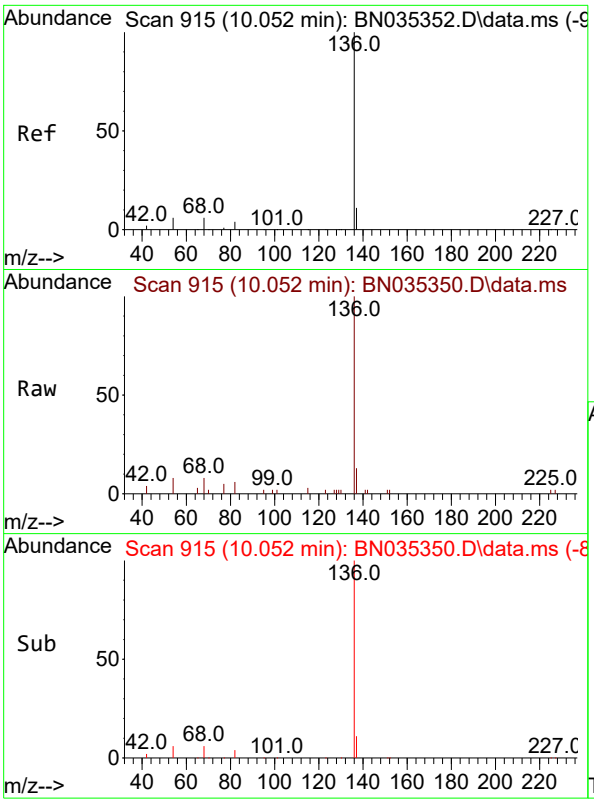


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5



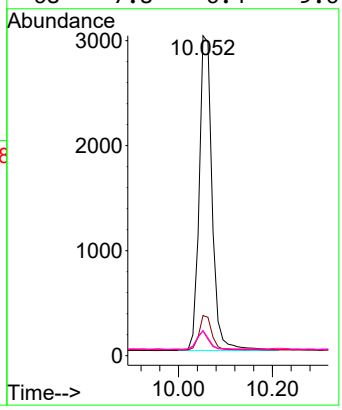


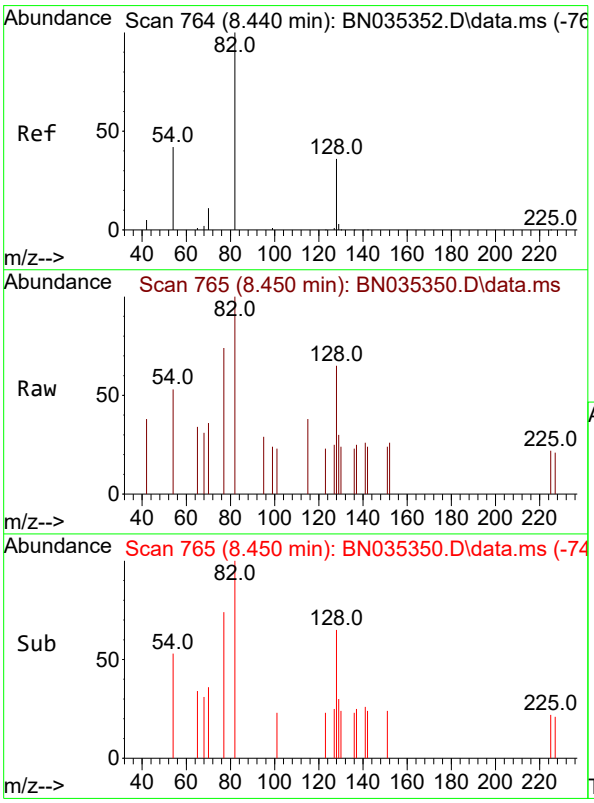
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5753

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

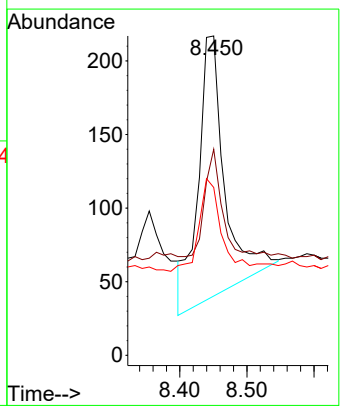


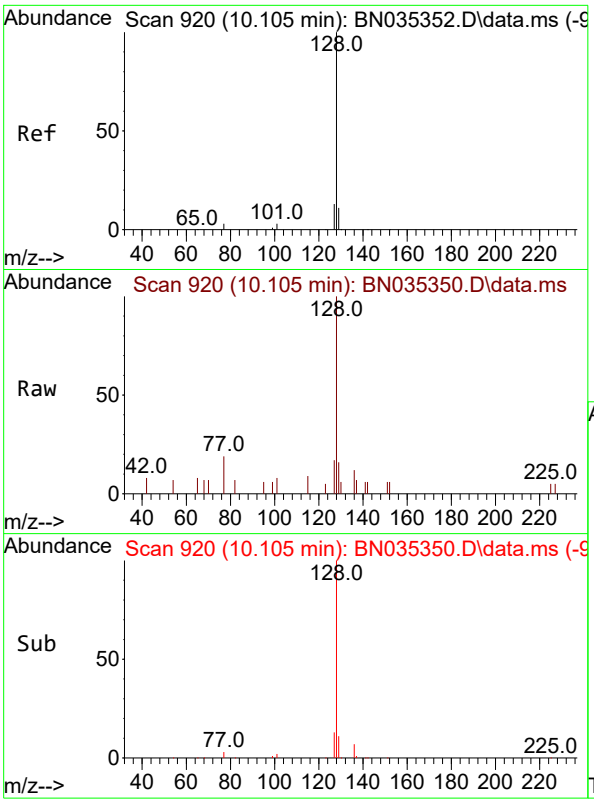


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1



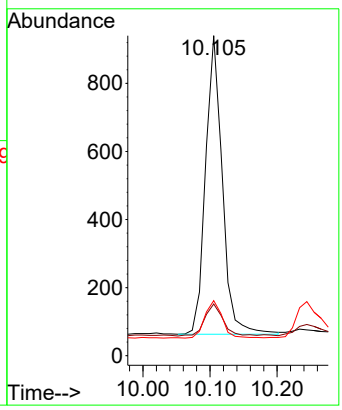


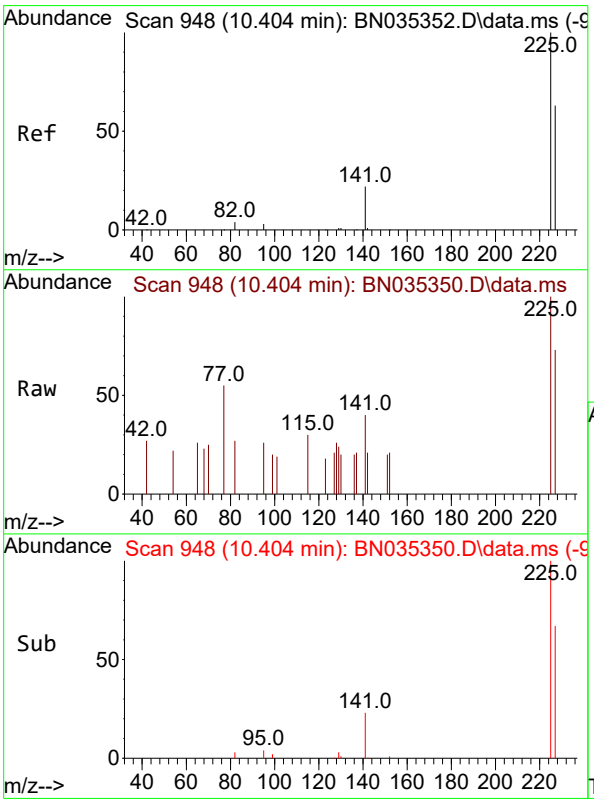
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1527

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#

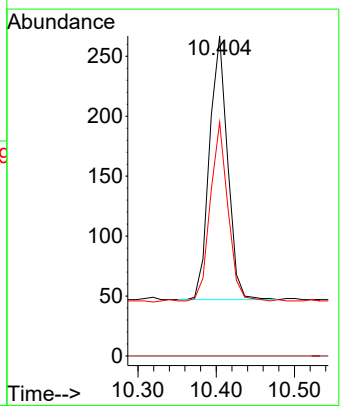


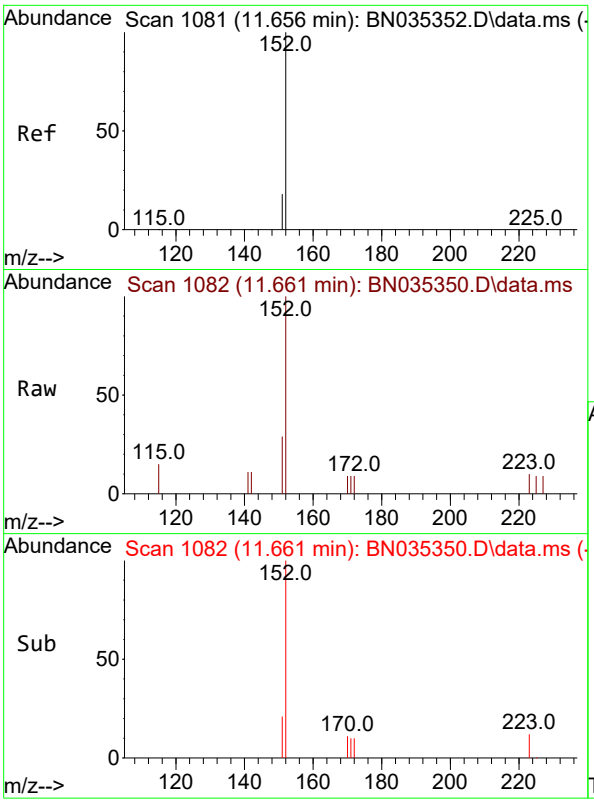


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9



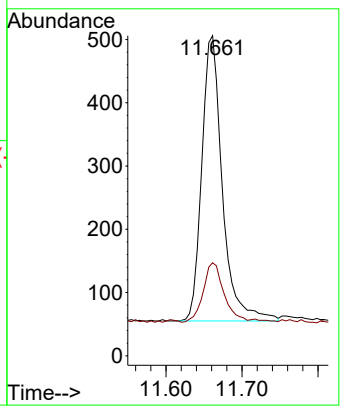


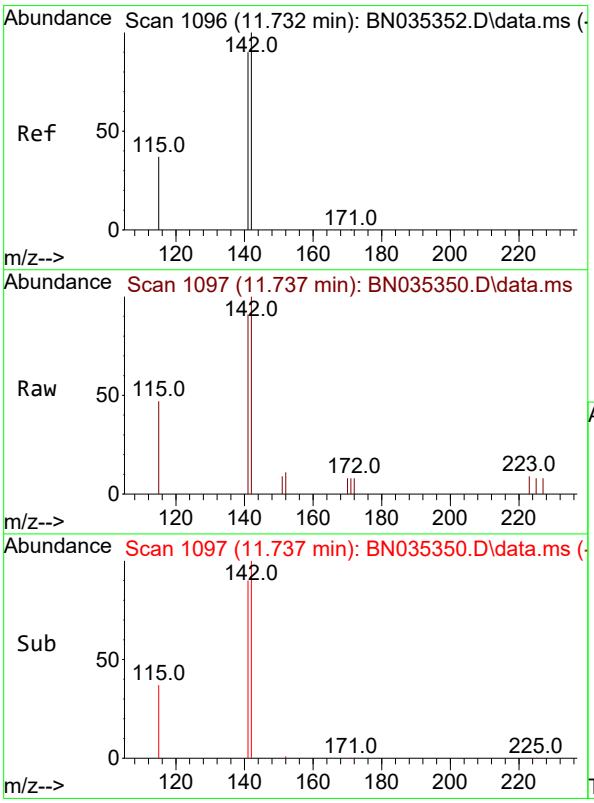
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

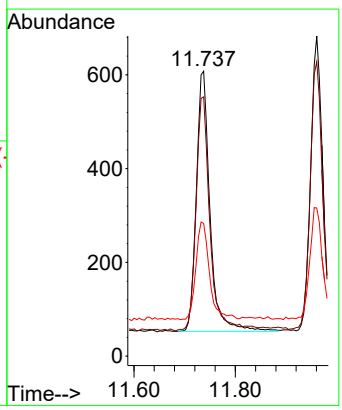


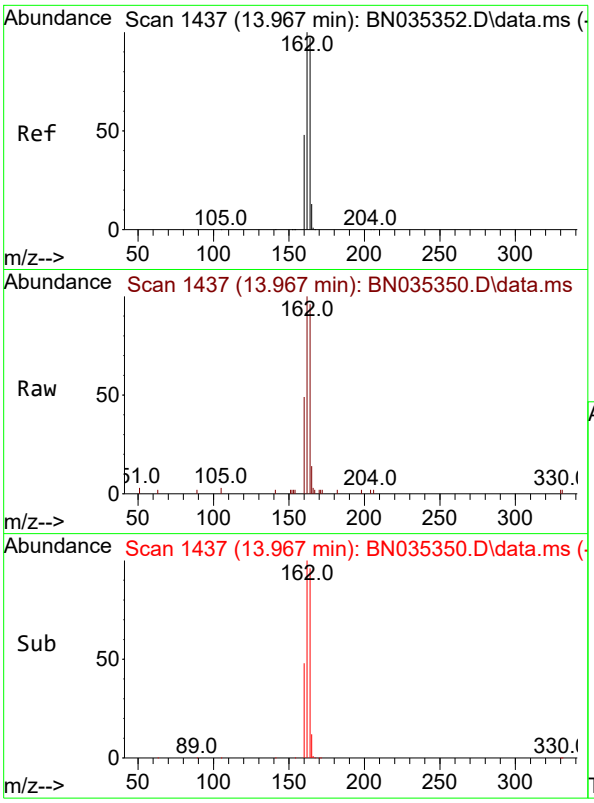


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0



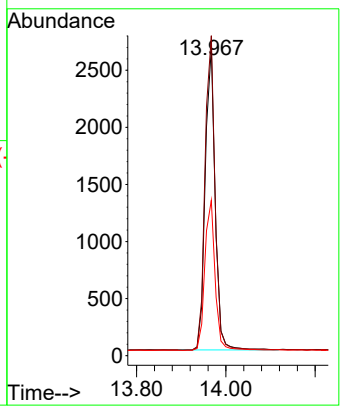


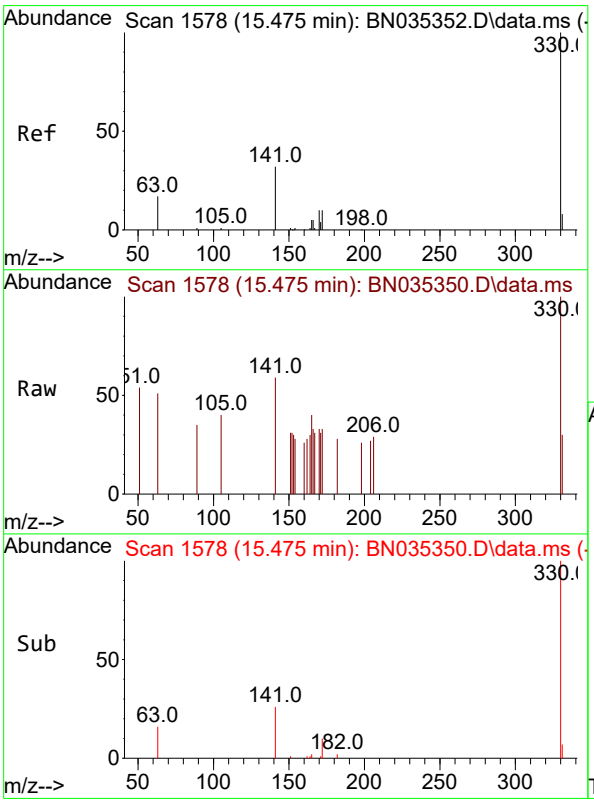
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 4077

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1

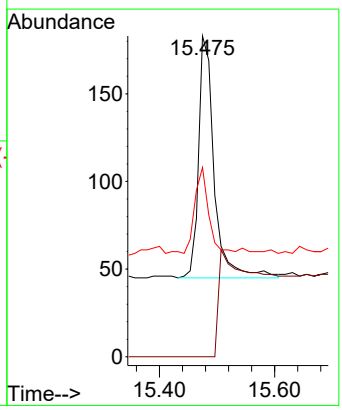


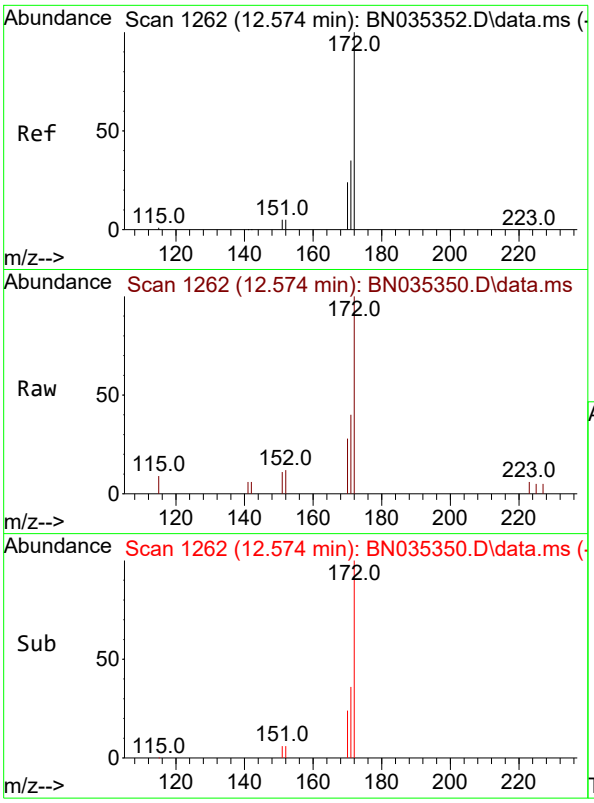


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0



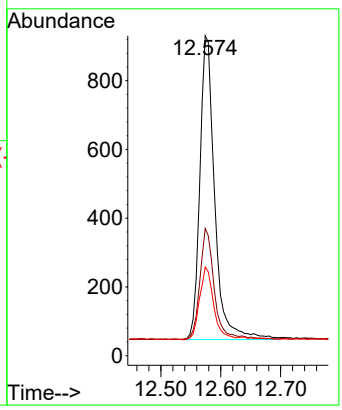


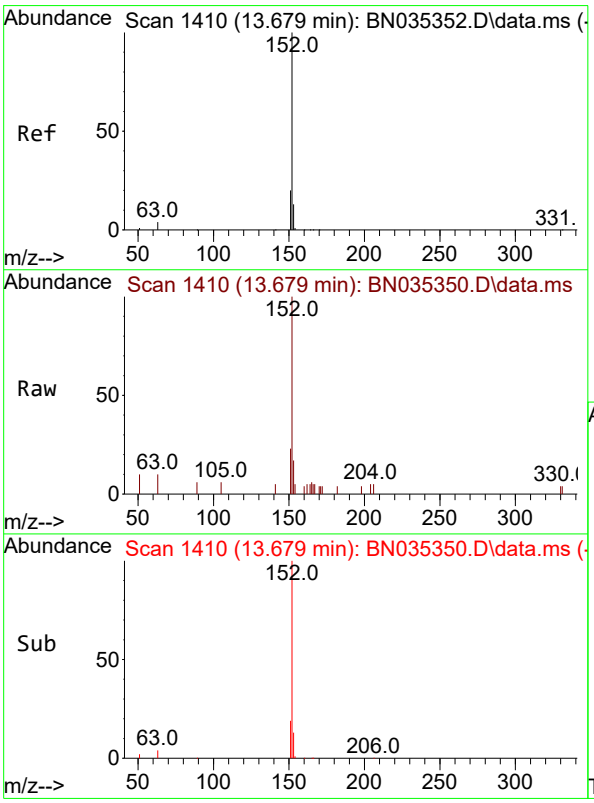
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1518

Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

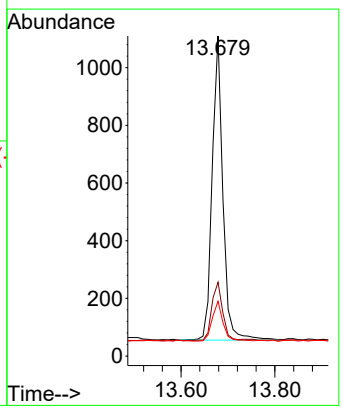


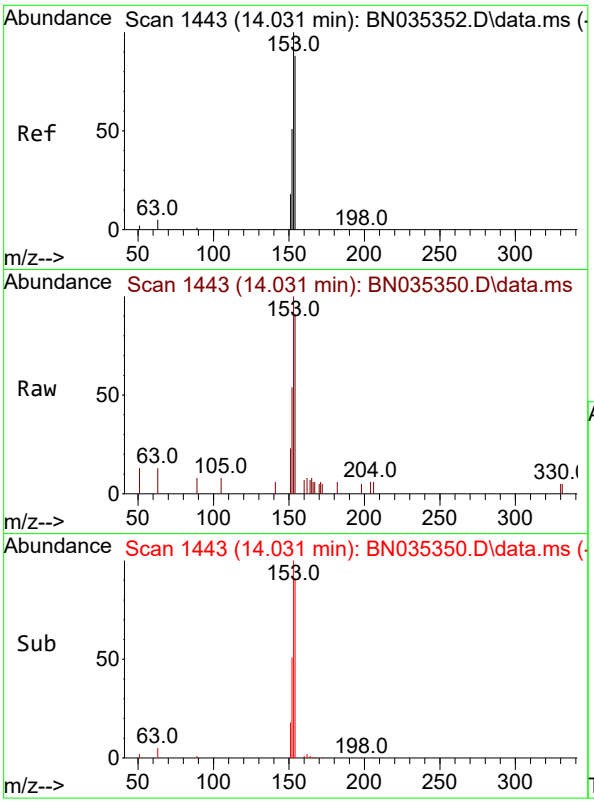


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6



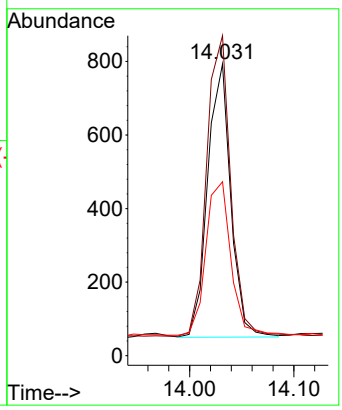


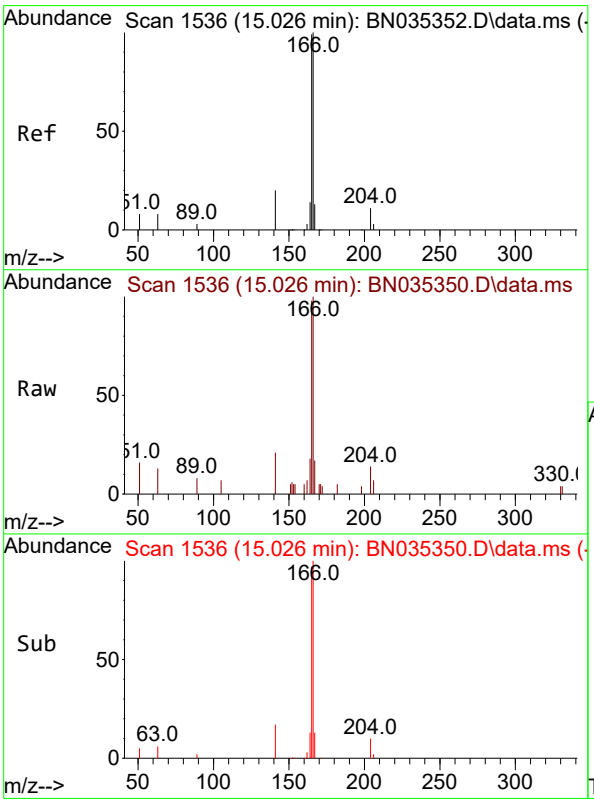
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1143

Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6

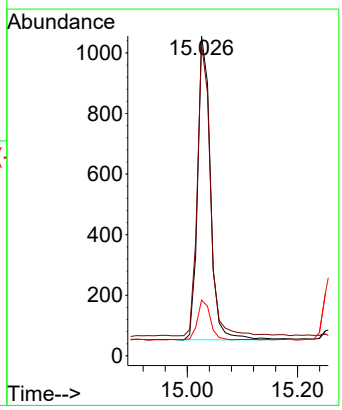


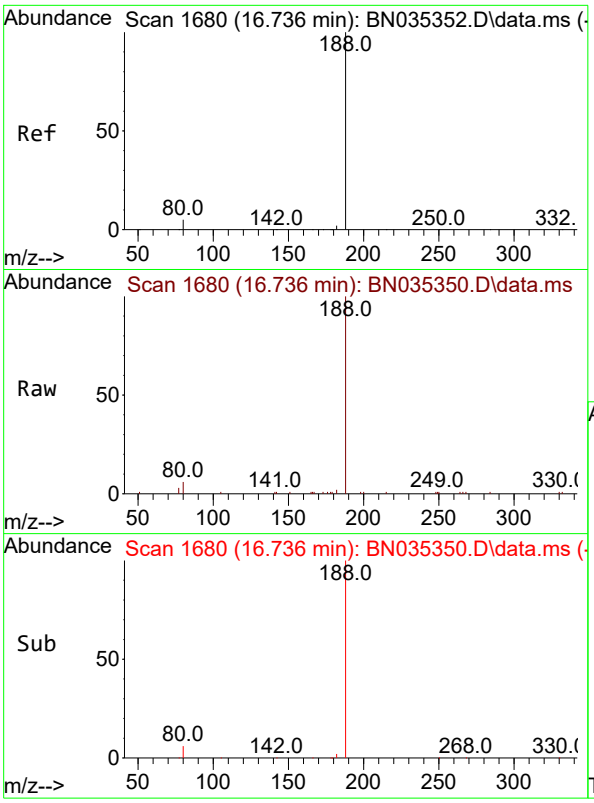


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2



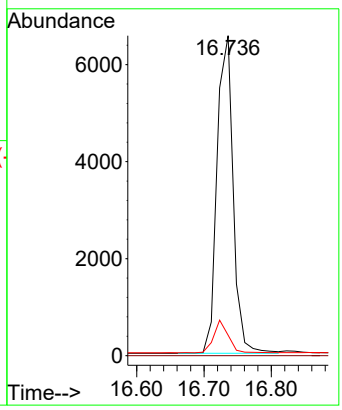


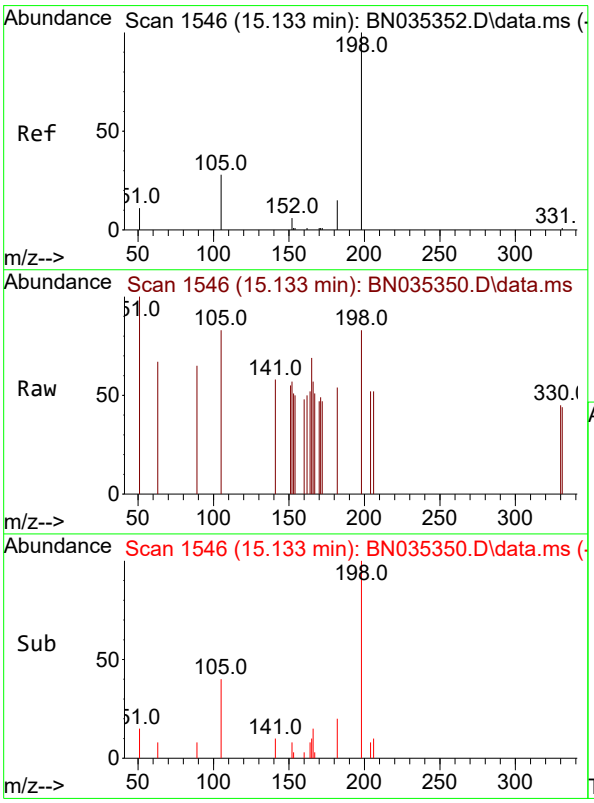
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8

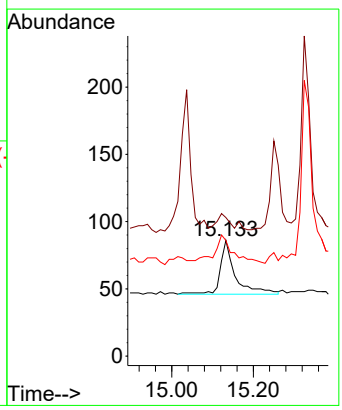


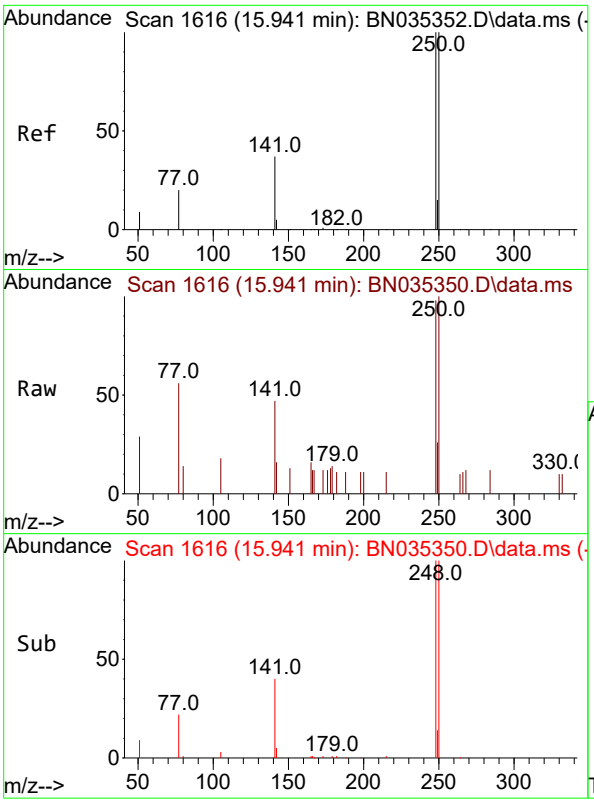


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#



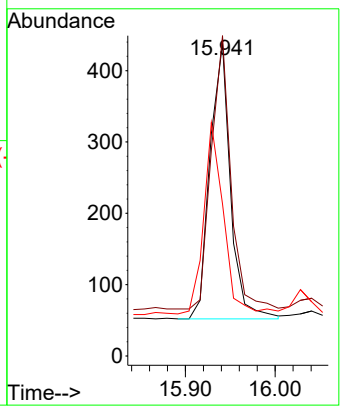


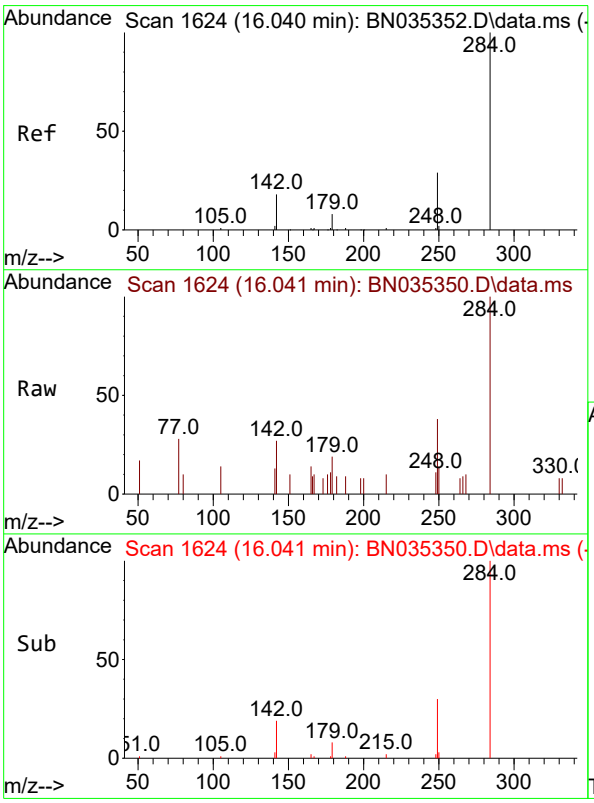
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#

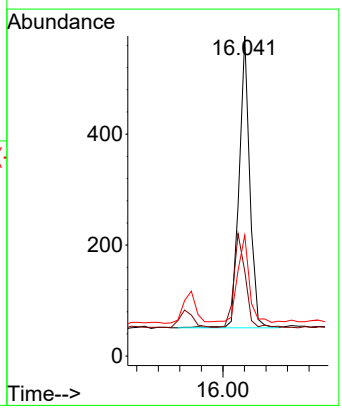


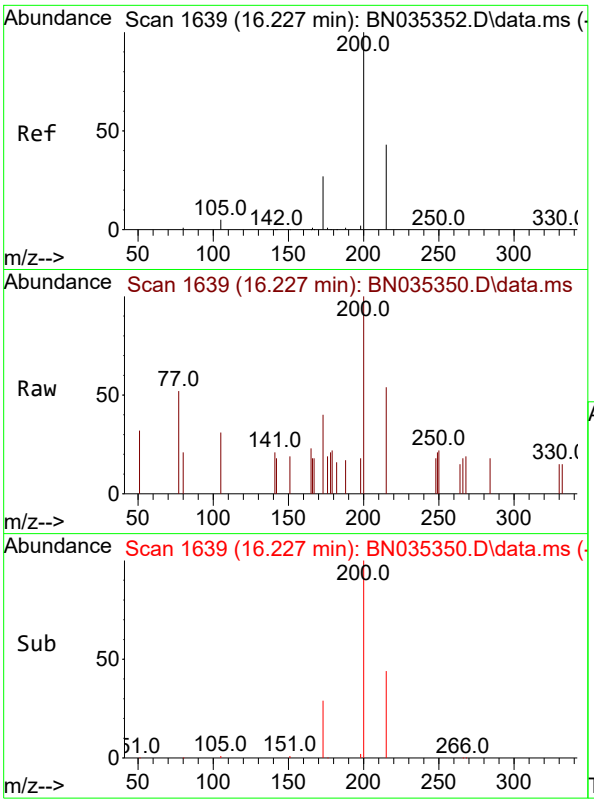


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8



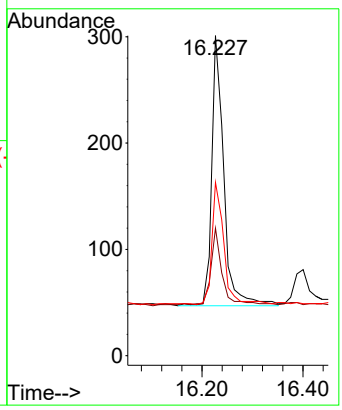


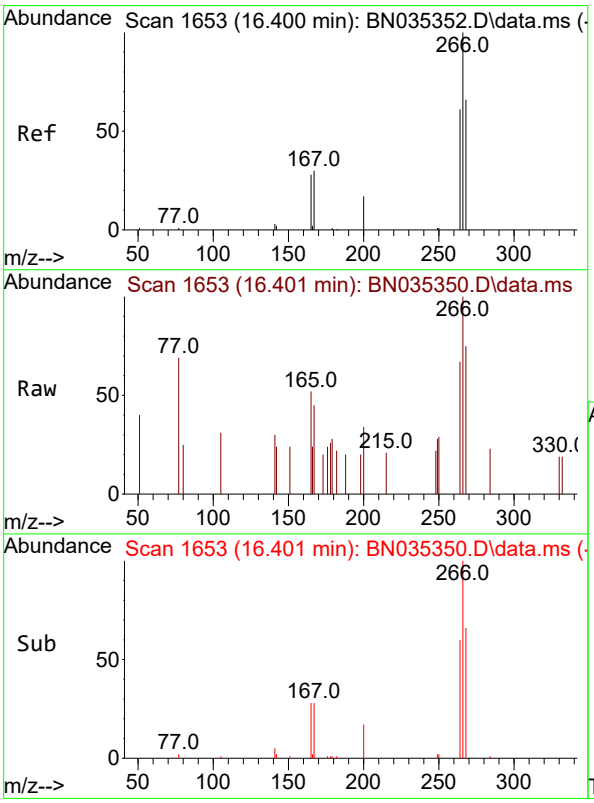
#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 421

Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1#
215	54.2	36.9	55.3

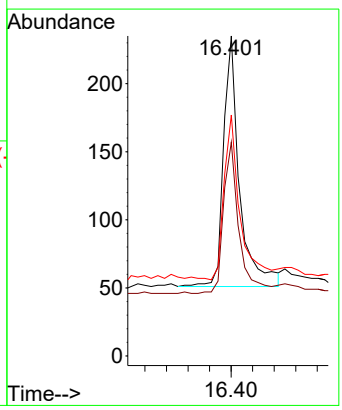


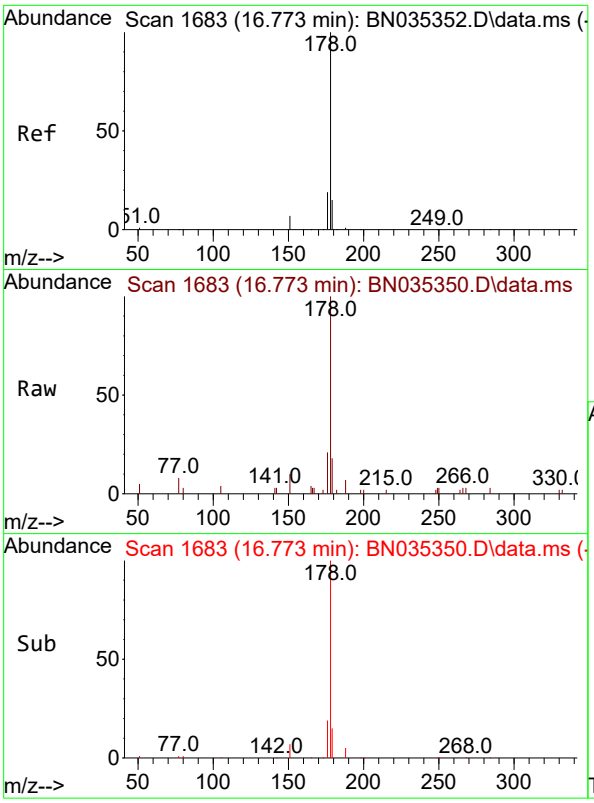


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9



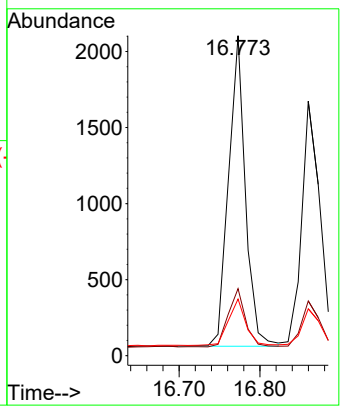


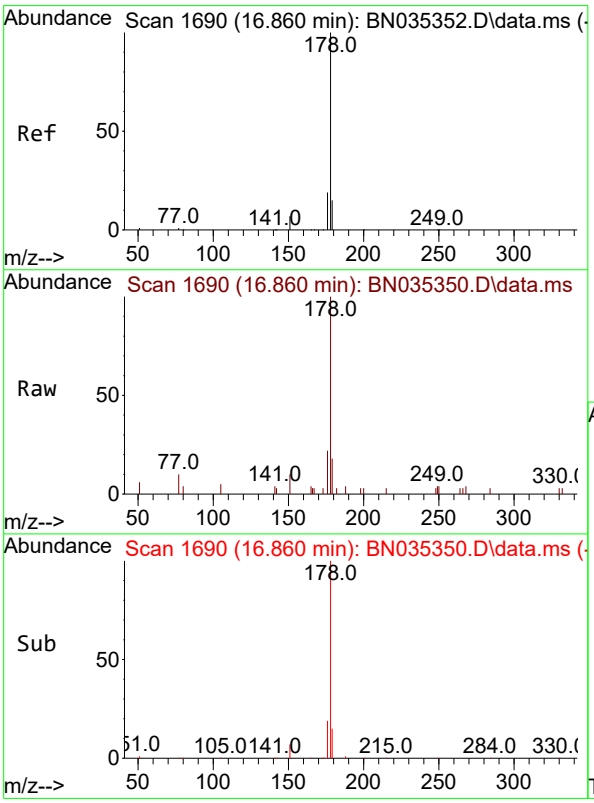
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2963

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5

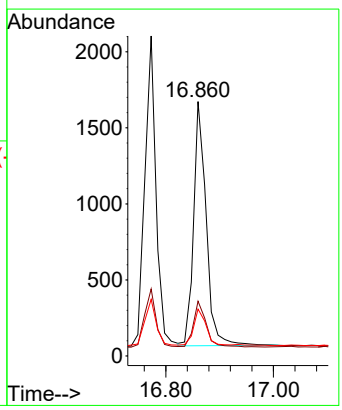


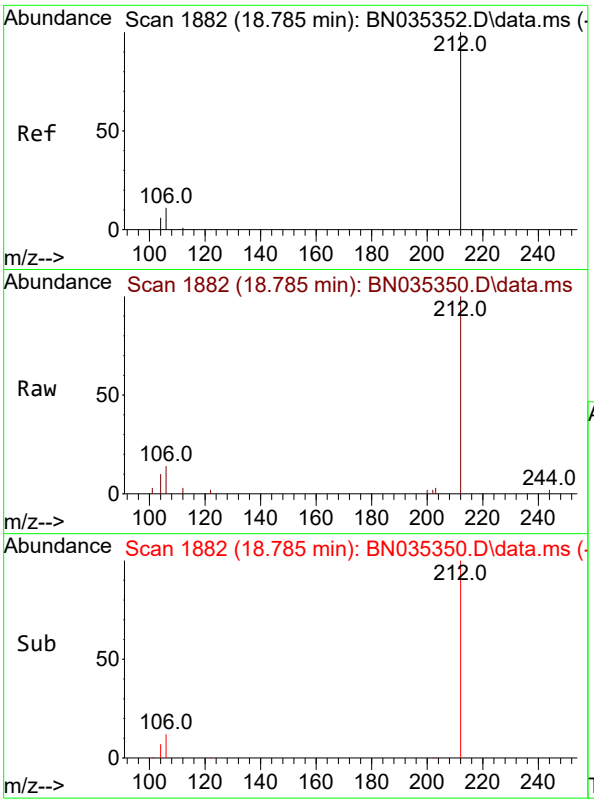


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8



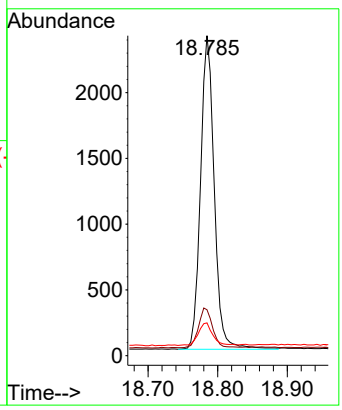


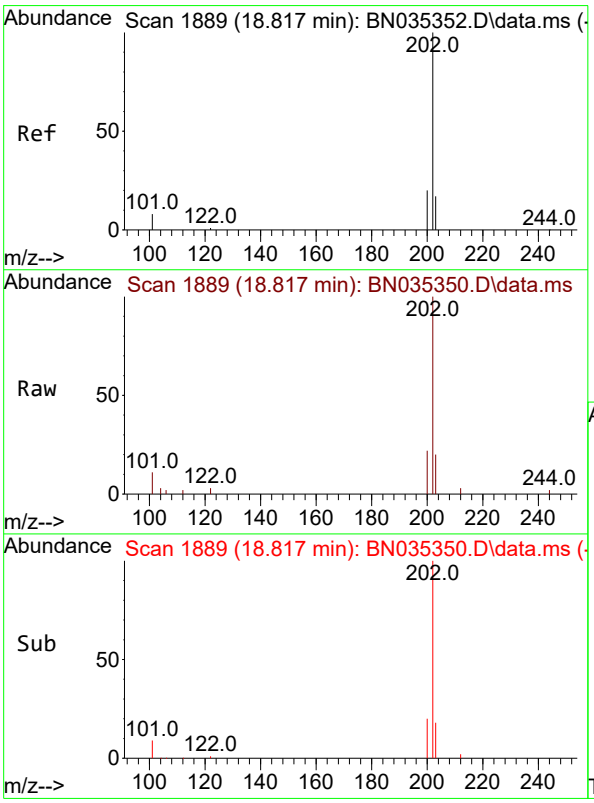
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3265

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

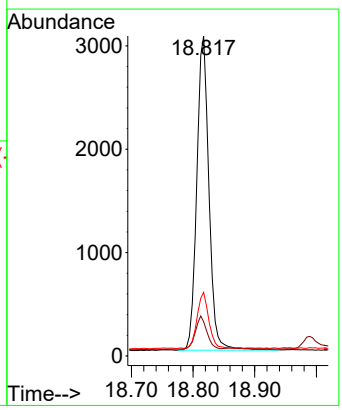


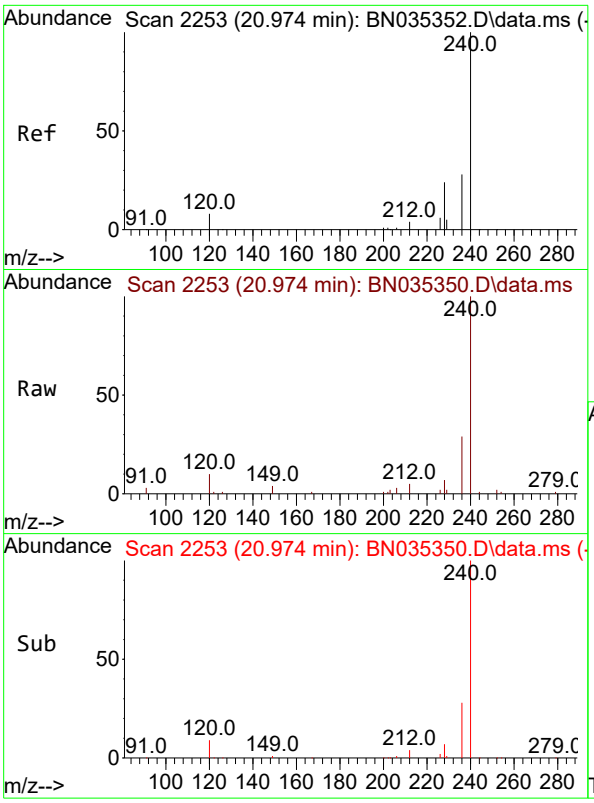


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5



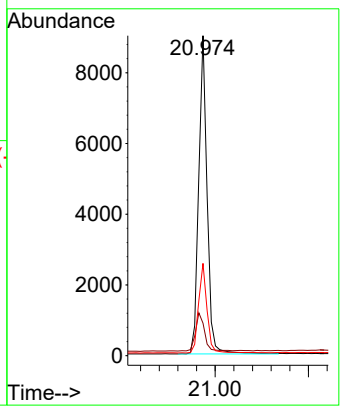


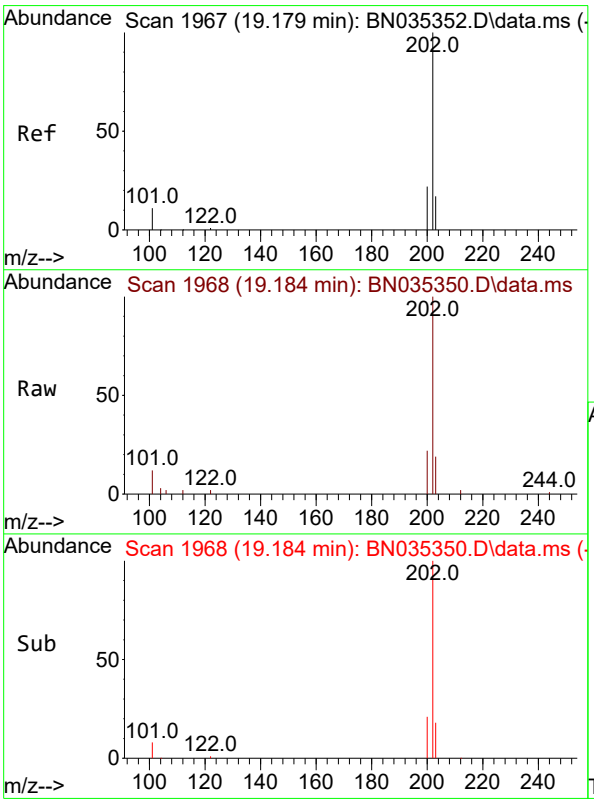
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11269

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3

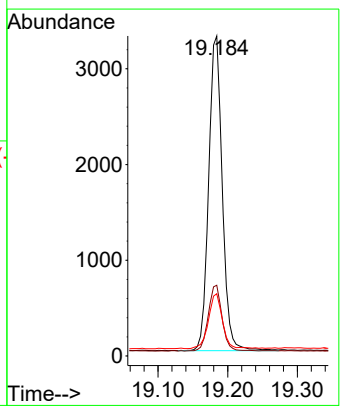


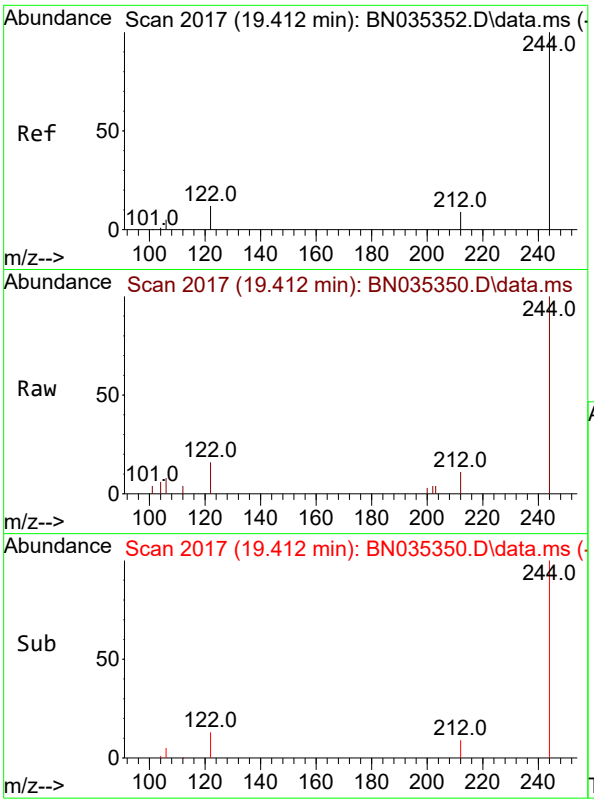


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



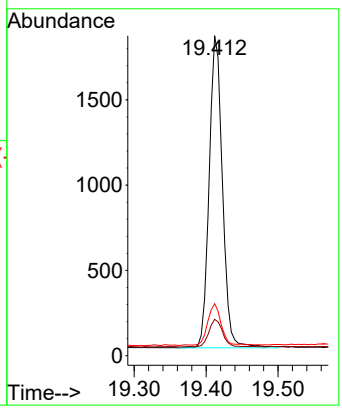


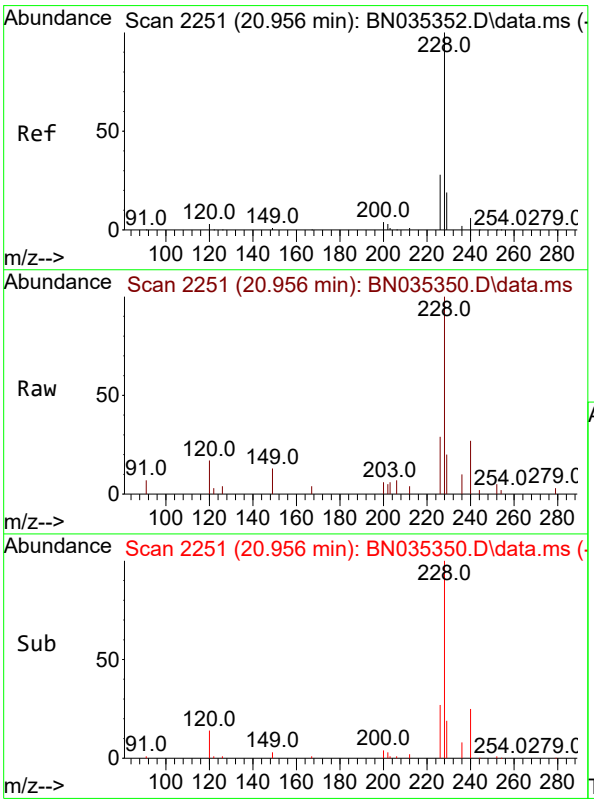
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2344

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5#

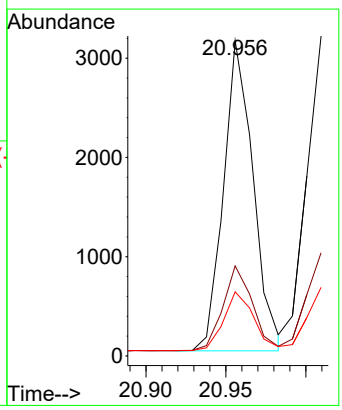


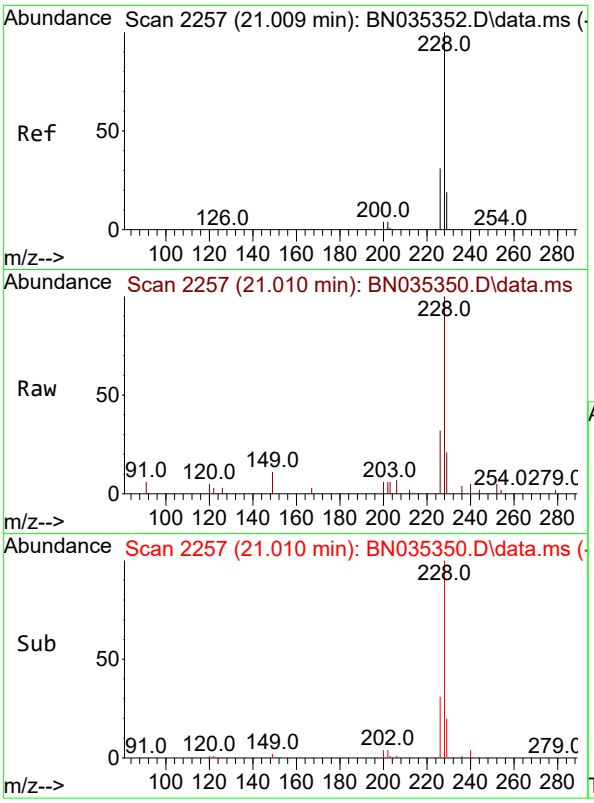


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8



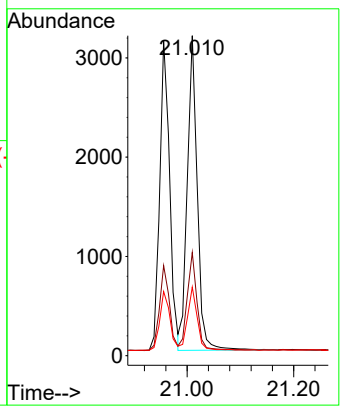


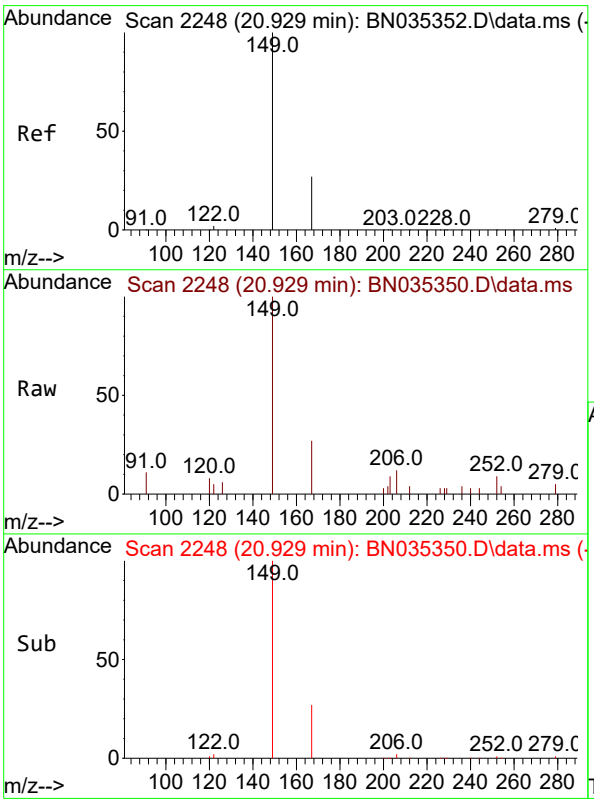
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4123

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9

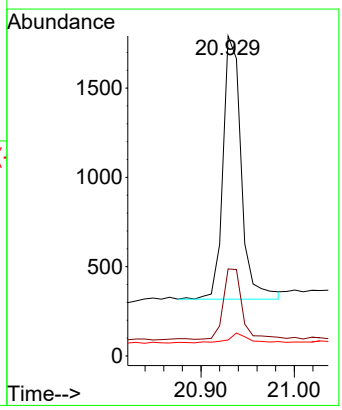


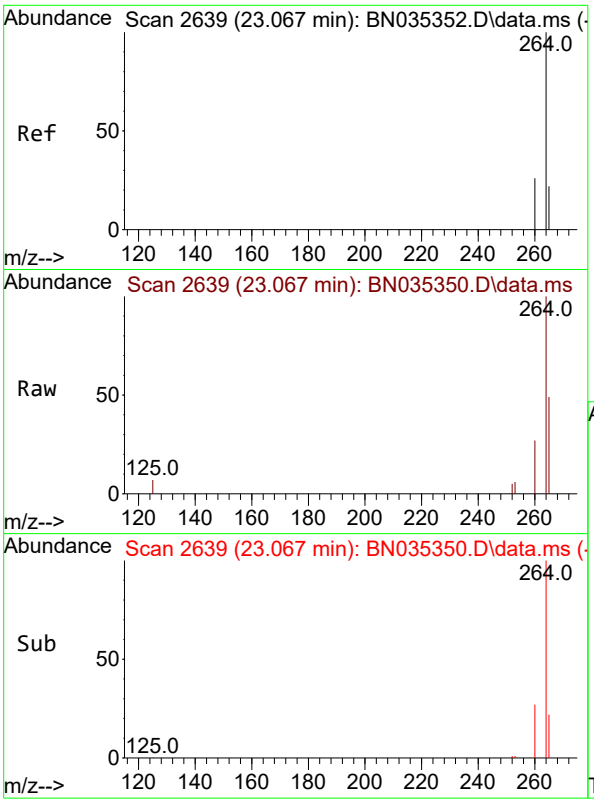


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1



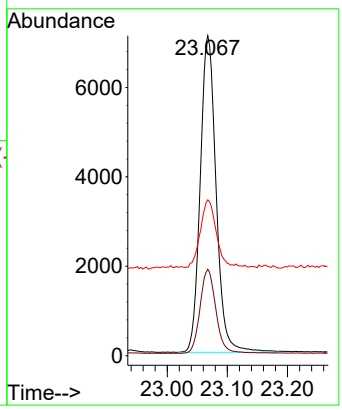


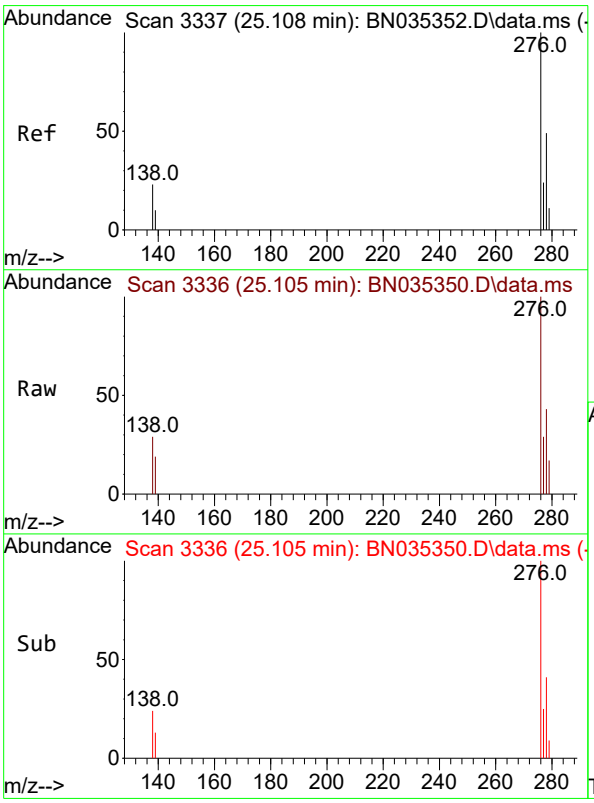
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 13004

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4

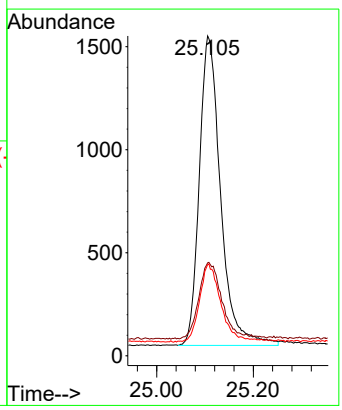


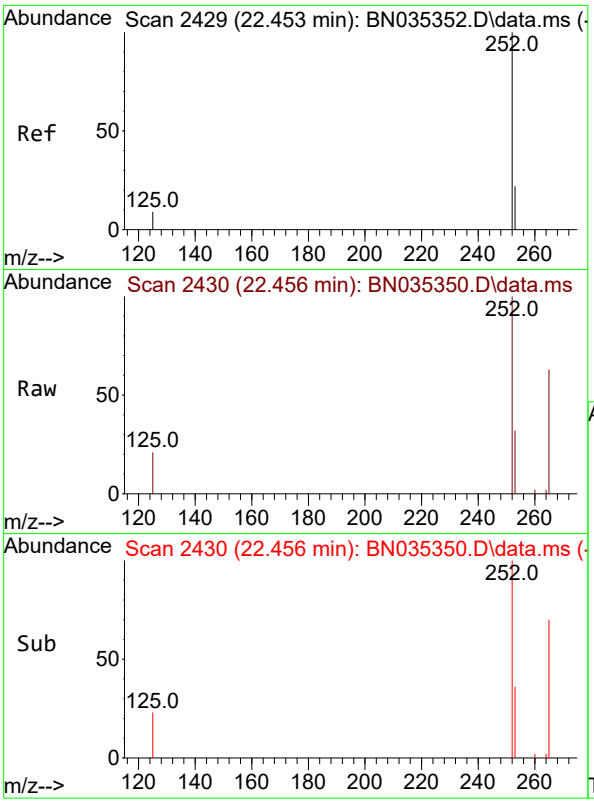


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6



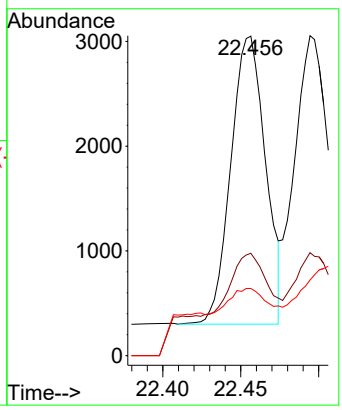


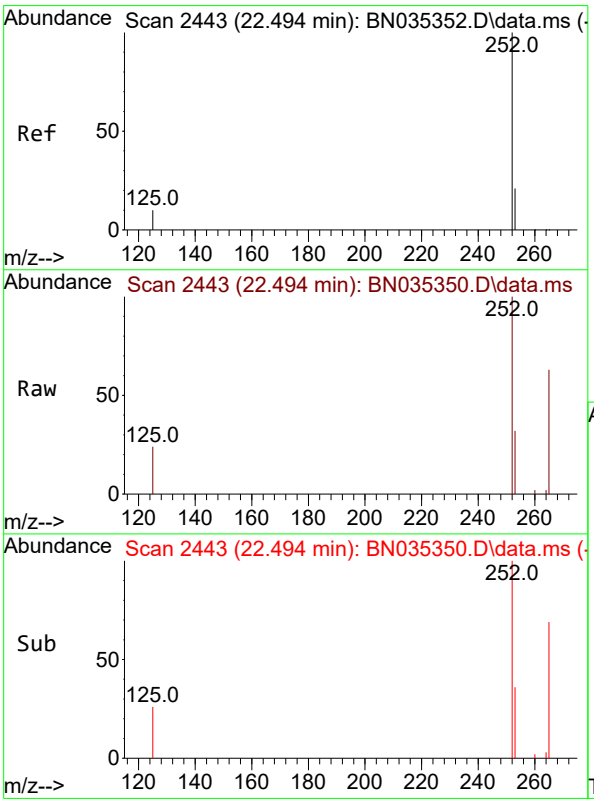
#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4243

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

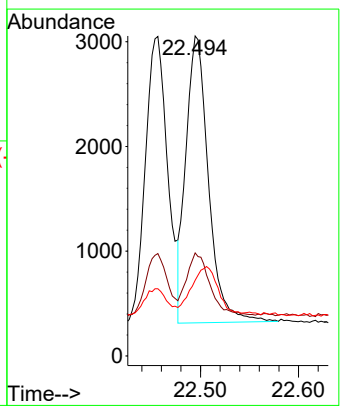


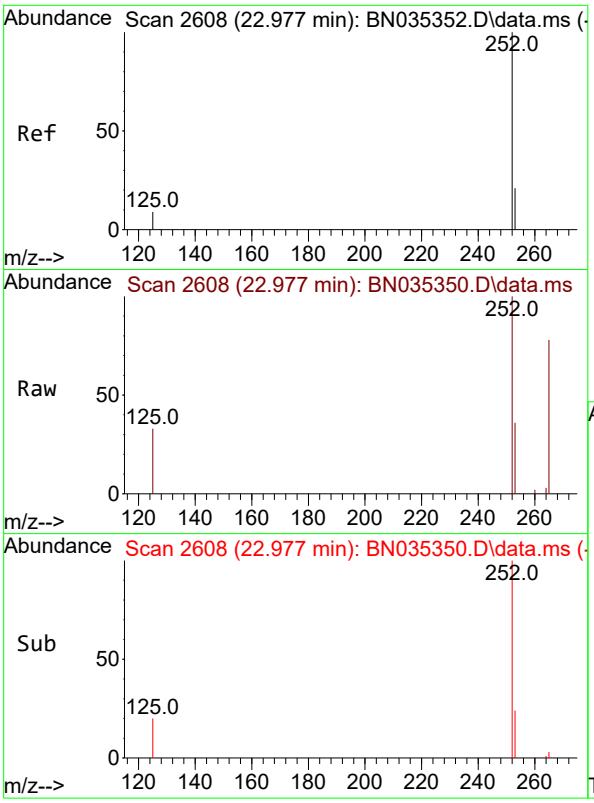


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#



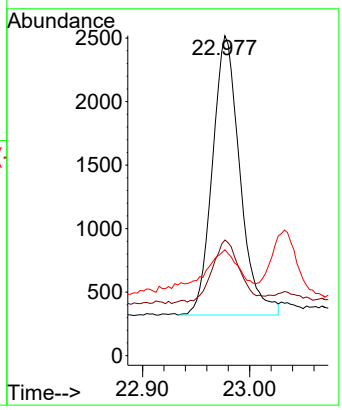


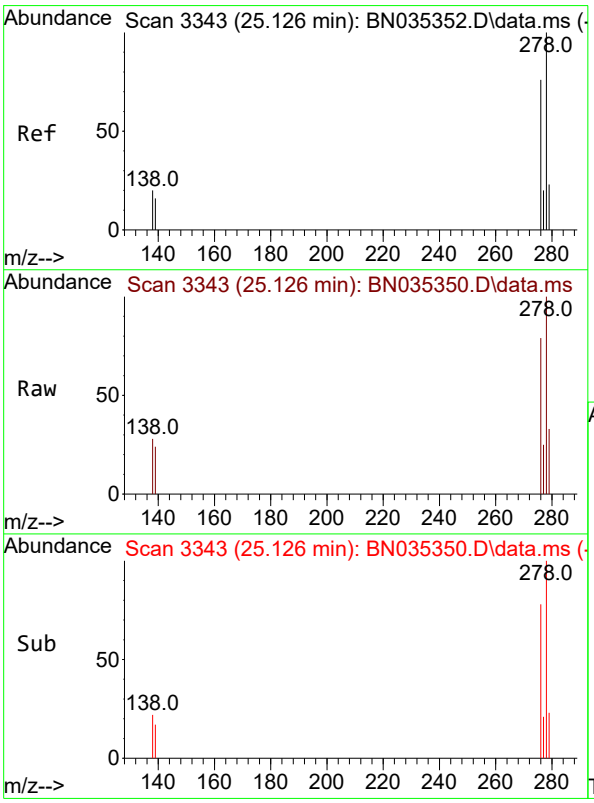
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3913

Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#

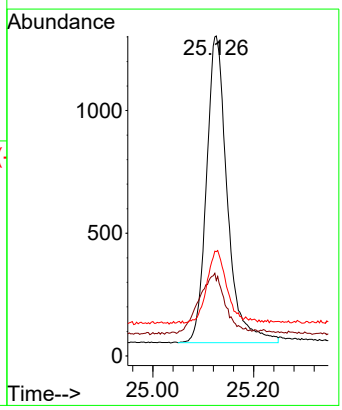


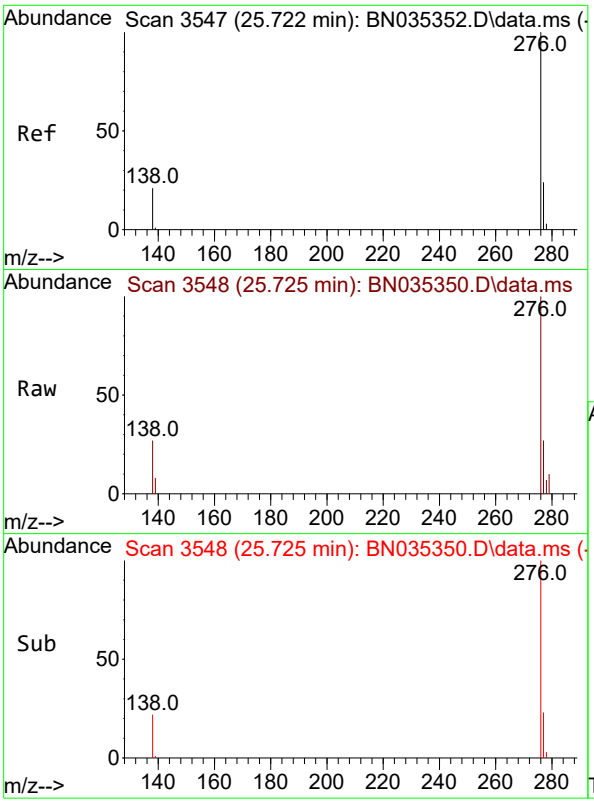


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#



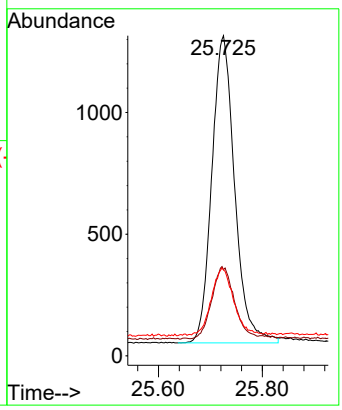


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3863

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	806	0.174	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.456	252	7522	0.200	ng	94
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

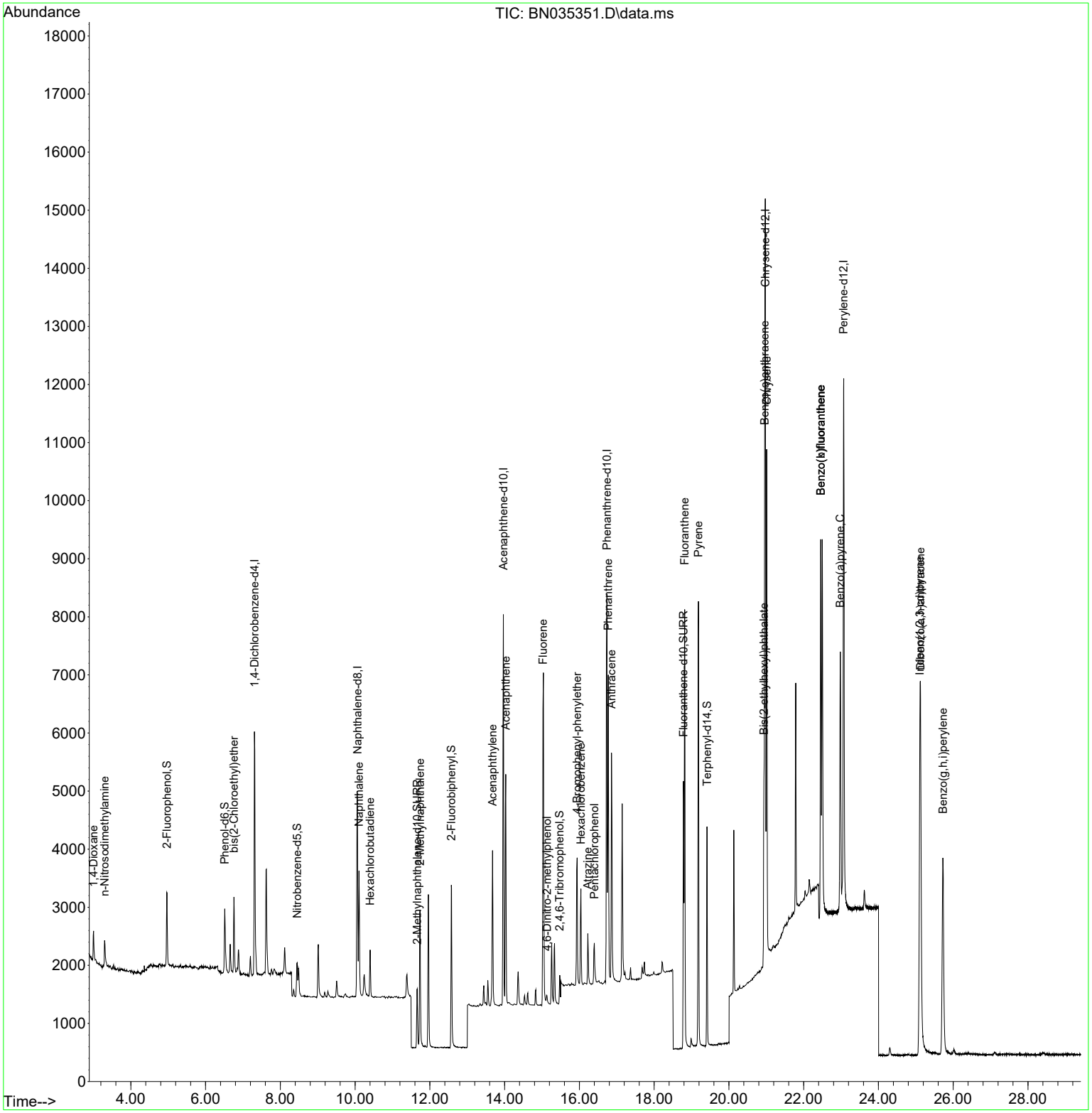
(#) = qualifier out of range (m) = manual integration (+) = signals summed

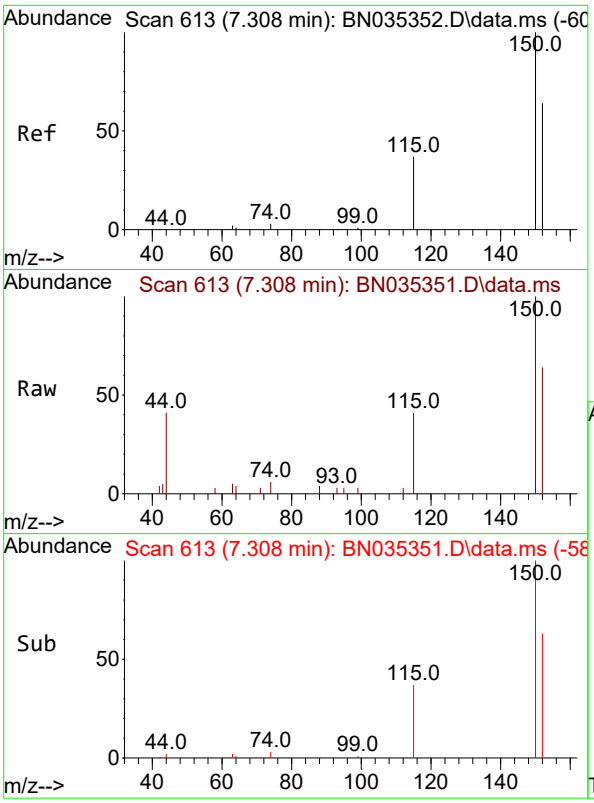
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



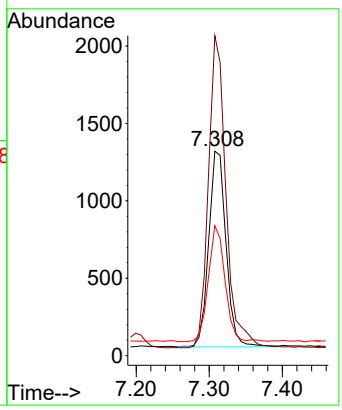


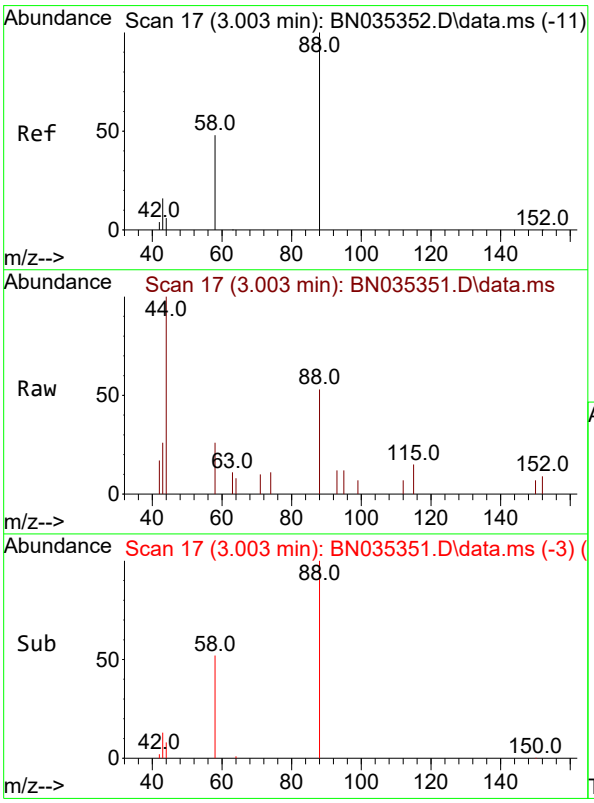
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2084

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

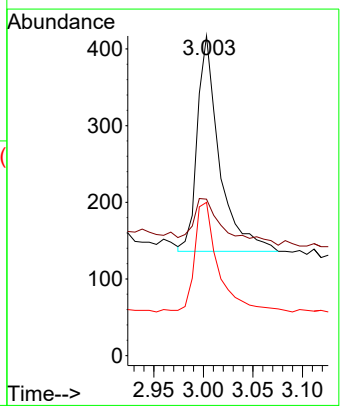


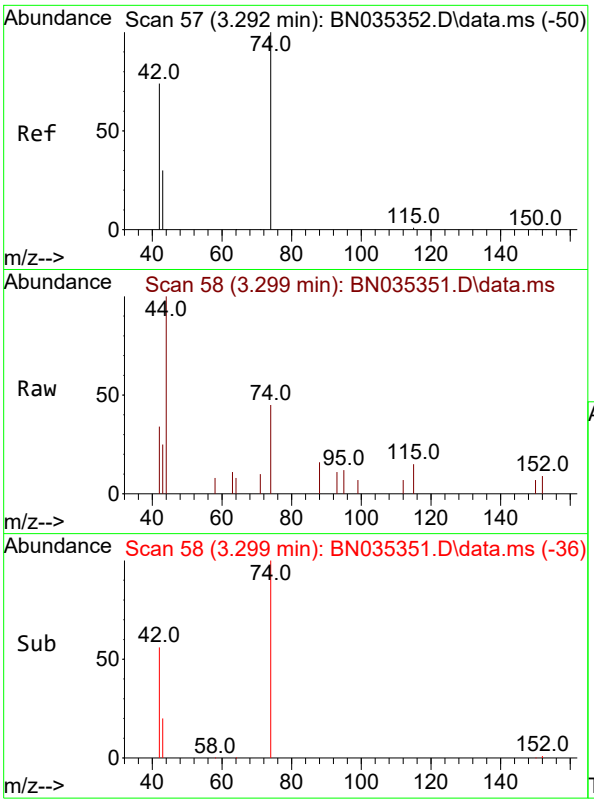


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7



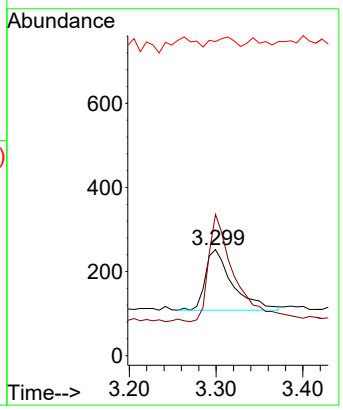


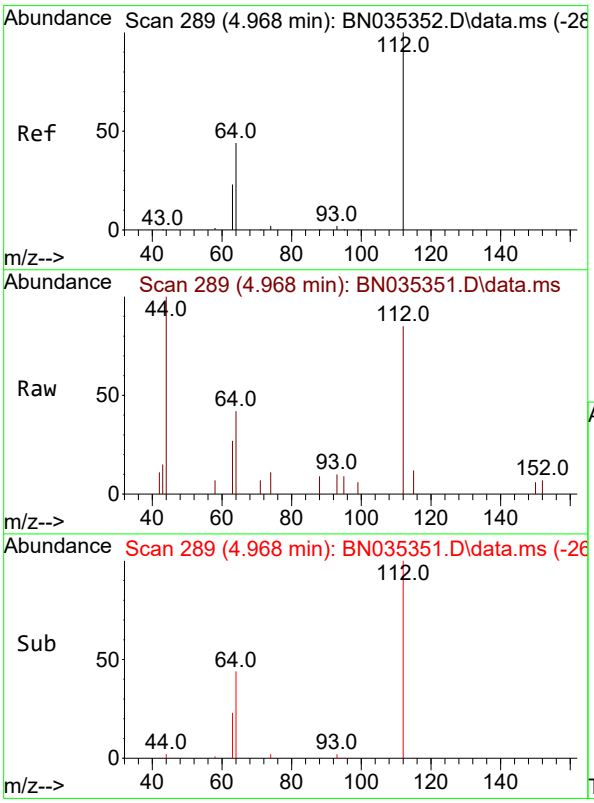
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 315

Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4#

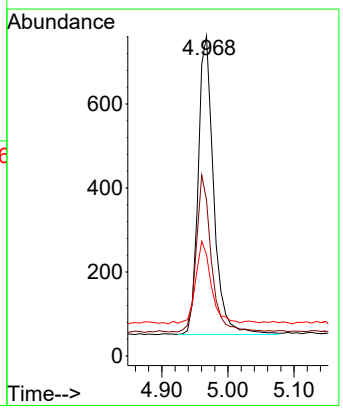


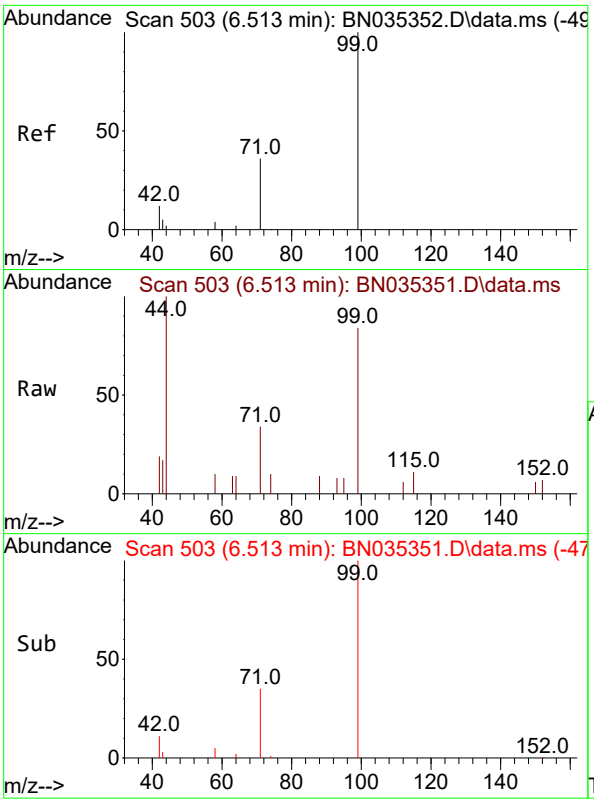


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



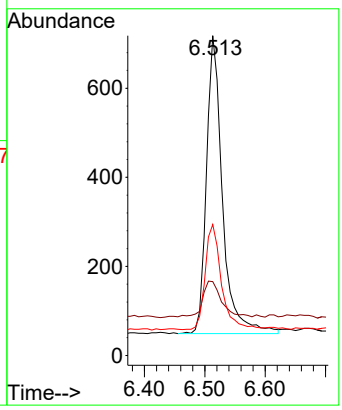


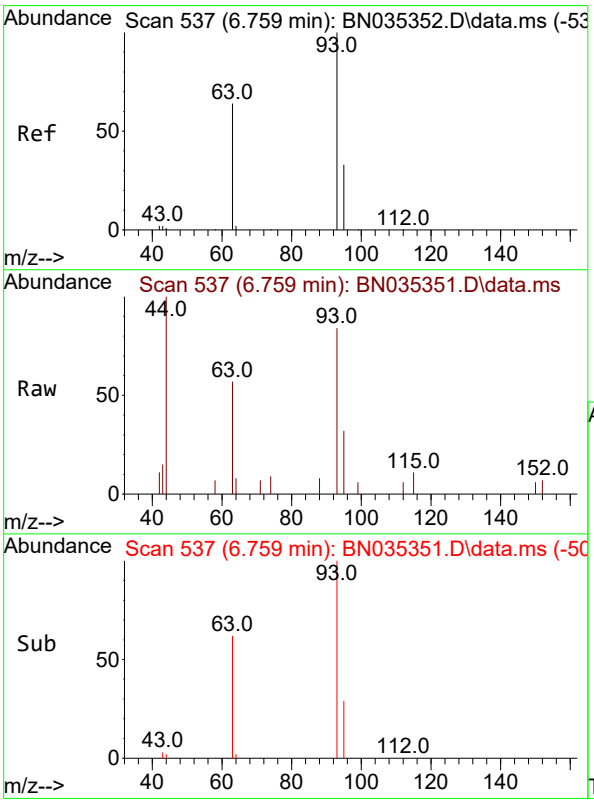
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1236

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9

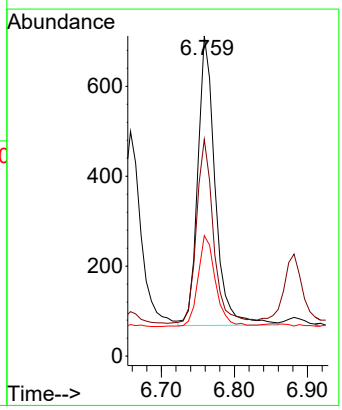


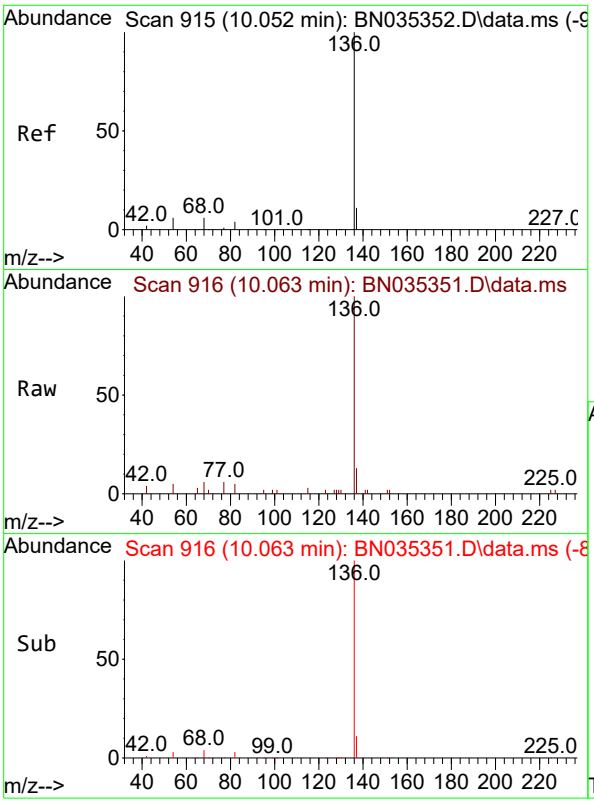


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5



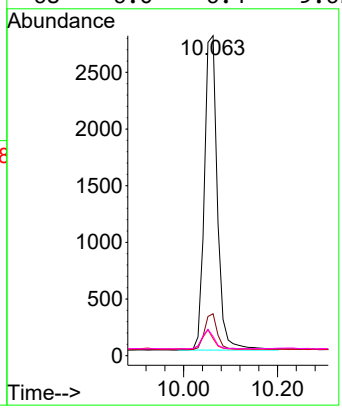


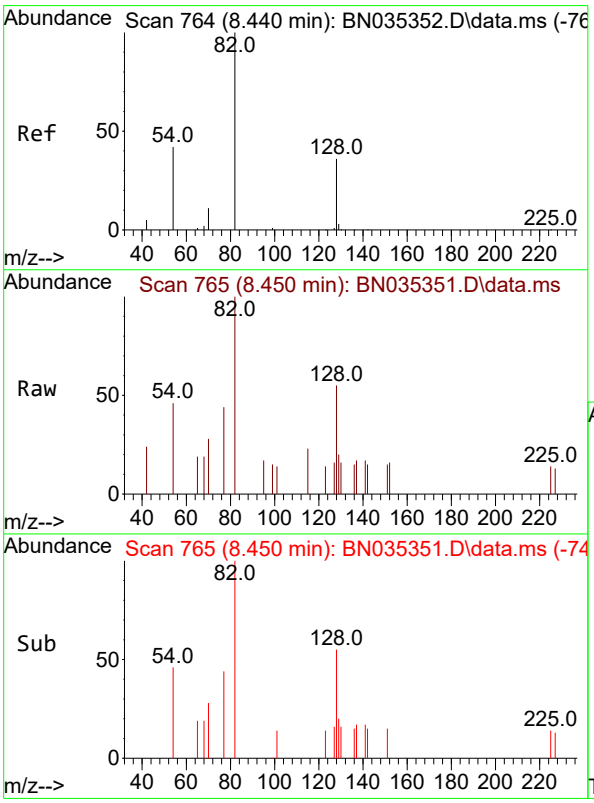
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5334

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#

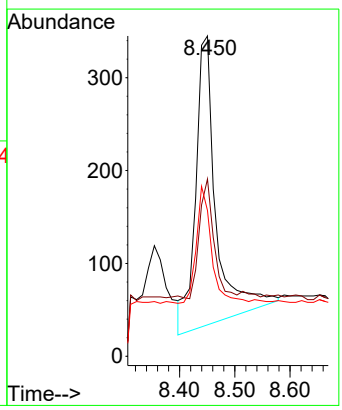


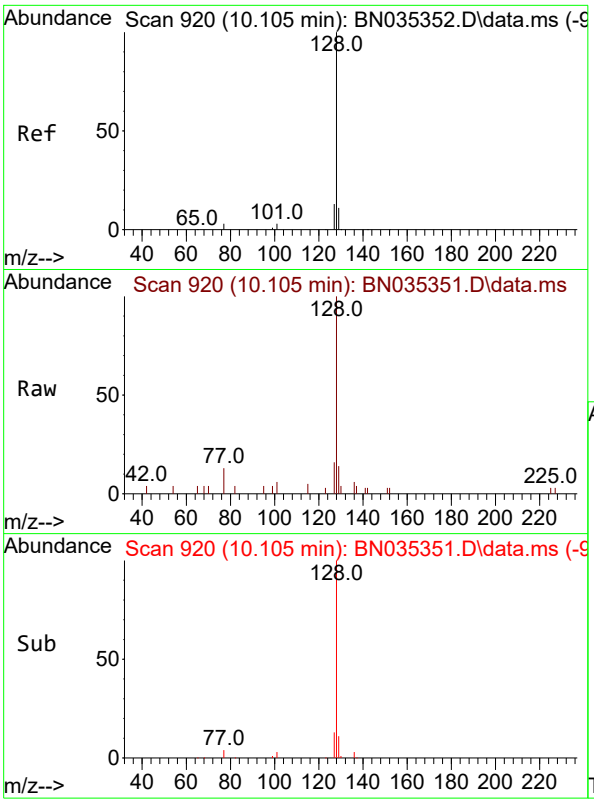


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 806

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1



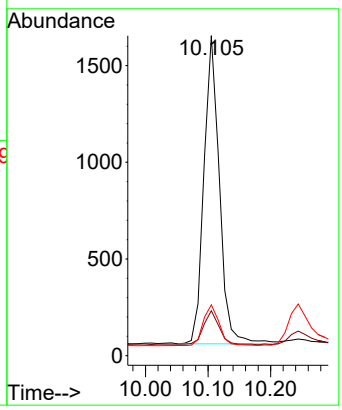


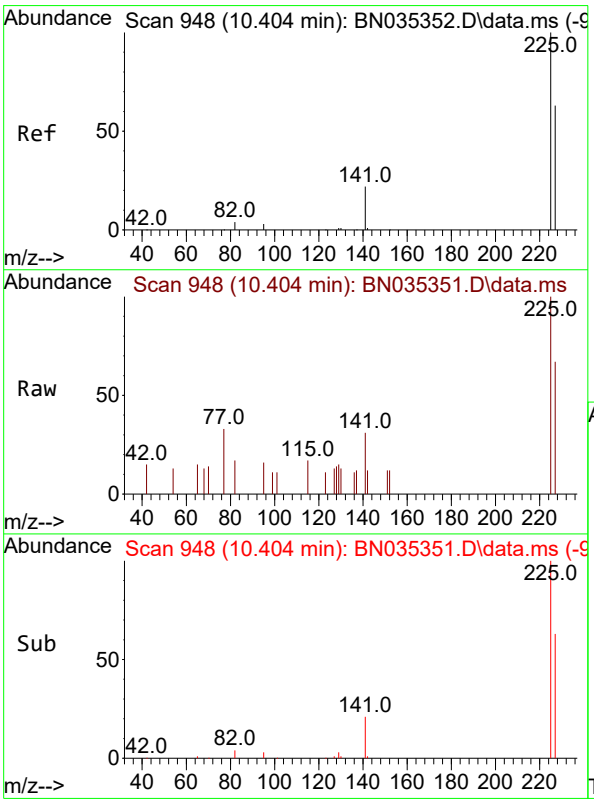
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2744

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2

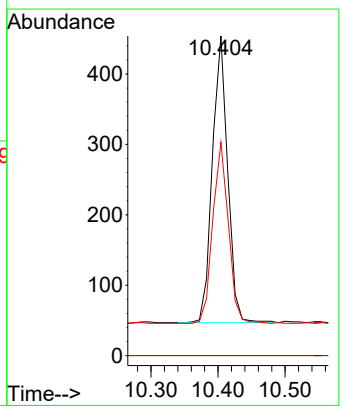


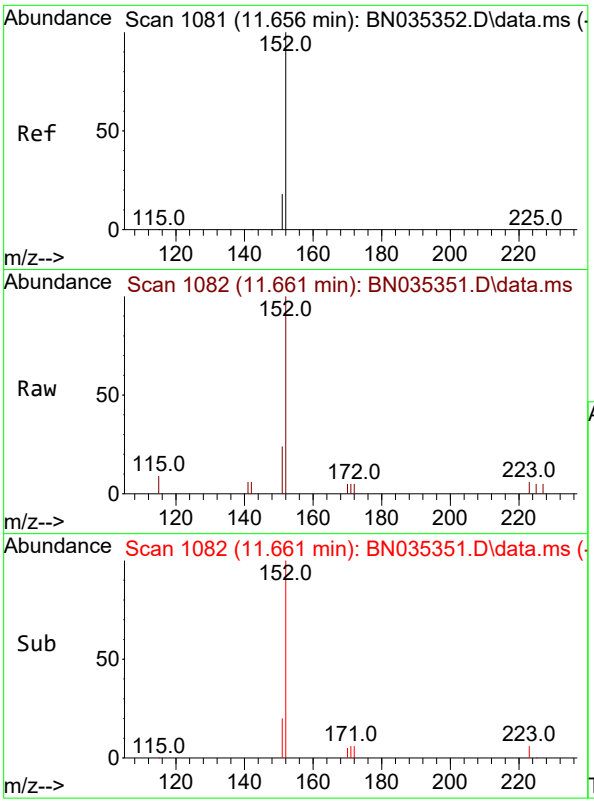


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



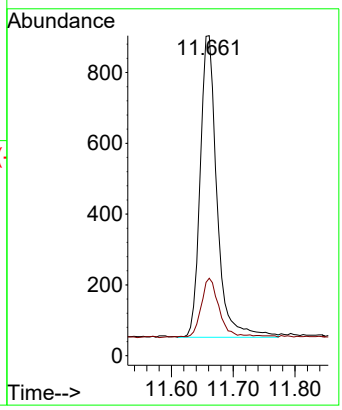


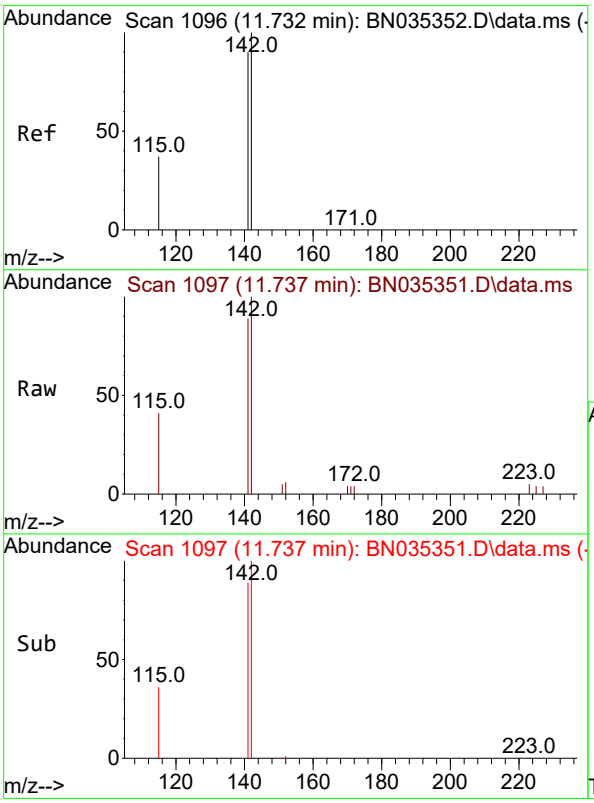
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

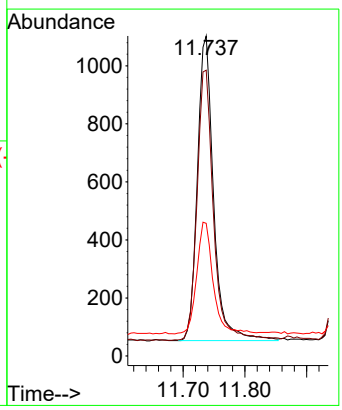


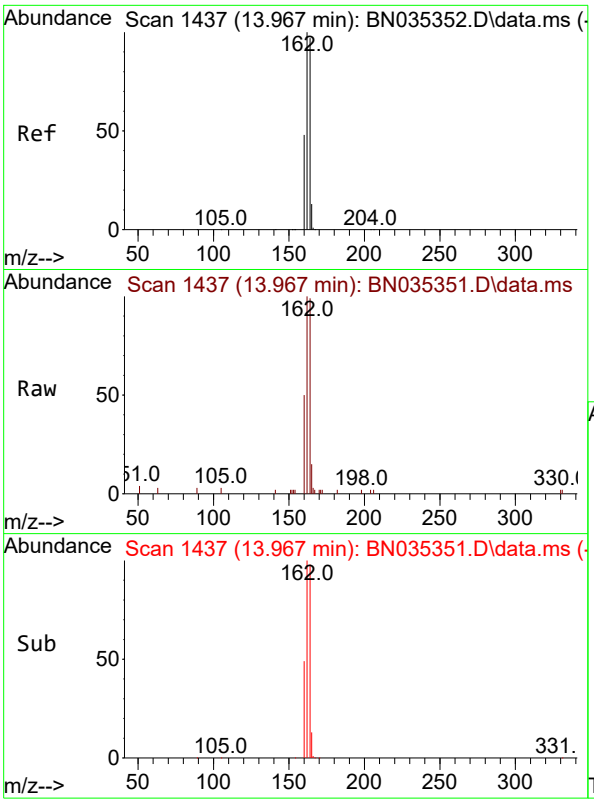


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0



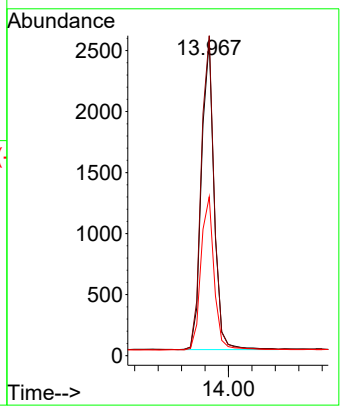


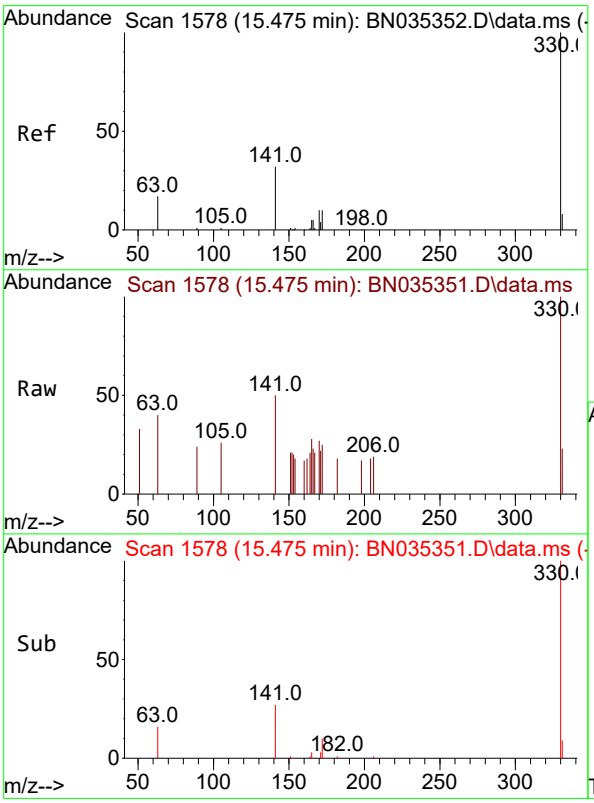
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3808

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1

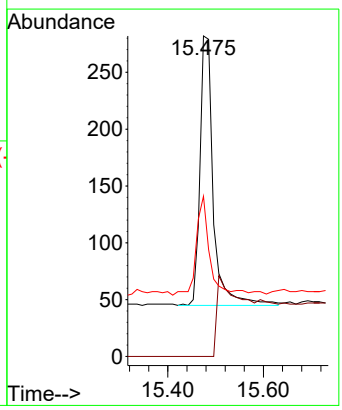


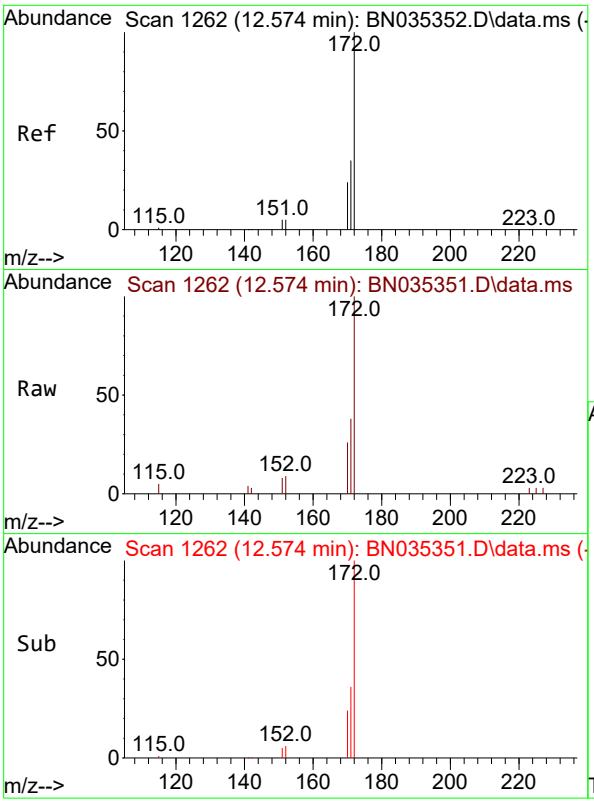


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0



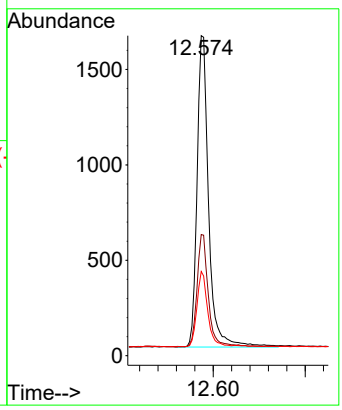


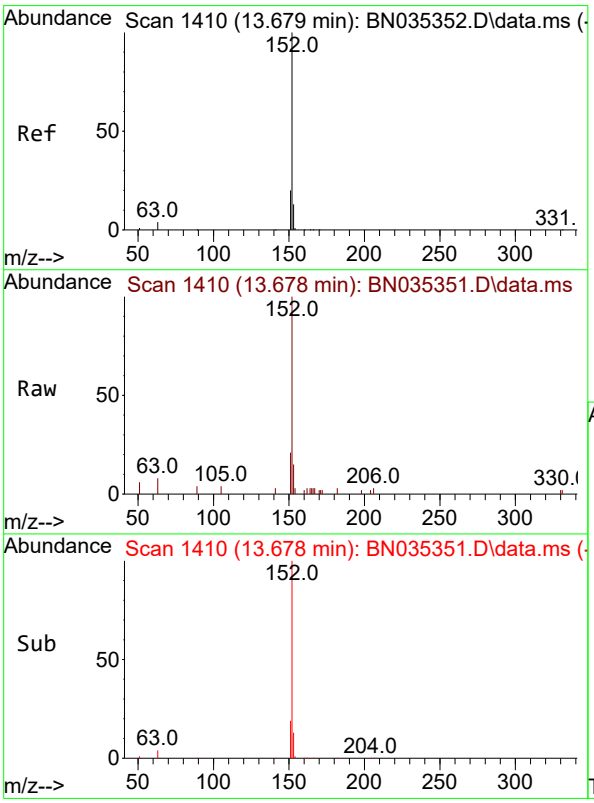
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8

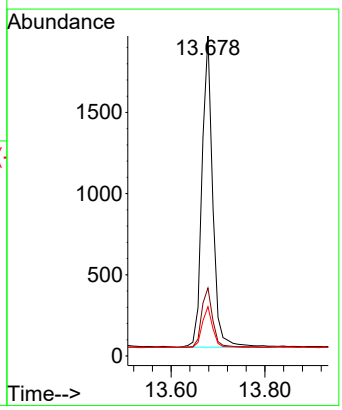


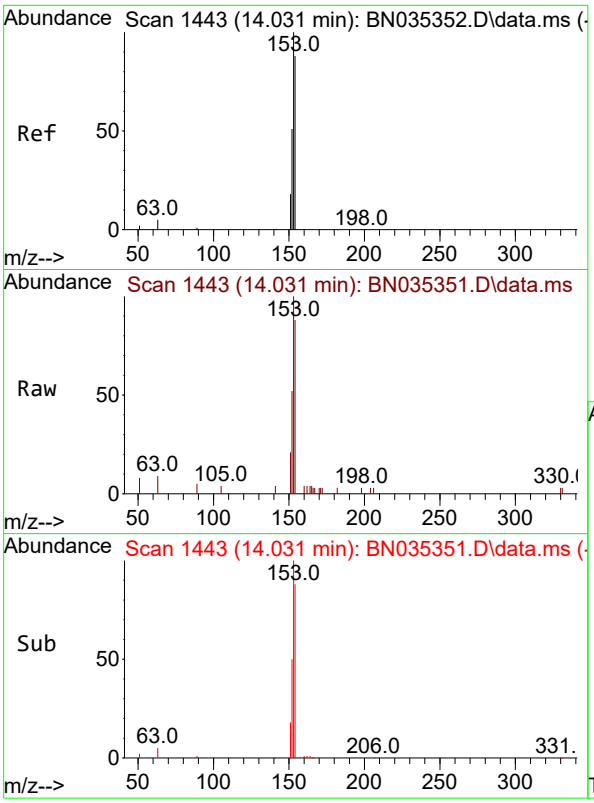


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



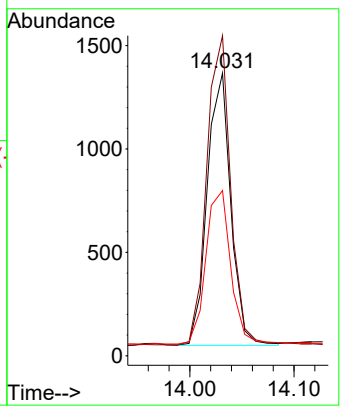


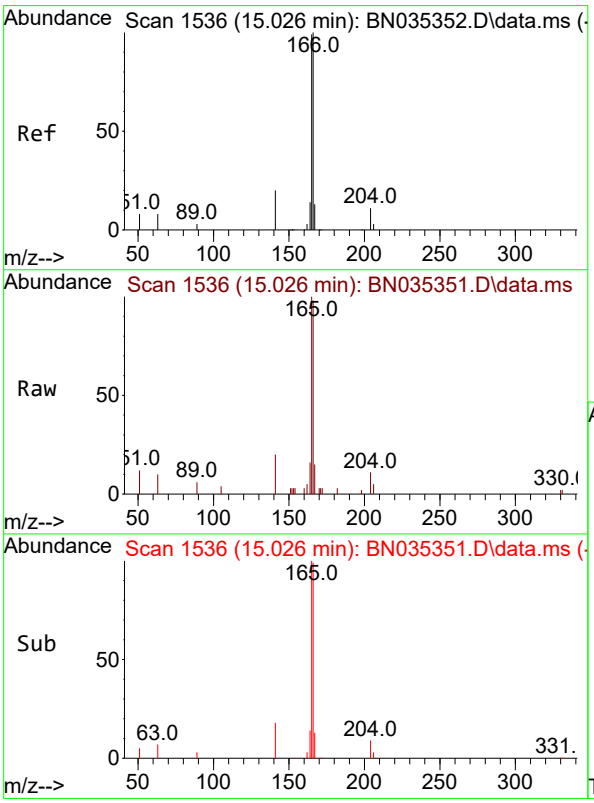
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2064

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6

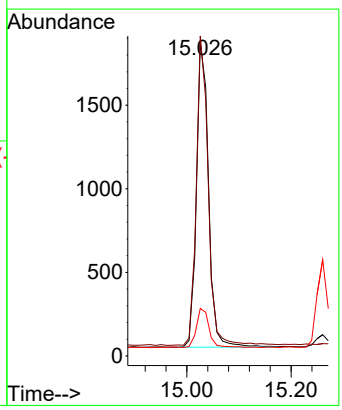


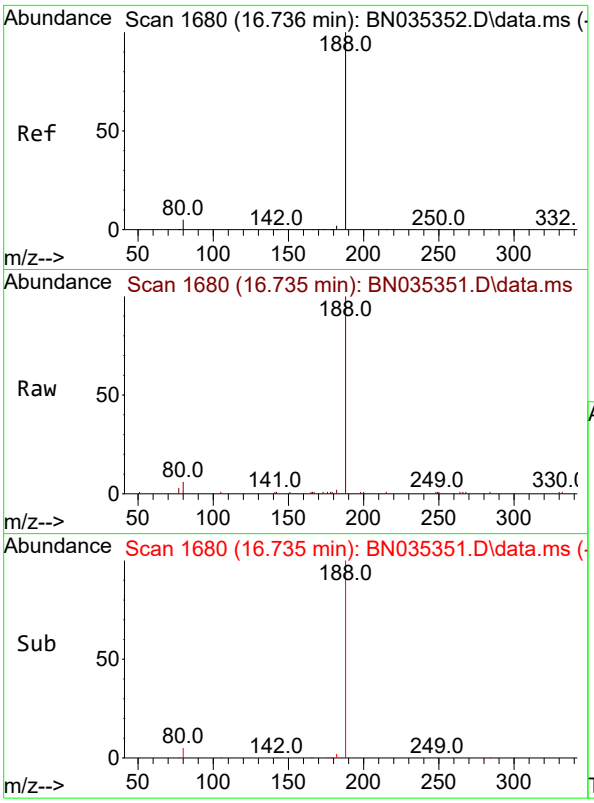


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2



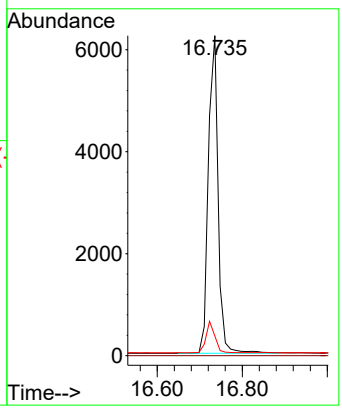


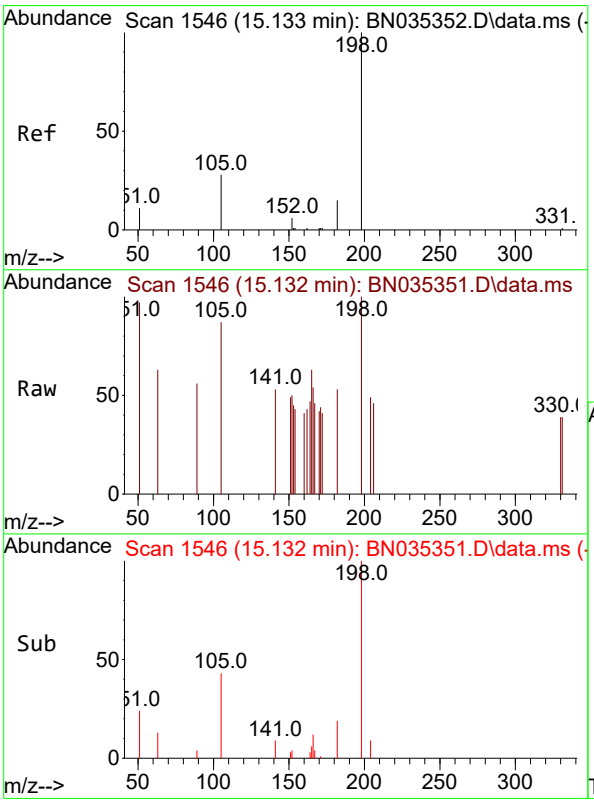
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8

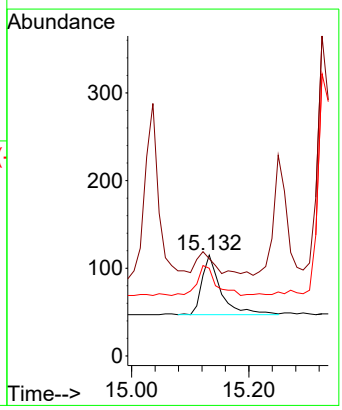


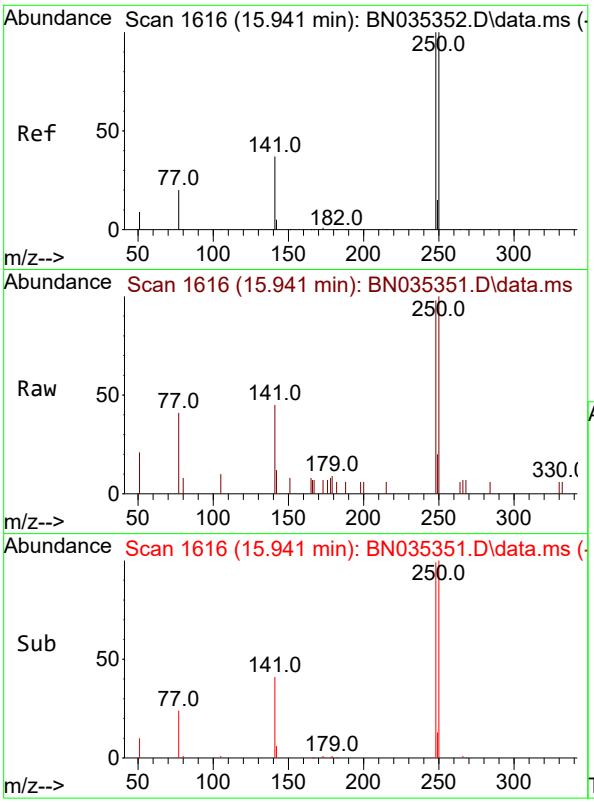


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#



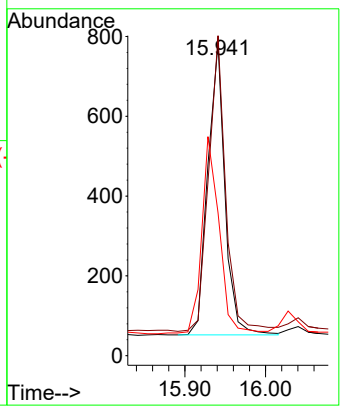


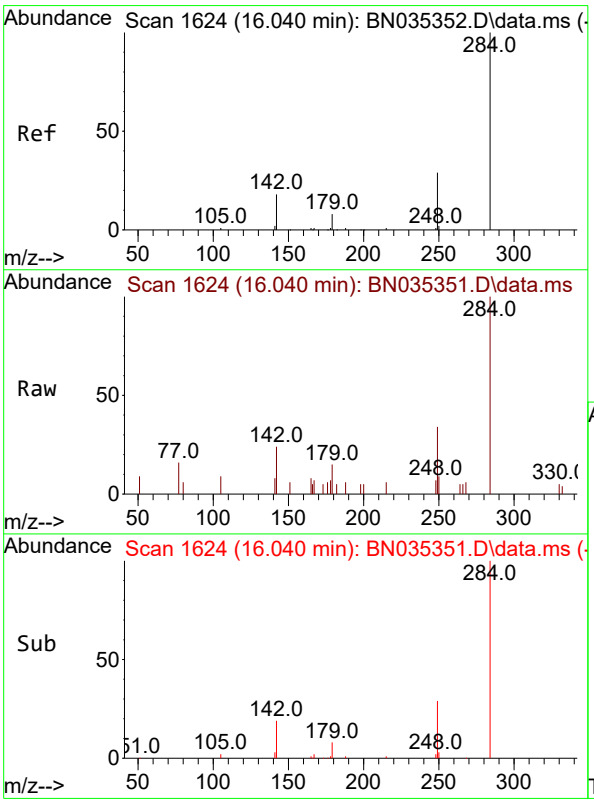
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1081

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3

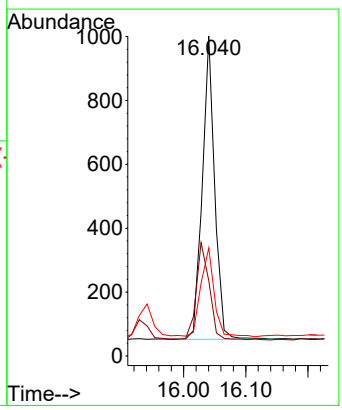


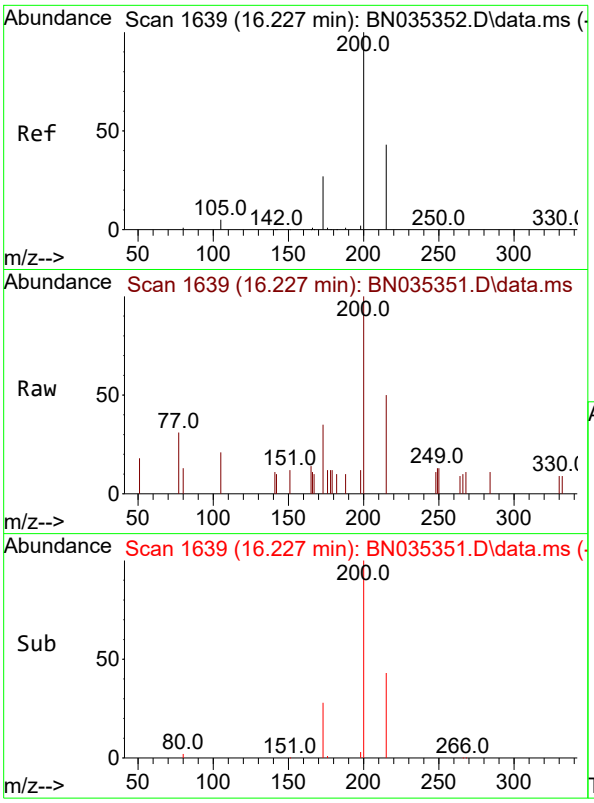


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8



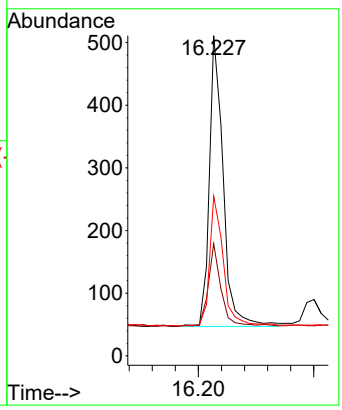


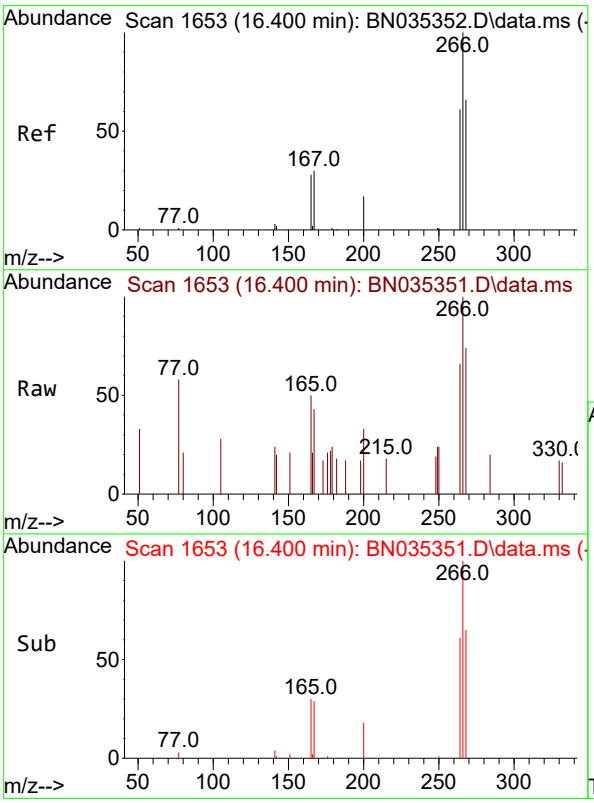
#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3

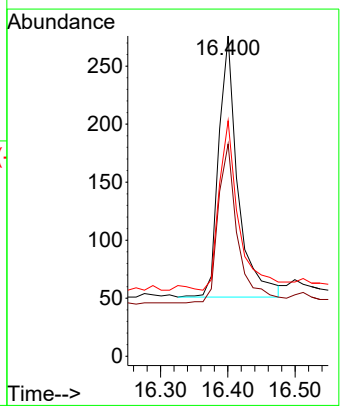


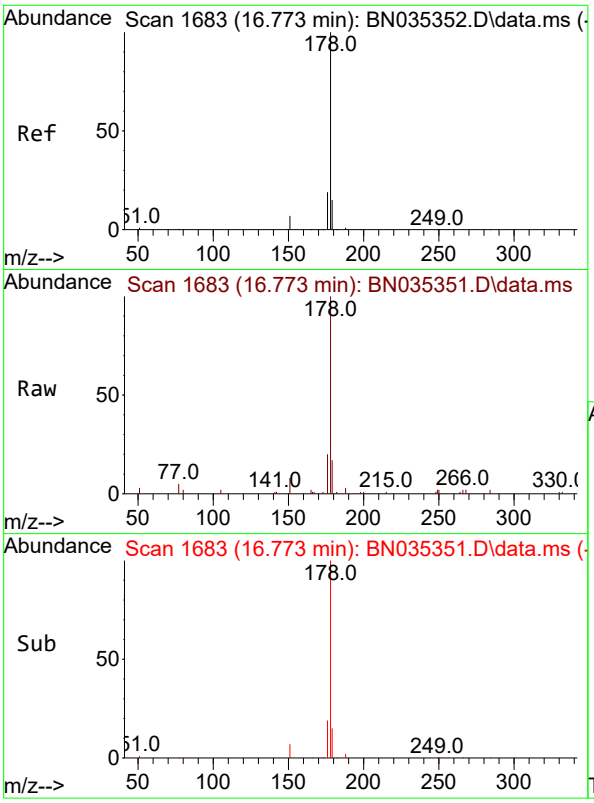


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#



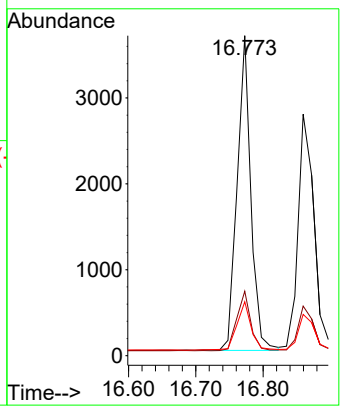


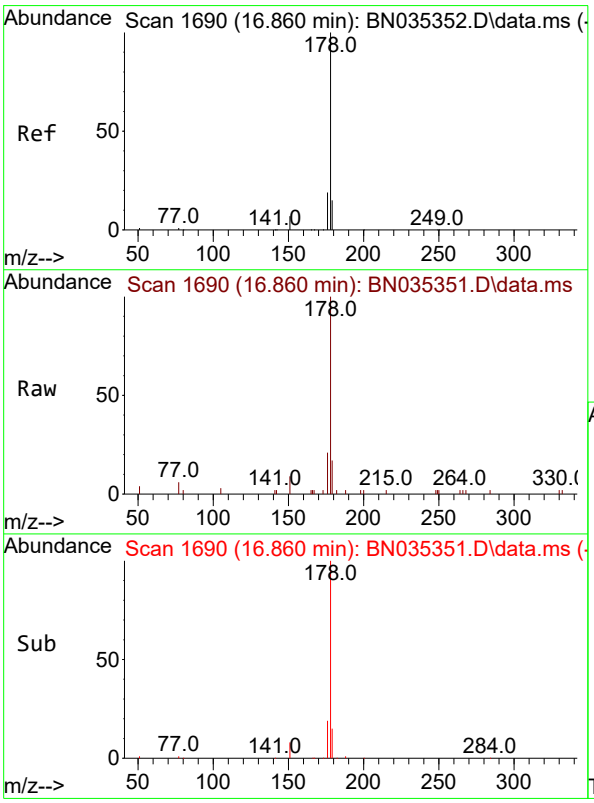
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5182

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5

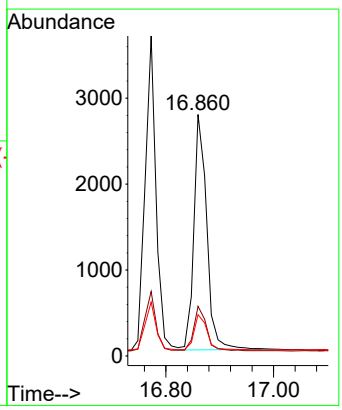


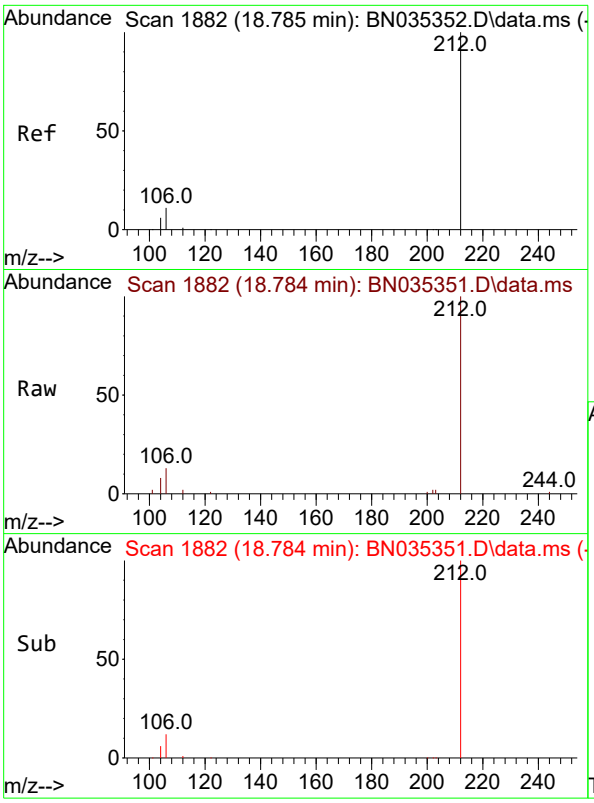


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8



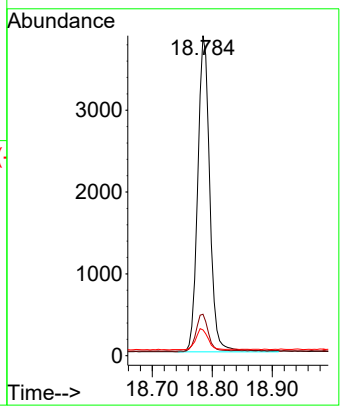


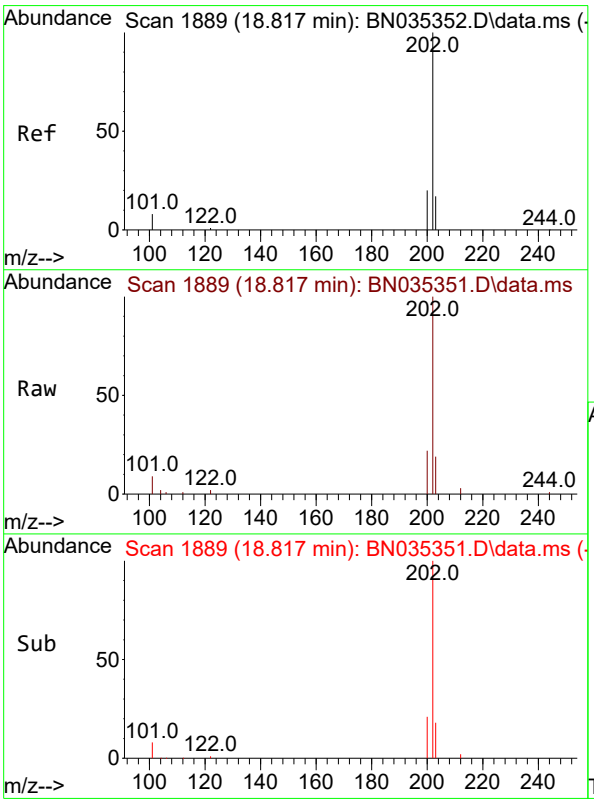
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5379

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

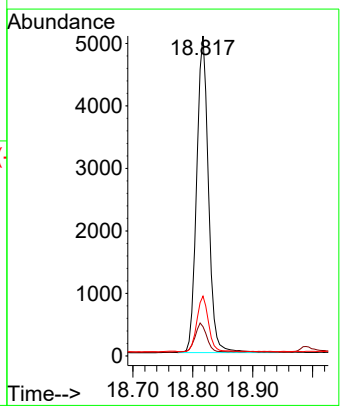


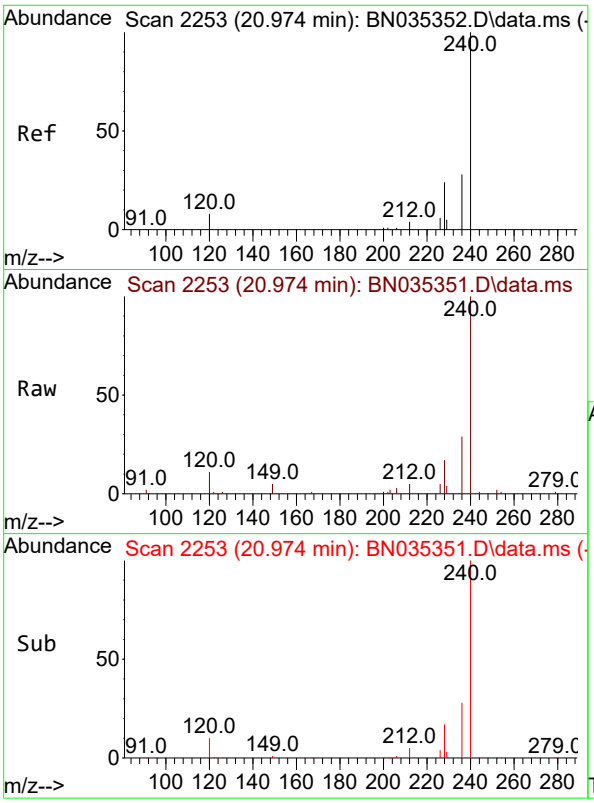


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5



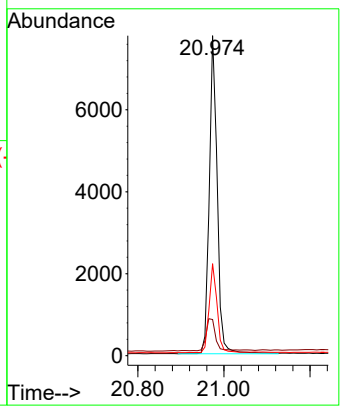


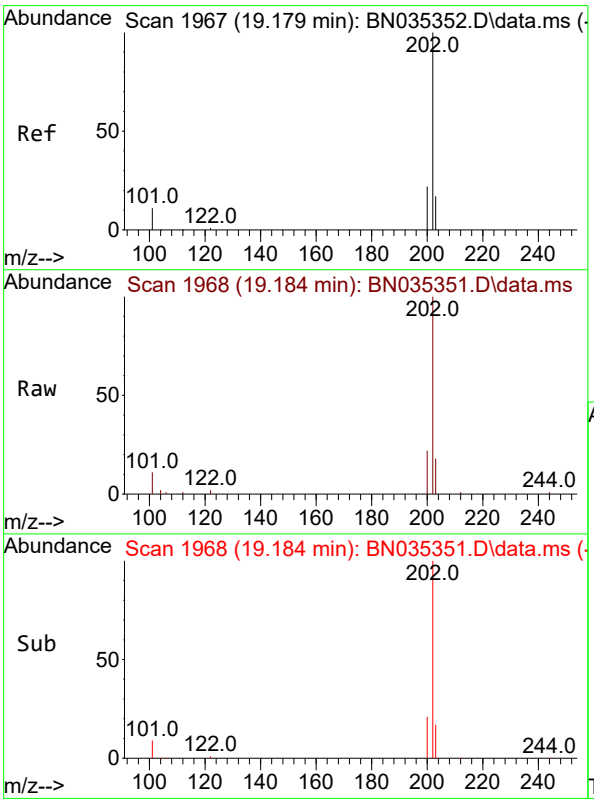
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9963

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

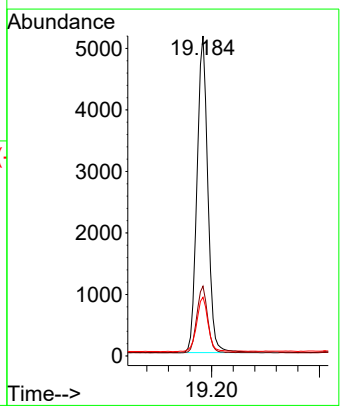


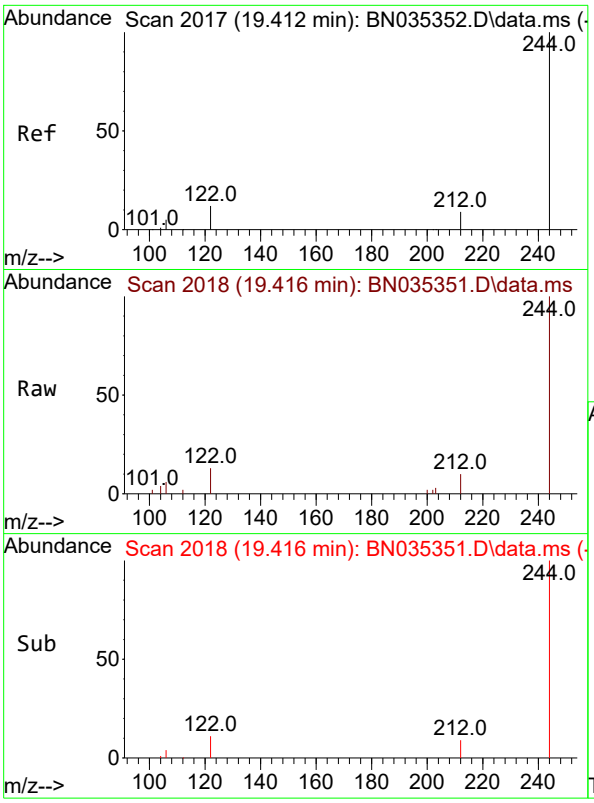


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5



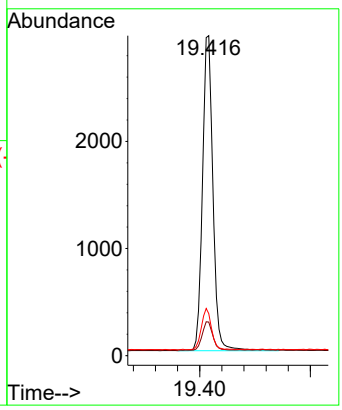


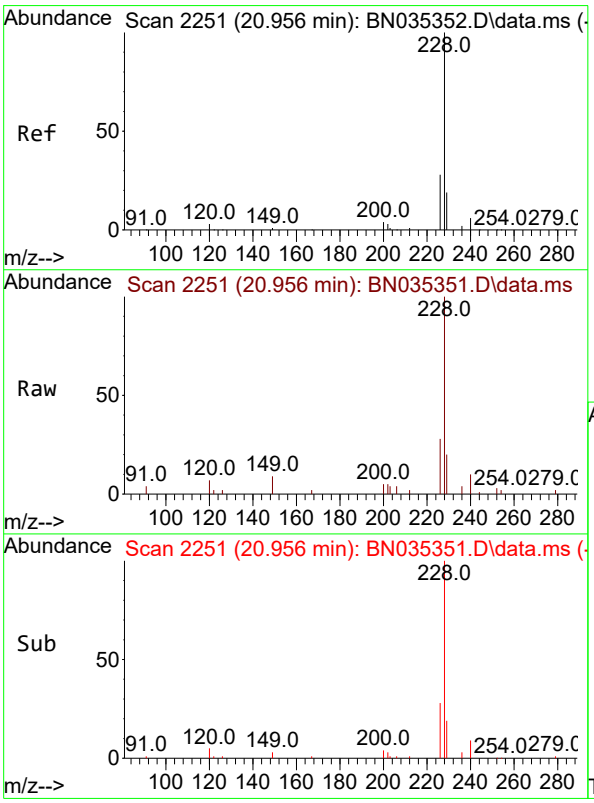
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 3871

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

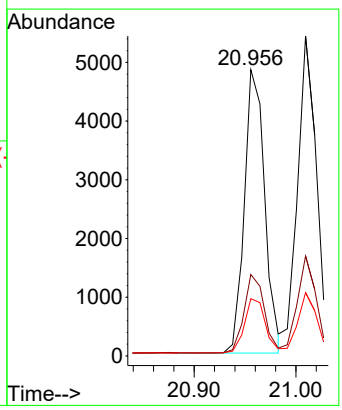


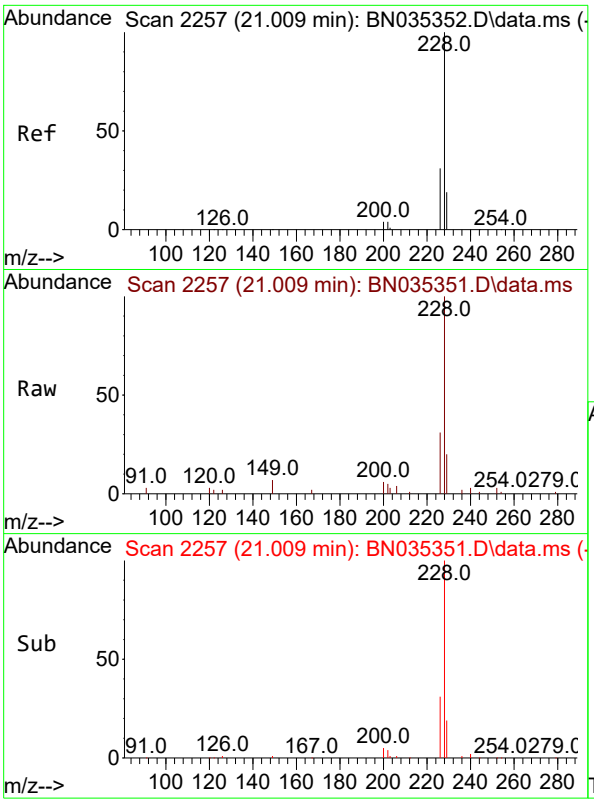


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8



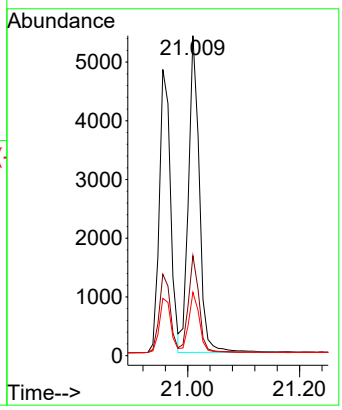


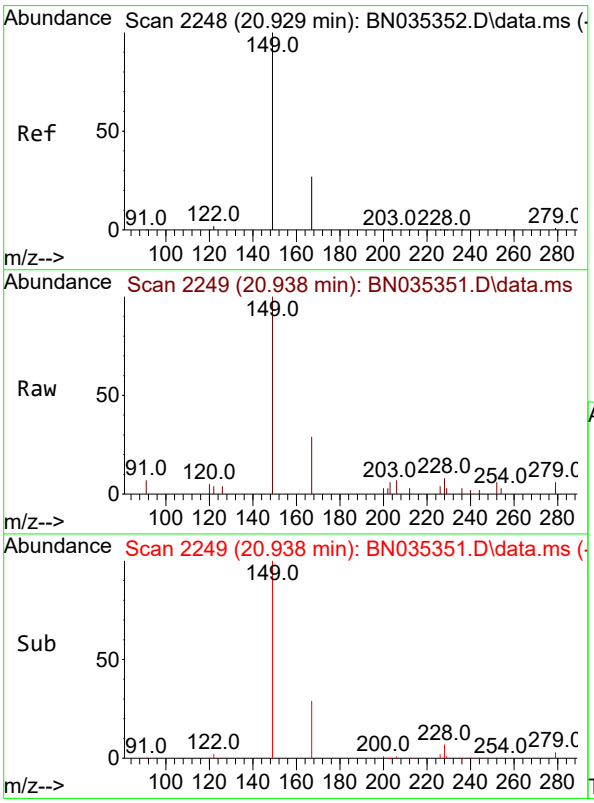
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 7234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

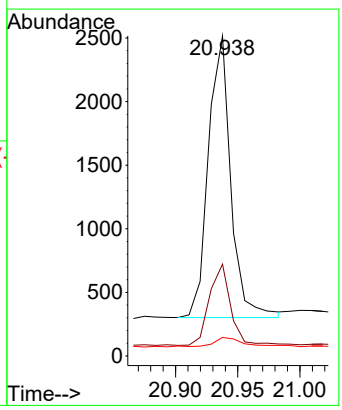


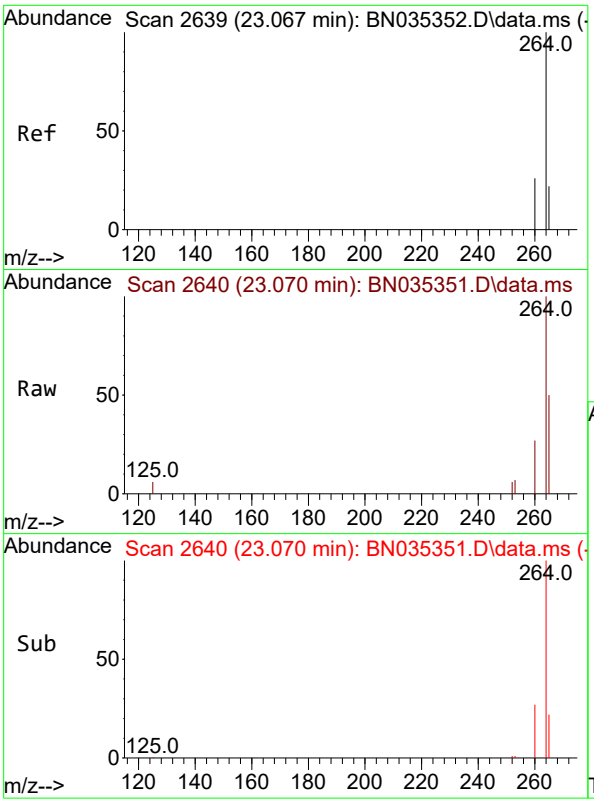


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#



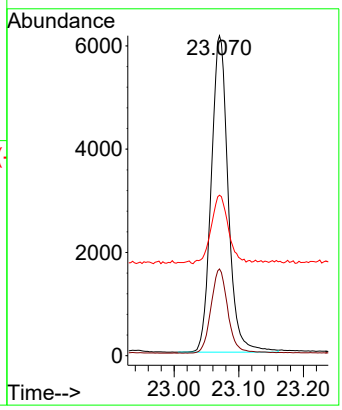


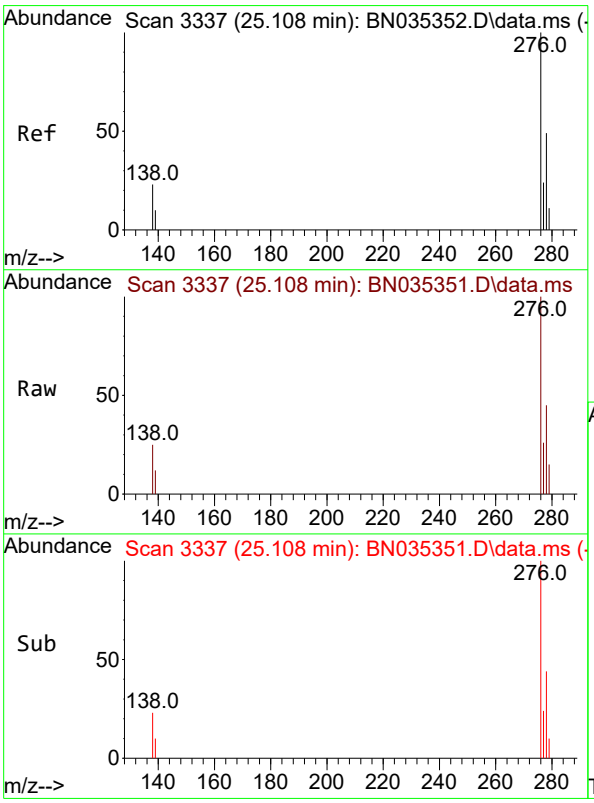
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 11158

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4

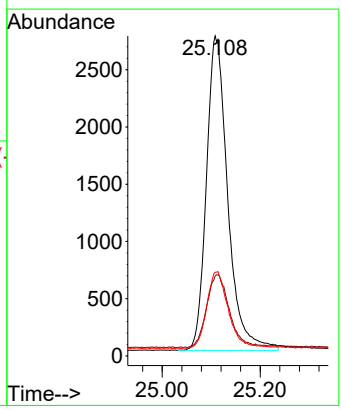


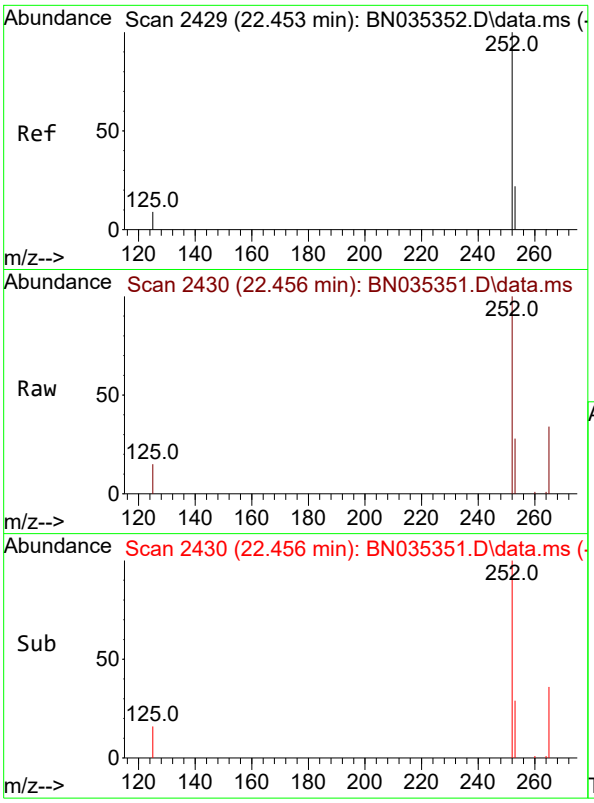


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6



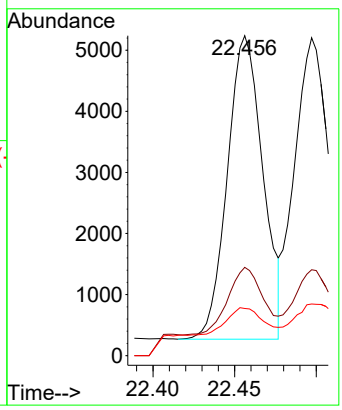


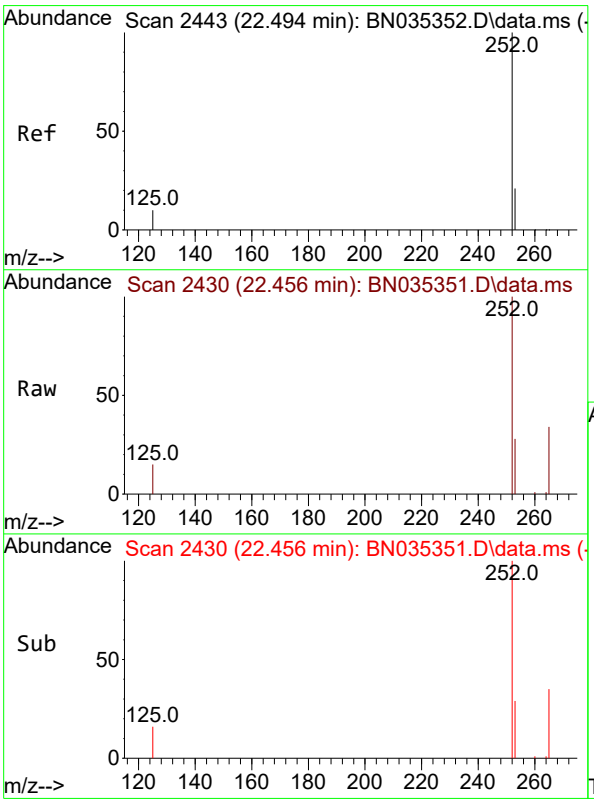
#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#

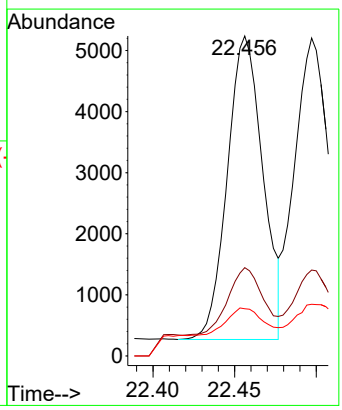


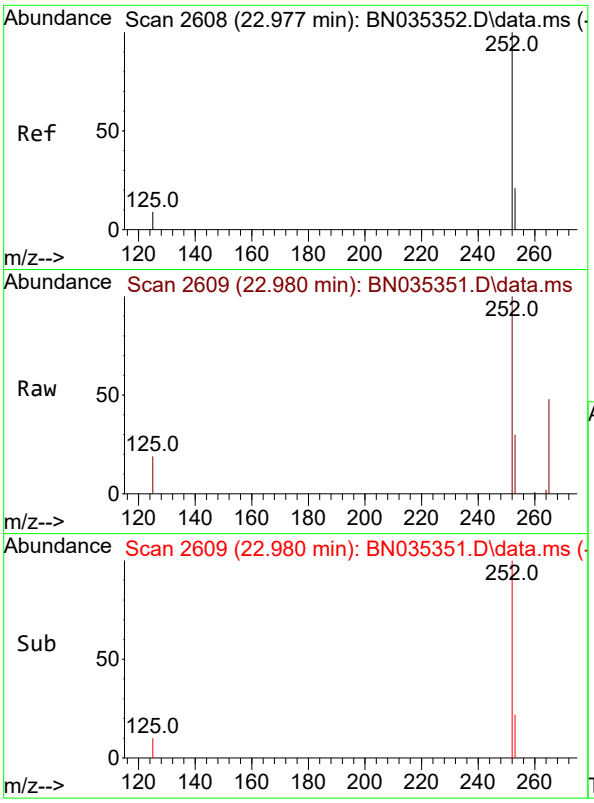


#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.5	29.3
125	14.8	10.2	15.4



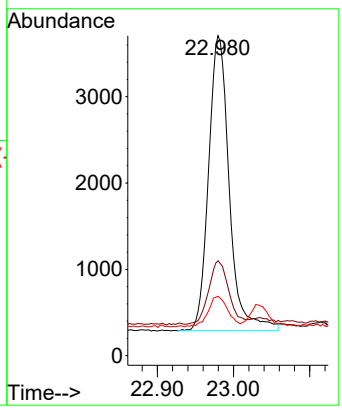


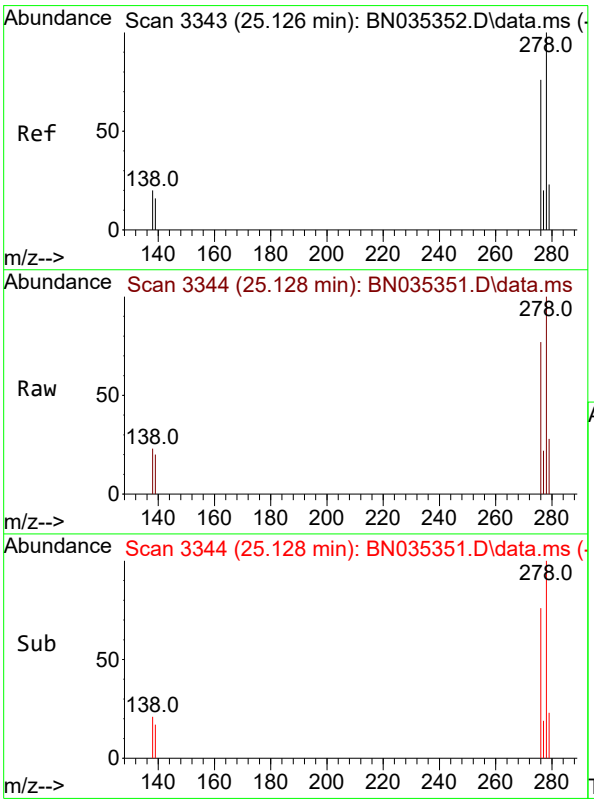
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6450

Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#

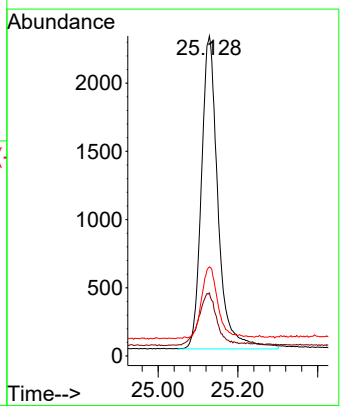


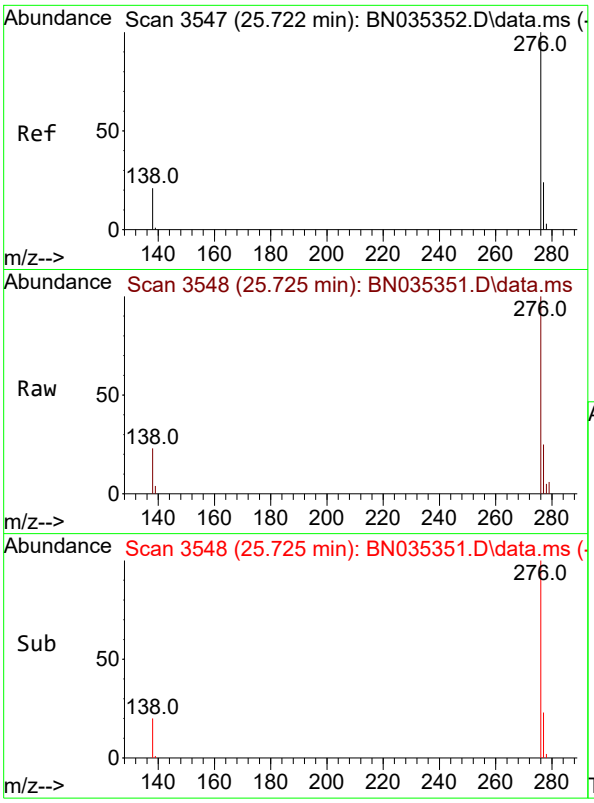


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7



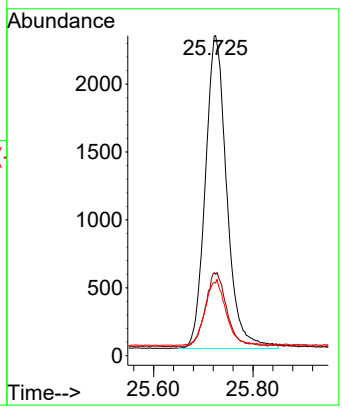


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6908

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1371	0.301	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

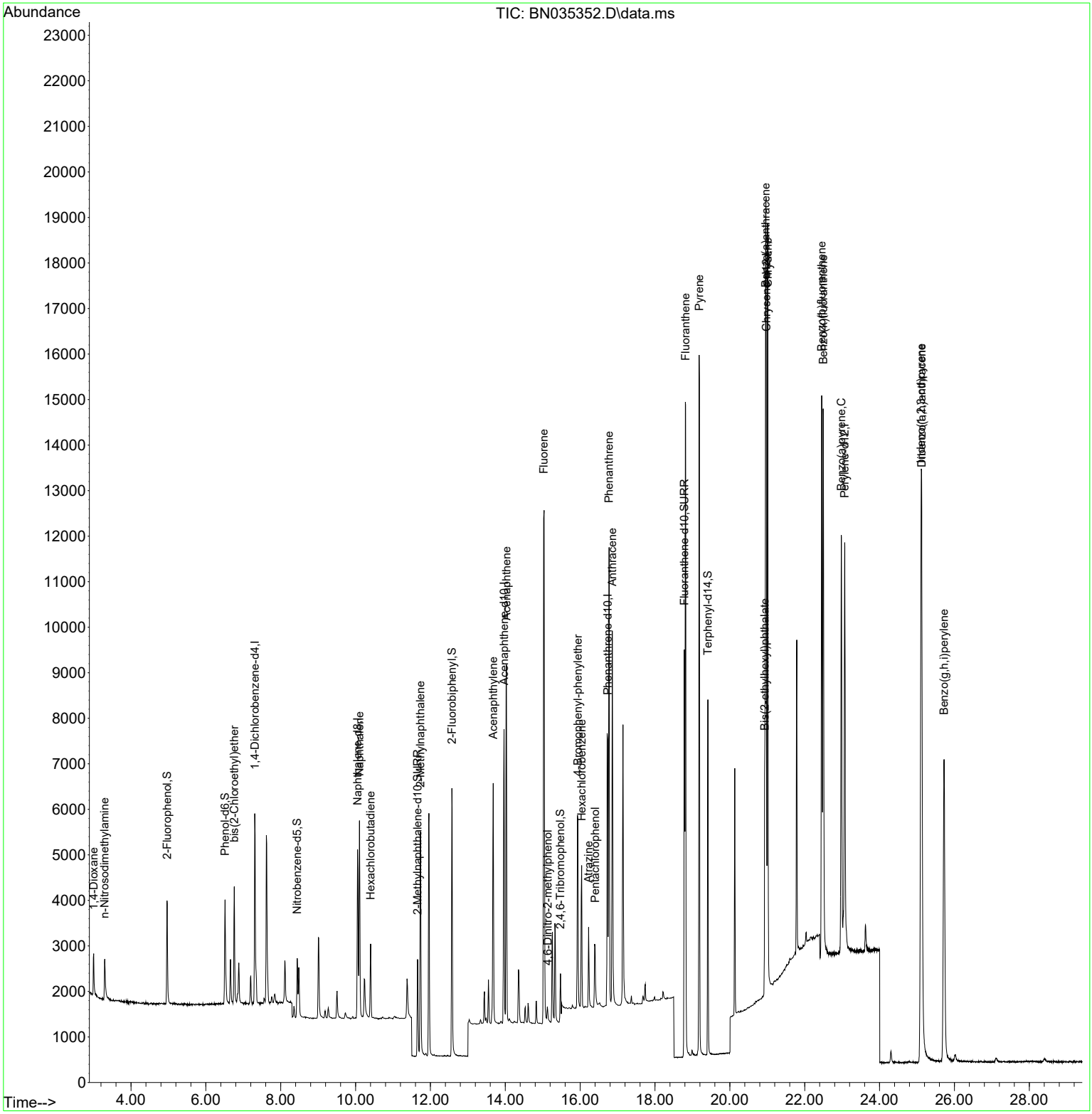
(#) = qualifier out of range (m) = manual integration (+) = signals summed

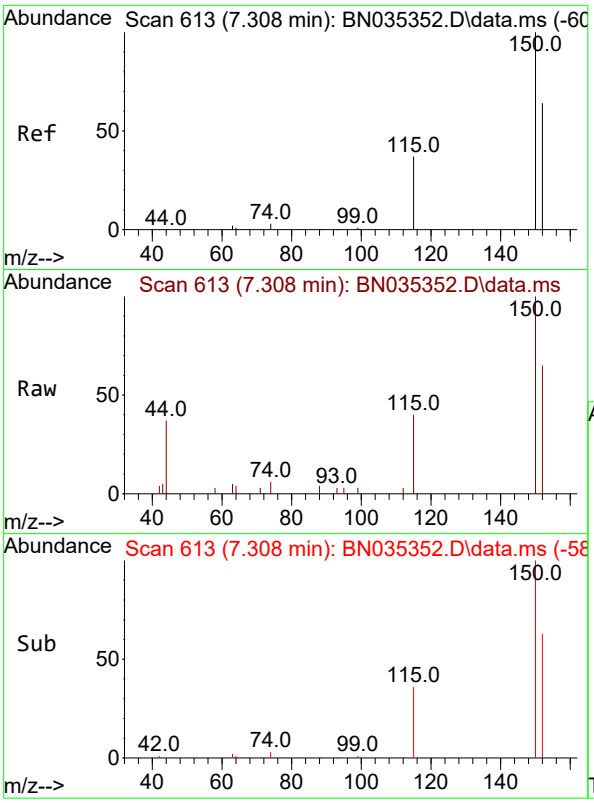
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



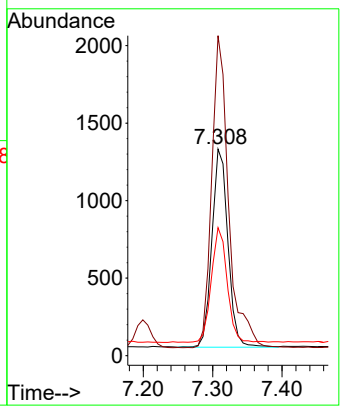


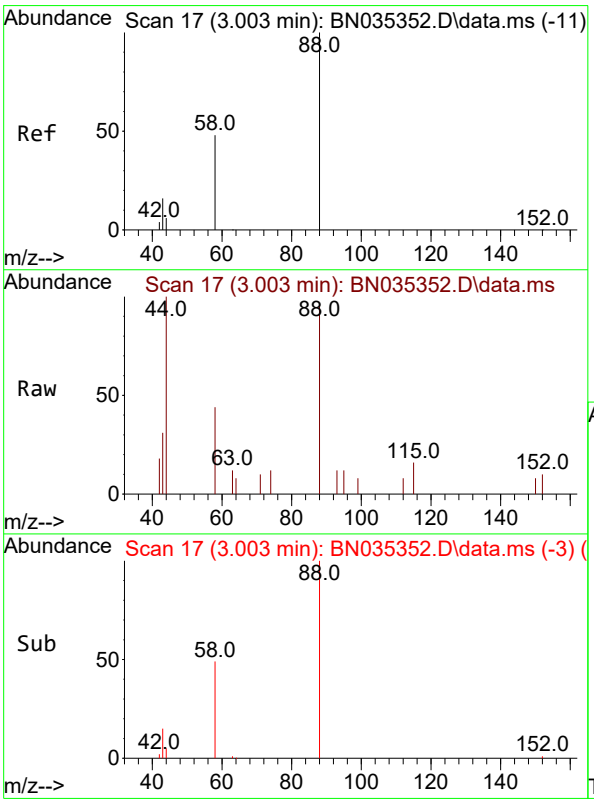
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2048

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4

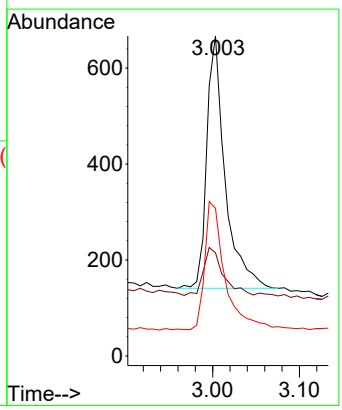


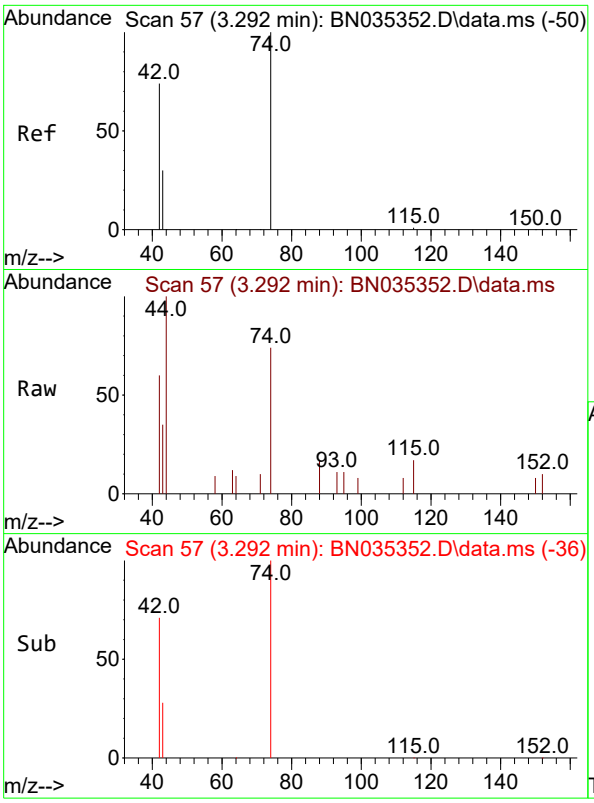


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7



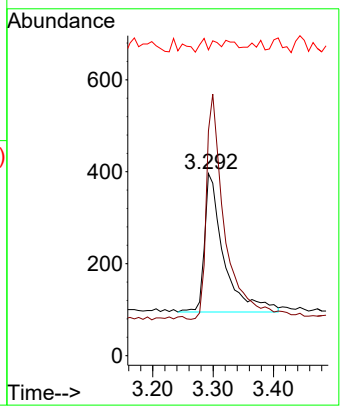


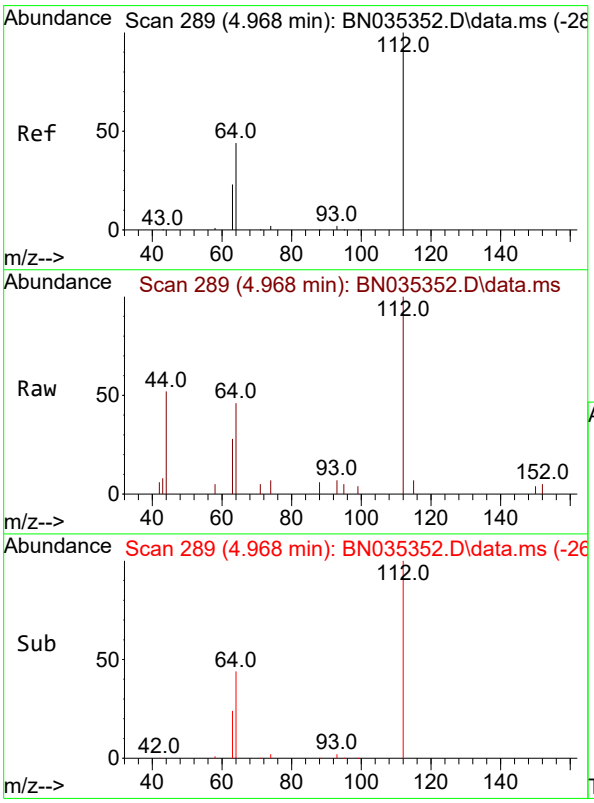
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 668

Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4

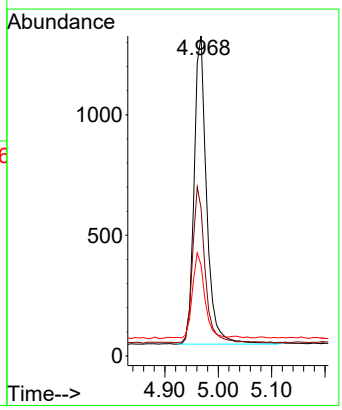


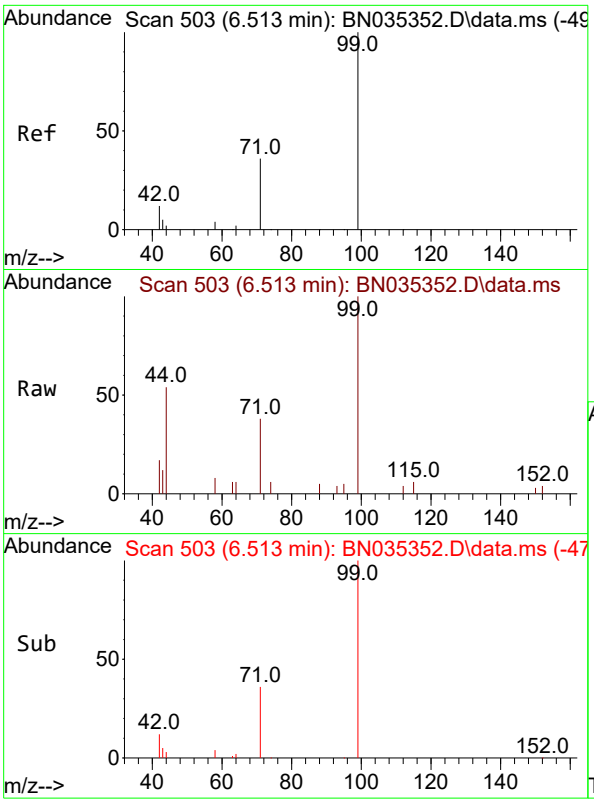


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6



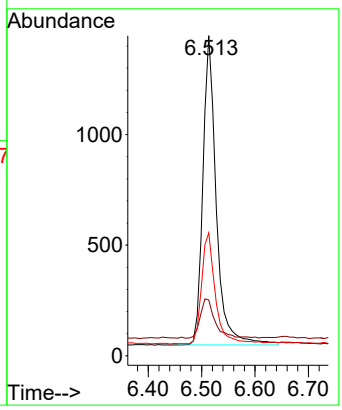


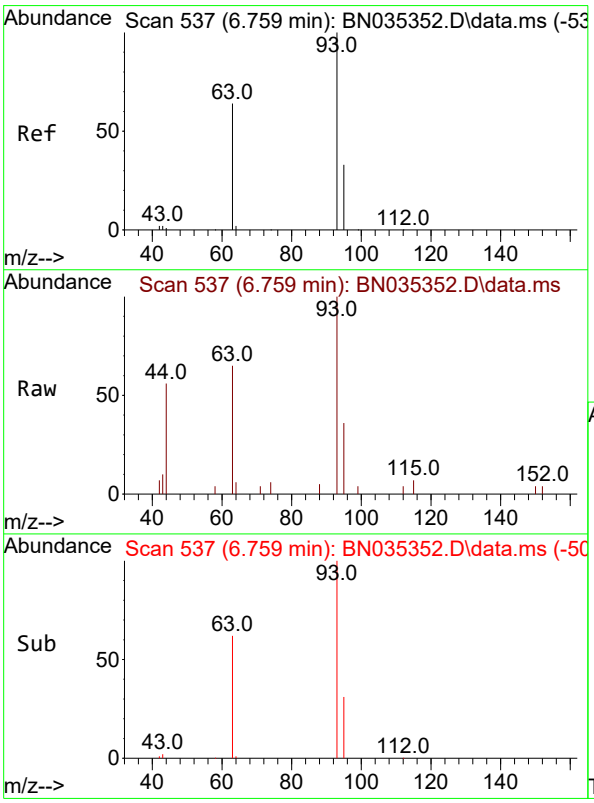
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9

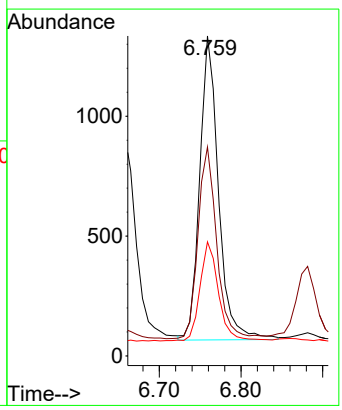


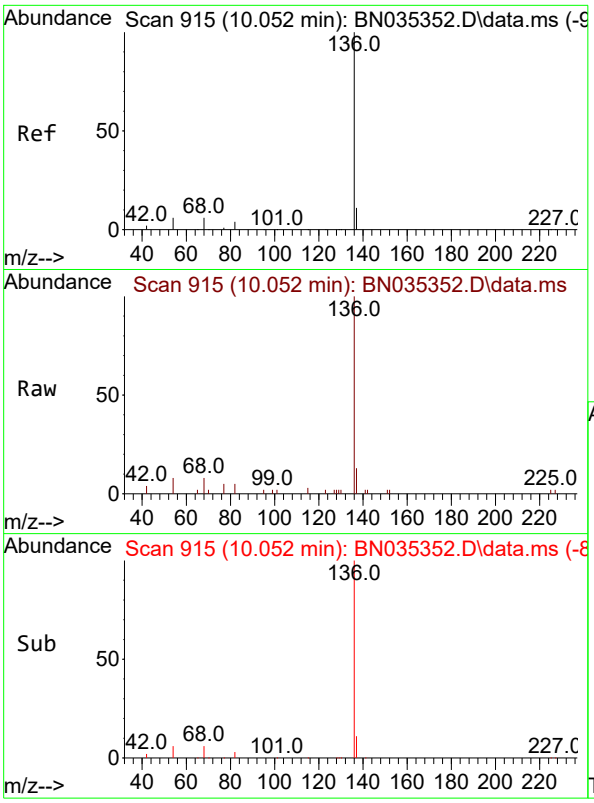


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



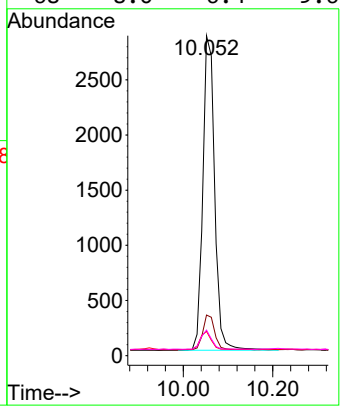


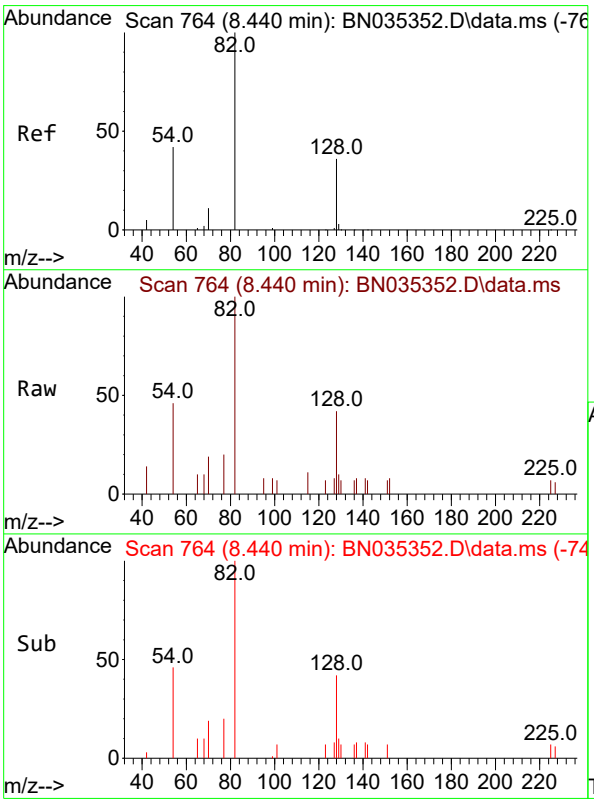
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5229

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

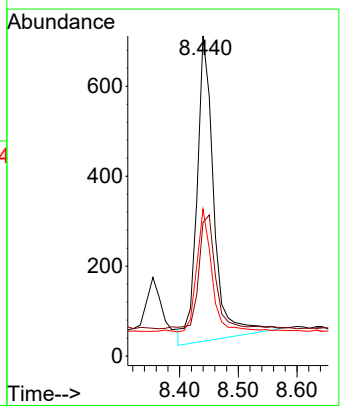


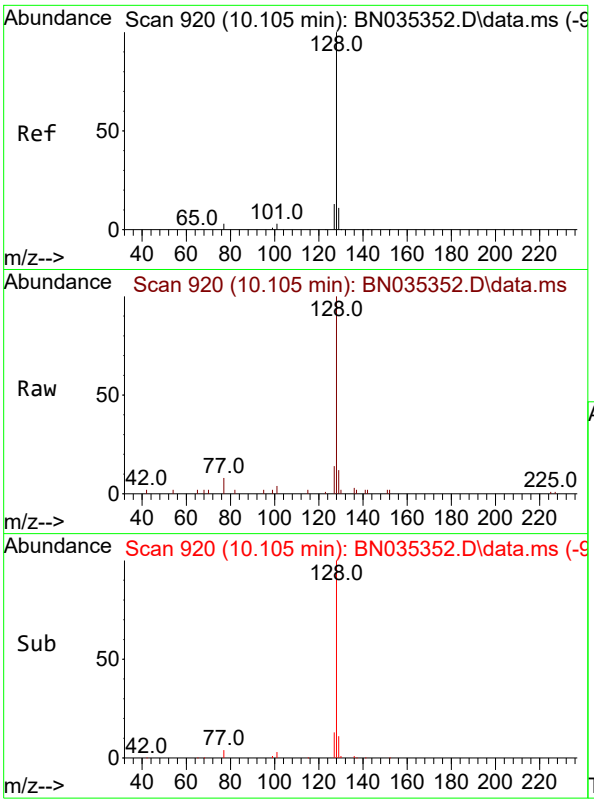


#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1



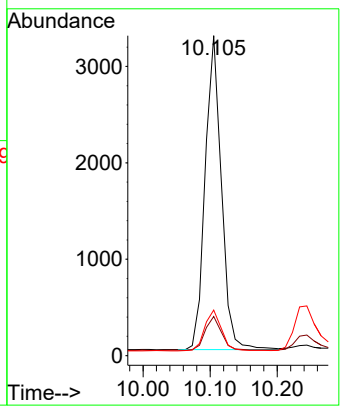


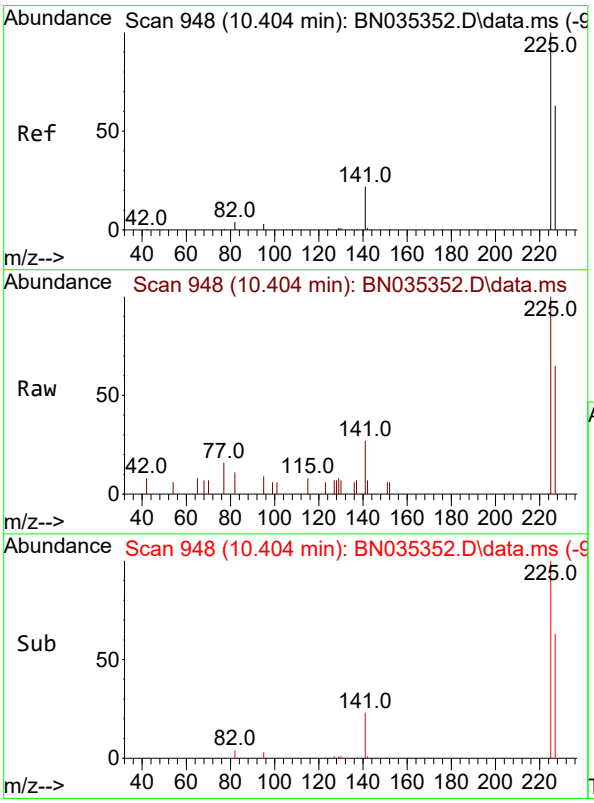
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5475

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

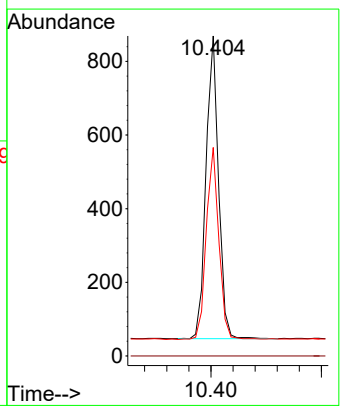


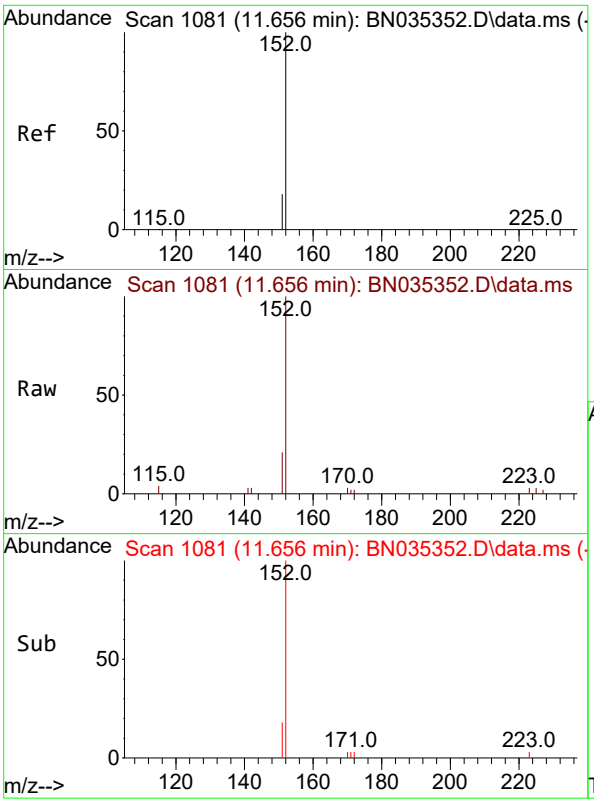


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



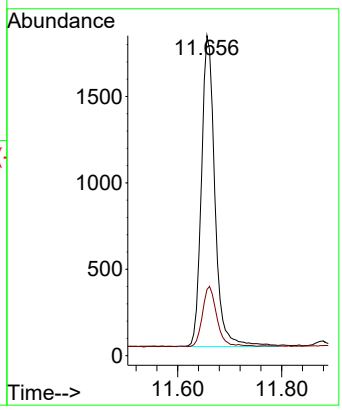


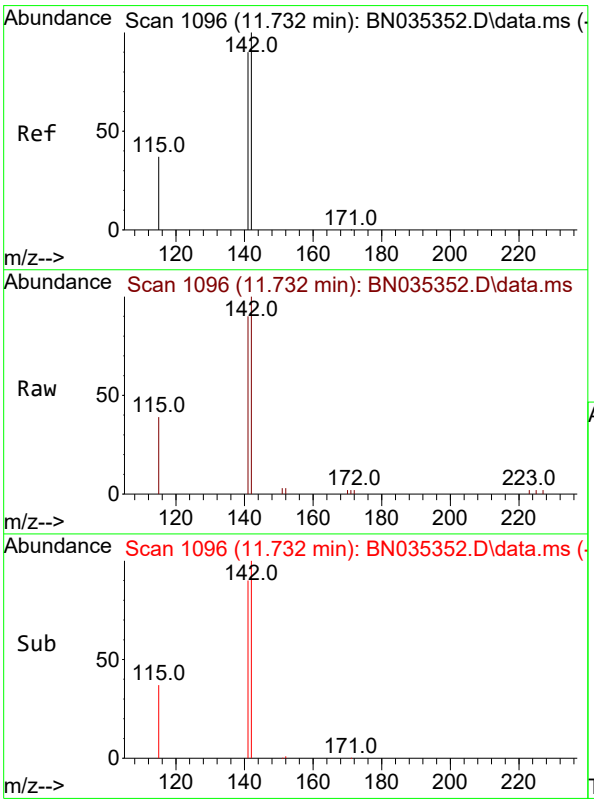
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

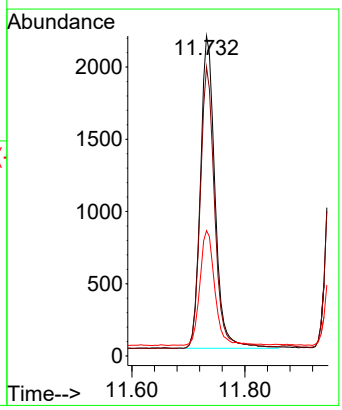


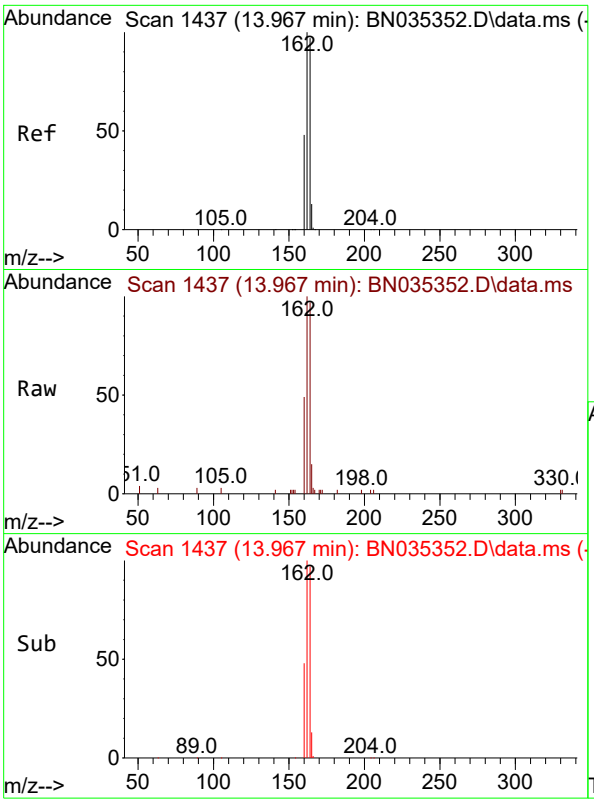


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0



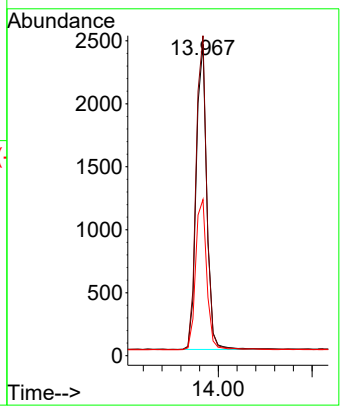


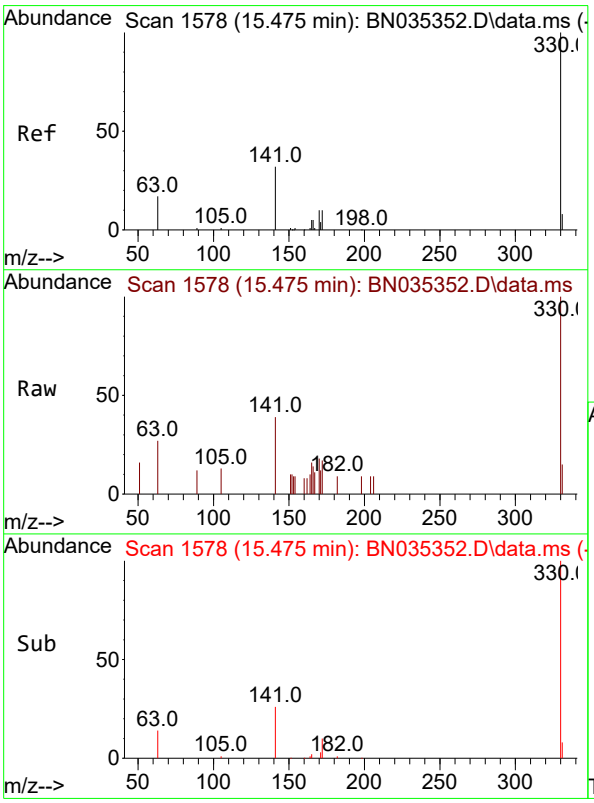
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1

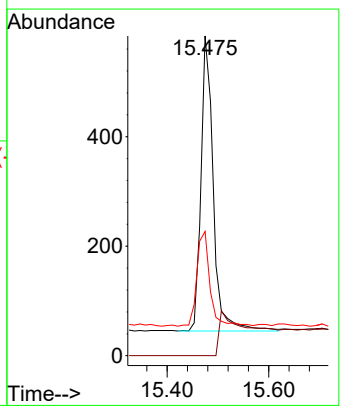


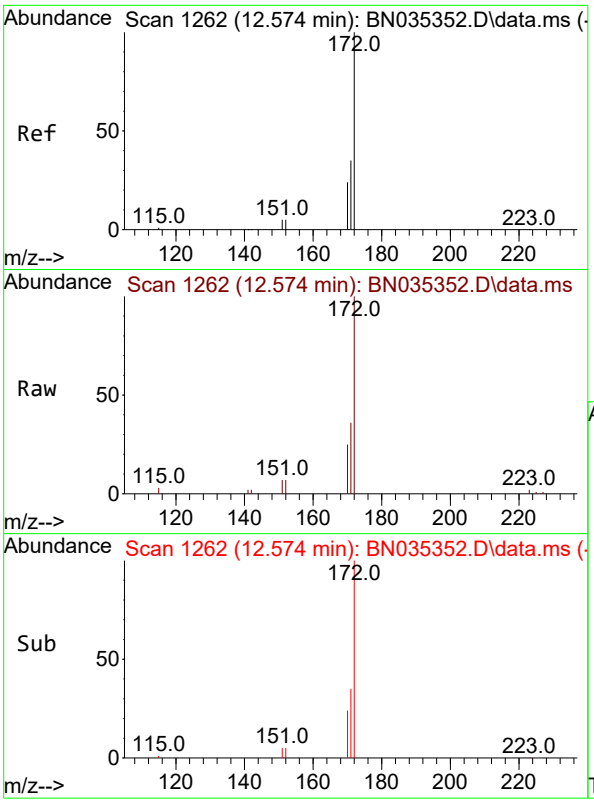


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



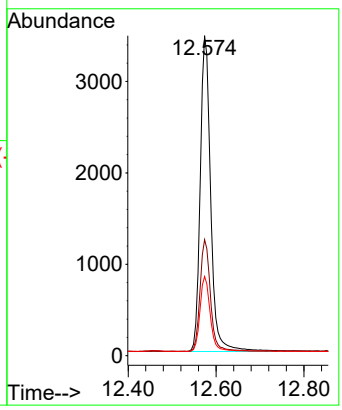


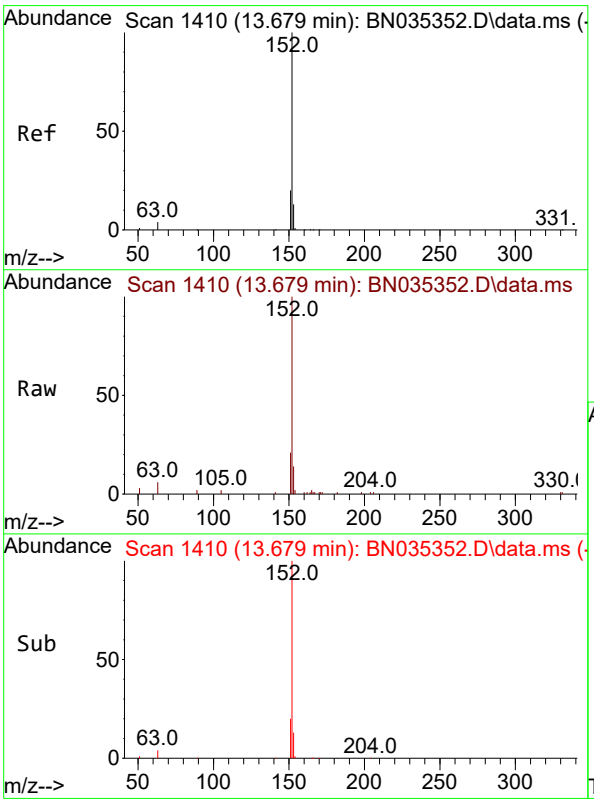
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 5735

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

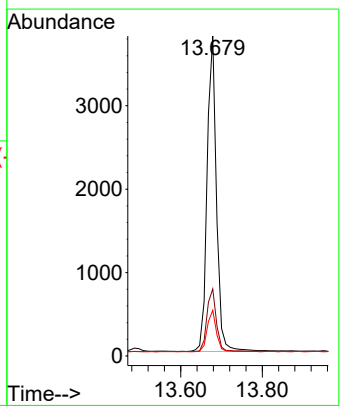


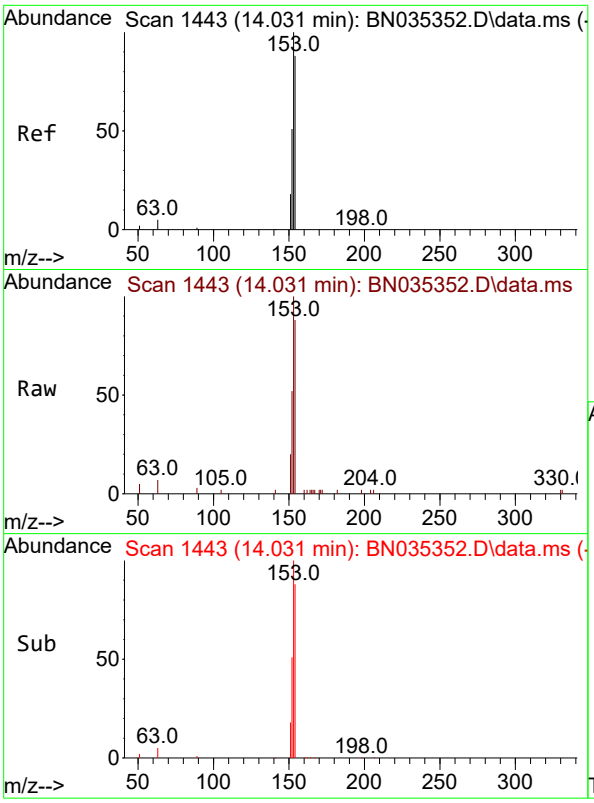


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6



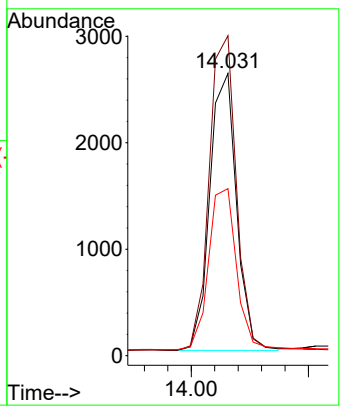


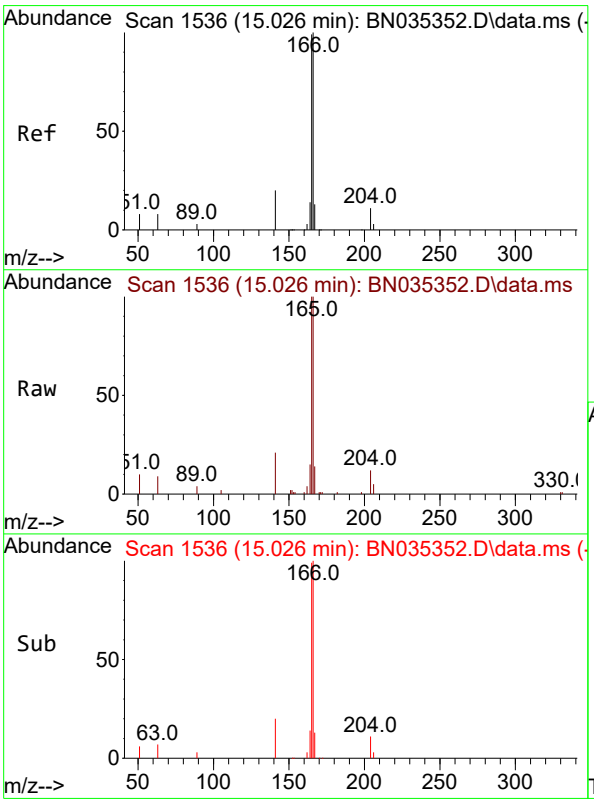
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 4125

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6

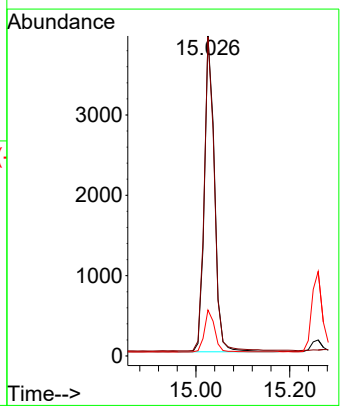


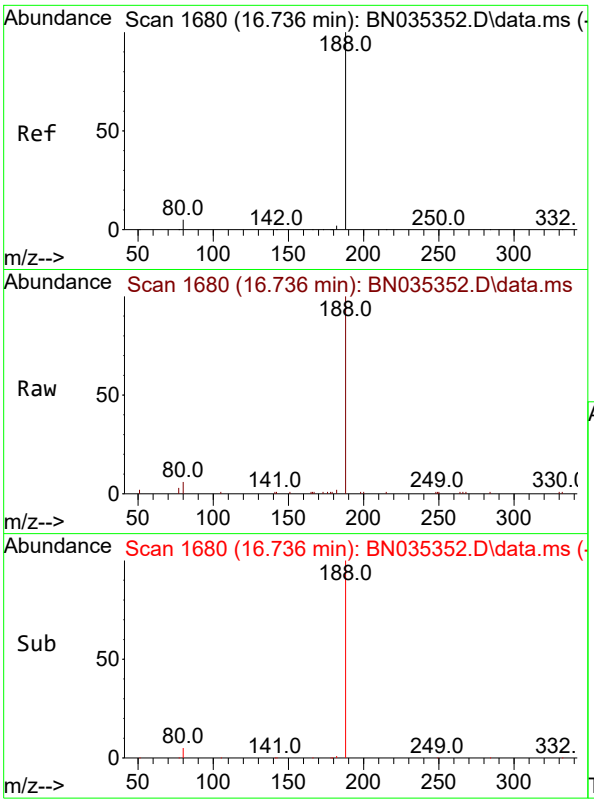


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2



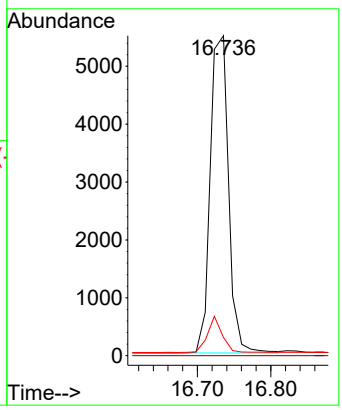


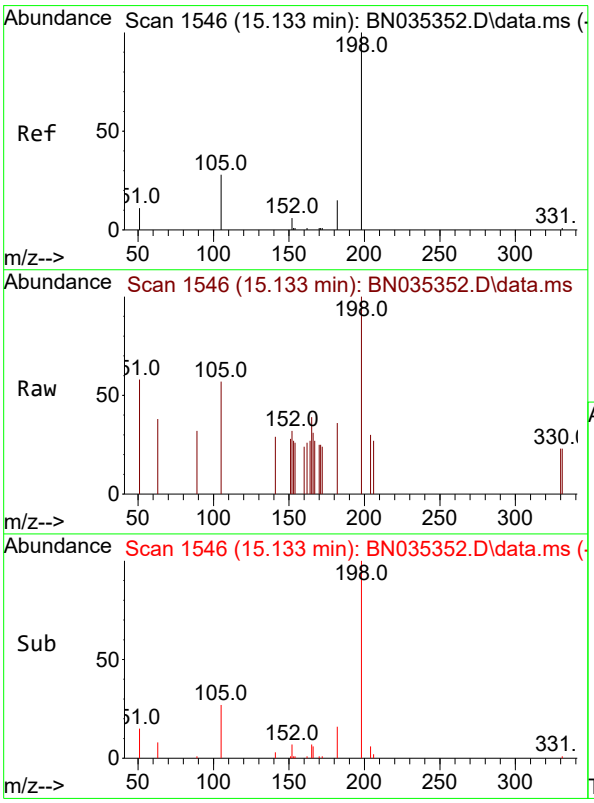
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

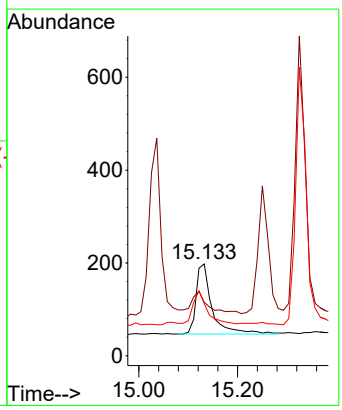


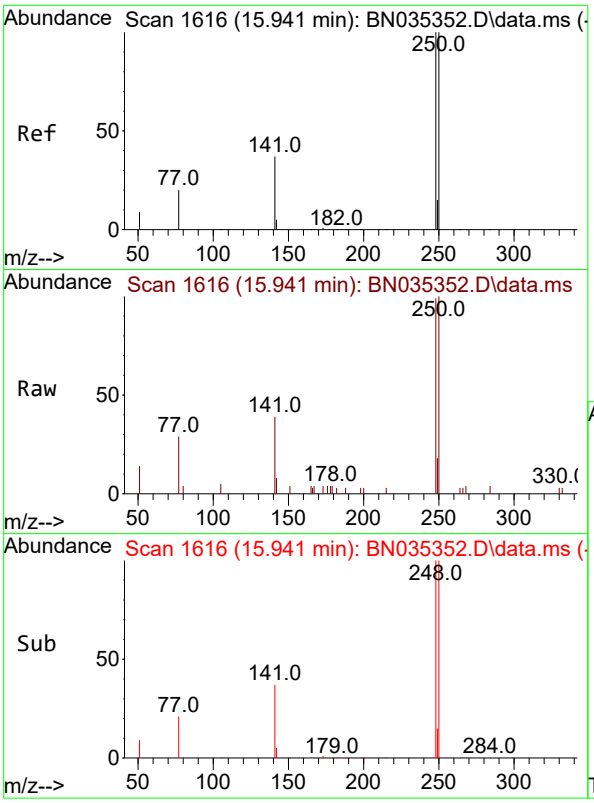


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9



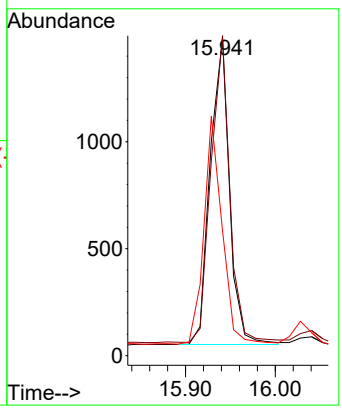


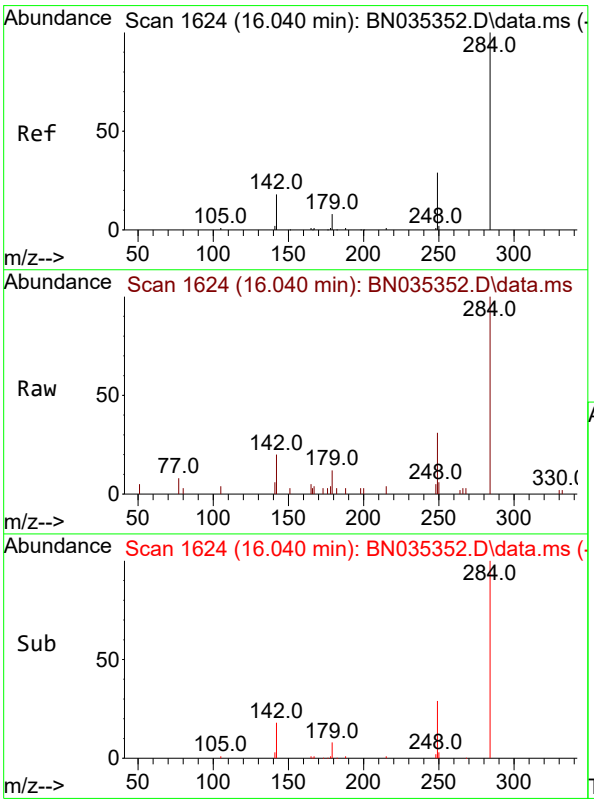
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2146

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

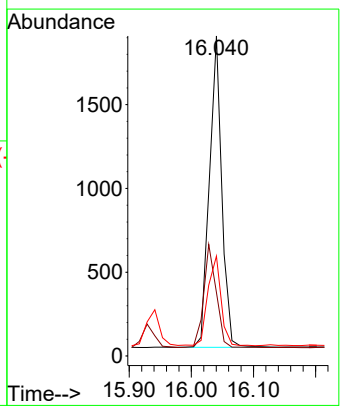


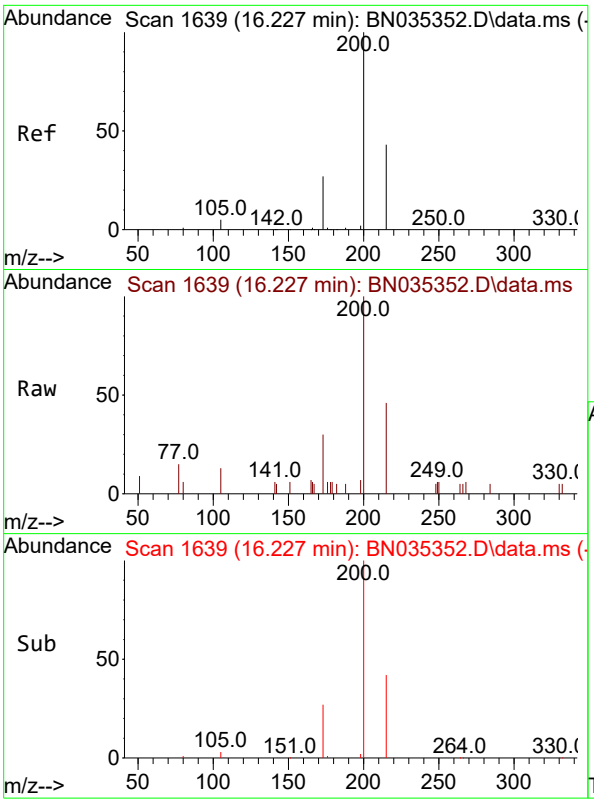


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8



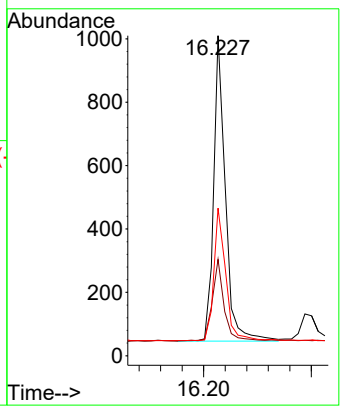


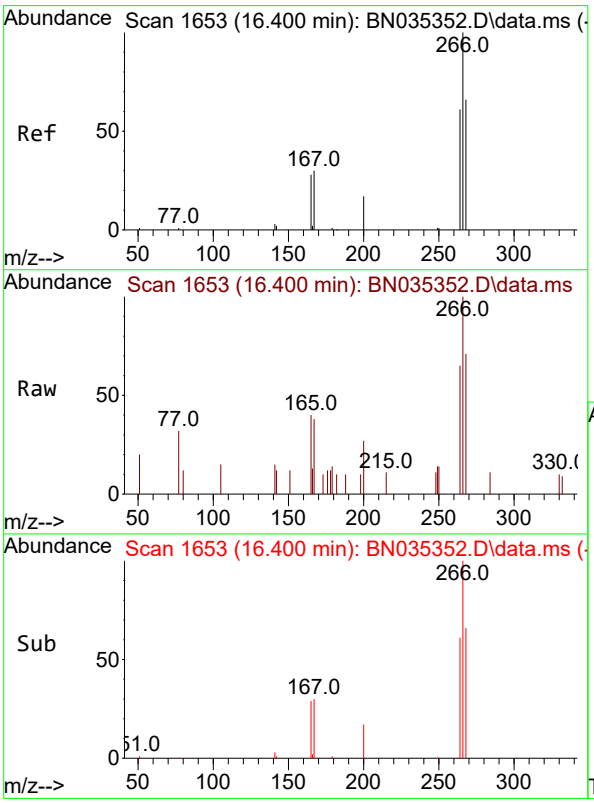
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1461

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3

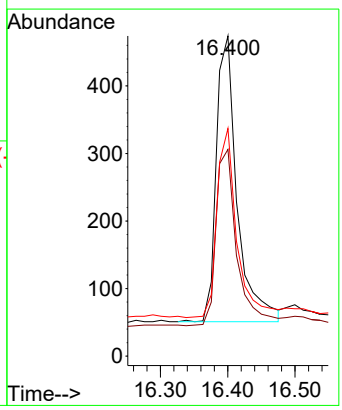


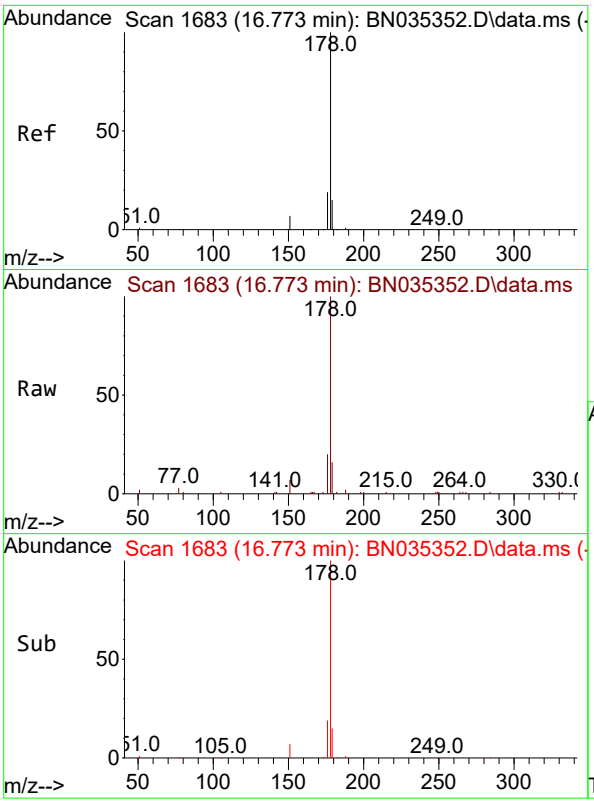


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9



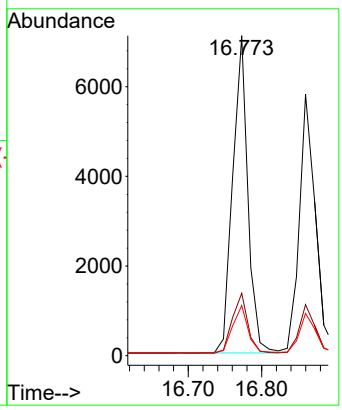


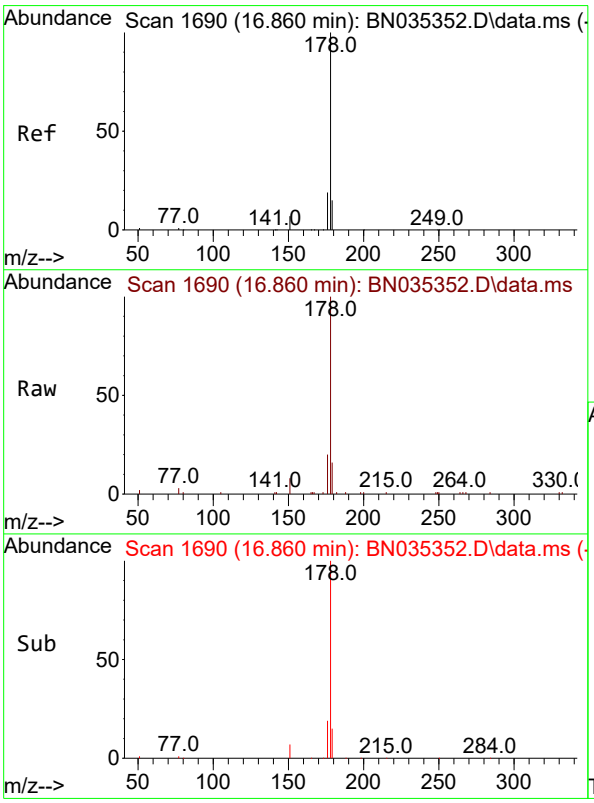
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 10127

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

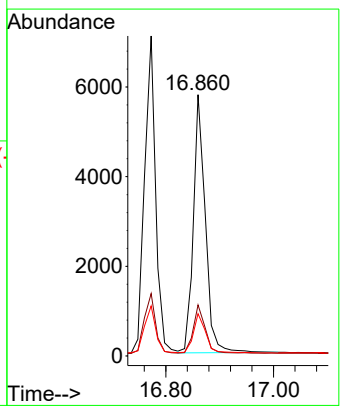


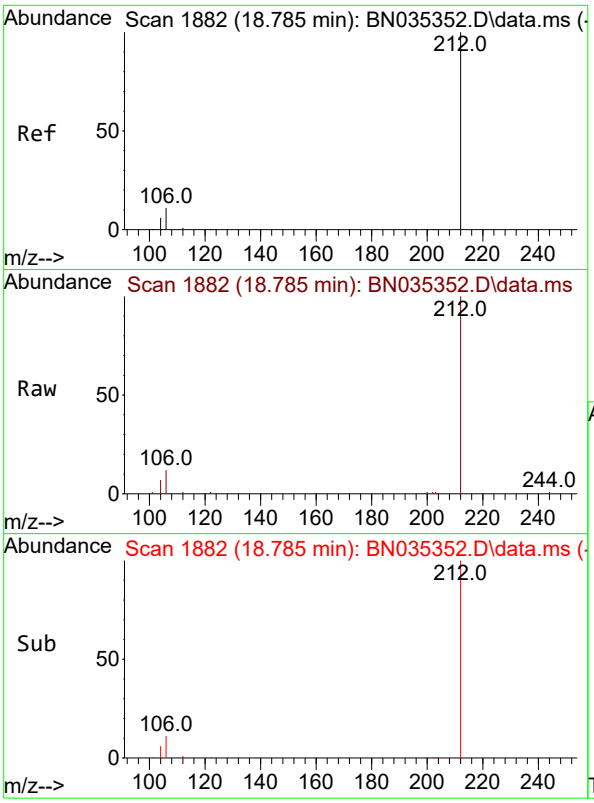


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8



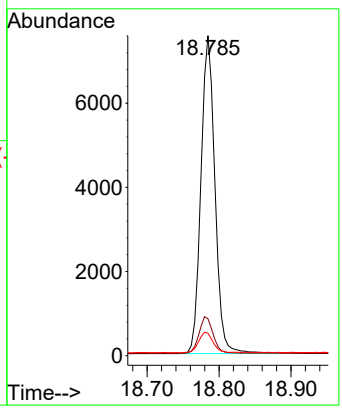


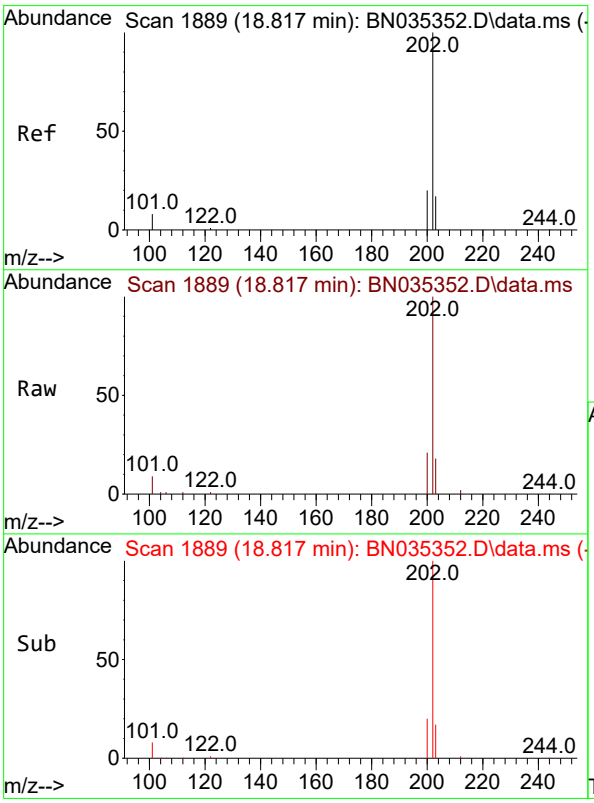
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 10223

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

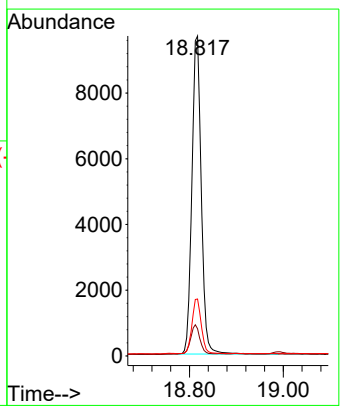


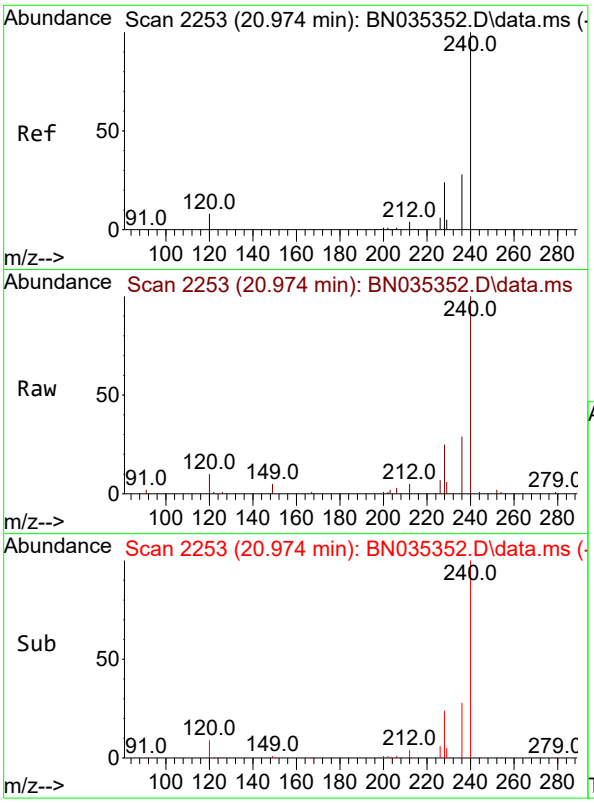


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



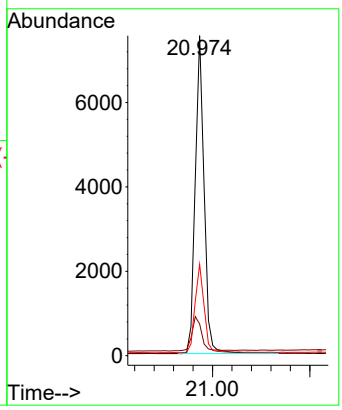


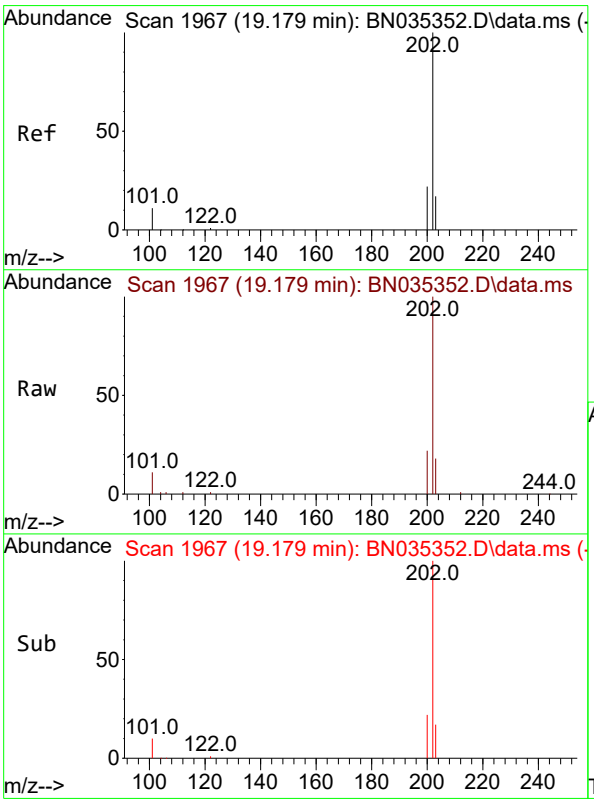
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9527

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

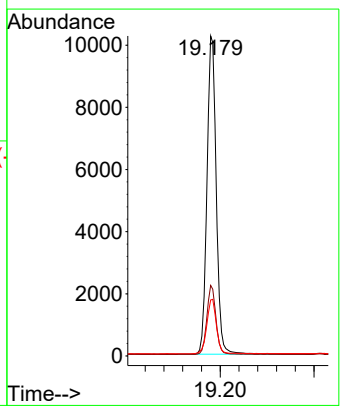


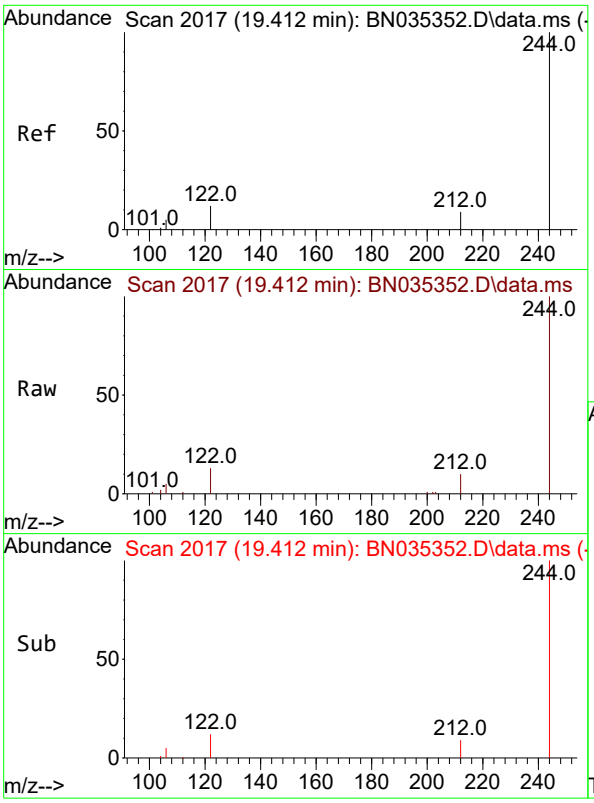


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



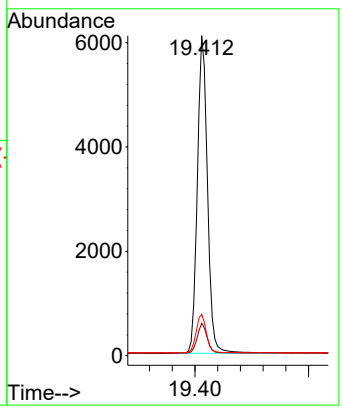


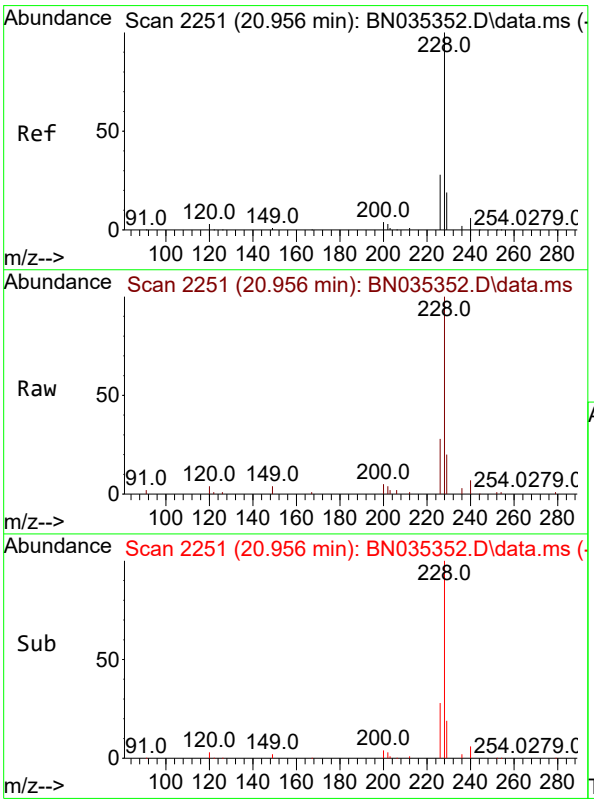
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 7533

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

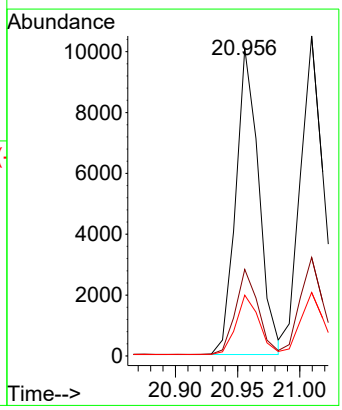


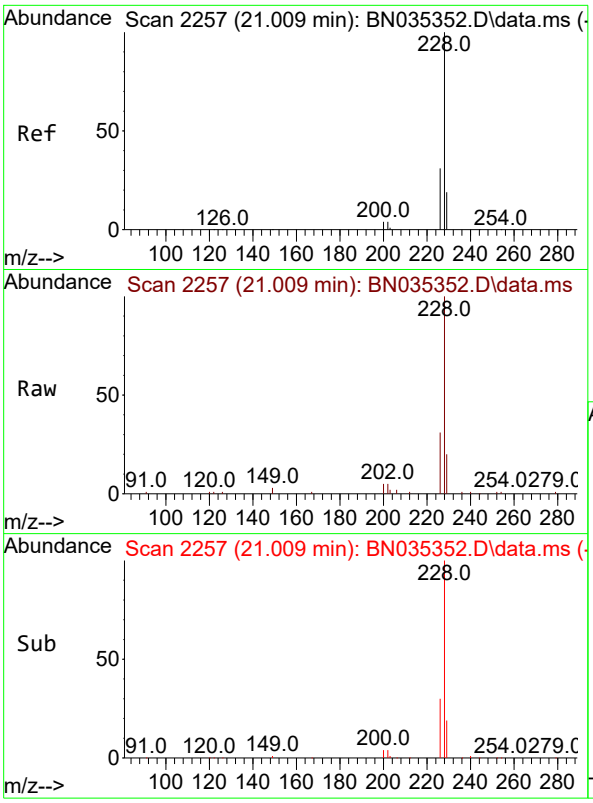


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8



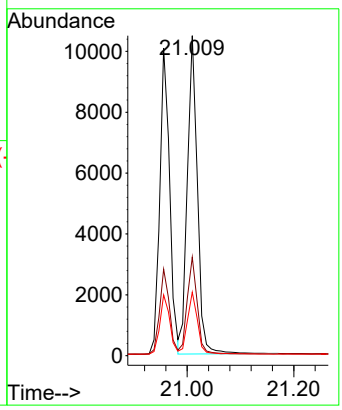


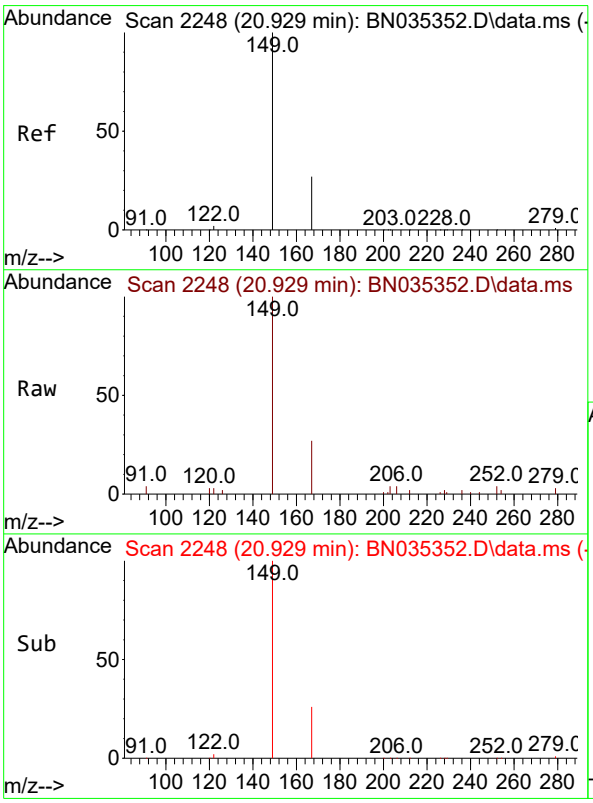
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9

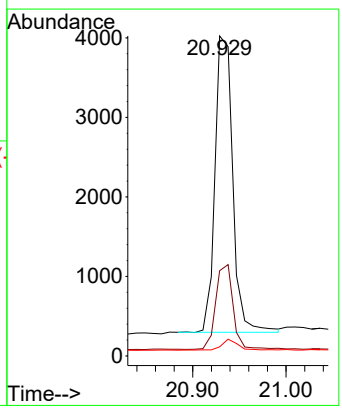


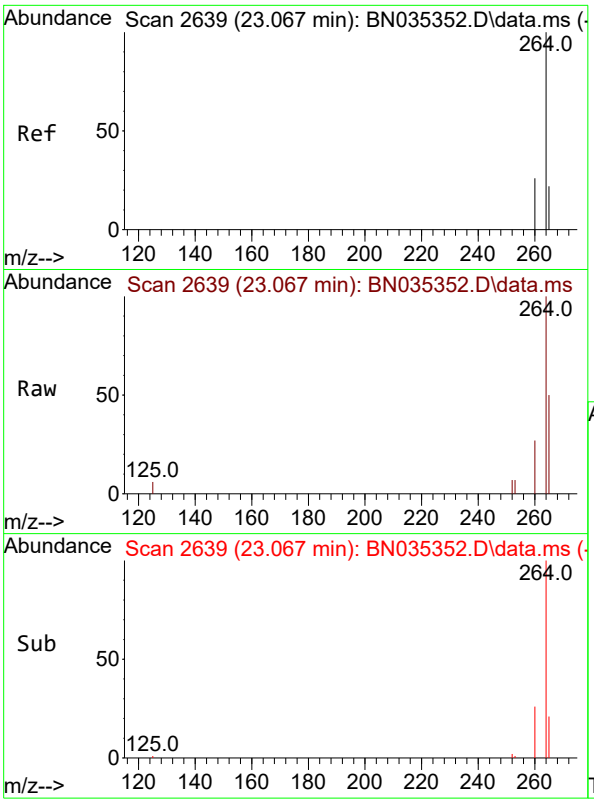


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1



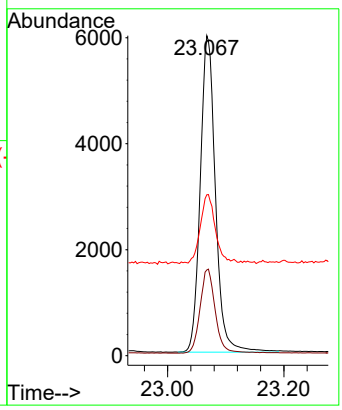


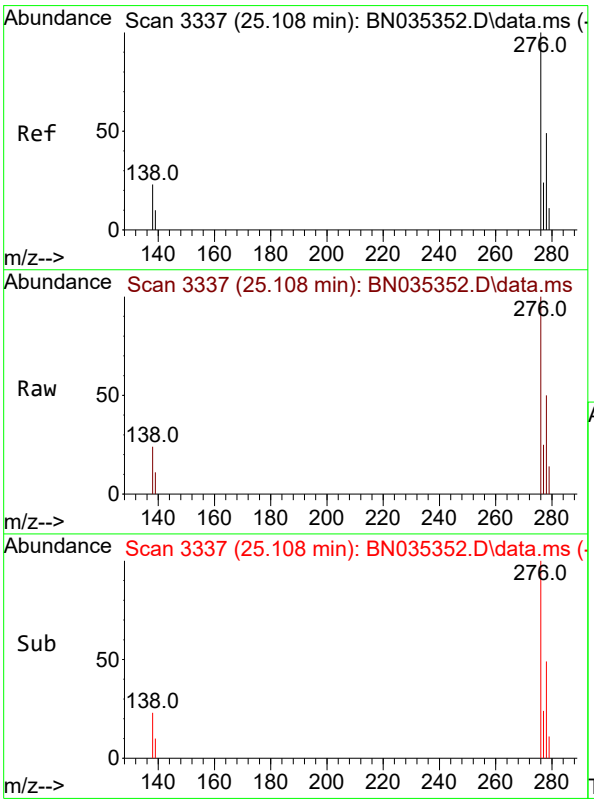
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

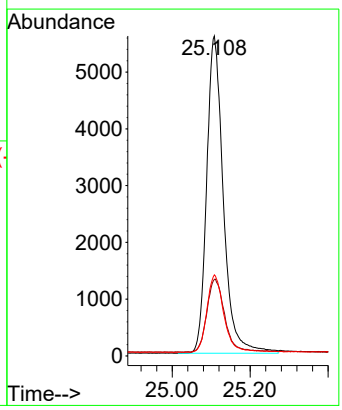


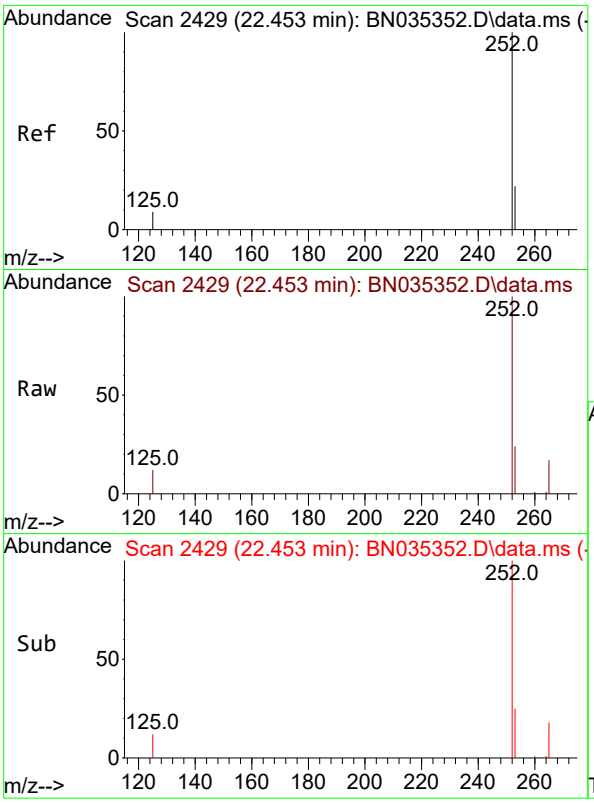


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6



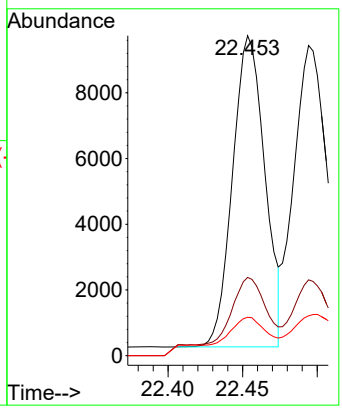


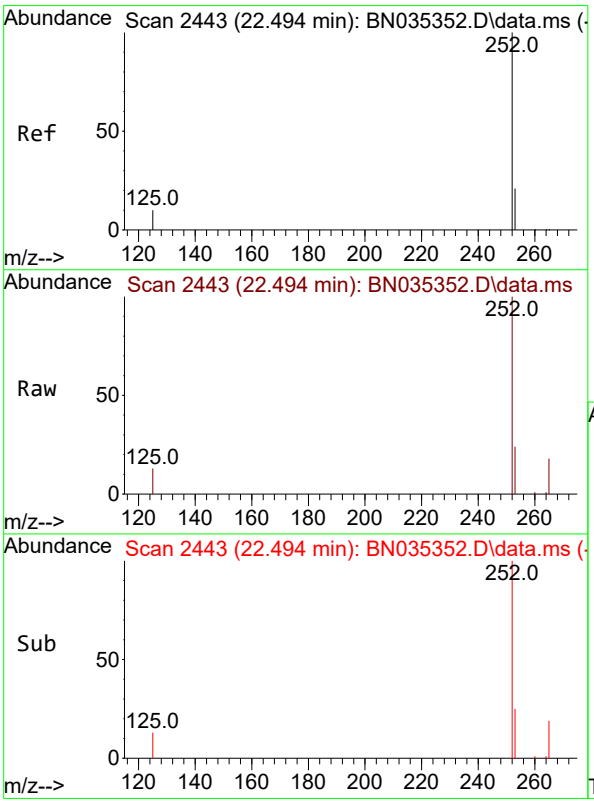
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 14235

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4

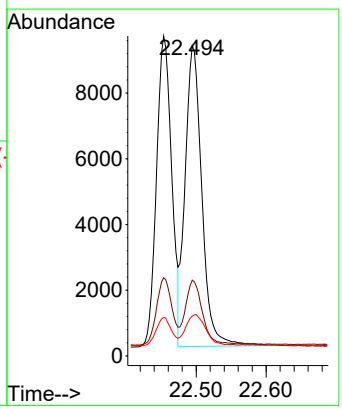


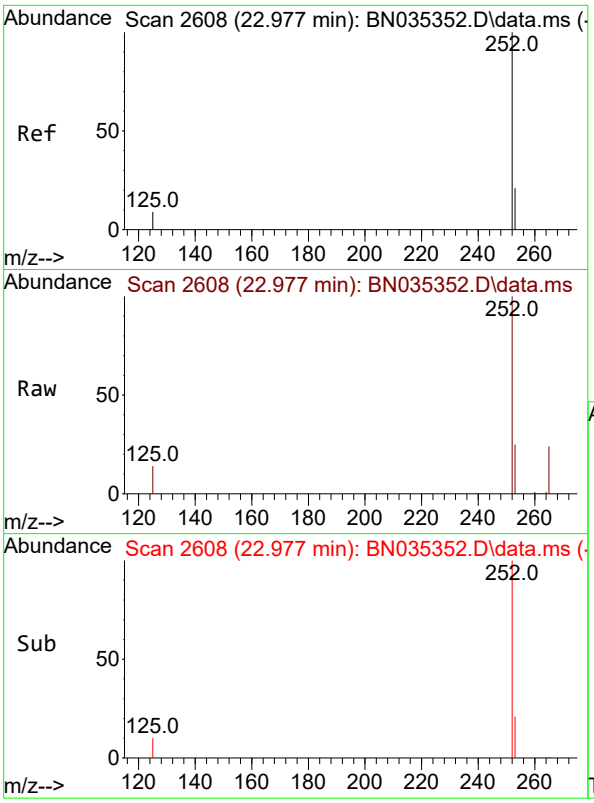


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4



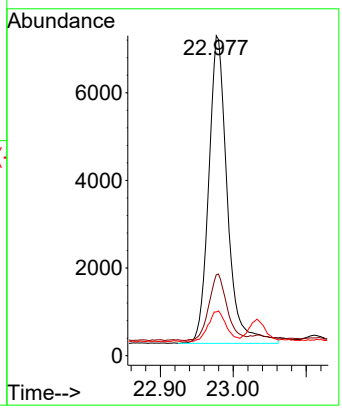


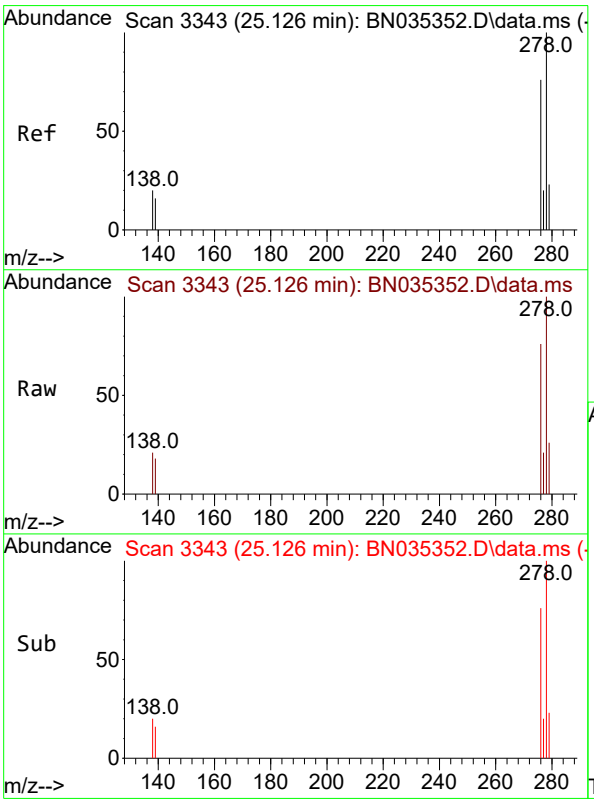
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 12425

Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

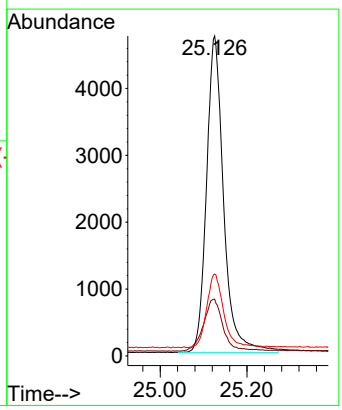


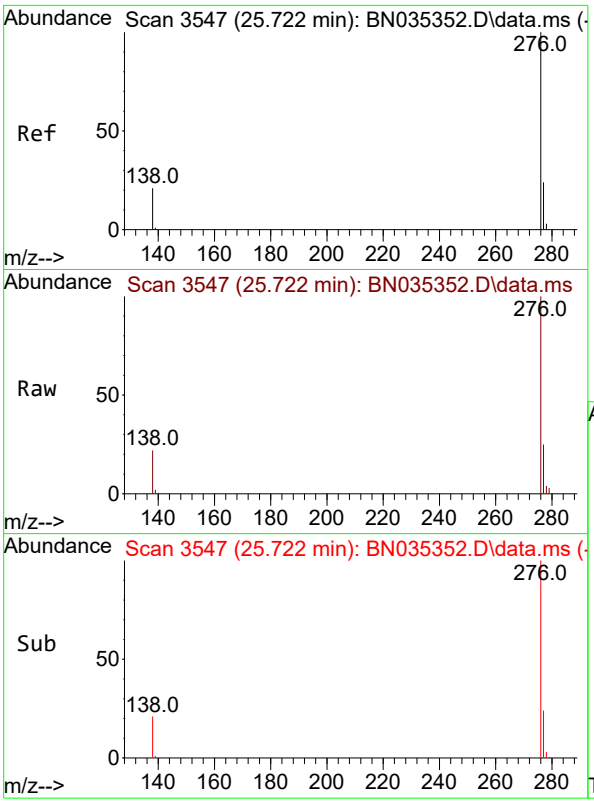


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



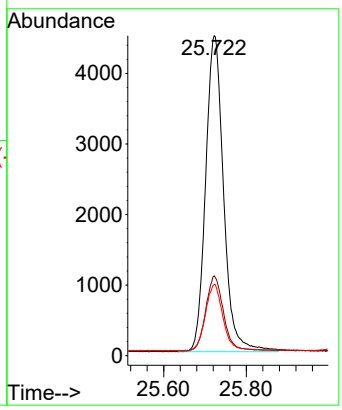


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13529

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

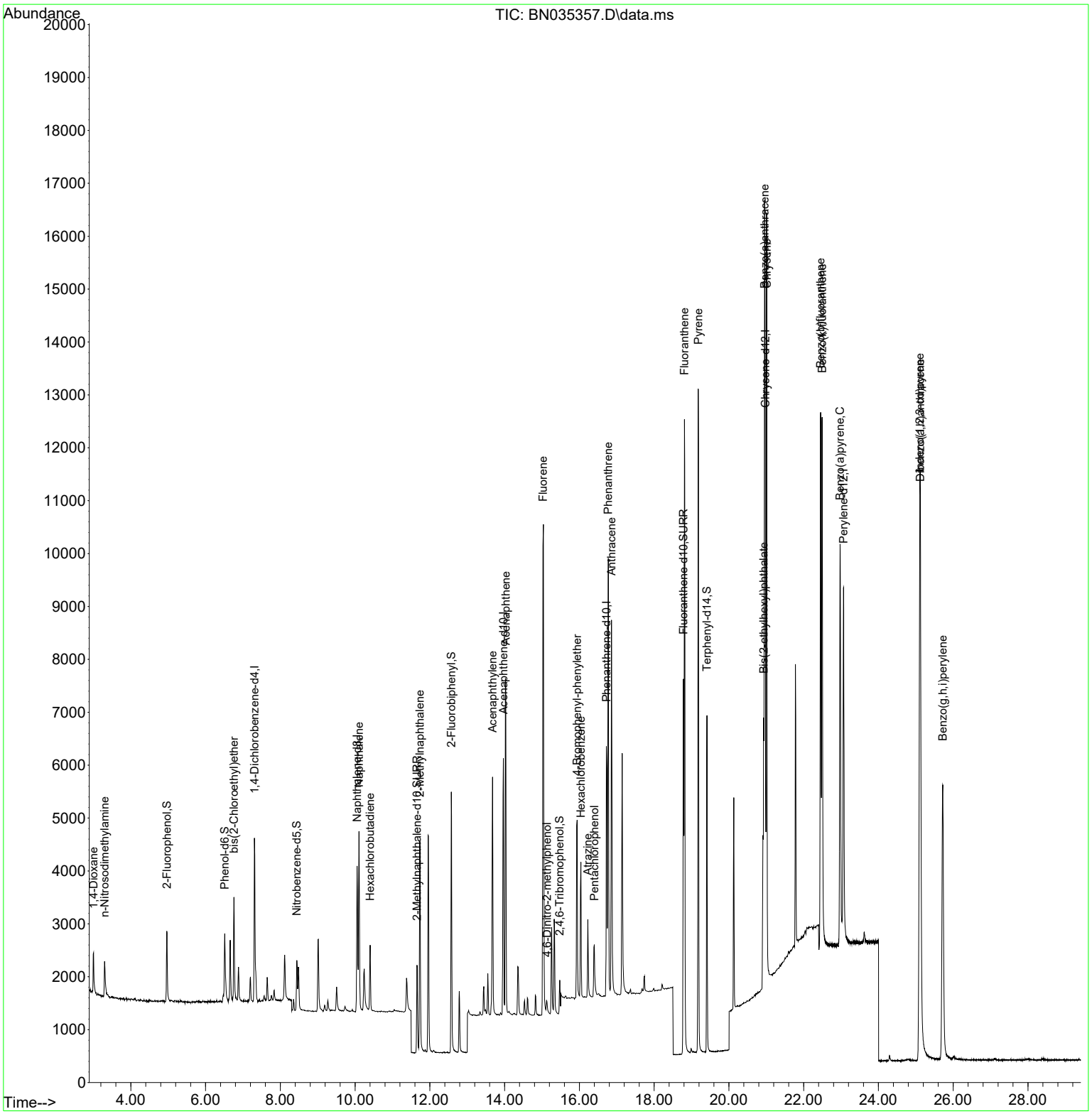
(#) = qualifier out of range (m) = manual integration (+) = signals summed

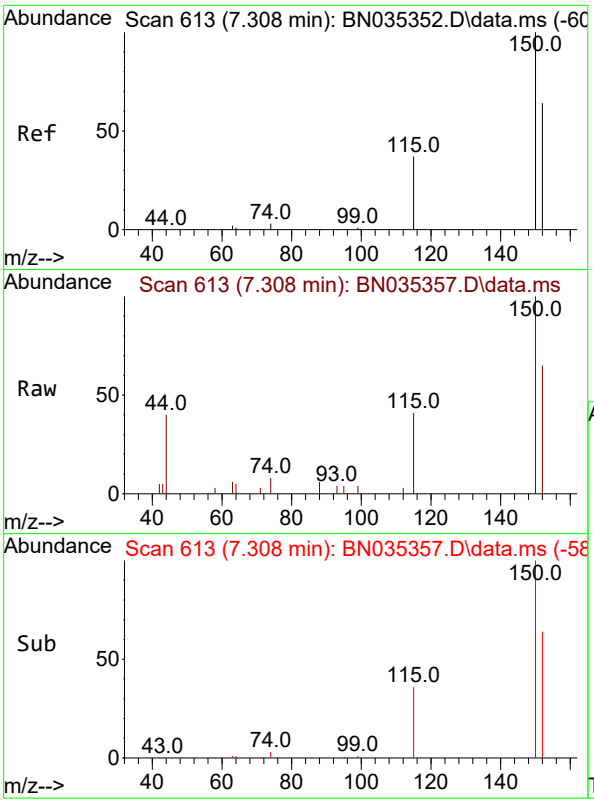
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



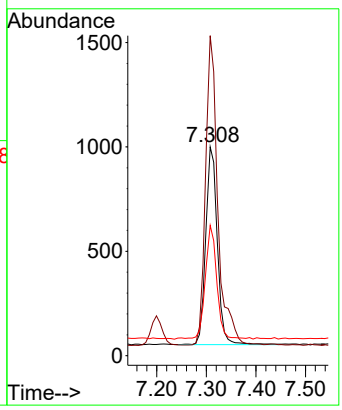


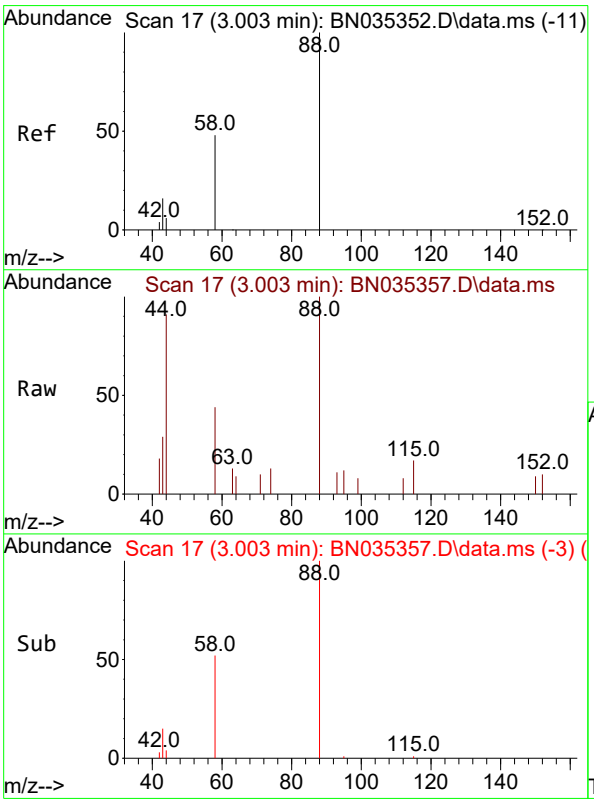
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 1540

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4

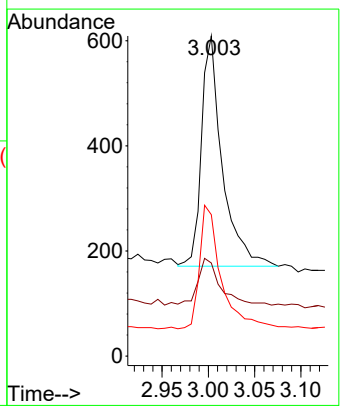


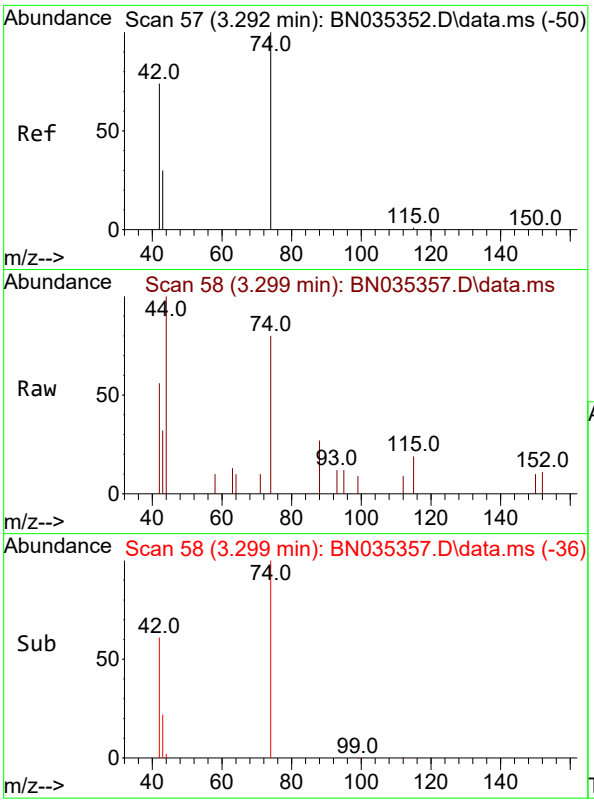


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7



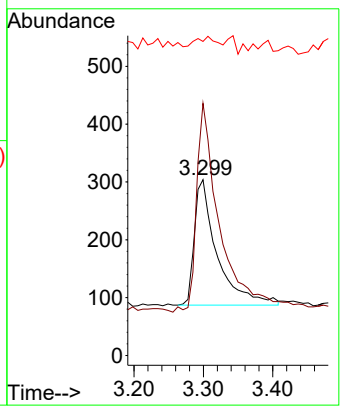


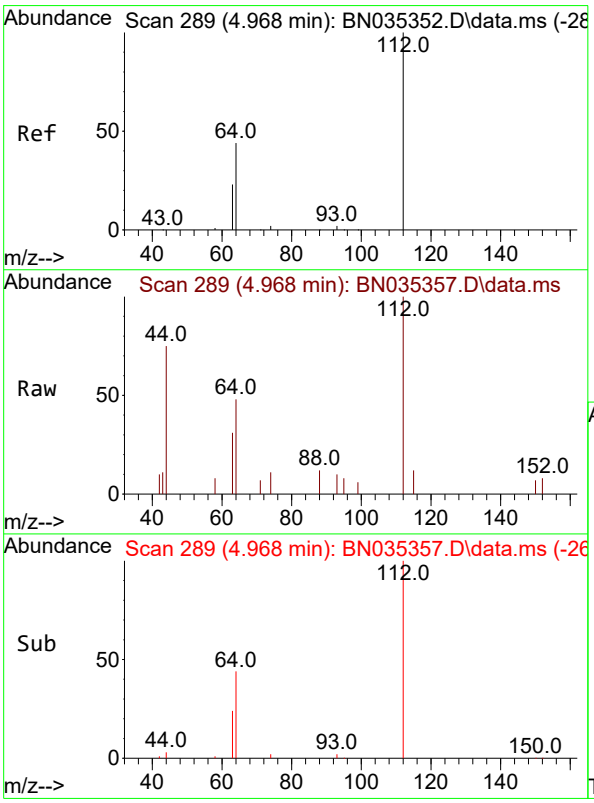
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 42 Resp: 495

Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4#

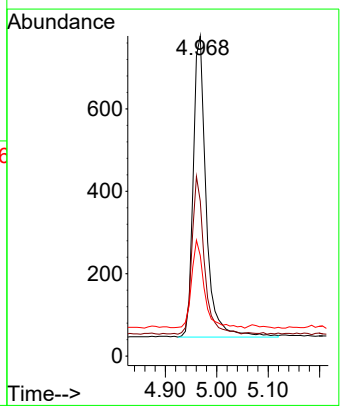


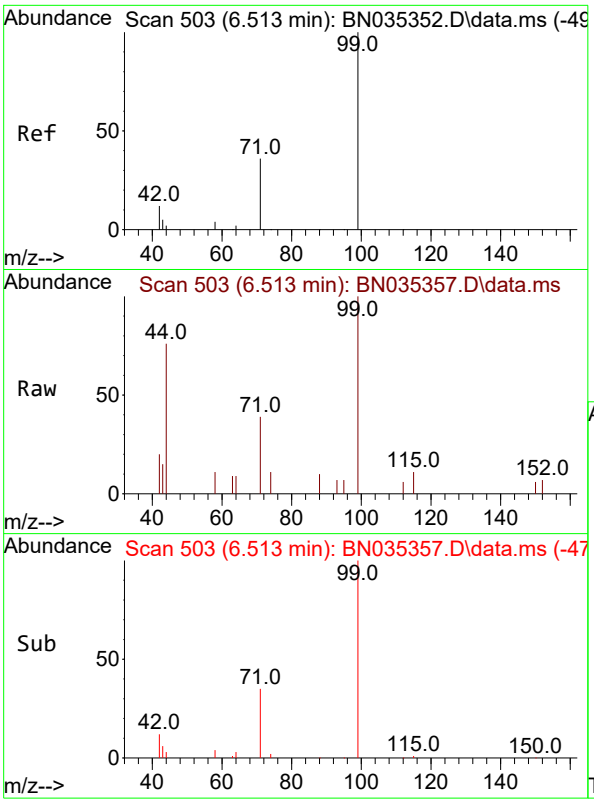


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6



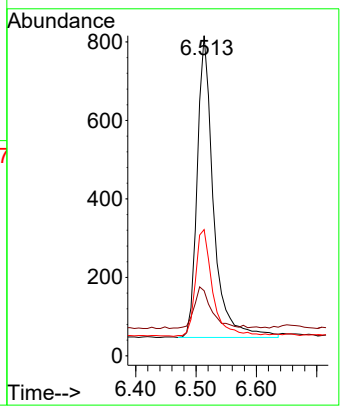


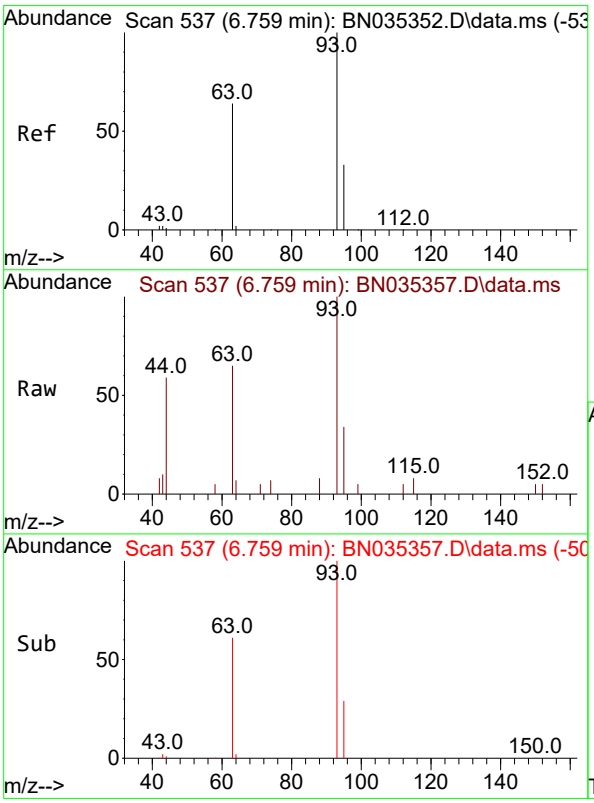
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 1437

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9

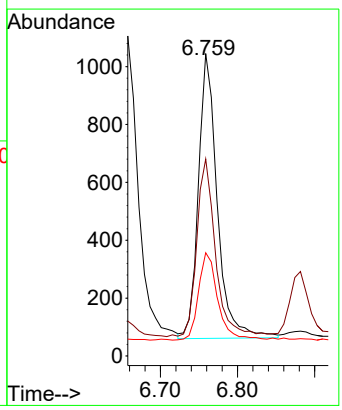


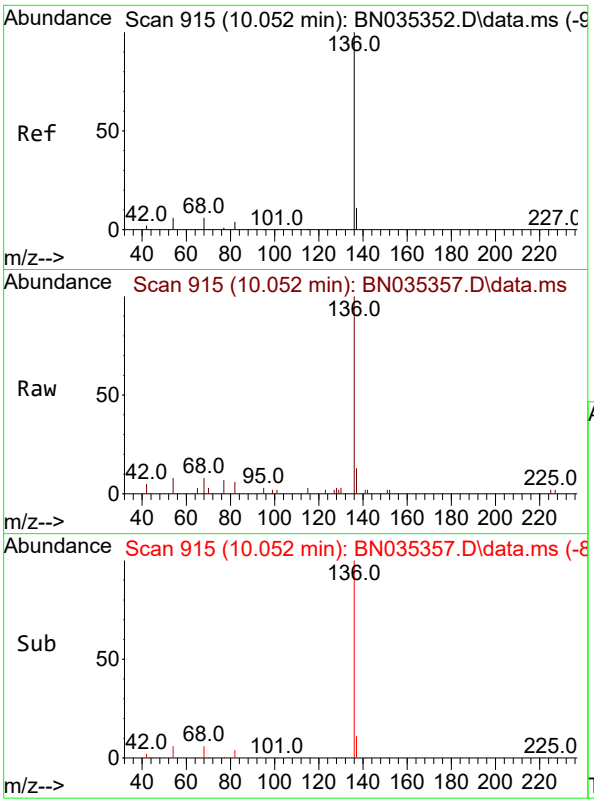


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5



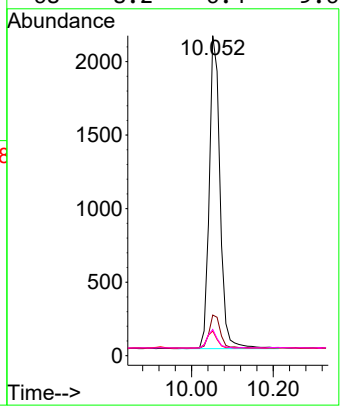


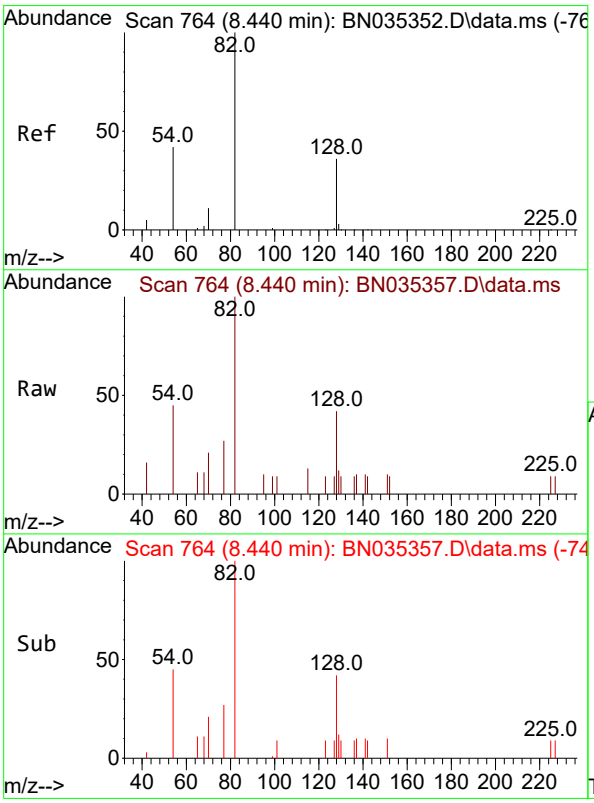
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:136 Resp: 3904

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6

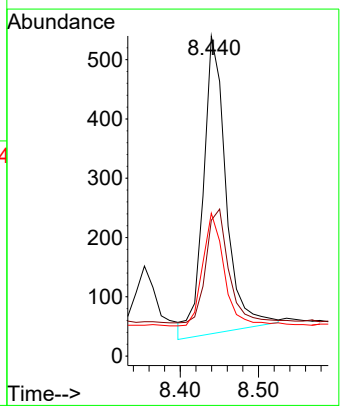


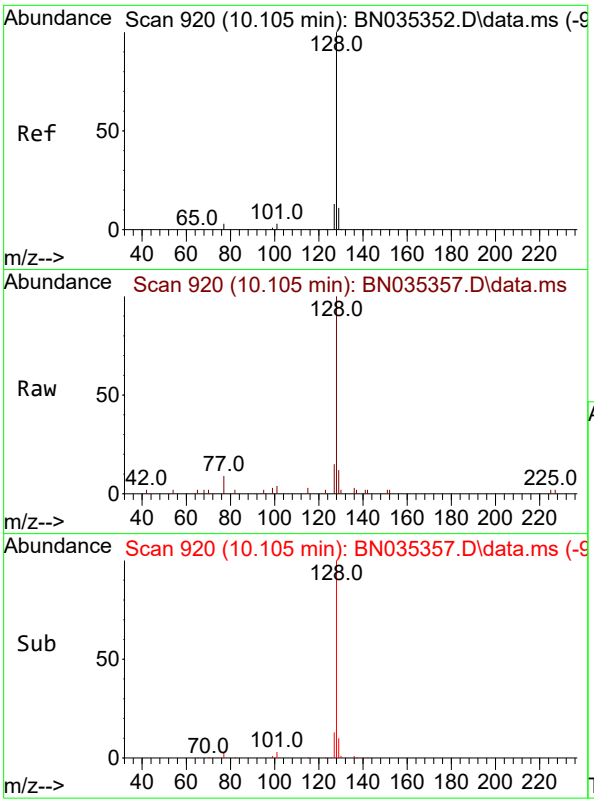


#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1



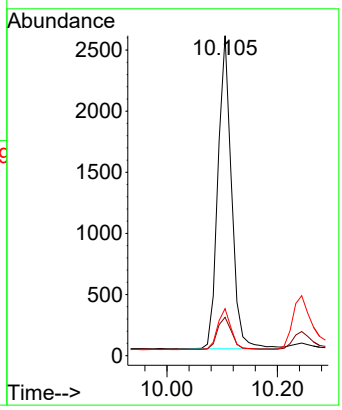


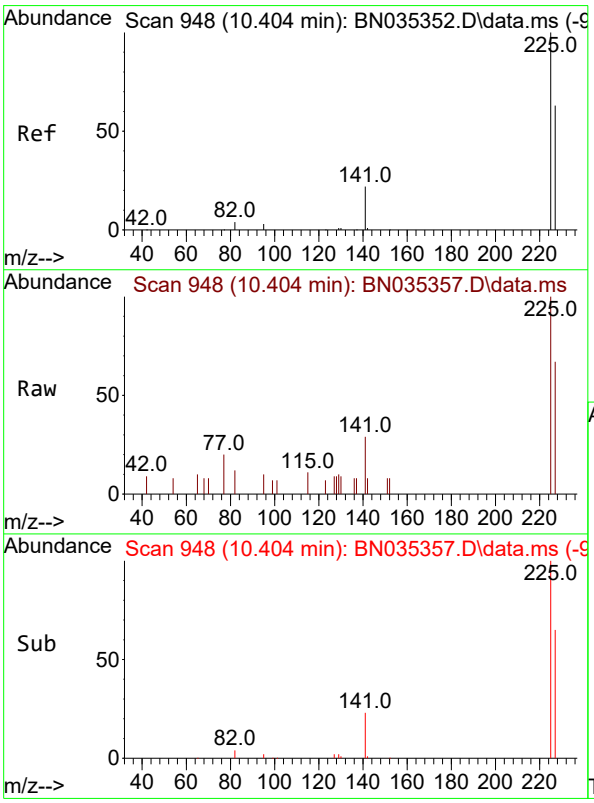
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:128 Resp: 4364

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2

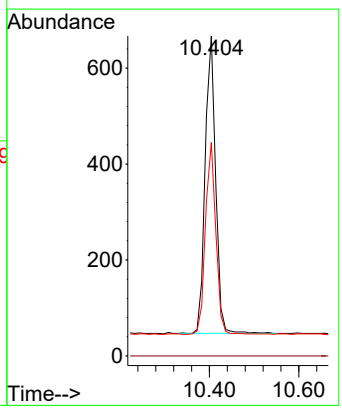


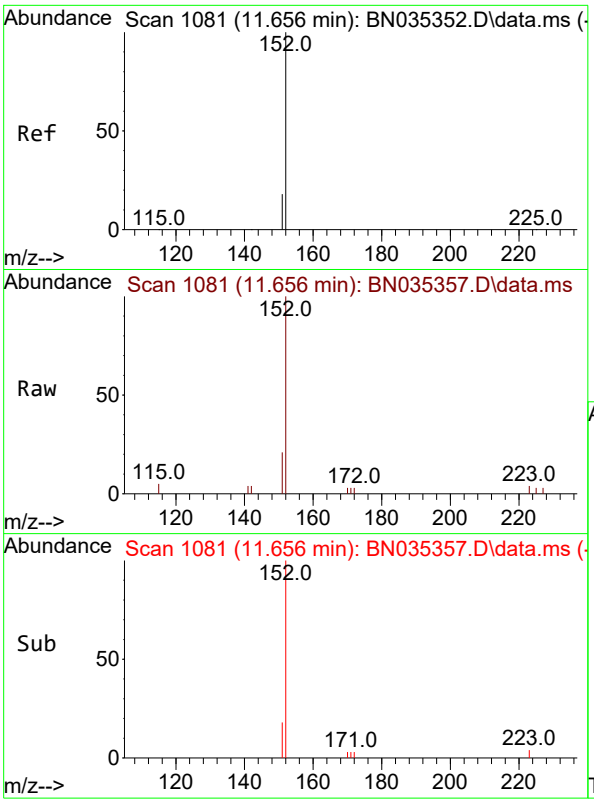


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



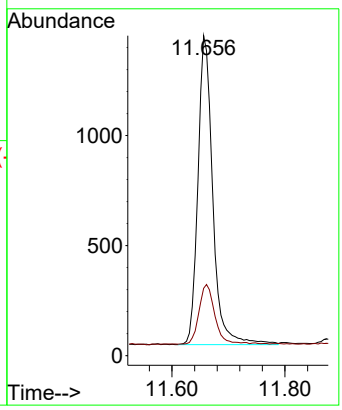


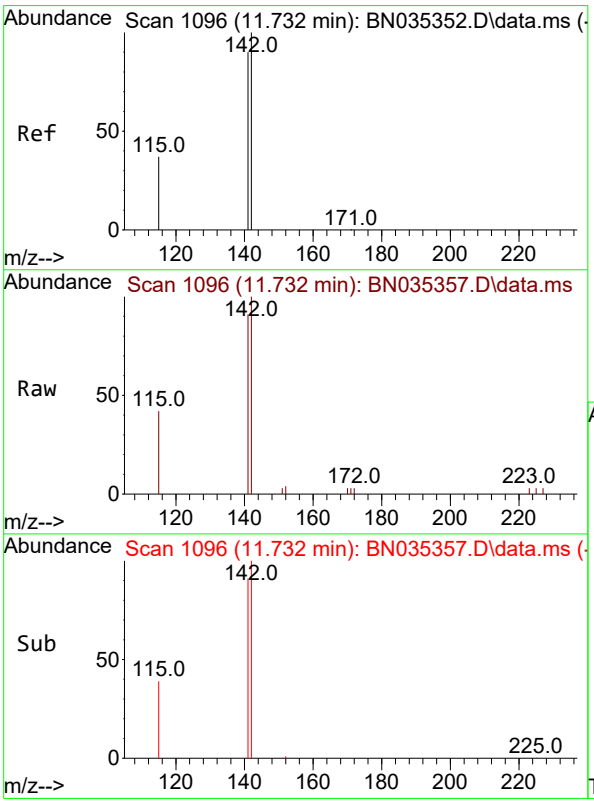
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 2565

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

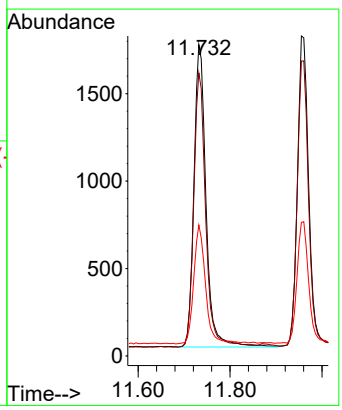


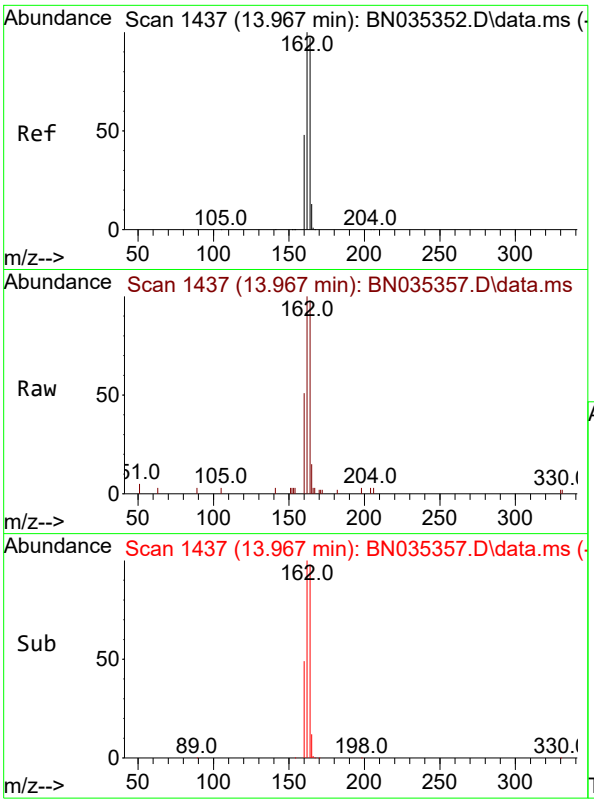


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0



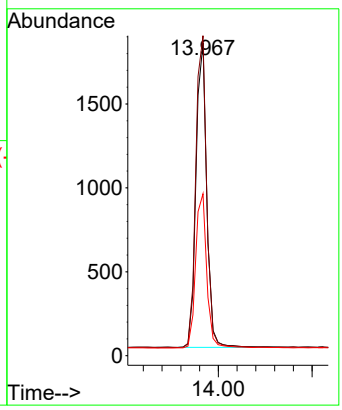


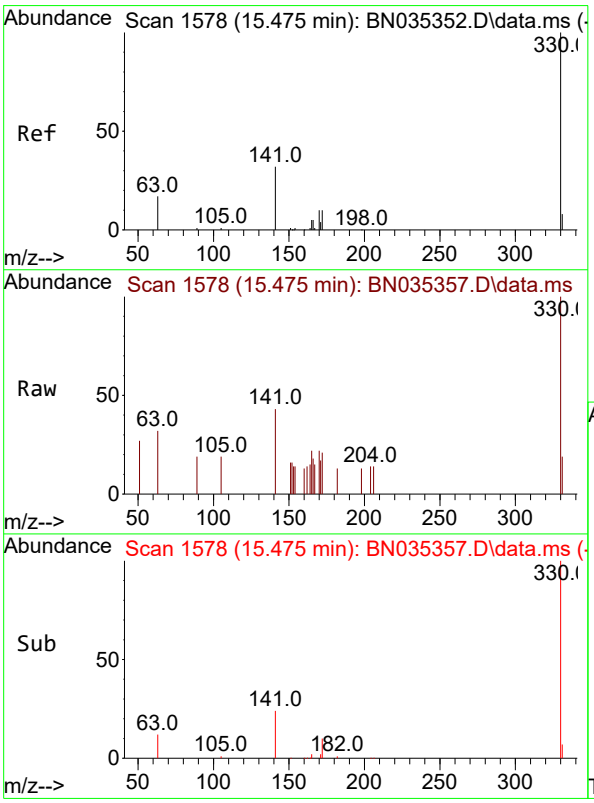
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:164 Resp: 2879

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1

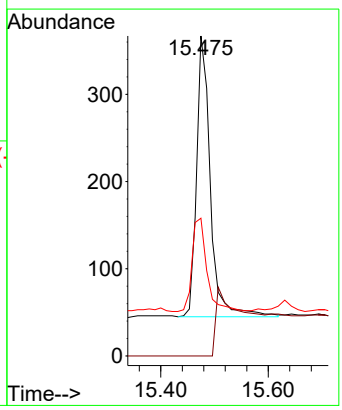


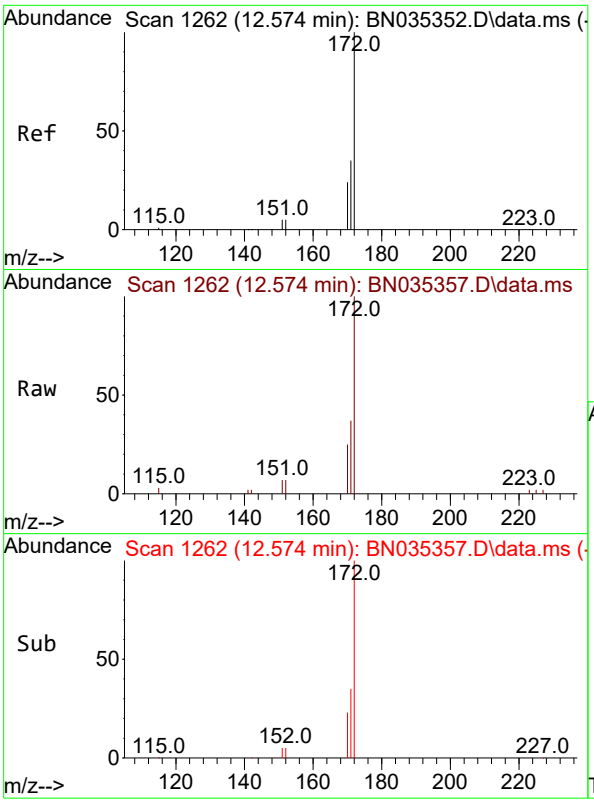


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0



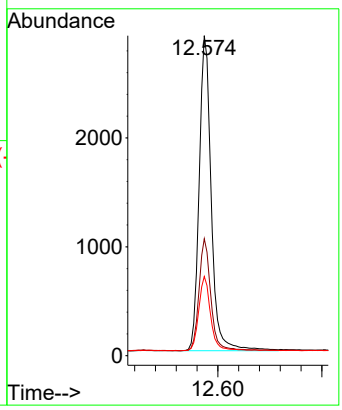


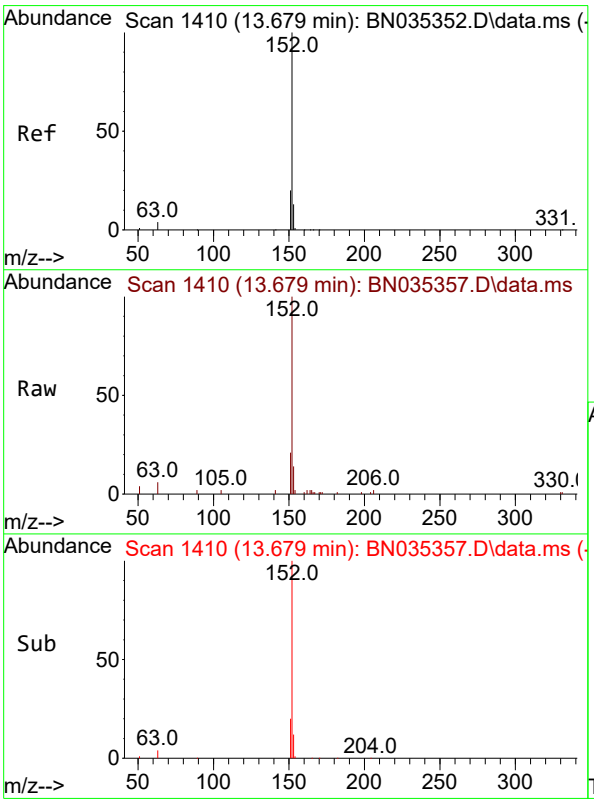
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:172 Resp: 4647

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8

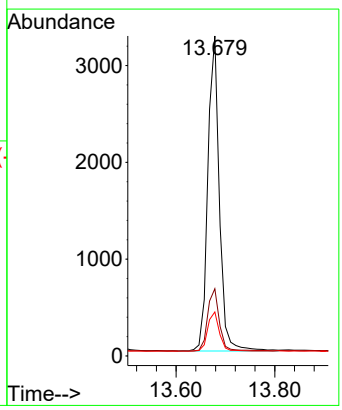


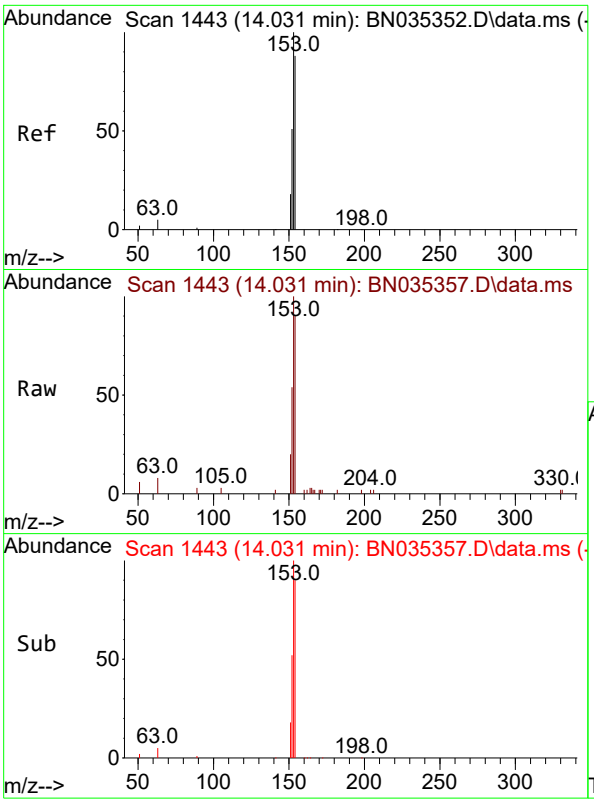


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6



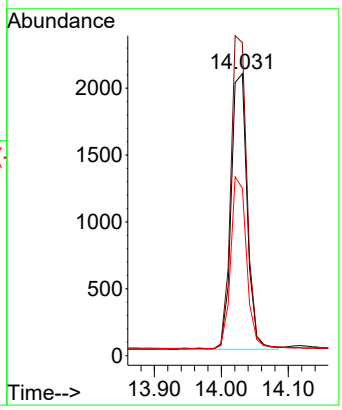


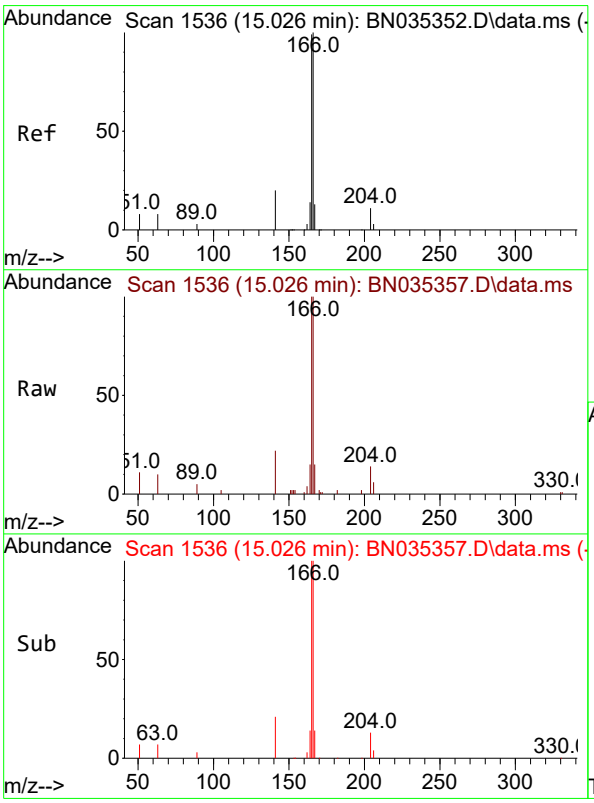
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:154 Resp: 3421

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

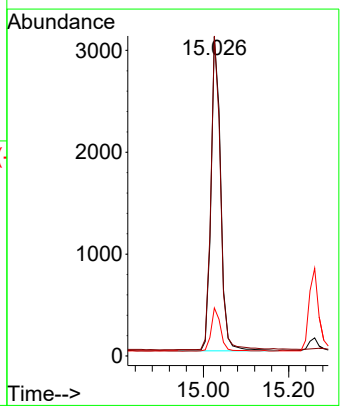


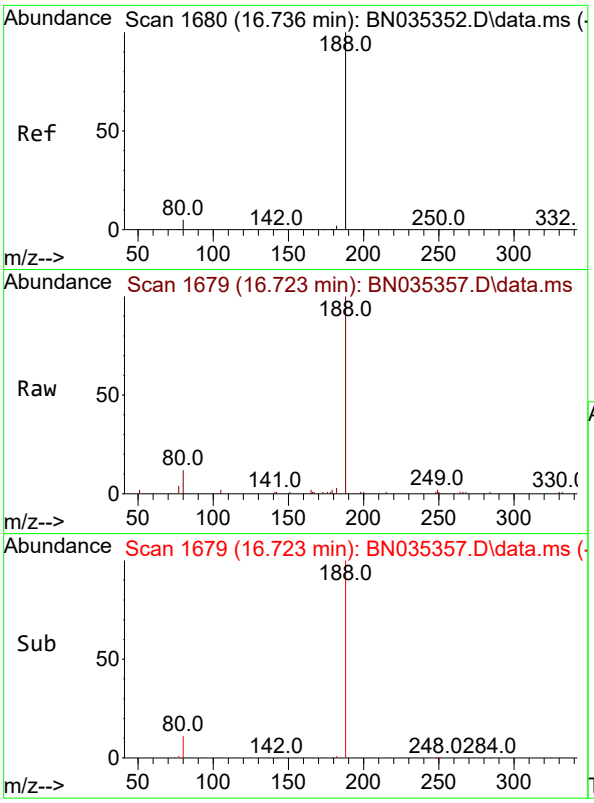


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2



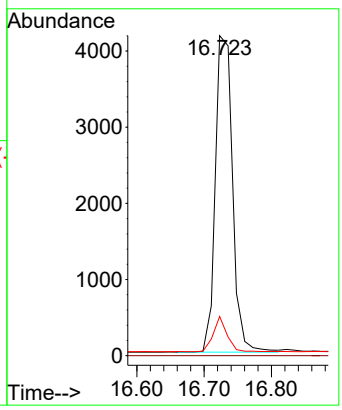


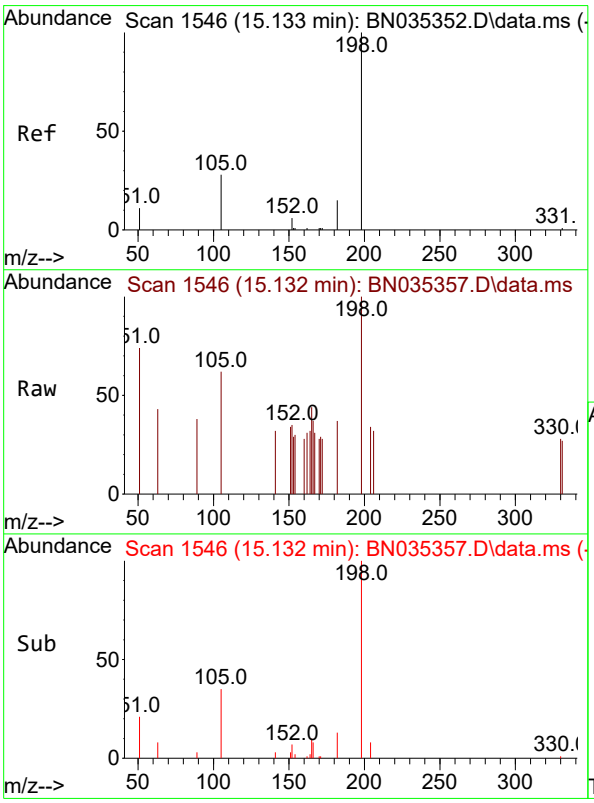
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:188 Resp: 7350

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#

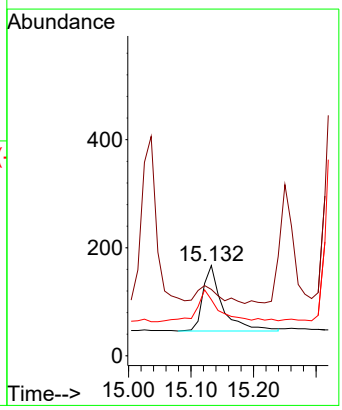


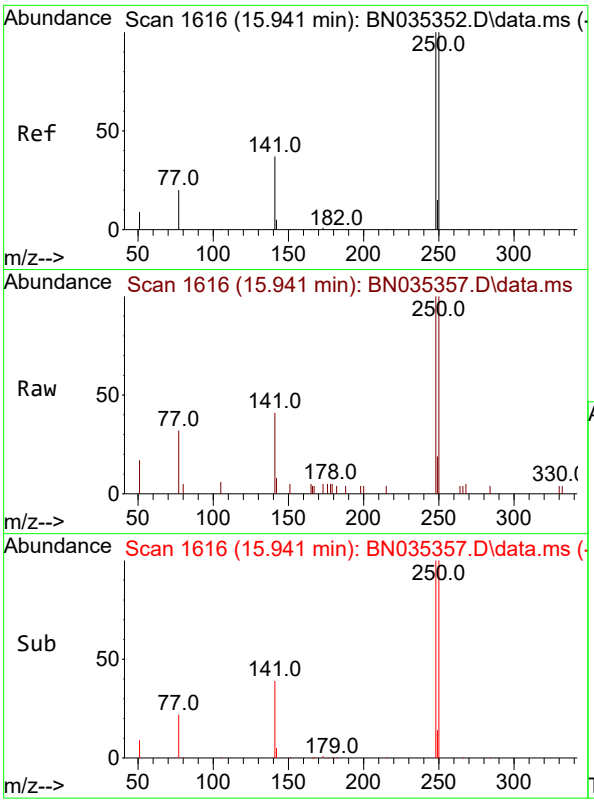


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9



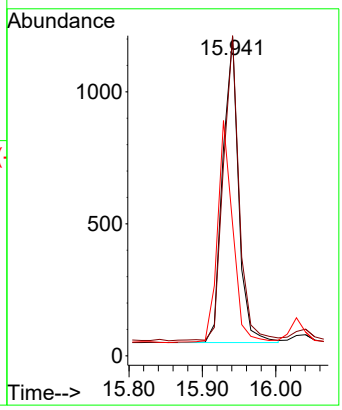


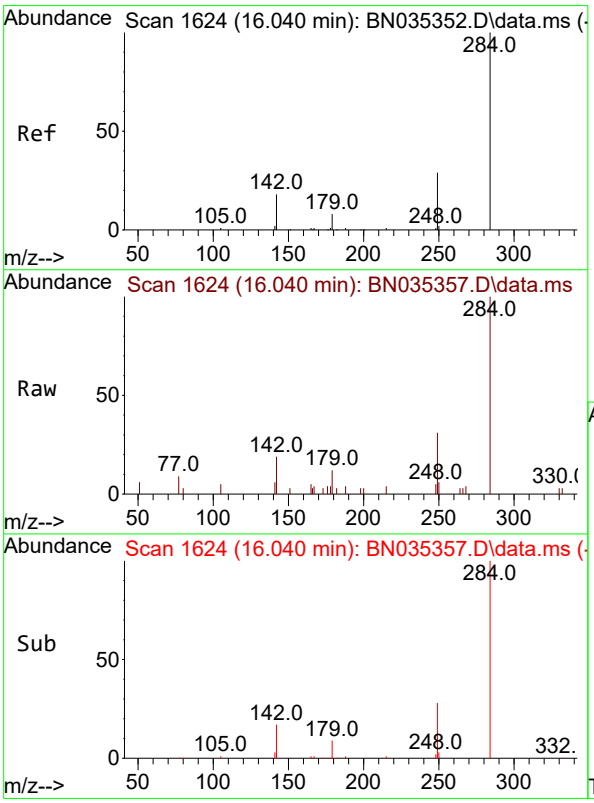
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:248 Resp: 1742

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

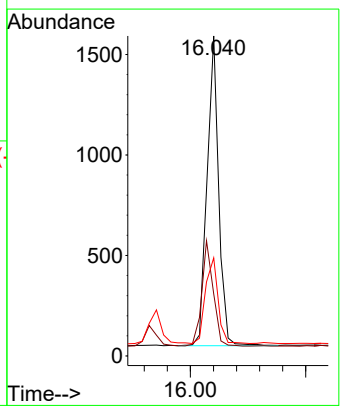


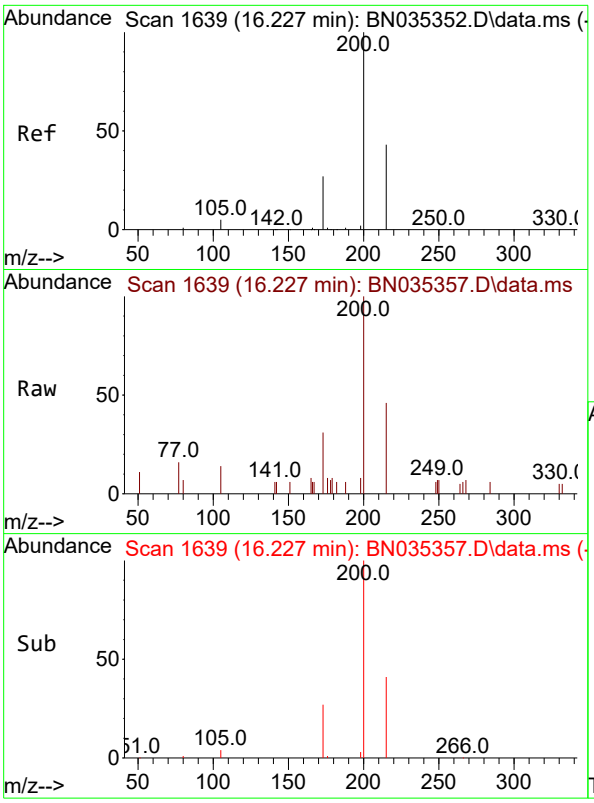


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8



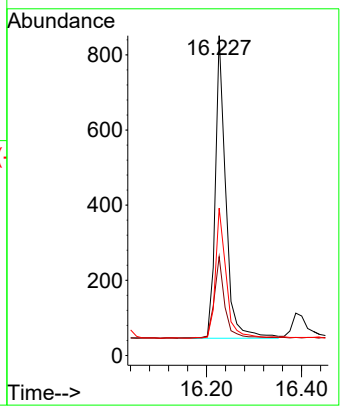


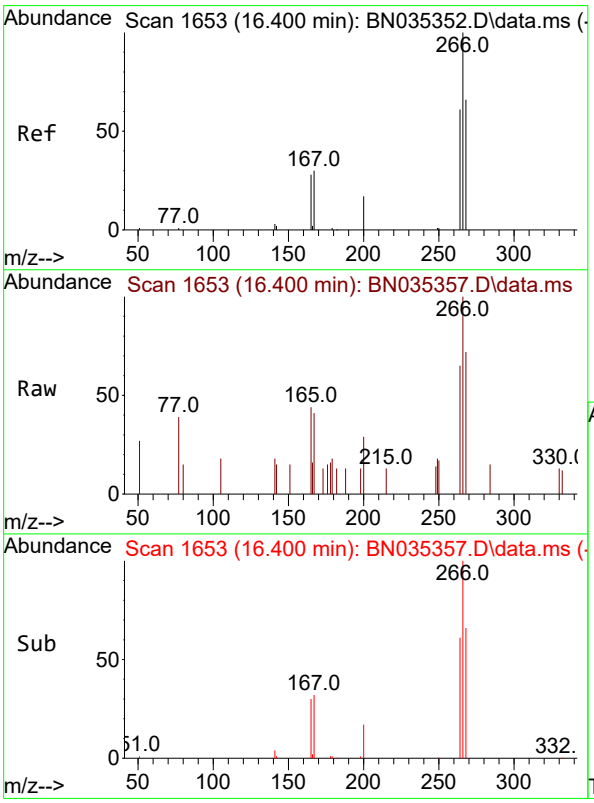
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 1227

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3

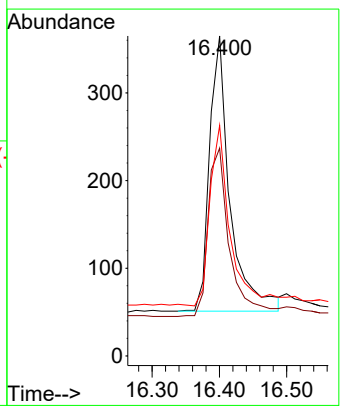


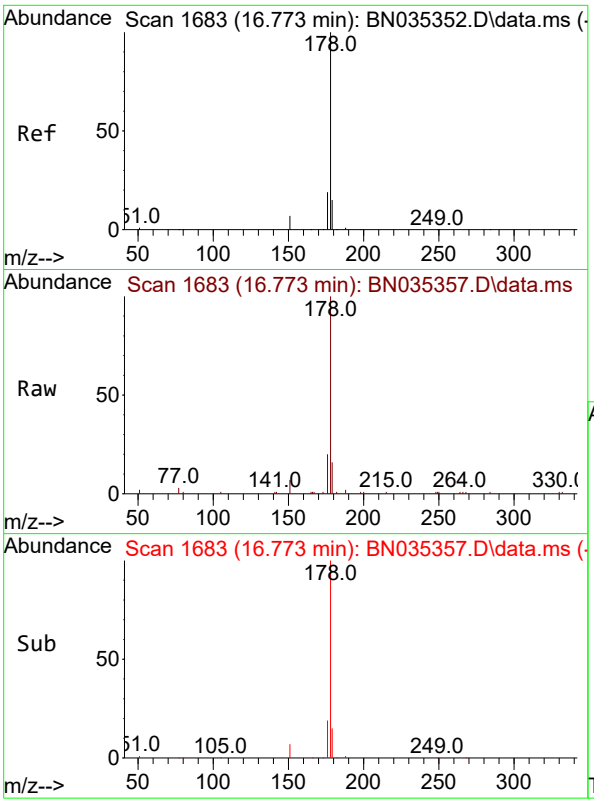


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#



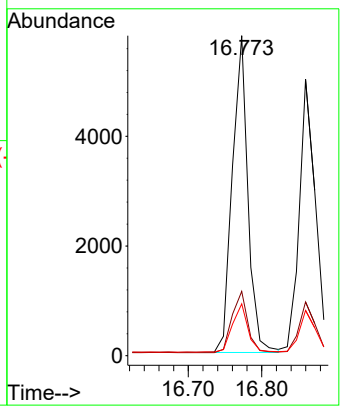


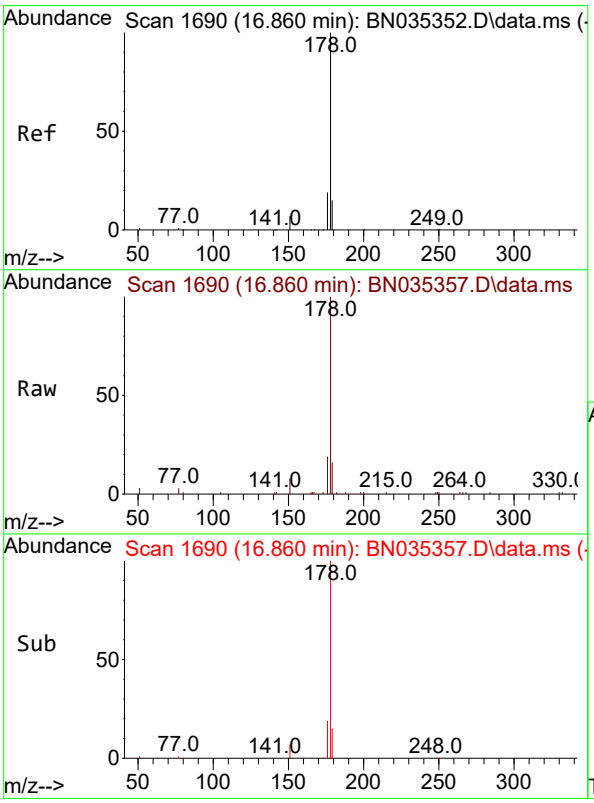
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:178 Resp: 8509

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5

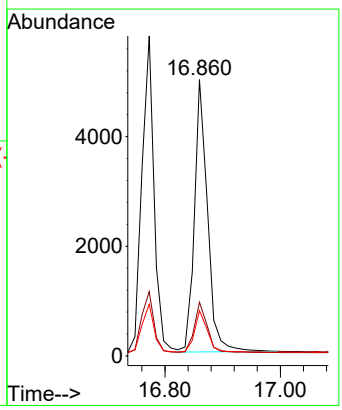


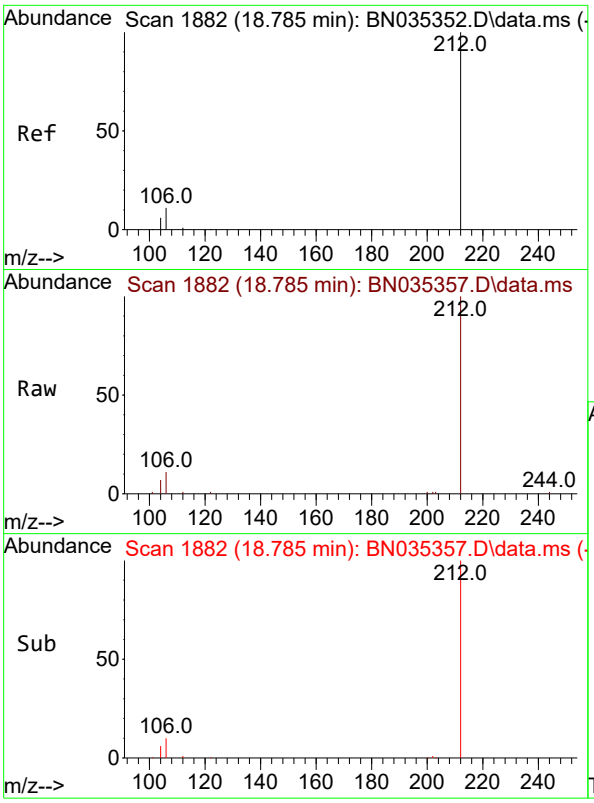


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



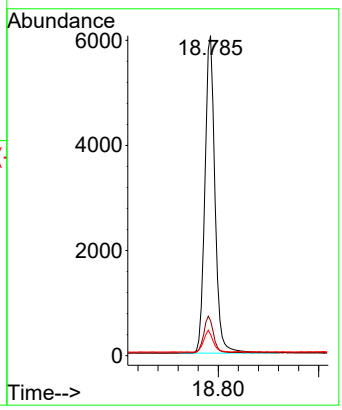


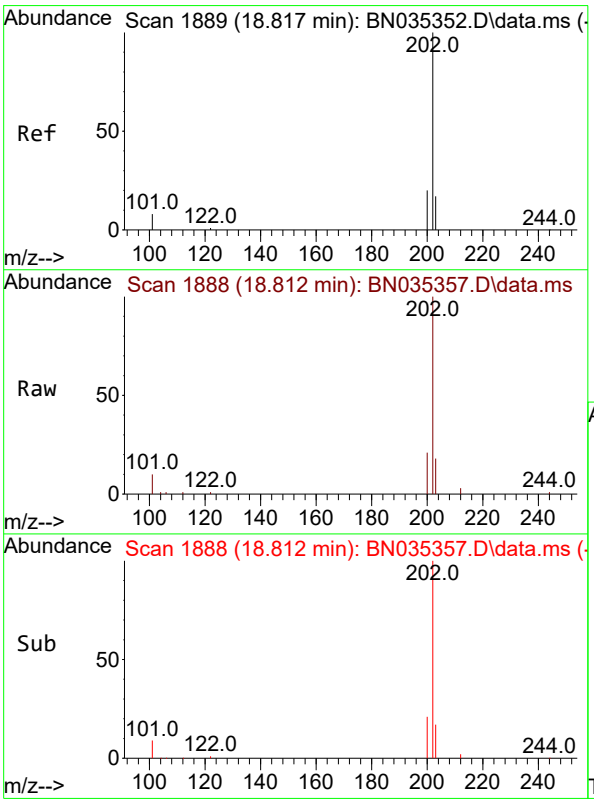
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 8415

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

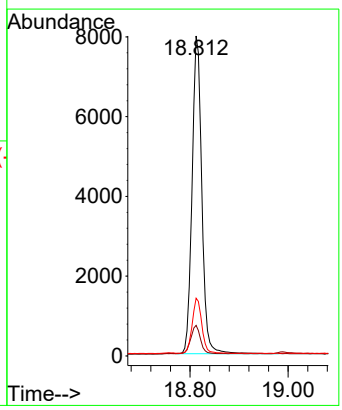


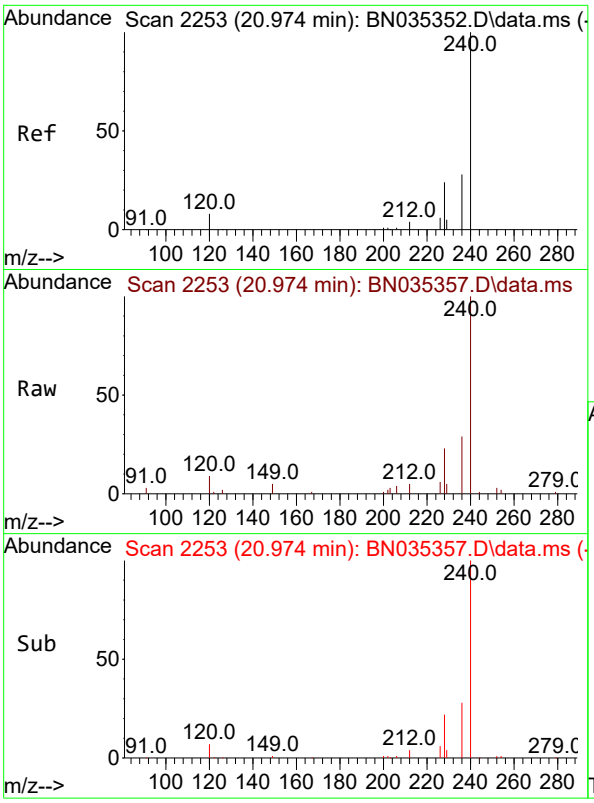


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



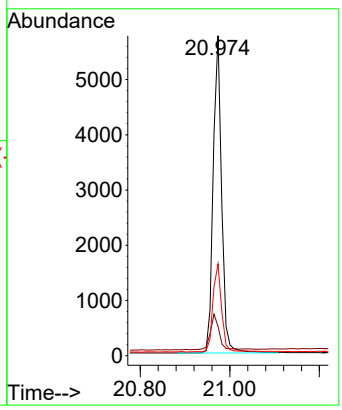


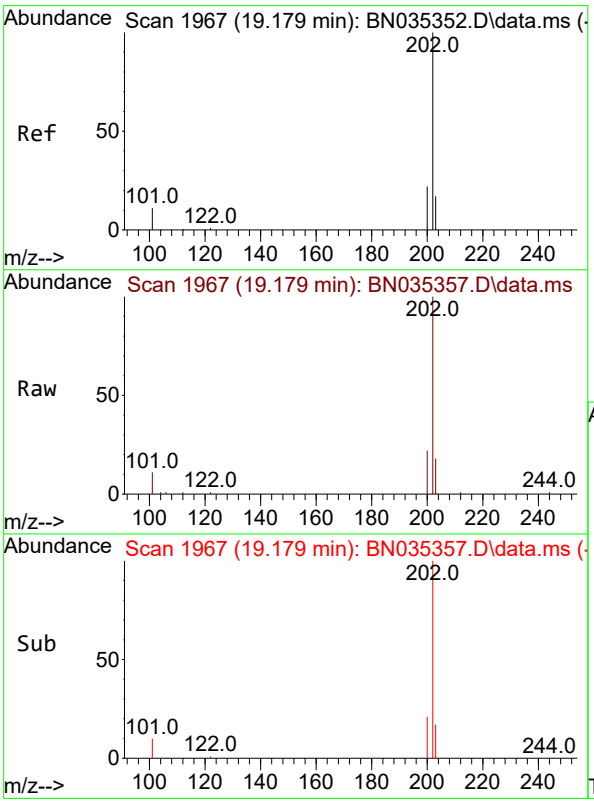
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:240 Resp: 7576

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

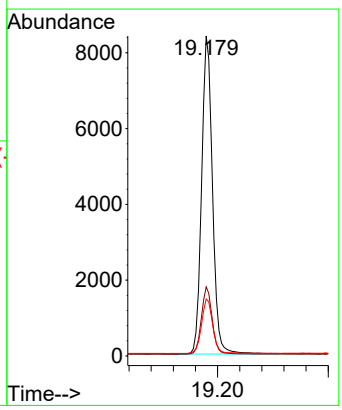


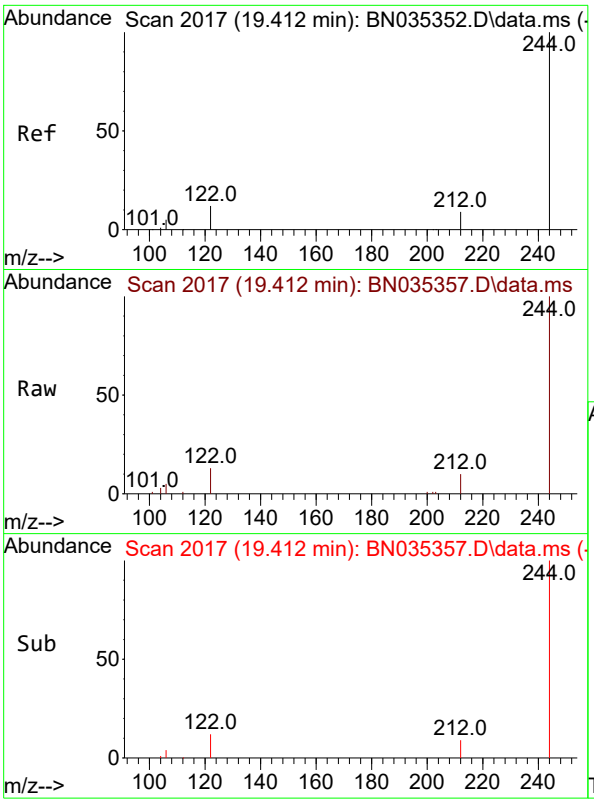


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



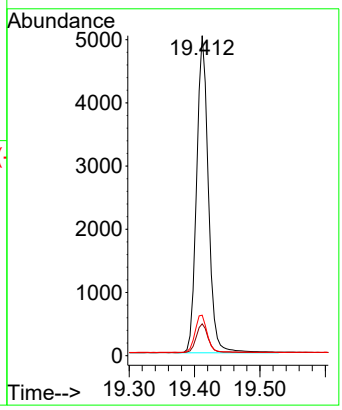


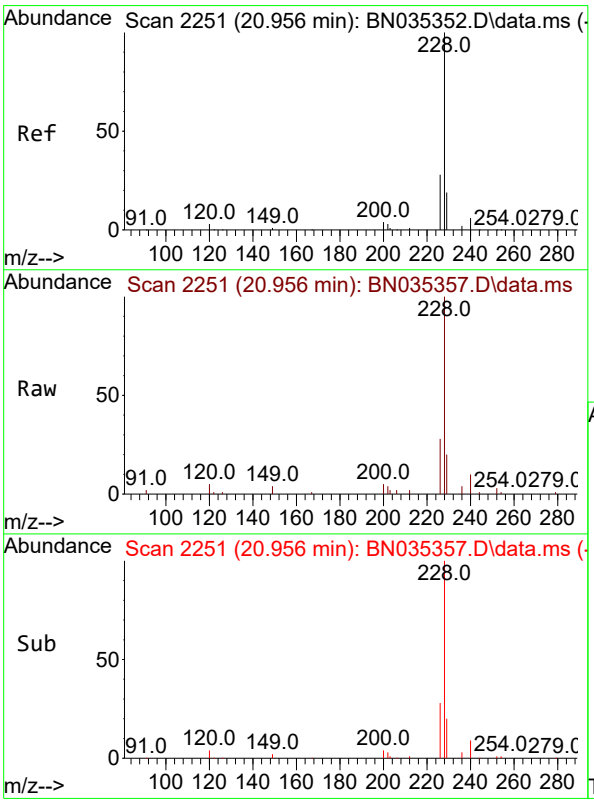
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:244 Resp: 6272

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

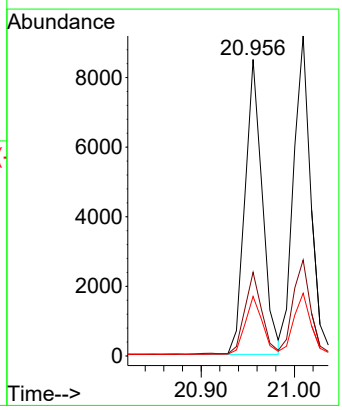


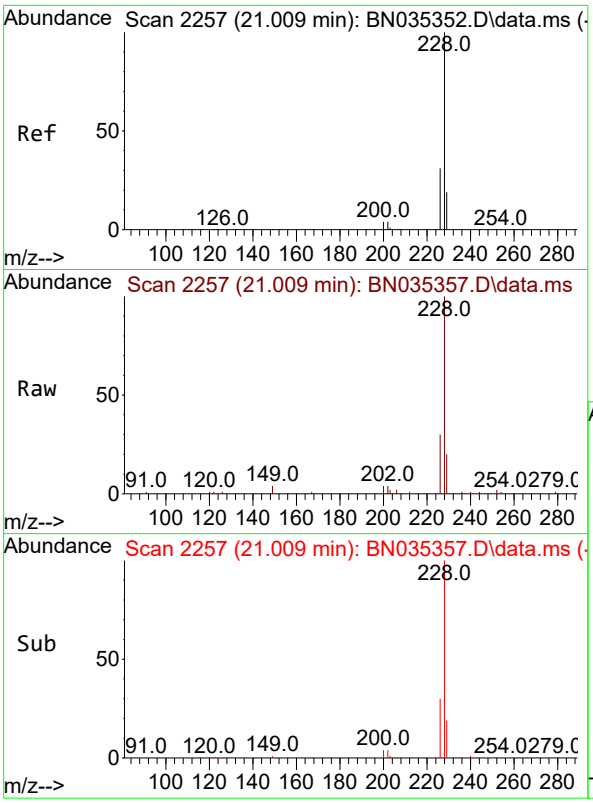


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8



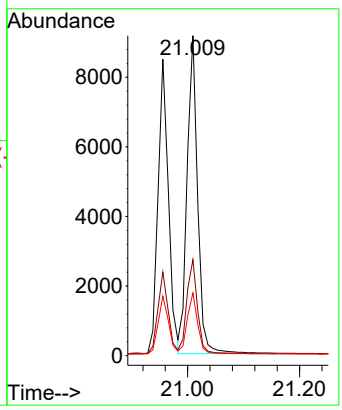


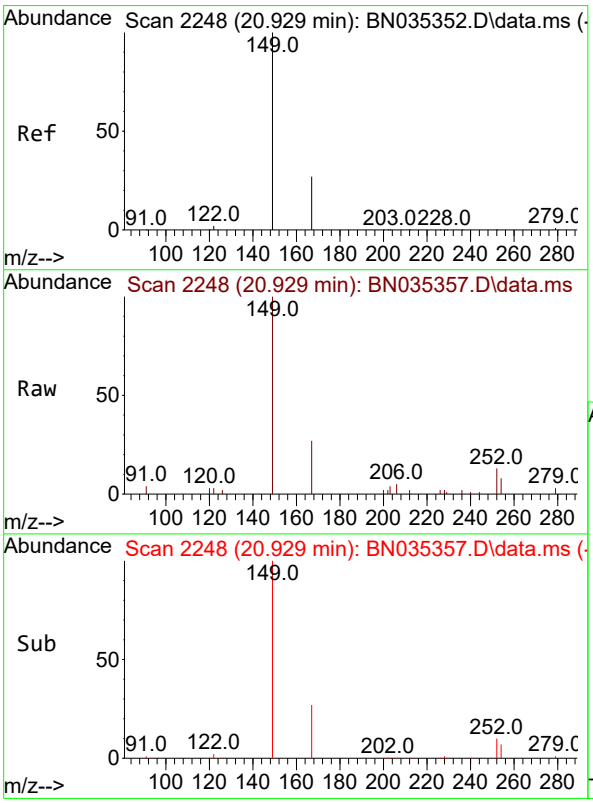
#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:228 Resp: 11926

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

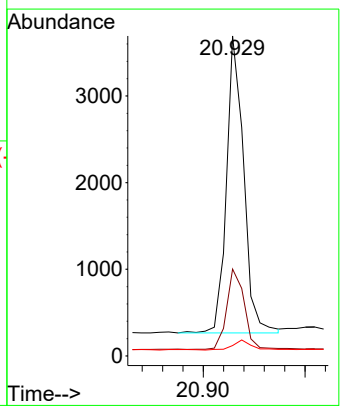


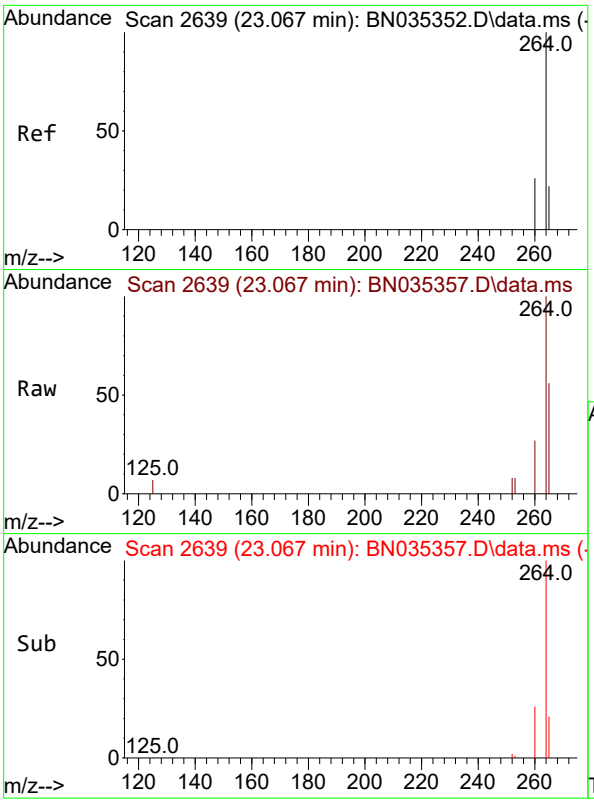


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1



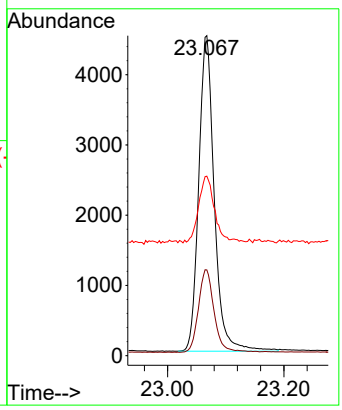


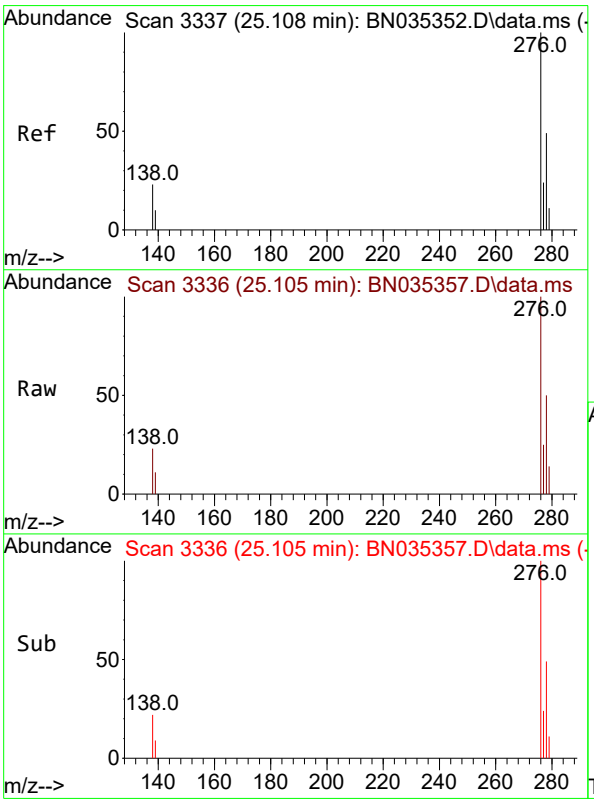
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

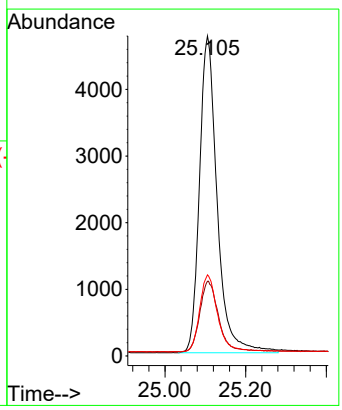


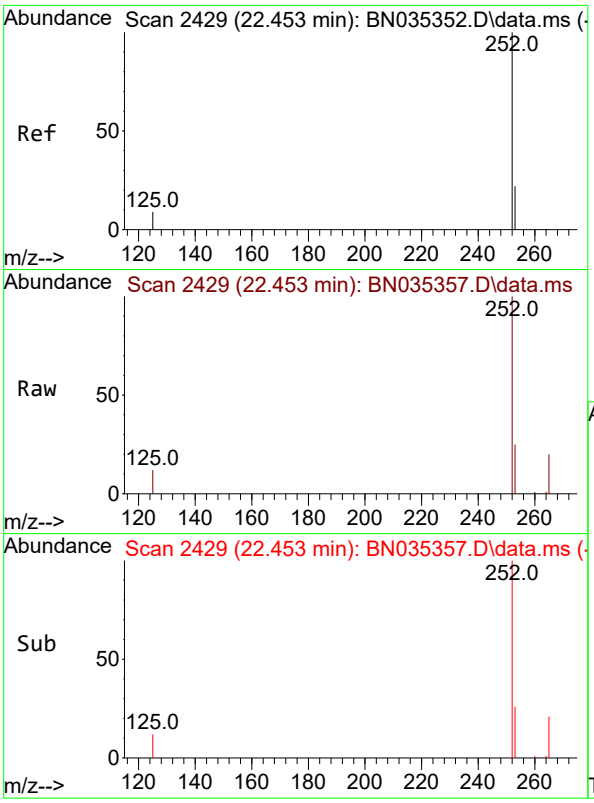


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6



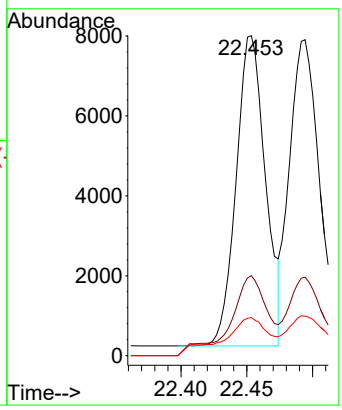


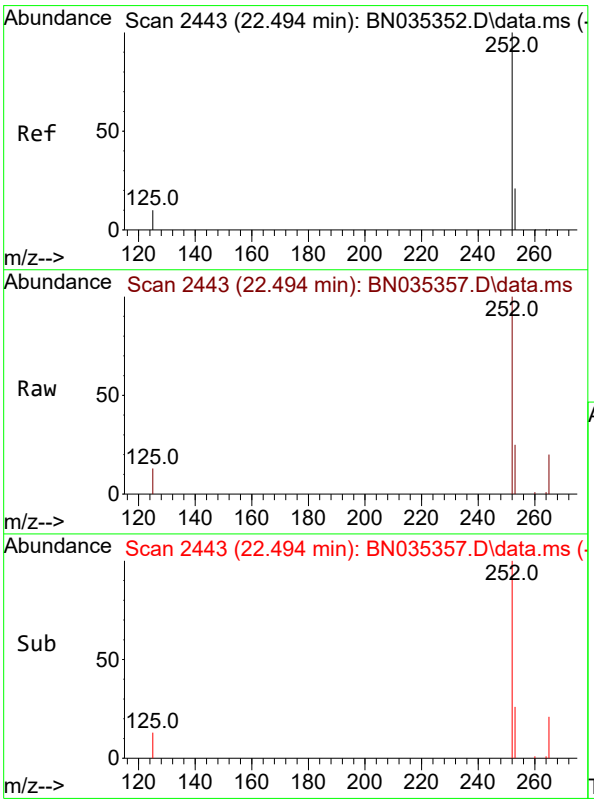
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 12988

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

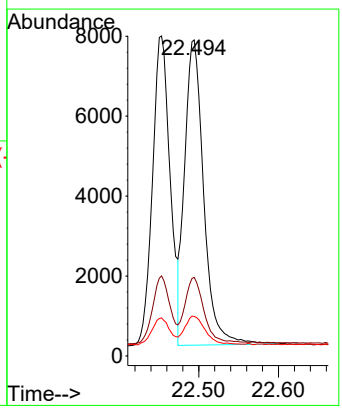


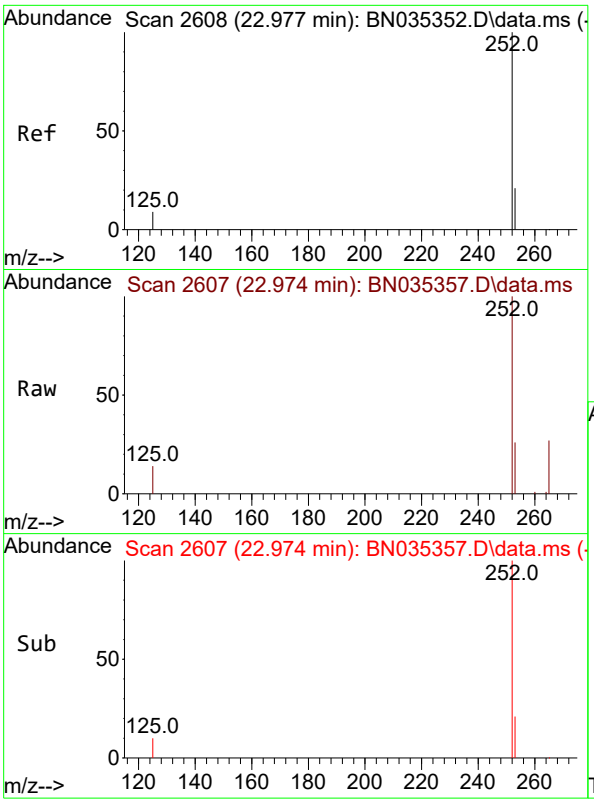


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4



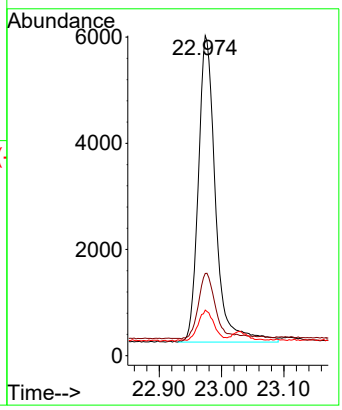


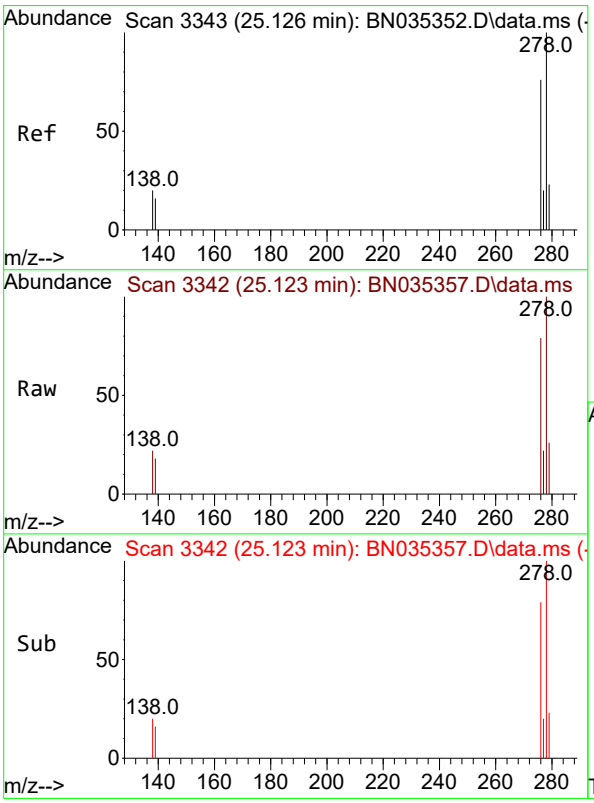
#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 11094

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

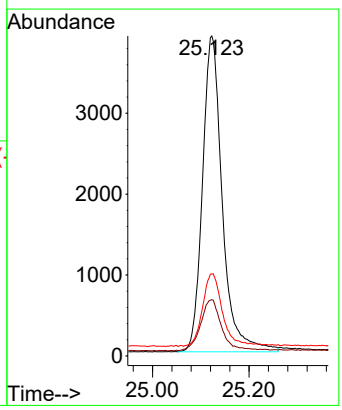


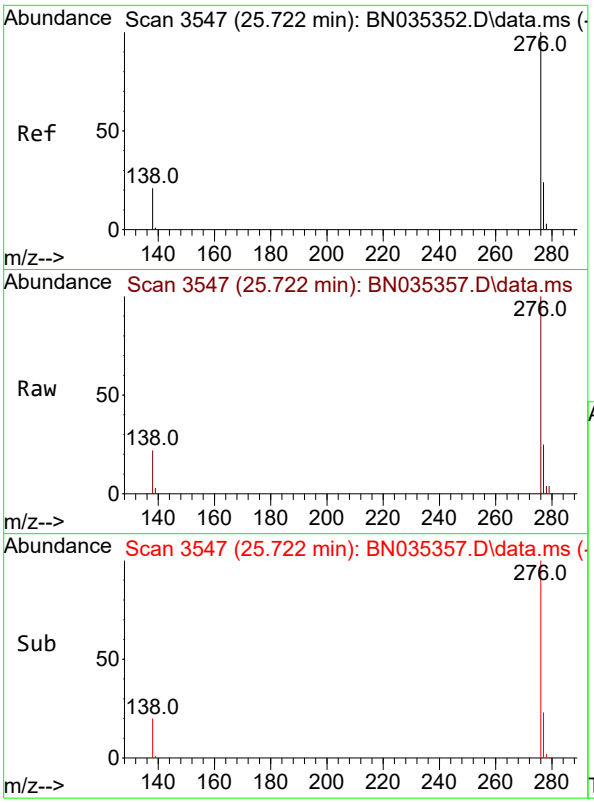


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7



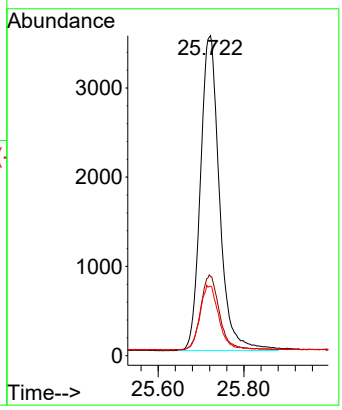


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:276 Resp: 10870

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

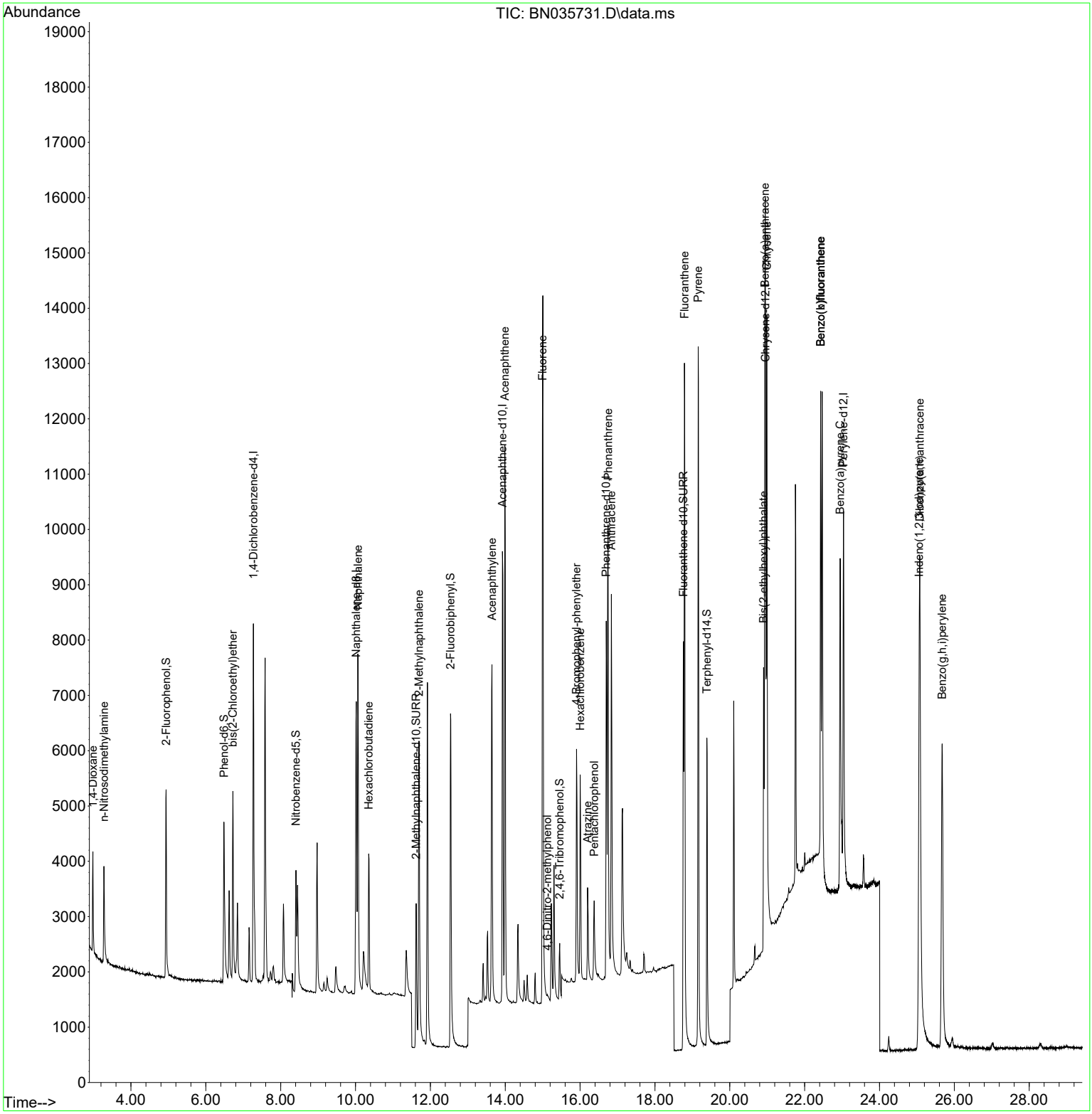
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.271	152	3239	0.400	ng		0.00
7) Naphthalene-d8	10.020	136	8431	0.400	ng		# 0.00
13) Acenaphthene-d10	13.924	164	5341	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10575	0.400	ng		# 0.00
29) Chrysene-d12	20.956	240	8878	0.400	ng		0.00
35) Perylene-d12	23.038	264	9229	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.939	112	3206	0.396	ng		0.00
5) Phenol-d6	6.484	99	3691	0.379	ng		0.00
8) Nitrobenzene-d5	8.408	82	2692	0.523	ng		0.00
11) 2-Methylnaphthalene-d10	11.621	152	4741	0.359	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	1180	0.311	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	7347	0.364	ng		0.00
27) Fluoranthene-d10	18.761	212	10416	0.347	ng		0.00
31) Terphenyl-d14	19.388	244	7453	0.426	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1312	0.424	ng		96
3) n-Nitrosodimethylamine	3.278	42	1070	0.415	ng	#	94
6) bis(2-Chloroethyl)ether	6.723	93	2987	0.365	ng		100
9) Naphthalene	10.062	128	8331	0.375	ng		100
10) Hexachlorobutadiene	10.351	225	2194	0.428	ng	#	99
12) 2-Methylnaphthalene	11.697	142	5286	0.332	ng		100
16) Acenaphthylene	13.646	152	7931	0.354	ng		100
17) Acenaphthene	13.989	154	5347	0.359	ng		99
18) Fluorene	14.993	166	7004	0.329	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	83	0.080	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2216	0.358	ng	#	71
22) Hexachlorobenzene	16.003	284	3183	0.438	ng		97
23) Atrazine	16.202	200	1696	0.385	ng		98
24) Pentachlorophenol	16.375	266	1107	0.350	ng	#	83
25) Phenanthrene	16.748	178	10192	0.351	ng		100
26) Anthracene	16.835	178	9082	0.346	ng		99
28) Fluoranthene	18.789	202	12678	0.324	ng		99
30) Pyrene	19.156	202	13069	0.399	ng		100
32) Benzo(a)anthracene	20.938	228	10542	0.339	ng		100
33) Chrysene	20.991	228	12448	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5271	0.430	ng		99
36) Indeno(1,2,3-cd)pyrene	25.061	276	13578	0.376	ng		96
37) Benzo(b)fluoranthene	22.427	252	14777	0.438	ng		97
38) Benzo(k)fluoranthene	22.427	252	14777	0.445	ng		98
39) Benzo(a)pyrene	22.947	252	10146	0.365	ng	#	92
40) Dibenzo(a,h)anthracene	25.079	278	10523	0.370	ng		97
41) Benzo(g,h,i)perylene	25.672	276	11906	0.400	ng		98

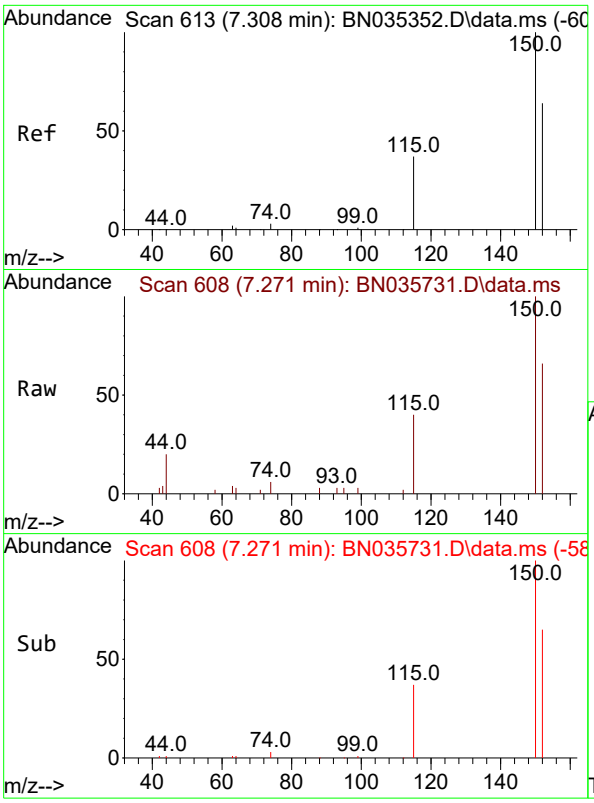
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



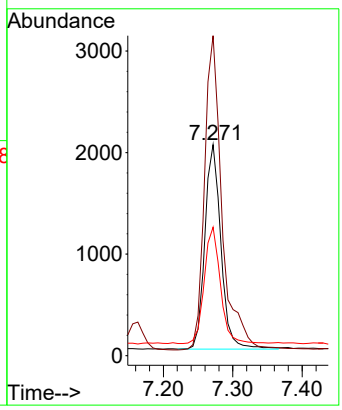


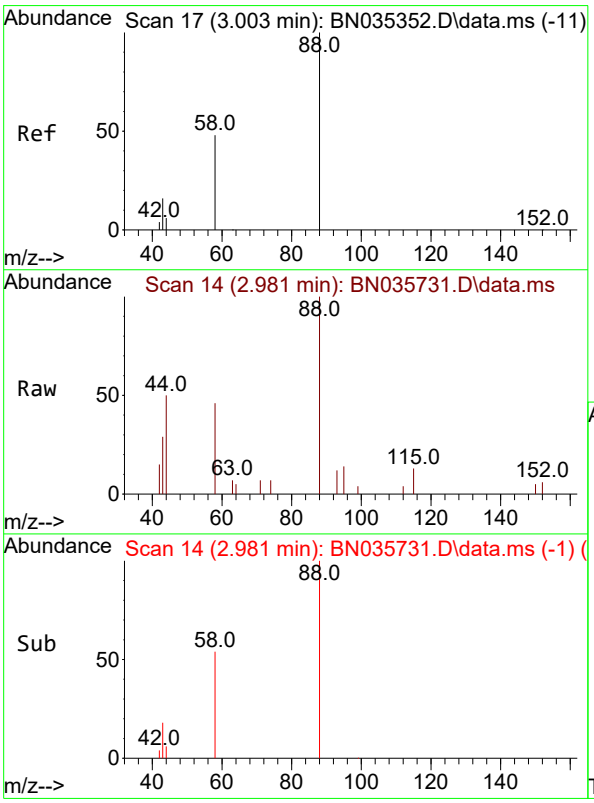
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3239

Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.0	186.0
115	60.9	49.6	74.4

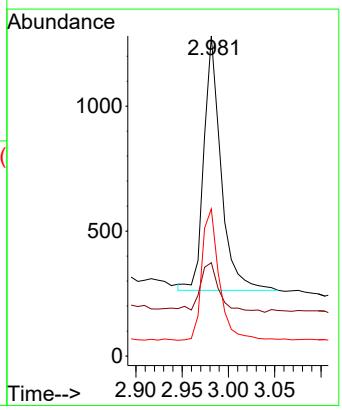


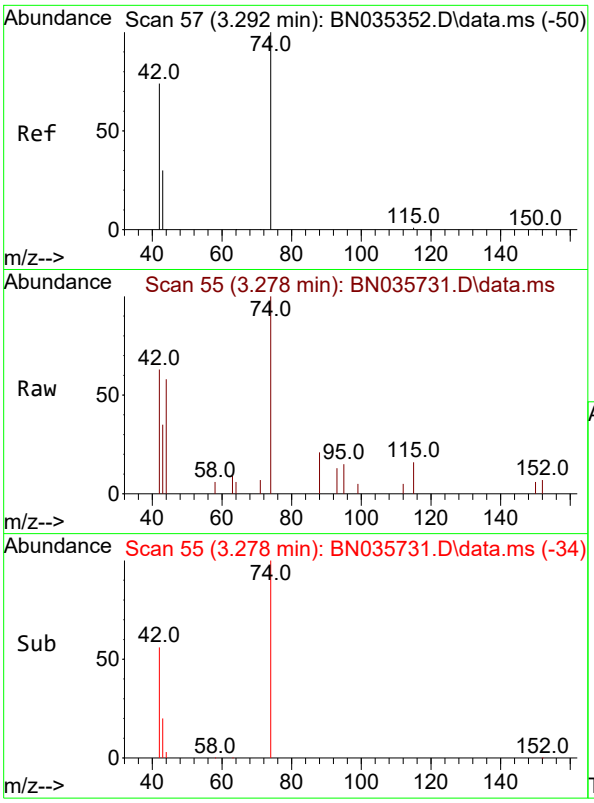


#2
1,4-Dioxane
Concen: 0.424 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 88 Resp: 1312

Ion	Ratio	Lower	Upper
88	100		
43	23.4	17.2	25.8
58	52.7	44.5	66.7



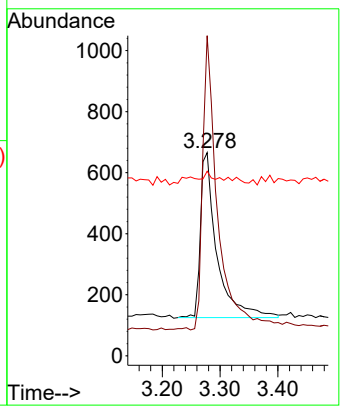


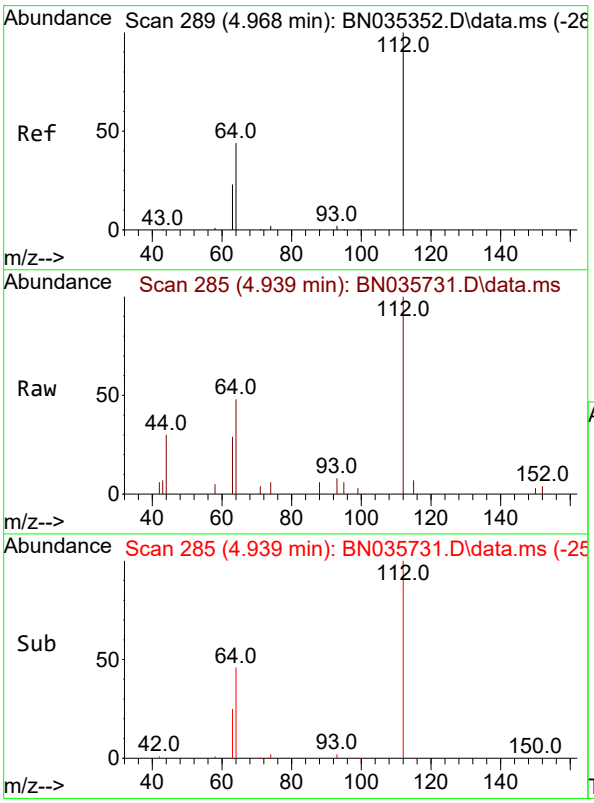
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1070

Ion	Ratio	Lower	Upper
42	100		
74	163.5	124.9	187.3
44	1.8	2.2	3.4#

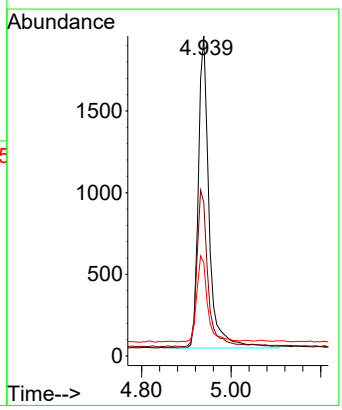


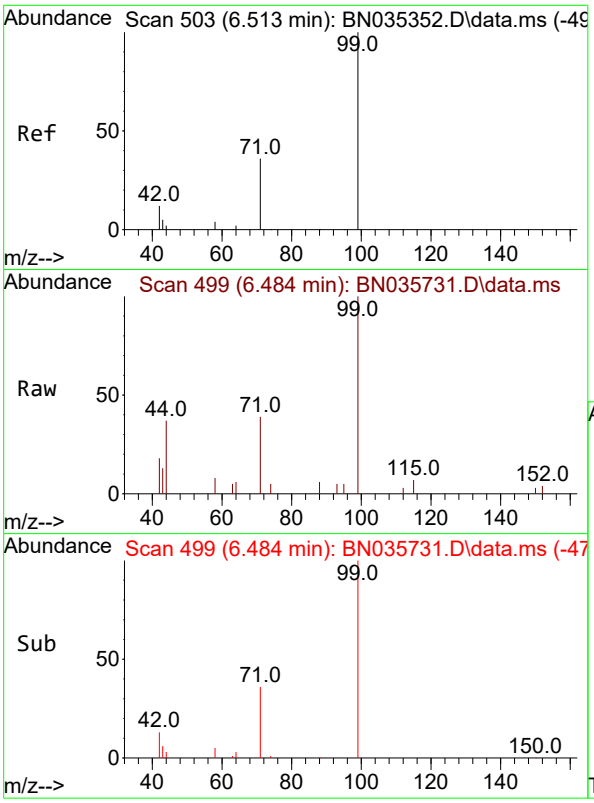


#4
2-Fluorophenol
Concen: 0.396 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:112 Resp: 3206

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.8	59.8
63	27.8	21.0	31.6



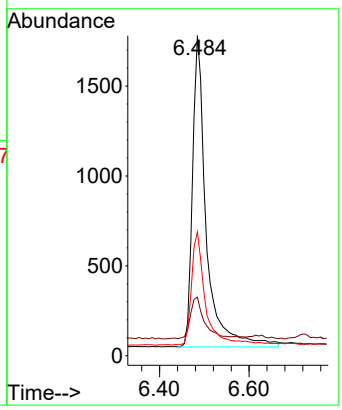


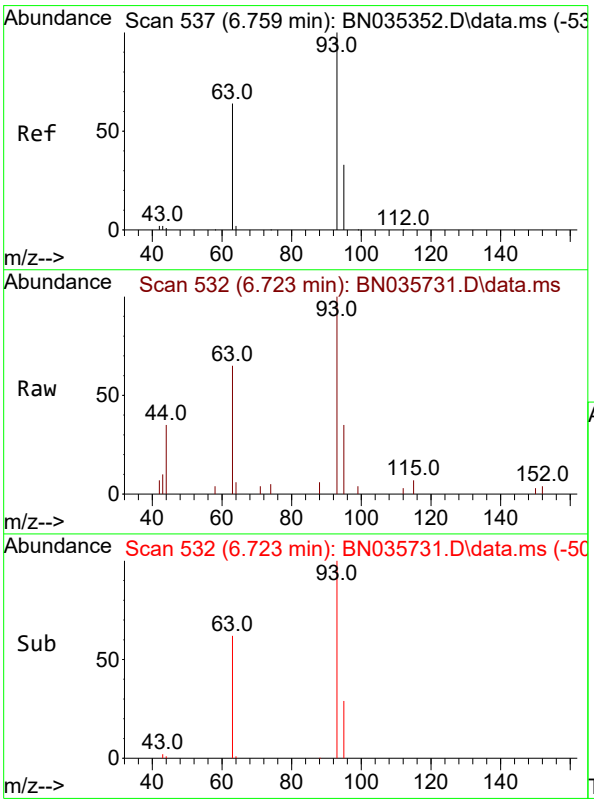
#5
Phenol-d6
Concen: 0.379 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3691

Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	36.7	29.3	43.9

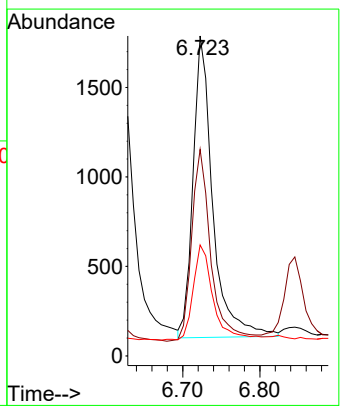


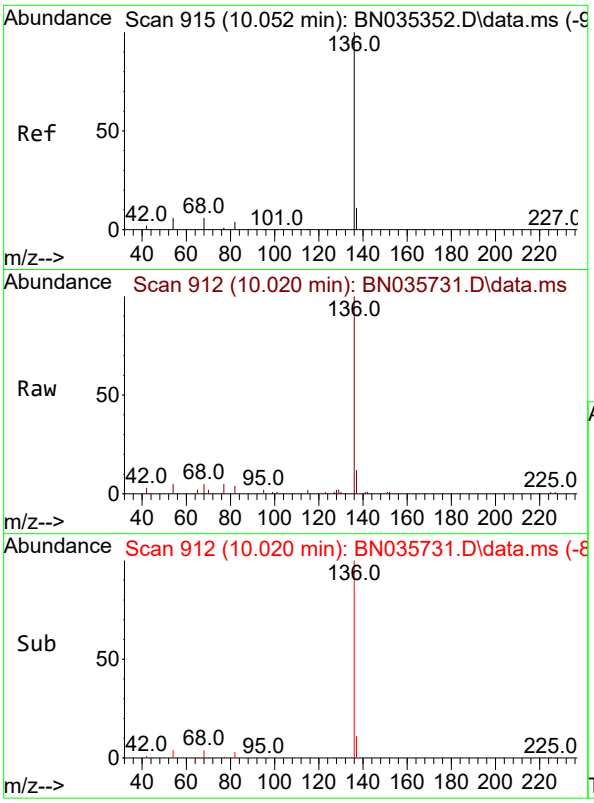


#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 93 Resp: 2987

Ion	Ratio	Lower	Upper
93	100		
63	62.5	50.4	75.6
95	32.2	25.7	38.5



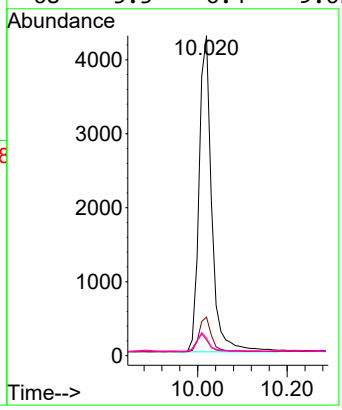


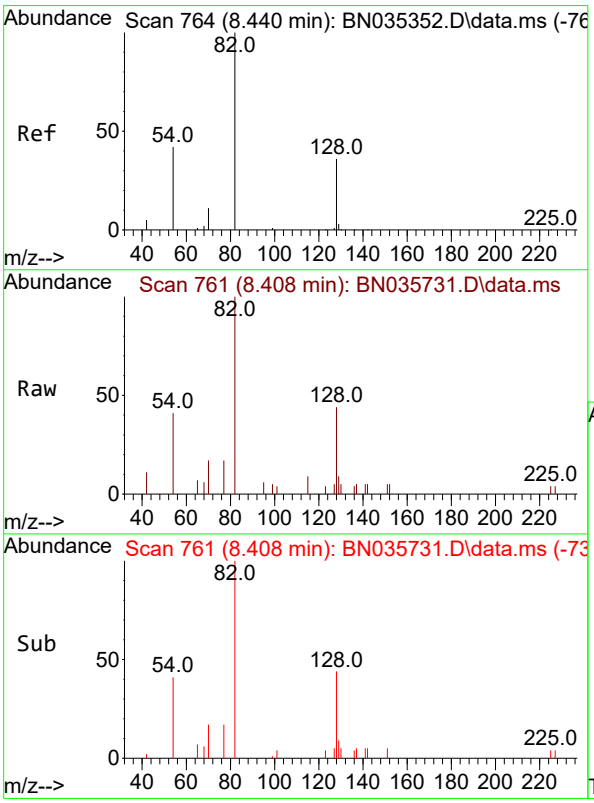
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 8431

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	5.0	6.1	9.1#
68	5.5	6.4	9.6#

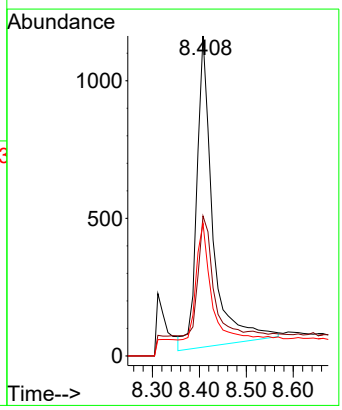


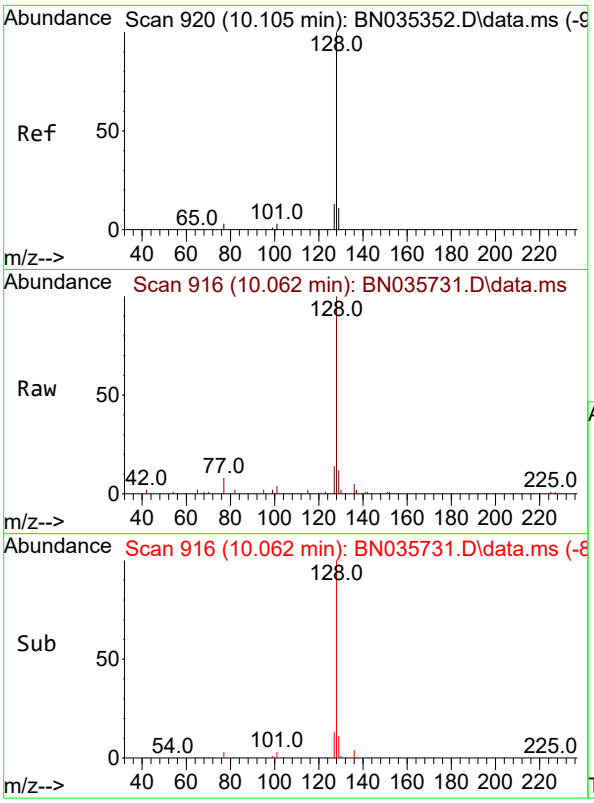


#8
Nitrobenzene-d5
Concen: 0.523 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 82 Resp: 2692

Ion	Ratio	Lower	Upper
82	100		
128	43.8	33.4	50.0
54	41.4	36.7	55.1



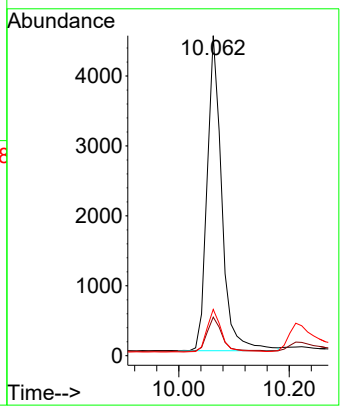


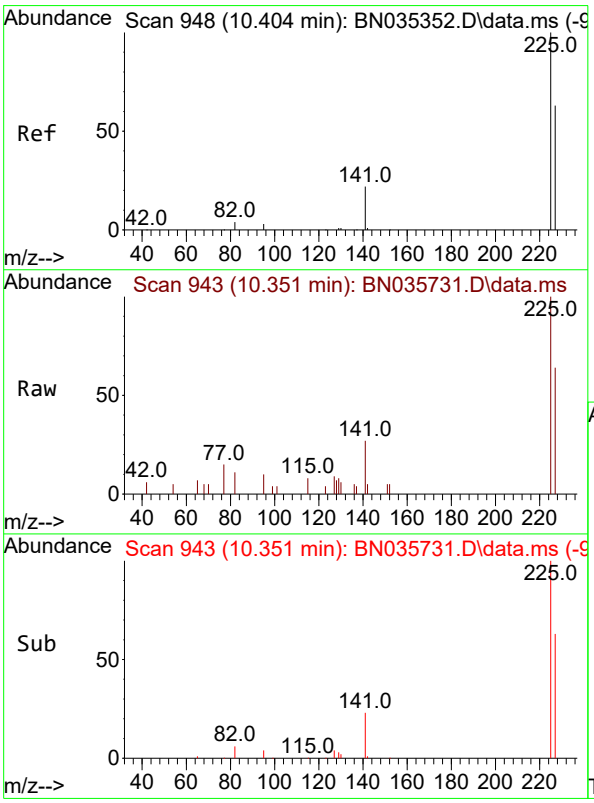
#9
Naphthalene
Concen: 0.375 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 8331

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.4	11.4	17.2

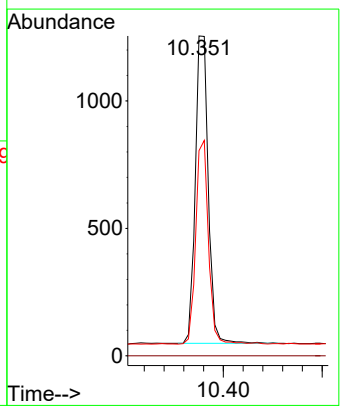


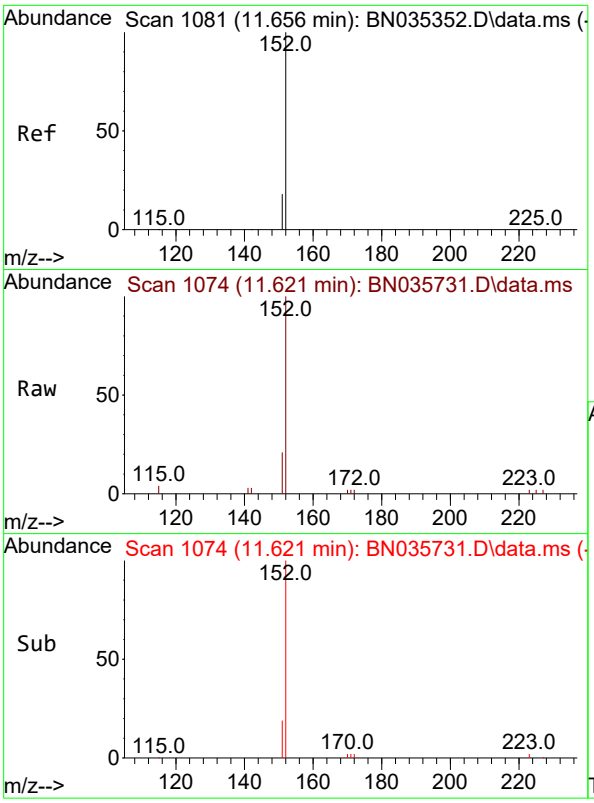


#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:225 Resp: 2194

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	51.3	76.9



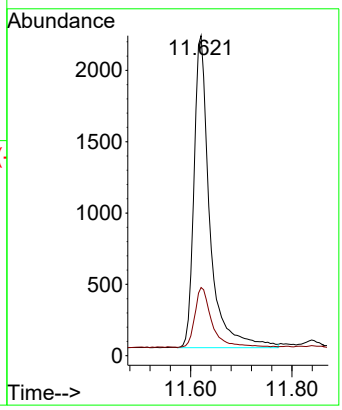


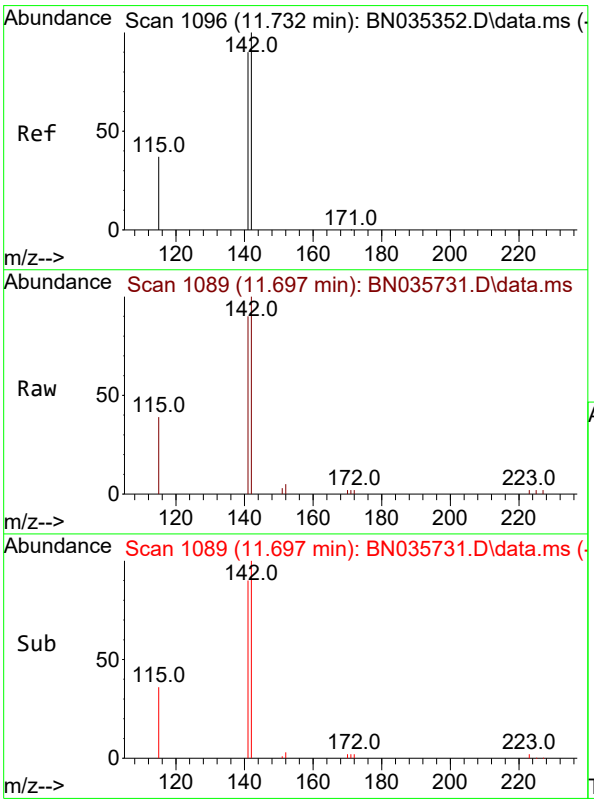
#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 11.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4741

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

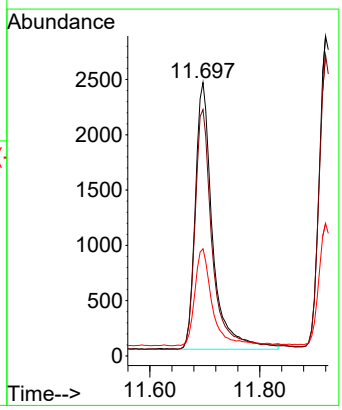


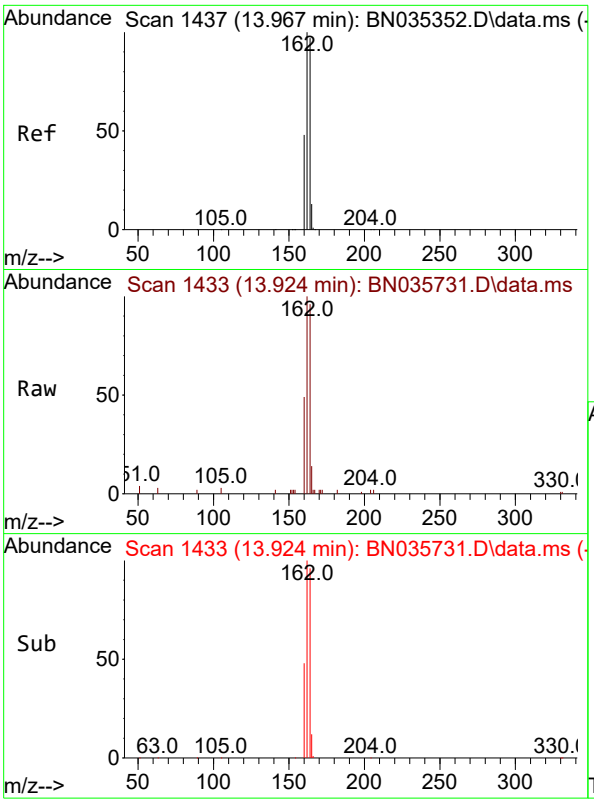


#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:142 Resp: 5286

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	39.2	31.4	47.0



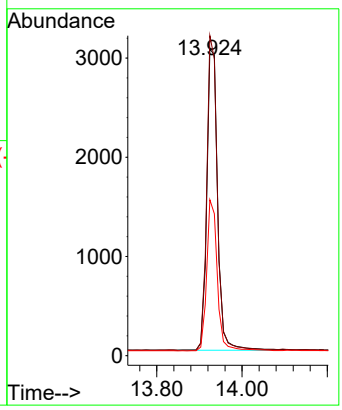


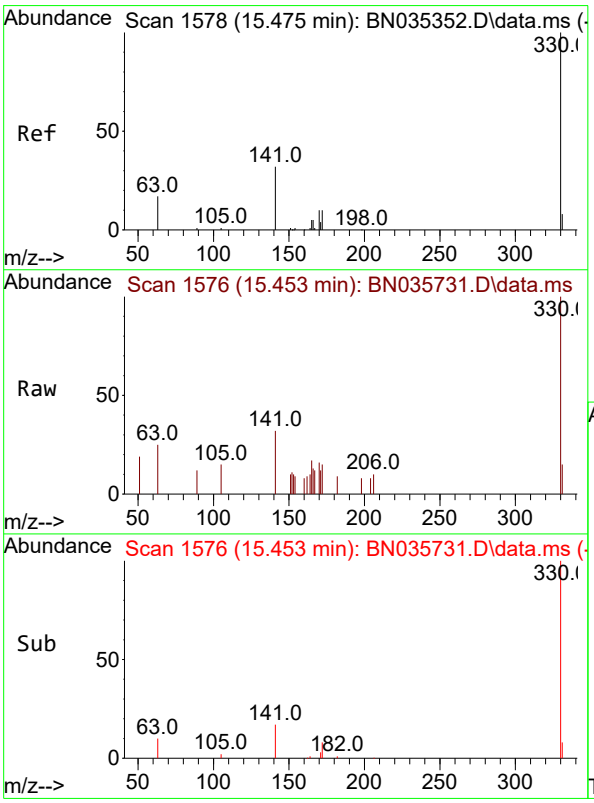
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5341

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	50.8	40.1	60.1

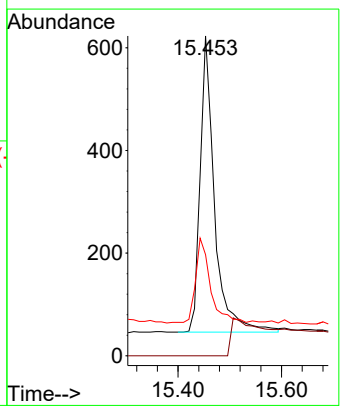


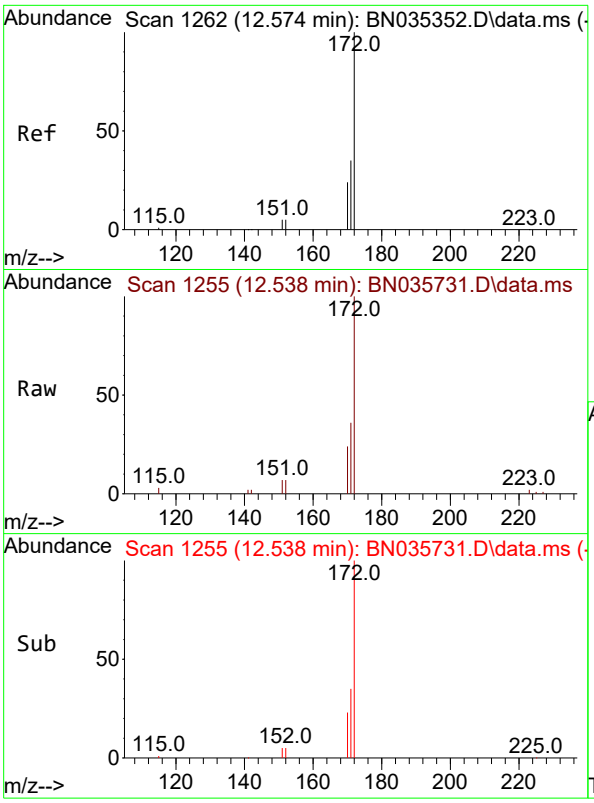


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:330 Resp: 1180

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.6	26.6	40.0



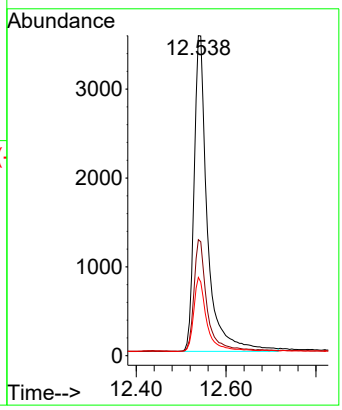


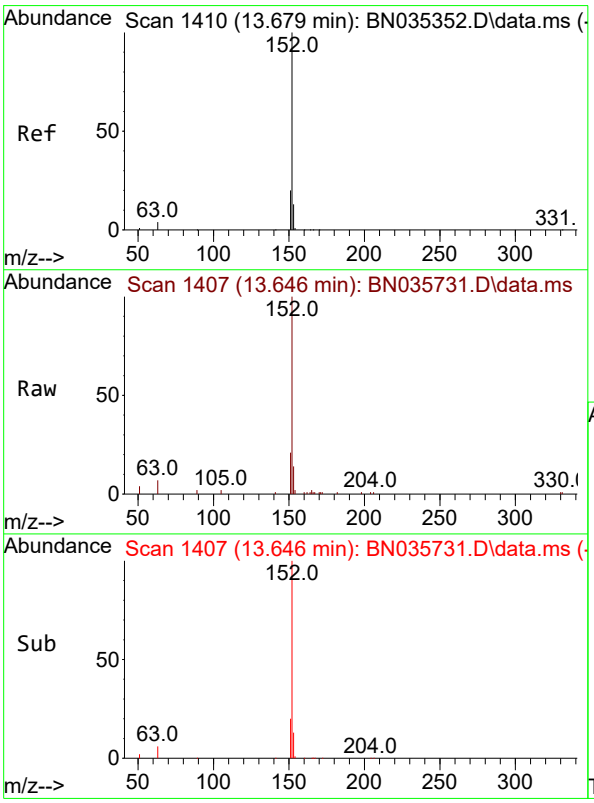
#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7347

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.5	19.8	29.8

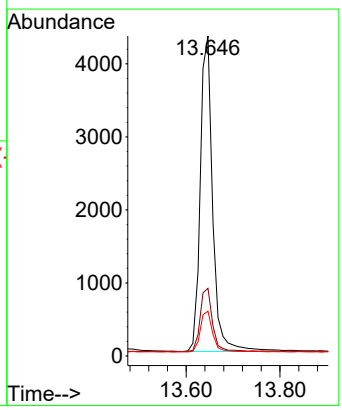


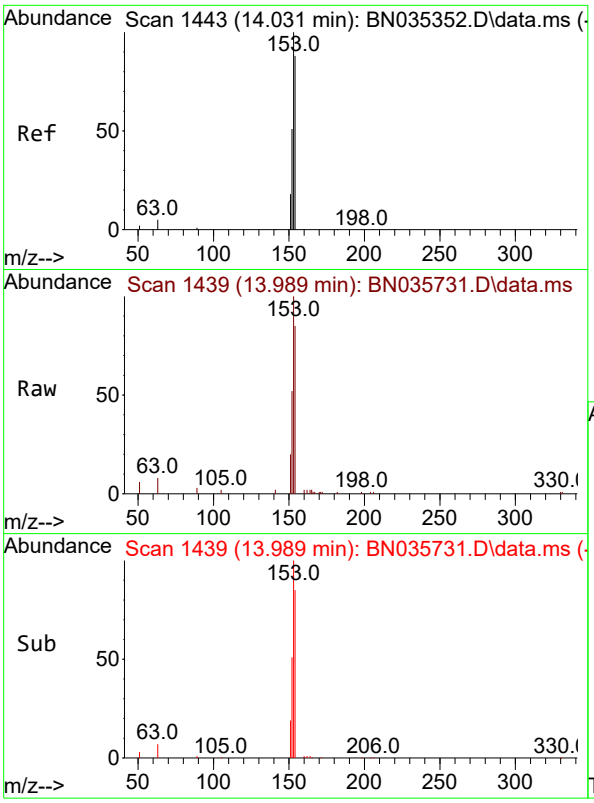


#16
Acenaphthylene
Concen: 0.354 ng
RT: 13.646 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:152 Resp: 7931

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.0	10.4	15.6



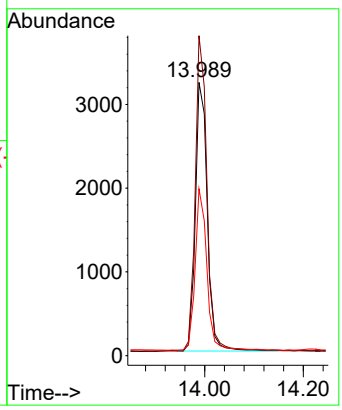


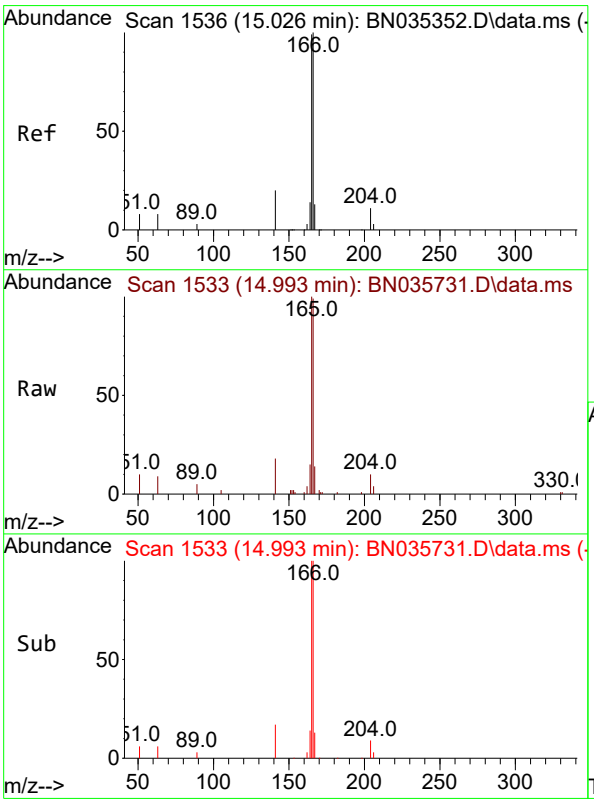
#17
Acenaphthene
Concen: 0.359 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5347

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	59.2	49.0	73.6

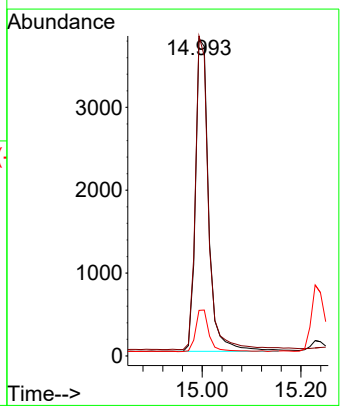


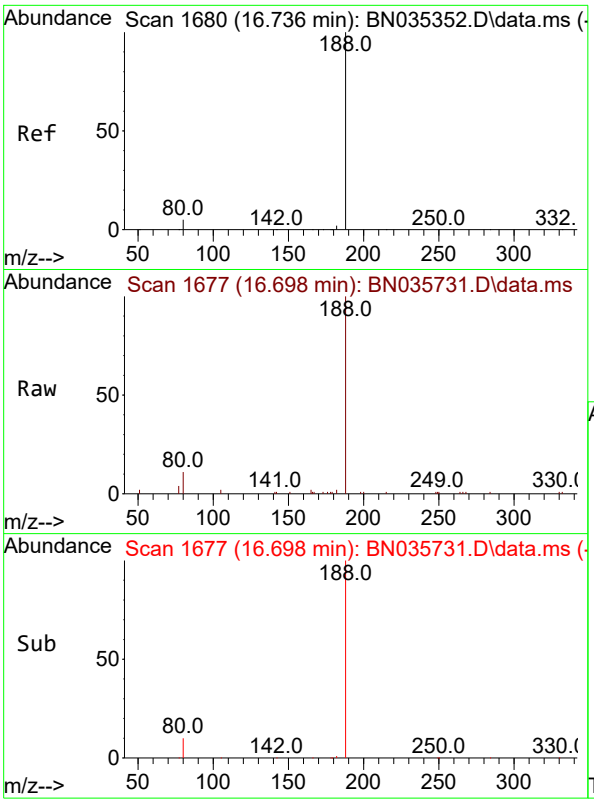


#18
Fluorene
Concen: 0.329 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:166 Resp: 7004

Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.7	119.5
167	13.7	10.8	16.2



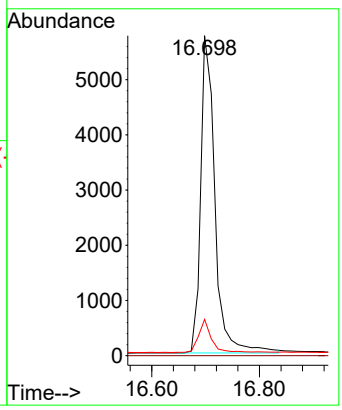


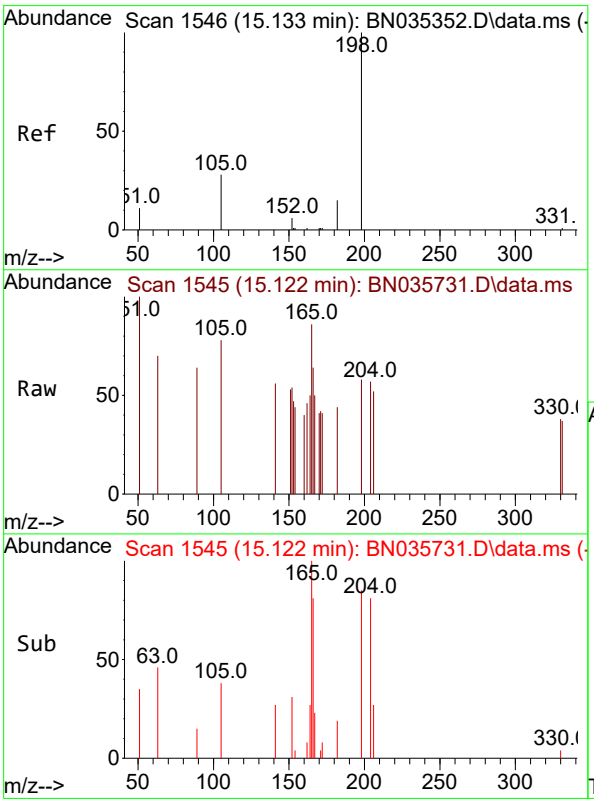
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 10575

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8#

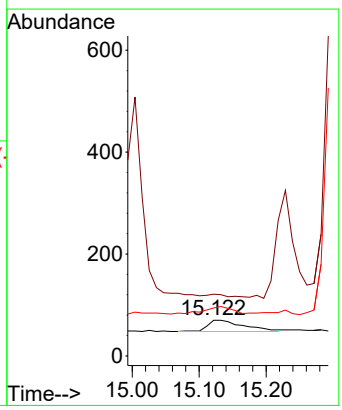


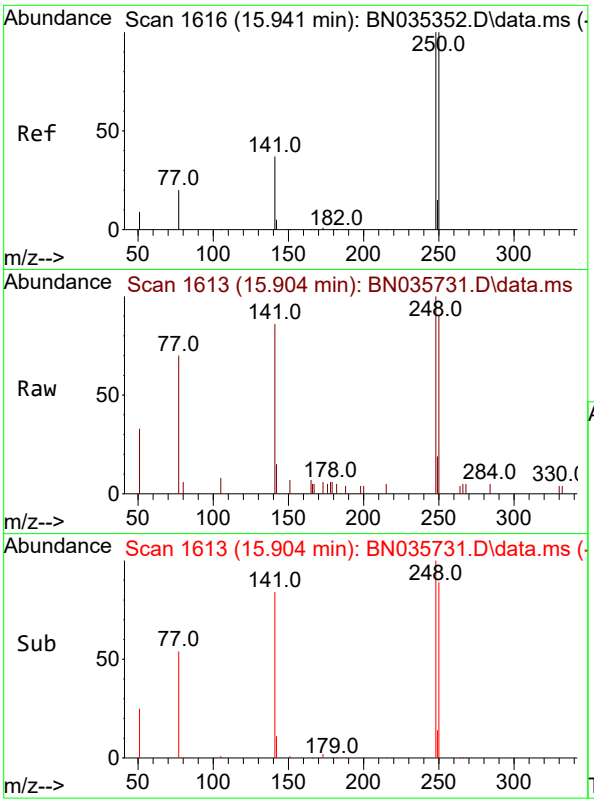


#20
4,6-Dinitro-2-methylphenol
Concen: 0.080 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:198 Resp: 83

Ion	Ratio	Lower	Upper
198	100		
51	172.9	46.5	69.7#
105	134.3	45.3	67.9#



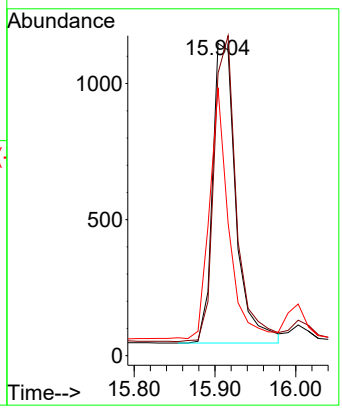


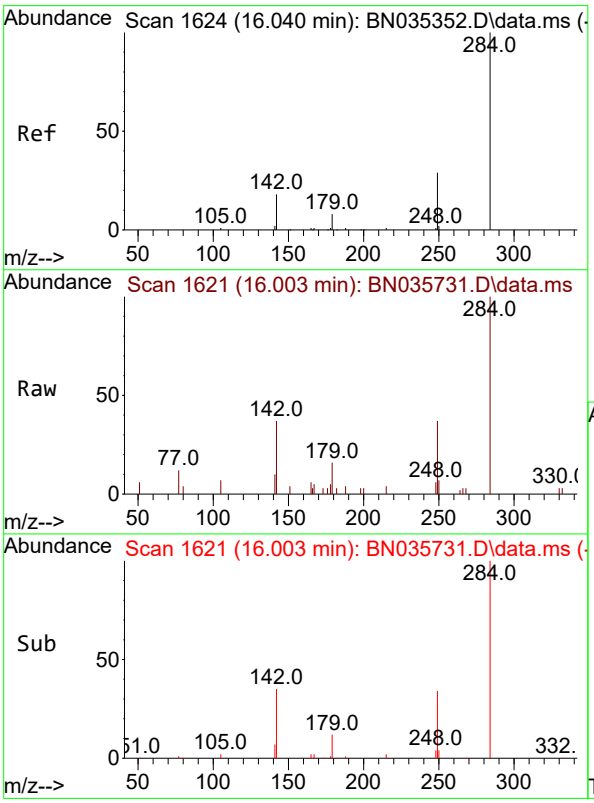
#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2216

Ion	Ratio	Lower	Upper
248	100		
250	90.4	80.6	120.8
141	85.8	31.5	47.3#

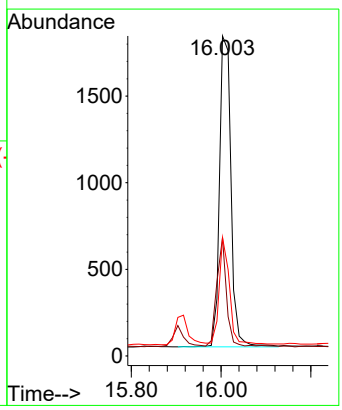


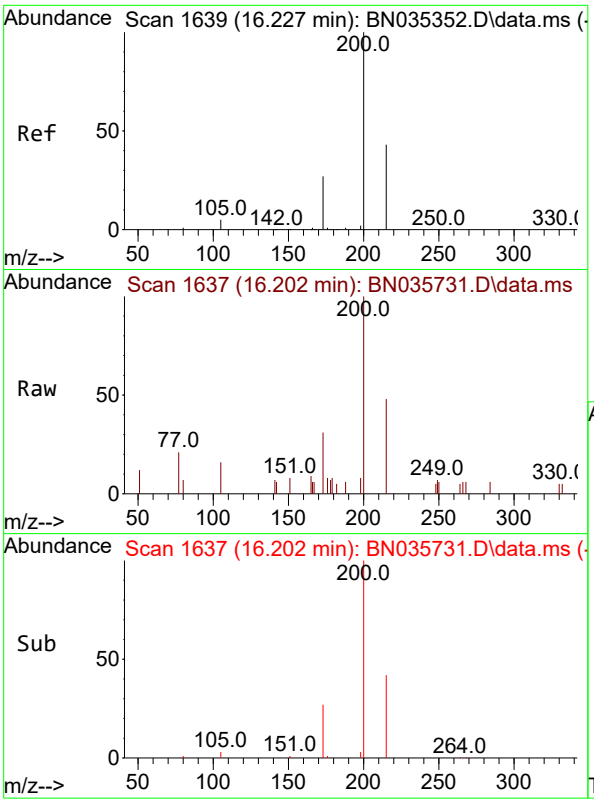


#22
Hexachlorobenzene
Concen: 0.438 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:284 Resp: 3183

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	30.4	24.6	36.8



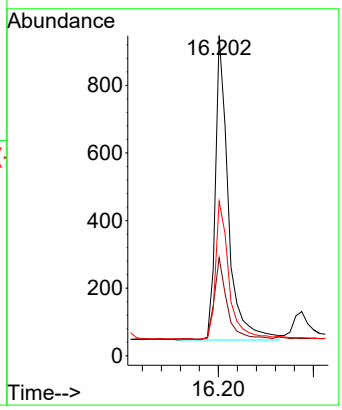


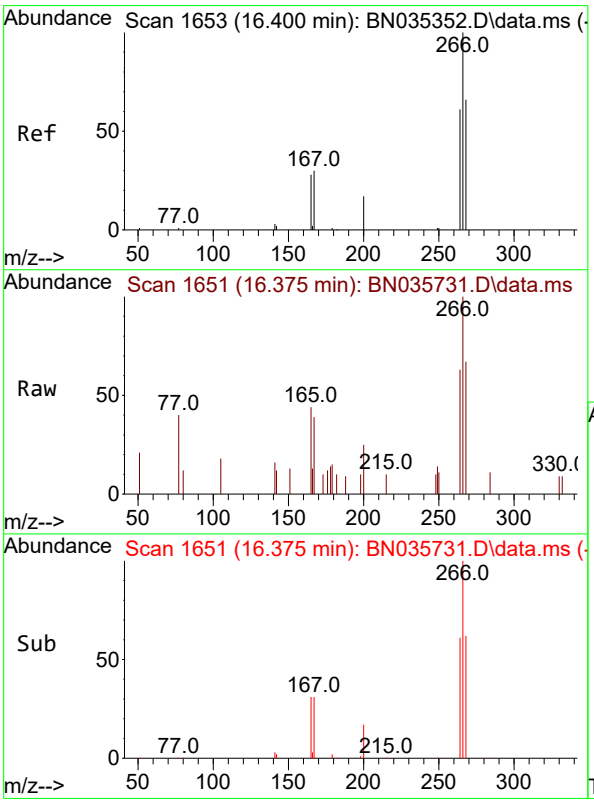
#23
Atrazine
Concen: 0.385 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1696

Ion	Ratio	Lower	Upper
200	100		
173	30.6	24.1	36.1
215	48.3	36.9	55.3

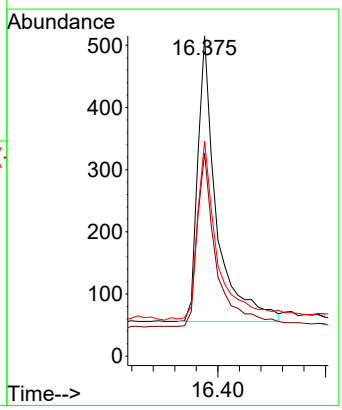


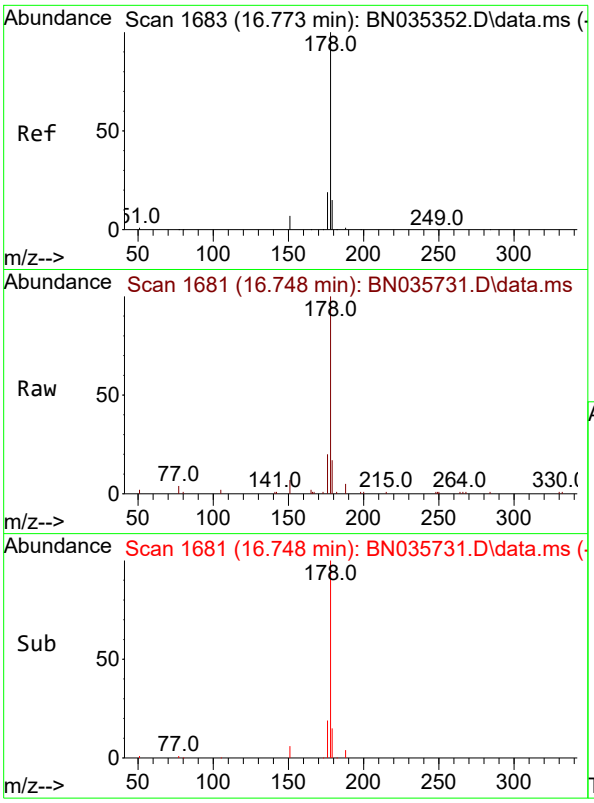


#24
Pentachlorophenol
Concen: 0.350 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:266 Resp: 1107

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	68.5	43.3	64.9#



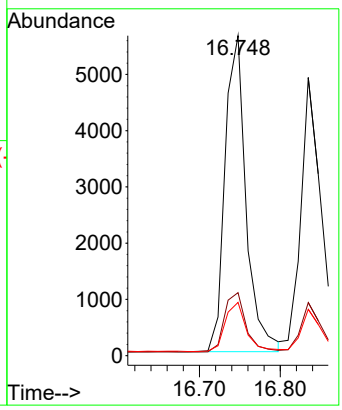


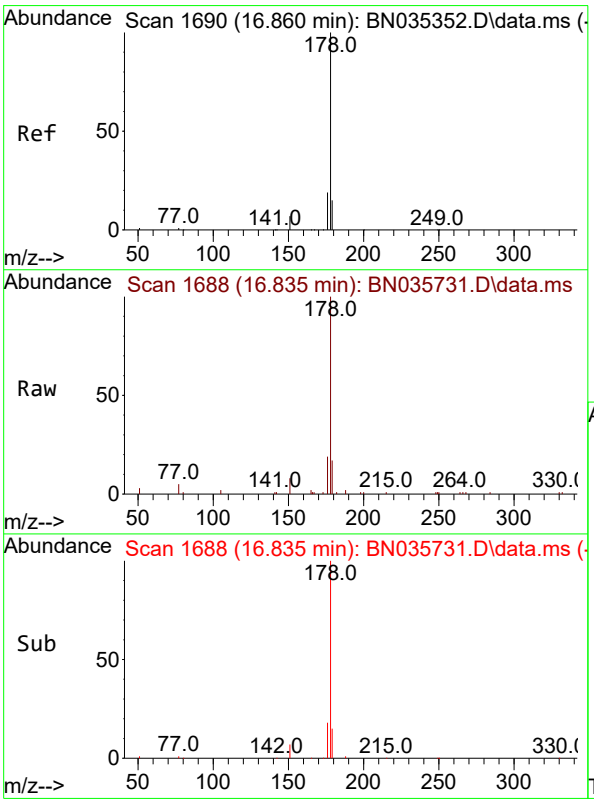
#25
Phenanthrene
Concen: 0.351 ng
RT: 16.748 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10192

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5

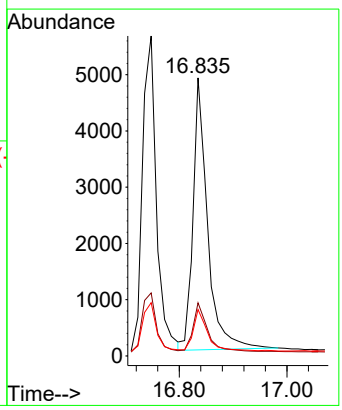


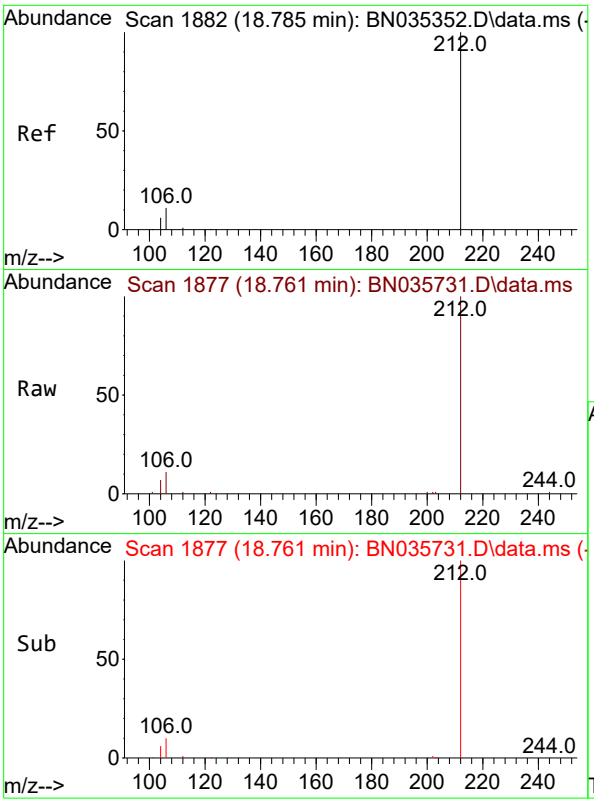


#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:178 Resp: 9082

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	15.6	12.6	18.8



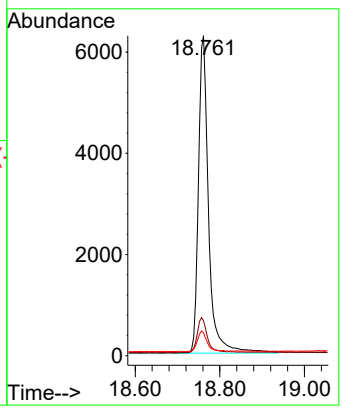


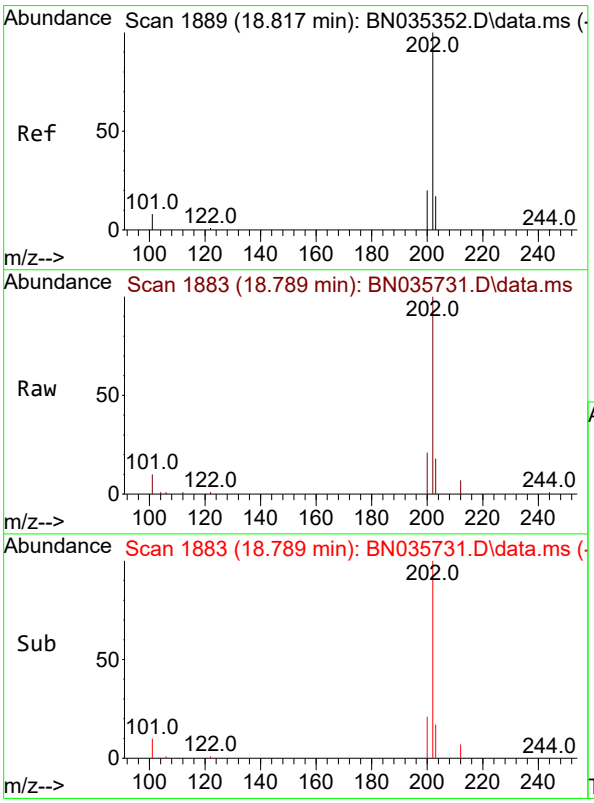
#27
Fluoranthene-d10
Concen: 0.347 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10416

Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.2	13.8
104	6.3	5.3	7.9

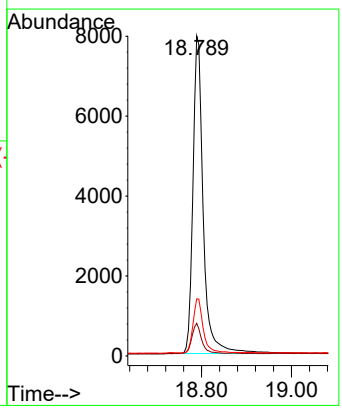


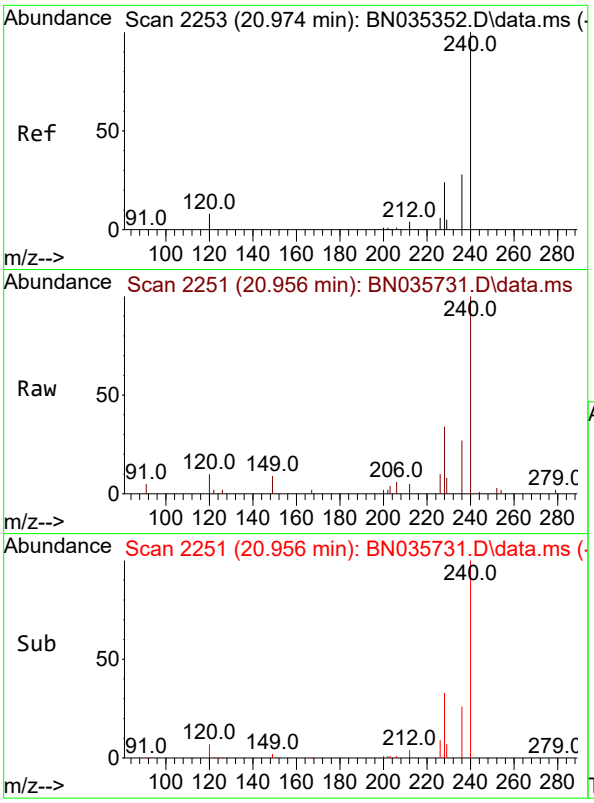


#28
Fluoranthene
Concen: 0.324 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 12678

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.4	11.0
203	16.7	13.7	20.5



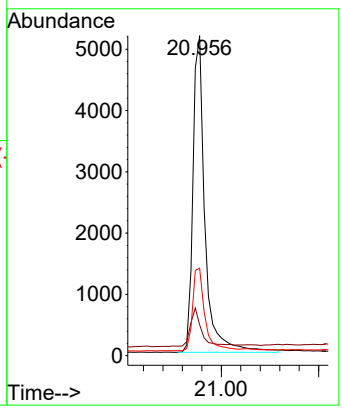


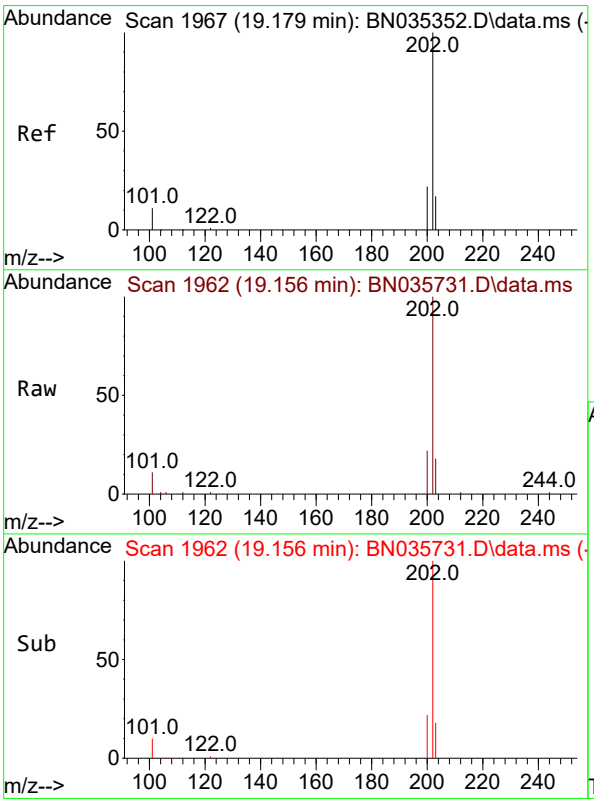
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8878

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	27.4	22.9	34.3

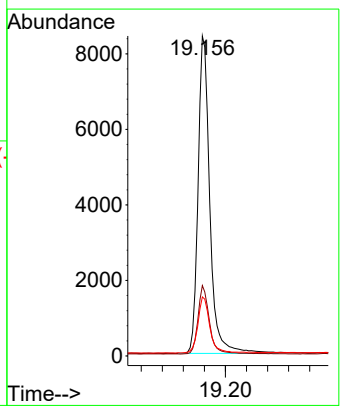


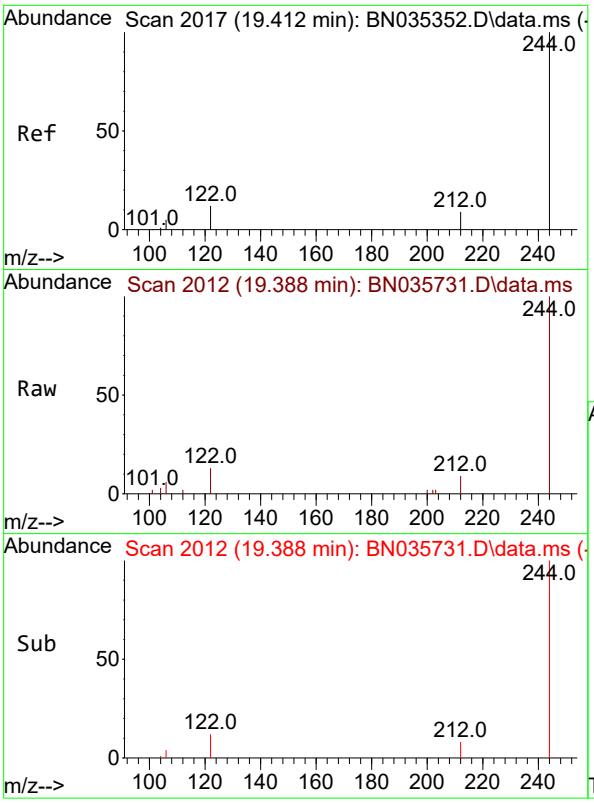


#30
Pyrene
Concen: 0.399 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 13069

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5



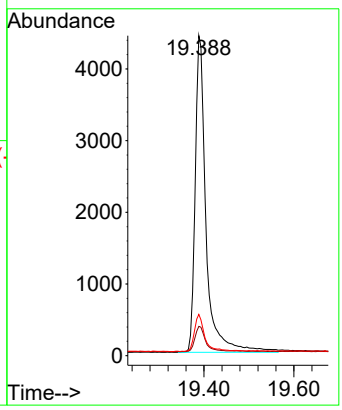


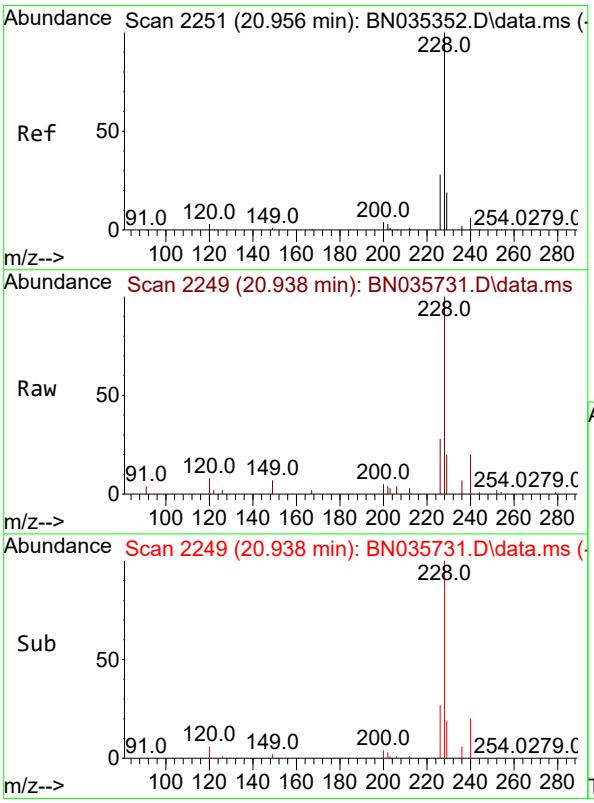
#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7453

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.9	10.3	15.5

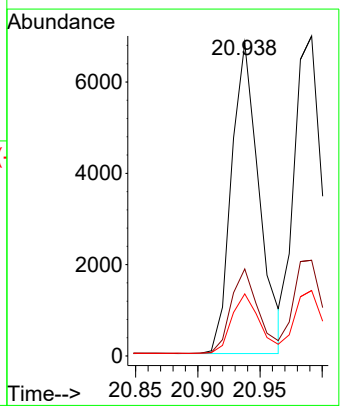


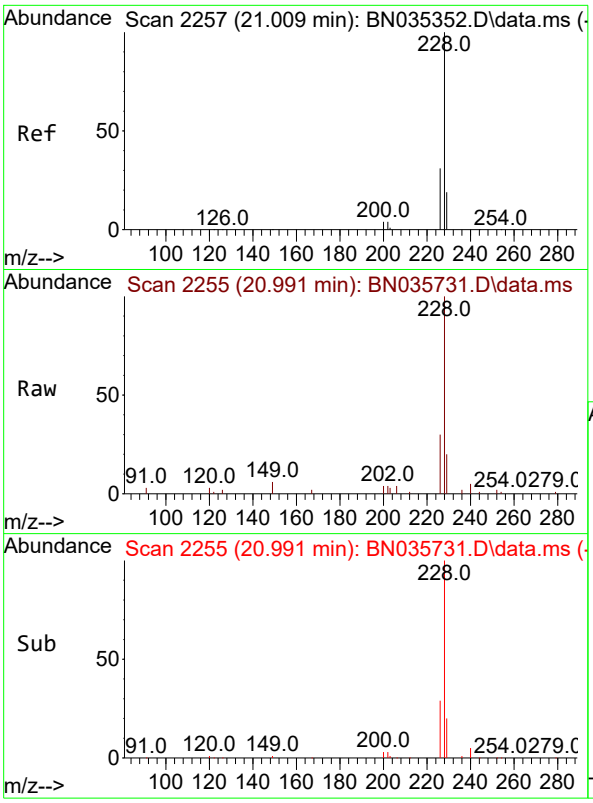


#32
Benzo(a)anthracene
Concen: 0.339 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:228 Resp: 10542

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	19.8	15.8	23.8



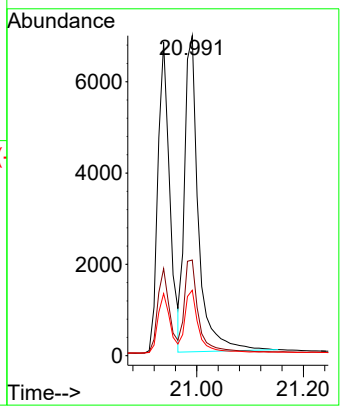


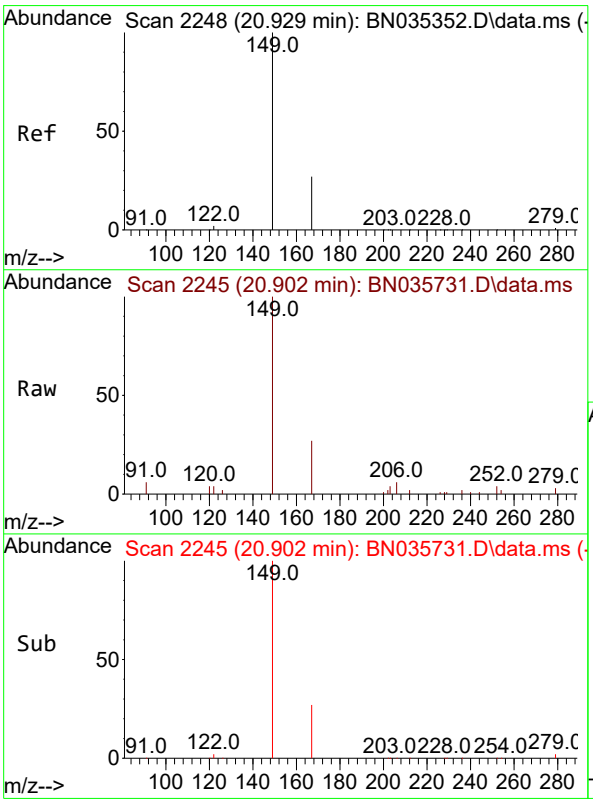
#33
Chrysene
Concen: 0.389 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 12448

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	20.4	15.9	23.9

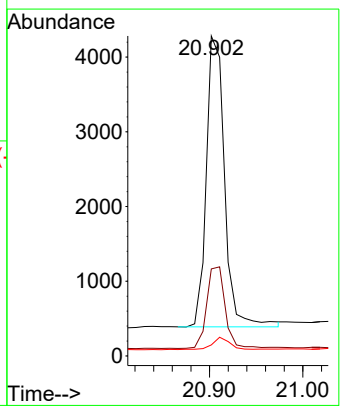


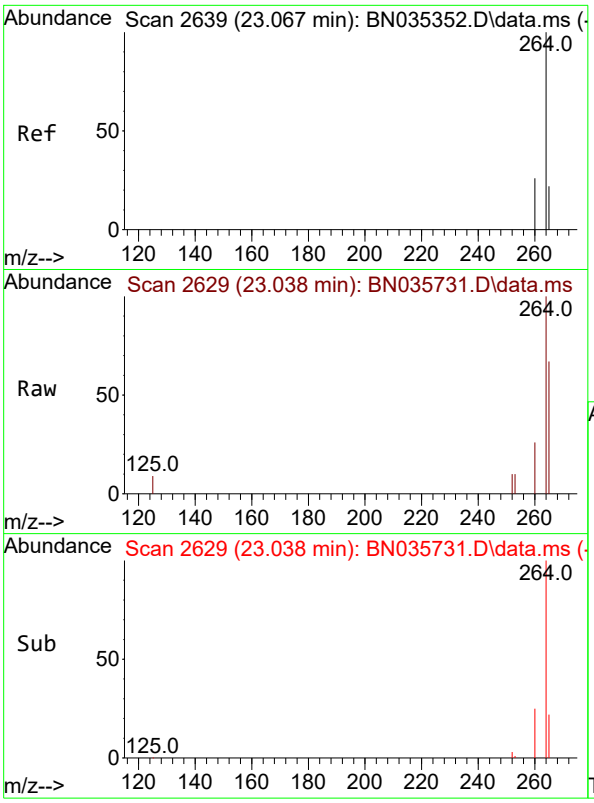


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.430 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:149 Resp: 5271

Ion	Ratio	Lower	Upper
149	100		
167	28.6	22.2	33.4
279	3.9	2.7	4.1



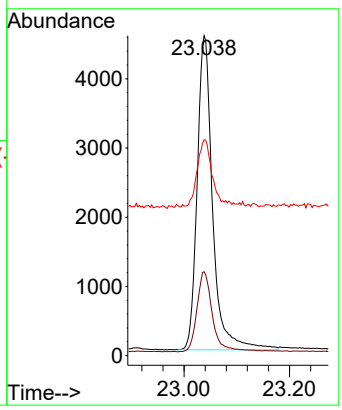


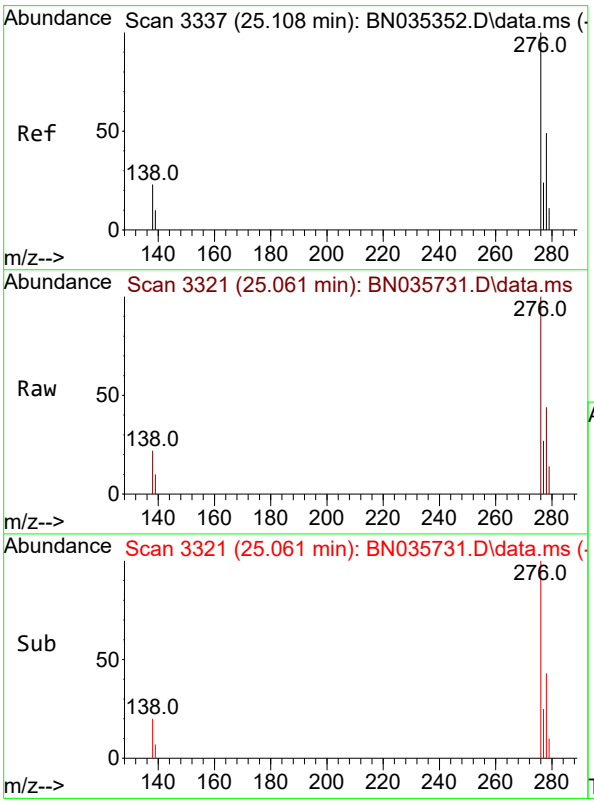
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 9229

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	67.5	40.2	60.4#

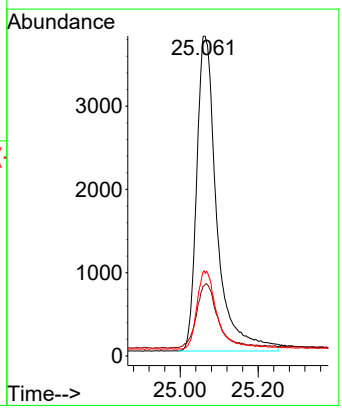


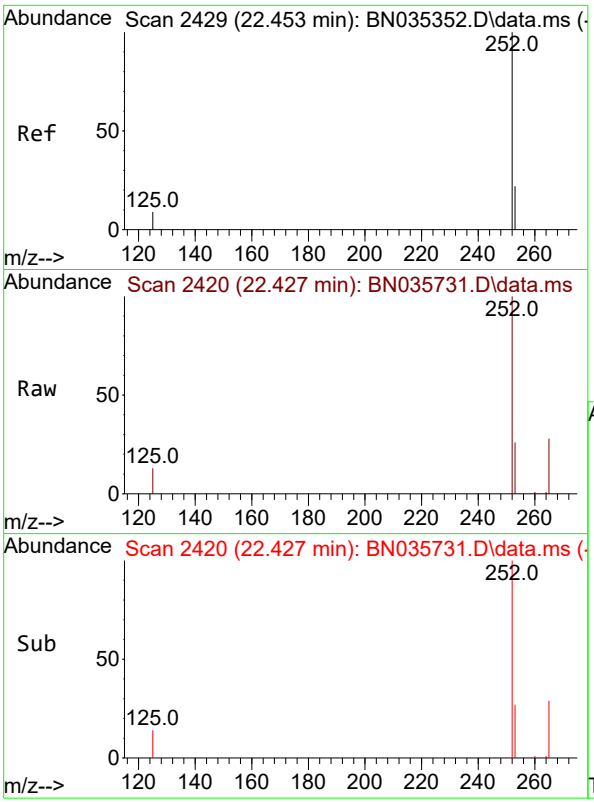


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:276 Resp: 13578

Ion	Ratio	Lower	Upper
276	100		
138	21.2	19.4	29.0
277	24.0	19.8	29.6



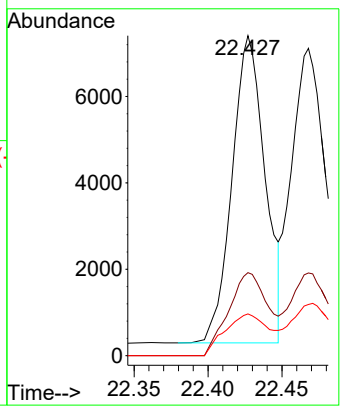


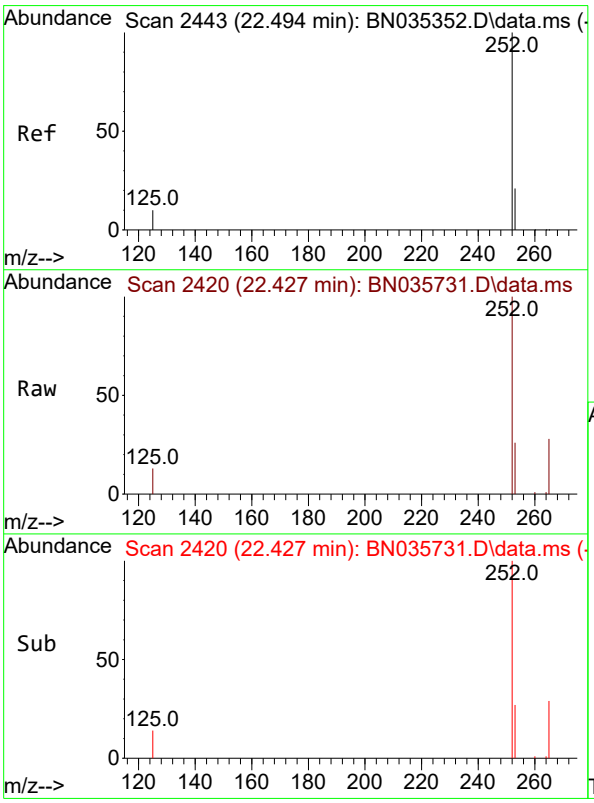
#37
Benzo(b)fluoranthene
Concen: 0.438 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 14777

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	13.1	9.6	14.4

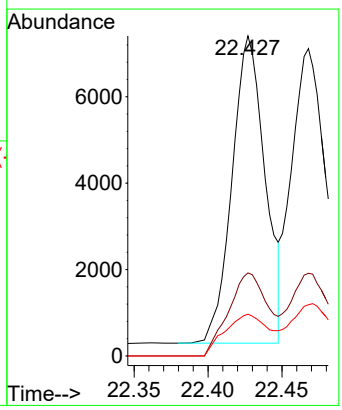


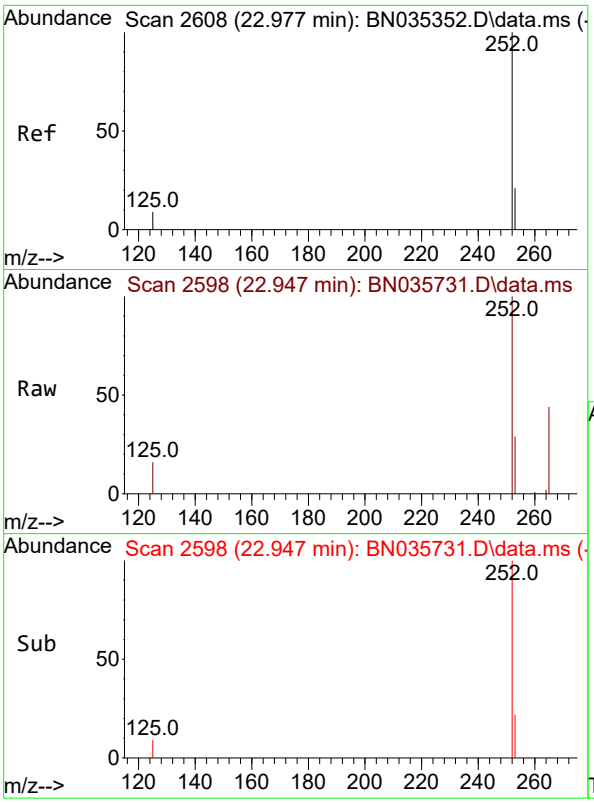


#38
Benzo(k)fluoranthene
Concen: 0.445 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:252 Resp: 14777

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	13.1	10.2	15.4



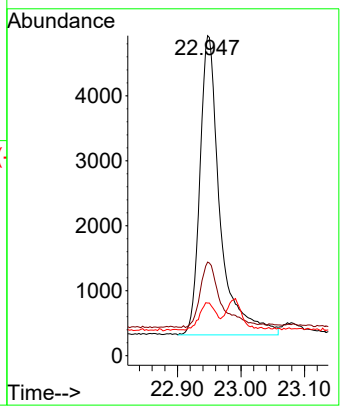


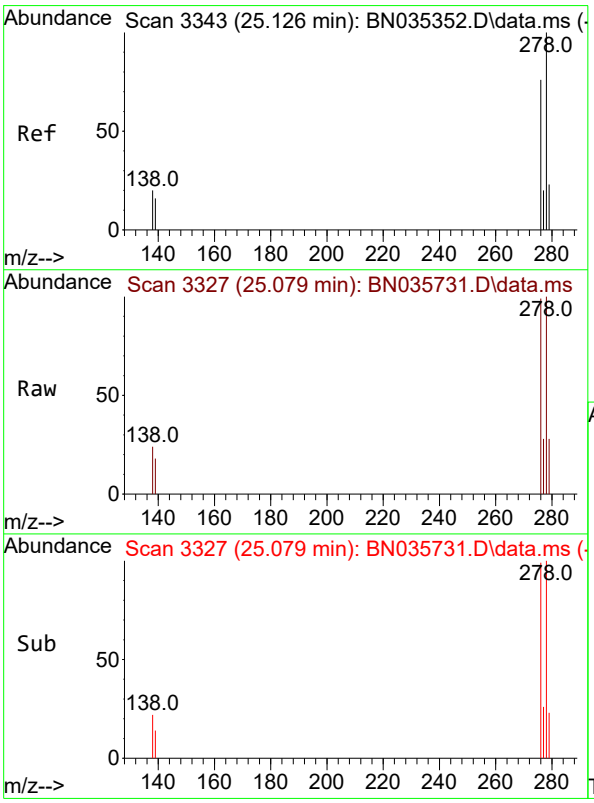
#39
Benzo(a)pyrene
Concen: 0.365 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10146

Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	16.5	10.9	16.3#

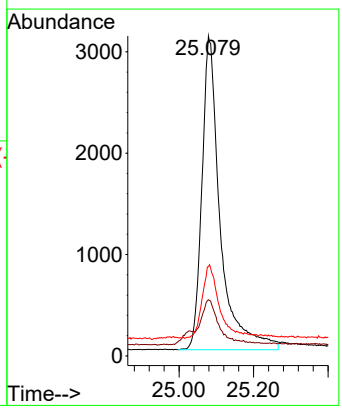


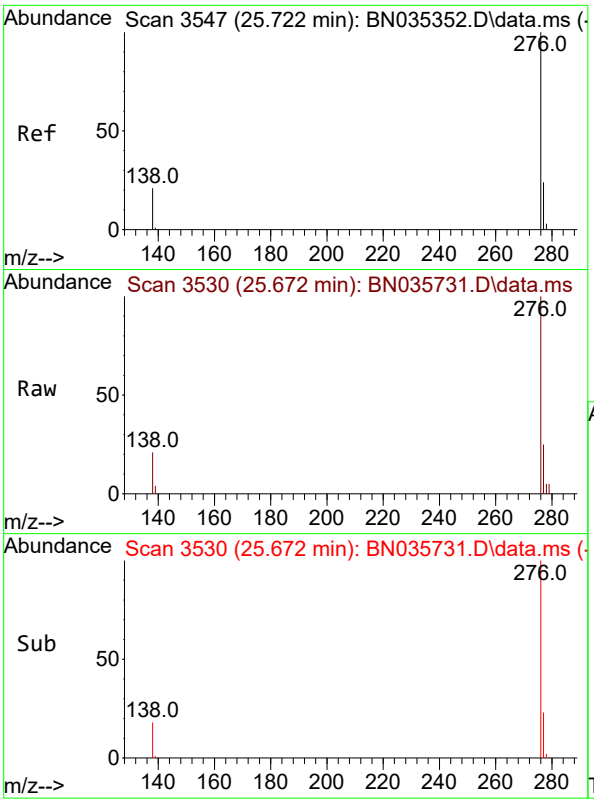


#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:278 Resp: 10523

Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.2	21.4
279	27.9	20.5	30.7



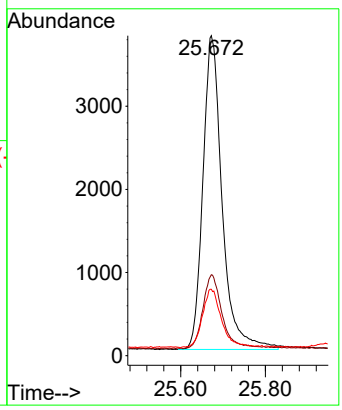


#41
Benzo(g,h,i)perylene
Concen: 0.400 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11906

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	20.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035735.D
Acq On : 20 Dec 2024 11:05
Operator : RC/JU
Sample : P5280-04MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Quant Time: Dec 20 11:38:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

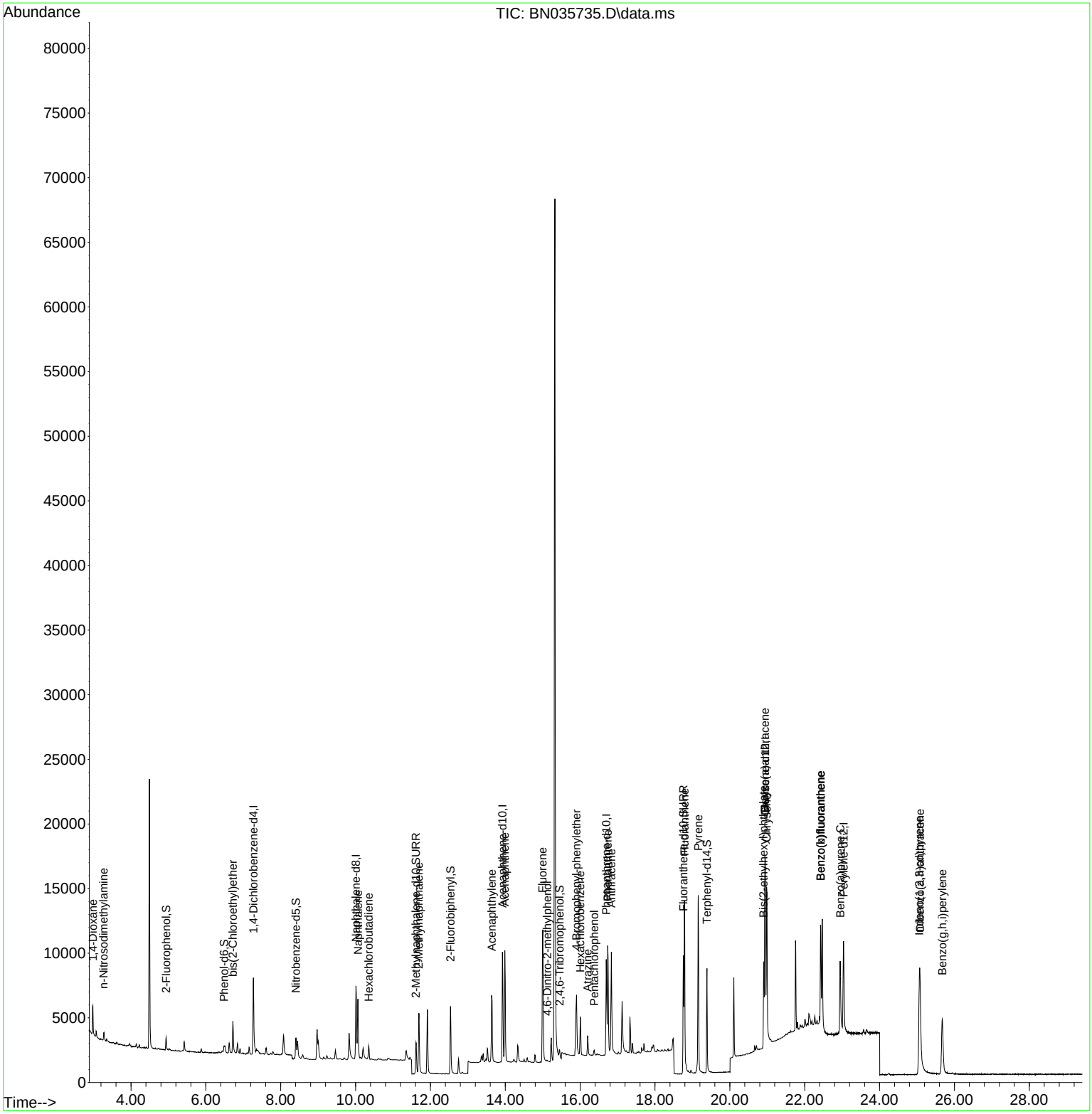
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	3051	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8358	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5197	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10502	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9278	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9467	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	857	0.112	ng	0.00
5) Phenol-d6	6.484	99	610	0.066	ng	0.00
8) Nitrobenzene-d5	8.408	82	2016	0.395	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4131	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	679	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	5479	0.279	ng	0.00
27) Fluoranthene-d10	18.757	212	11313	0.380	ng	0.00
31) Terphenyl-d14	19.388	244	8932	0.488	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	1540	0.528	ng	# 84
3) n-Nitrosodimethylamine	3.270	42	330	0.136	ng	# 78
6) bis(2-Chloroethyl)ether	6.723	93	2206	0.286	ng	98
9) Naphthalene	10.062	128	6003	0.272	ng	99
10) Hexachlorobutadiene	10.351	225	846	0.166	ng	# 98
12) 2-Methylnaphthalene	11.691	142	3950	0.250	ng	99
16) Acenaphthylene	13.636	152	6604	0.303	ng	100
17) Acenaphthene	13.988	154	4230	0.292	ng	98
18) Fluorene	14.993	166	5719	0.276	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	103	0.100	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2167	0.353	ng	# 84
22) Hexachlorobenzene	16.003	284	2445	0.339	ng	96
23) Atrazine	16.202	200	1259	0.288	ng	94
24) Pentachlorophenol	16.375	266	273	0.087	ng	# 79
25) Phenanthrene	16.735	178	10260	0.356	ng	100
26) Anthracene	16.835	178	8925	0.342	ng	99
28) Fluoranthene	18.789	202	12930	0.332	ng	99
30) Pyrene	19.156	202	13495	0.394	ng	99
32) Benzo(a)anthracene	20.938	228	11302	0.348	ng	99
33) Chrysene	20.982	228	12637	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6113	0.477	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.061	276	12412	0.335	ng	97
37) Benzo(b)fluoranthene	22.427	252	18573	0.536	ng	95
38) Benzo(k)fluoranthene	22.427	252	18573	0.545	ng	96
39) Benzo(a)pyrene	22.950	252	9310	0.326	ng	# 90
40) Dibenzo(a,h)anthracene	25.082	278	9663	0.331	ng	95
41) Benzo(g,h,i)perylene	25.675	276	9301	0.305	ng	99

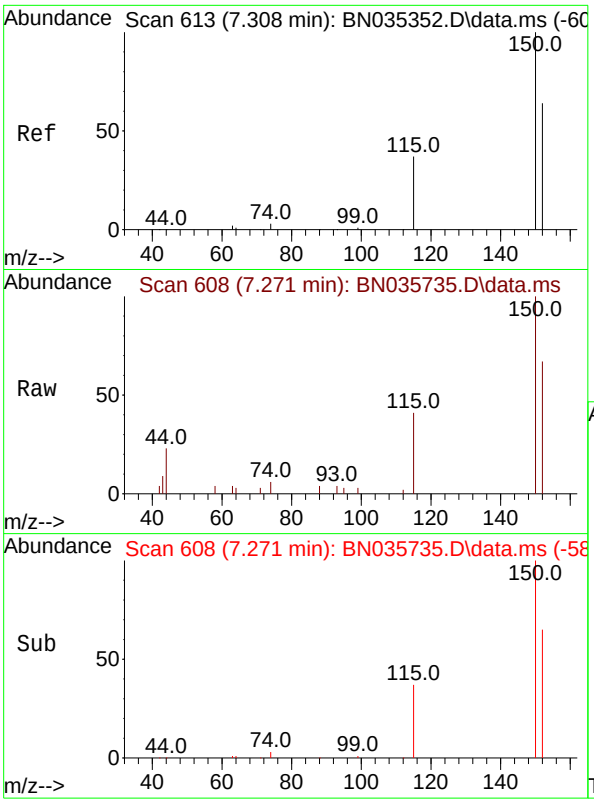
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035735.D
Acq On : 20 Dec 2024 11:05
Operator : RC/JU
Sample : P5280-04MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Quant Time: Dec 20 11:38:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



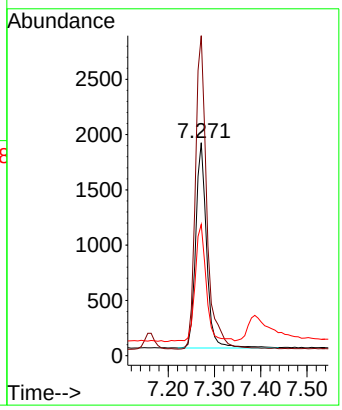


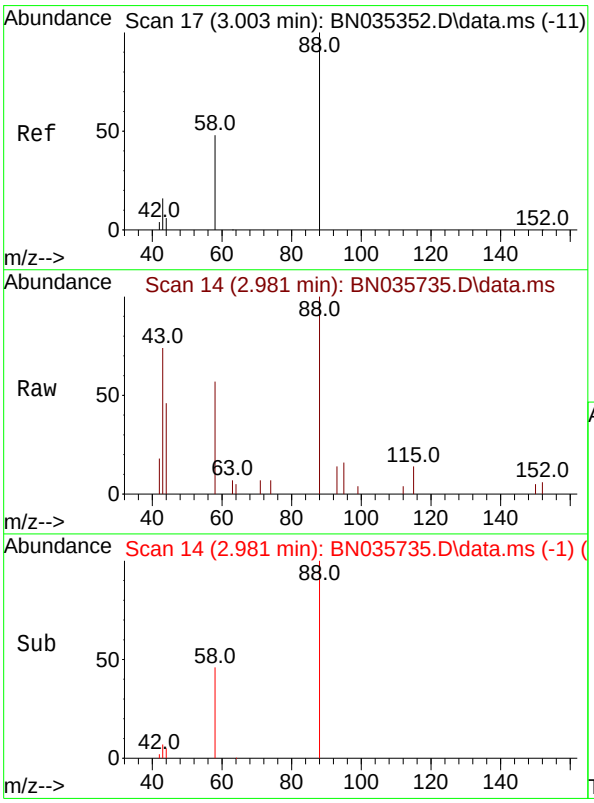
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:152 Resp: 3051

Ion	Ratio	Lower	Upper
152	100		
150	150.2	124.0	186.0
115	61.6	49.6	74.4

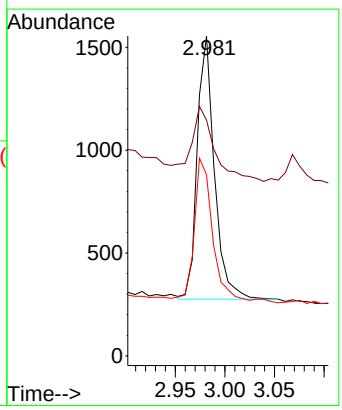


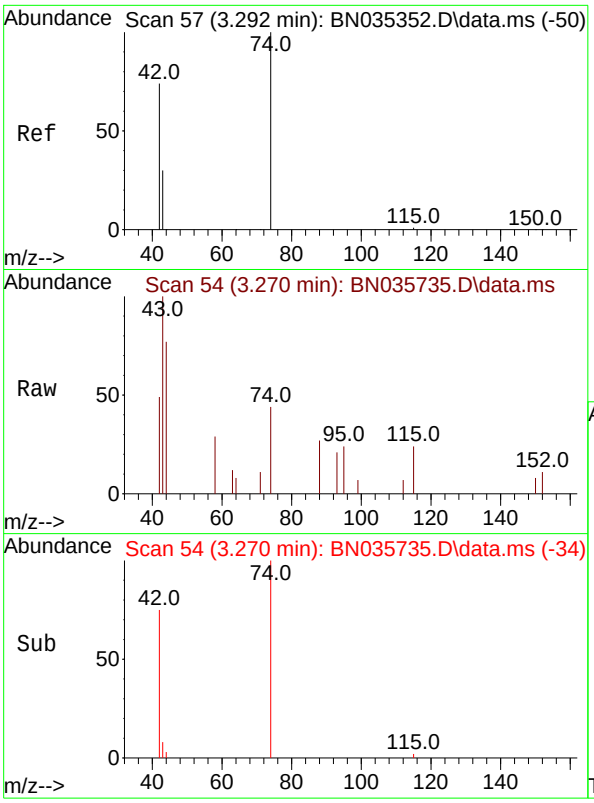


#2
1,4-Dioxane
Concen: 0.528 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 88 Resp: 1540

Ion	Ratio	Lower	Upper
88	100		
43	40.1	17.2	25.8#
58	60.8	44.5	66.7



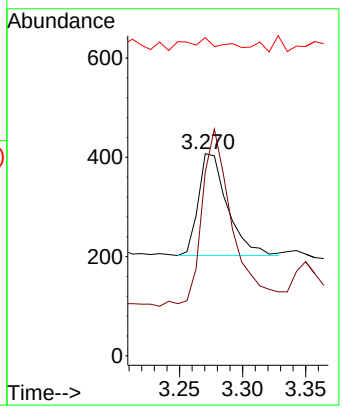


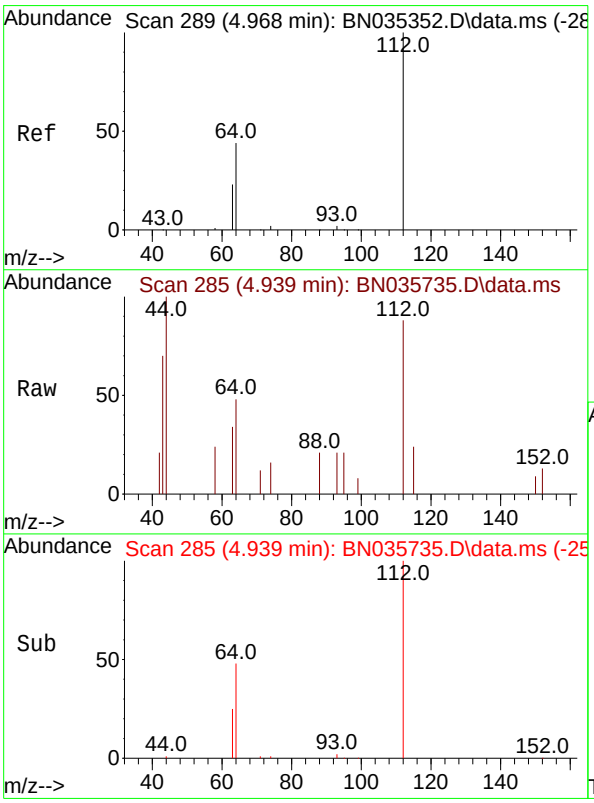
#3
n-Nitrosodimethylamine
Concen: 0.136 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion: 42 Resp: 330

Ion	Ratio	Lower	Upper
42	100		
74	184.5	124.9	187.3
44	0.0	2.2	3.4#

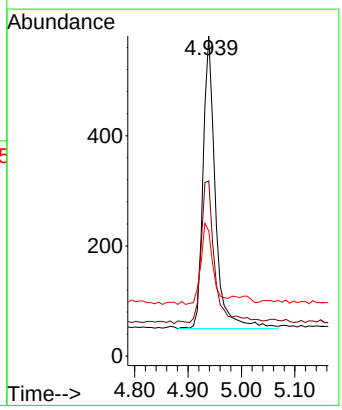


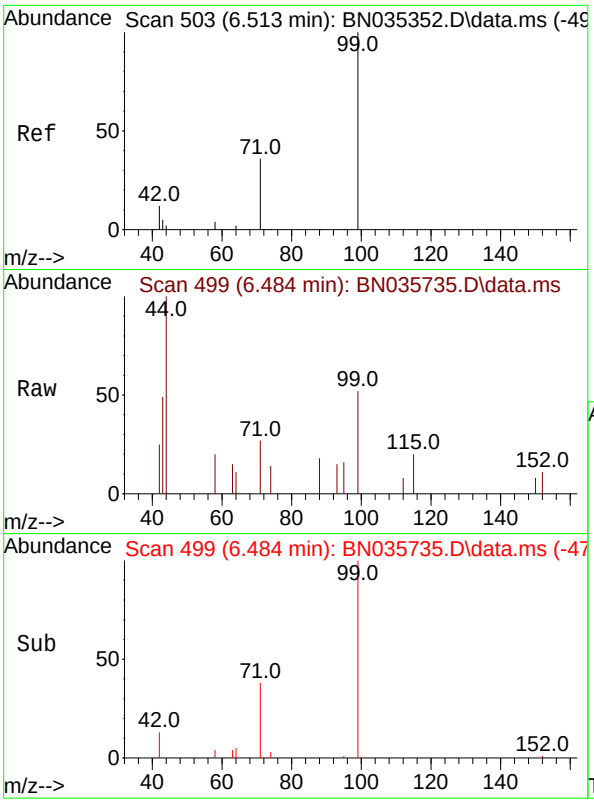


#4
2-Fluorophenol
Concen: 0.112 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:112 Resp: 857

Ion	Ratio	Lower	Upper
112	100		
64	52.4	39.8	59.8
63	26.8	21.0	31.6



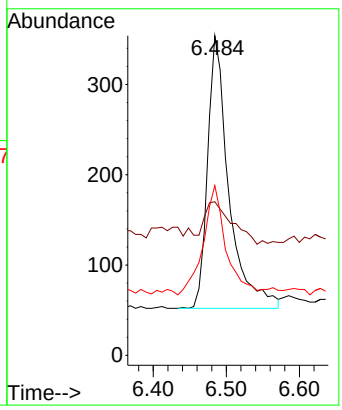


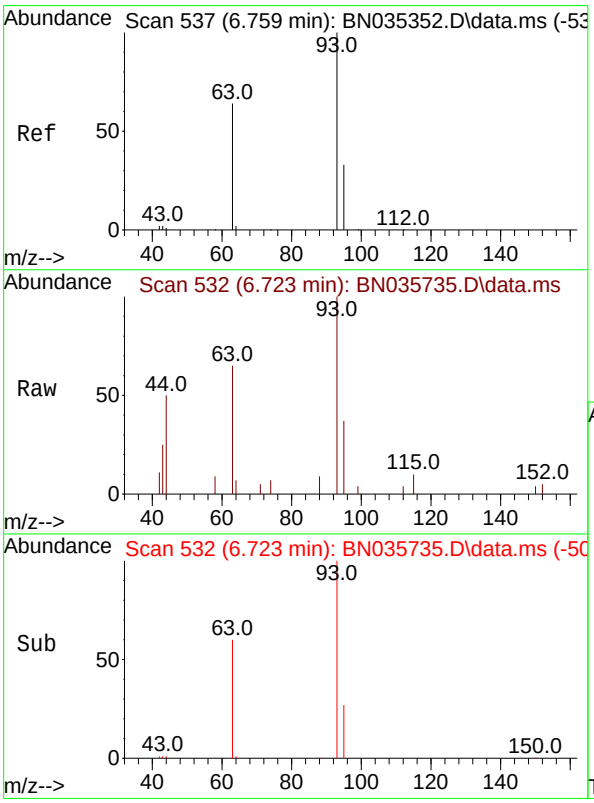
#5
Phenol-d6
Concen: 0.066 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion: 99 Resp: 610

Ion	Ratio	Lower	Upper
99	100		
42	19.2	11.4	17.2#
71	43.3	29.3	43.9

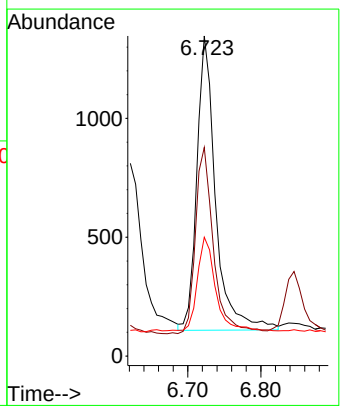


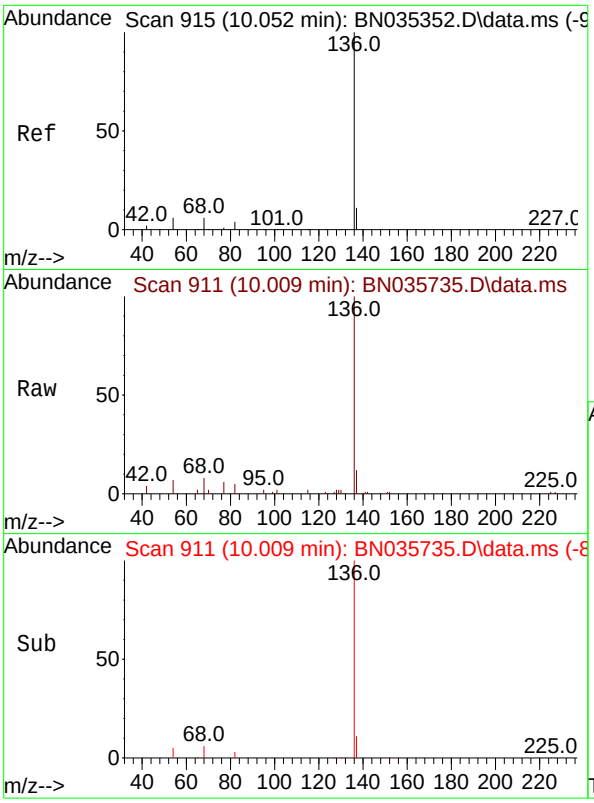


#6
bis(2-Chloroethyl)ether
Concen: 0.286 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 93 Resp: 2206

Ion	Ratio	Lower	Upper
93	100		
63	61.4	50.4	75.6
95	30.6	25.7	38.5



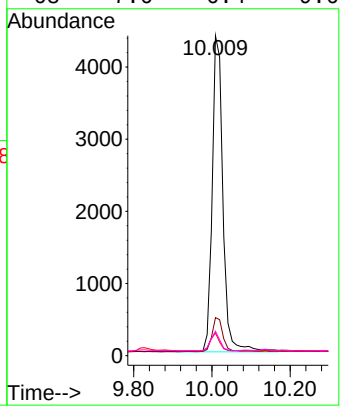


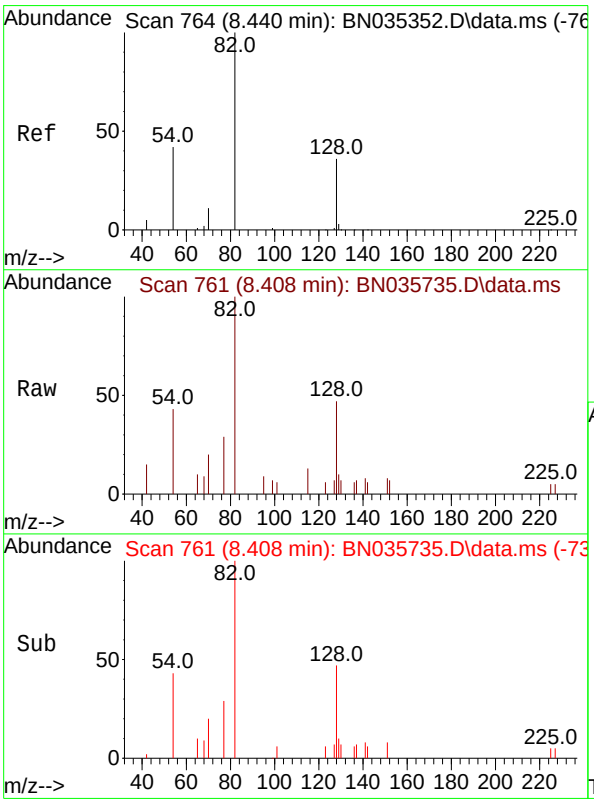
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:136 Resp: 8358

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.2	15.2
54	7.0	6.1	9.1
68	7.6	6.4	9.6

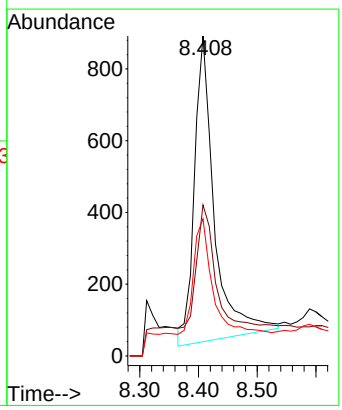


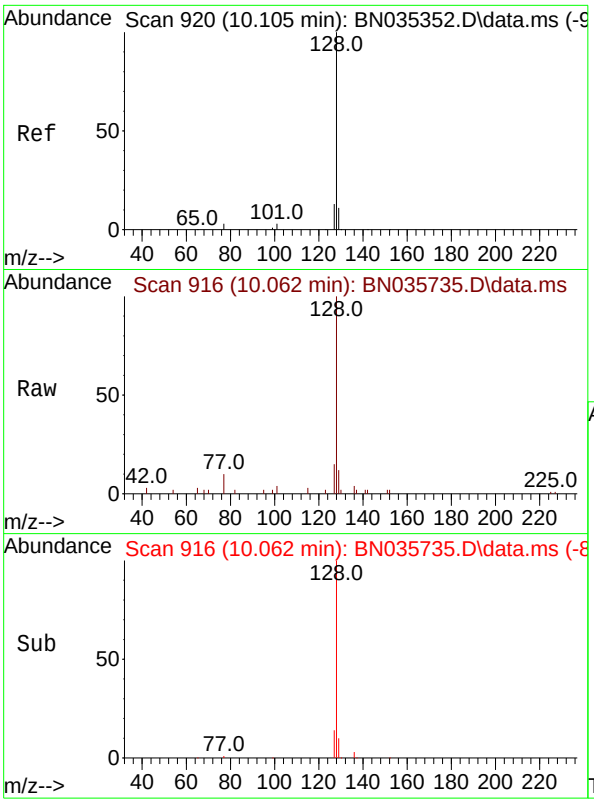


#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 82 Resp: 2016

Ion	Ratio	Lower	Upper
82	100		
128	47.2	33.4	50.0
54	42.8	36.7	55.1



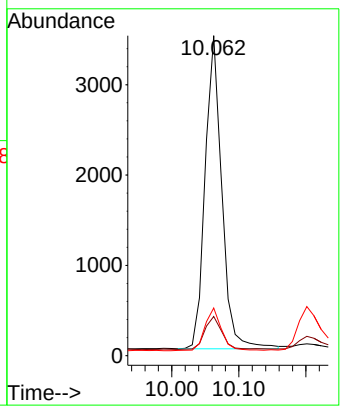


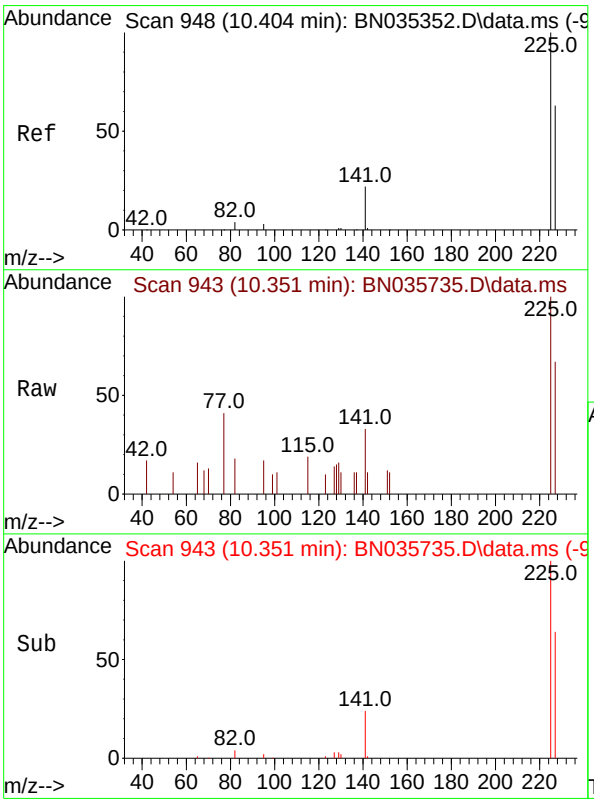
#9
Naphthalene
Concen: 0.272 ng
RT: 10.062 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:128 Resp: 6003

Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	14.9	11.4	17.2

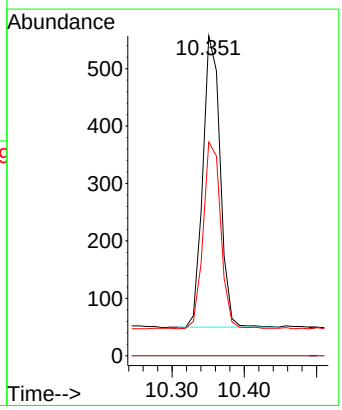


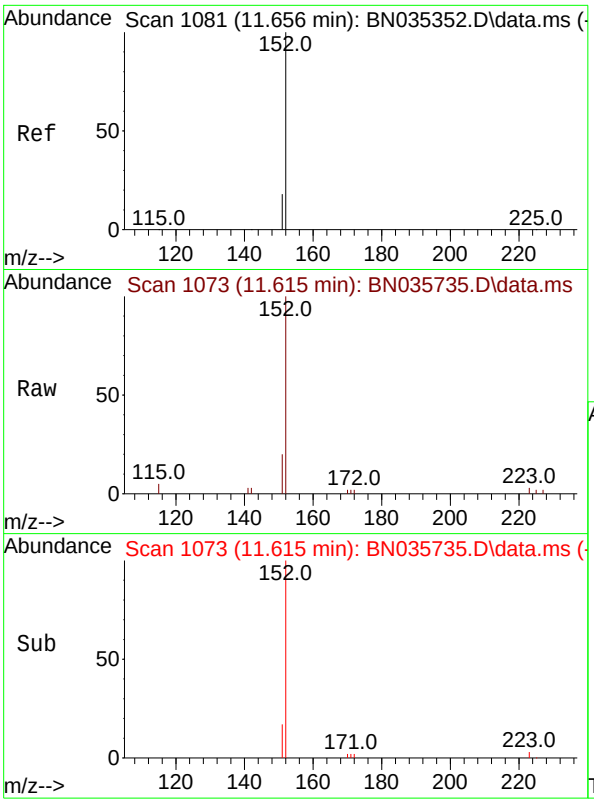


#10
Hexachlorobutadiene
Concen: 0.166 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:225 Resp: 846

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9



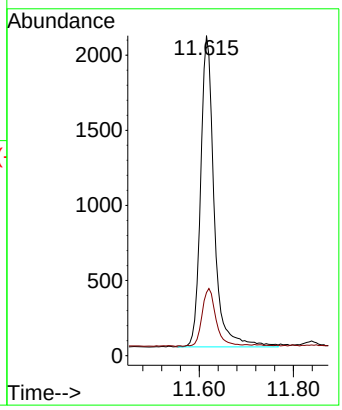


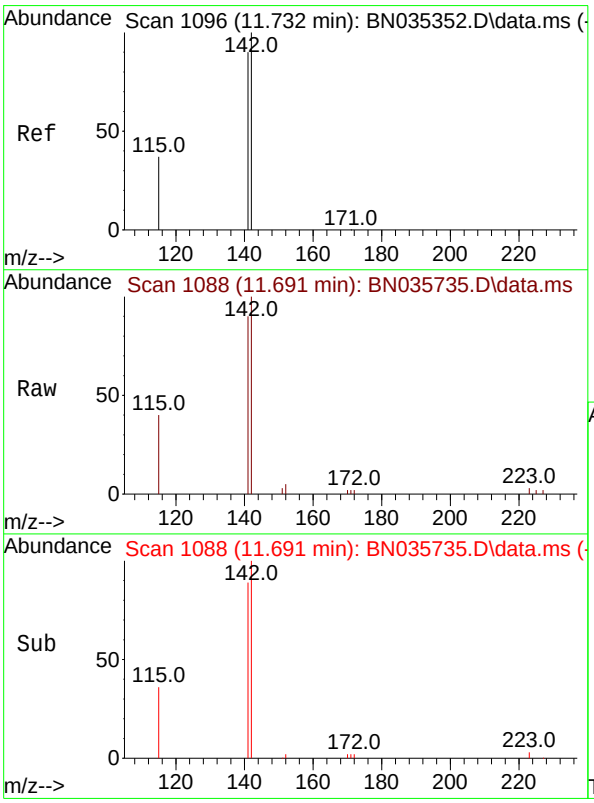
#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 11.615 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:152 Resp: 4131

Ion	Ratio	Lower	Upper
152	100		
151	19.0	16.6	25.0

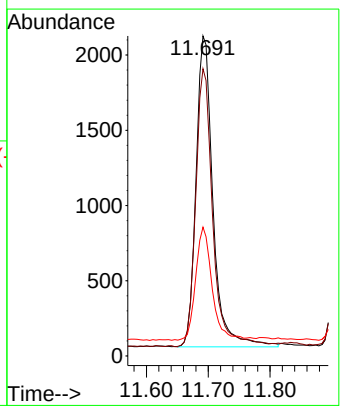


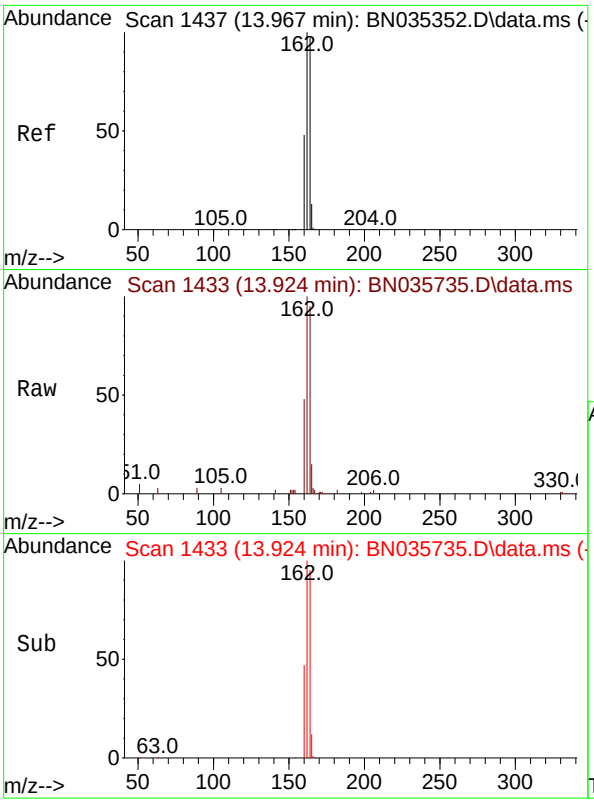


#12
2-Methylnaphthalene
Concen: 0.250 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:142 Resp: 3950

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.2	31.4	47.0



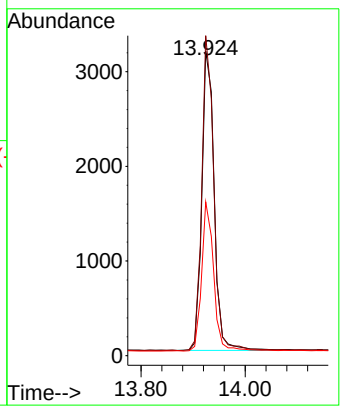


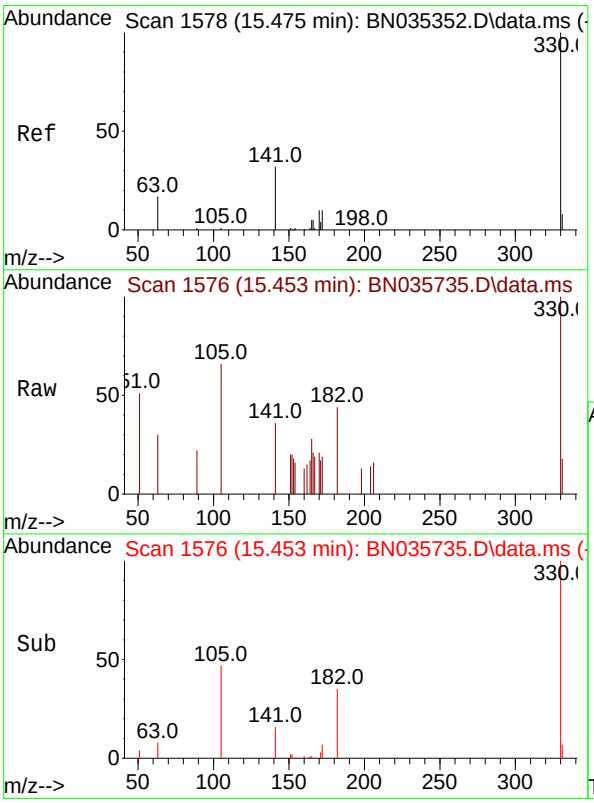
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:164 Resp: 5197

Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	50.5	40.1	60.1

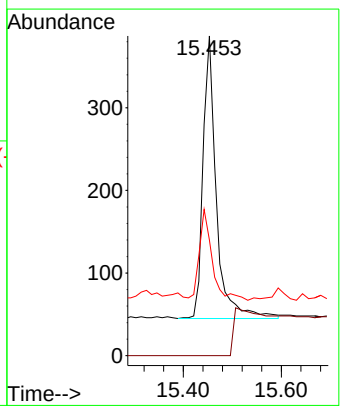


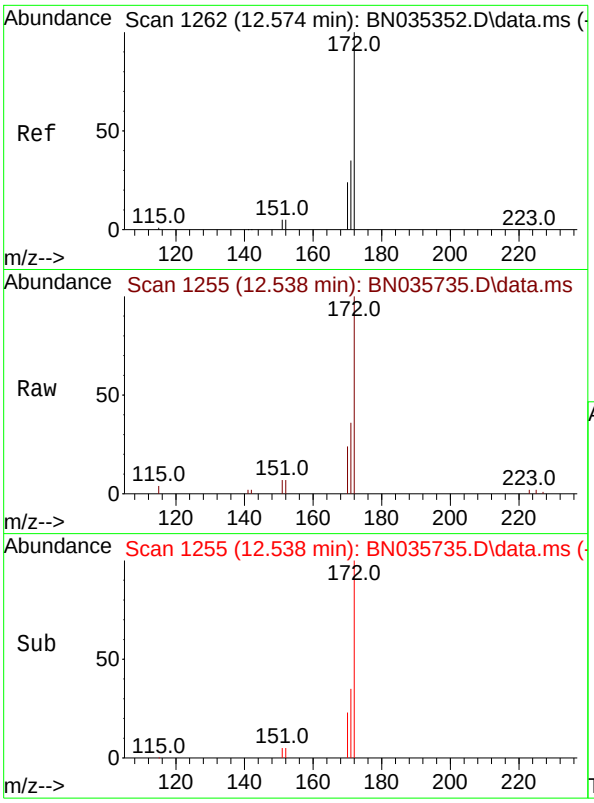


#14
2,4,6-Tribromophenol
Concen: 0.184 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:330 Resp: 679

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.9	26.6	40.0



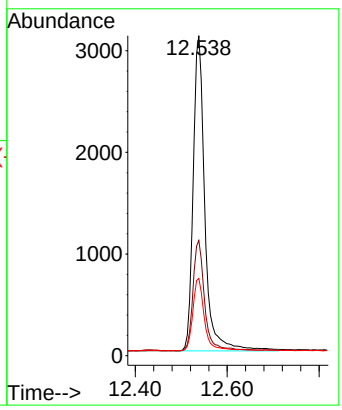


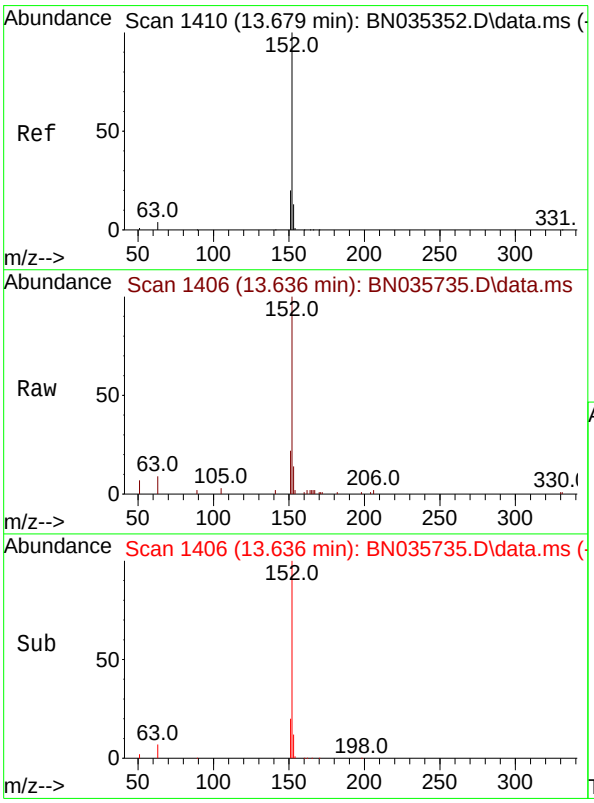
#15
2-Fluorobiphenyl
Concen: 0.279 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:172 Resp: 5479

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.2	19.8	29.8

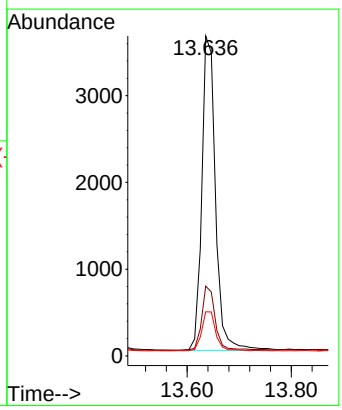


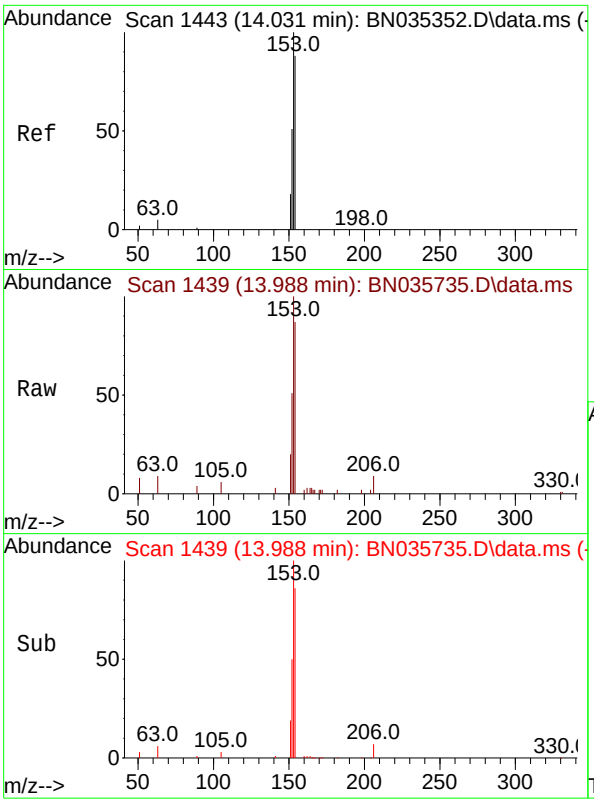


#16
Acenaphthylene
Concen: 0.303 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:152 Resp: 6604

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.1	10.4	15.6



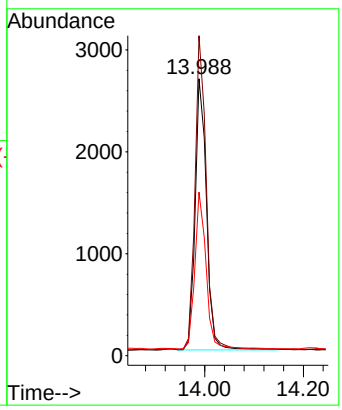


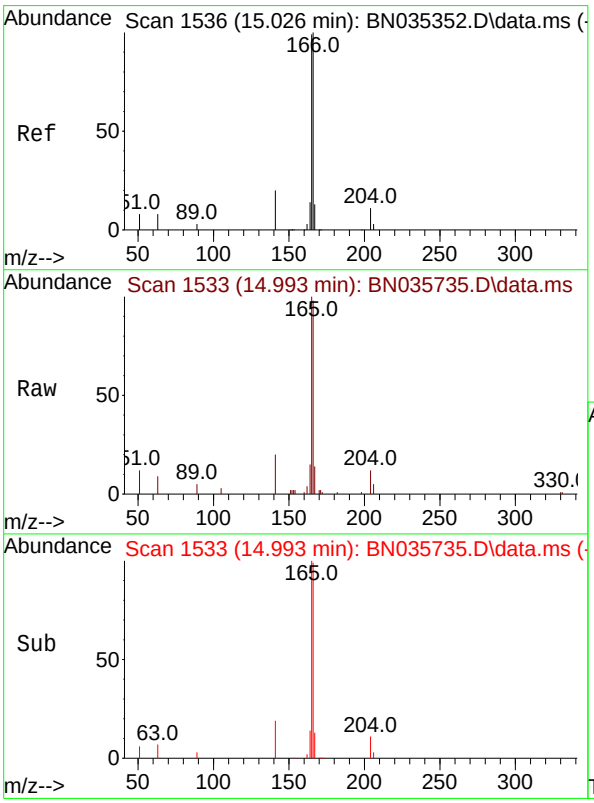
#17
Acenaphthene
Concen: 0.292 ng
RT: 13.988 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:154 Resp: 4230

Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	57.3	49.0	73.6

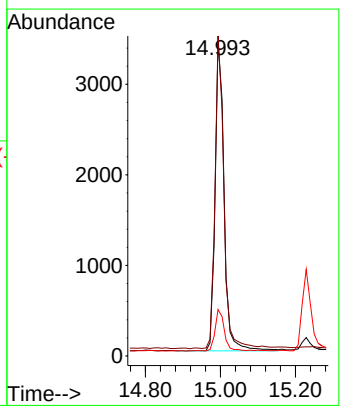


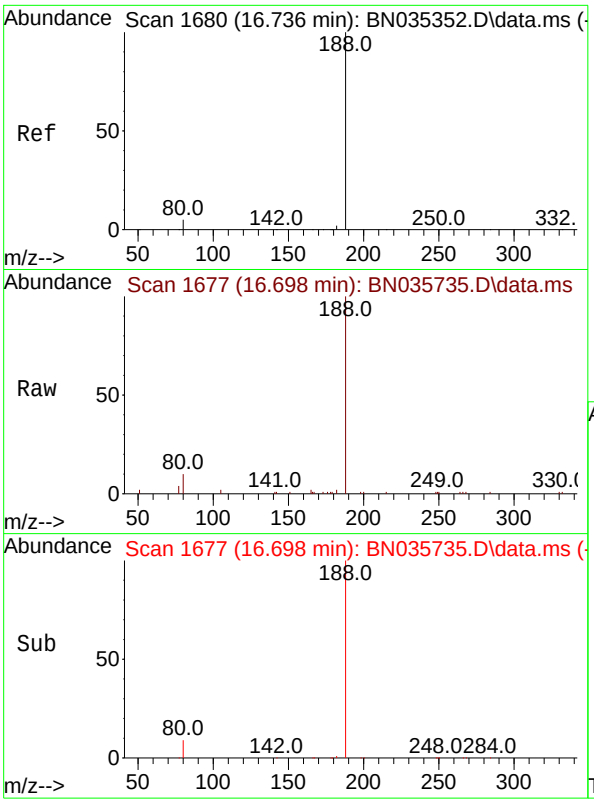


#18
Fluorene
Concen: 0.276 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:166 Resp: 5719

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.7	119.5
167	13.9	10.8	16.2



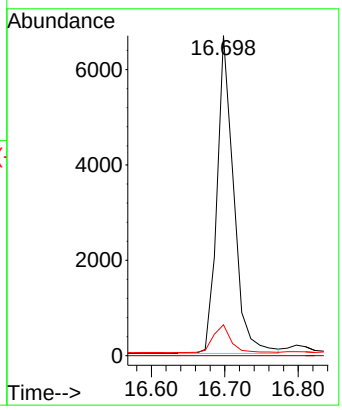


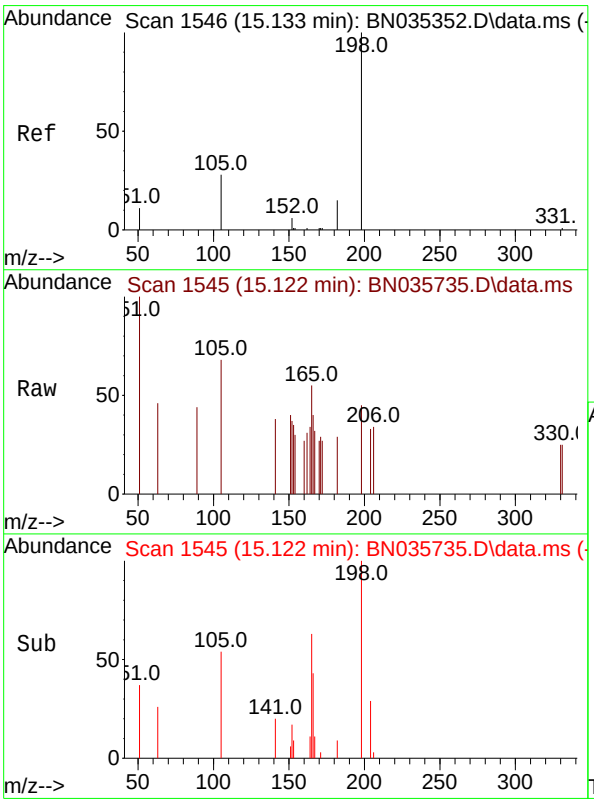
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:188 Resp: 10502

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	4.6	6.8#

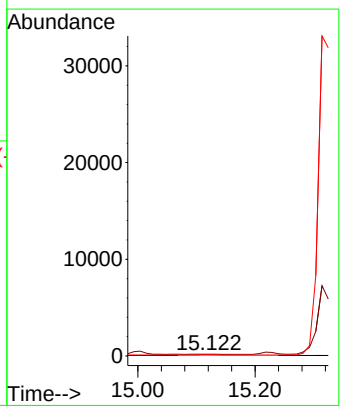


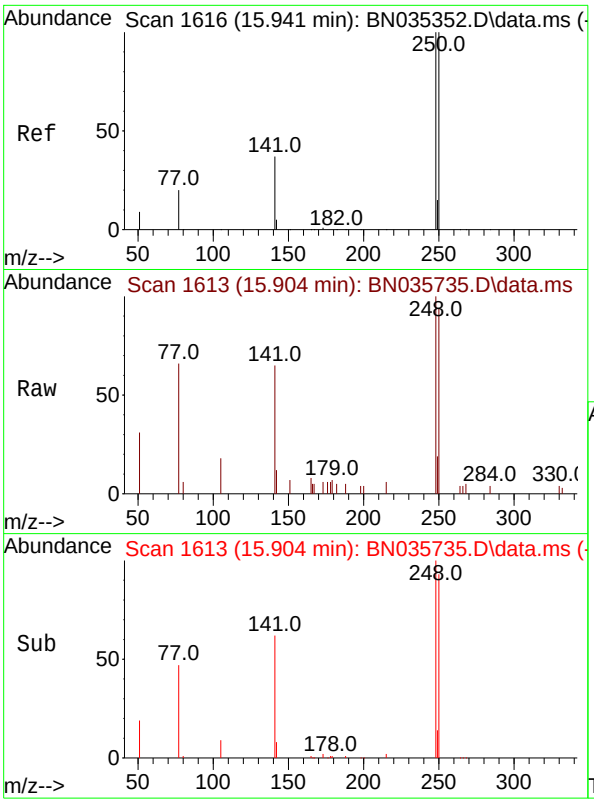


#20
4,6-Dinitro-2-methylphenol
Concen: 0.100 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	220.2	46.5	69.7#
105	150.0	45.3	67.9#



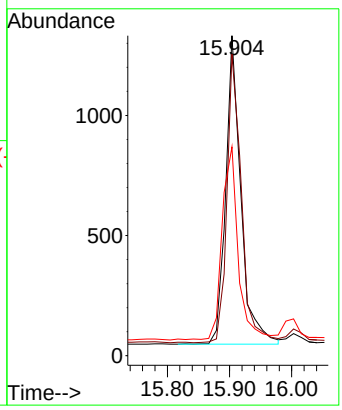


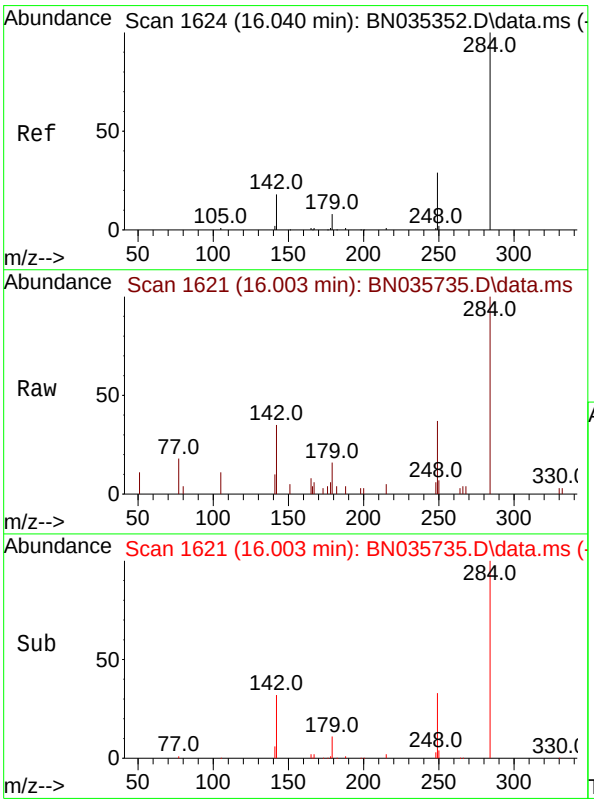
#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:248 Resp: 2167

Ion	Ratio	Lower	Upper
248	100		
250	94.2	80.6	120.8
141	65.2	31.5	47.3#

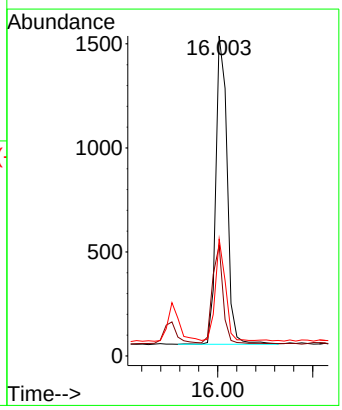


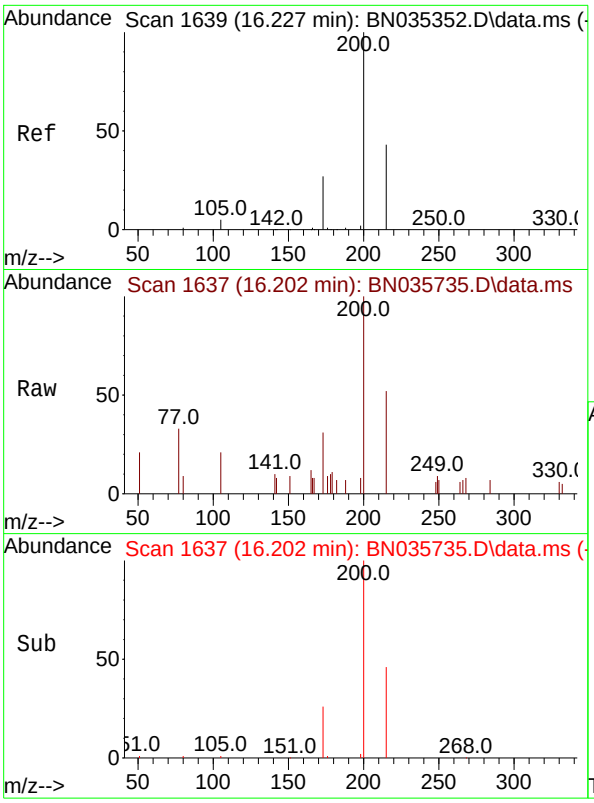


#22
Hexachlorobenzene
Concen: 0.339 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:284 Resp: 2445

Ion	Ratio	Lower	Upper
284	100		
142	30.1	26.7	40.1
249	29.0	24.6	36.8



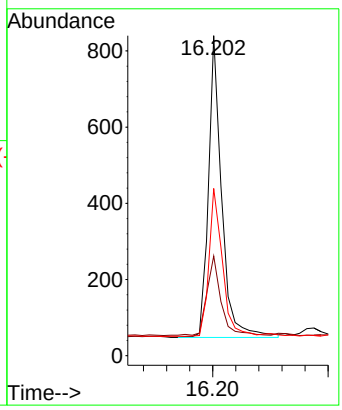


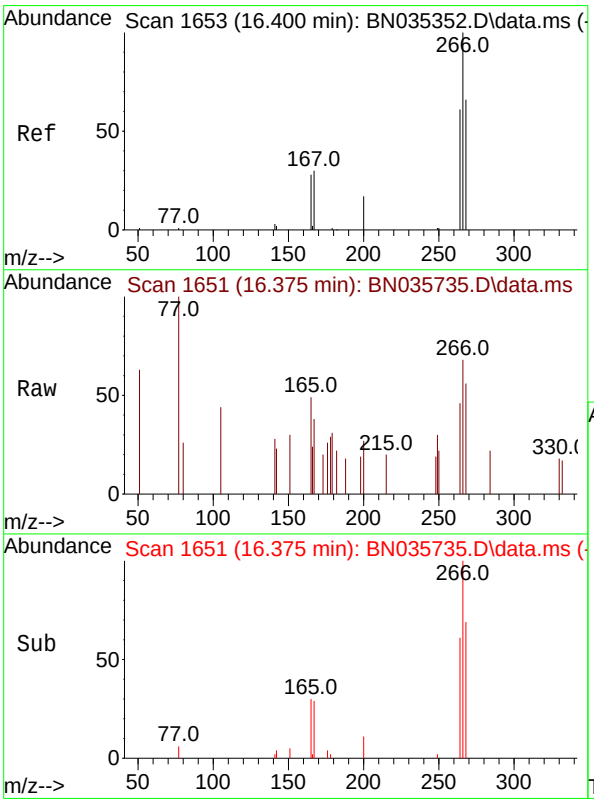
#23
Atrazine
Concen: 0.288 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:200 Resp: 1259

Ion	Ratio	Lower	Upper
200	100		
173	31.2	24.1	36.1
215	52.3	36.9	55.3

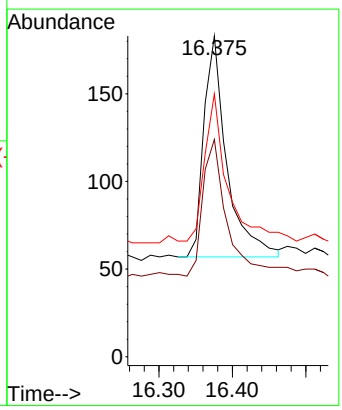


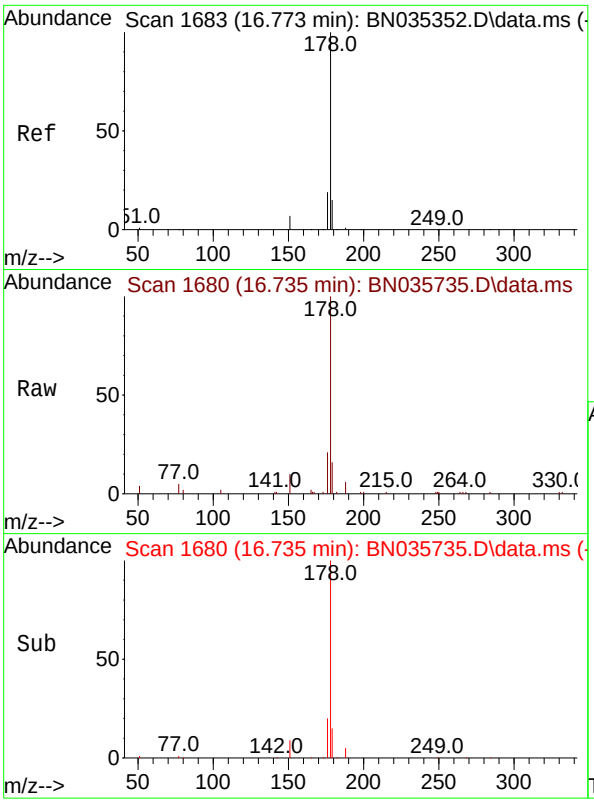


#24
Pentachlorophenol
Concen: 0.087 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:266 Resp: 273

Ion	Ratio	Lower	Upper
266	100		
264	65.9	42.3	63.5#
268	70.7	43.3	64.9#



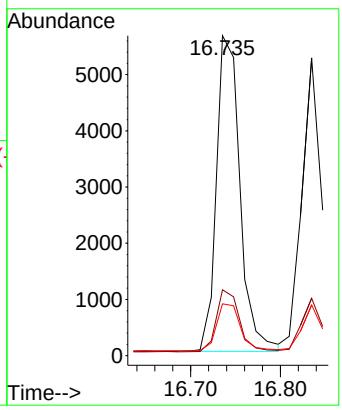


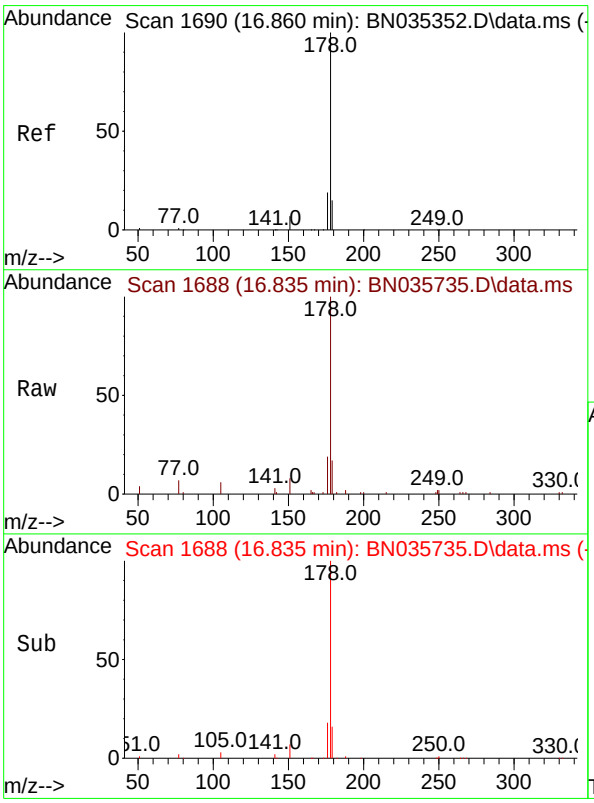
#25
Phenanthrene
Concen: 0.356 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:178 Resp: 10260

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.3	18.5

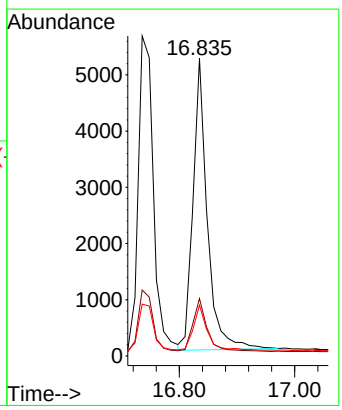


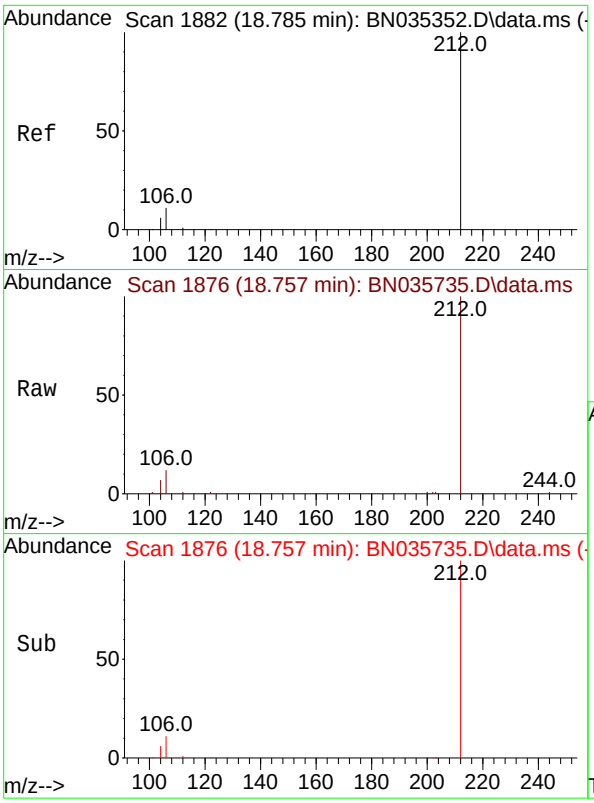


#26
Anthracene
Concen: 0.342 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:178 Resp: 8925

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8



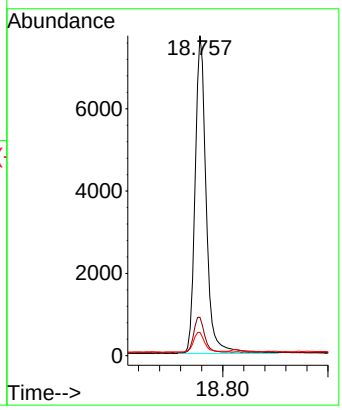


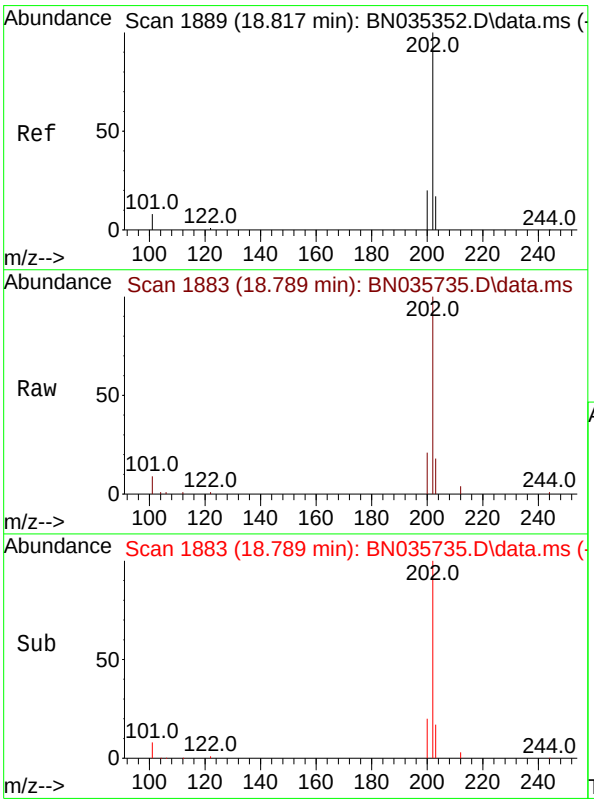
#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:212 Resp: 11313

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.1	5.3	7.9

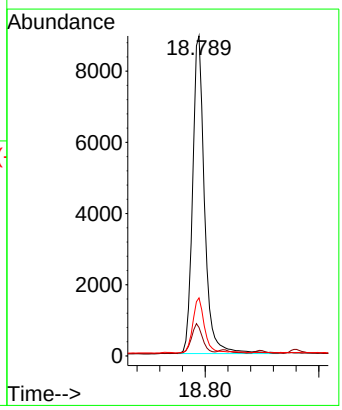


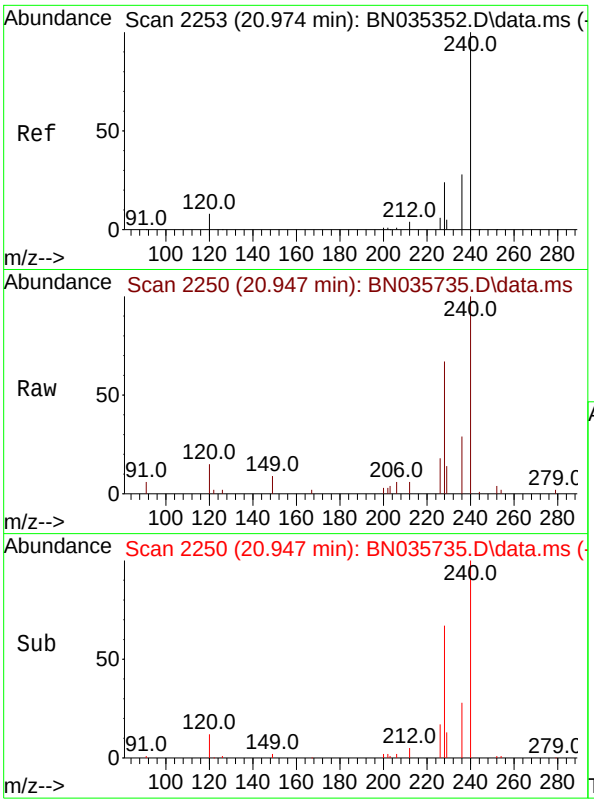


#28
Fluoranthene
Concen: 0.332 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:202 Resp: 12930

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	16.8	13.7	20.5



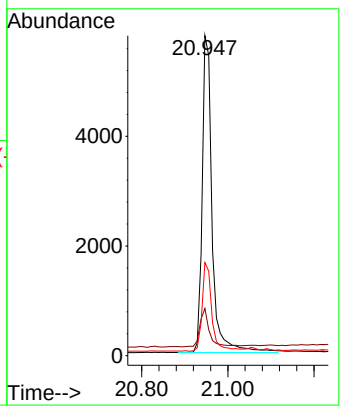


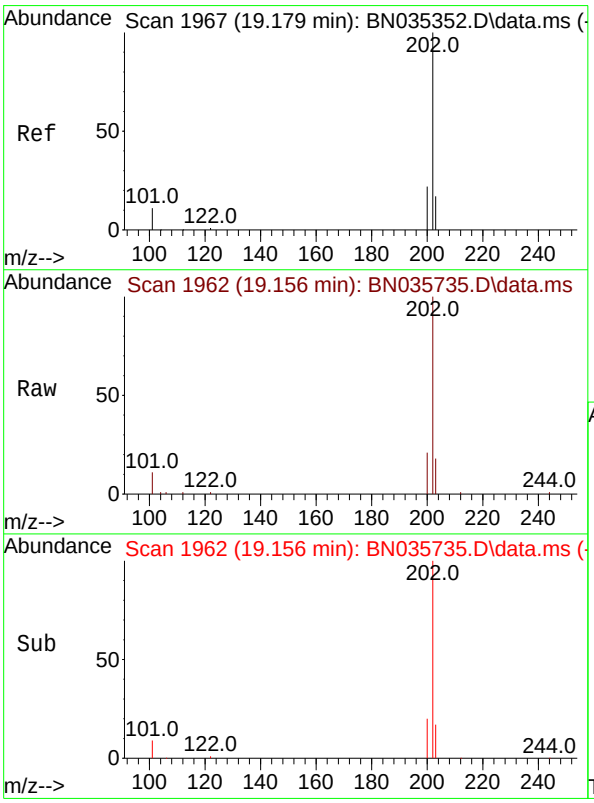
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:240 Resp: 9278

Ion	Ratio	Lower	Upper
240	100		
120	14.8	7.9	11.9#
236	29.1	22.9	34.3

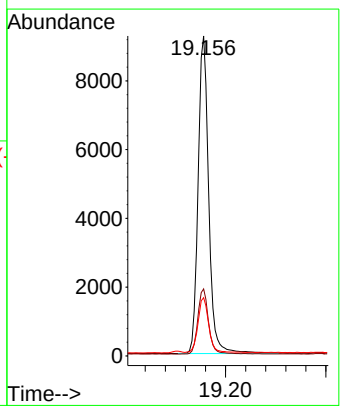


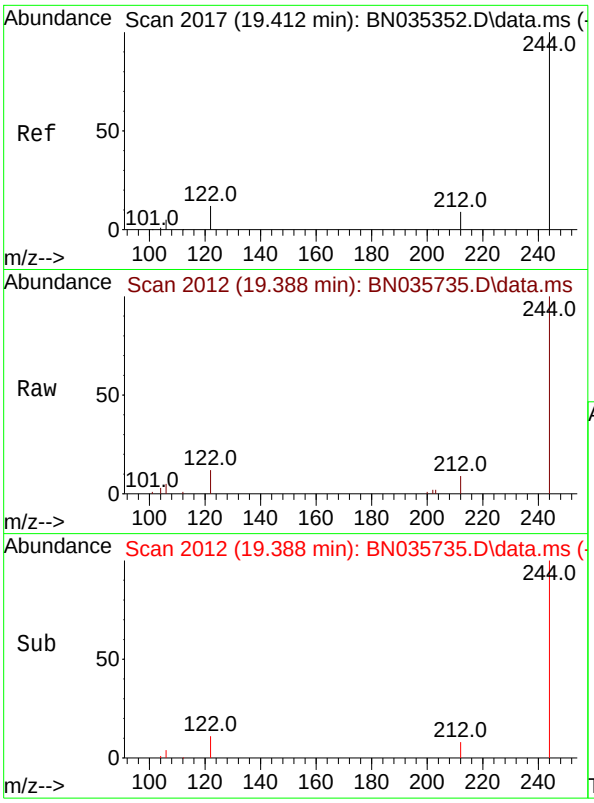


#30
Pyrene
Concen: 0.394 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:202 Resp: 13495

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	17.6	14.3	21.5



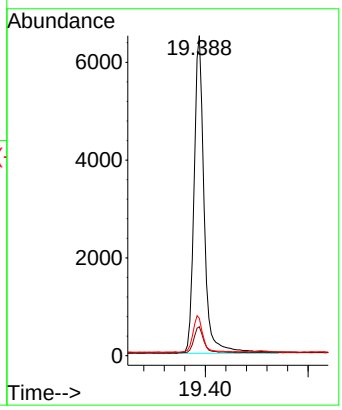


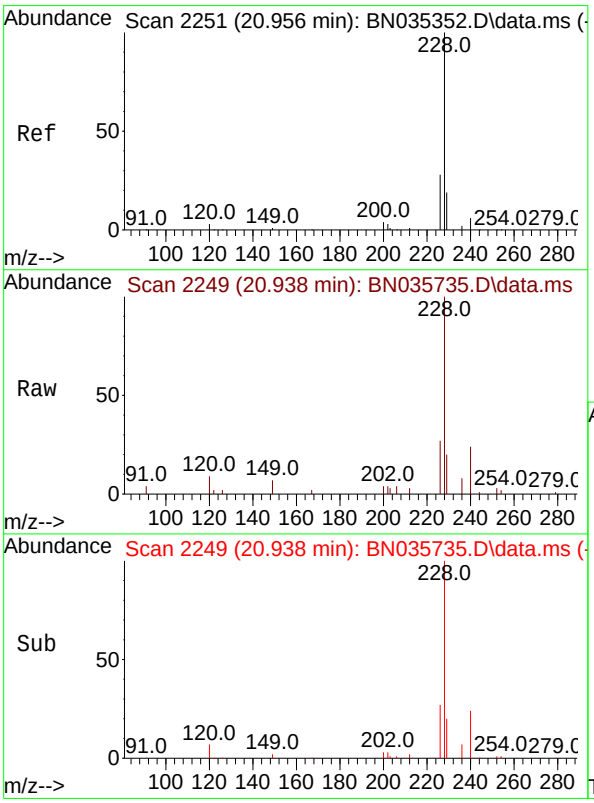
#31
Terphenyl-d14
Concen: 0.488 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:244 Resp: 8932

Ion	Ratio	Lower	Upper
244	100		
212	9.0	8.1	12.1
122	11.7	10.3	15.5

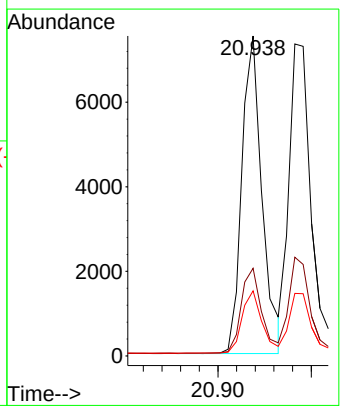


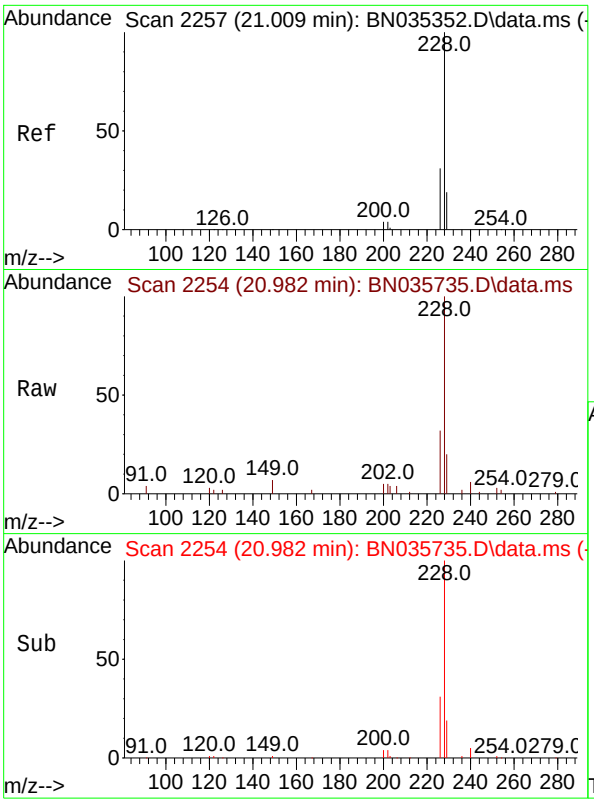


#32
Benzo(a)anthracene
Concen: 0.348 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:228 Resp: 11302

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.5	33.7
229	20.4	15.8	23.8



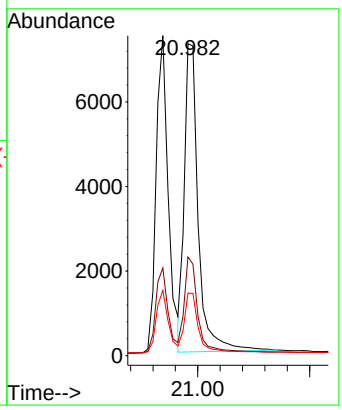


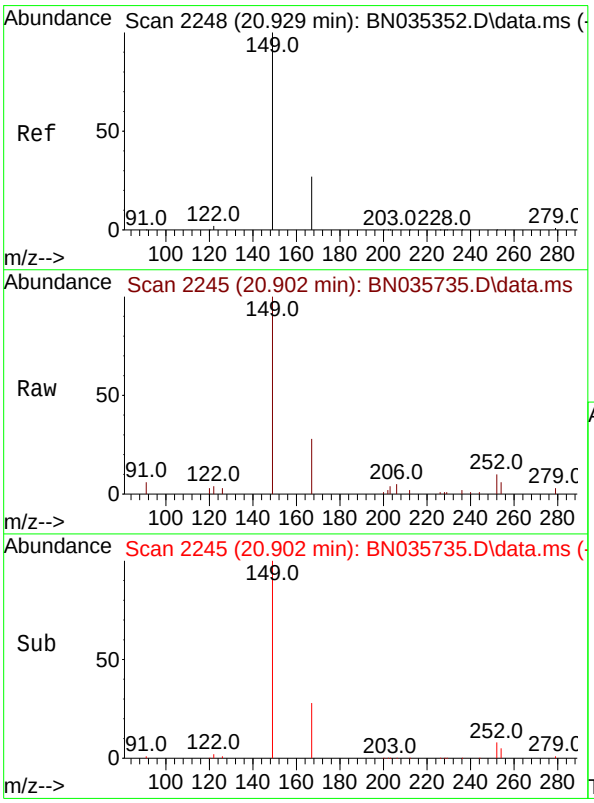
#33
Chrysene
Concen: 0.378 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:228 Resp: 12637

Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.6	37.0
229	20.1	15.9	23.9

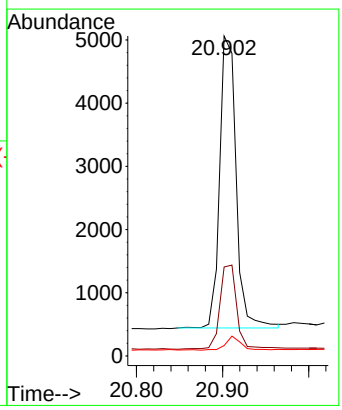


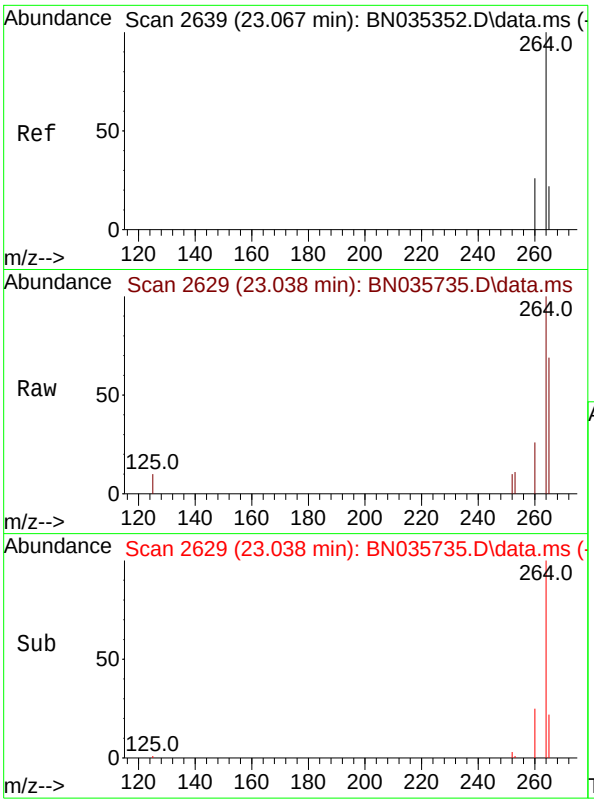


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:149 Resp: 6113

Ion	Ratio	Lower	Upper
149	100		
167	29.6	22.2	33.4
279	4.4	2.7	4.1#



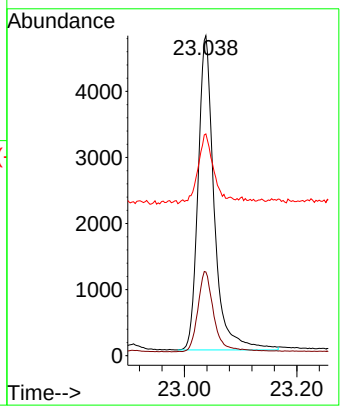


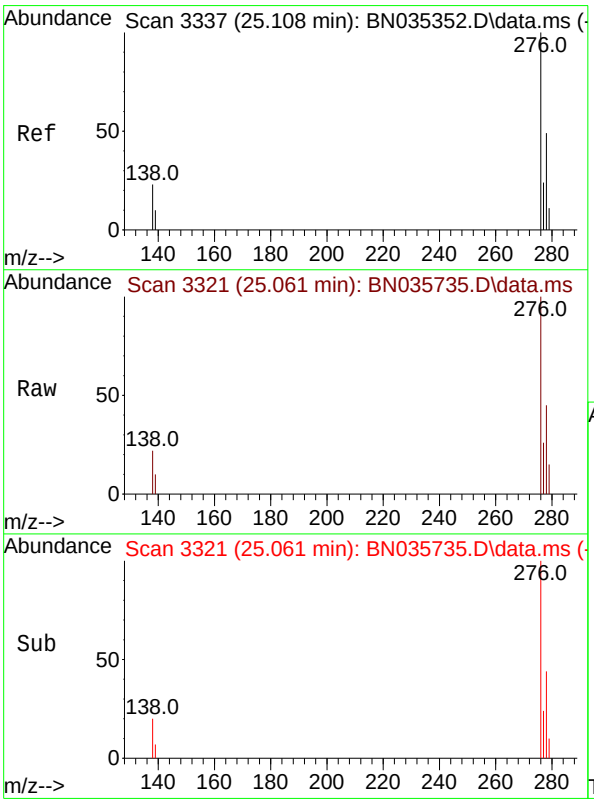
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:264 Resp: 9467

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	69.3	40.2	60.4#

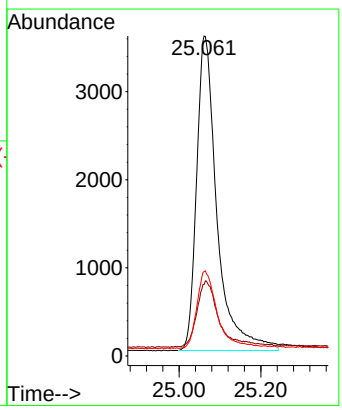


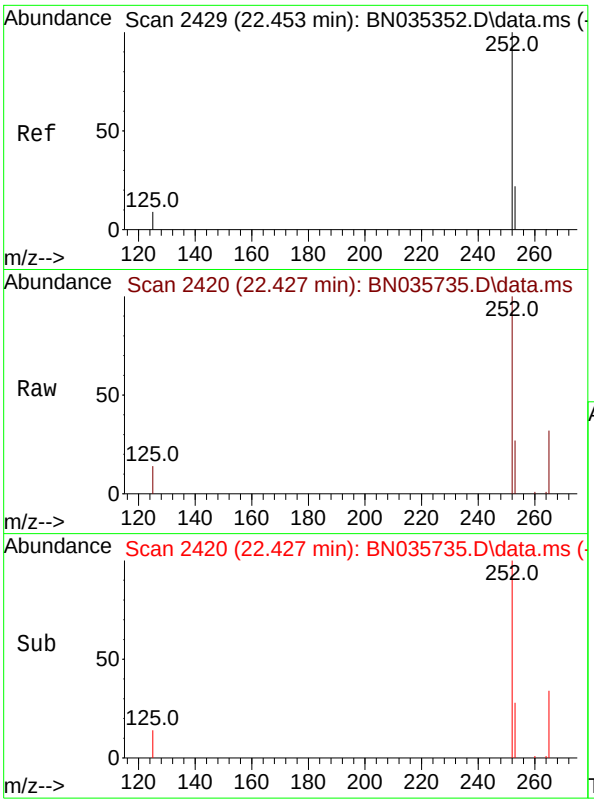


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:276 Resp: 12412

Ion	Ratio	Lower	Upper
276	100		
138	21.0	19.4	29.0
277	24.4	19.8	29.6



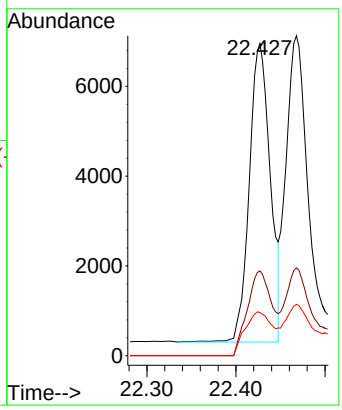


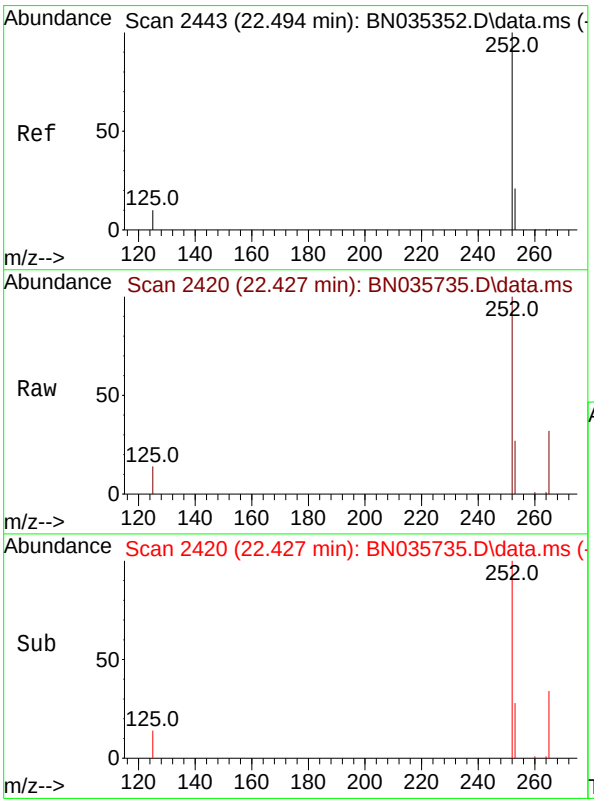
#37
Benzo(b)fluoranthene
Concen: 0.536 ng
RT: 22.427 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:252 Resp: 18573

Ion	Ratio	Lower	Upper
252	100		
253	27.2	19.6	29.4
125	13.8	9.6	14.4

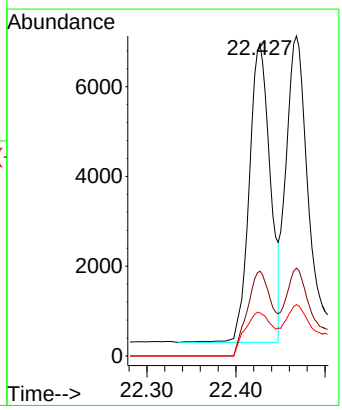


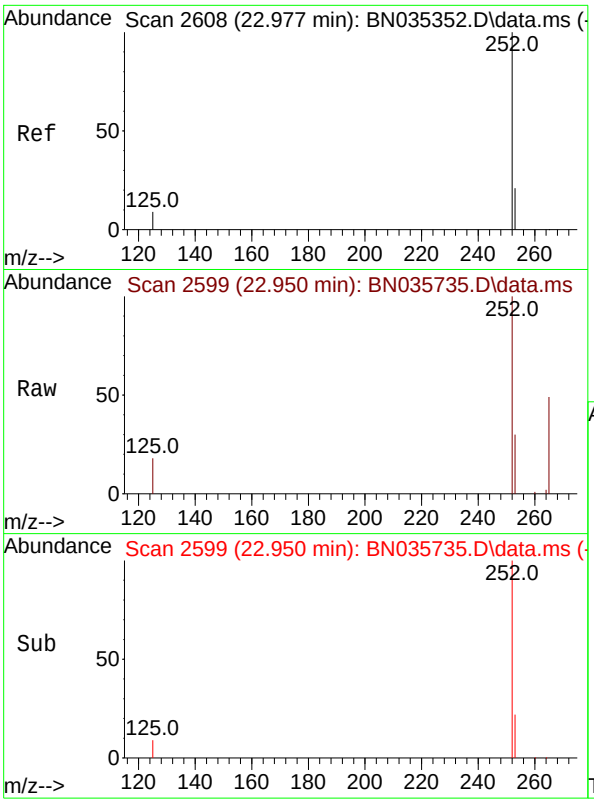


#38
Benzo(k)fluoranthene
Concen: 0.545 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:252 Resp: 18573

Ion	Ratio	Lower	Upper
252	100		
253	27.2	19.5	29.3
125	13.8	10.2	15.4



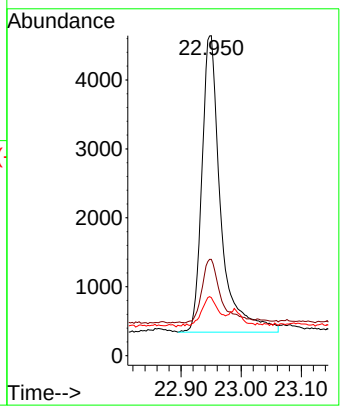


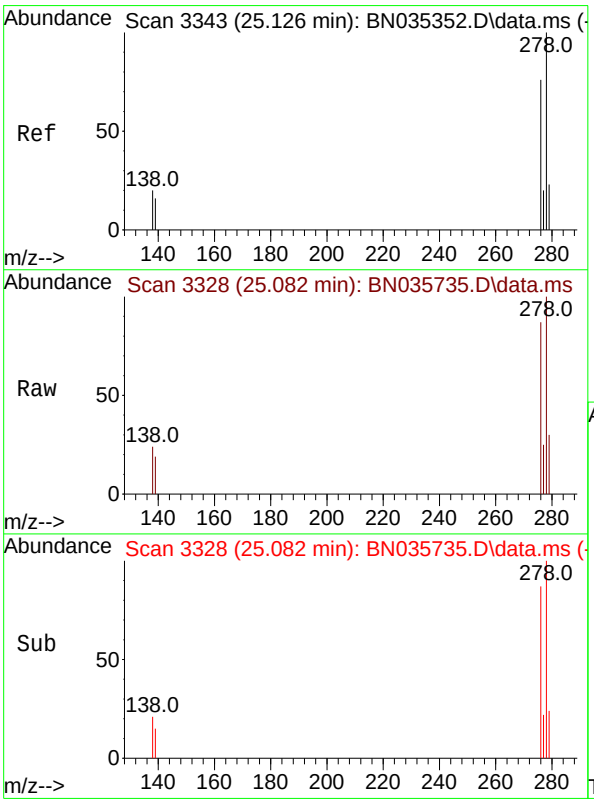
#39
Benzo(a)pyrene
Concen: 0.326 ng
RT: 22.950 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:252 Resp: 9310

Ion	Ratio	Lower	Upper
252	100		
253	30.1	20.2	30.4
125	18.2	10.9	16.3#

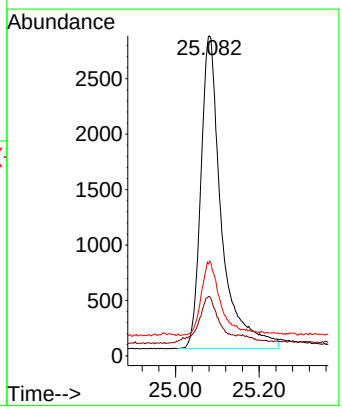


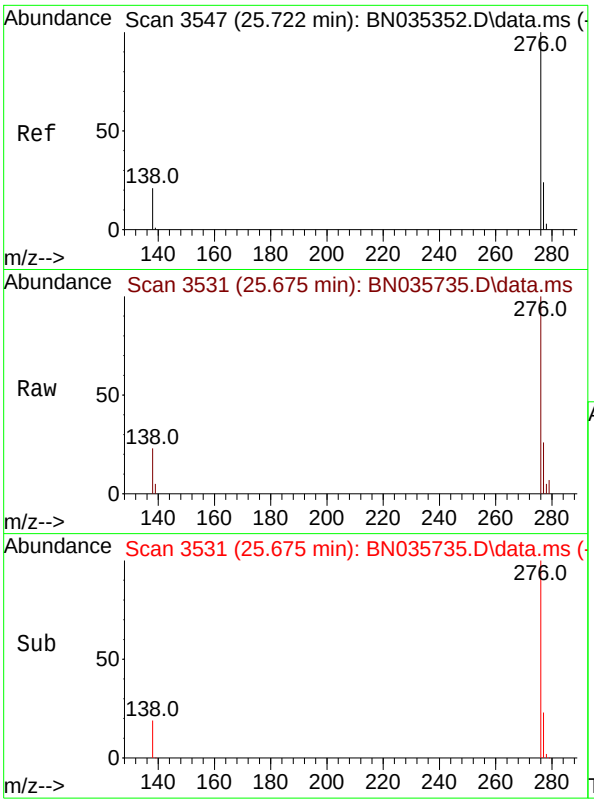


#40
Dibenzo(a,h)anthracene
Concen: 0.331 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:278 Resp: 9663

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.2	21.4
279	29.6	20.5	30.7



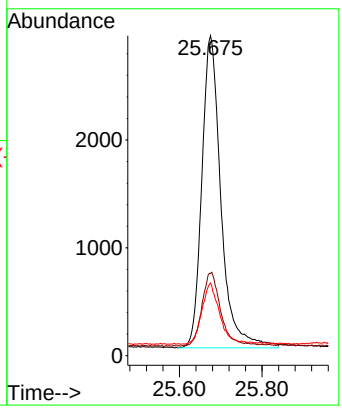


#41
Benzo(g,h,i)perylene
Concen: 0.305 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Tgt Ion:276 Resp: 9301

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	22.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035736.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : P5280-05MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Quant Time: Dec 20 12:27:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

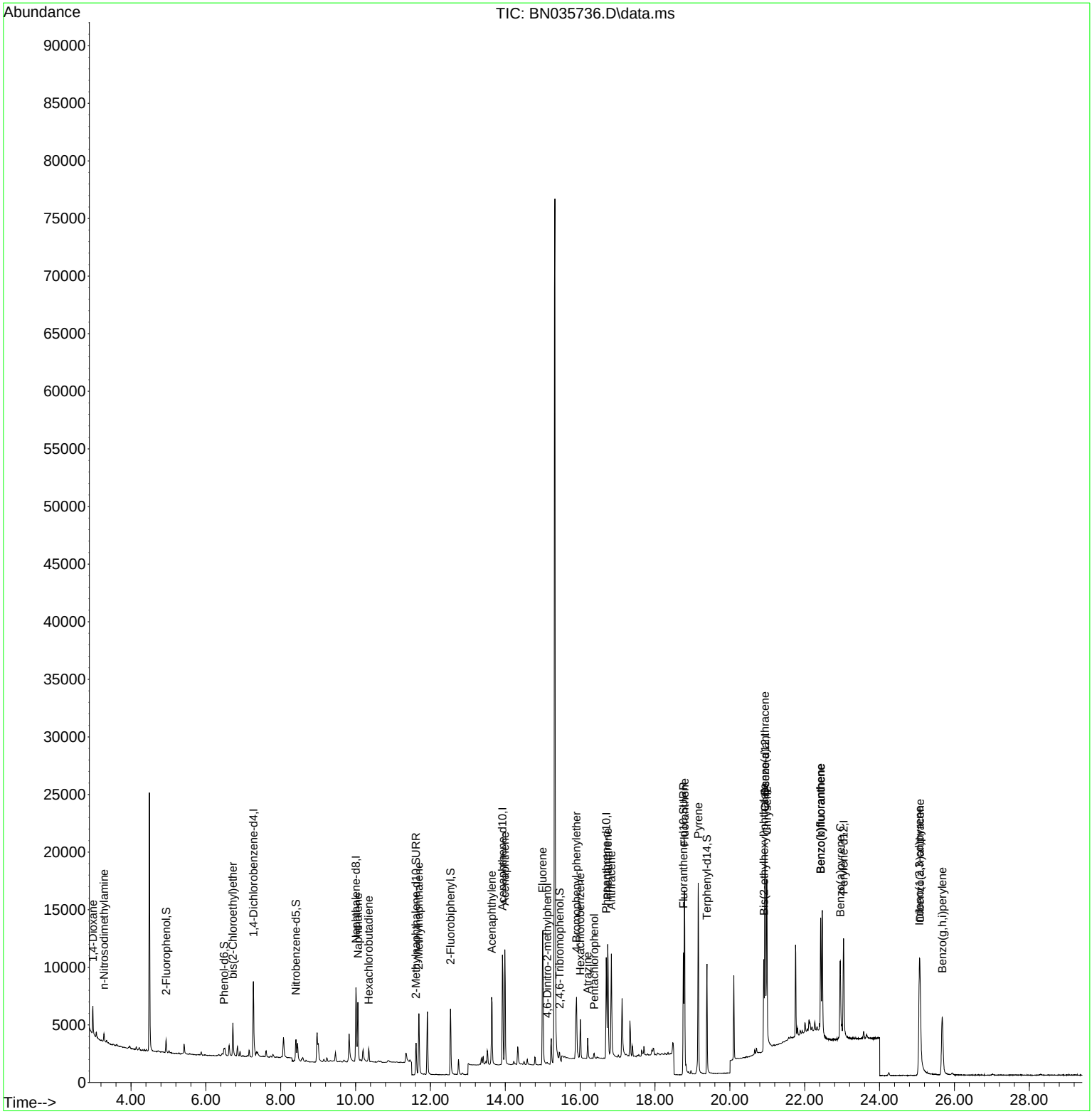
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	3357	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9243	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5773	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	12117	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	11029	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	11370	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	942	0.112	ng	0.00
5) Phenol-d6	6.484	99	701	0.069	ng	0.00
8) Nitrobenzene-d5	8.408	82	2329	0.413	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4592	0.317	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	754	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6026	0.276	ng	0.00
27) Fluoranthene-d10	18.757	212	13288	0.387	ng	0.00
31) Terphenyl-d14	19.388	244	10572	0.486	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1749	0.545	ng	# 90
3) n-Nitrosodimethylamine	3.278	42	394	0.147	ng	# 89
6) bis(2-Chloroethyl)ether	6.723	93	2407	0.284	ng	99
9) Naphthalene	10.063	128	6583	0.270	ng	99
10) Hexachlorobutadiene	10.351	225	924	0.164	ng	# 99
12) 2-Methylnaphthalene	11.692	142	4392	0.252	ng	98
16) Acenaphthylene	13.636	152	7346	0.303	ng	99
17) Acenaphthene	13.989	154	4688	0.291	ng	98
18) Fluorene	14.993	166	6437	0.279	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	141	0.118	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2466	0.348	ng	# 82
22) Hexachlorobenzene	16.003	284	2768	0.333	ng	95
23) Atrazine	16.202	200	1444	0.286	ng	96
24) Pentachlorophenol	16.375	266	361	0.100	ng	92
25) Phenanthrene	16.735	178	11782	0.354	ng	99
26) Anthracene	16.835	178	10189	0.338	ng	99
28) Fluoranthene	18.789	202	15192	0.339	ng	99
30) Pyrene	19.156	202	15901	0.391	ng	99
32) Benzo(a)anthracene	20.938	228	13511	0.350	ng	98
33) Chrysene	20.991	228	15009	0.377	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7279	0.478	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.061	276	14877	0.335	ng	98
37) Benzo(b)fluoranthene	22.427	252	21467	0.516	ng	97
38) Benzo(k)fluoranthene	22.427	252	21467	0.524	ng	97
39) Benzo(a)pyrene	22.950	252	11175	0.326	ng	93
40) Dibenzo(a,h)anthracene	25.079	278	11466	0.327	ng	97
41) Benzo(g,h,i)perylene	25.675	276	11017	0.301	ng	99

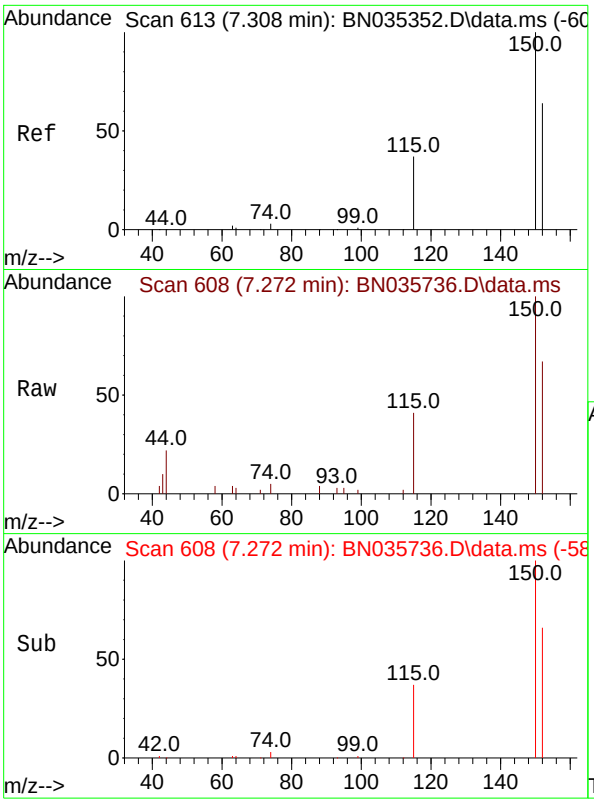
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035736.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : P5280-05MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Quant Time: Dec 20 12:27:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



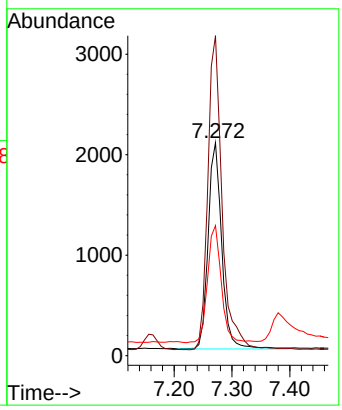


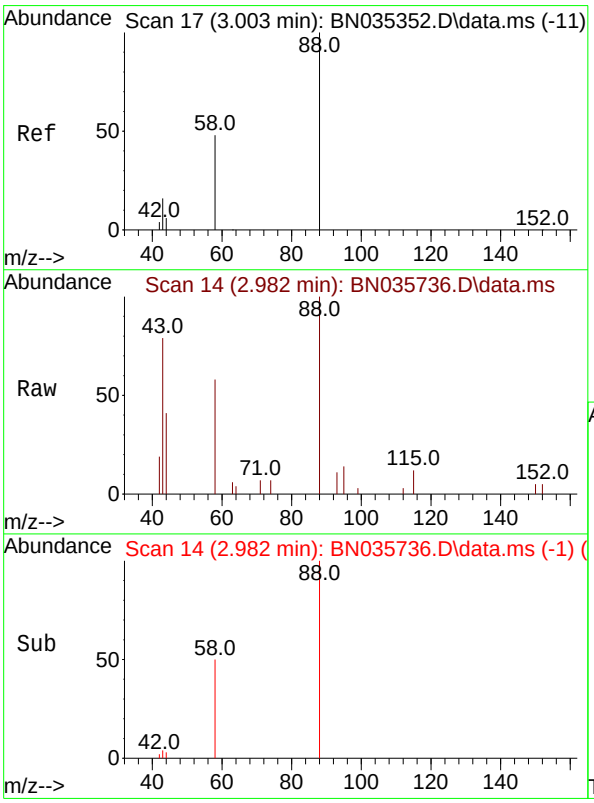
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:152 Resp: 3357

Ion	Ratio	Lower	Upper
152	100		
150	150.3	124.0	186.0
115	61.1	49.6	74.4

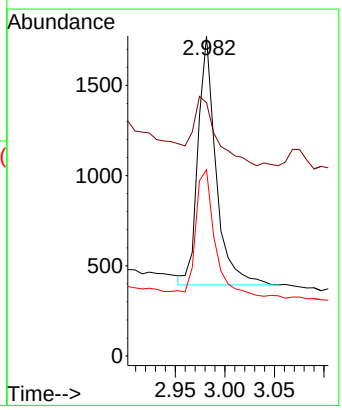


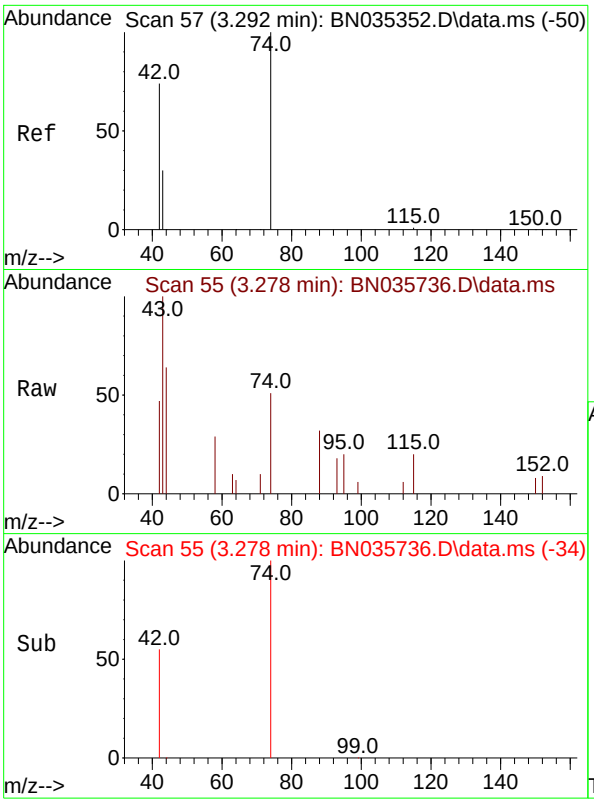


#2
1,4-Dioxane
Concen: 0.545 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 88 Resp: 1749

Ion	Ratio	Lower	Upper
88	100		
43	34.9	17.2	25.8#
58	53.4	44.5	66.7



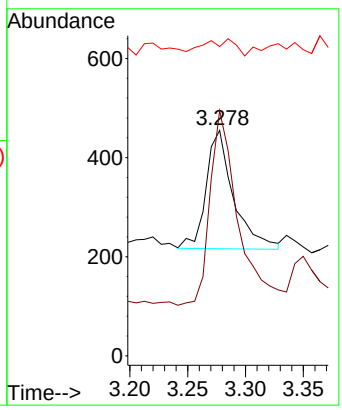


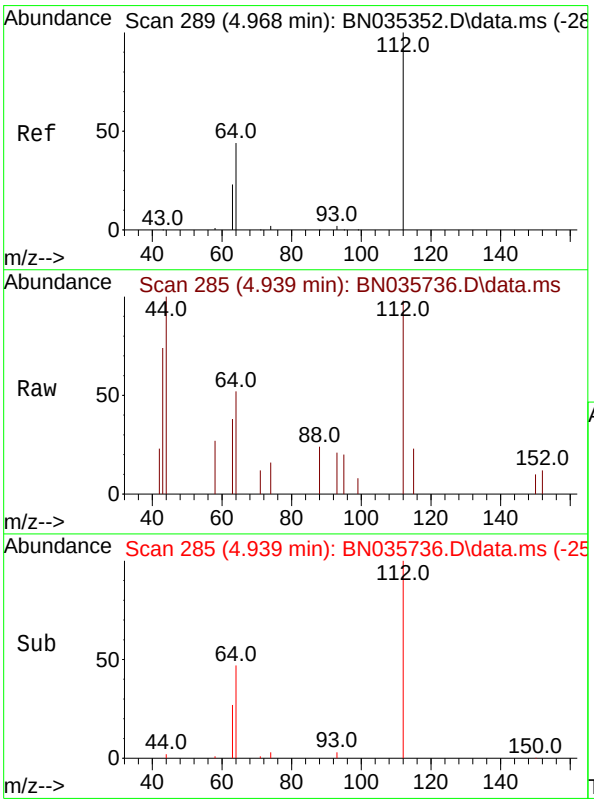
#3
n-Nitrosodimethylamine
Concen: 0.147 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion: 42 Resp: 394

Ion	Ratio	Lower	Upper
42	100		
74	169.8	124.9	187.3
44	16.0	2.2	3.4#

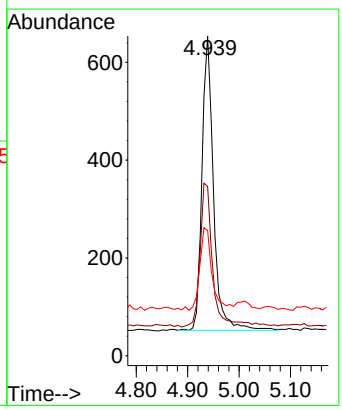


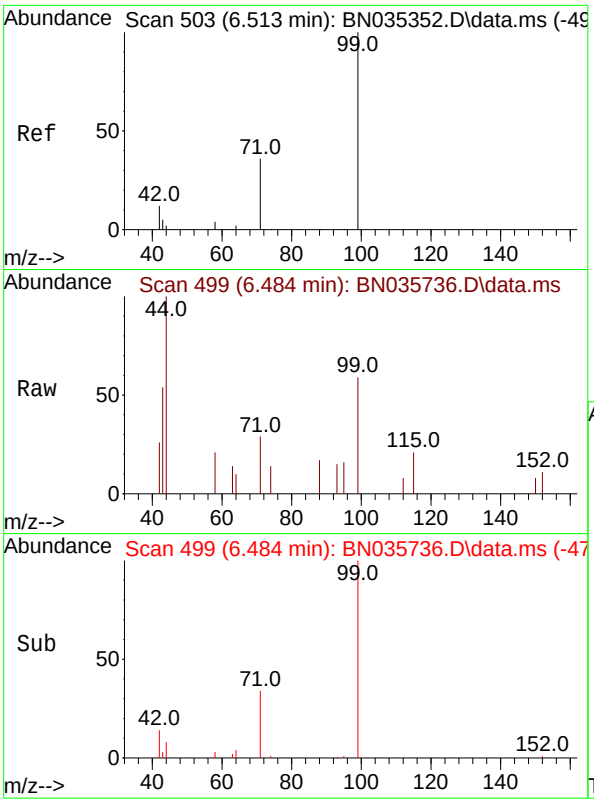


#4
2-Fluorophenol
Concen: 0.112 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:112 Resp: 942

Ion	Ratio	Lower	Upper
112	100		
64	54.1	39.8	59.8
63	29.4	21.0	31.6



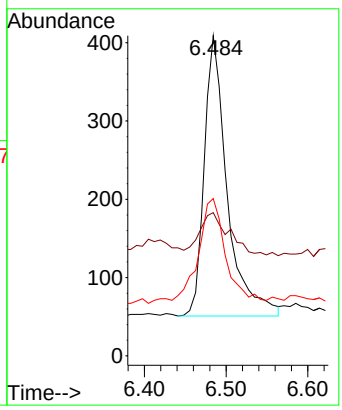


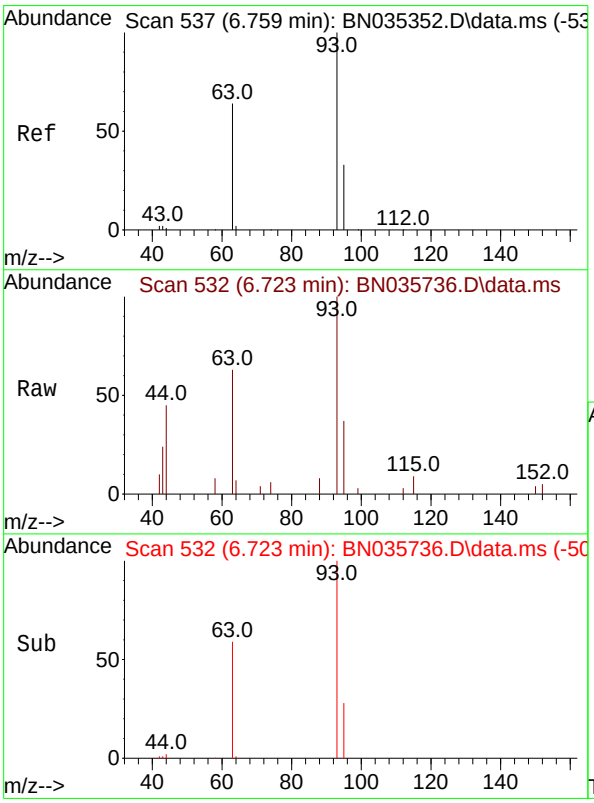
#5
Phenol-d6
Concen: 0.069 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion: 99 Resp: 701

Ion	Ratio	Lower	Upper
99	100		
42	20.0	11.4	17.2#
71	45.9	29.3	43.9#

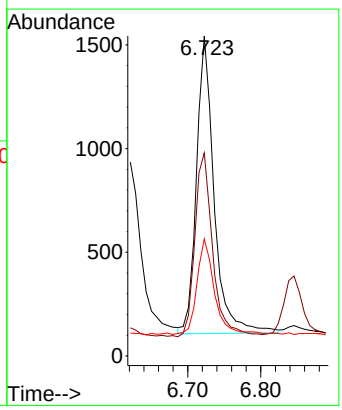


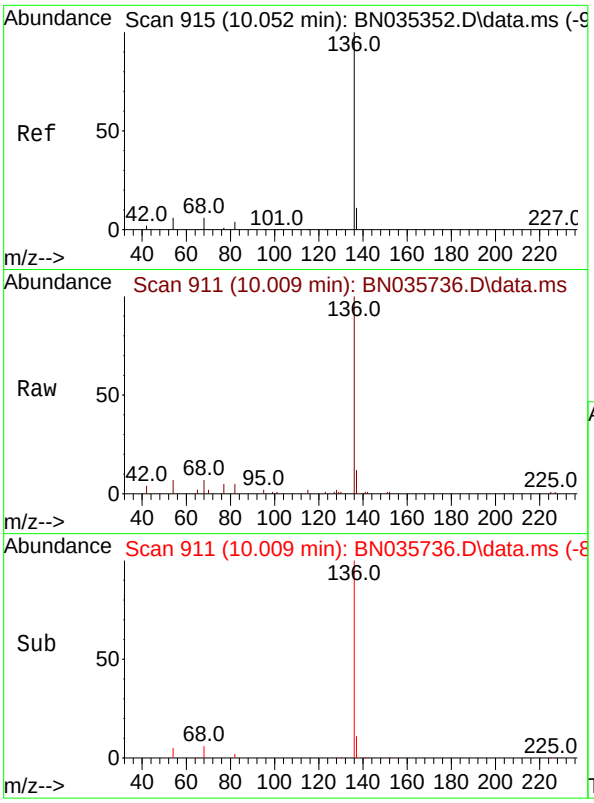


#6
bis(2-Chloroethyl)ether
Concen: 0.284 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 93 Resp: 2407

Ion	Ratio	Lower	Upper
93	100		
63	61.9	50.4	75.6
95	31.7	25.7	38.5



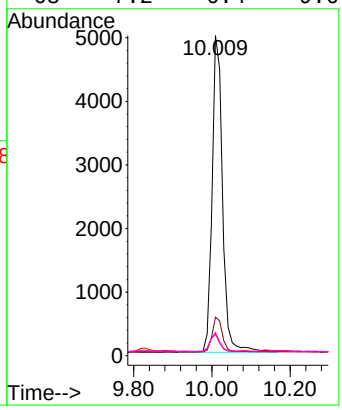


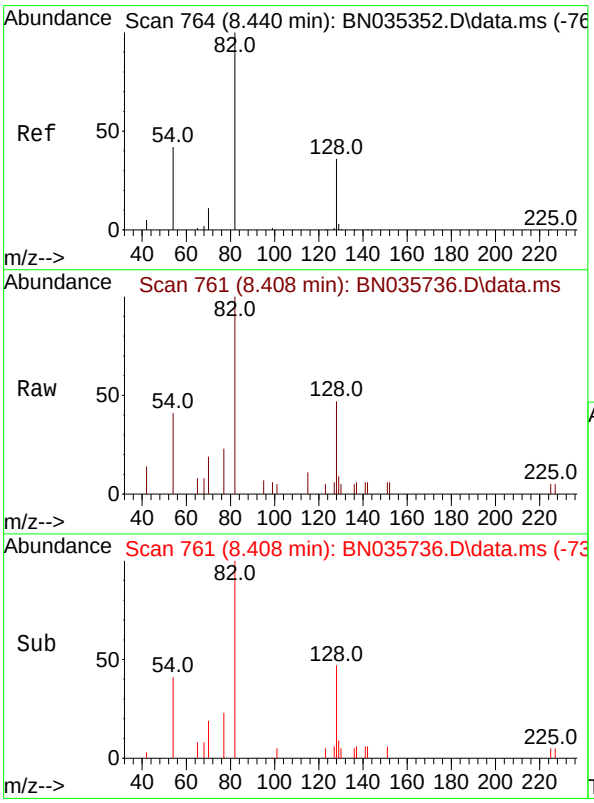
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:136 Resp: 9243

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.7	6.1	9.1
68	7.2	6.4	9.6

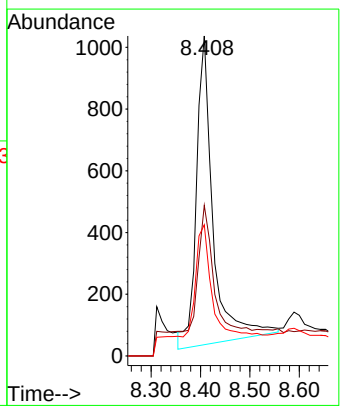


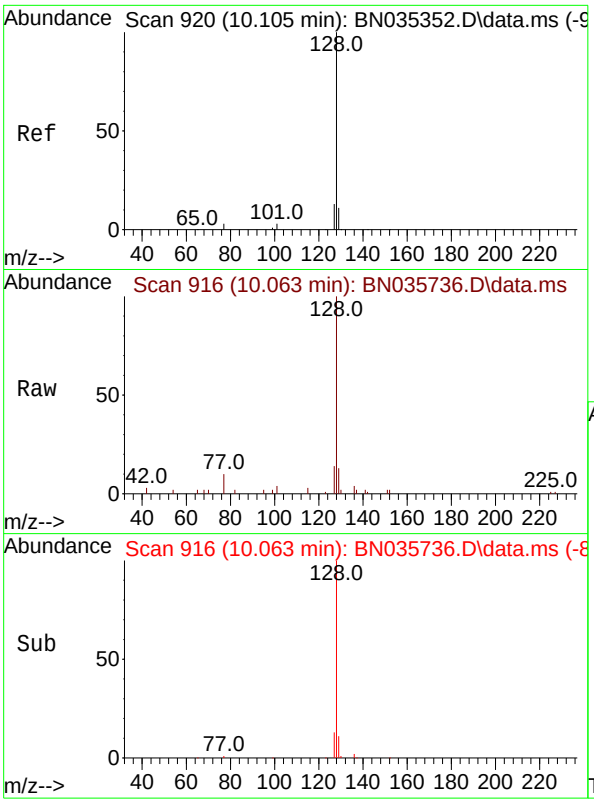


#8
Nitrobenzene-d5
Concen: 0.413 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 82 Resp: 2329

Ion	Ratio	Lower	Upper
82	100		
128	47.1	33.4	50.0
54	41.0	36.7	55.1



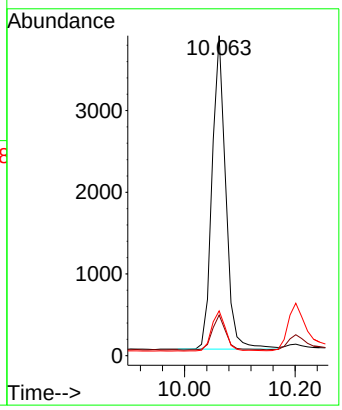


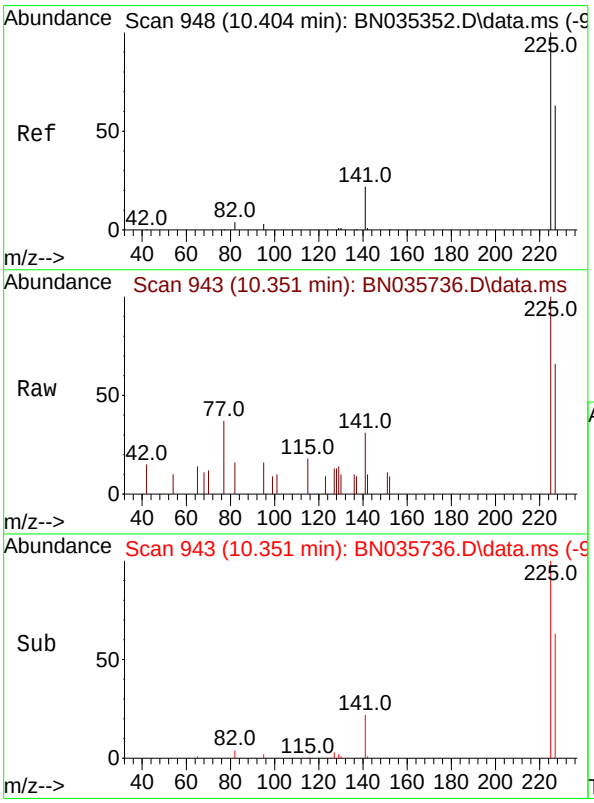
#9
Naphthalene
Concen: 0.270 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:128 Resp: 6583

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	14.0	11.4	17.2

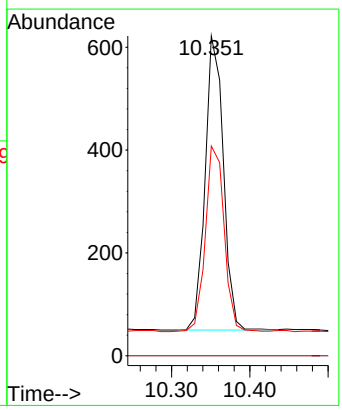


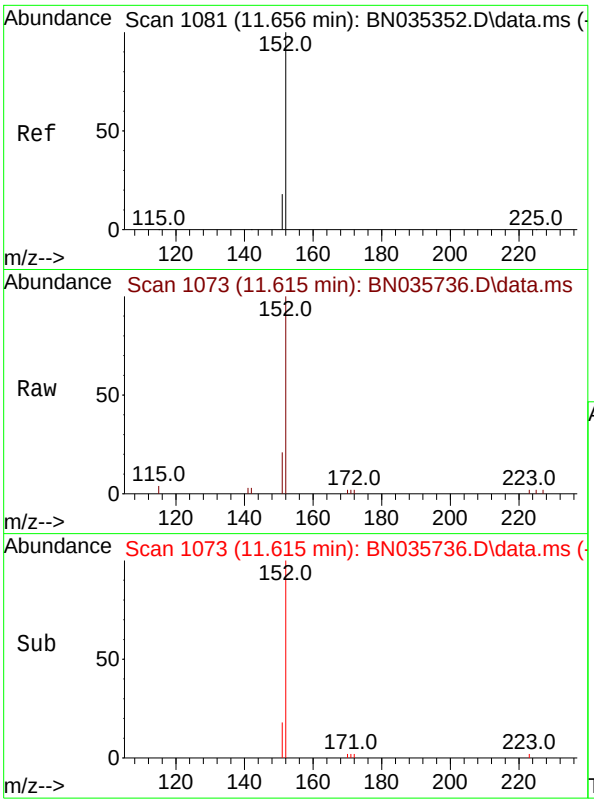


#10
Hexachlorobutadiene
Concen: 0.164 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:225 Resp: 924

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	51.3	76.9



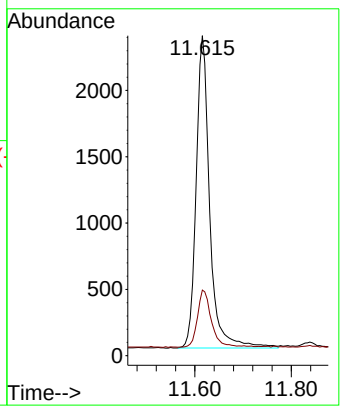


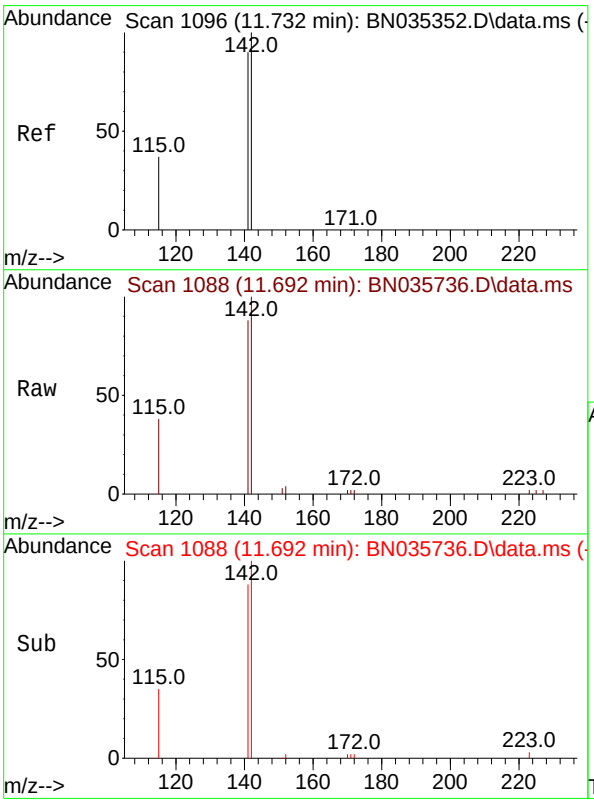
#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 11.615 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:152 Resp: 4592

Ion	Ratio	Lower	Upper
152	100		
151	19.0	16.6	25.0

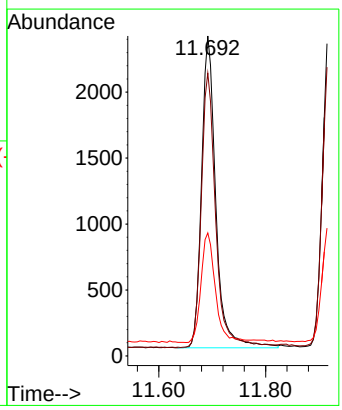


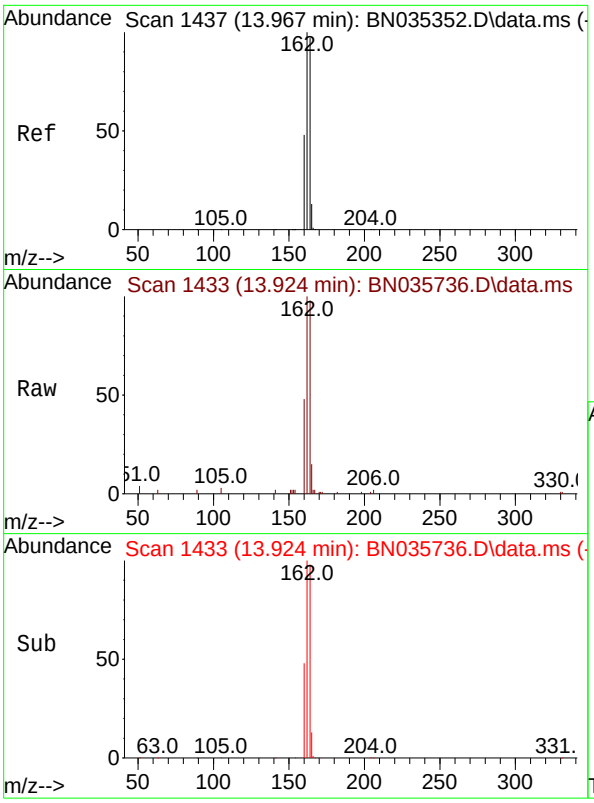


#12
2-Methylnaphthalene
Concen: 0.252 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:142 Resp: 4392

Ion	Ratio	Lower	Upper
142	100		
141	88.4	72.2	108.4
115	38.5	31.4	47.0



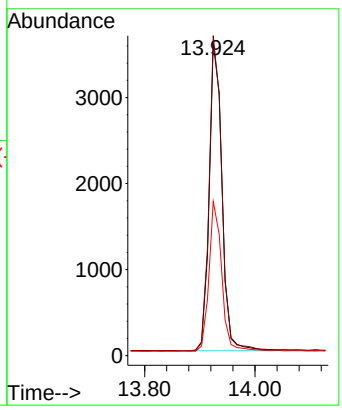


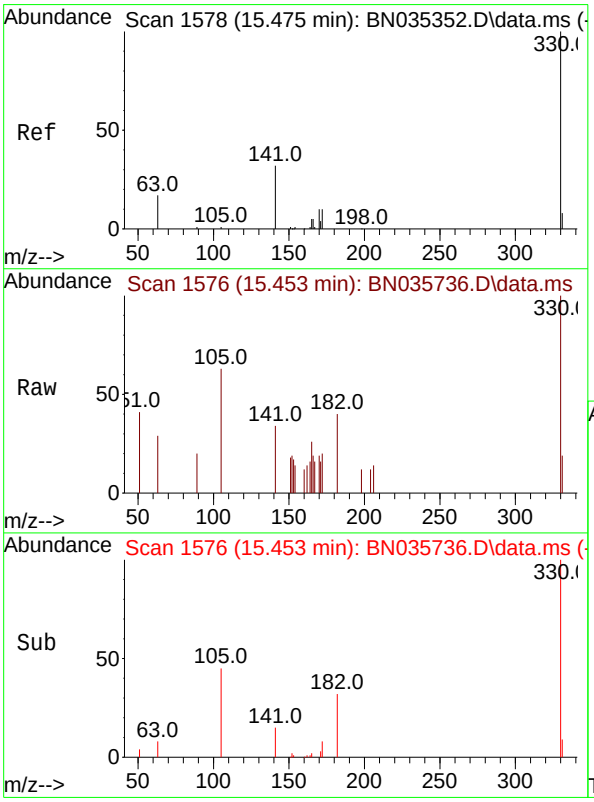
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:164 Resp: 5773

Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.2	123.2
160	49.3	40.1	60.1

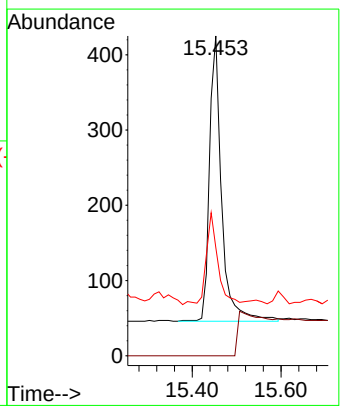


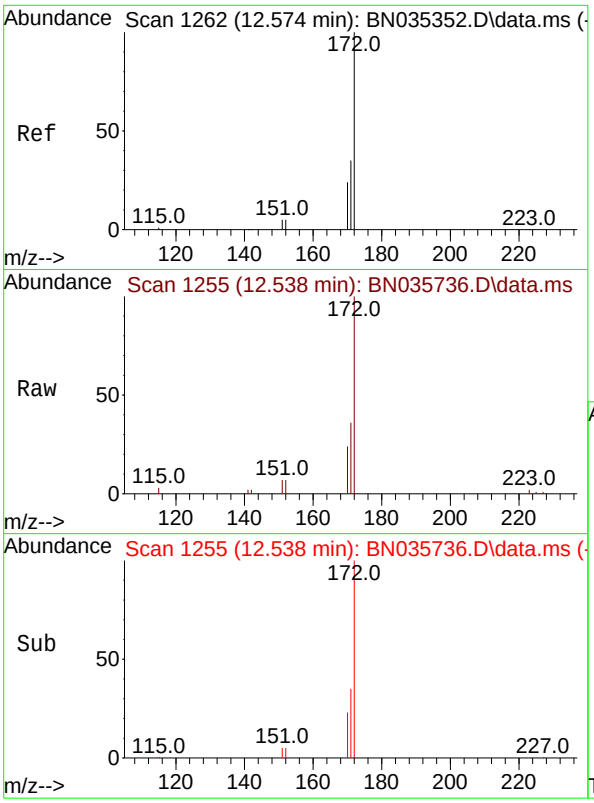


#14
2,4,6-Tribromophenol
Concen: 0.184 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:330 Resp: 754

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.5	26.6	40.0



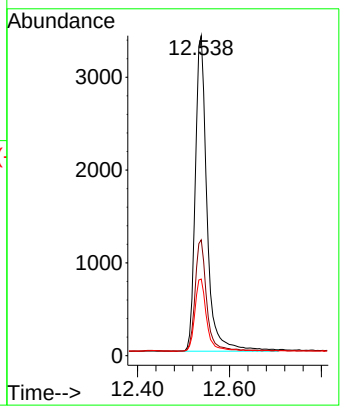


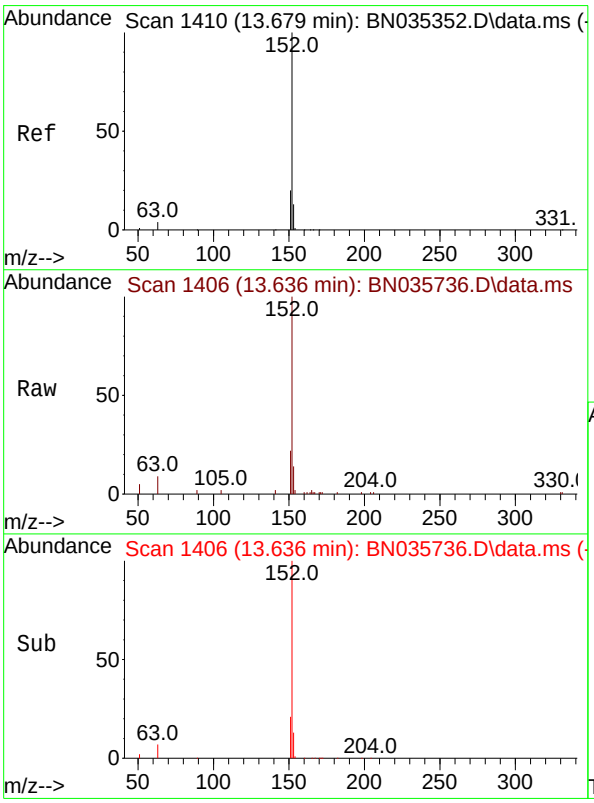
#15
2-Fluorobiphenyl
Concen: 0.276 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:172 Resp: 6026

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.0	19.8	29.8

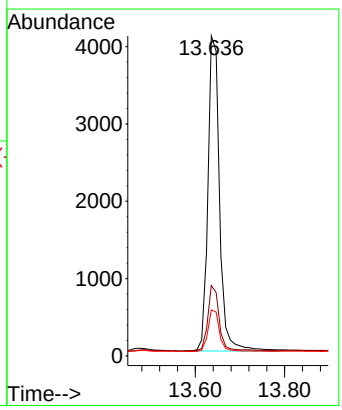


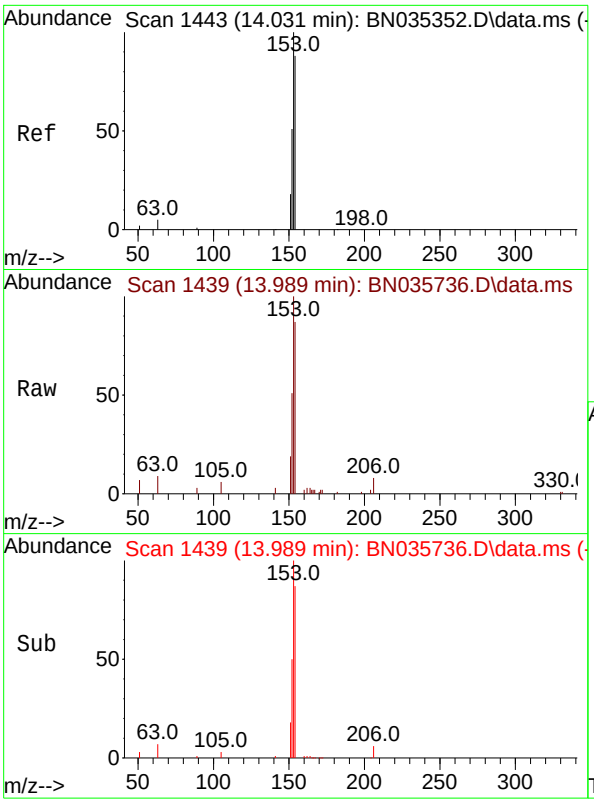


#16
Acenaphthylene
Concen: 0.303 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:152 Resp: 7346

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2
153	13.0	10.4	15.6



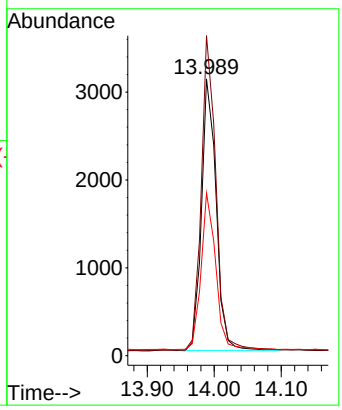


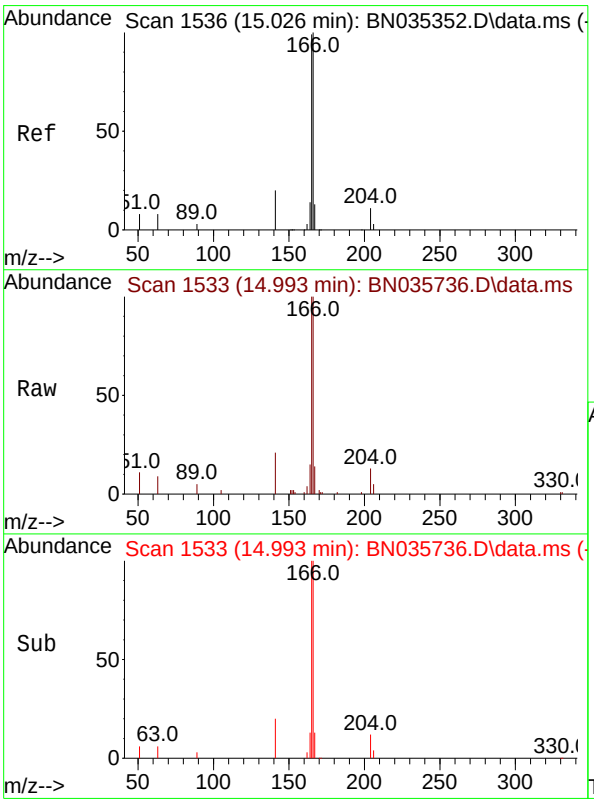
#17
Acenaphthene
Concen: 0.291 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:154 Resp: 4688

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	58.3	49.0	73.6

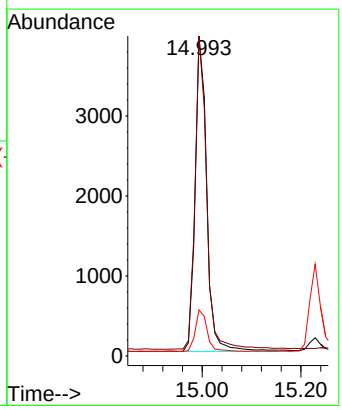


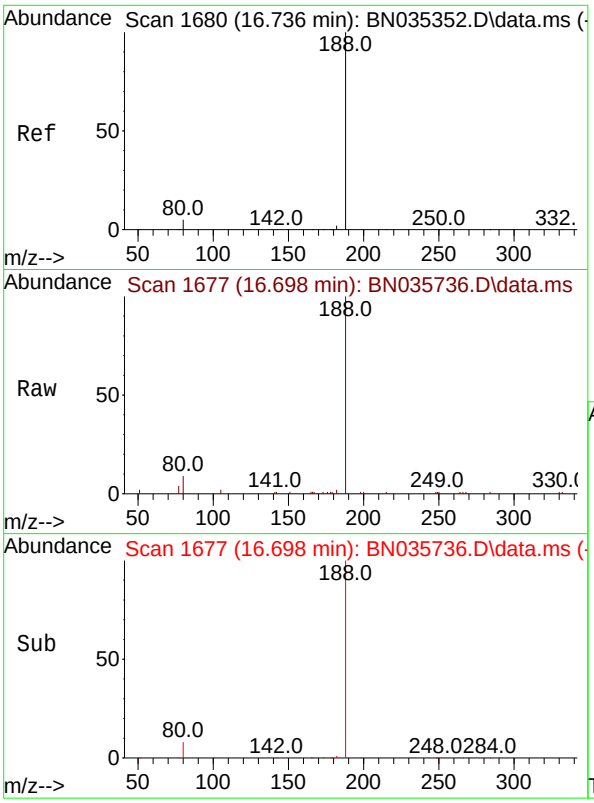


#18
Fluorene
Concen: 0.279 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:166 Resp: 6437

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.4	10.8	16.2



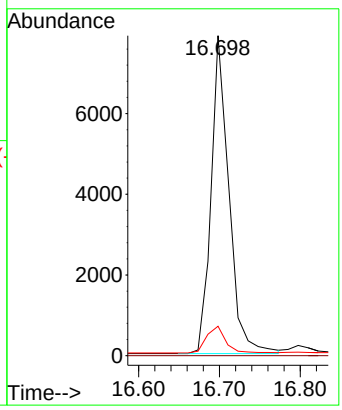


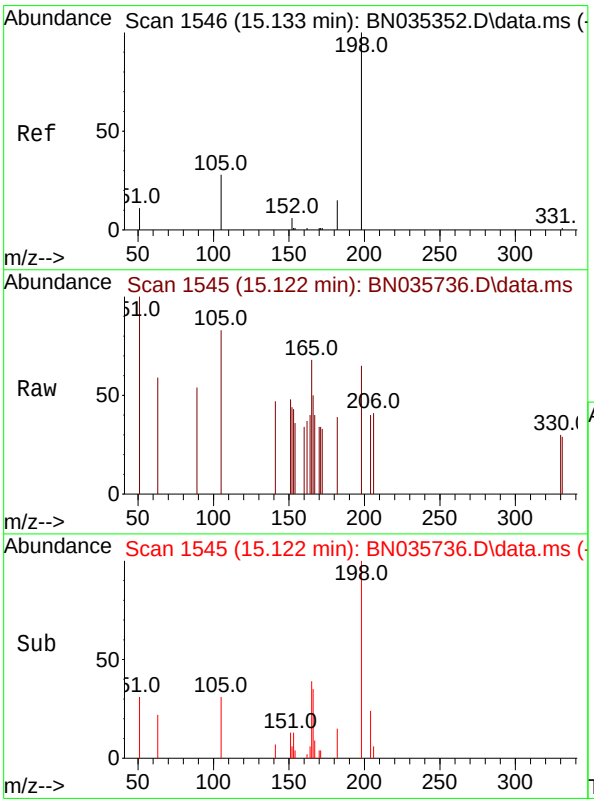
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:188 Resp: 12117

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#

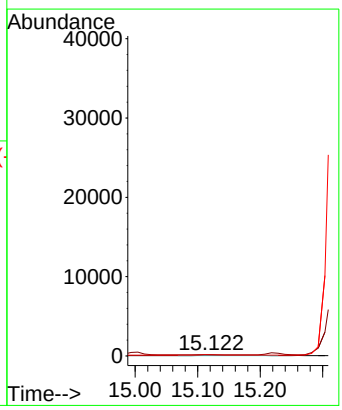


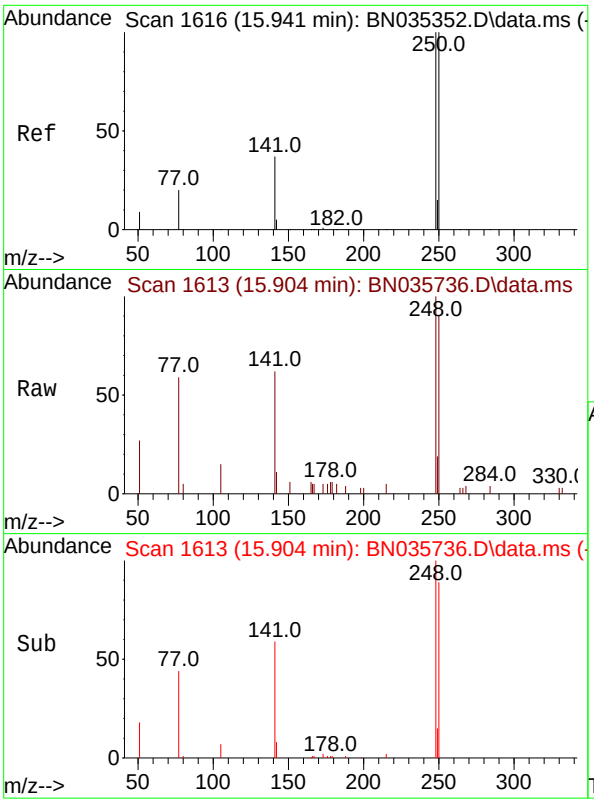


#20
4,6-Dinitro-2-methylphenol
Concen: 0.118 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:198 Resp: 141

Ion	Ratio	Lower	Upper
198	100		
51	153.5	46.5	69.7#
105	127.7	45.3	67.9#



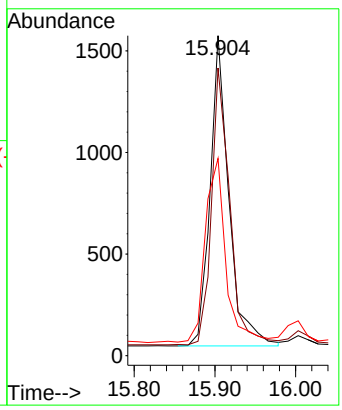


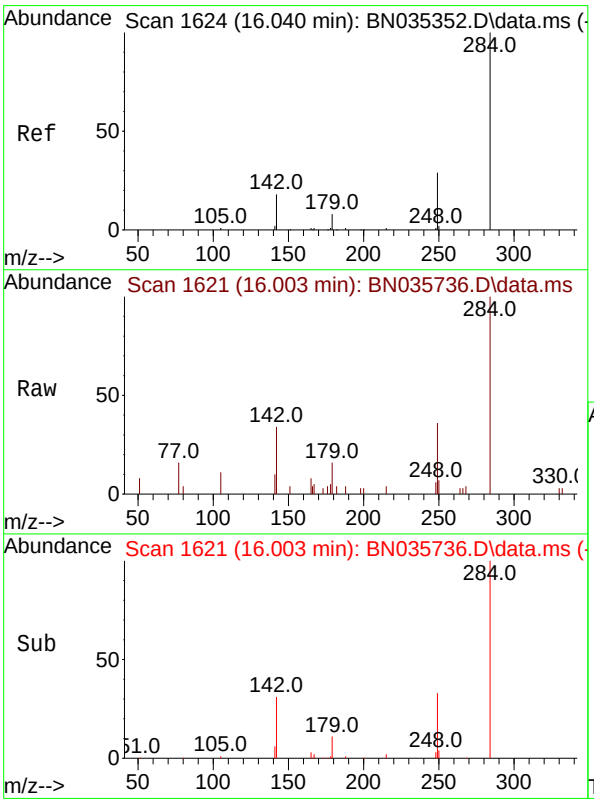
#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:248 Resp: 2466

Ion	Ratio	Lower	Upper
248	100		
250	89.9	80.6	120.8
141	61.7	31.5	47.3#

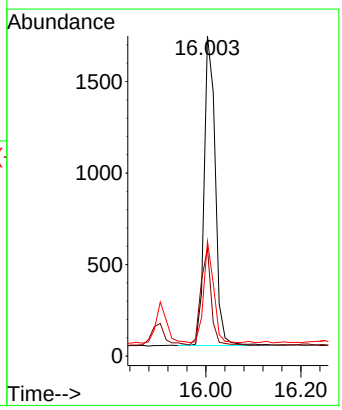


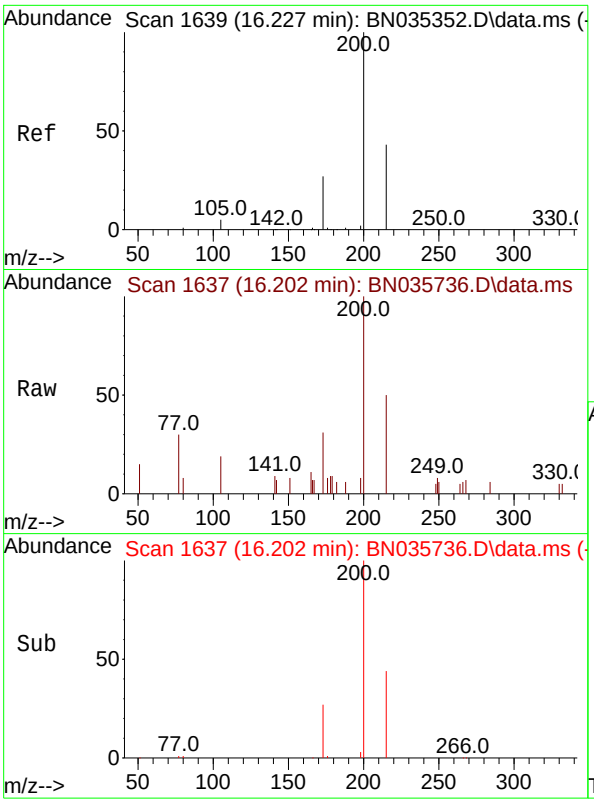


#22
Hexachlorobenzene
Concen: 0.333 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:284 Resp: 2768

Ion	Ratio	Lower	Upper
284	100		
142	29.3	26.7	40.1
249	29.0	24.6	36.8



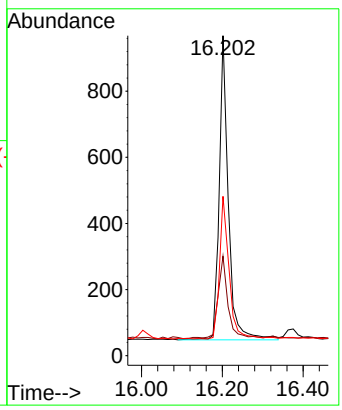


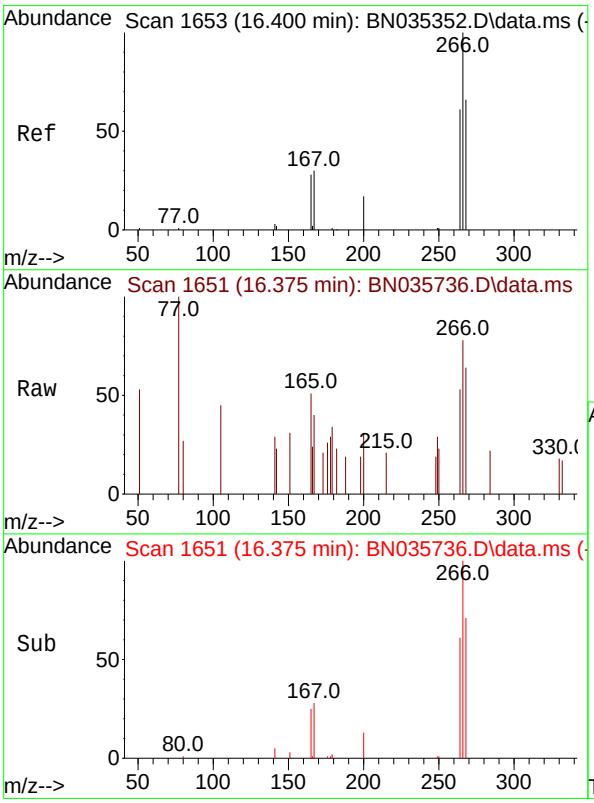
#23
Atrazine
Concen: 0.286 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:200 Resp: 1444

Ion	Ratio	Lower	Upper
200	100		
173	31.1	24.1	36.1
215	49.8	36.9	55.3

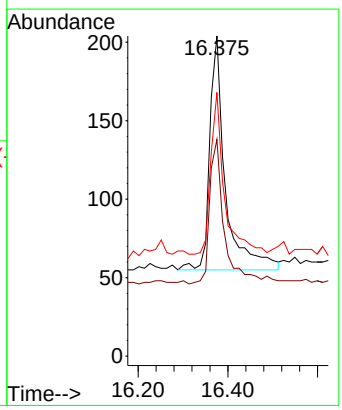


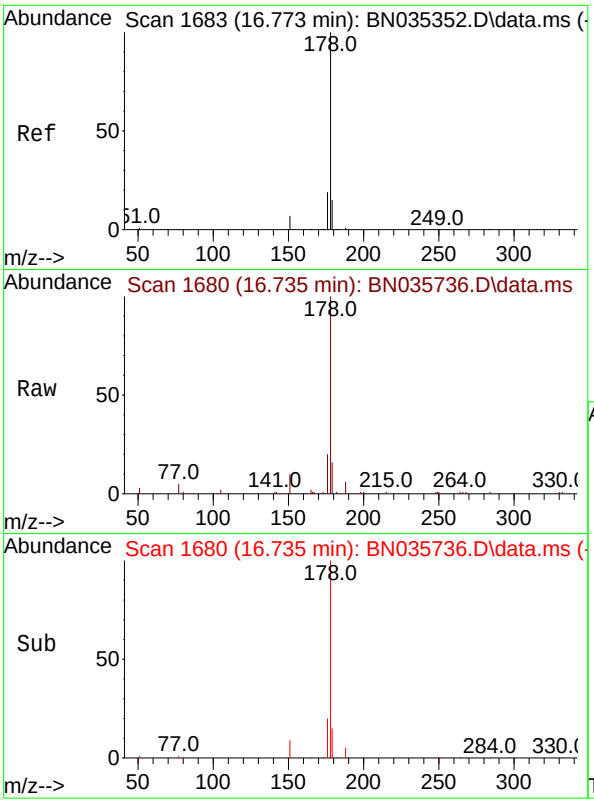


#24
Pentachlorophenol
Concen: 0.100 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:266 Resp: 361

Ion	Ratio	Lower	Upper
266	100		
264	58.7	42.3	63.5
268	59.8	43.3	64.9



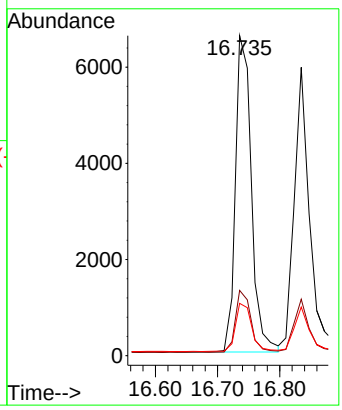


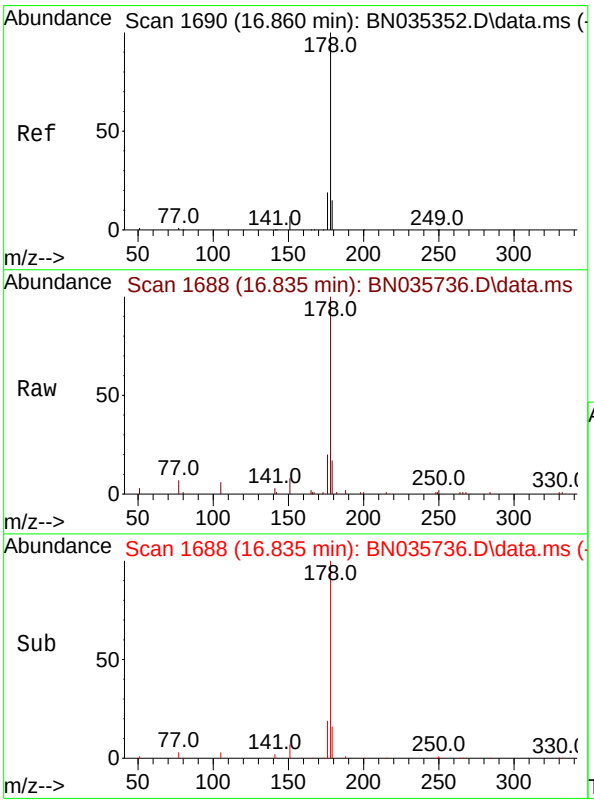
#25
Phenanthrene
Concen: 0.354 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:178 Resp: 11782

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.6	12.3	18.5

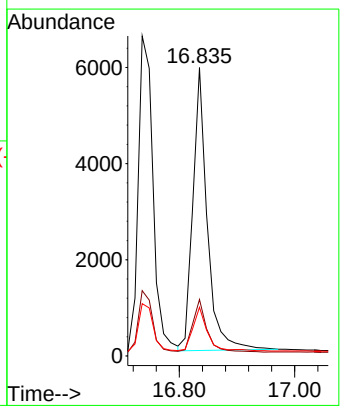


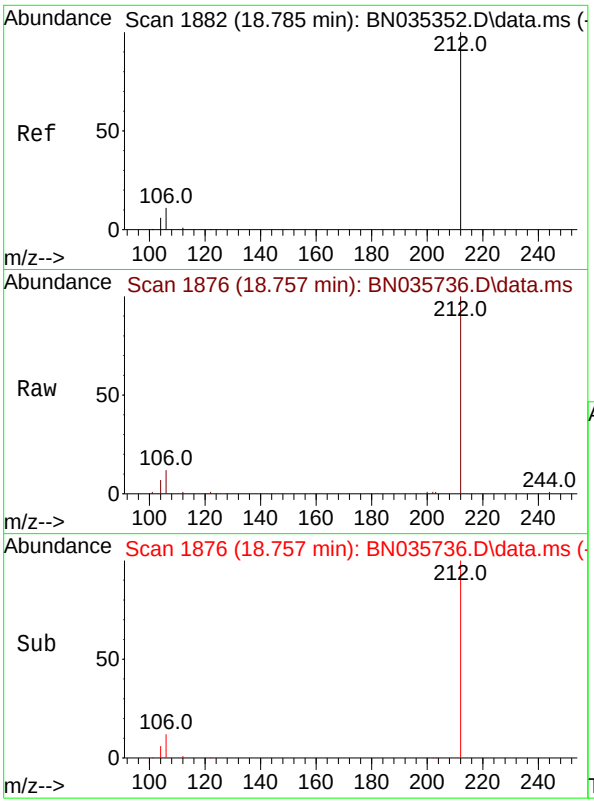


#26
Anthracene
Concen: 0.338 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:178 Resp: 10189

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.9	12.6	18.8



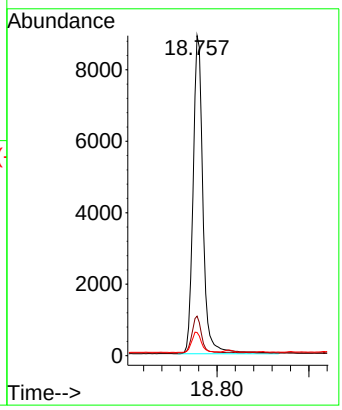


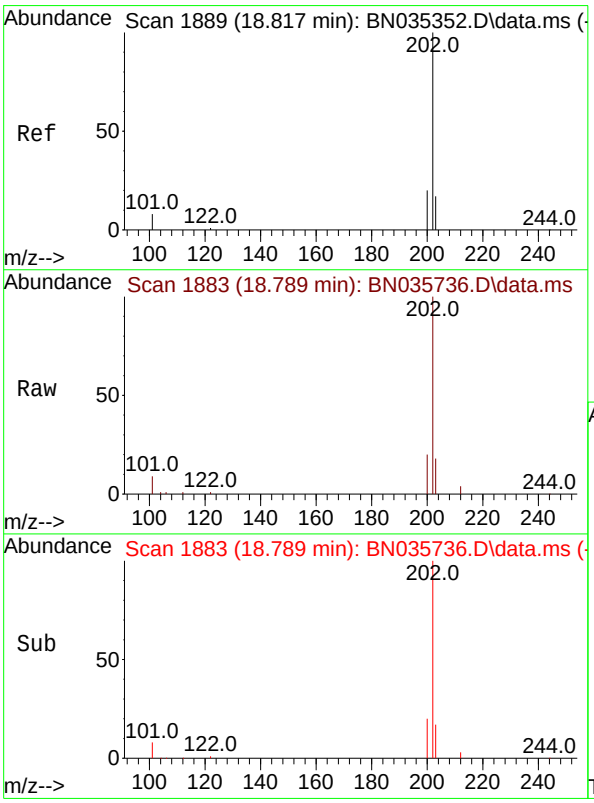
#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:212 Resp: 13288

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.3	5.3	7.9

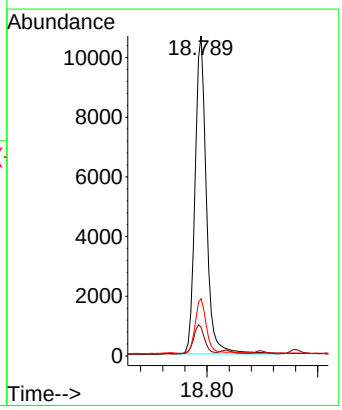


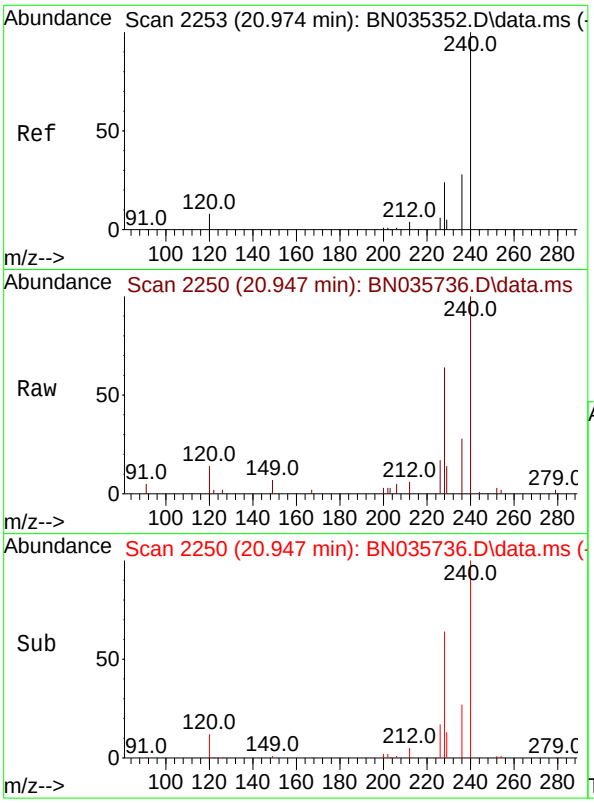


#28
Fluoranthene
Concen: 0.339 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:202 Resp: 15192

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	16.7	13.7	20.5



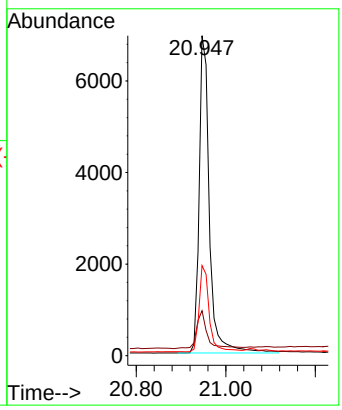


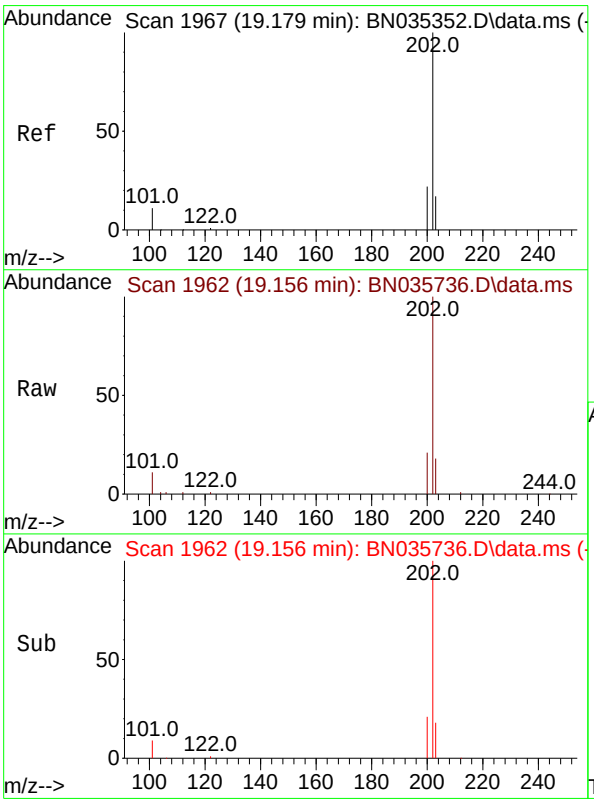
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:240 Resp: 11029

Ion	Ratio	Lower	Upper
240	100		
120	14.0	7.9	11.9#
236	28.1	22.9	34.3

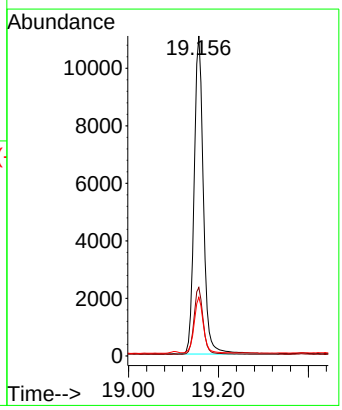


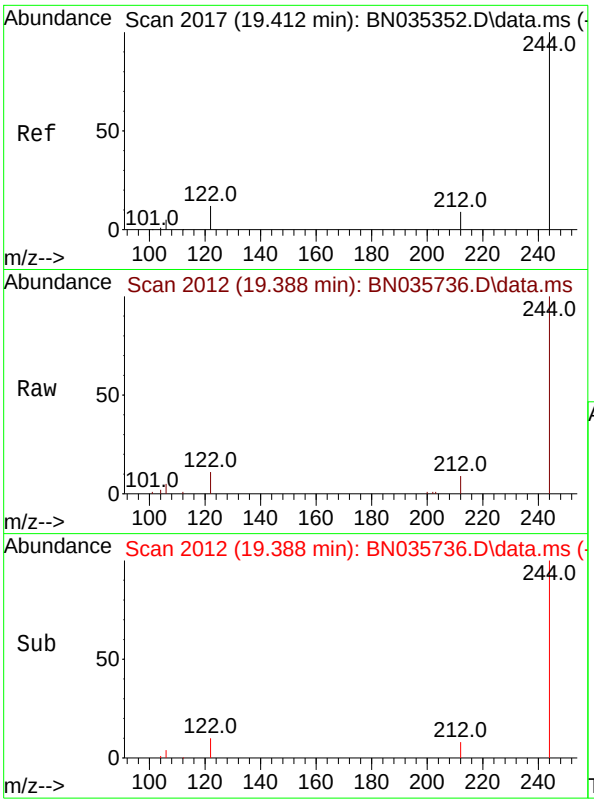


#30
Pyrene
Concen: 0.391 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:202 Resp: 15901

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.2	14.3	21.5



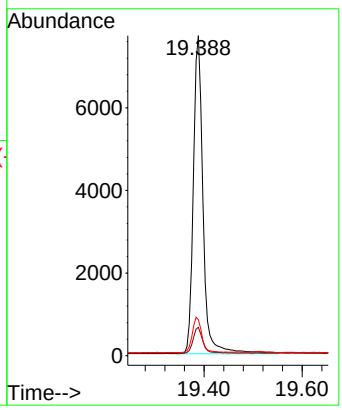


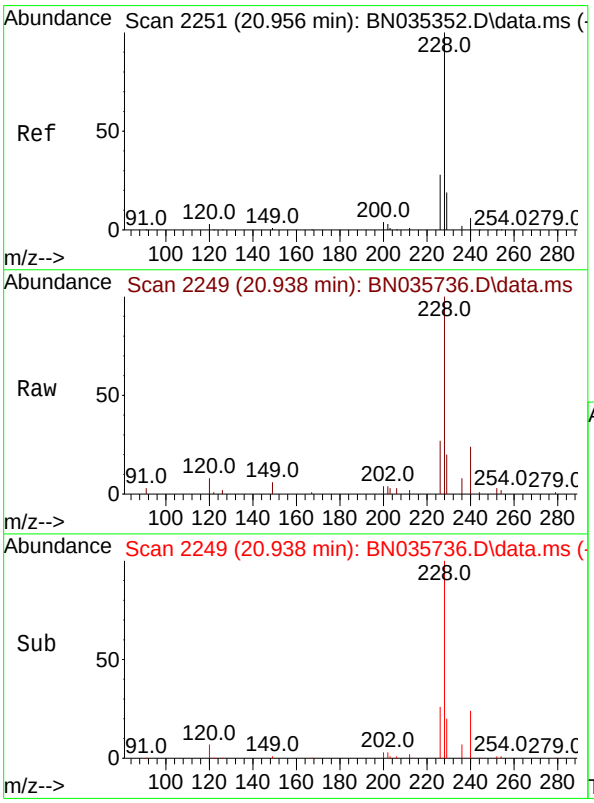
#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:244 Resp: 10572

Ion	Ratio	Lower	Upper
244	100		
212	8.9	8.1	12.1
122	11.3	10.3	15.5

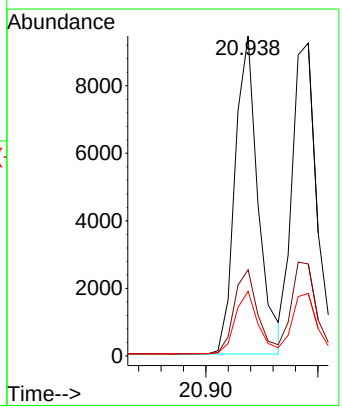


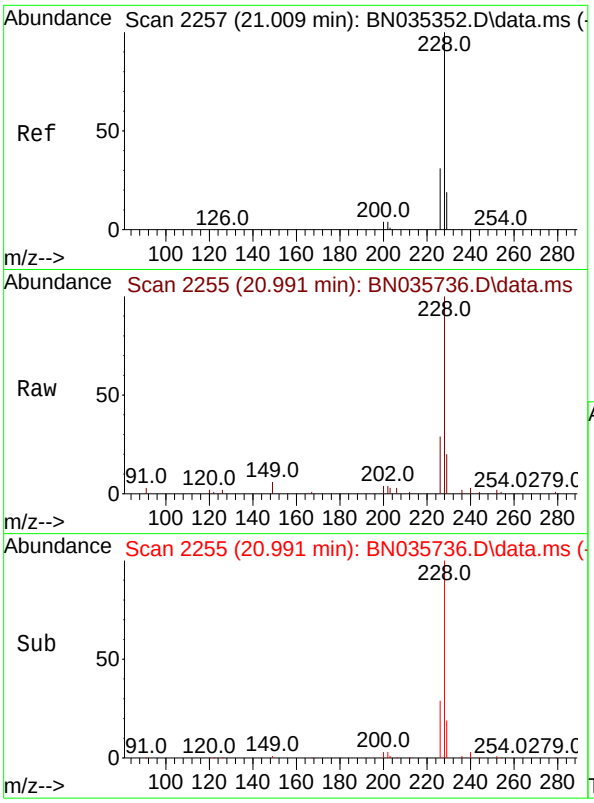


#32
Benzo(a)anthracene
Concen: 0.350 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:228 Resp: 13511

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.5	33.7
229	20.2	15.8	23.8



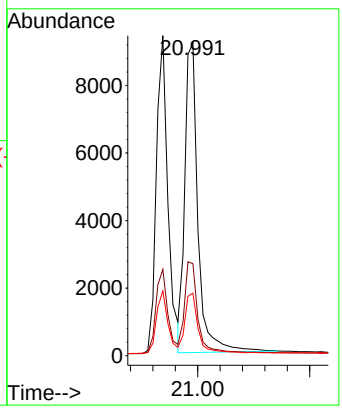


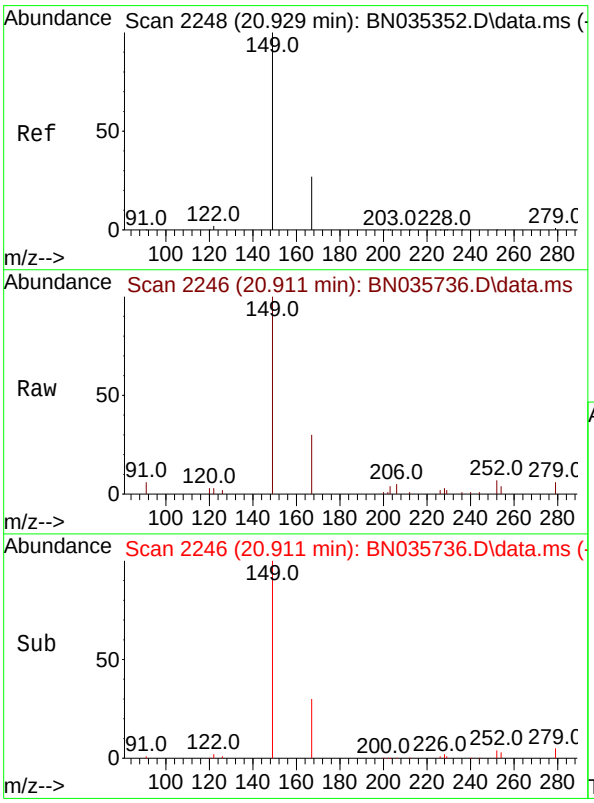
#33
Chrysene
Concen: 0.377 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:228 Resp: 15009

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.6	37.0
229	20.0	15.9	23.9

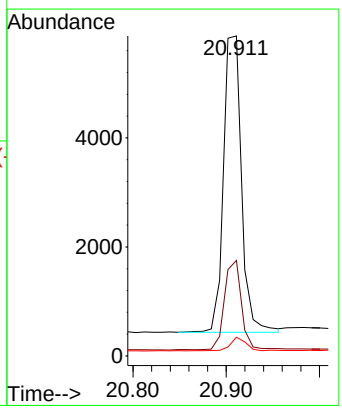


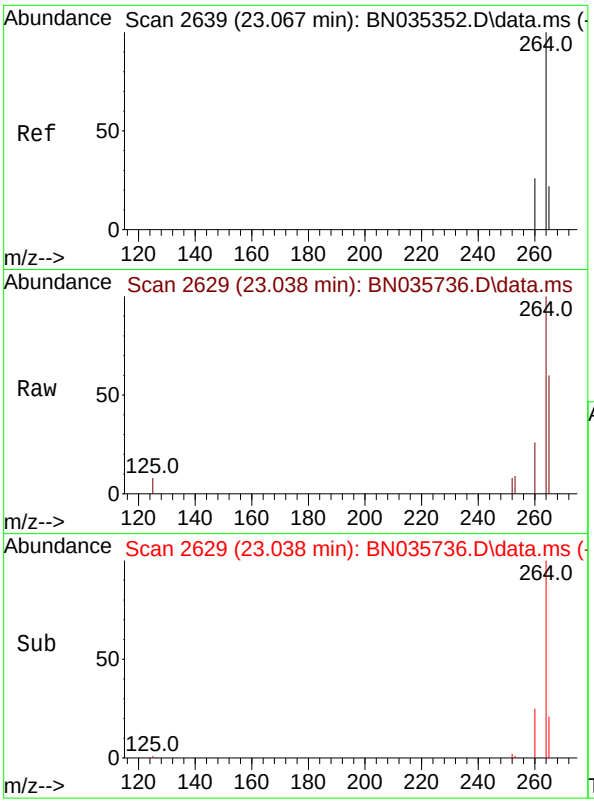


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.478 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:149 Resp: 7279

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.2	2.7	4.1#



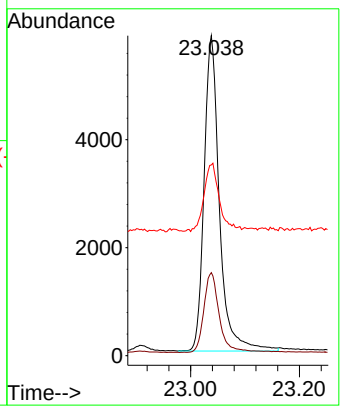


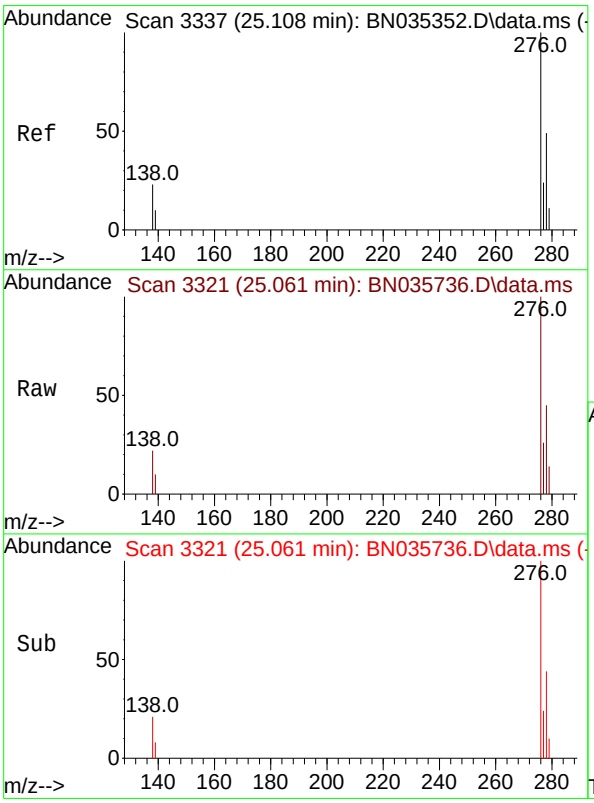
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:264 Resp: 11370

Ion	Ratio	Lower	Upper
264	100		
260	25.9	21.4	32.2
265	59.6	40.2	60.4

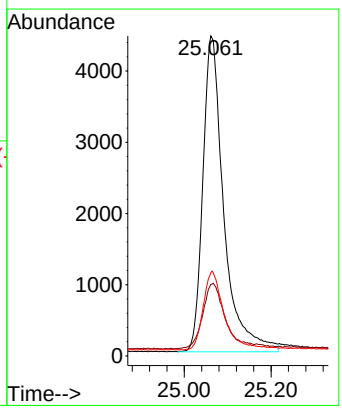


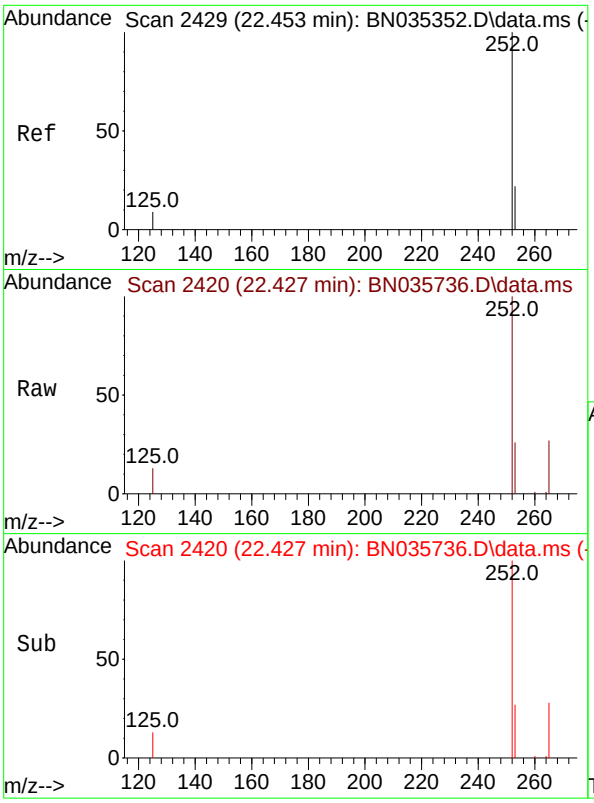


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:276 Resp: 14877

Ion	Ratio	Lower	Upper
276	100		
138	22.3	19.4	29.0
277	24.7	19.8	29.6



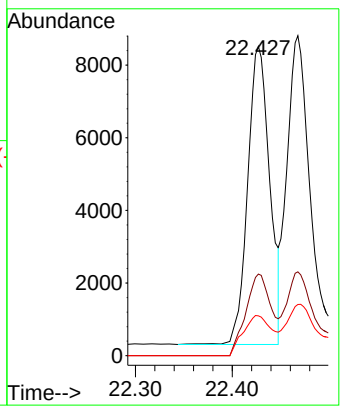


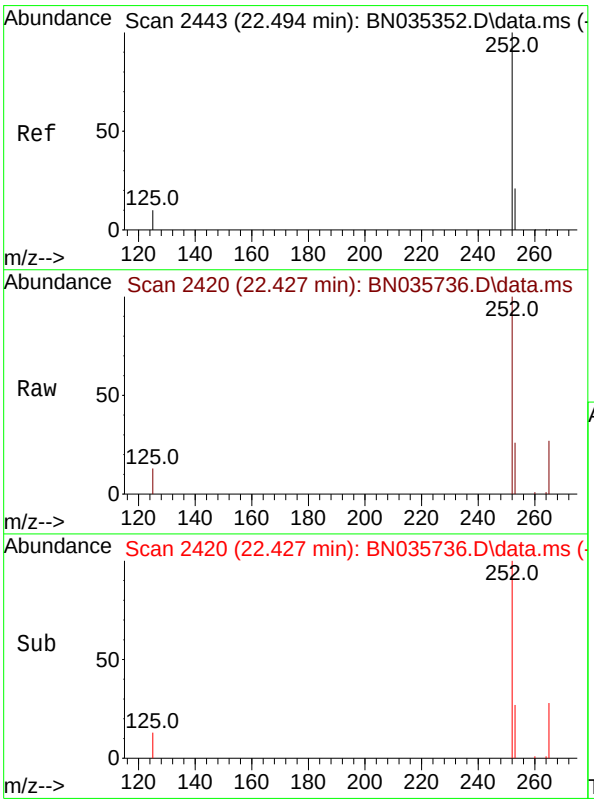
#37
Benzo(b)fluoranthene
Concen: 0.516 ng
RT: 22.427 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:252 Resp: 21467

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	12.9	9.6	14.4

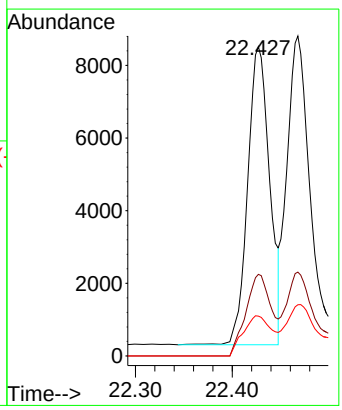


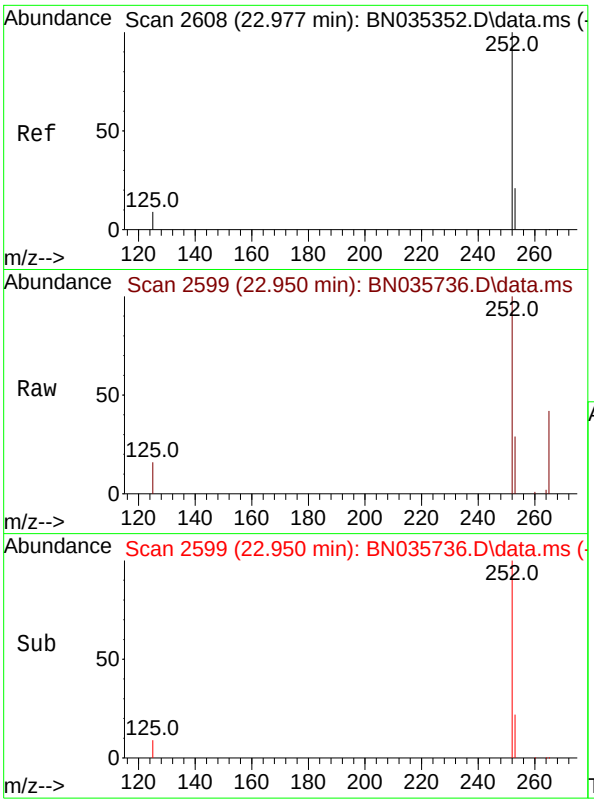


#38
Benzo(k)fluoranthene
Concen: 0.524 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:252 Resp: 21467

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.5	29.3
125	12.9	10.2	15.4



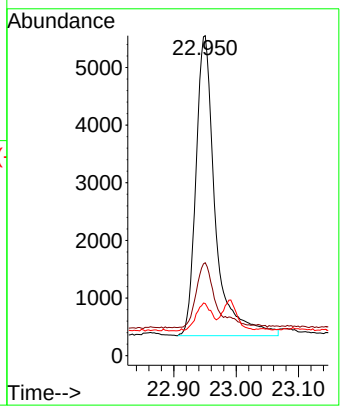


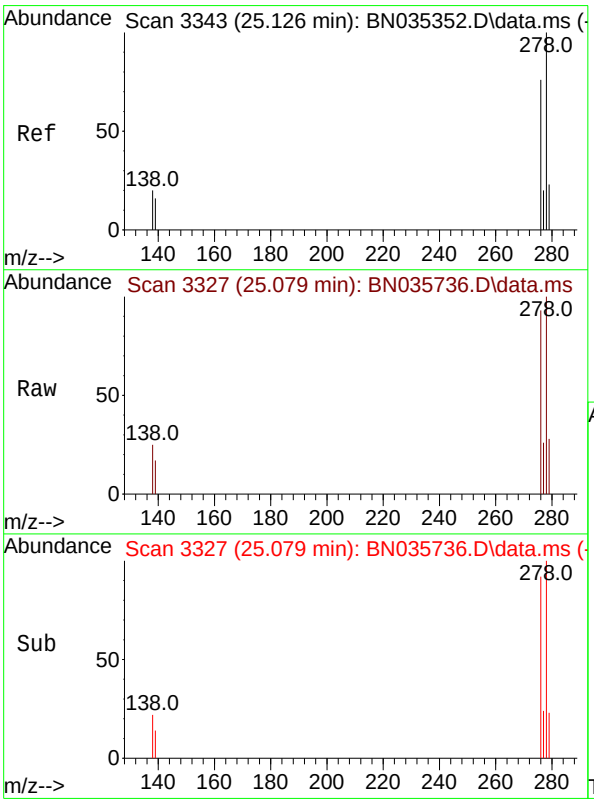
#39
Benzo(a)pyrene
Concen: 0.326 ng
RT: 22.950 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:252 Resp: 11175

Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	16.3	10.9	16.3

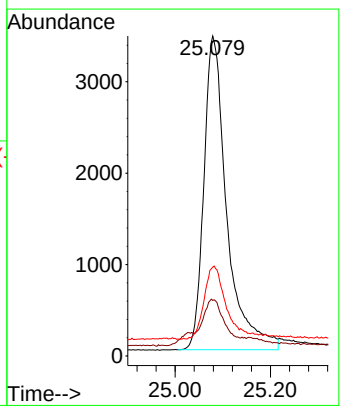


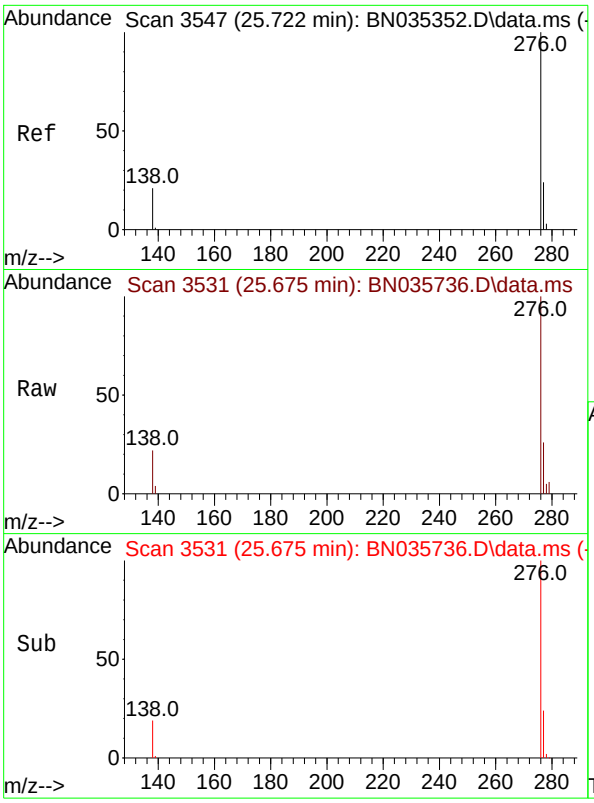


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:278 Resp: 11466

Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.2	21.4
279	27.7	20.5	30.7



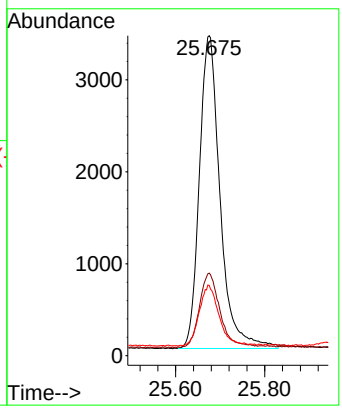


#41
Benzo(g,h,i)perylene
Concen: 0.301 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:276 Resp: 11017

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	22.0	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035742.D
Acq On : 20 Dec 2024 15:18
Operator : RC/JU
Sample : P5281-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Quant Time: Dec 20 17:13:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	3072	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8100	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	5112	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9978	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	8603	0.400	ng	0.00
35) Perylene-d12	23.041	264	8488	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	718	0.093	ng	0.00
5) Phenol-d6	6.484	99	450	0.049	ng	0.00
8) Nitrobenzene-d5	8.408	82	1766	0.357	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	3379	0.267	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	542	0.149	ng	0.00
15) 2-Fluorobiphenyl	12.544	172	4845	0.251	ng	0.00
27) Fluoranthene-d10	18.757	212	9298	0.329	ng	0.00
31) Terphenyl-d14	19.389	244	7270	0.428	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	12247	4.170	ng	98
6) bis(2-Chloroethyl)ether	6.723	93	341	0.044	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	906	0.076	ng	# 95

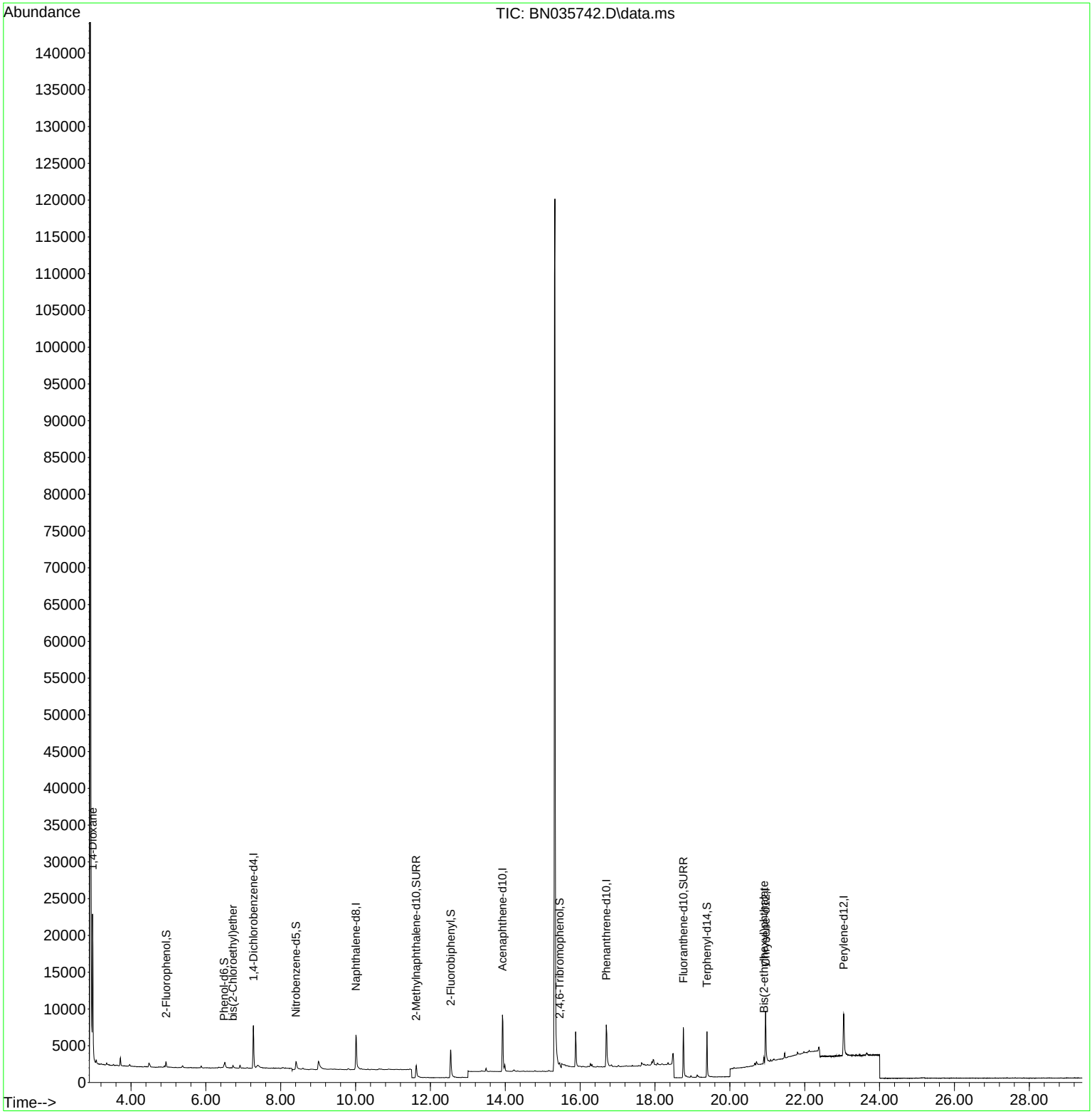
(#) = qualifier out of range (m) = manual integration (+) = signals summed

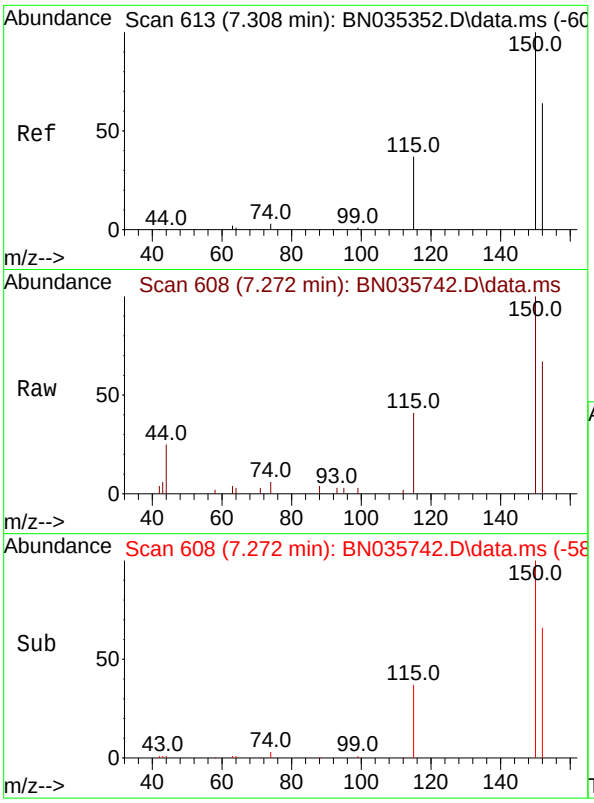
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035742.D
Acq On : 20 Dec 2024 15:18
Operator : RC/JU
Sample : P5281-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Quant Time: Dec 20 17:13:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



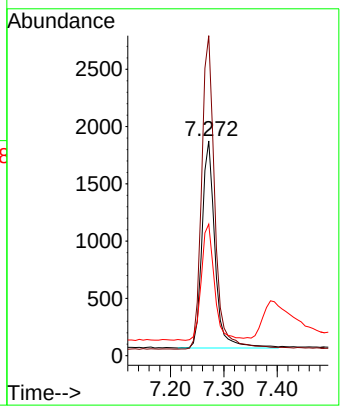


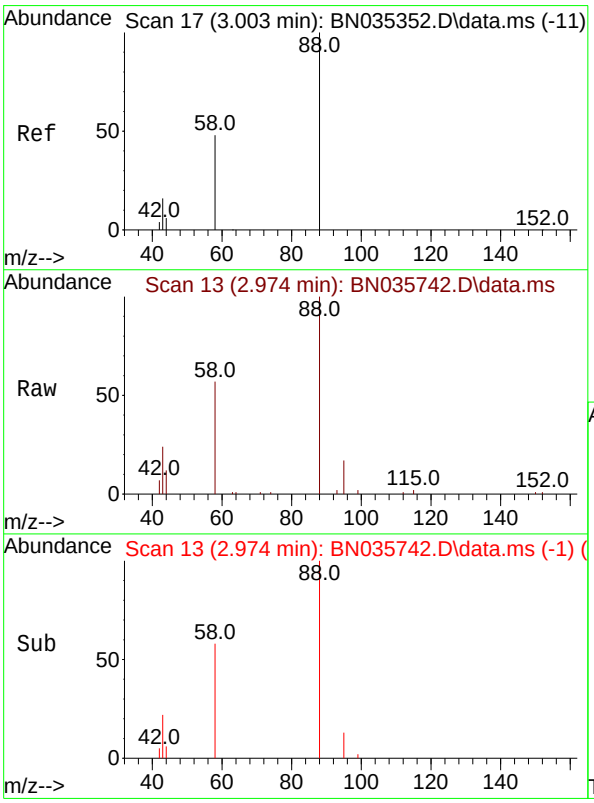
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:152 Resp: 3072

Ion	Ratio	Lower	Upper
152	100		
150	149.0	124.0	186.0
115	61.2	49.6	74.4

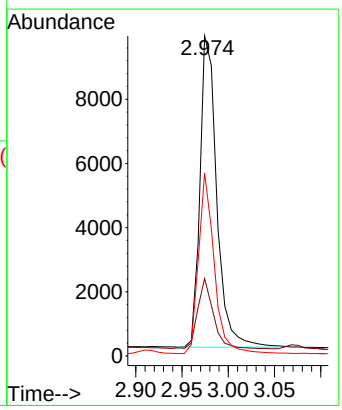


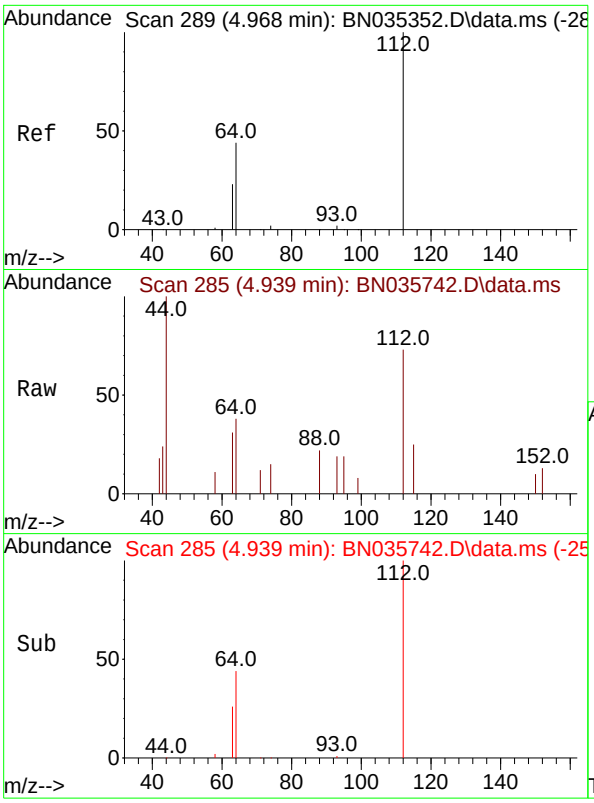


#2
1,4-Dioxane
Concen: 4.170 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion: 88 Resp: 12247

Ion	Ratio	Lower	Upper
88	100		
43	21.0	17.2	25.8
58	54.3	44.5	66.7



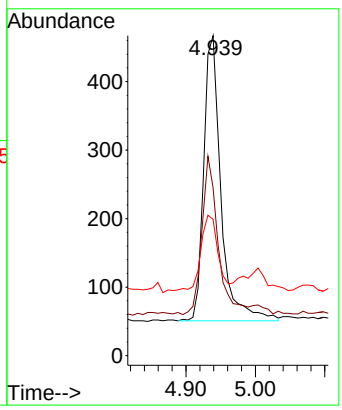


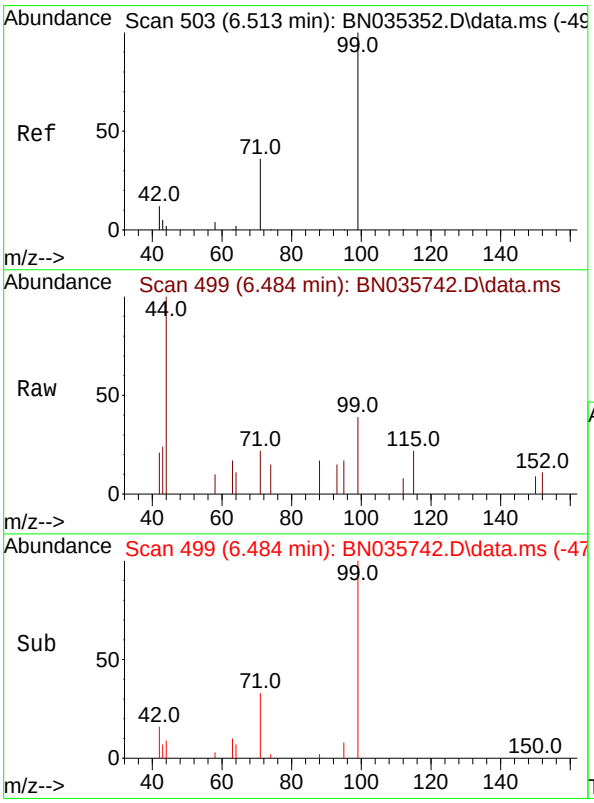
#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:112 Resp: 718

Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	25.9	21.0	31.6

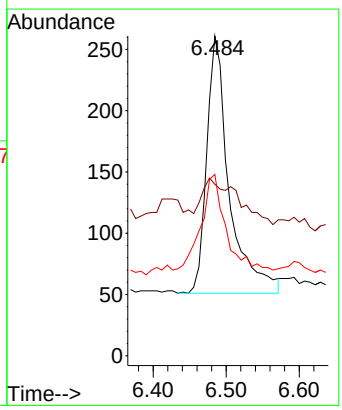


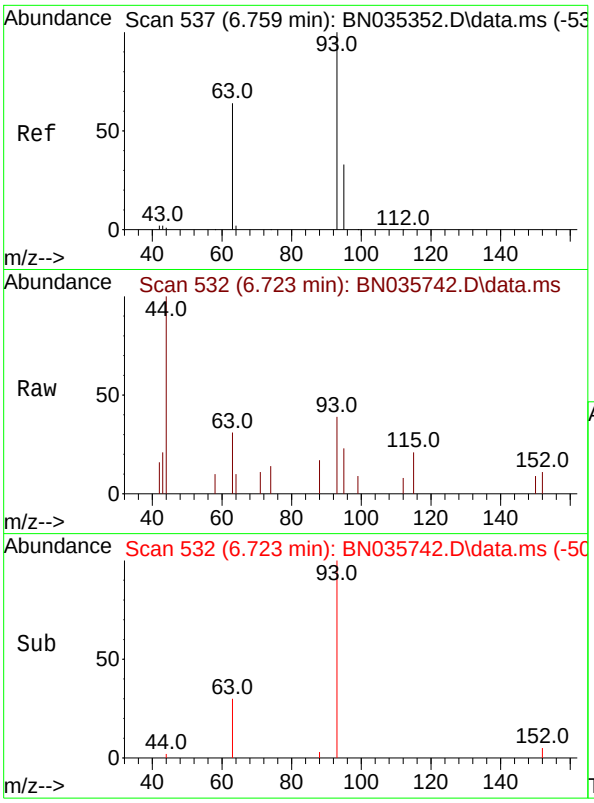


#5
Phenol-d6
Concen: 0.049 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion: 99 Resp: 450

Ion	Ratio	Lower	Upper
99	100		
42	28.4	11.4	17.2#
71	44.2	29.3	43.9#



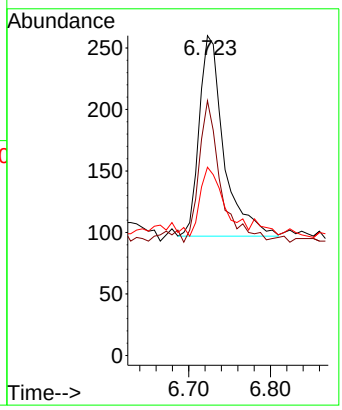


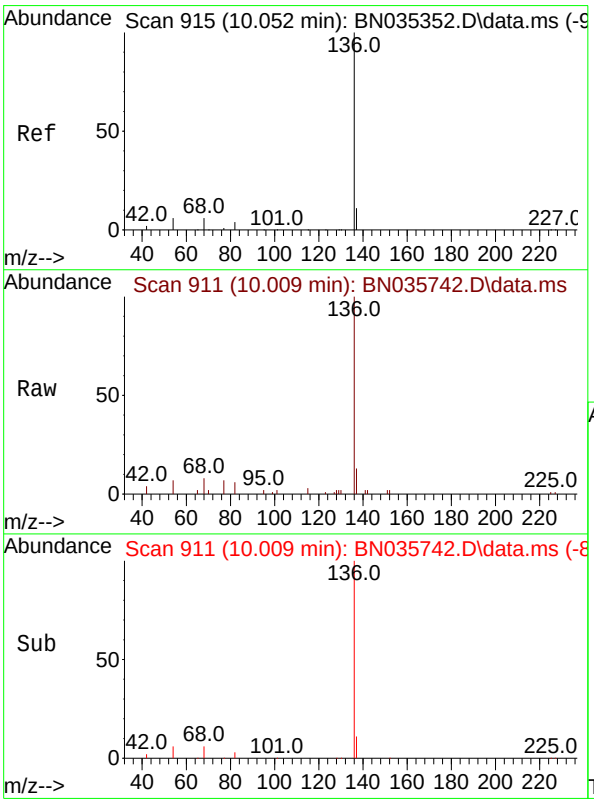
#6
bis(2-Chloroethyl)ether
Concen: 0.044 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion: 93 Resp: 341

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	33.4	25.7	38.5

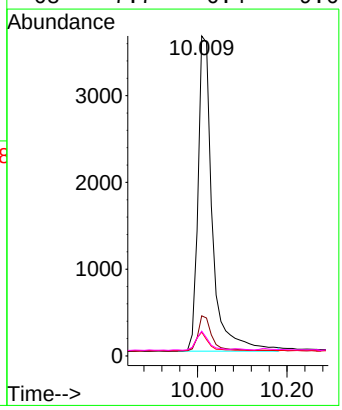


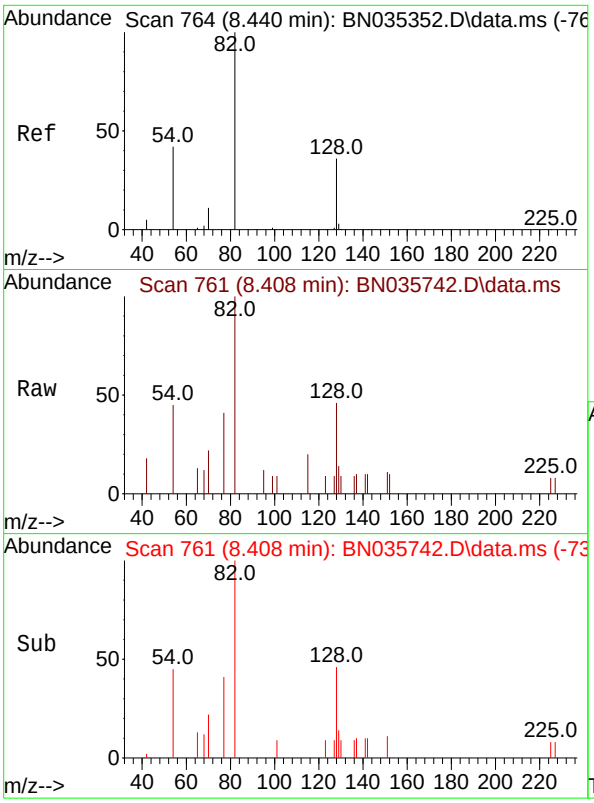


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:136 Resp: 8100

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	7.4	6.1	9.1
68	7.7	6.4	9.6



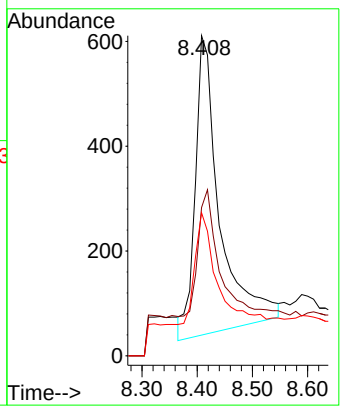


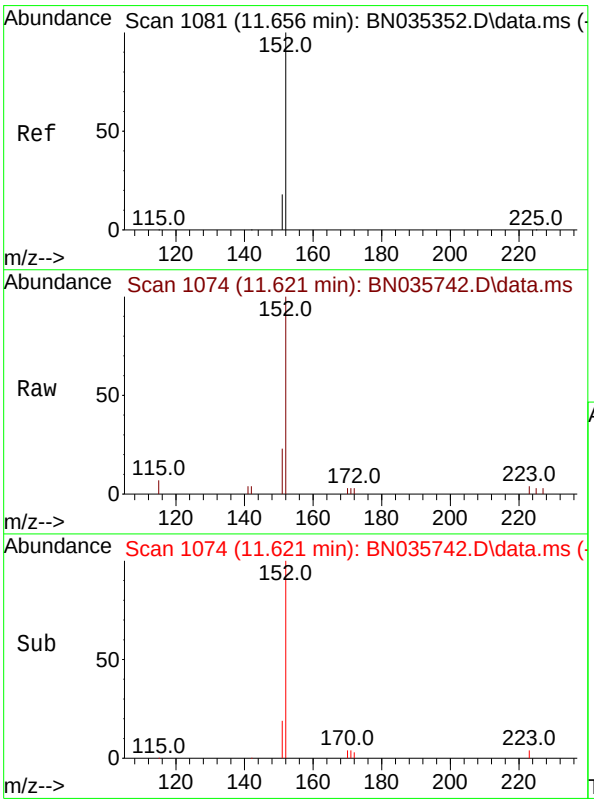
#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion: 82 Resp: 1766

Ion	Ratio	Lower	Upper
82	100		
128	46.3	33.4	50.0
54	44.7	36.7	55.1

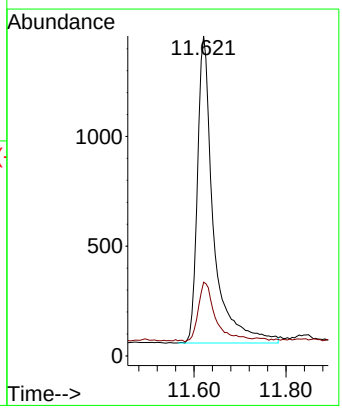


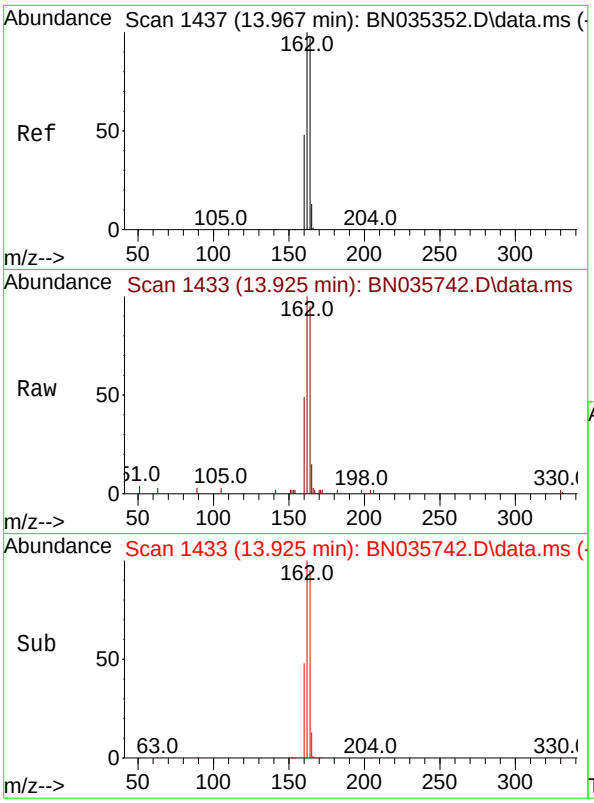


#11
2-Methylnaphthalene-d10
Concen: 0.267 ng
RT: 11.621 min Scan# 1074
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:152 Resp: 3379

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0



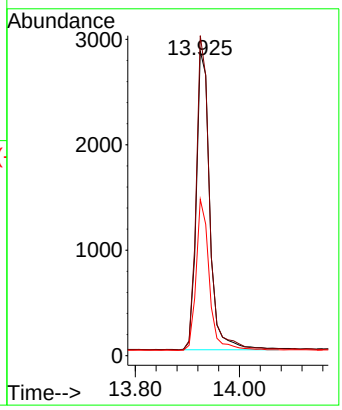


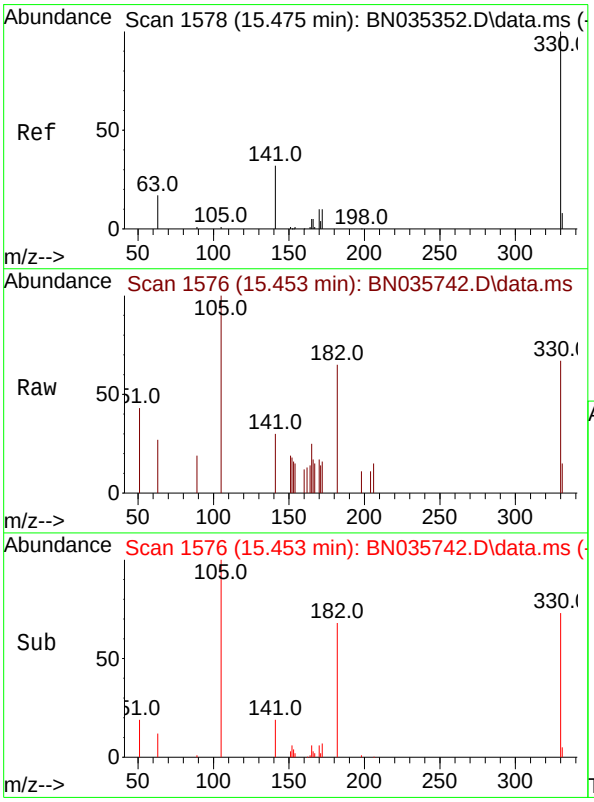
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:164 Resp: 5112

Ion	Ratio	Lower	Upper
164	100		
162	105.1	82.2	123.2
160	51.3	40.1	60.1

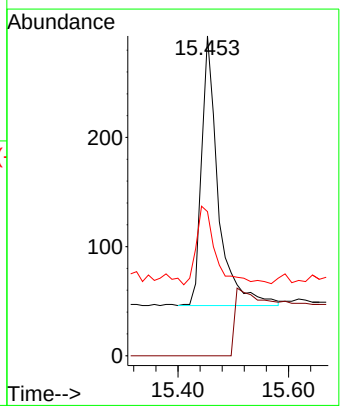


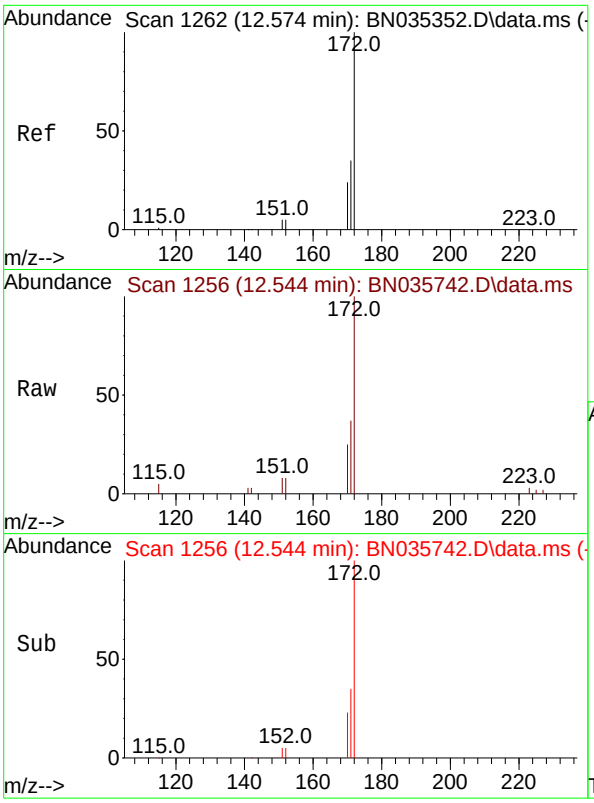


#14
2,4,6-Tribromophenol
Concen: 0.149 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:330 Resp: 542

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0



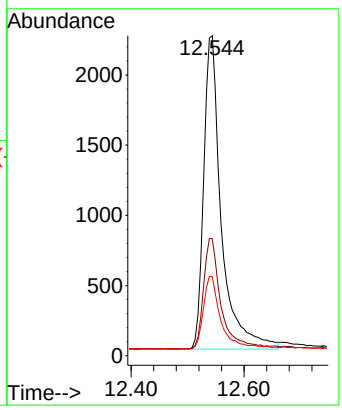


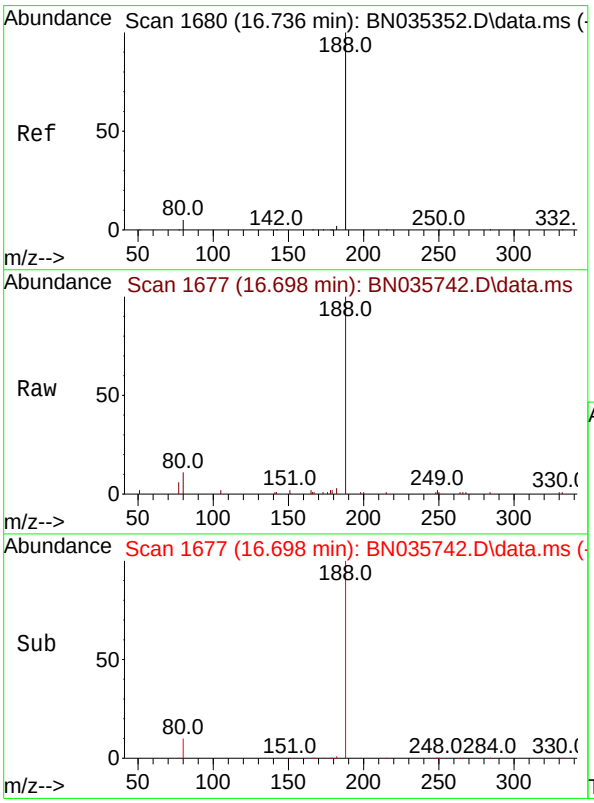
#15
2-Fluorobiphenyl
Concen: 0.251 ng
RT: 12.544 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:172 Resp: 4845

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.4
170	24.6	19.8	29.8

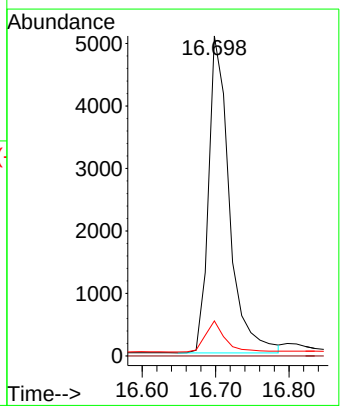


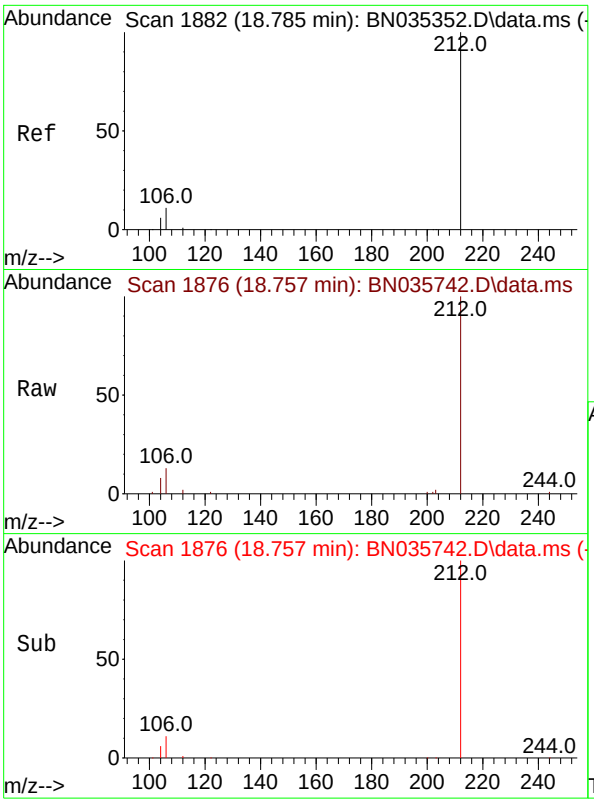


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:188 Resp: 9978

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	4.6	6.8#



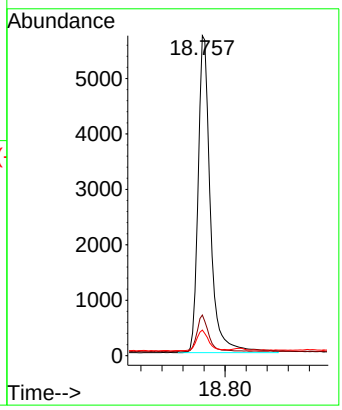


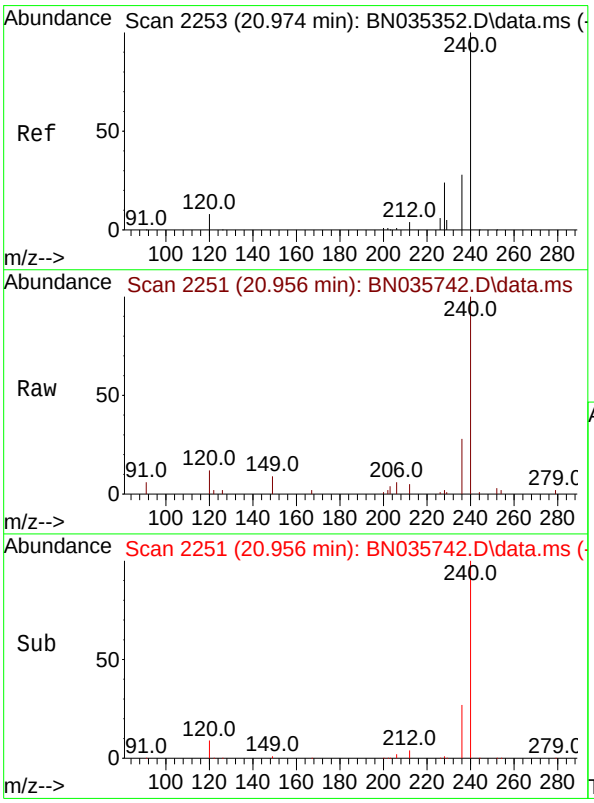
#27
Fluoranthene-d10
Concen: 0.329 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:212 Resp: 9298

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9

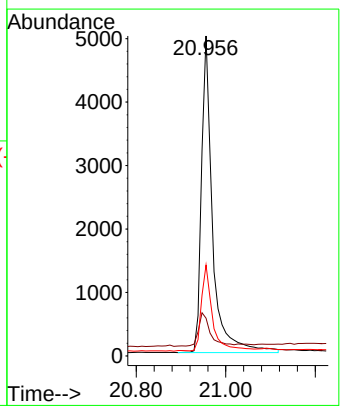


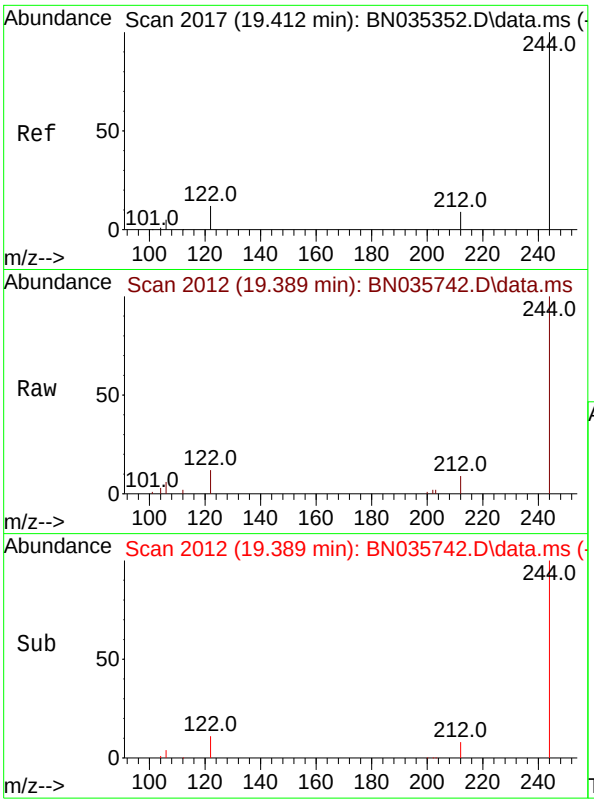


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:240 Resp: 8603

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.4	22.9	34.3



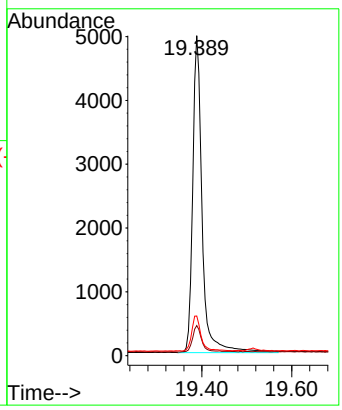


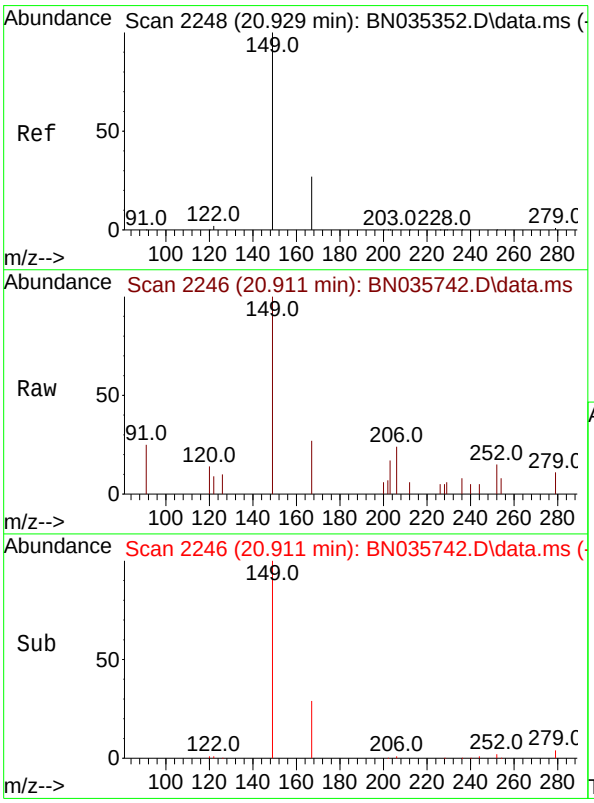
#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.389 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:244 Resp: 7270

Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	12.4	10.3	15.5

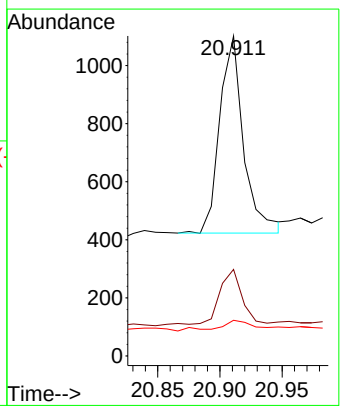


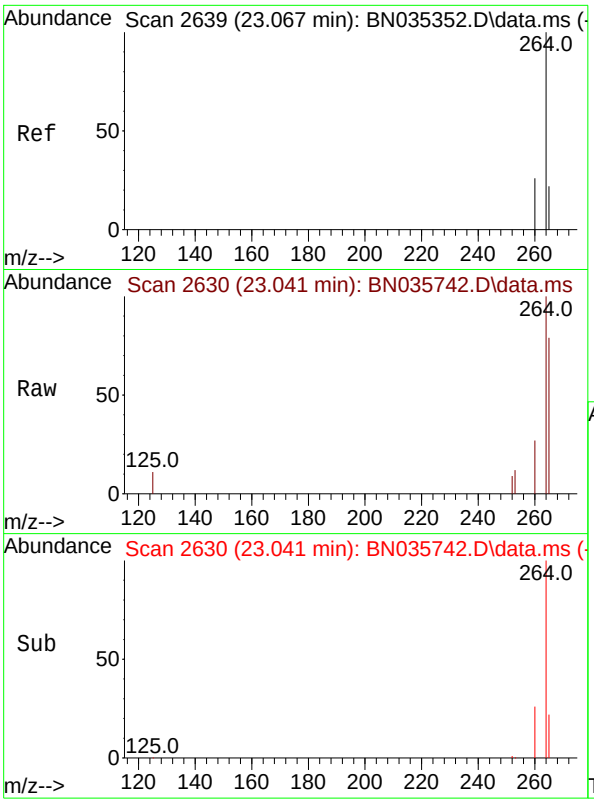


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.076 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Tgt Ion:149 Resp: 906

Ion	Ratio	Lower	Upper
149	100		
167	25.8	22.2	33.4
279	7.8	2.7	4.1#



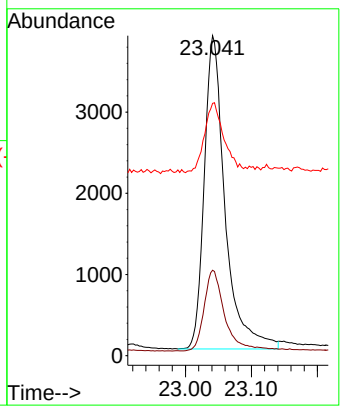


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.041 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035742.D
Acq: 20 Dec 2024 15:18

Instrument :
BNA_N
ClientSampleId :
RE114D1-20241212

Tgt Ion:264 Resp: 8488

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.2
265	78.9	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.272	152	4145	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	11402	0.400	ng		-0.01
13) Acenaphthene-d10	13.924	164	7019	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	13951	0.400	ng		# 0.00
29) Chrysene-d12	20.956	240	11878	0.400	ng		0.00
35) Perylene-d12	23.038	264	12200	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	10	0.001	ng		-0.01
5) Phenol-d6	6.484	99	102	0.008	ng		0.00
8) Nitrobenzene-d5	8.312	82	427	0.061	ng		-0.10
11) 2-Methylnaphthalene-d10	11.616	152	7049	0.395	ng		0.00
14) 2,4,6-Tribromophenol	15.443	330	9	0.002	ng		-0.01
15) 2-Fluorobiphenyl	12.544	172	12	0.000	ng		0.00
27) Fluoranthene-d10	18.757	212	14421	0.365	ng		0.00
31) Terphenyl-d14	19.393	244	35	0.001	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1859	0.469	ng		99
6) bis(2-Chloroethyl)ether	6.723	93	4332	0.413	ng		98
9) Naphthalene	10.063	128	12423	0.413	ng		99
10) Hexachlorobutadiene	10.351	225	3142	0.453	ng	#	99
12) 2-Methylnaphthalene	11.692	142	8345	0.388	ng		99
16) Acenaphthylene	13.636	152	11936	0.405	ng		100
17) Acenaphthene	13.989	154	8162	0.417	ng		98
18) Fluorene	14.993	166	10307	0.368	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	168	0.122	ng	#	3
21) 4-Bromophenyl-phenylether	15.904	248	3188	0.391	ng	#	83
22) Hexachlorobenzene	16.003	284	4408	0.460	ng		97
24) Pentachlorophenol	16.376	266	1329	0.319	ng		86
25) Phenanthrene	16.735	178	15452	0.403	ng		100
26) Anthracene	16.835	178	14156	0.408	ng		99
28) Fluoranthene	18.789	202	18255	0.353	ng		100
30) Pyrene	19.156	202	19874	0.453	ng		100
32) Benzo(a)anthracene	20.938	228	16354	0.394	ng		99
33) Chrysene	20.991	228	18340	0.428	ng		98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7490	0.456	ng		98
36) Indeno(1,2,3-cd)pyrene	25.061	276	21102	0.442	ng		99
37) Benzo(b)fluoranthene	22.427	252	21982	0.493	ng		99
38) Benzo(k)fluoranthene	22.427	252	21982	0.500	ng		99
39) Benzo(a)pyrene	22.947	252	15636	0.425	ng		98
40) Dibenzo(a,h)anthracene	25.082	278	15847	0.421	ng		98
41) Benzo(g,h,i)perylene	25.675	276	16995	0.432	ng		98

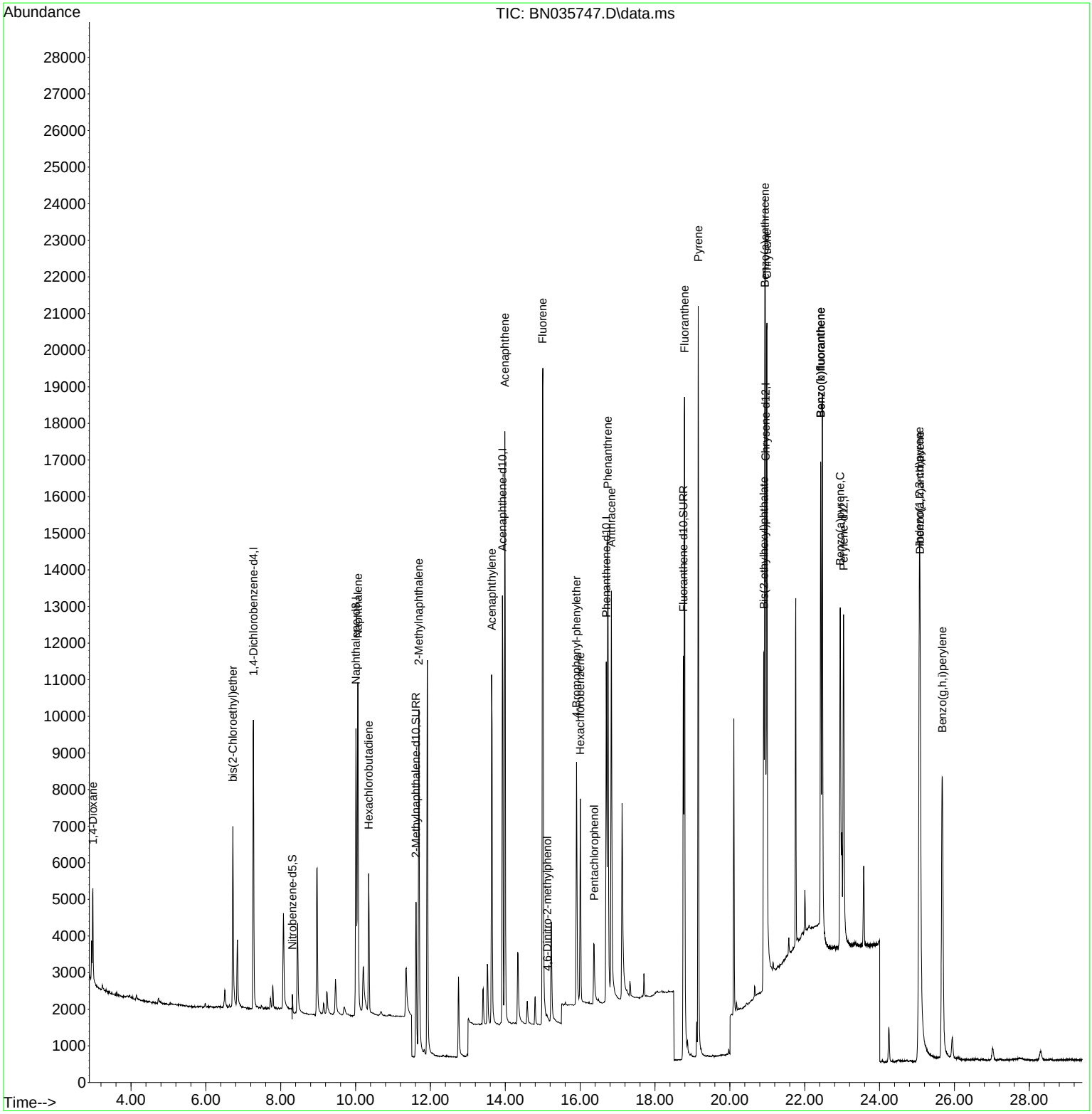
(#) = qualifier out of range (m) = manual integration (+) = signals summed

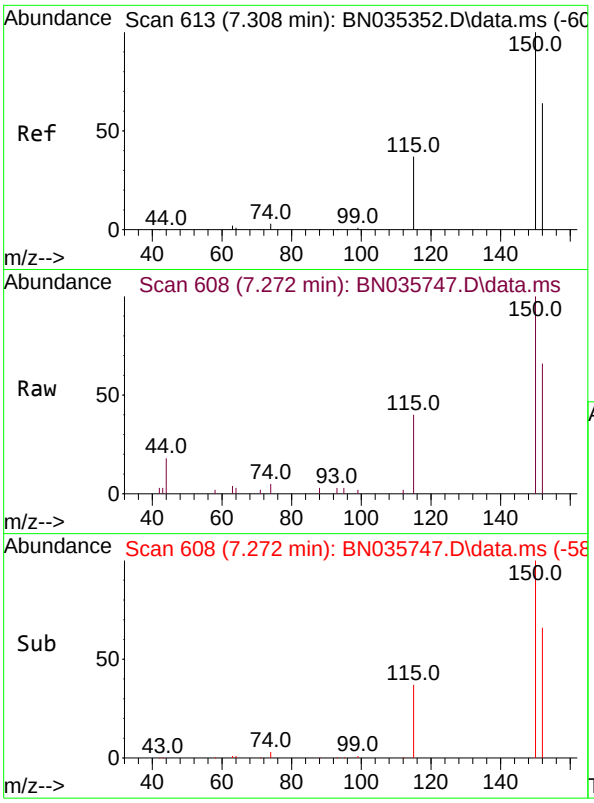
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



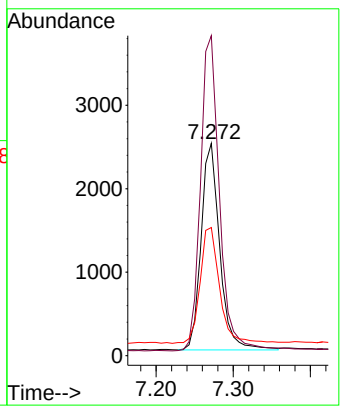


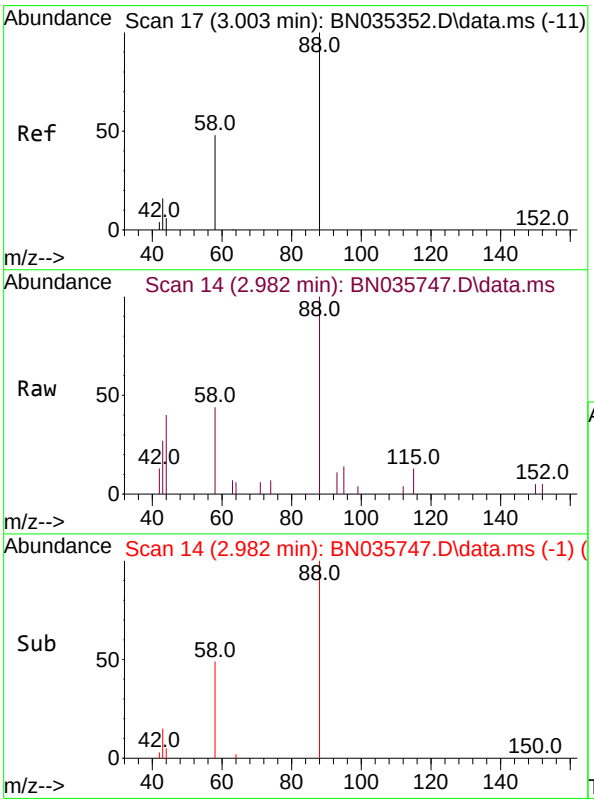
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4145

Ion	Ratio	Lower	Upper
152	100		
150	150.8	124.0	186.0
115	60.4	49.6	74.4

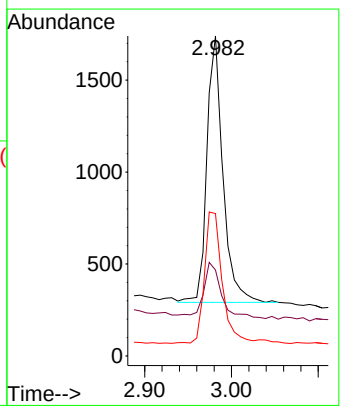


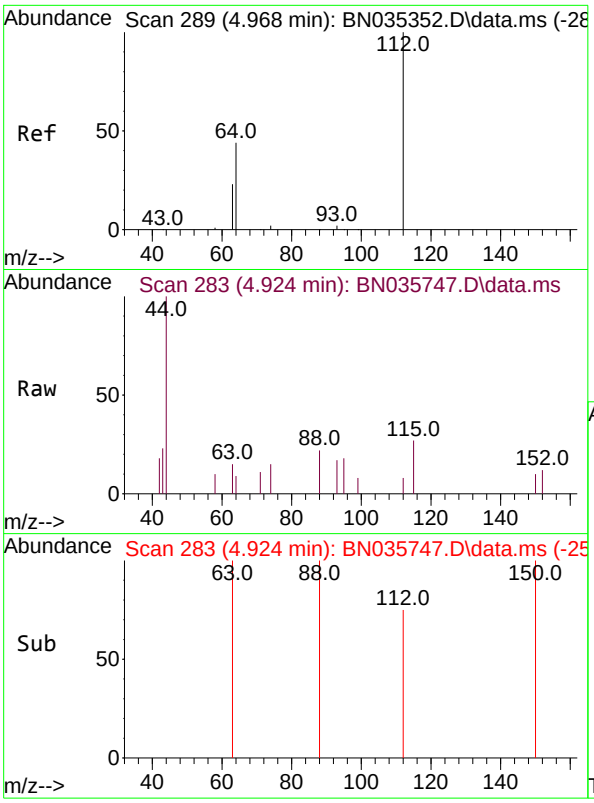


#2
1,4-Dioxane
Concen: 0.469 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 88 Resp: 1859

Ion	Ratio	Lower	Upper
88	100		
43	23.8	17.2	25.8
58	55.6	44.5	66.7



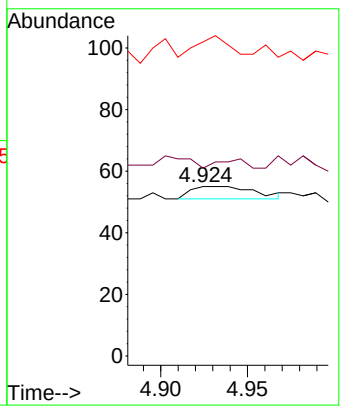


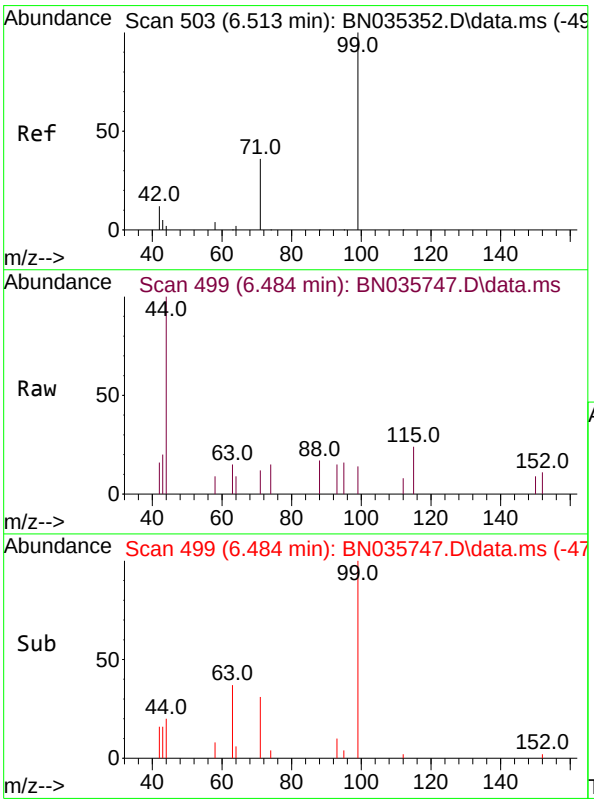
#4
2-Fluorophenol
Concen: 0.001 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:112 Resp: 10

Ion	Ratio	Lower	Upper
112	100		
64	0.0	39.8	59.8#
63	140.0	21.0	31.6#

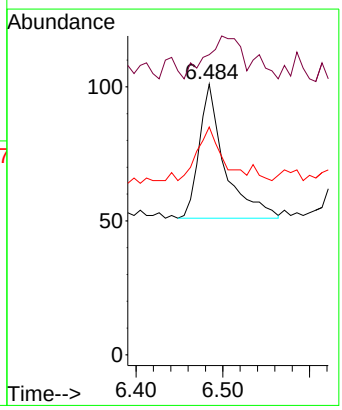


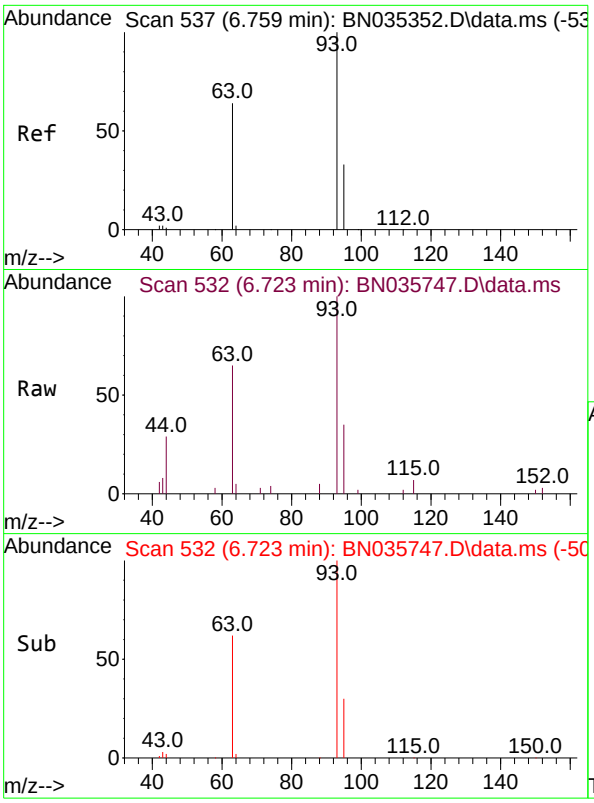


#5
Phenol-d6
Concen: 0.008 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 99 Resp: 102

Ion	Ratio	Lower	Upper
99	100		
42	42.2	11.4	17.2#
71	39.2	29.3	43.9



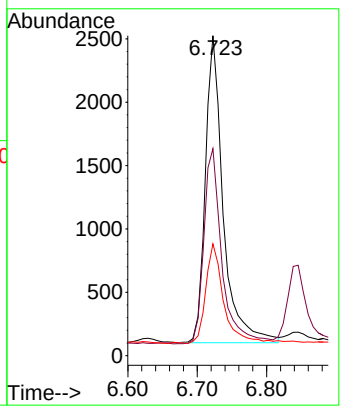


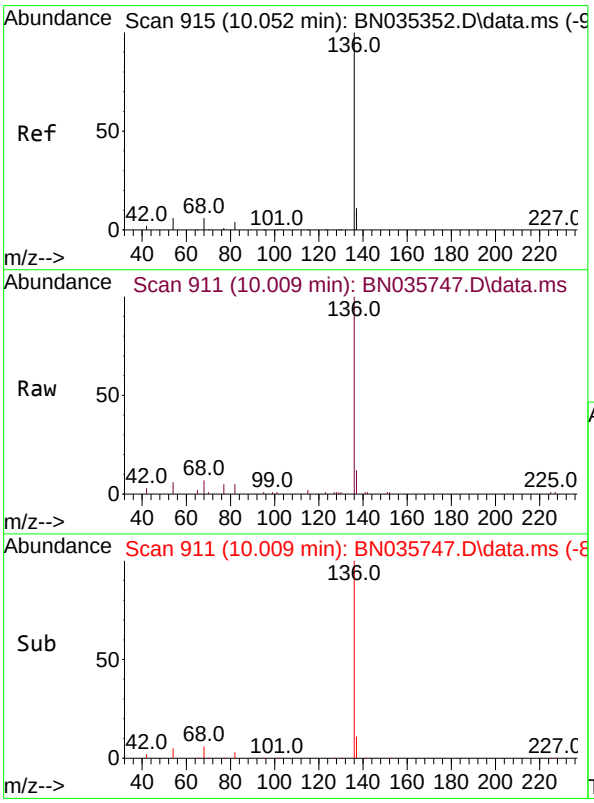
#6
bis(2-Chloroethyl)ether
Concen: 0.413 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 93 Resp: 4332

Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	33.6	25.7	38.5

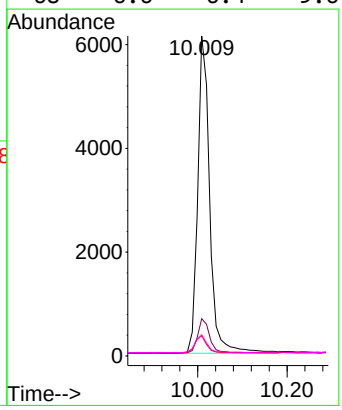


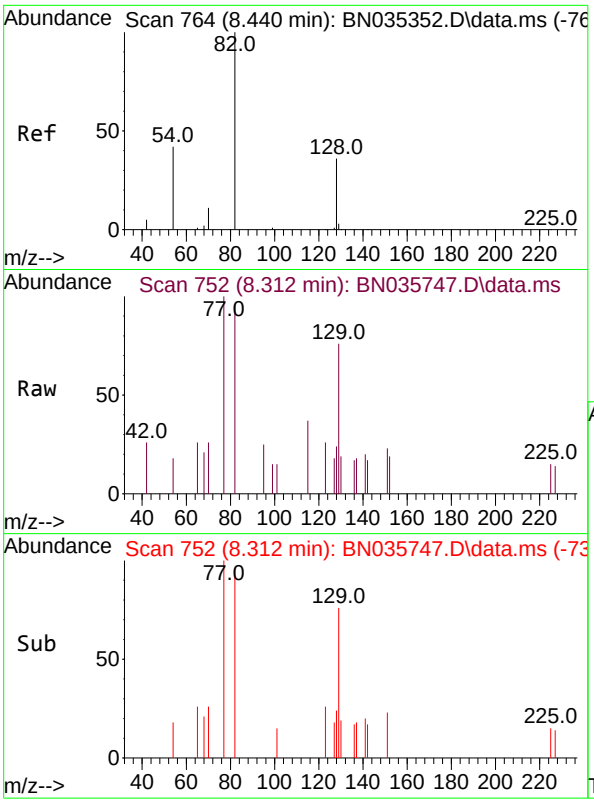


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:136 Resp: 11402

Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.2	15.2
54	6.3	6.1	9.1
68	6.6	6.4	9.6



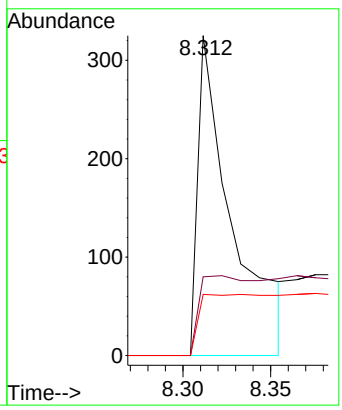


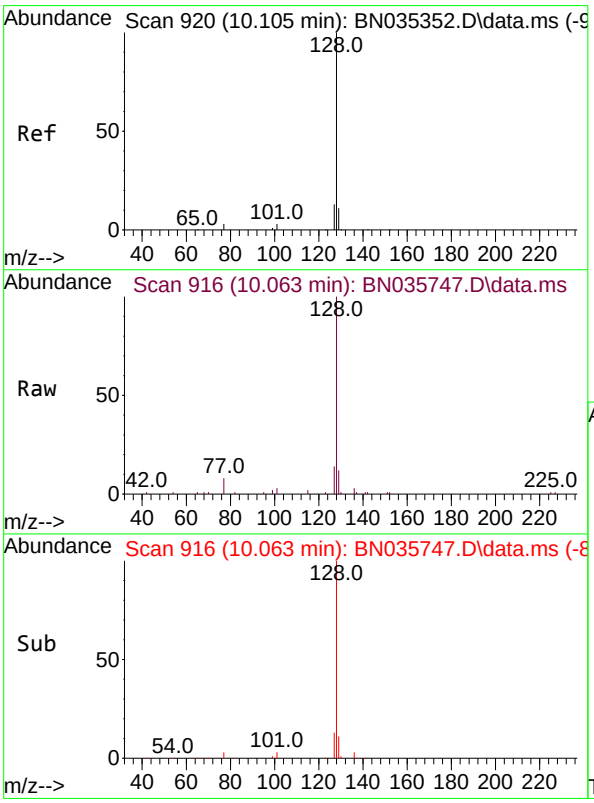
#8
Nitrobenzene-d5
Concen: 0.061 ng
RT: 8.312 min Scan# 7
Delta R.T. -0.096 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 82 Resp: 427

Ion	Ratio	Lower	Upper
82	100		
128	24.6	33.4	50.0#
54	19.1	36.7	55.1#

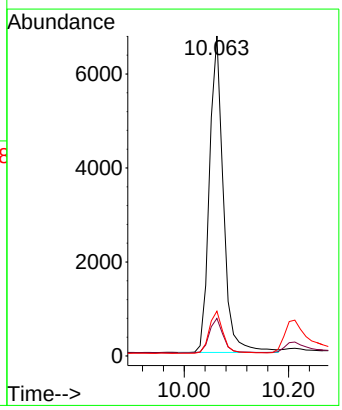


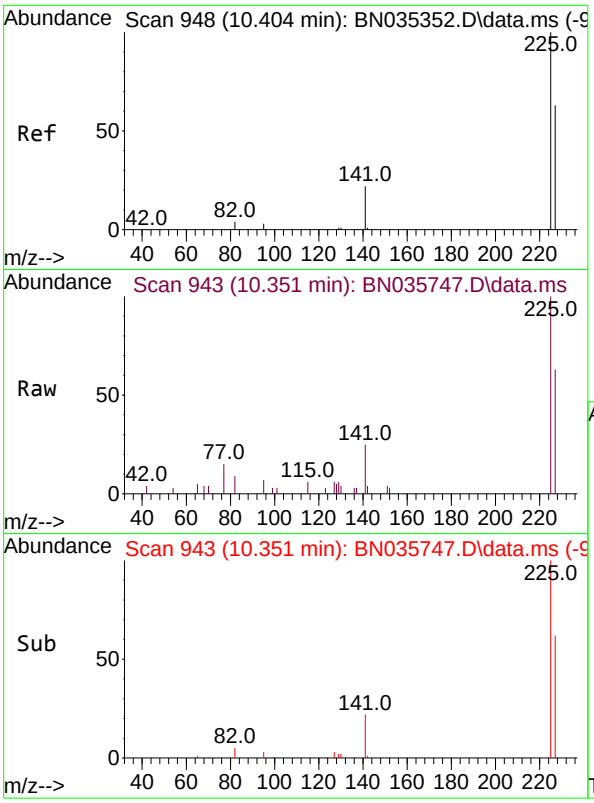


#9
Naphthalene
Concen: 0.413 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:128 Resp: 12423

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2



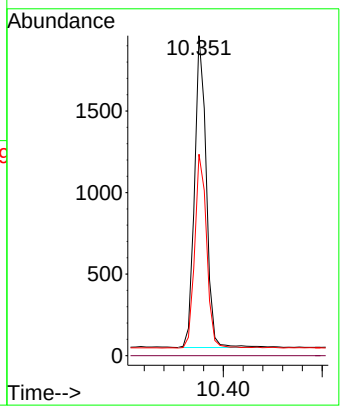


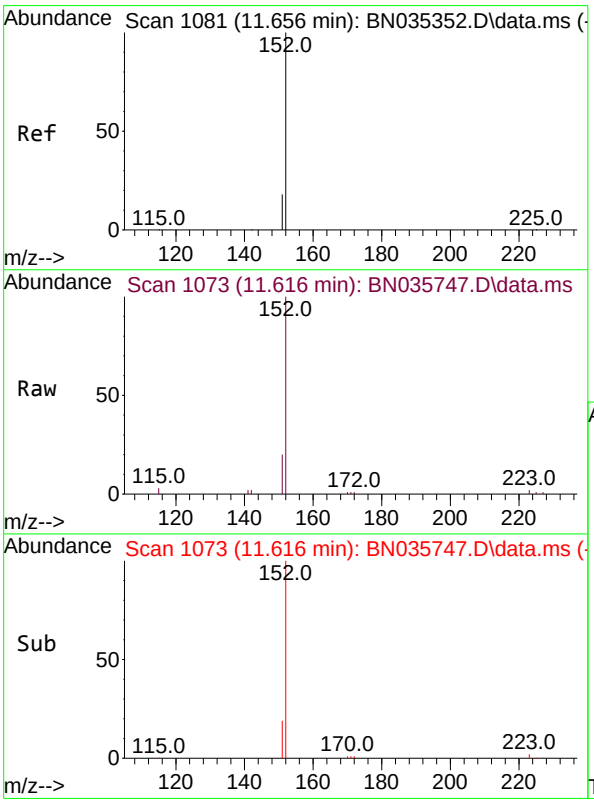
#10
Hexachlorobutadiene
Concen: 0.453 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:225 Resp: 3142

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.3	76.9

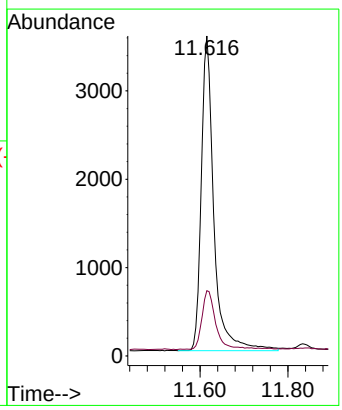


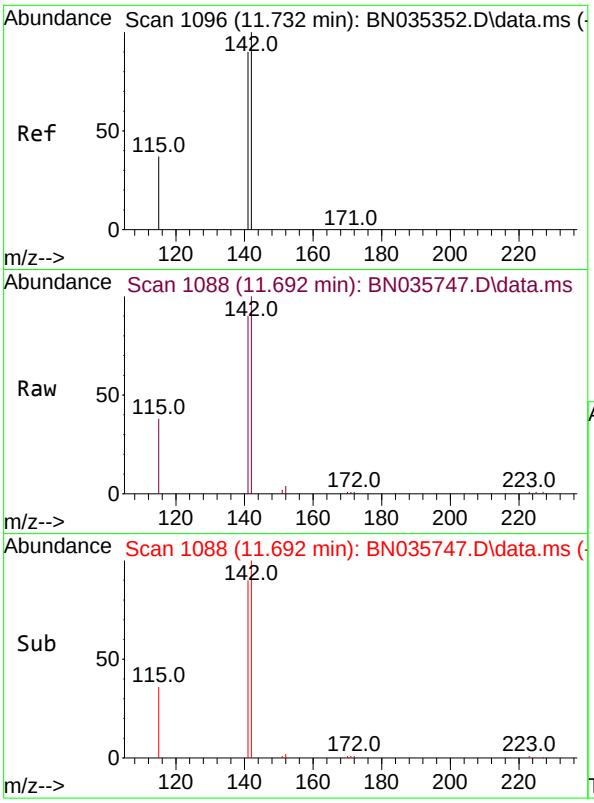


#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 7049

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



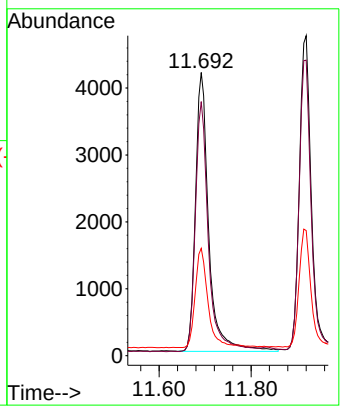


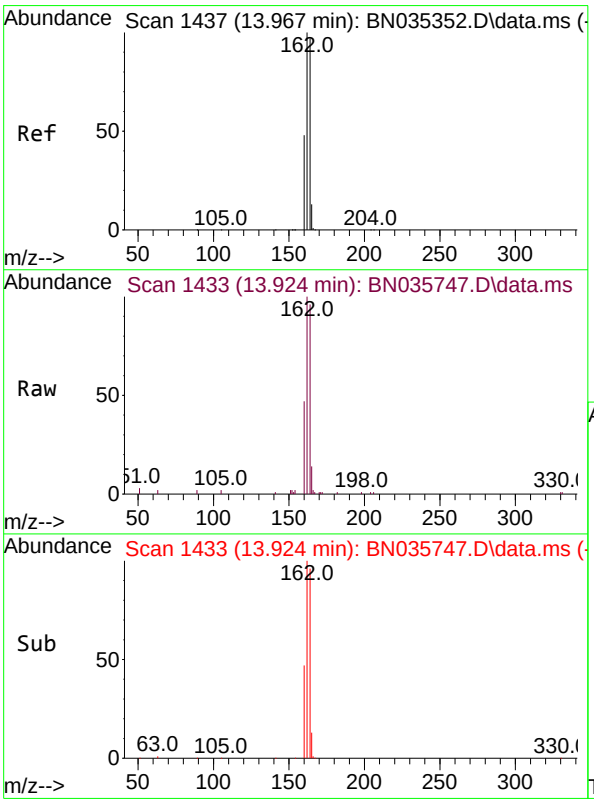
#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:142 Resp: 8345

Ion	Ratio	Lower	Upper
142	100		
141	89.7	72.2	108.4
115	37.9	31.4	47.0

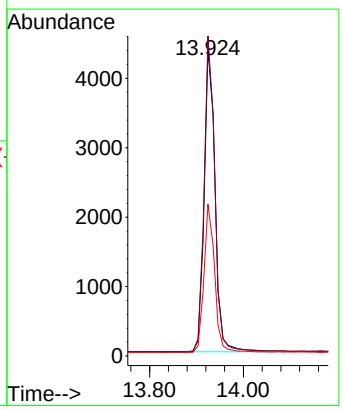


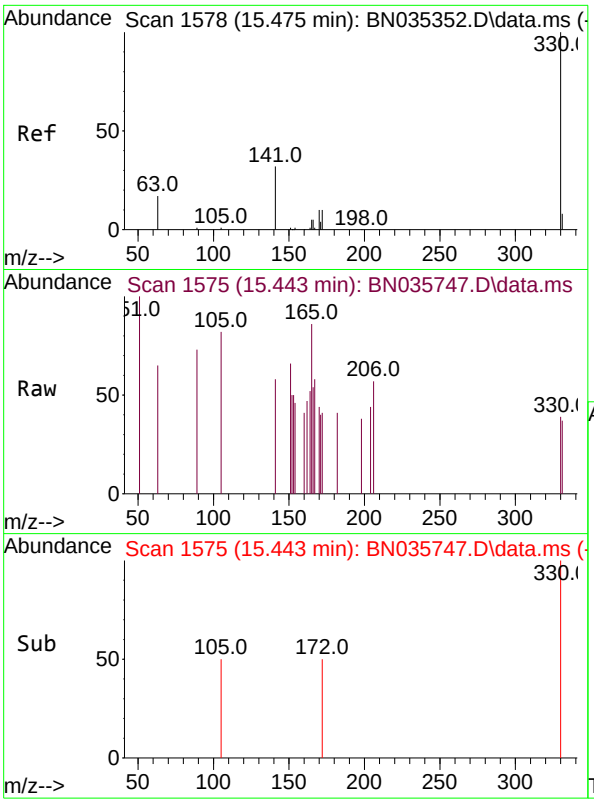


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:164 Resp: 7019

Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.2	123.2
160	49.5	40.1	60.1



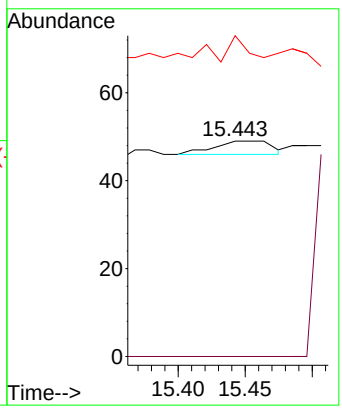


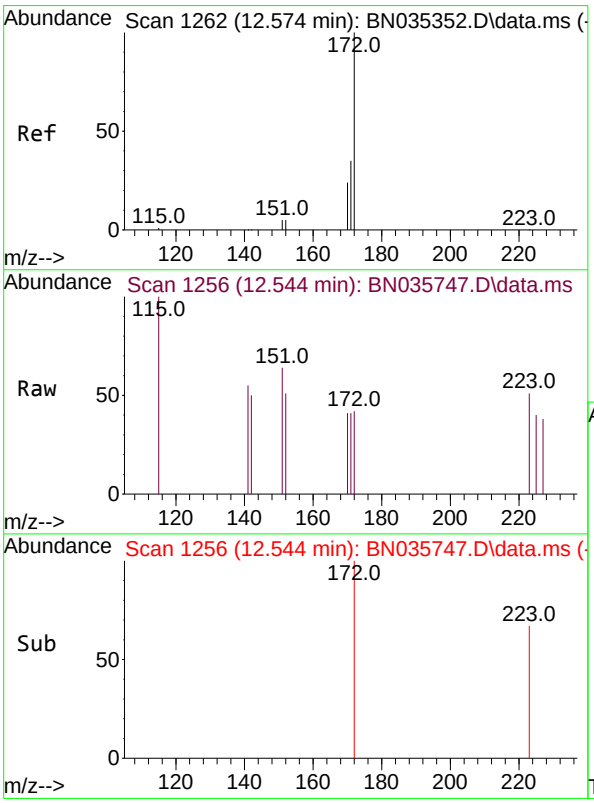
#14
2,4,6-Tribromophenol
Concen: 0.002 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:330 Resp: 9

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	77.8	26.6	40.0#

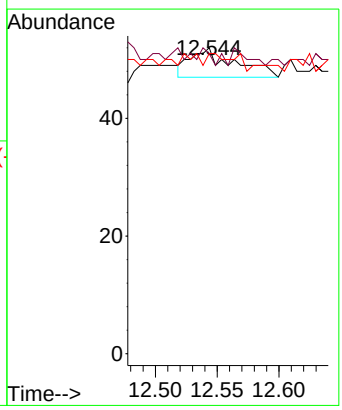


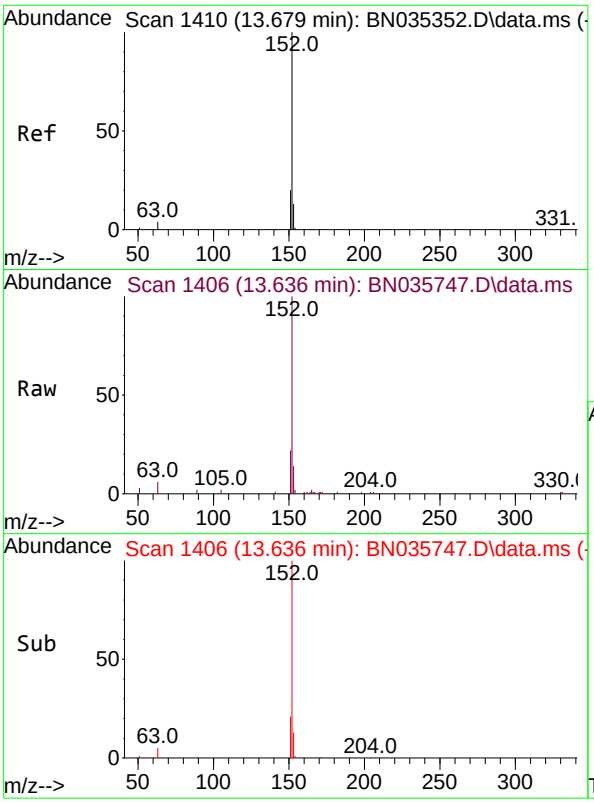


#15
2-Fluorobiphenyl
Concen: 0.000 ng
RT: 12.544 min Scan# 1256
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:172 Resp: 12

Ion	Ratio	Lower	Upper
172	100		
171	98.1	29.0	43.4#
170	98.1	19.8	29.8#



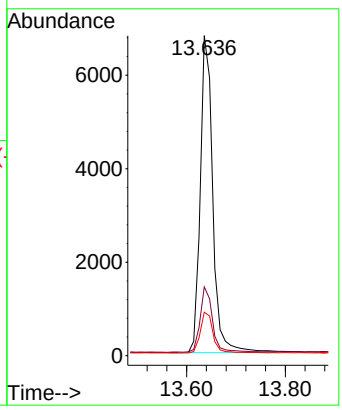


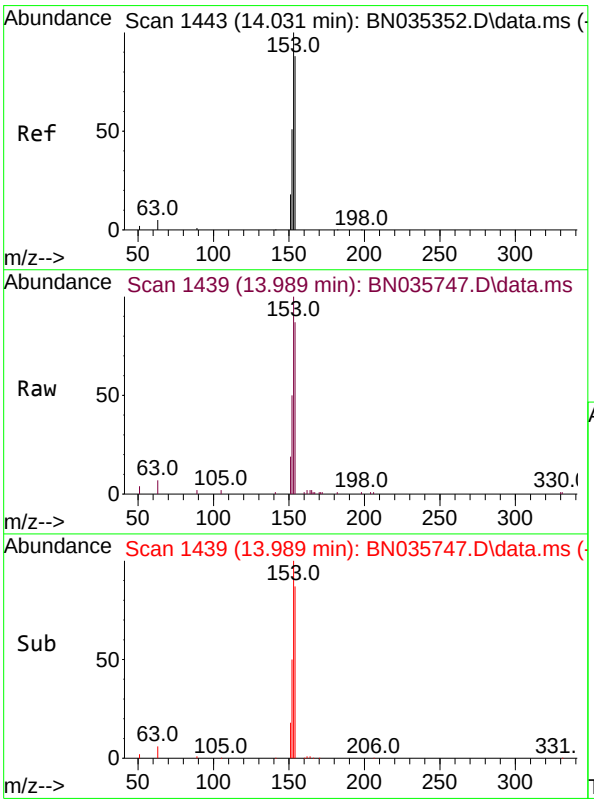
#16
Acenaphthylene
Concen: 0.405 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 11936

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.1	10.4	15.6

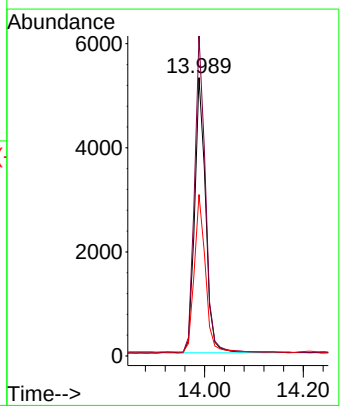


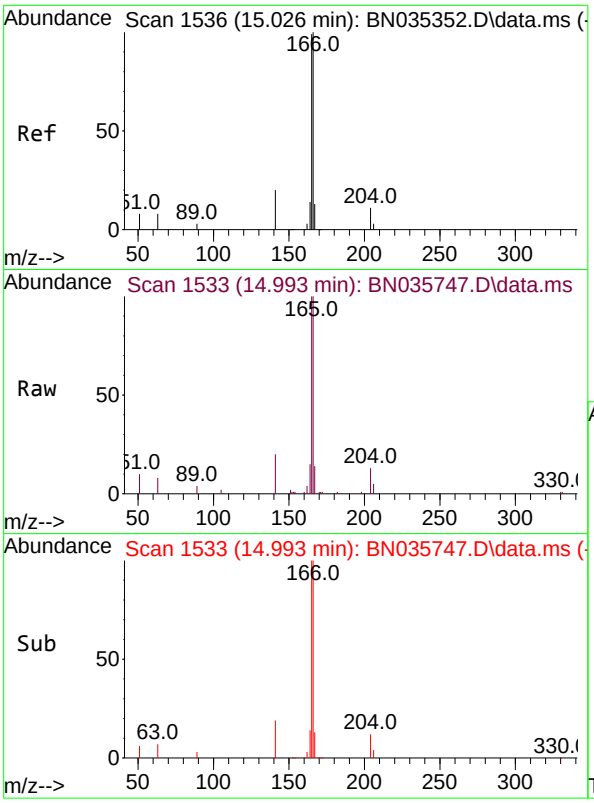


#17
Acenaphthene
Concen: 0.417 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:154 Resp: 8162

Ion	Ratio	Lower	Upper
154	100		
153	115.3	92.6	139.0
152	57.6	49.0	73.6



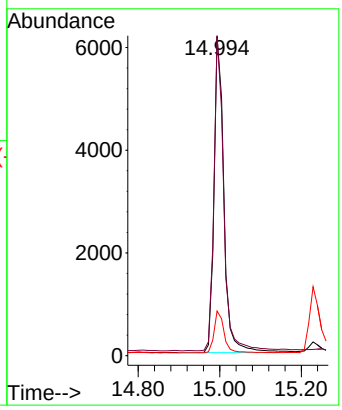


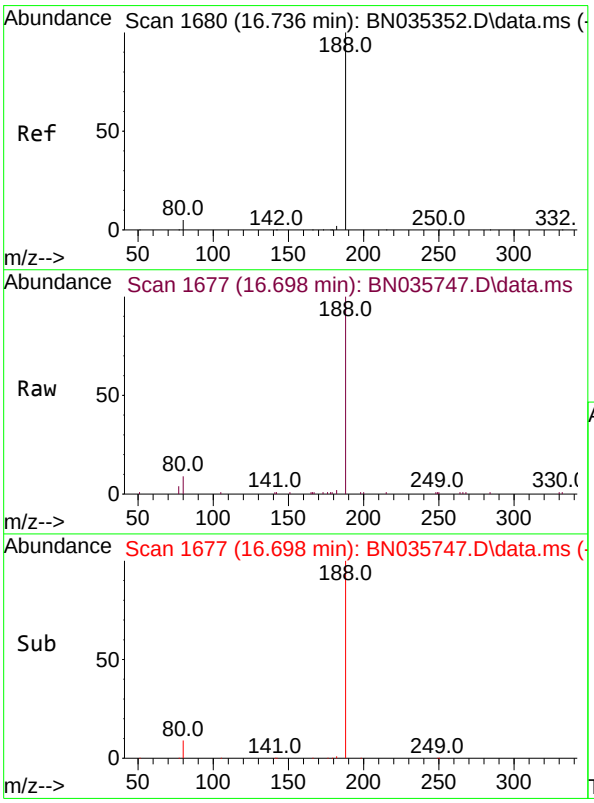
#18
Fluorene
Concen: 0.368 ng
RT: 14.993 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:166 Resp: 10307

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.4	10.8	16.2

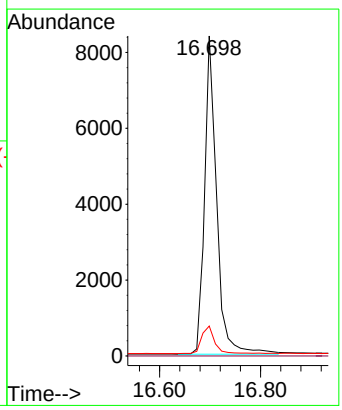


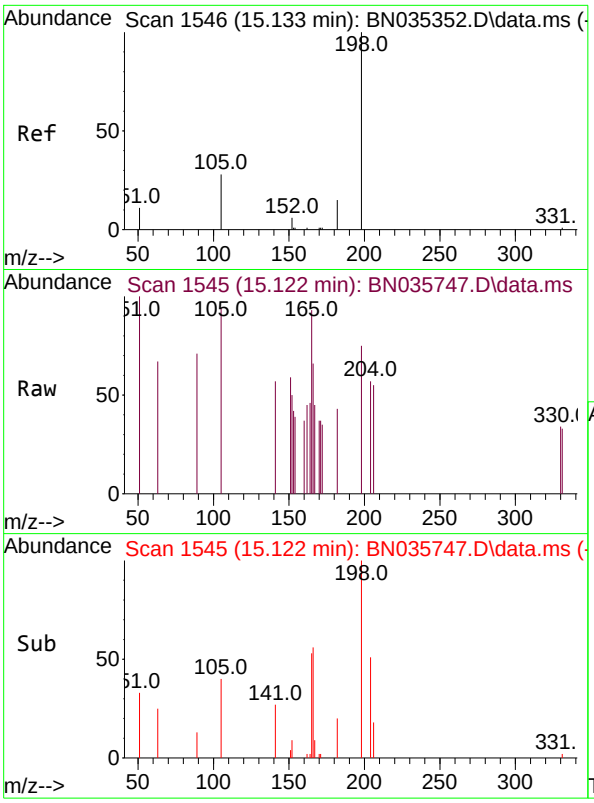


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:188 Resp: 13951

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	4.6	6.8#



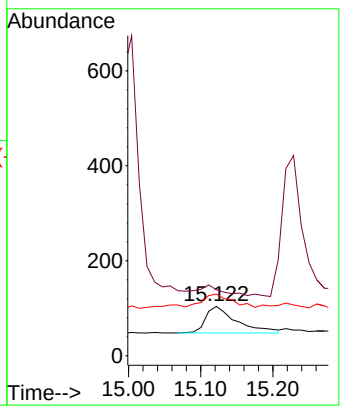


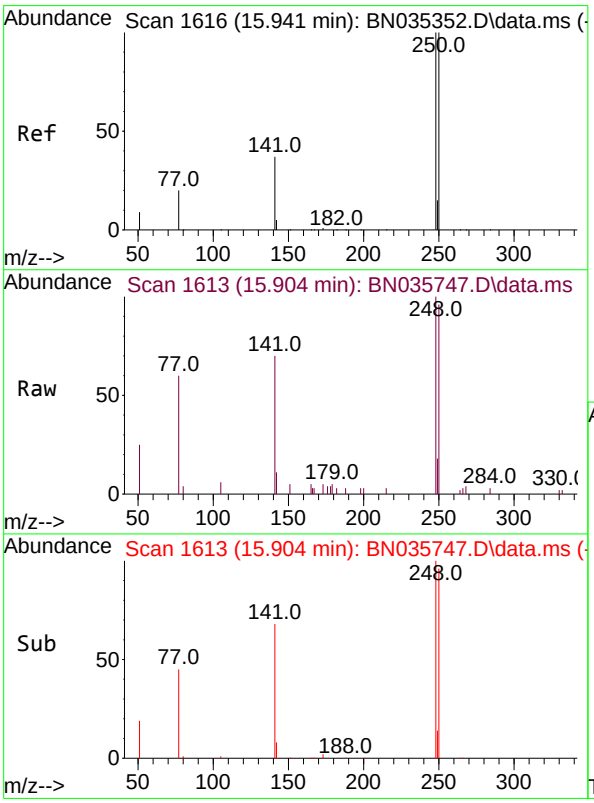
#20
4,6-Dinitro-2-methylphenol
Concen: 0.122 ng
RT: 15.122 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:198 Resp: 168

Ion	Ratio	Lower	Upper
198	100		
51	133.7	46.5	69.7#
105	125.0	45.3	67.9#

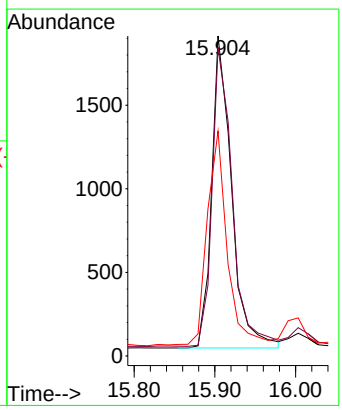


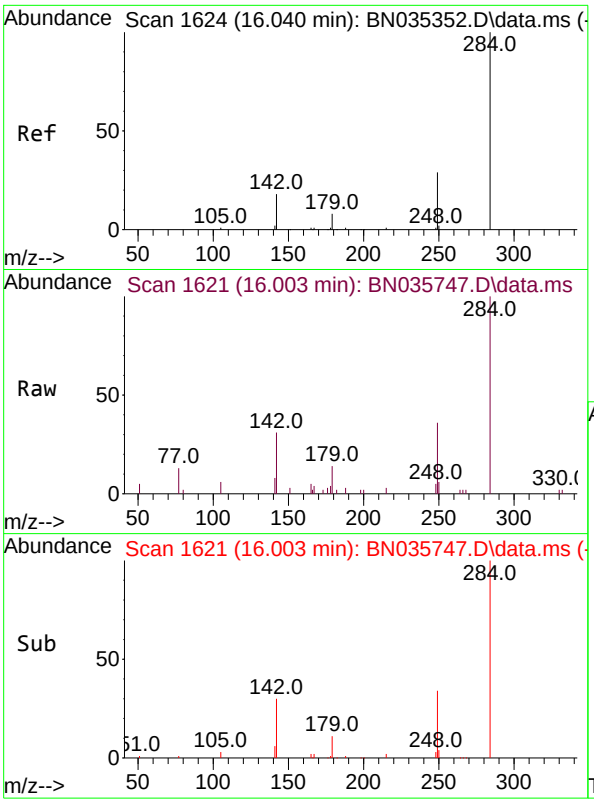


#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:248 Resp: 3188

Ion	Ratio	Lower	Upper
248	100		
250	96.4	80.6	120.8
141	70.3	31.5	47.3#



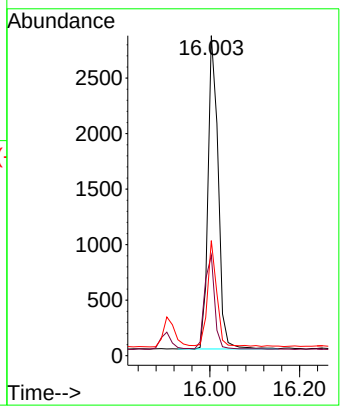


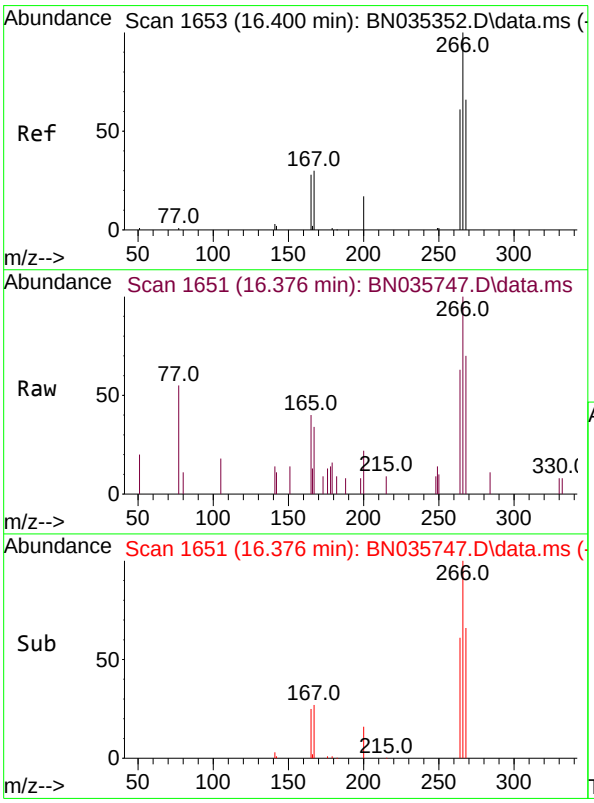
#22
Hexachlorobenzene
Concen: 0.460 ng
RT: 16.003 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:284 Resp: 4408

Ion	Ratio	Lower	Upper
284	100		
142	29.9	26.7	40.1
249	30.7	24.6	36.8

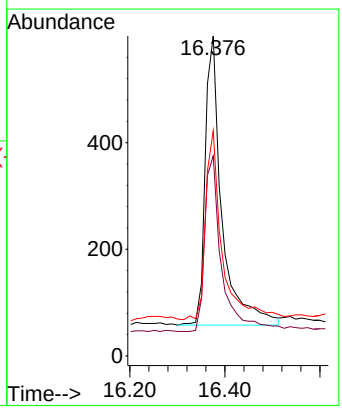


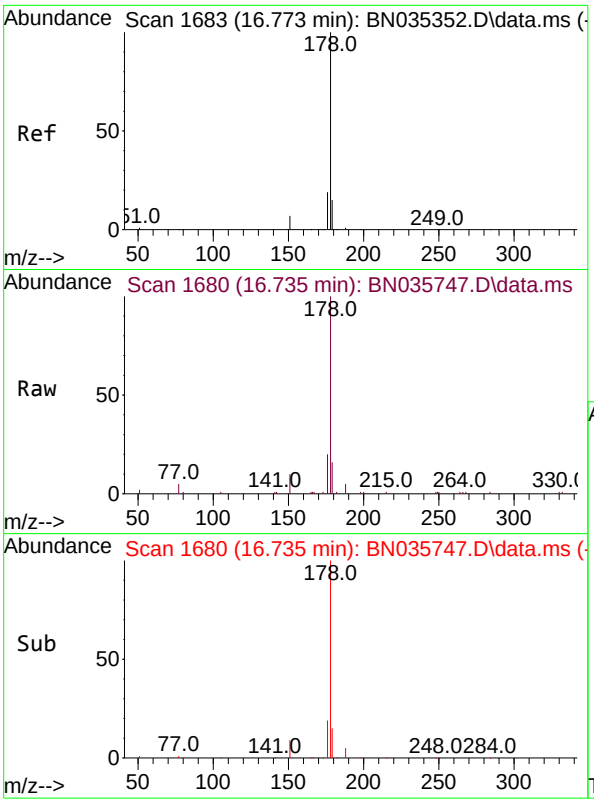


#24
Pentachlorophenol
Concen: 0.319 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:266 Resp: 1329

Ion	Ratio	Lower	Upper
266	100		
264	61.8	42.3	63.5
268	64.7	43.3	64.9



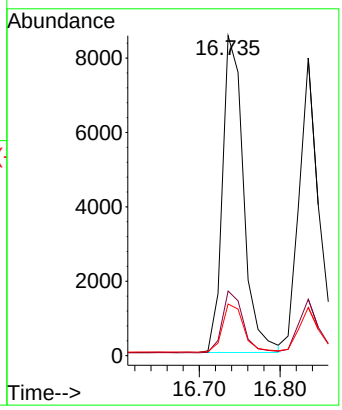


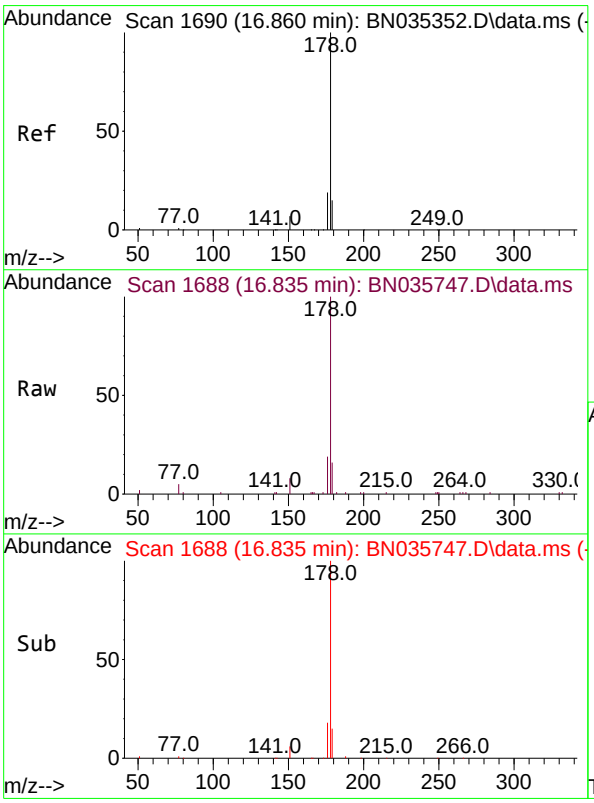
#25
Phenanthrene
Concen: 0.403 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 15452

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

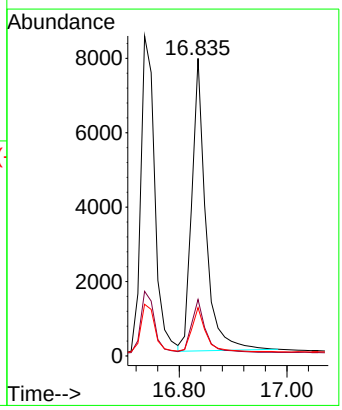


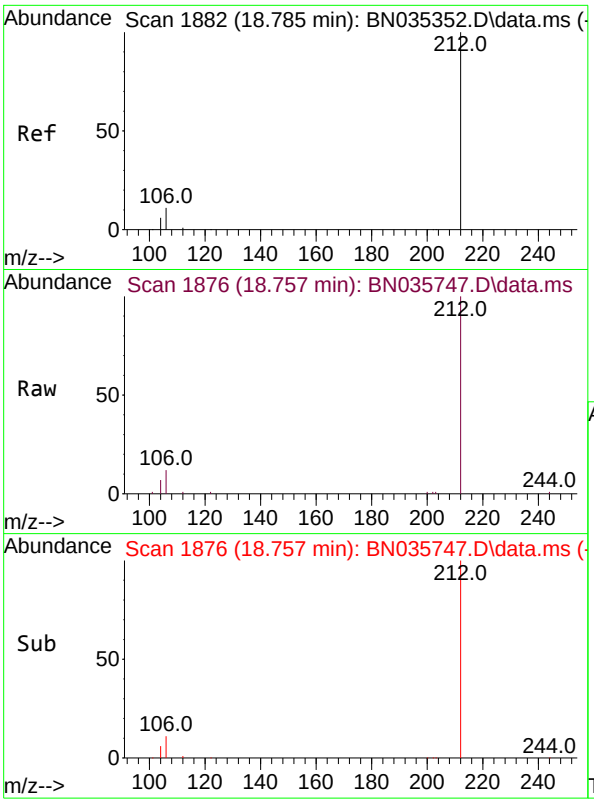


#26
Anthracene
Concen: 0.408 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 14156

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.5	12.6	18.8



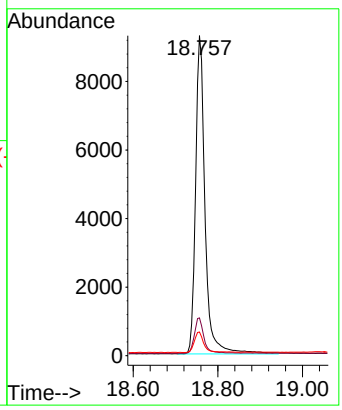


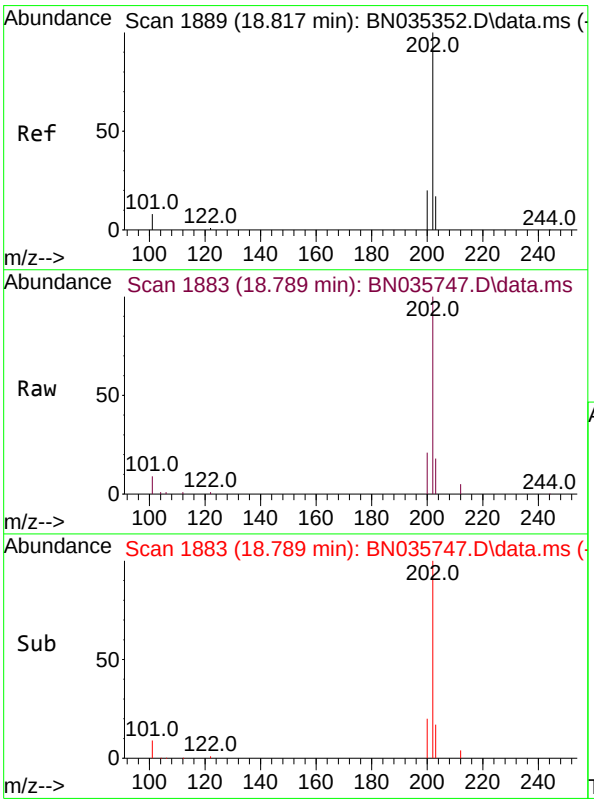
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 14421

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.3	5.3	7.9

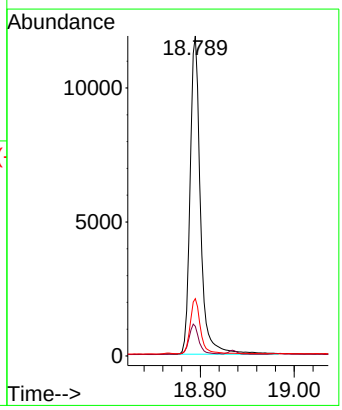


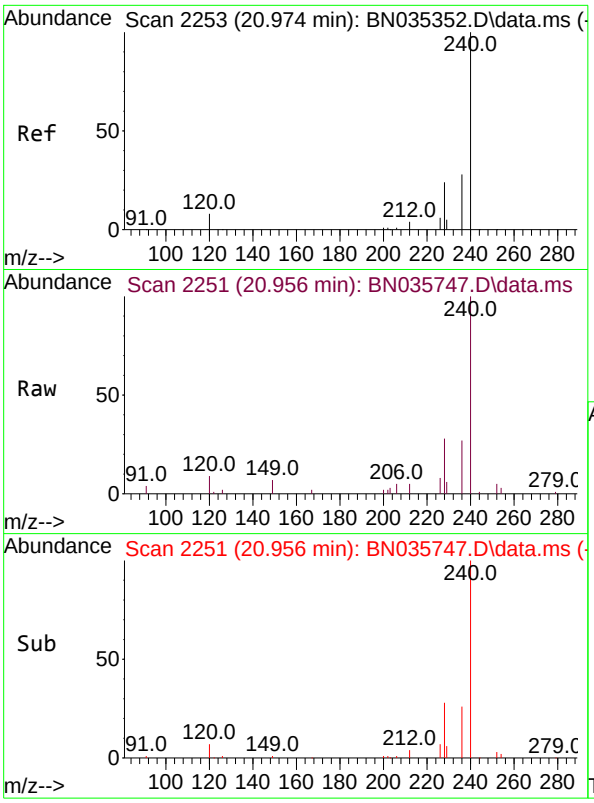


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 18255

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.4	11.0
203	17.0	13.7	20.5



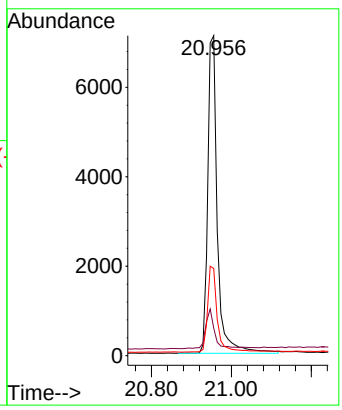


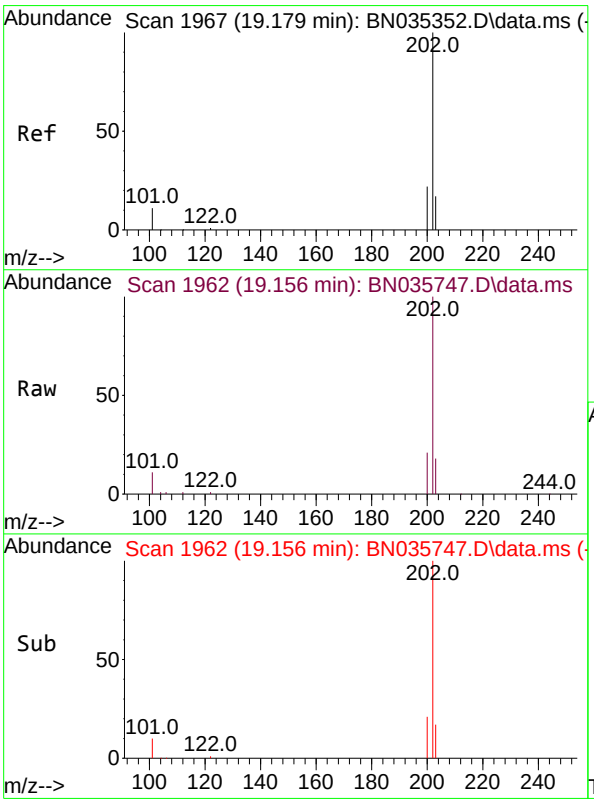
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 11878

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.9	11.9
236	27.2	22.9	34.3

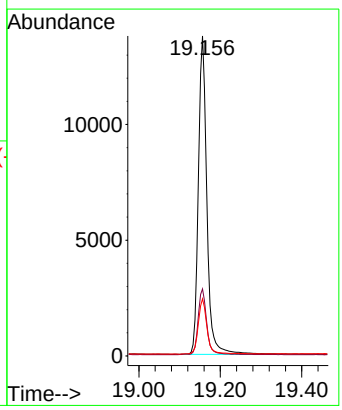


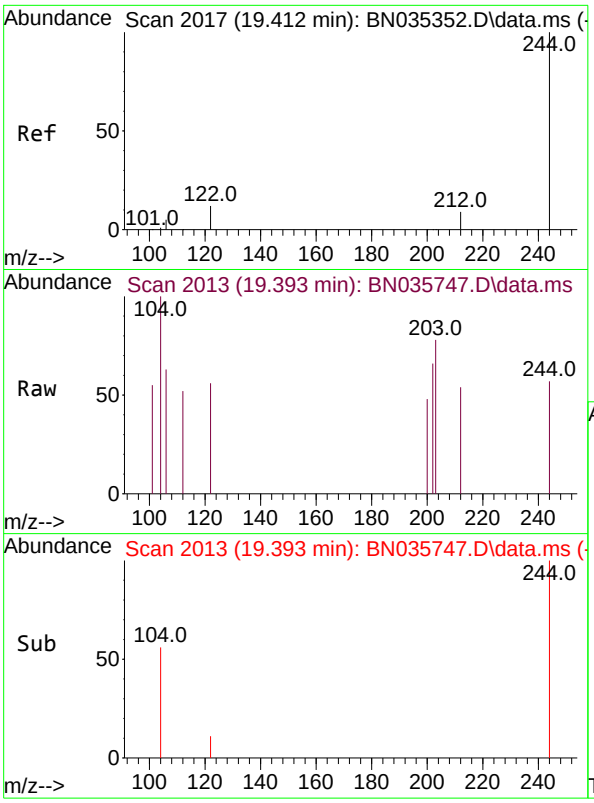


#30
Pyrene
Concen: 0.453 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 19874

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5



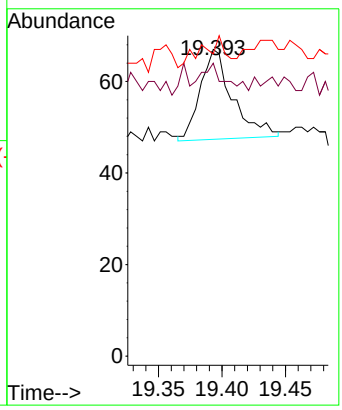


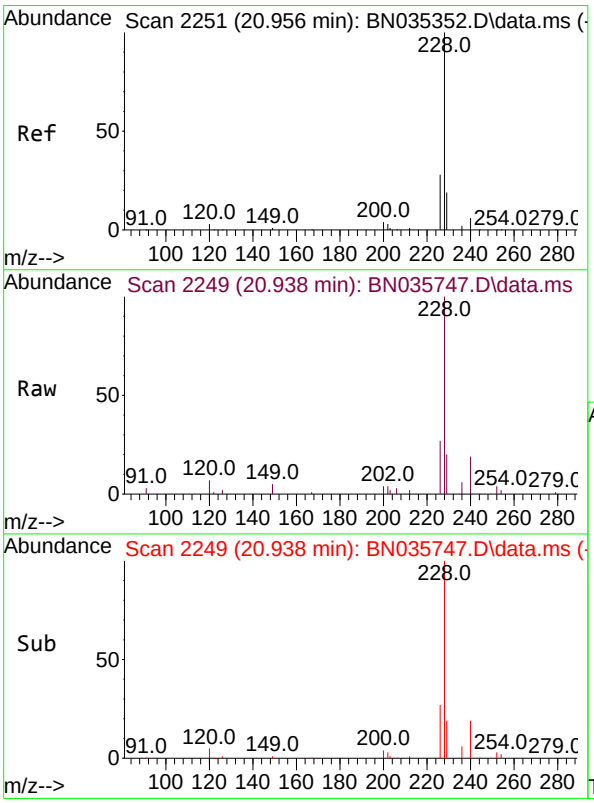
#31
Terphenyl-d14
Concen: 0.001 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 35

Ion	Ratio	Lower	Upper
244	100		
212	95.5	8.1	12.1#
122	98.5	10.3	15.5#

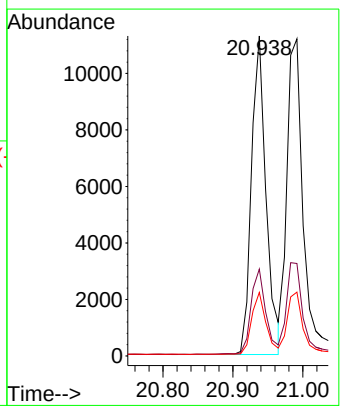


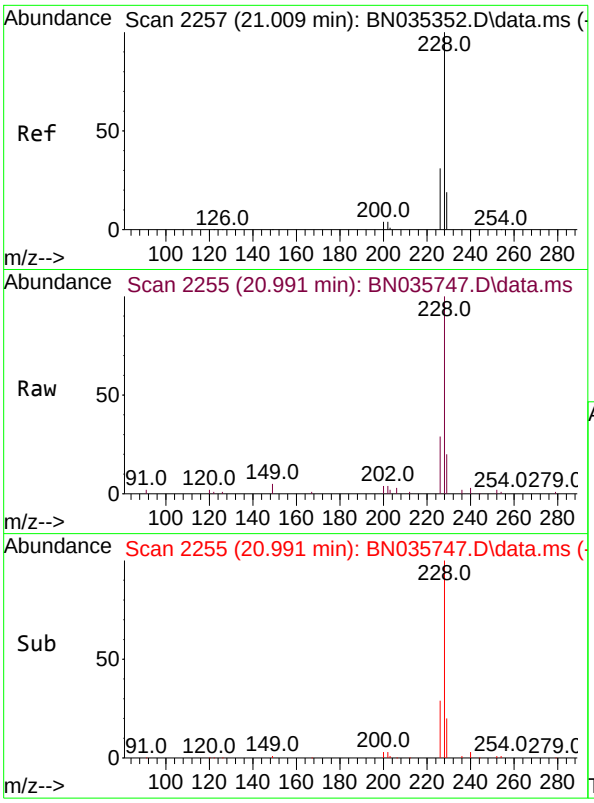


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:228 Resp: 16354

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.5	33.7
229	19.9	15.8	23.8



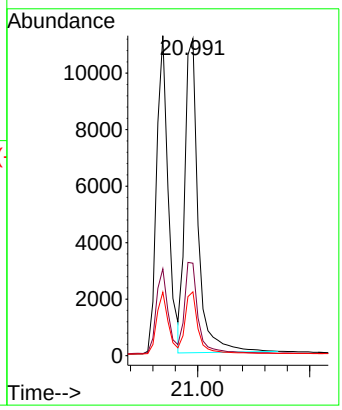


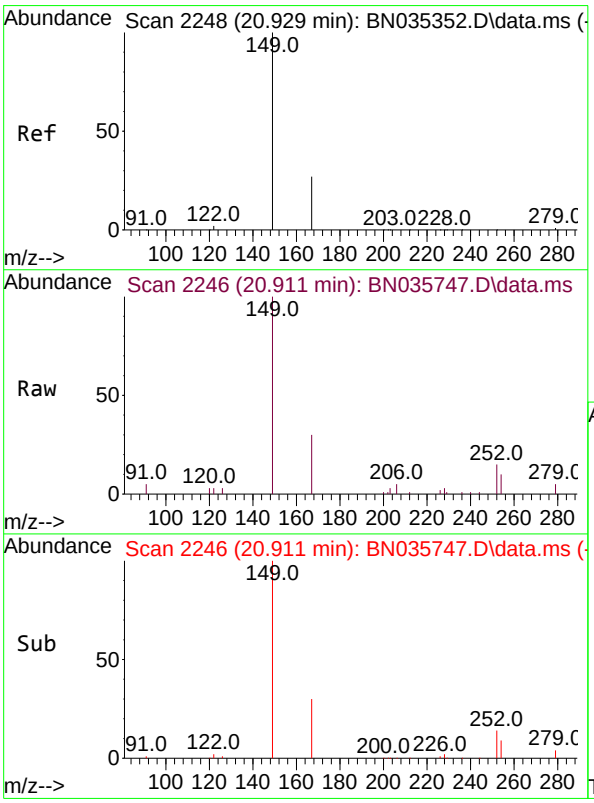
#33
Chrysene
Concen: 0.428 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 18340

Ion	Ratio	Lower	Upper
228	100		
226	29.2	24.6	37.0
229	20.1	15.9	23.9

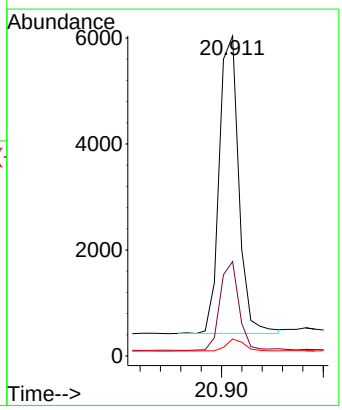


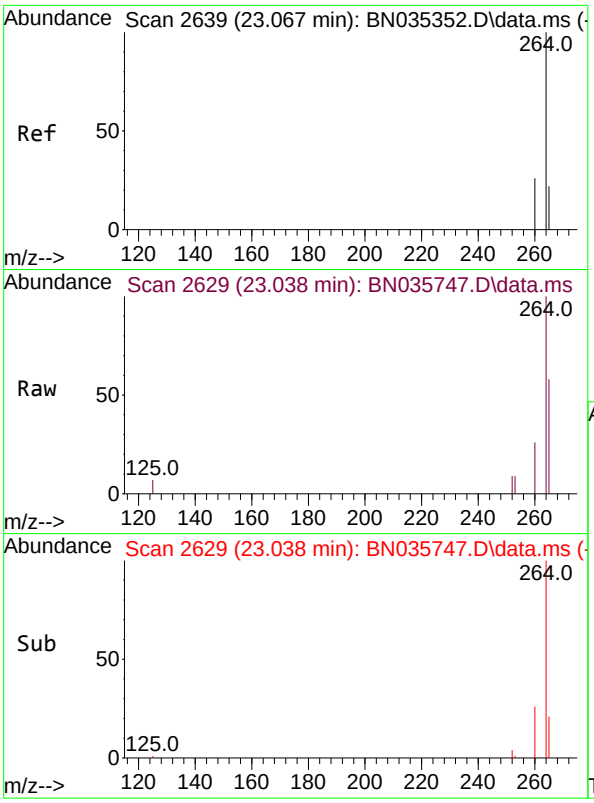


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.456 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:149 Resp: 7490

Ion	Ratio	Lower	Upper
149	100		
167	29.2	22.2	33.4
279	3.7	2.7	4.1



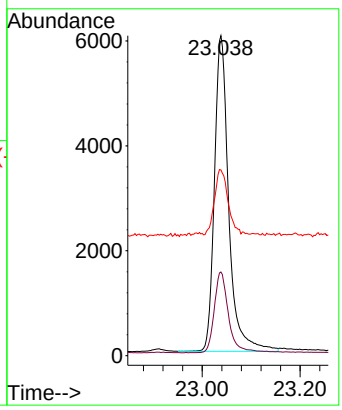


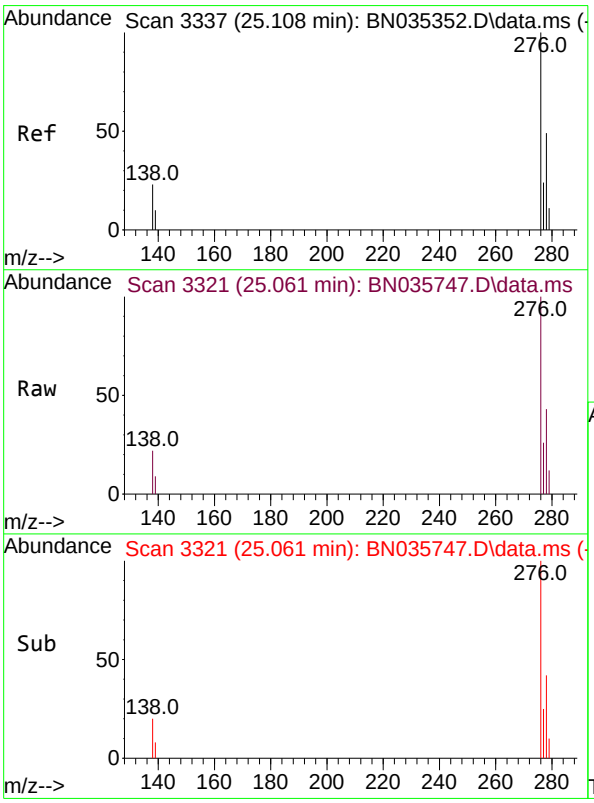
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 12200

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	58.1	40.2	60.4

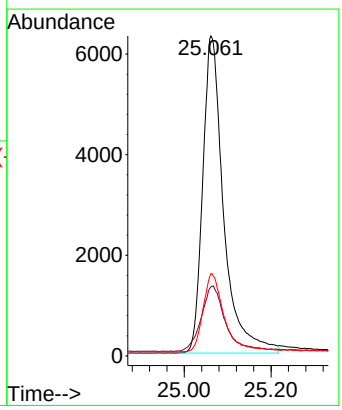


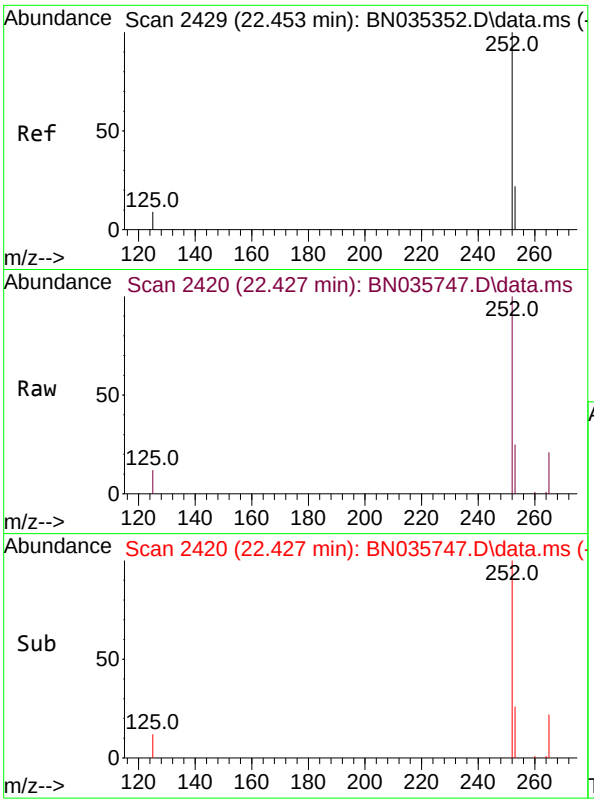


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.442 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:276 Resp: 21102

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.2	19.8	29.6



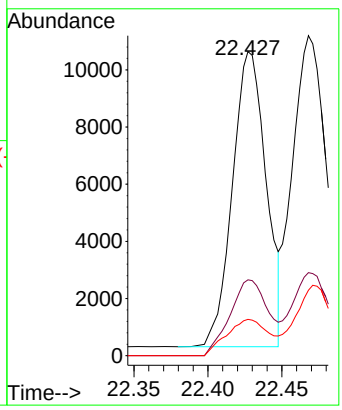


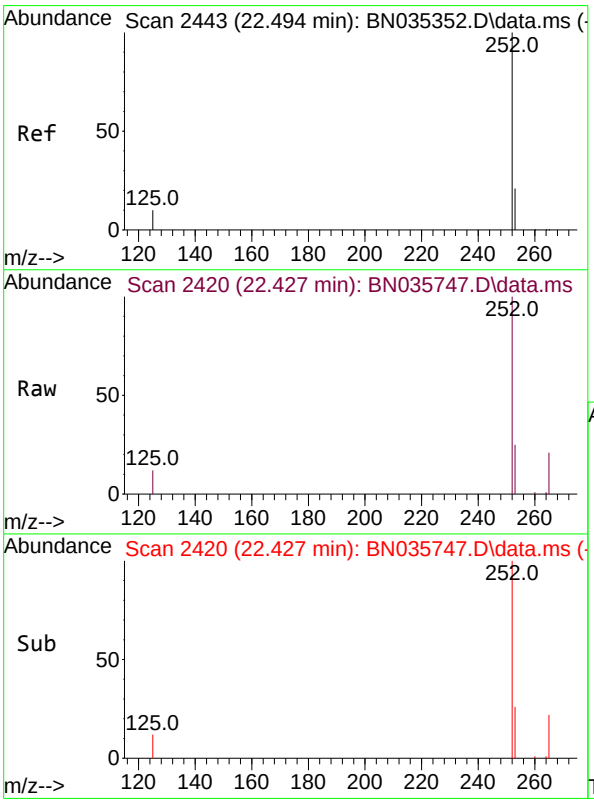
#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 21982

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	12.0	9.6	14.4

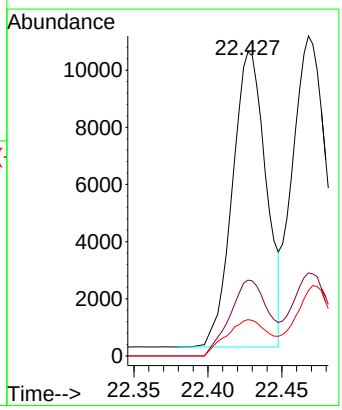


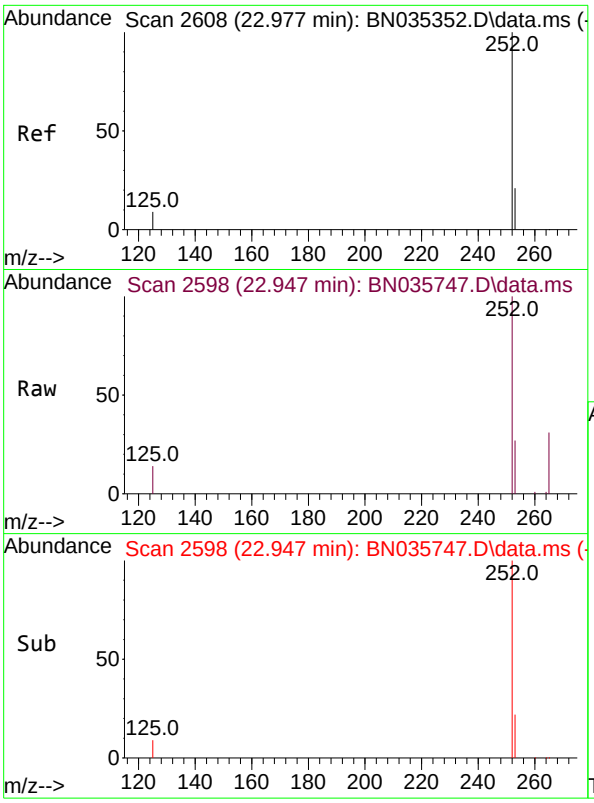


#38
Benzo(k)fluoranthene
Concen: 0.500 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 21982

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.5	29.3
125	12.0	10.2	15.4



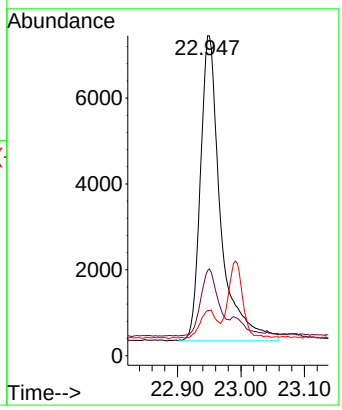


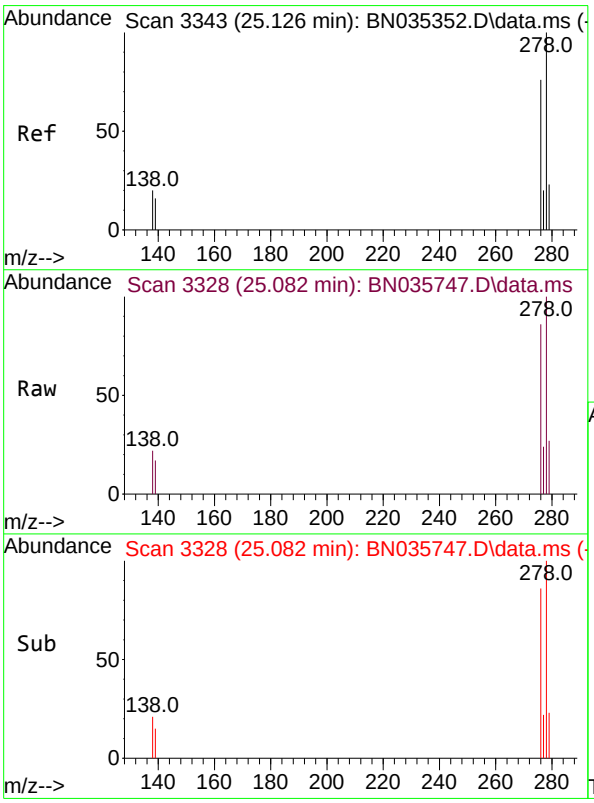
#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 15636

Ion	Ratio	Lower	Upper
252	100		
253	26.6	20.2	30.4
125	14.2	10.9	16.3

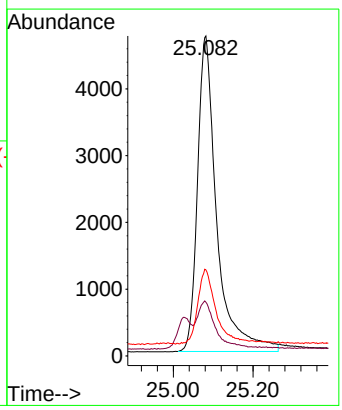


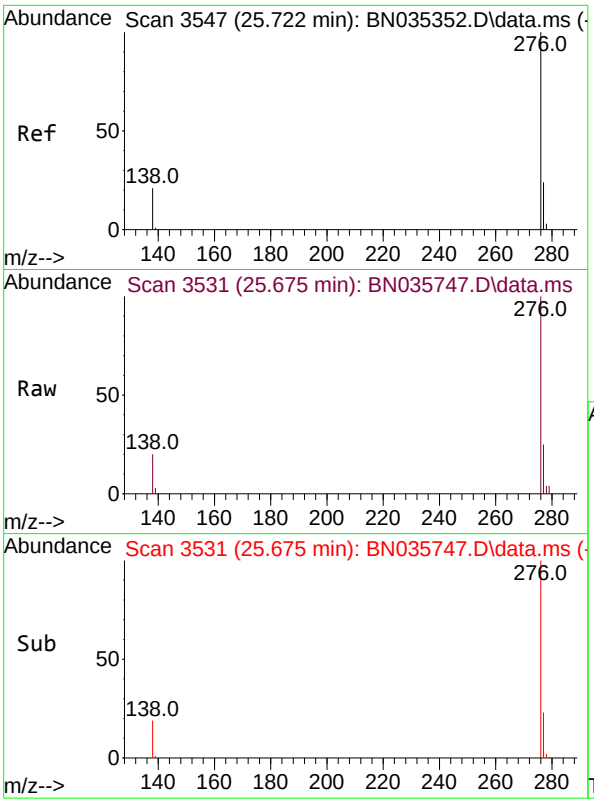


#40
Dibenzo(a,h)anthracene
Concen: 0.421 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:278 Resp: 15847

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	26.9	20.5	30.7



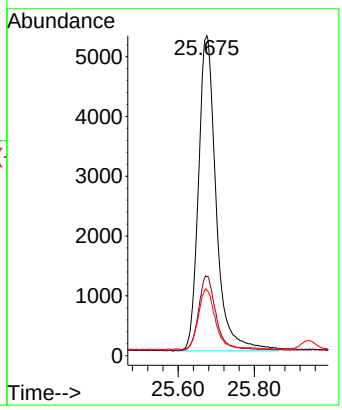


#41
Benzo(g,h,i)perylene
Concen: 0.432 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 16995

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.9	29.9
138	20.4	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

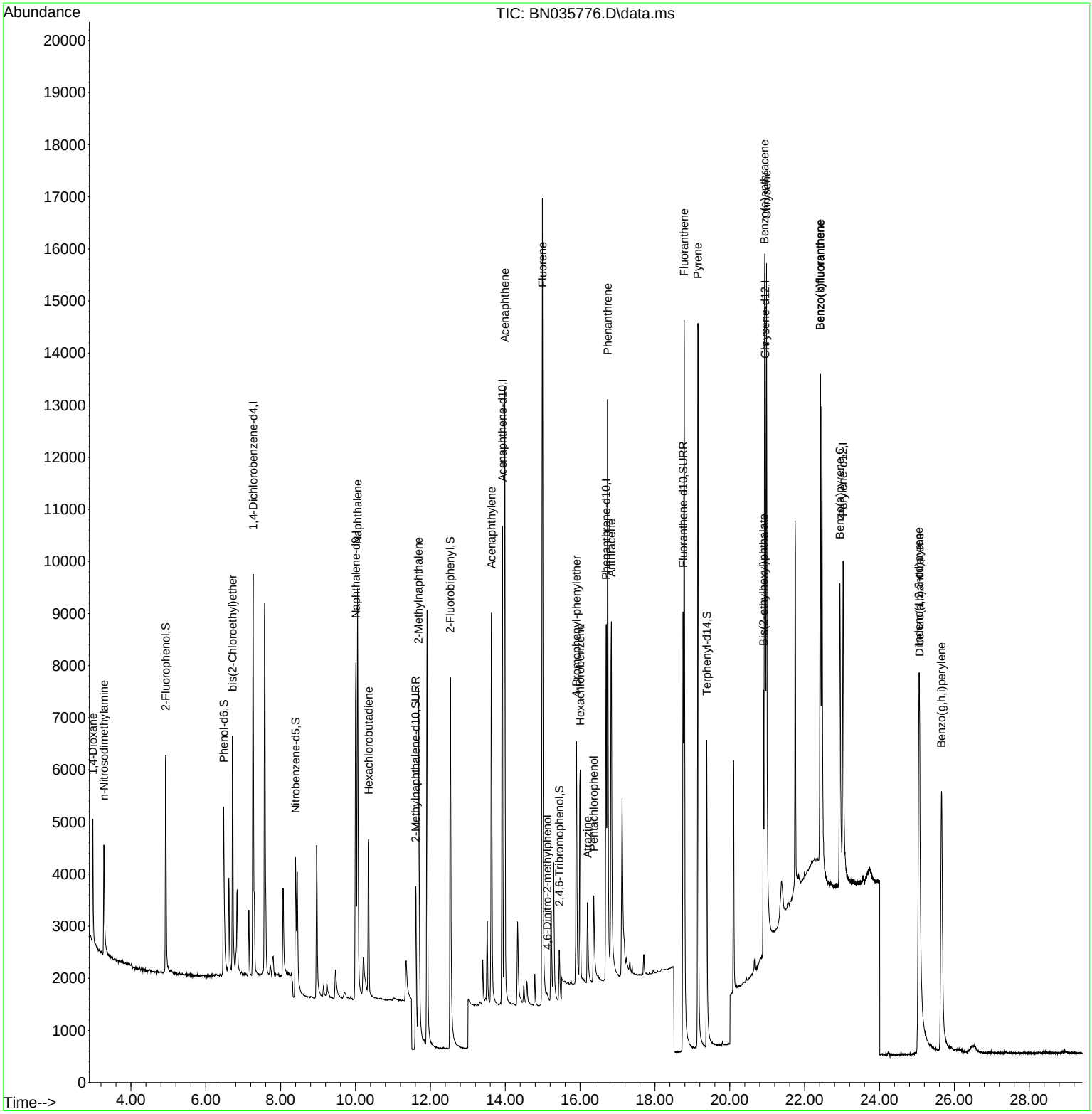
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3884	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	10099	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	5893	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8770	0.400	ng		0.00
35) Perylene-d12	23.026	264	8918	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.931	112	3917	0.403	ng		0.00
5) Phenol-d6	6.477	99	4314	0.369	ng		-0.01
8) Nitrobenzene-d5	8.397	82	3236	0.525	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6074	0.384	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1206	0.288	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	9436	0.424	ng		-0.01
27) Fluoranthene-d10	18.752	212	11979	0.366	ng		0.00
31) Terphenyl-d14	19.384	244	8267	0.478	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1665	0.448	ng		99
3) n-Nitrosodimethylamine	3.278	42	1278	0.413	ng	#	88
6) bis(2-Chloroethyl)ether	6.715	93	3946	0.402	ng		98
9) Naphthalene	10.052	128	10927	0.410	ng		99
10) Hexachlorobutadiene	10.351	225	2685	0.437	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6976	0.366	ng		98
16) Acenaphthylene	13.636	152	9517	0.385	ng		99
17) Acenaphthene	13.989	154	6826	0.415	ng		97
18) Fluorene	14.993	166	8480	0.361	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	178	0.157	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2687	0.398	ng	#	94
22) Hexachlorobenzene	16.003	284	3943	0.497	ng		95
23) Atrazine	16.202	200	1724	0.359	ng		95
24) Pentachlorophenol	16.363	266	1350	0.391	ng		89
25) Phenanthrene	16.735	178	12569	0.396	ng		100
26) Anthracene	16.835	178	10686	0.372	ng		99
28) Fluoranthene	18.780	202	15101	0.353	ng		99
30) Pyrene	19.147	202	15291	0.472	ng		99
32) Benzo(a)anthracene	20.929	228	10904	0.355	ng		99
33) Chrysene	20.982	228	14126	0.447	ng		100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4992	0.412	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	12530	0.359	ng		98
37) Benzo(b)fluoranthene	22.418	252	21074	0.646	ng		96
38) Benzo(k)fluoranthene	22.418	252	21074	0.656	ng		97
39) Benzo(a)pyrene	22.942	252	10518	0.391	ng	#	91
40) Dibenzo(a,h)anthracene	25.070	278	9258	0.337	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11833	0.412	ng		99

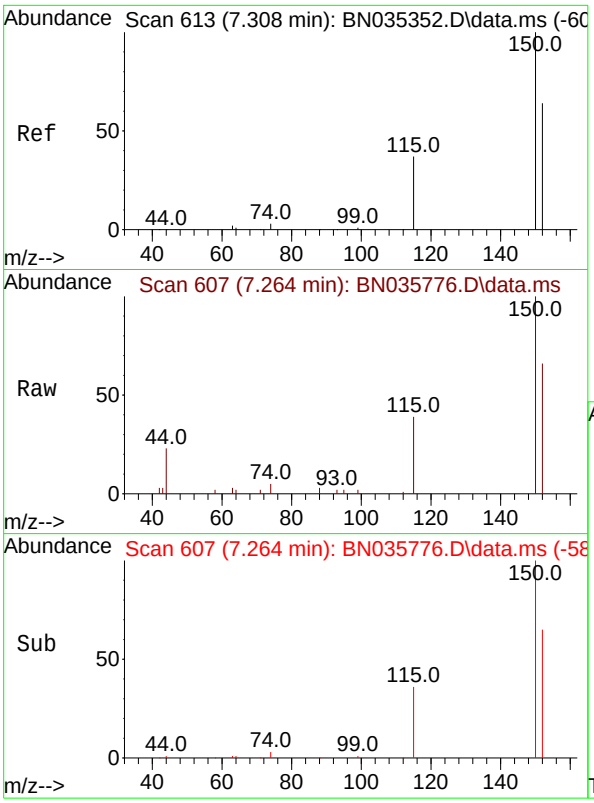
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



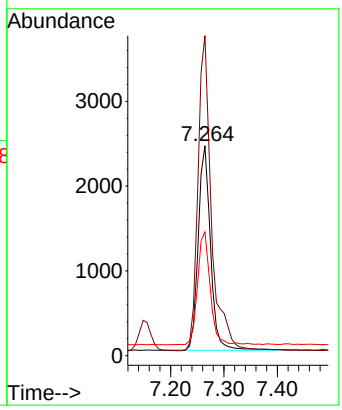


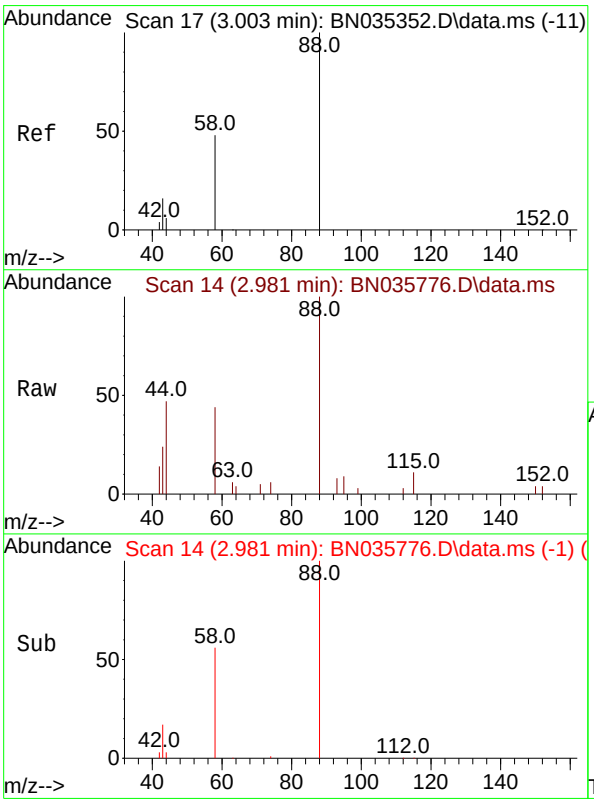
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3884

Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.0	186.0
115	58.9	49.6	74.4

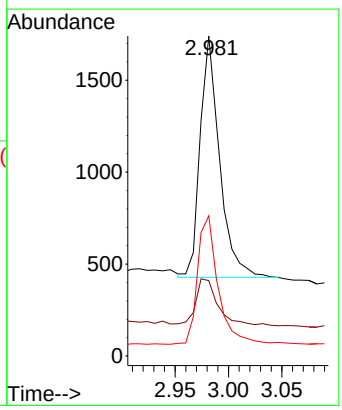


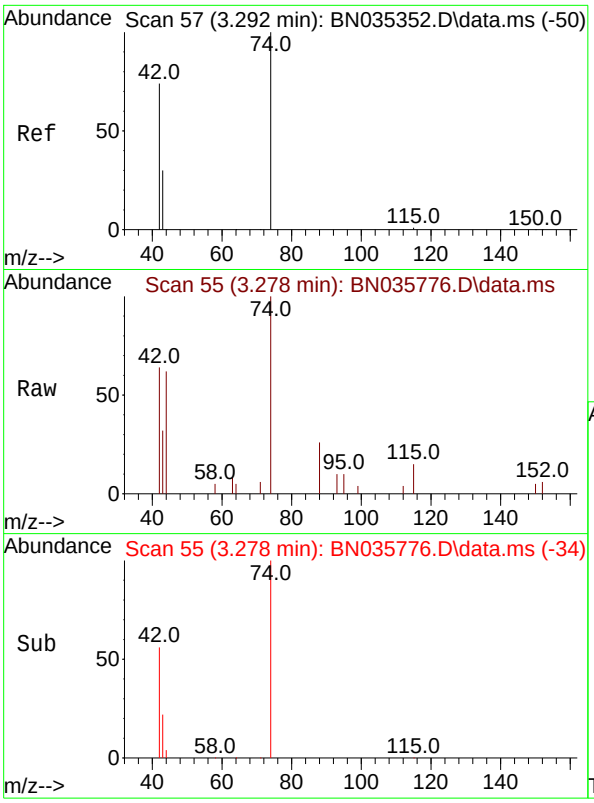


#2
1,4-Dioxane
Concen: 0.448 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 88 Resp: 1665

Ion	Ratio	Lower	Upper
88	100		
43	22.6	17.2	25.8
58	55.9	44.5	66.7



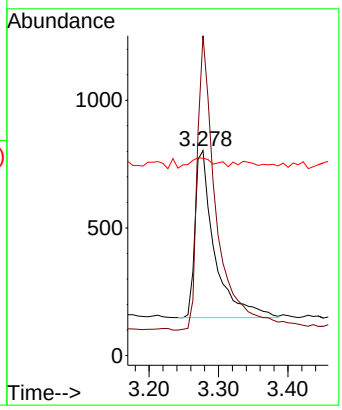


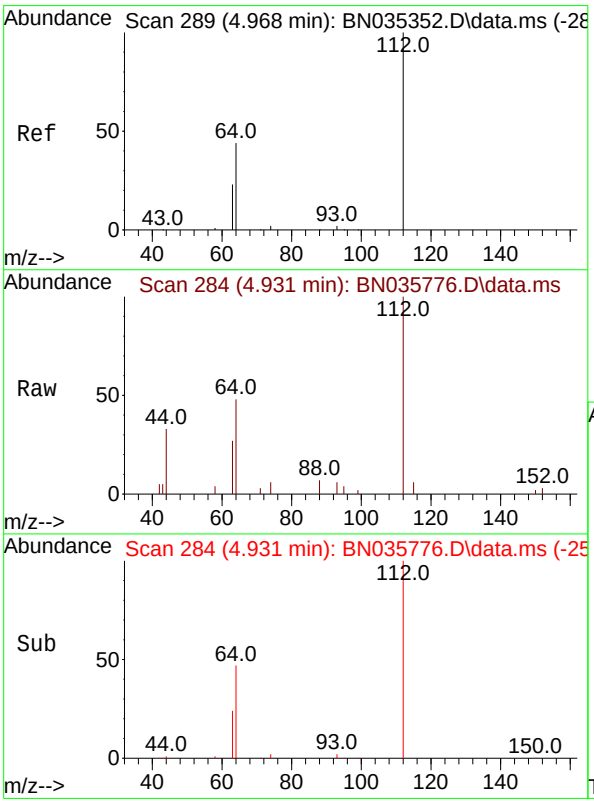
#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1278

Ion	Ratio	Lower	Upper
42	100		
74	172.3	124.9	187.3
44	6.3	2.2	3.4#

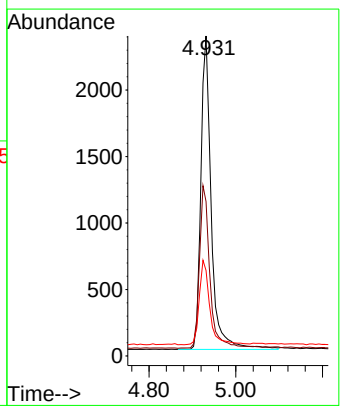


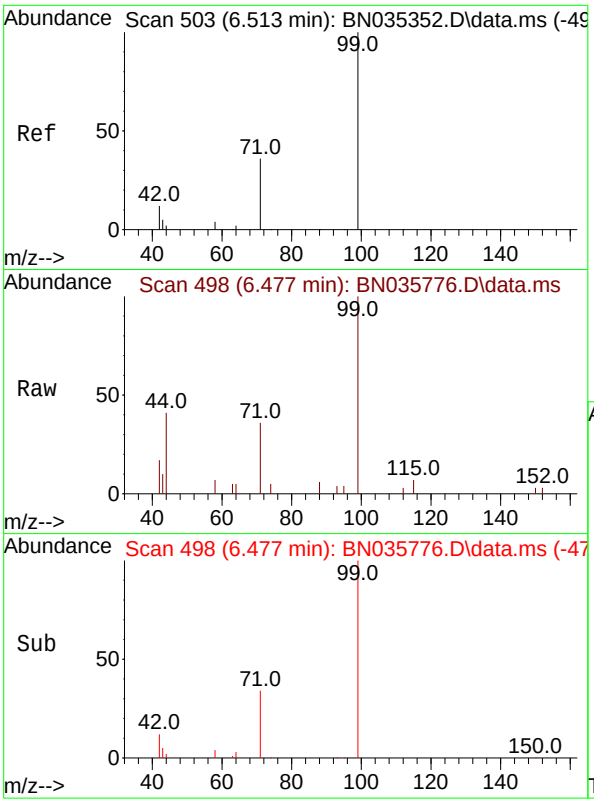


#4
2-Fluorophenol
Concen: 0.403 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:112 Resp: 3917

Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.8	59.8
63	27.2	21.0	31.6



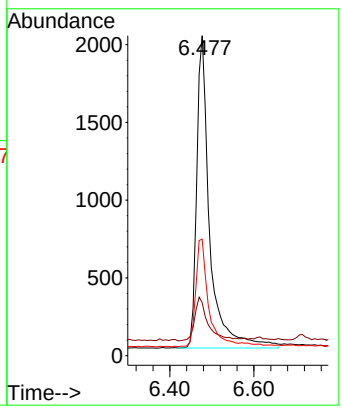


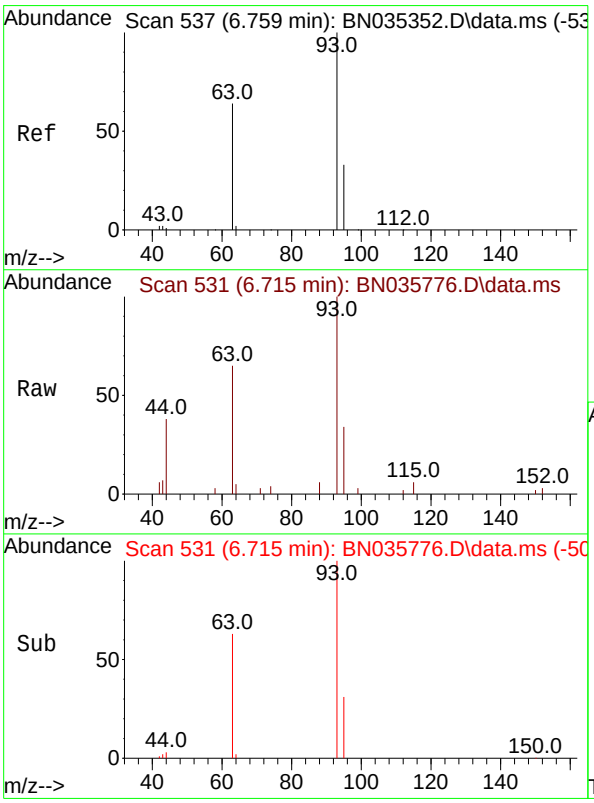
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4314

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	33.7	29.3	43.9

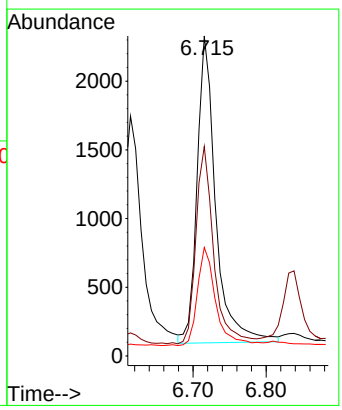


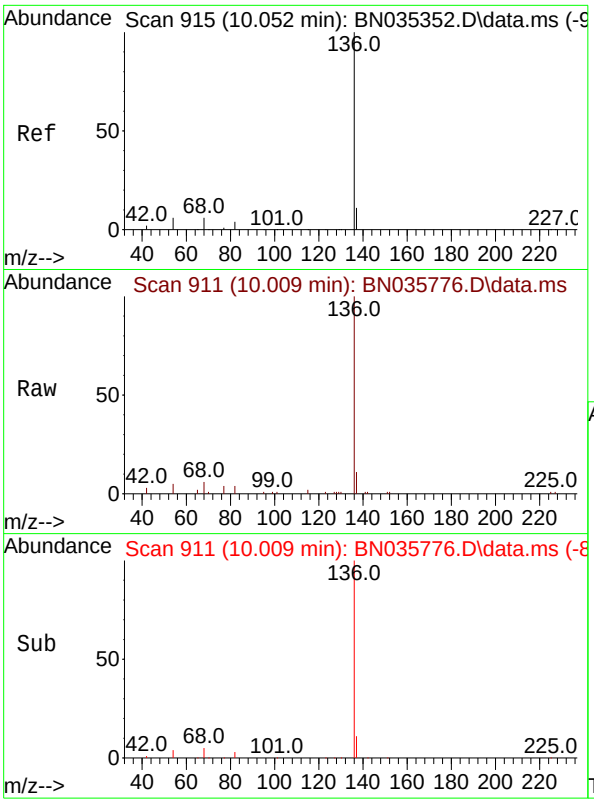


#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 93 Resp: 3946

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	31.7	25.7	38.5



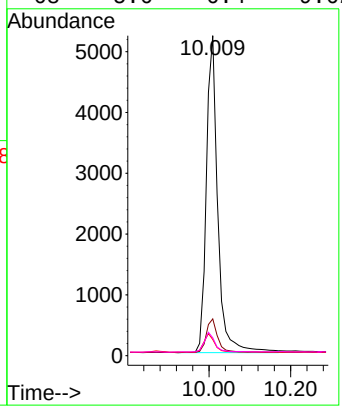


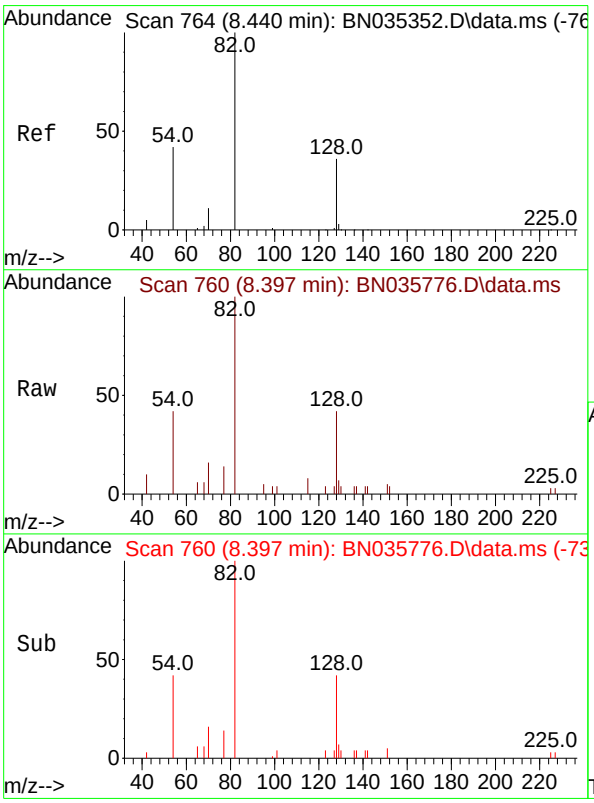
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 10099

Ion	Ratio	Lower	Upper
136	100		
137	11.5	10.2	15.2
54	5.0	6.1	9.1#
68	5.6	6.4	9.6#

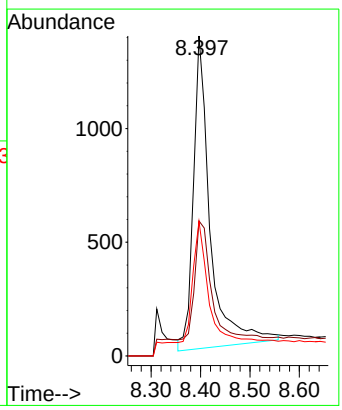


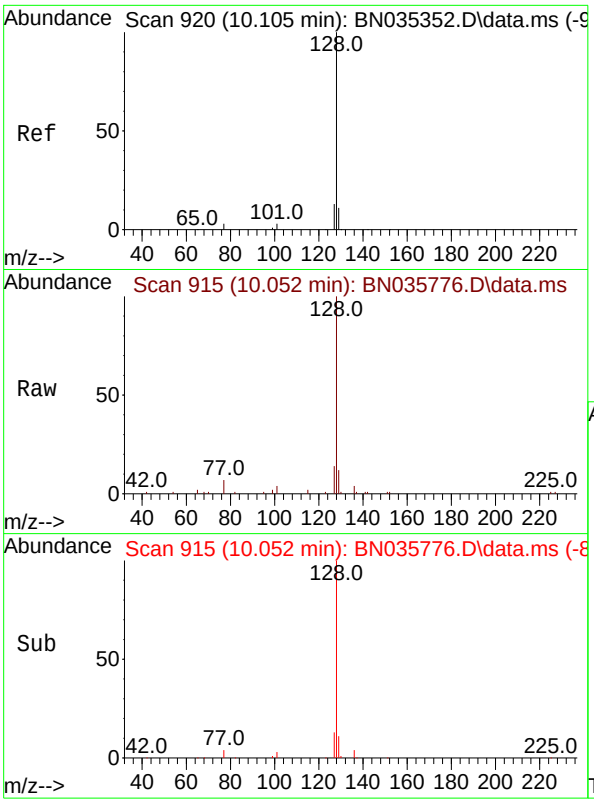


#8
Nitrobenzene-d5
Concen: 0.525 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 82 Resp: 3236

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.4	50.0
54	42.1	36.7	55.1



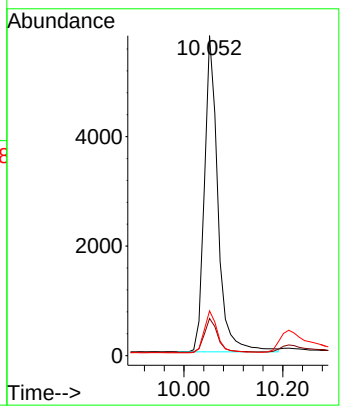


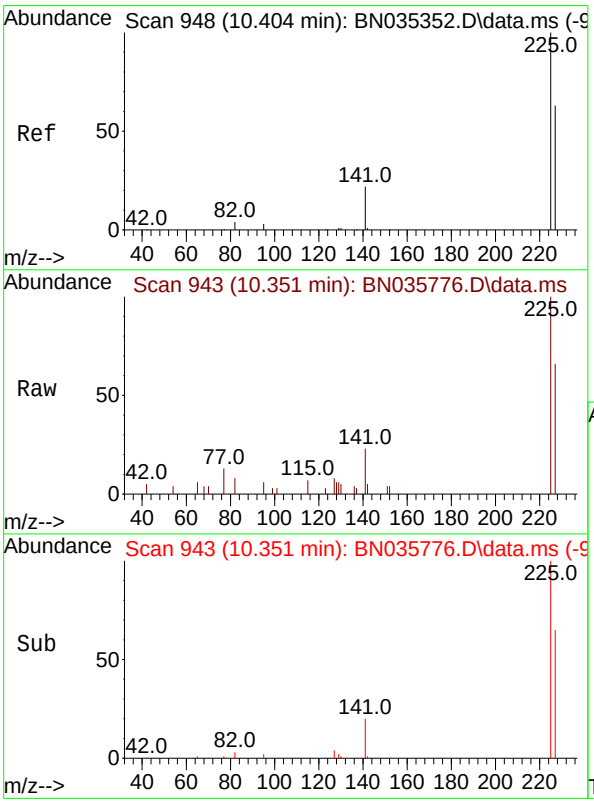
#9
Naphthalene
Concen: 0.410 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 10927

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2

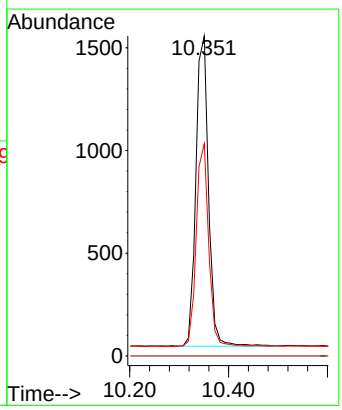


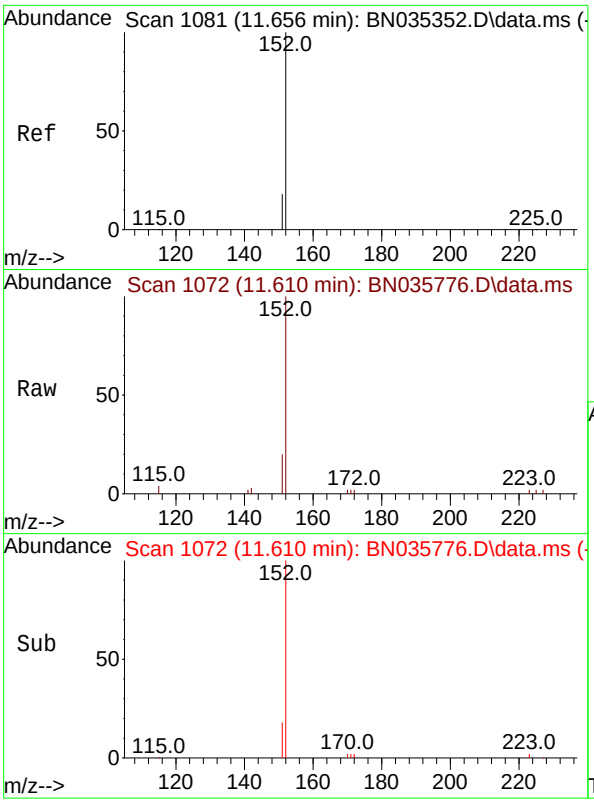


#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:225 Resp: 2685

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9



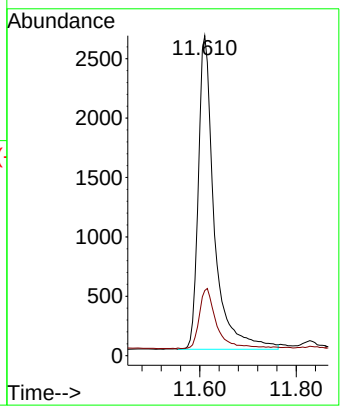


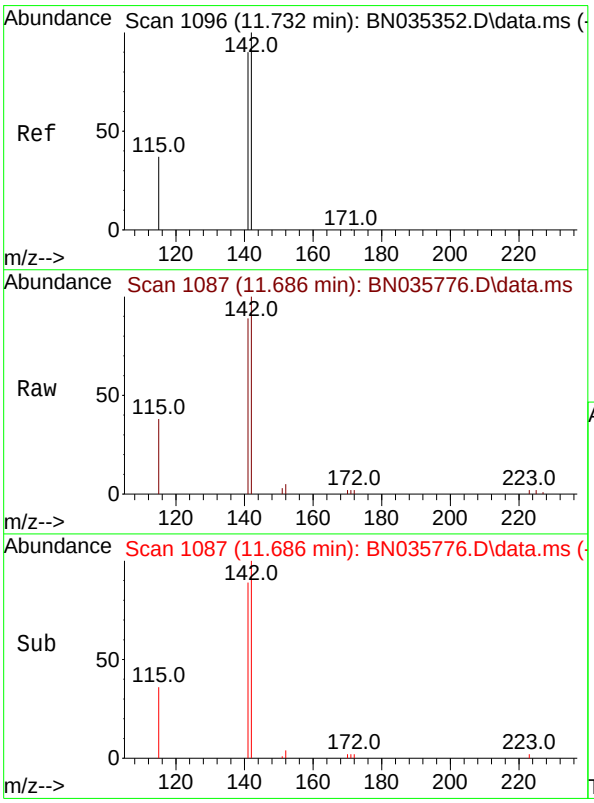
#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6074

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

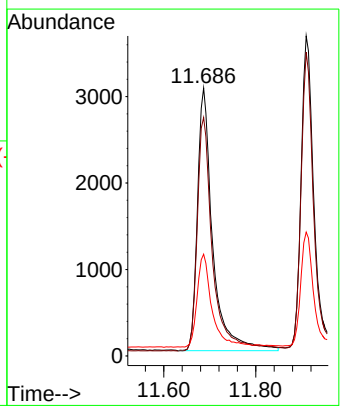


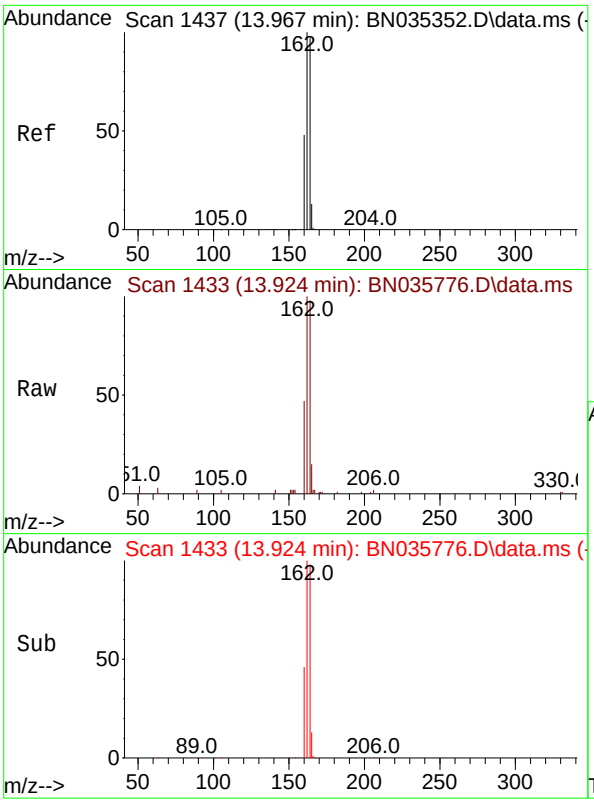


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:142 Resp: 6976

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	38.0	31.4	47.0



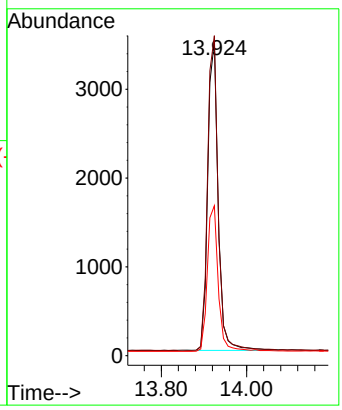


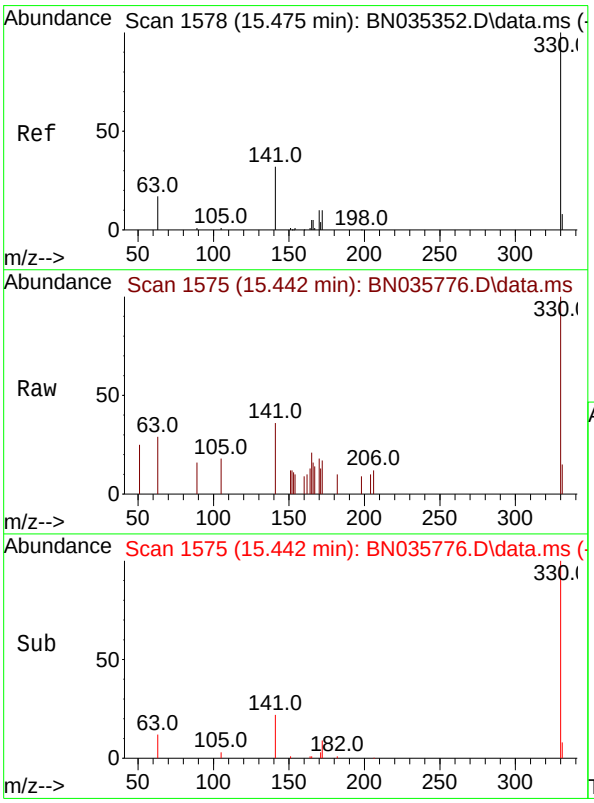
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5893

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	47.7	40.1	60.1

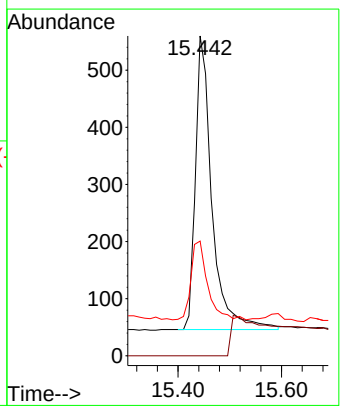


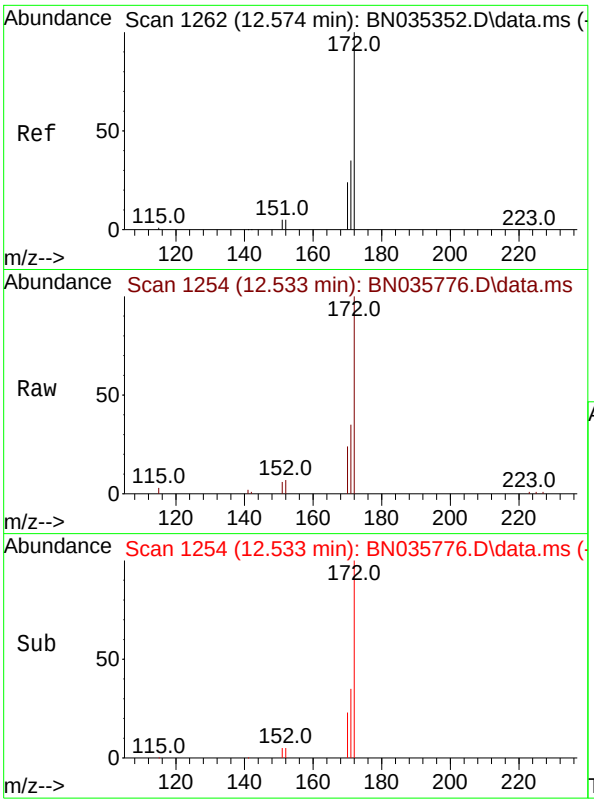


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:330 Resp: 1206

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.3	26.6	40.0#



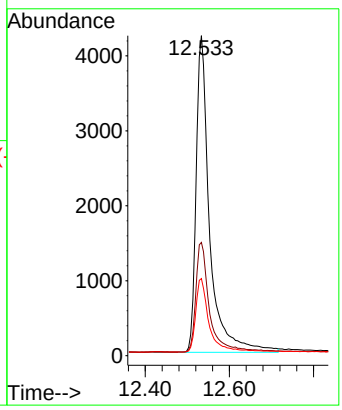


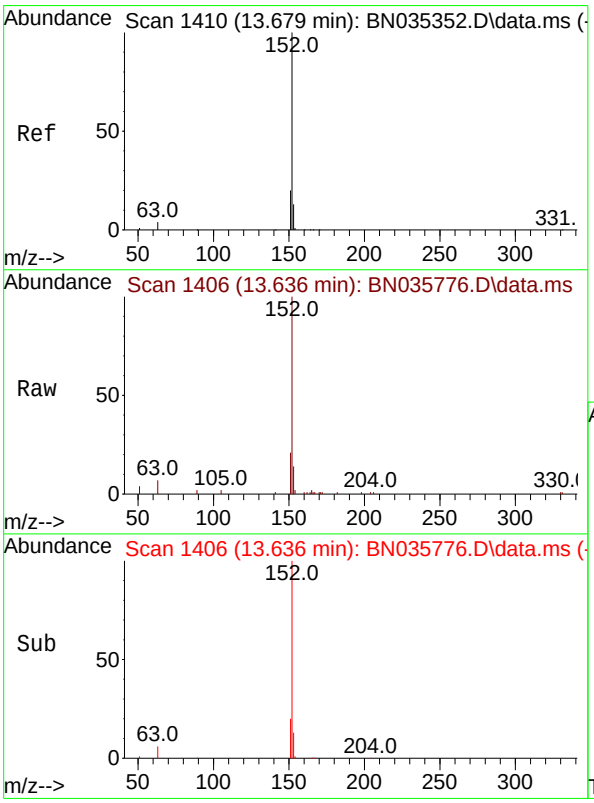
#15
2-Fluorobiphenyl
Concen: 0.424 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 9436

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.4
170	24.1	19.8	29.8

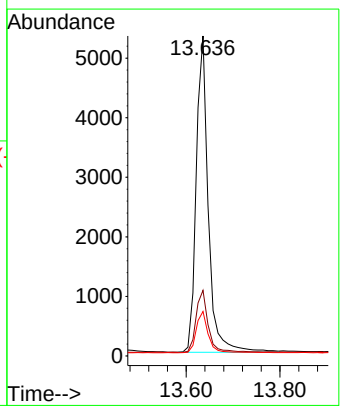


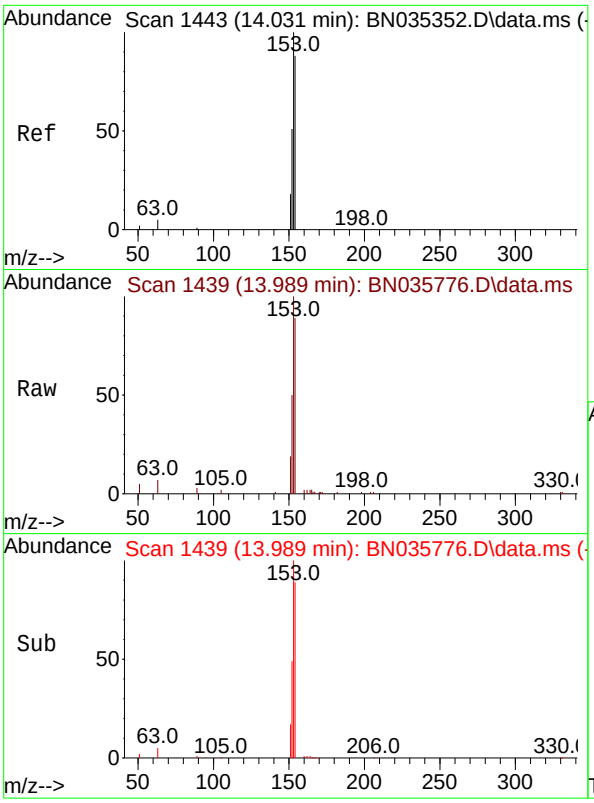


#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 9517

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6



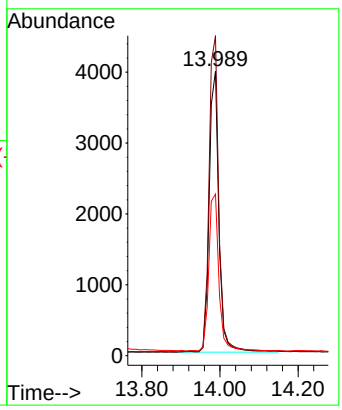


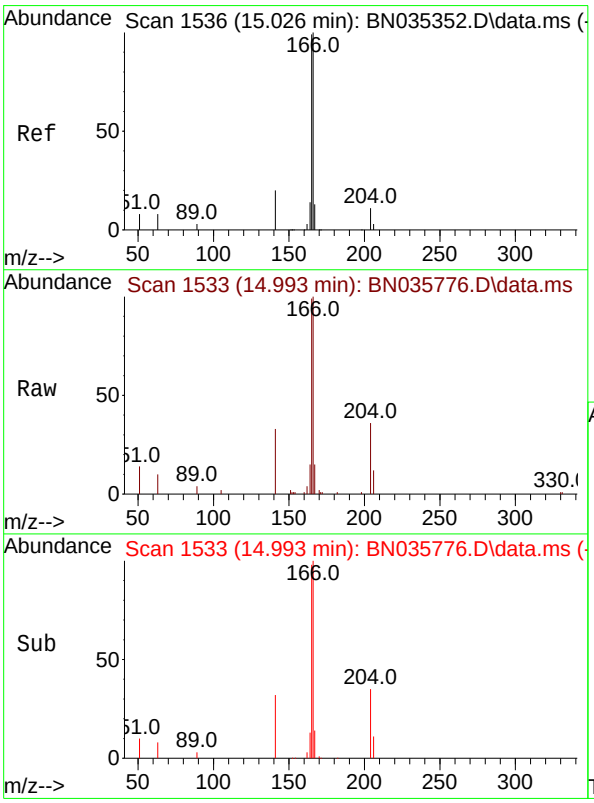
#17
Acenaphthene
Concen: 0.415 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 6826

Ion	Ratio	Lower	Upper
154	100		
153	113.5	92.6	139.0
152	58.5	49.0	73.6

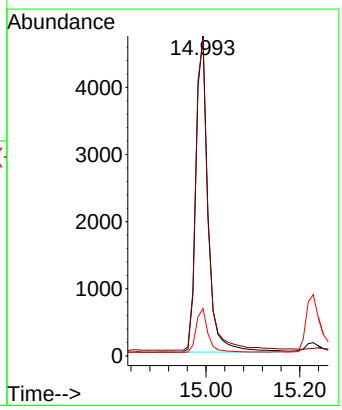


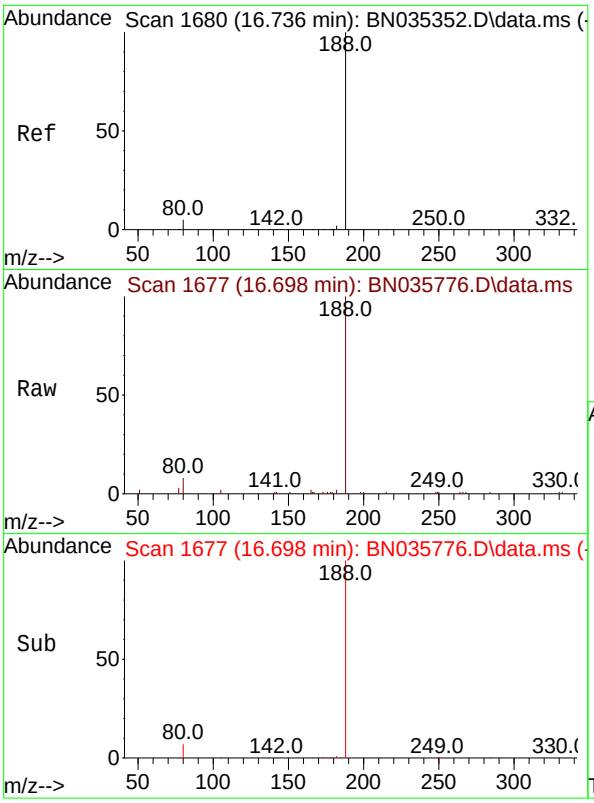


#18
Fluorene
Concen: 0.361 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:166 Resp: 8480

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.6	10.8	16.2



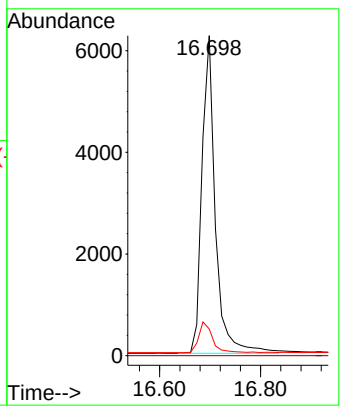


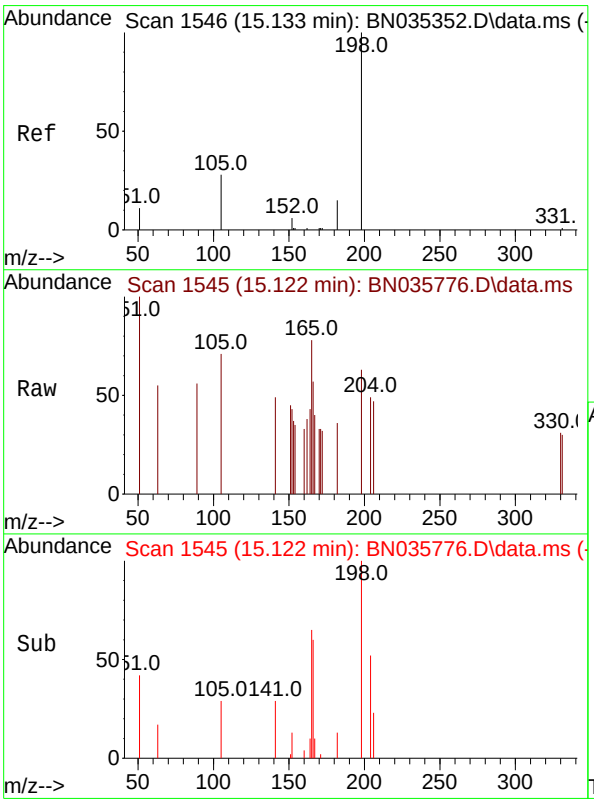
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11548

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.6	6.8#

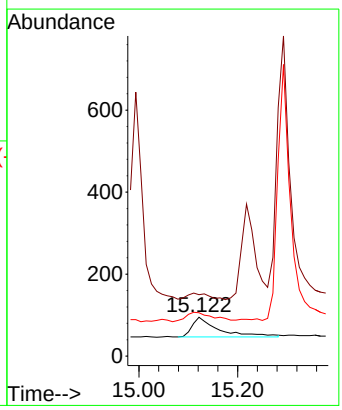


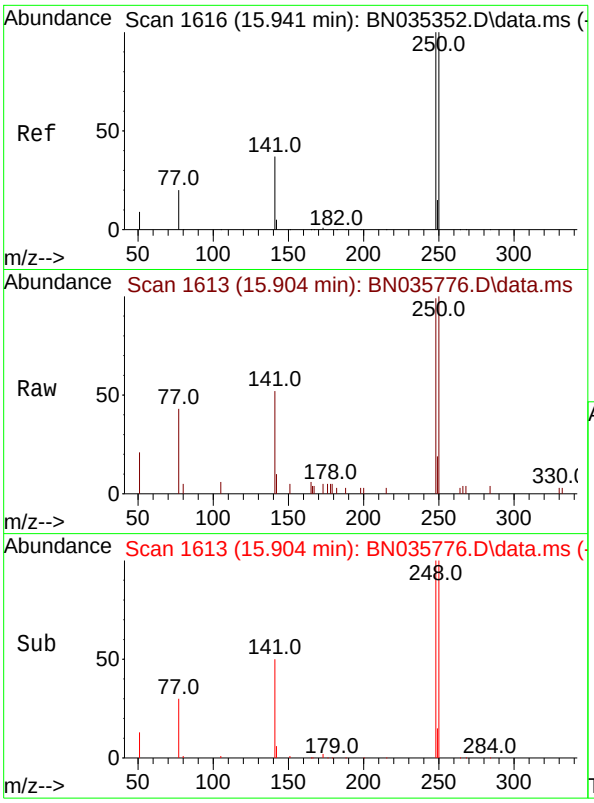


#20
4,6-Dinitro-2-methylphenol
Concen: 0.157 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:198 Resp: 178

Ion	Ratio	Lower	Upper
198	100		
51	157.9	46.5	69.7#
105	111.6	45.3	67.9#



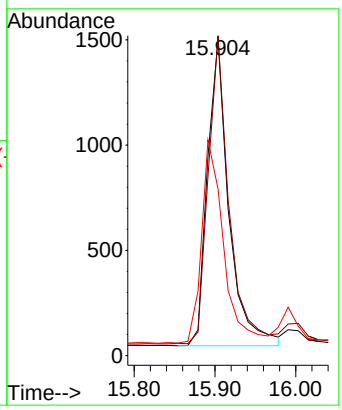


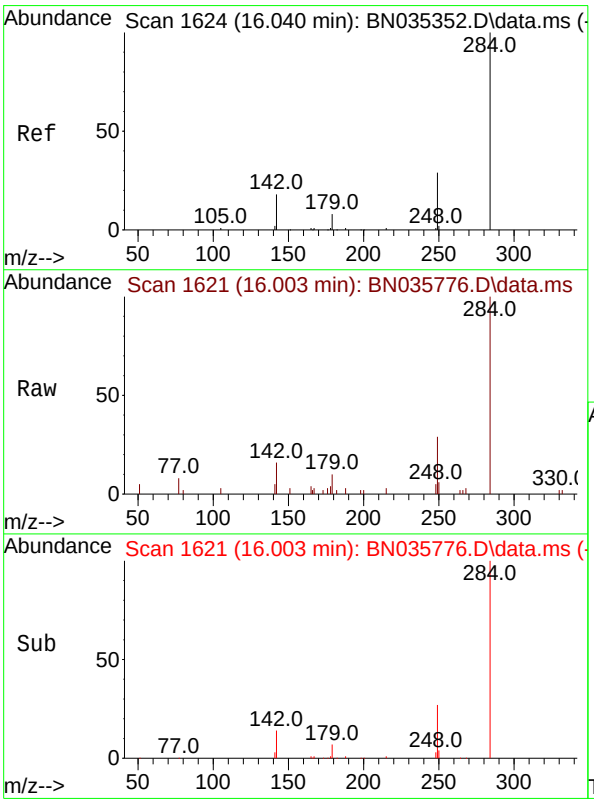
#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2687

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	52.5	31.5	47.3#

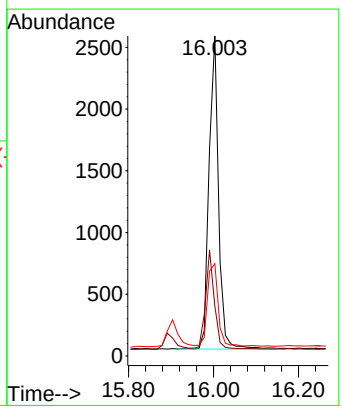


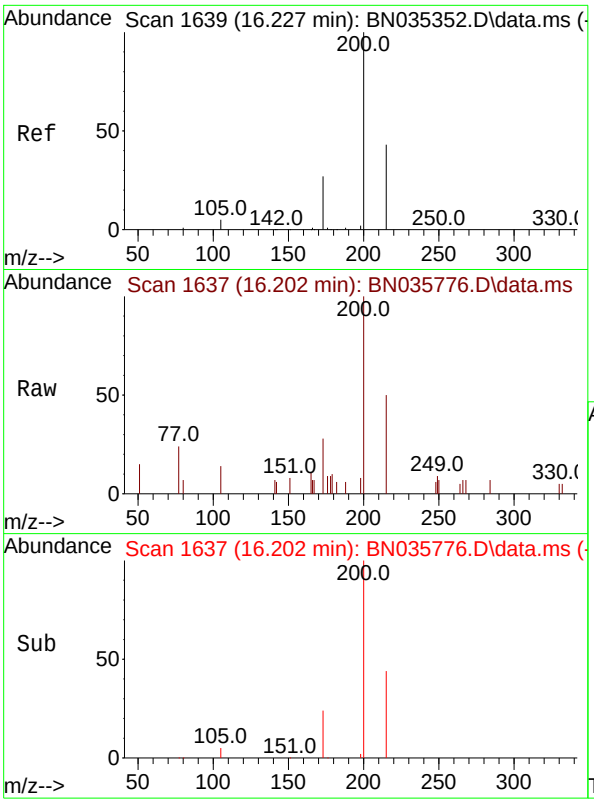


#22
Hexachlorobenzene
Concen: 0.497 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:284 Resp: 3943

Ion	Ratio	Lower	Upper
284	100		
142	29.0	26.7	40.1
249	29.3	24.6	36.8



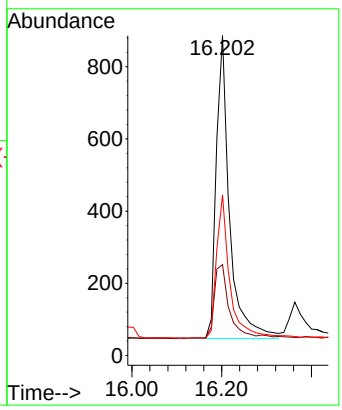


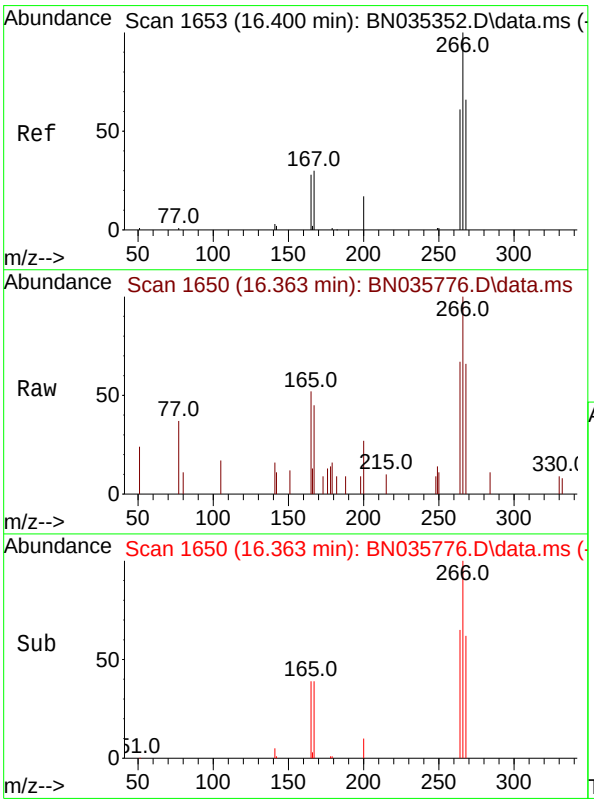
#23
Atrazine
Concen: 0.359 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1724

Ion	Ratio	Lower	Upper
200	100		
173	28.4	24.1	36.1
215	50.2	36.9	55.3

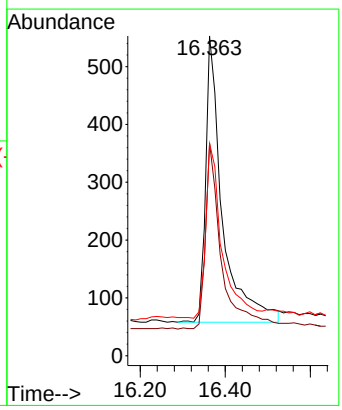


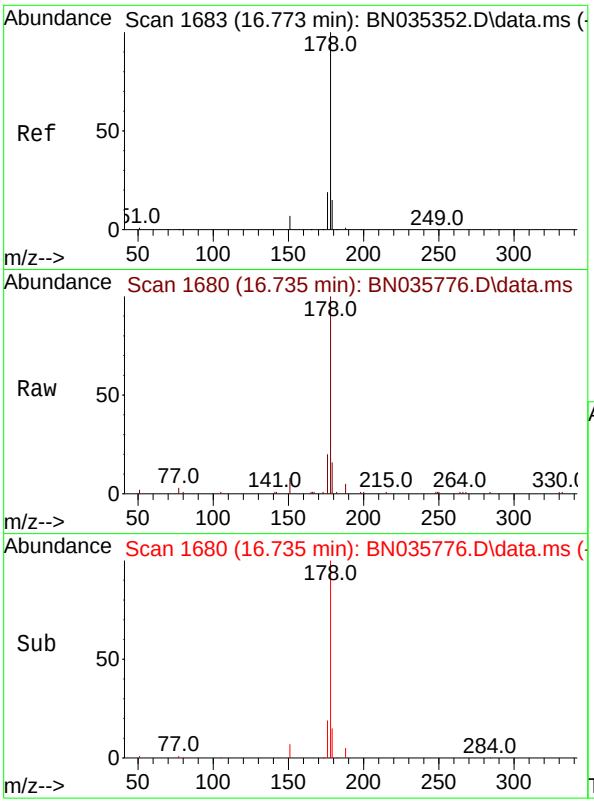


#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:266 Resp: 1350

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	59.1	43.3	64.9



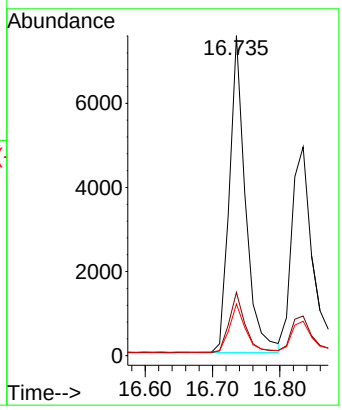


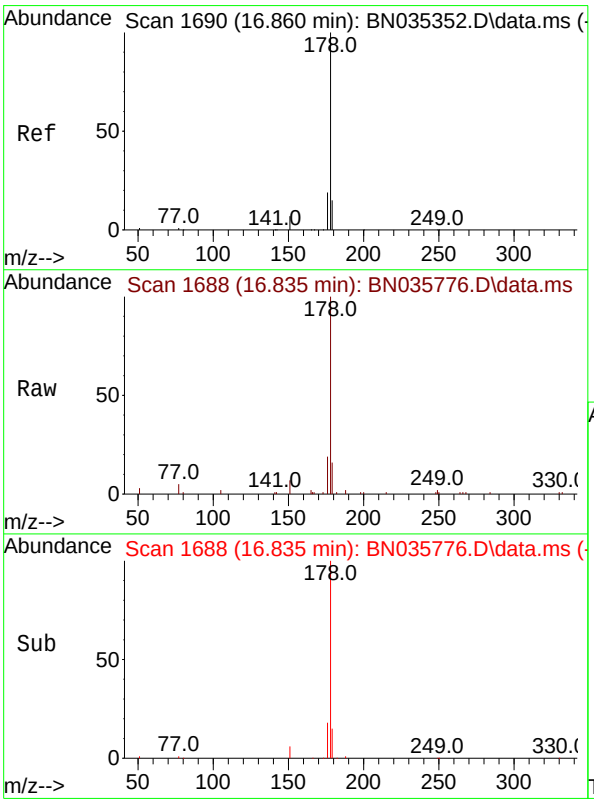
#25
Phenanthrene
Concen: 0.396 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 12569

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.5	12.3	18.5

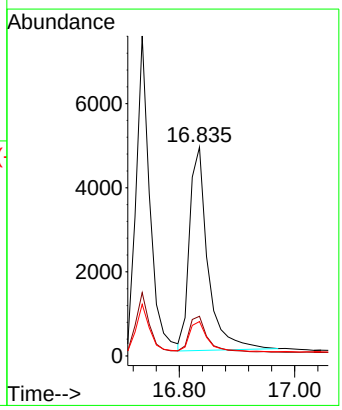


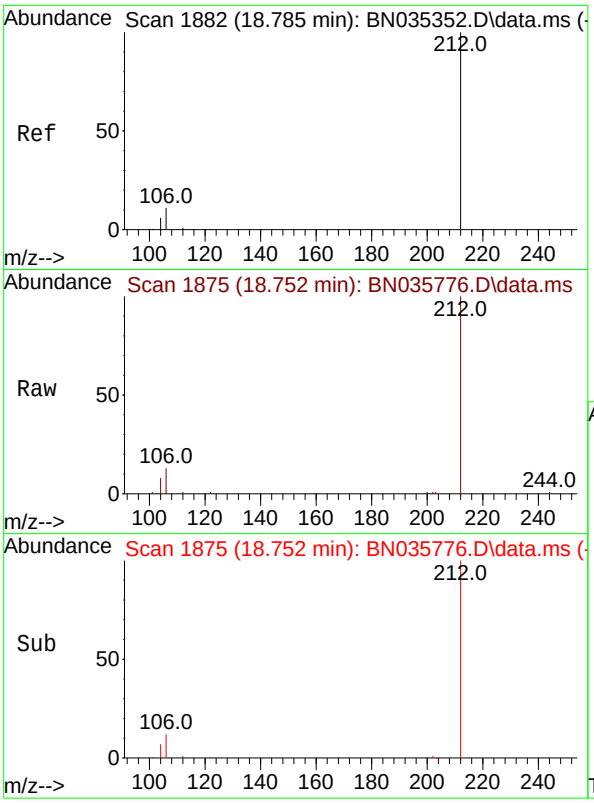


#26
Anthracene
Concen: 0.372 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:178 Resp: 10686

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8



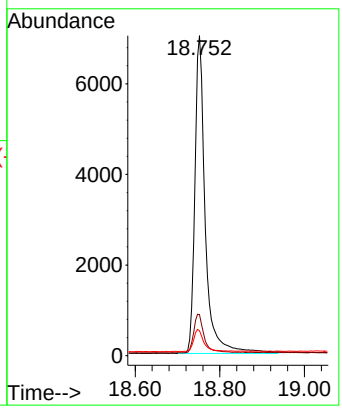


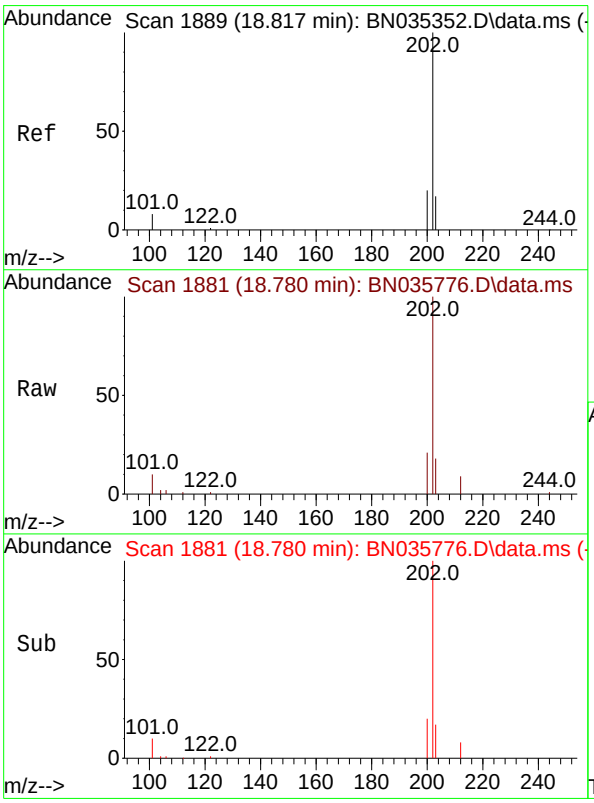
#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11979

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.9	5.3	7.9

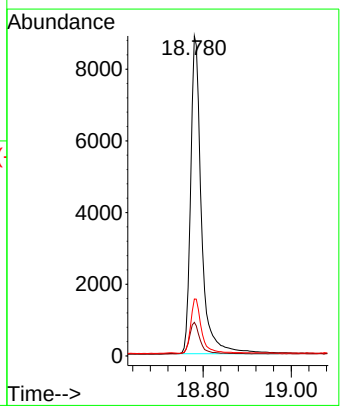


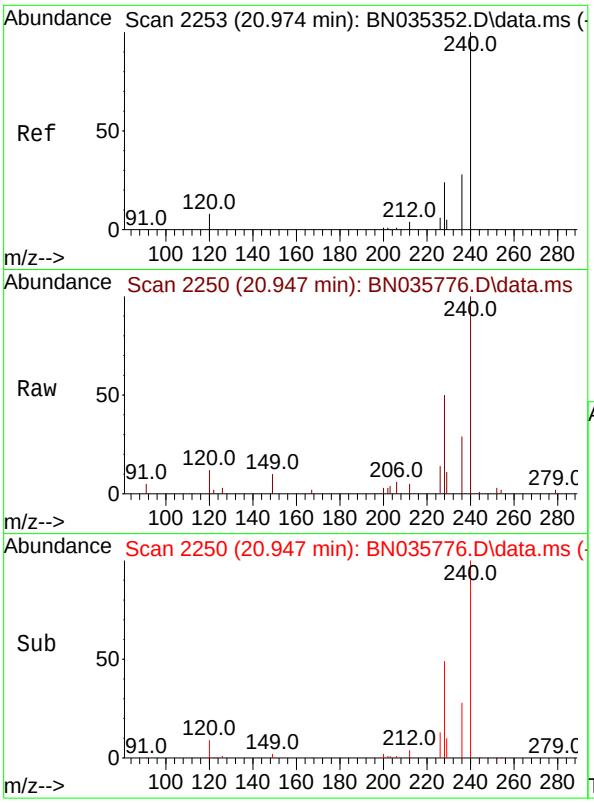


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15101

Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.4	11.0
203	17.2	13.7	20.5



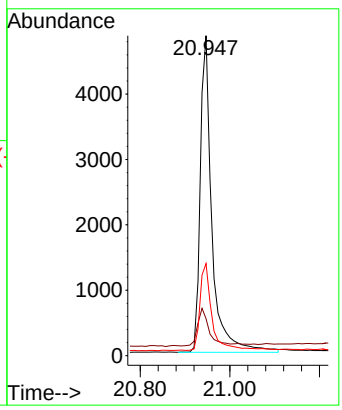


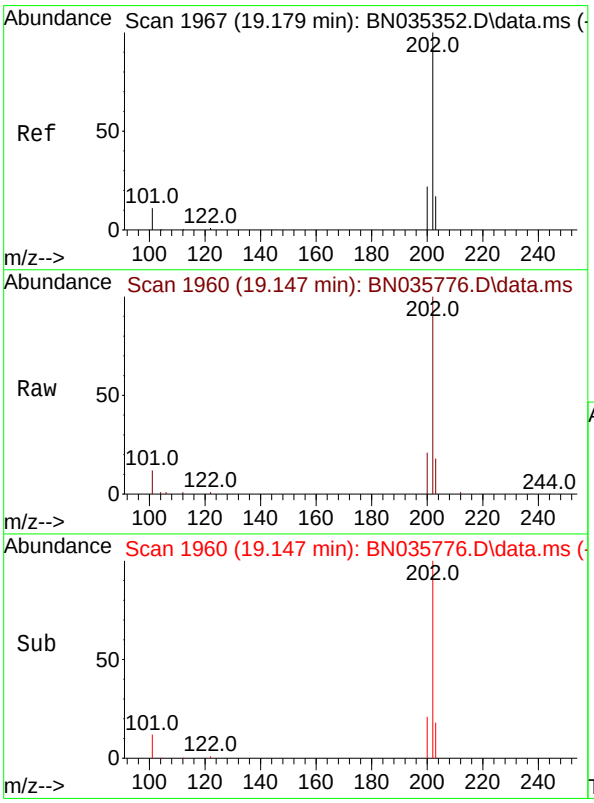
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8770

Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.9	11.9
236	28.8	22.9	34.3

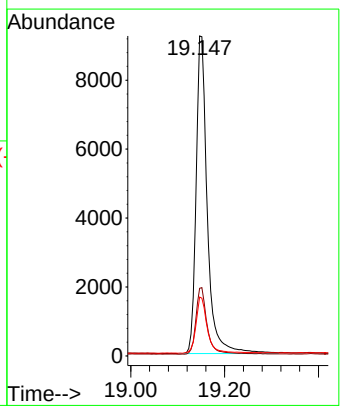


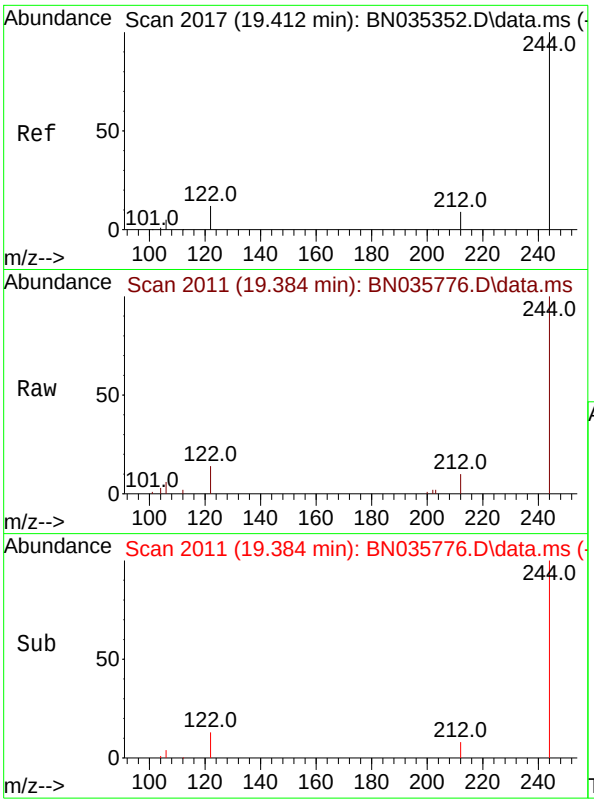


#30
Pyrene
Concen: 0.472 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15291

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.9	14.3	21.5



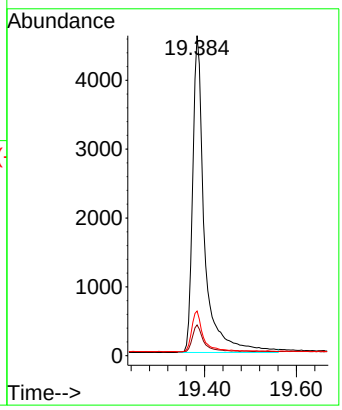


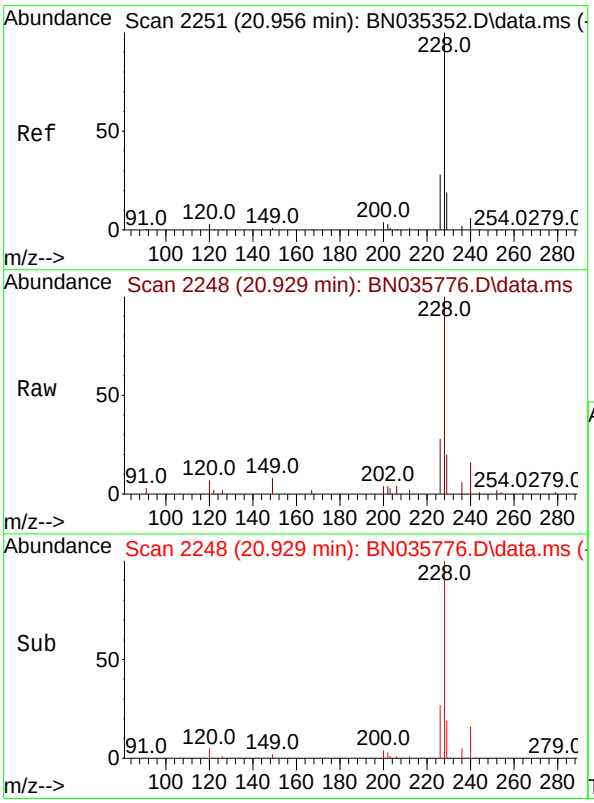
#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 8267

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.9	10.3	15.5

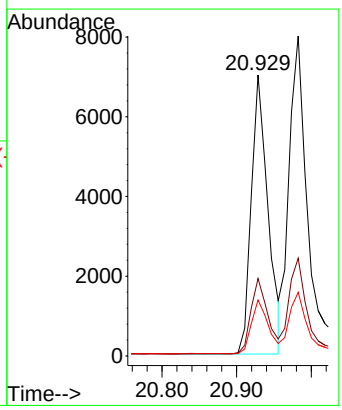


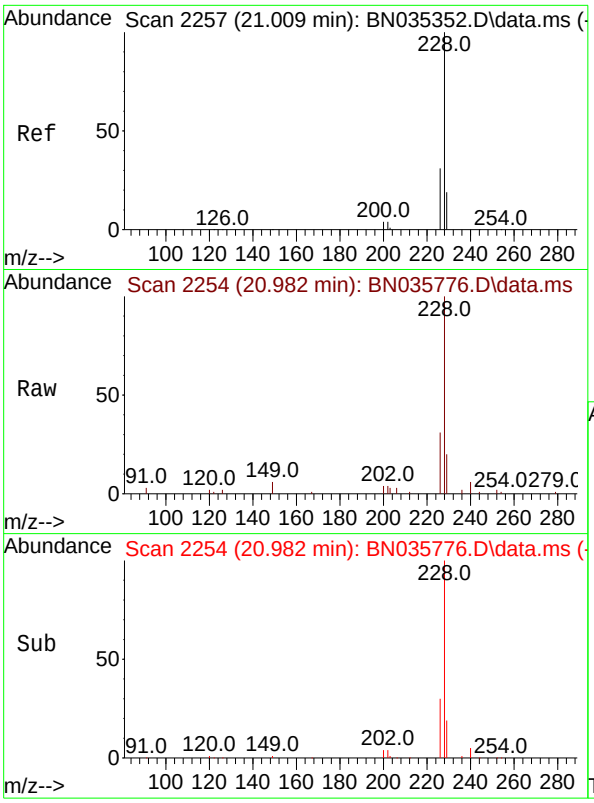


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 10904

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.9	15.8	23.8



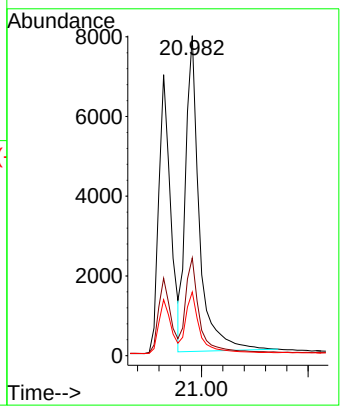


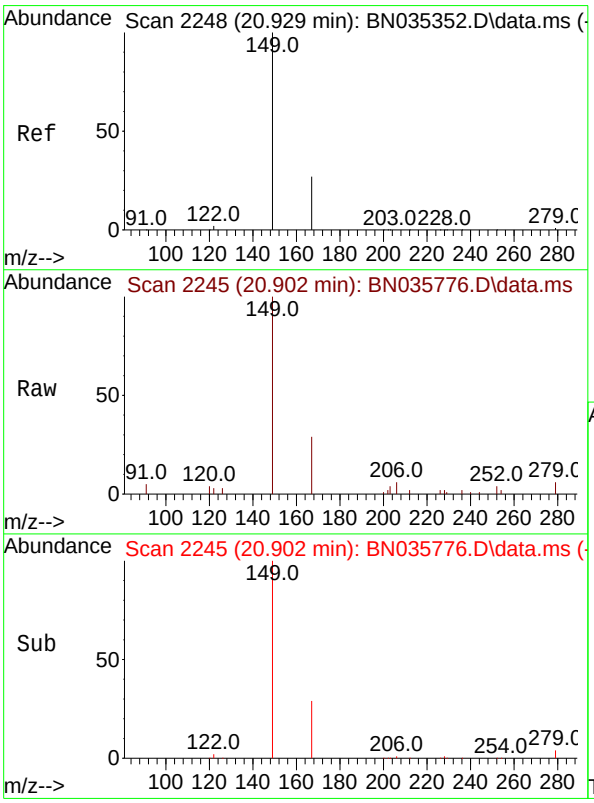
#33
Chrysene
Concen: 0.447 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 14126

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.9	15.9	23.9

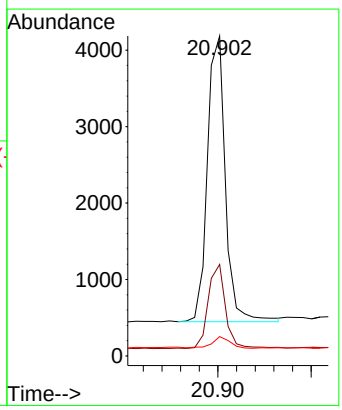


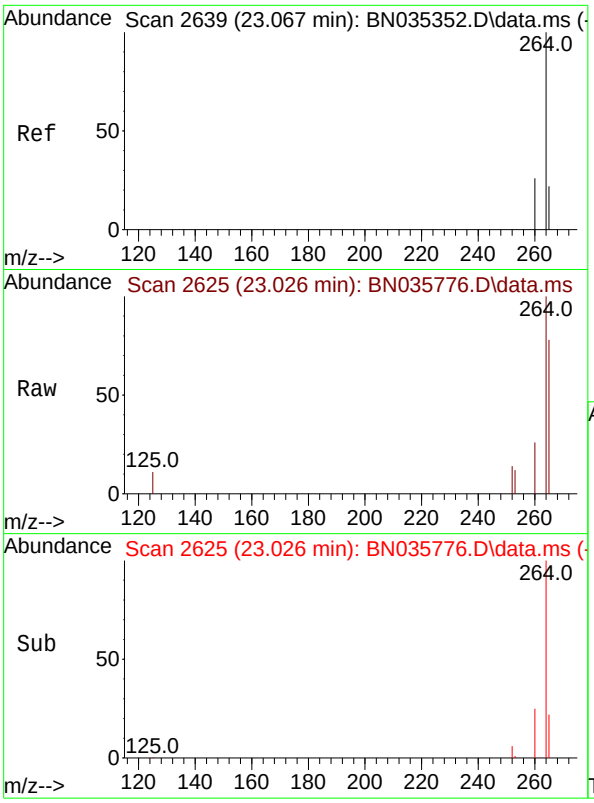


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:149 Resp: 4992

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.0	2.7	4.1



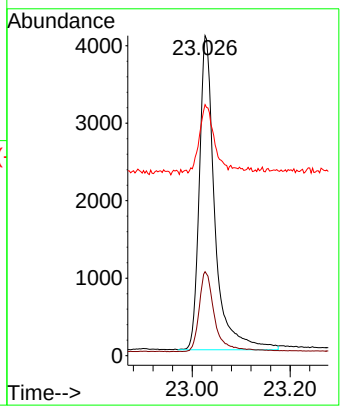


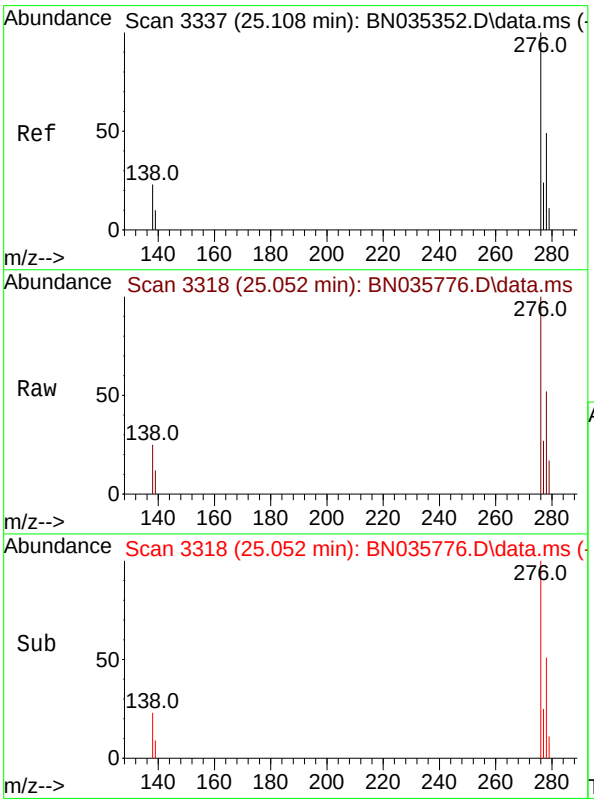
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8918

Ion	Ratio	Lower	Upper
264	100		
260	26.3	21.4	32.2
265	78.5	40.2	60.4#

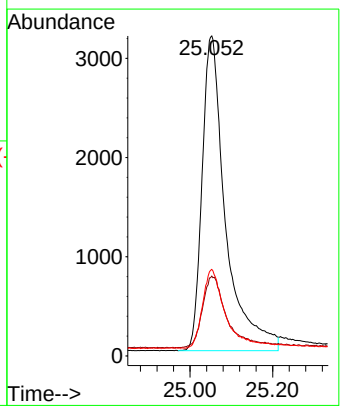


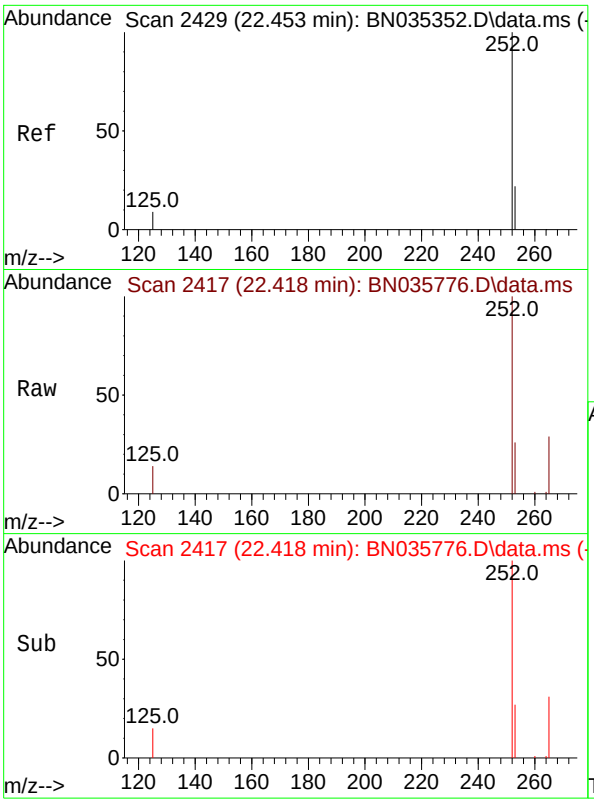


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.359 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:276 Resp: 12530

Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.4	29.0
277	24.2	19.8	29.6



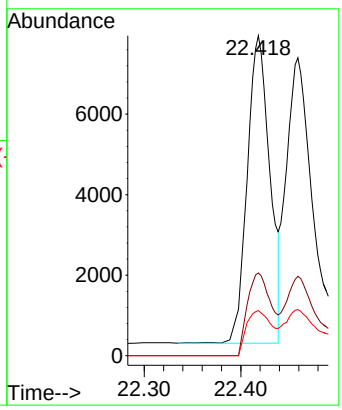


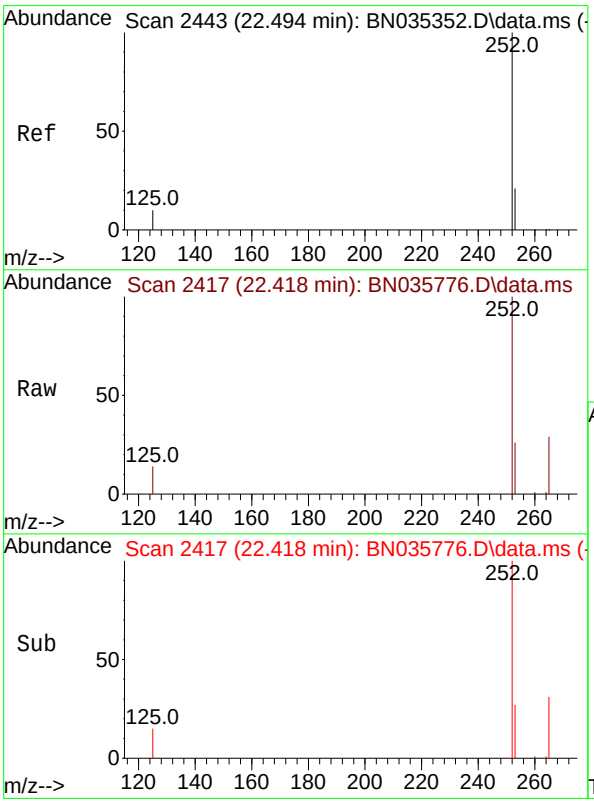
#37
Benzo(b)fluoranthene
Concen: 0.646 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 21074

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.1	9.6	14.4

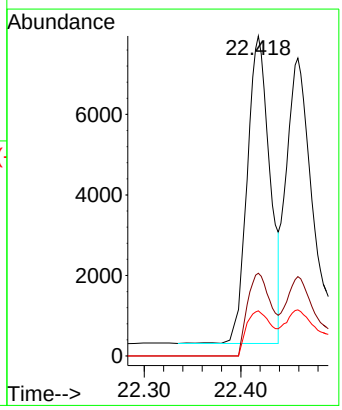


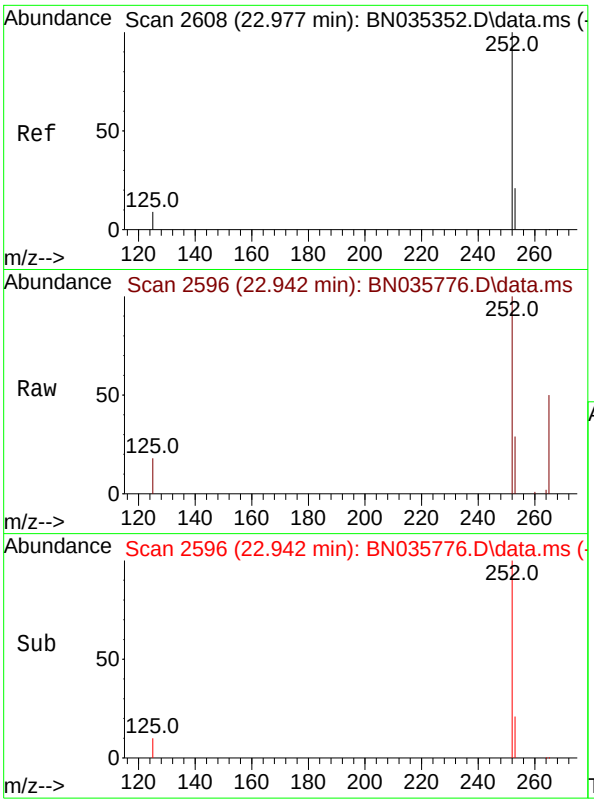


#38
Benzo(k)fluoranthene
Concen: 0.656 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 21074

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	14.1	10.2	15.4



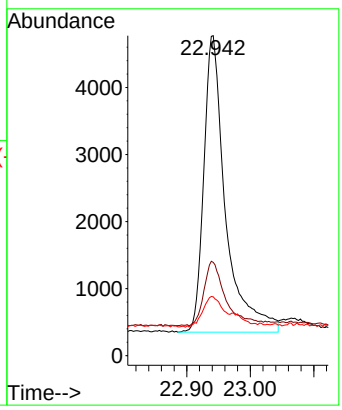


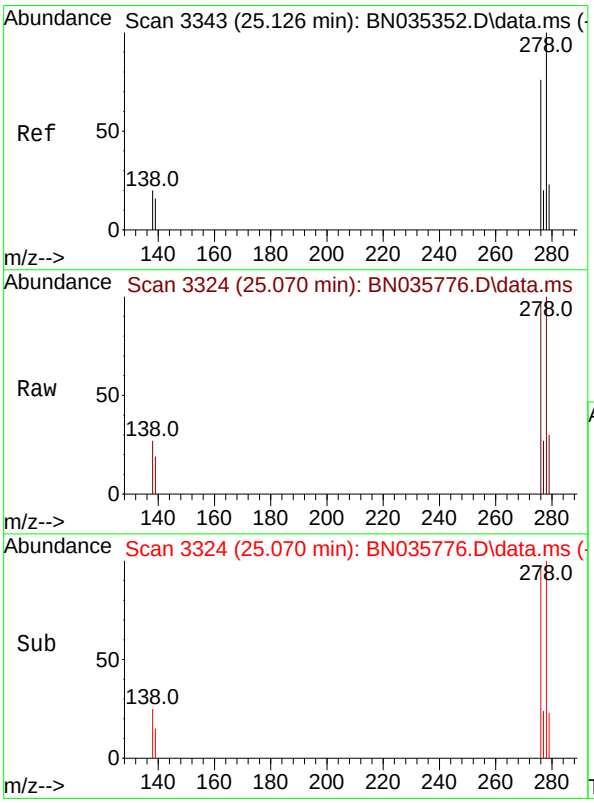
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10518

Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	18.4	10.9	16.3#

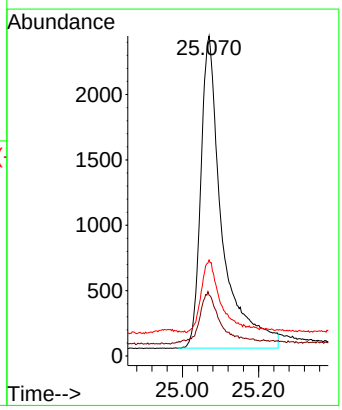


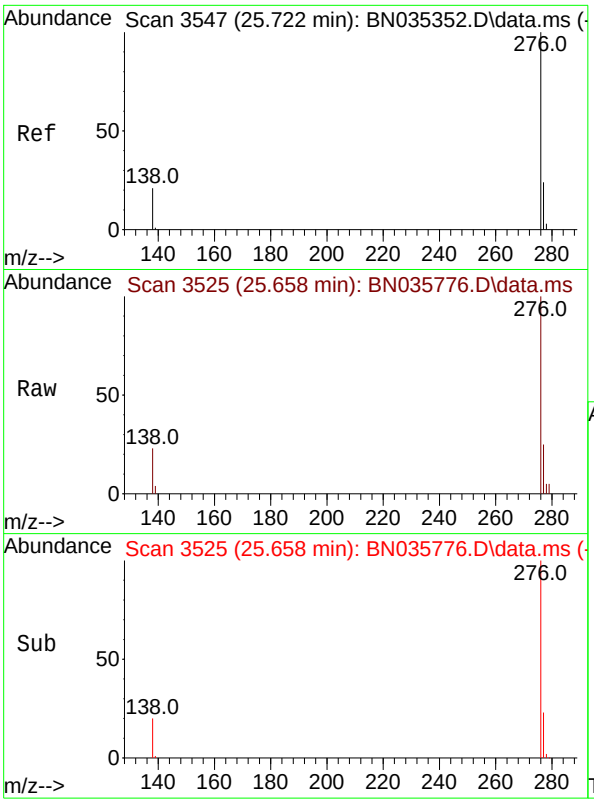


#40
Dibenzo(a,h)anthracene
Concen: 0.337 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:278 Resp: 9258

Ion	Ratio	Lower	Upper
278	100		
139	19.0	14.2	21.4
279	30.0	20.5	30.7



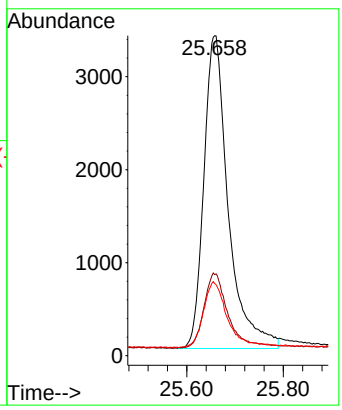


#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11833

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	22.6	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035778.D
Acq On : 23 Dec 2024 11:32
Operator : RC/JU
Sample : P5281-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Quant Time: Dec 23 12:01:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

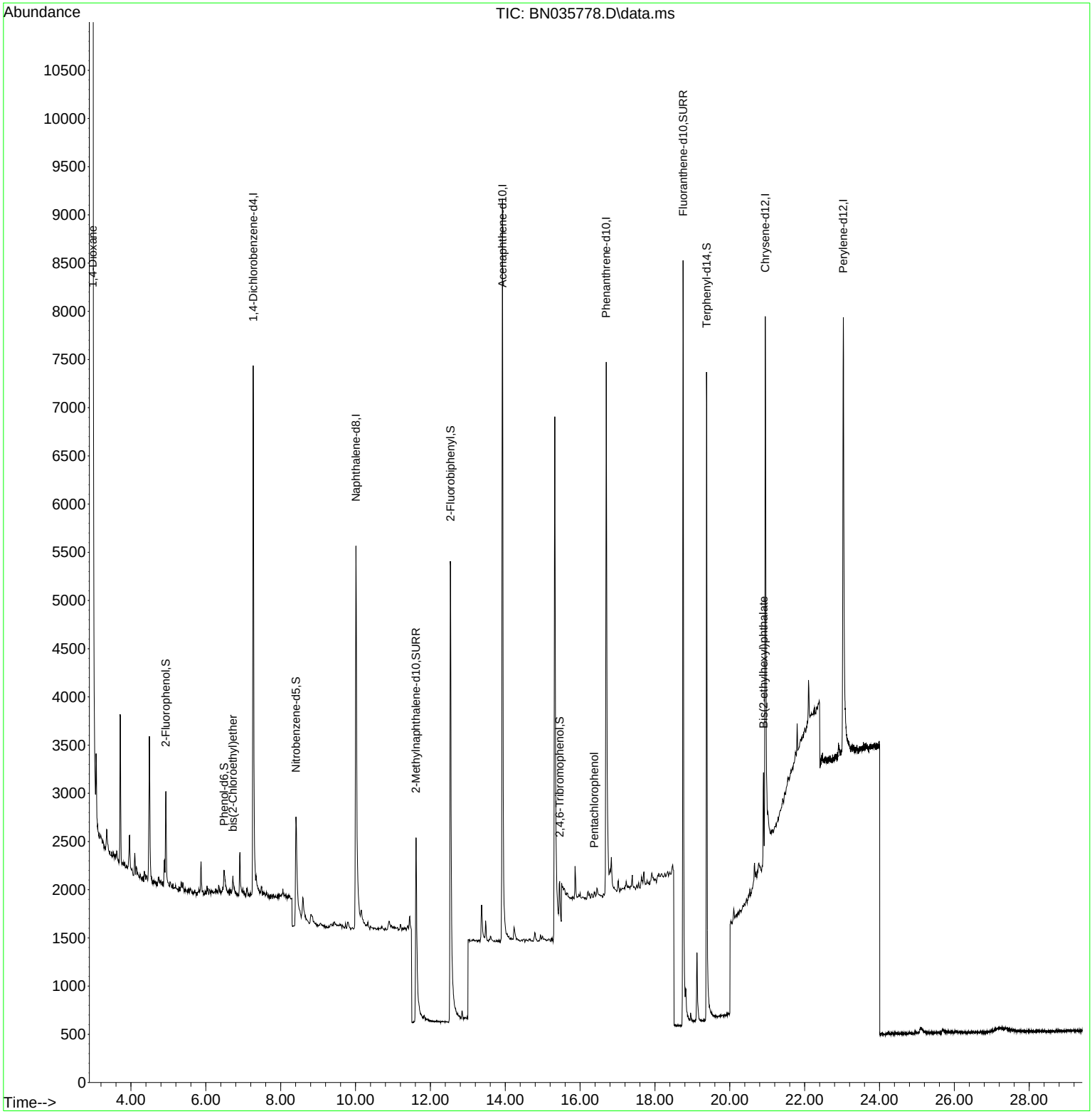
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3150	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7756	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5021	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9829	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7584	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7486	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	928	0.118	ng	0.00
5) Phenol-d6	6.484	99	505	0.053	ng	0.00
8) Nitrobenzene-d5	8.408	82	2174	0.459	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4519	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	614	0.172	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6952	0.366	ng	0.00
27) Fluoranthene-d10	18.752	212	11103	0.398	ng	0.00
31) Terphenyl-d14	19.379	244	8265	0.552	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	17364	5.766	ng	98
6) bis(2-Chloroethyl)ether	6.723	93	256	0.032	ng	92
24) Pentachlorophenol	16.375	266	70	0.024	ng	# 75
34) Bis(2-ethylhexyl)phtha...	20.902	149	1077	0.103	ng	# 96

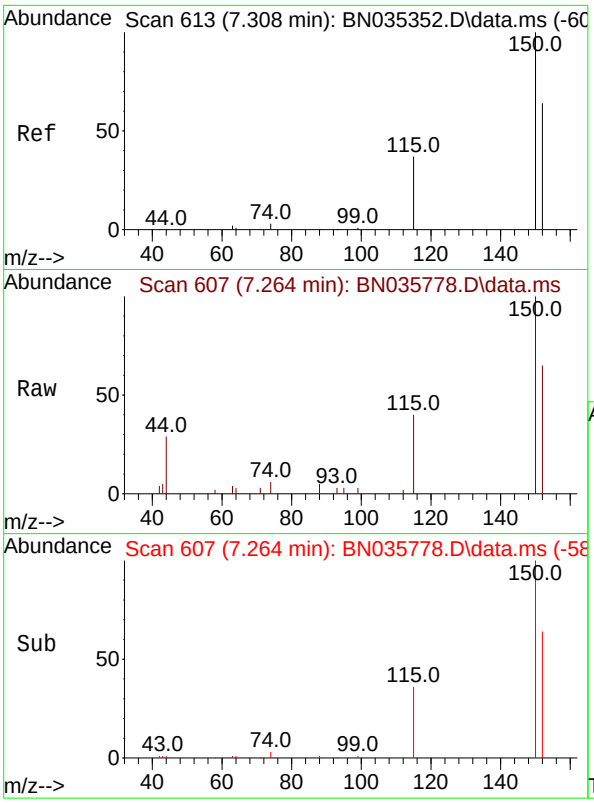
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035778.D
Acq On : 23 Dec 2024 11:32
Operator : RC/JU
Sample : P5281-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Quant Time: Dec 23 12:01:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



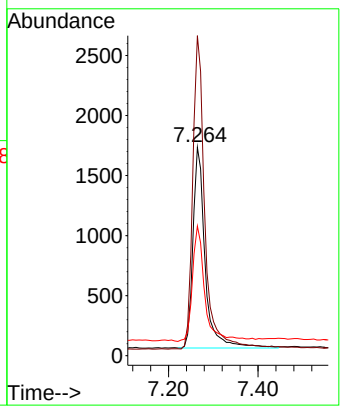


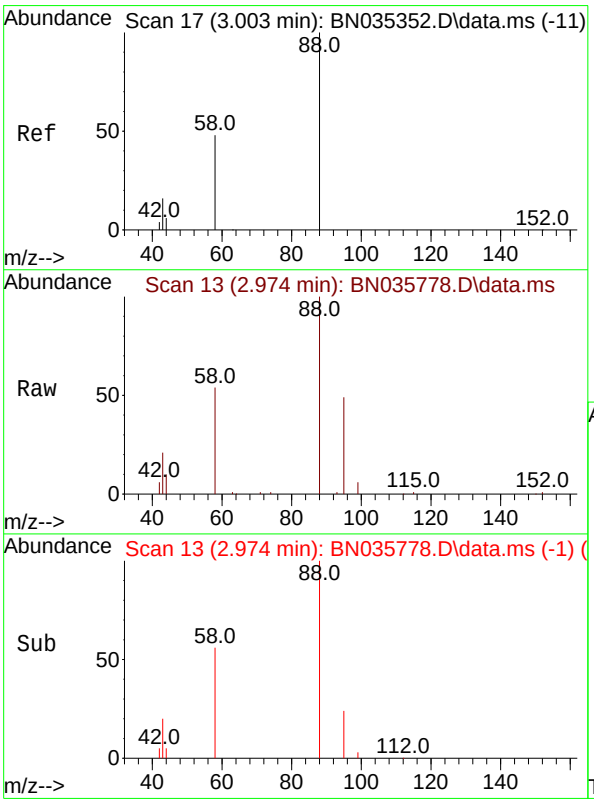
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:152 Resp: 3150

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.2	49.6	74.4

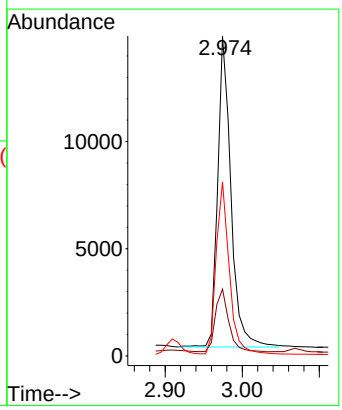


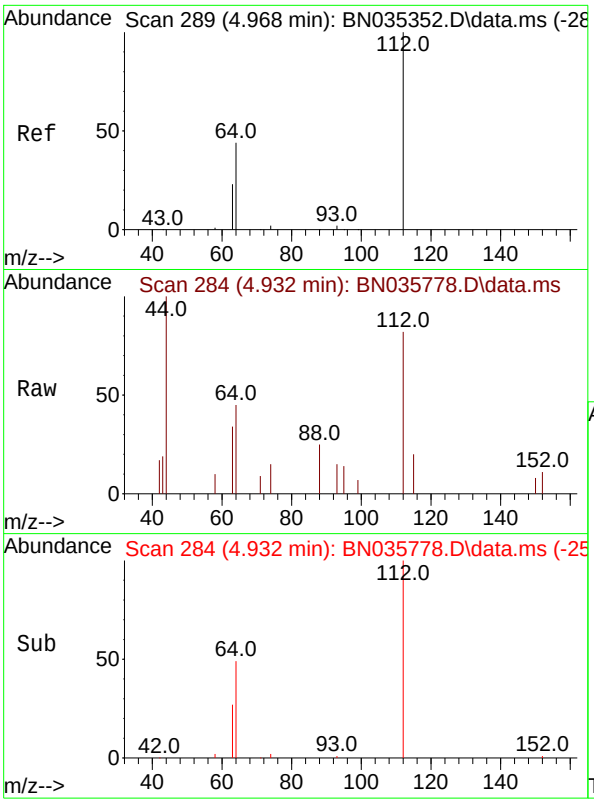


#2
1,4-Dioxane
Concen: 5.766 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion: 88 Resp: 17364

Ion	Ratio	Lower	Upper
88	100		
43	20.0	17.2	25.8
58	54.0	44.5	66.7



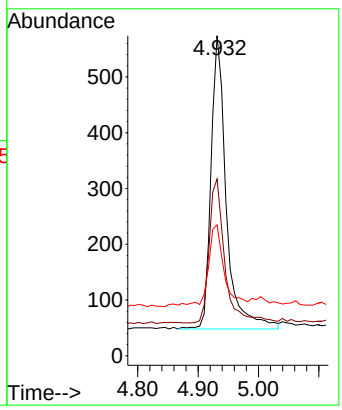


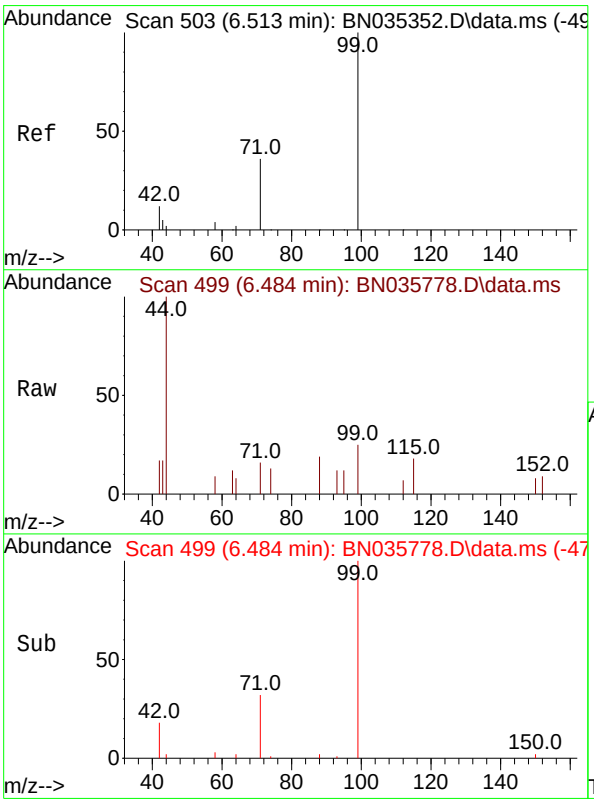
#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:112 Resp: 928

Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.8	21.0	31.6

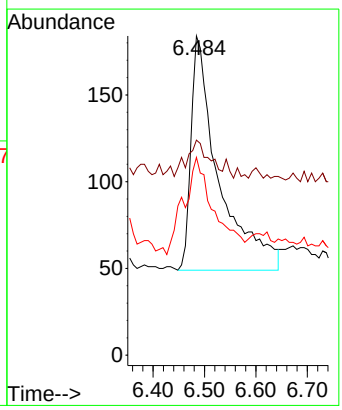


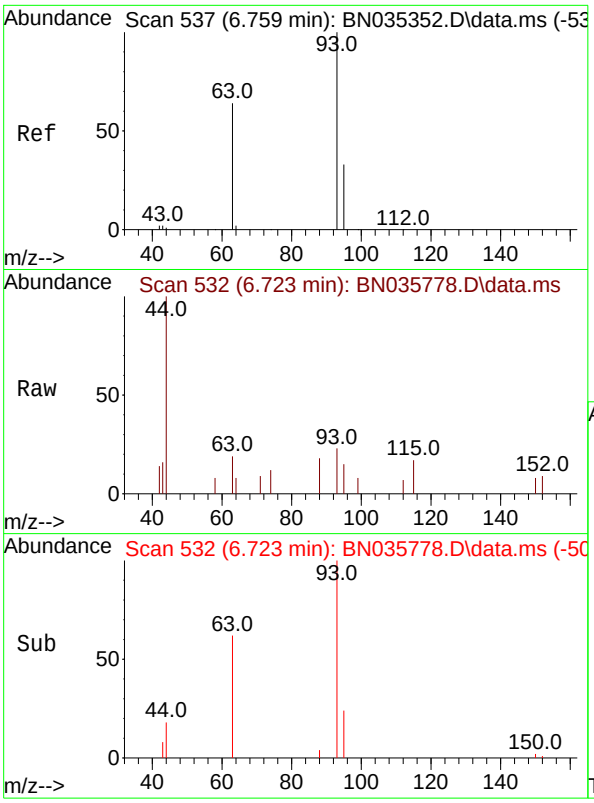


#5
Phenol-d6
Concen: 0.053 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion: 99 Resp: 505

Ion	Ratio	Lower	Upper
99	100		
42	11.7	11.4	17.2
71	45.5	29.3	43.9#



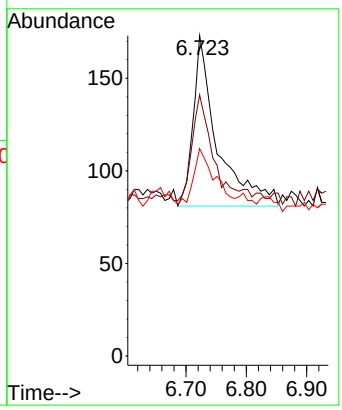


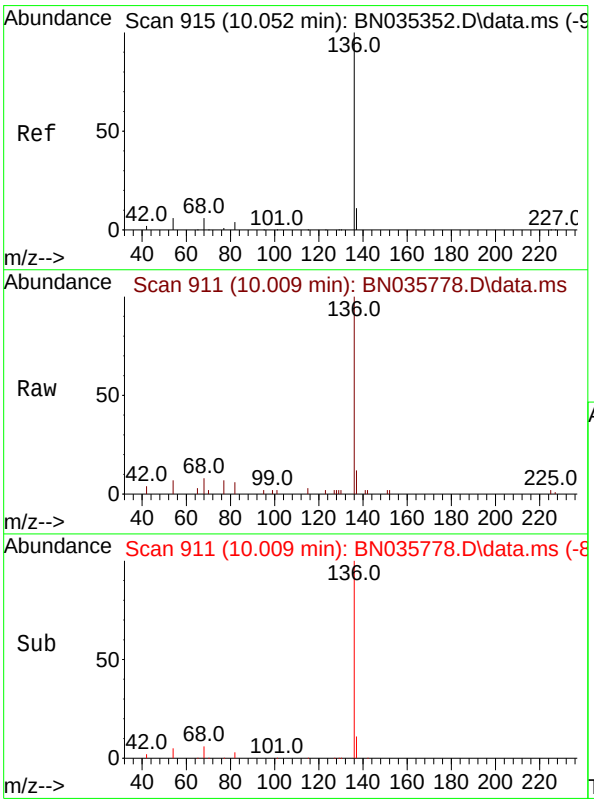
#6
bis(2-Chloroethyl)ether
Concen: 0.032 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion: 93 Resp: 256

Ion	Ratio	Lower	Upper
93	100		
63	57.8	50.4	75.6
95	27.0	25.7	38.5

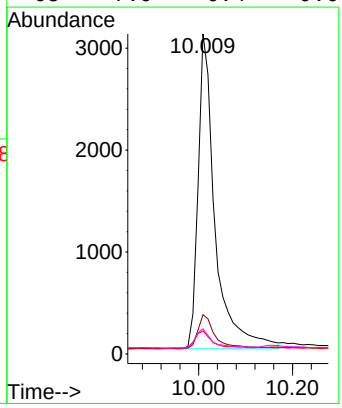


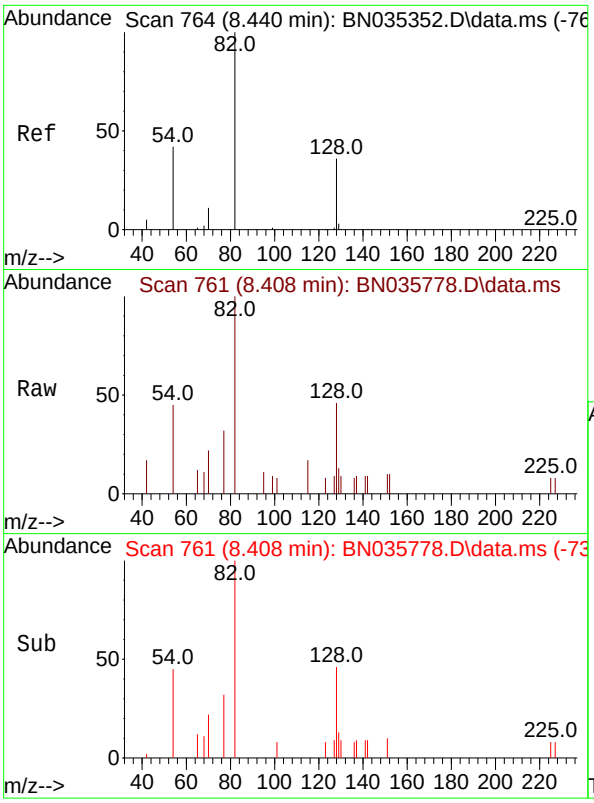


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:136 Resp: 7756

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.2	6.1	9.1
68	7.9	6.4	9.6



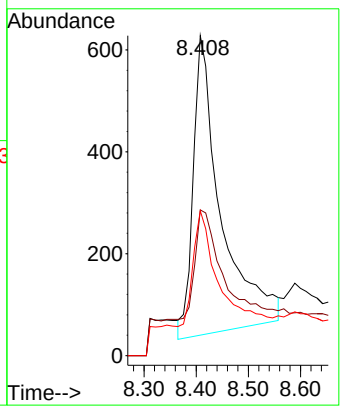


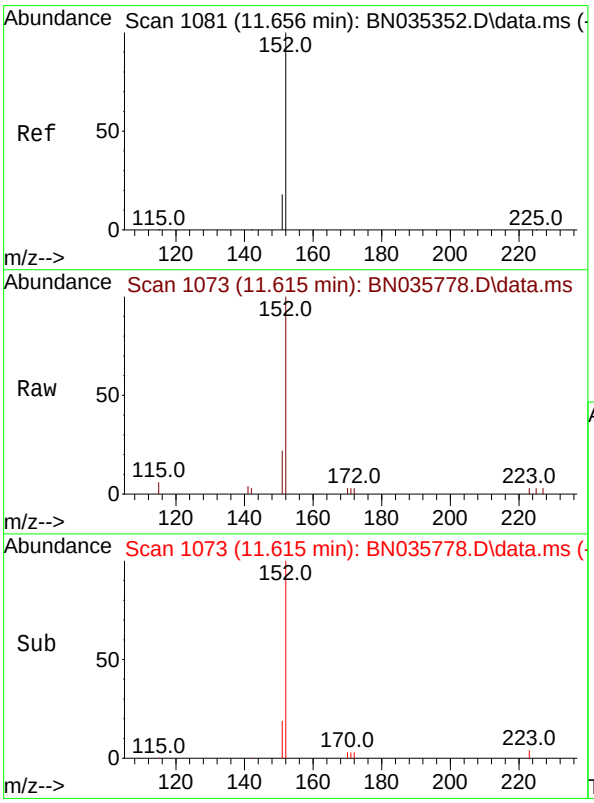
#8
Nitrobenzene-d5
Concen: 0.459 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion: 82 Resp: 2174

Ion	Ratio	Lower	Upper
82	100		
128	45.5	33.4	50.0
54	45.2	36.7	55.1

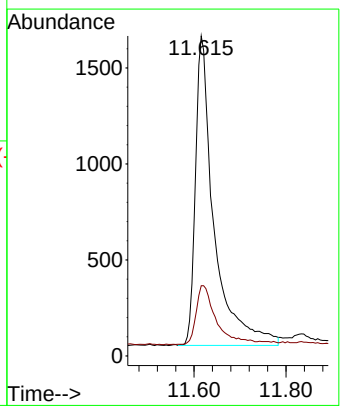


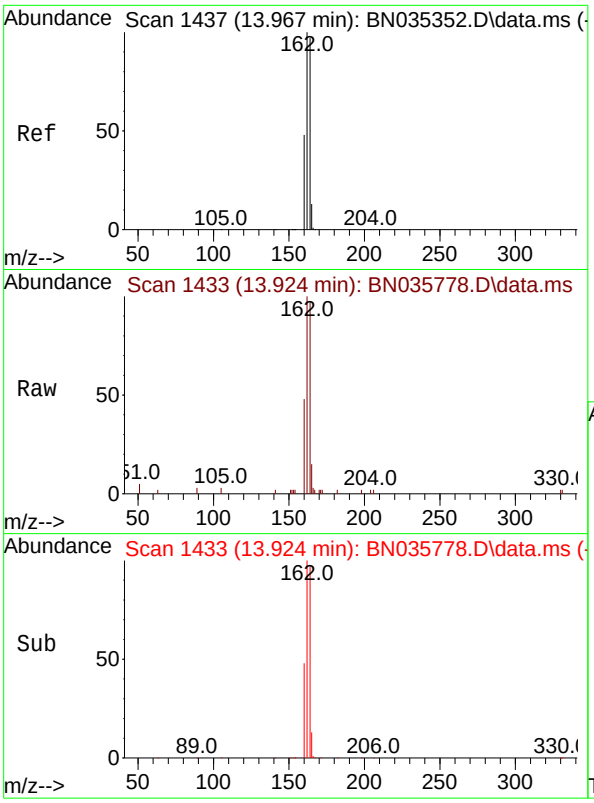


#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:152 Resp: 4519

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



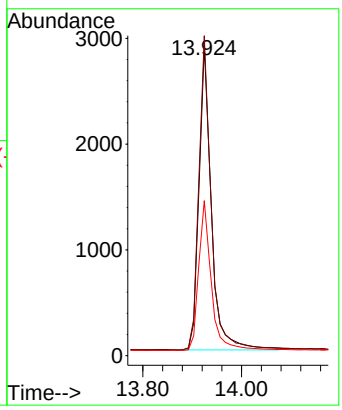


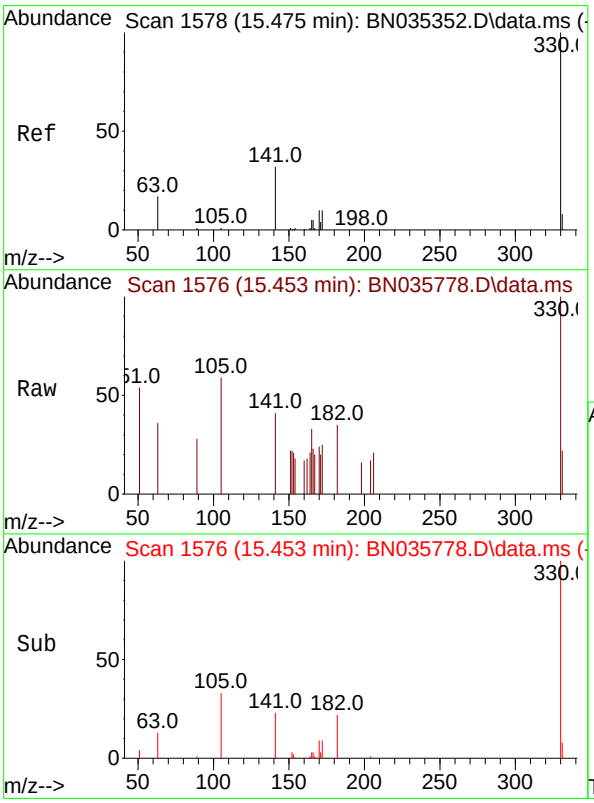
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:164 Resp: 5021

Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.2	123.2
160	50.1	40.1	60.1

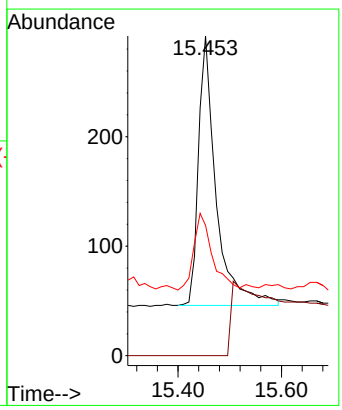


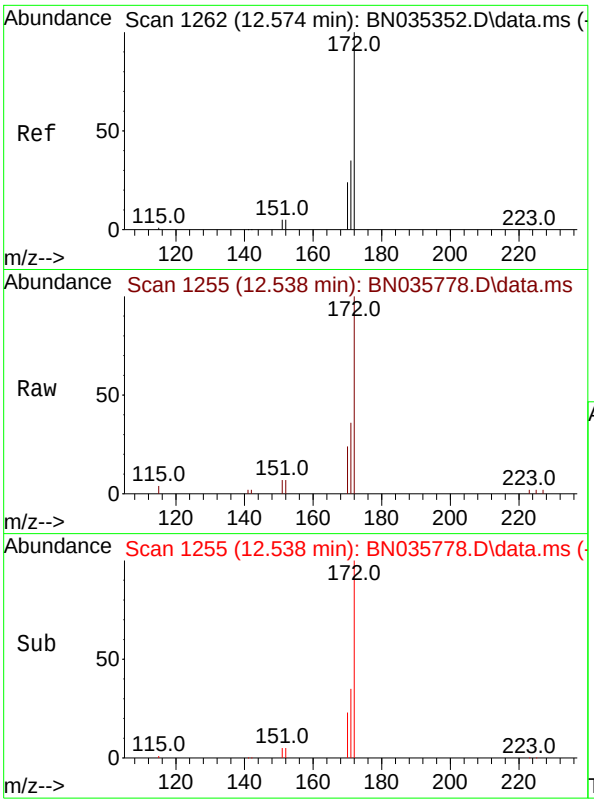


#14
2,4,6-Tribromophenol
Concen: 0.172 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:330 Resp: 614

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.7	26.6	40.0



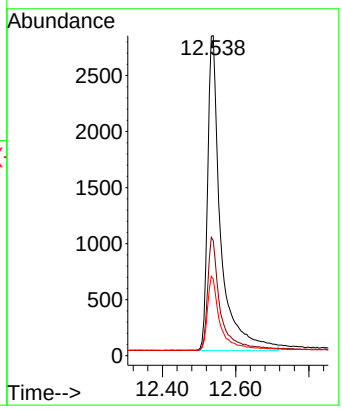


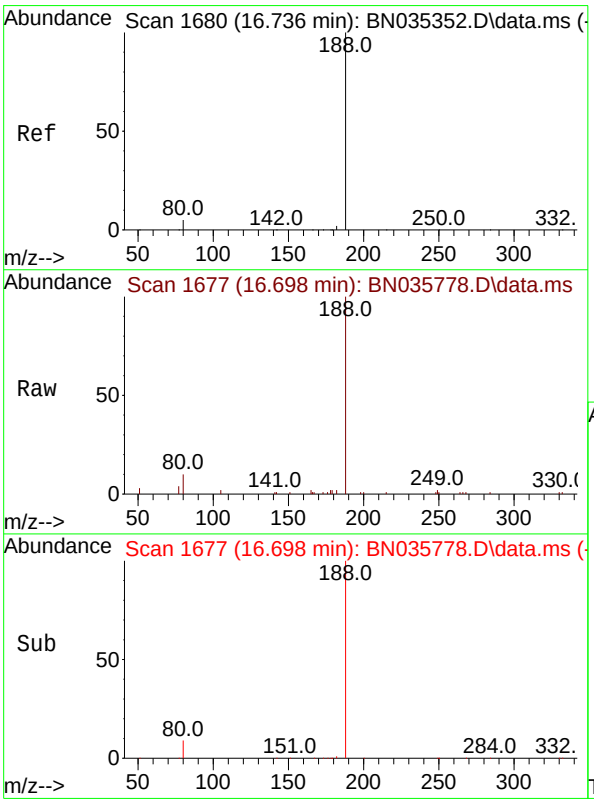
#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:172 Resp: 6952

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	23.9	19.8	29.8

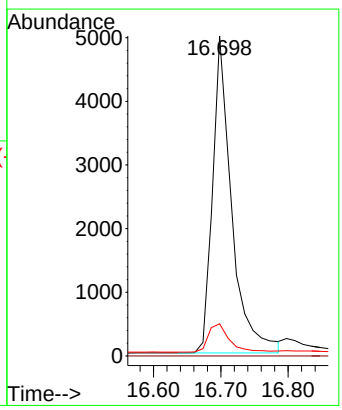


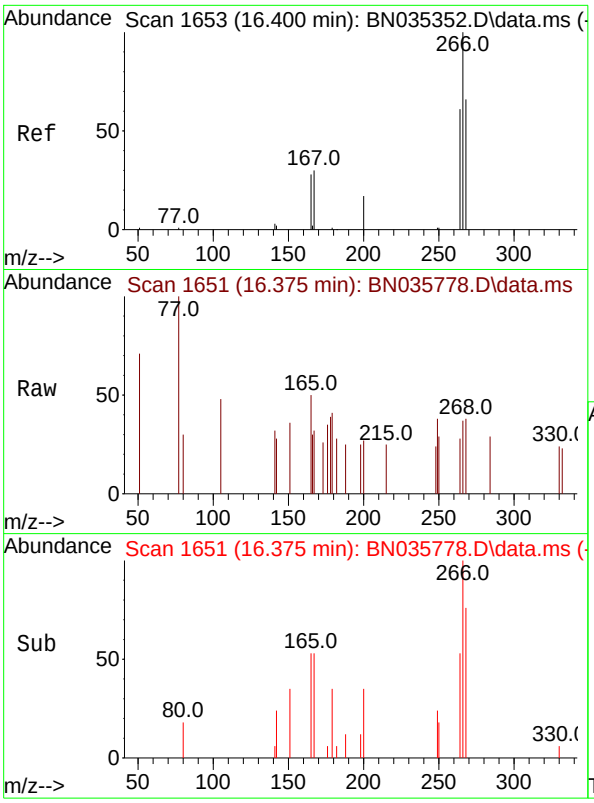


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:188 Resp: 9829

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	4.6	6.8#



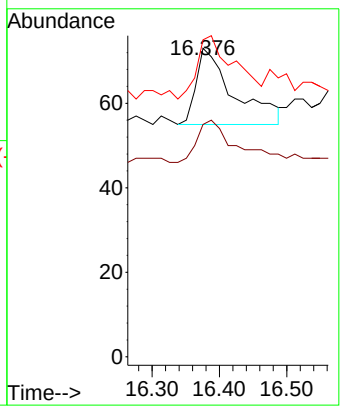


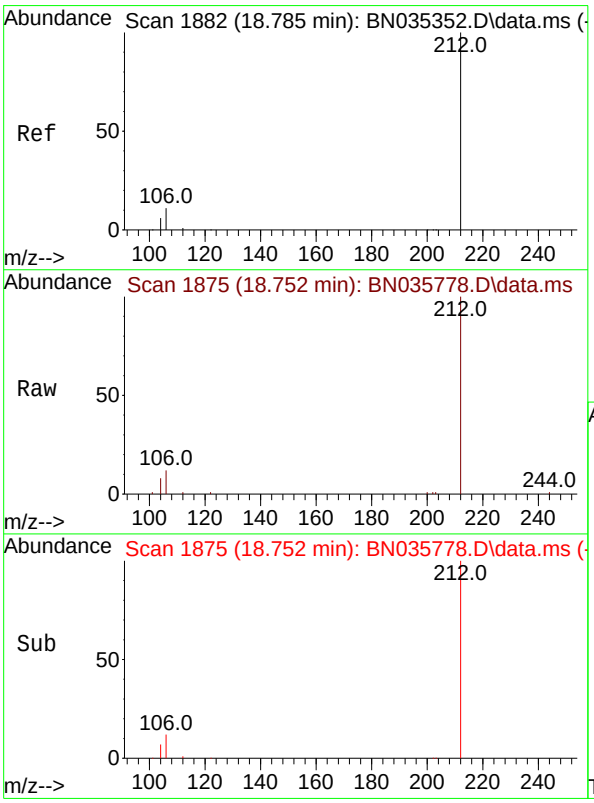
#24
Pentachlorophenol
Concen: 0.024 ng
RT: 16.375 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:266 Resp: 70

Ion	Ratio	Lower	Upper
266	100		
264	60.0	42.3	63.5
268	82.9	43.3	64.9#

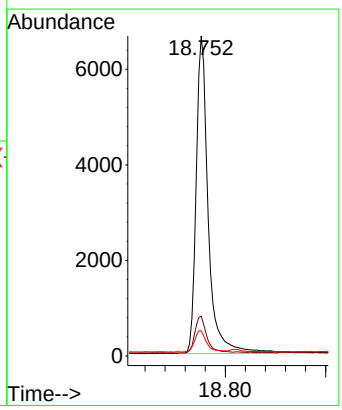


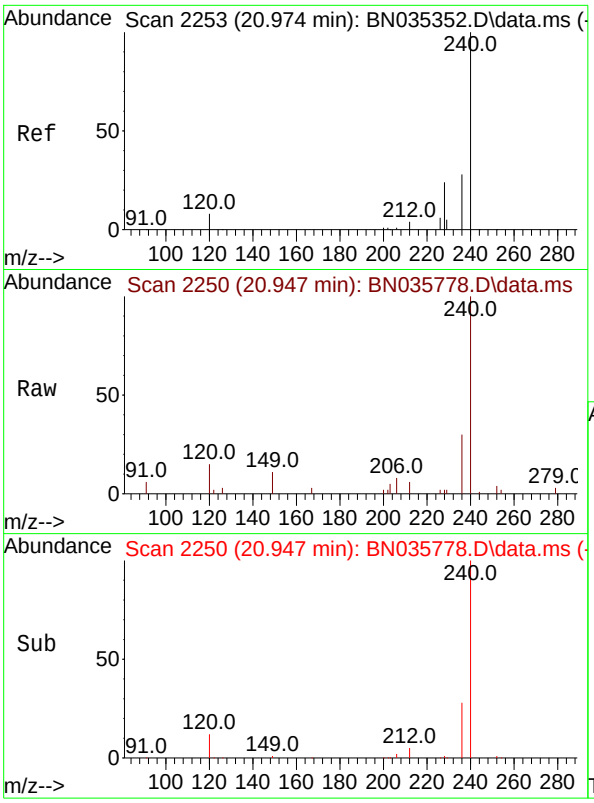


#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:212 Resp: 11103

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



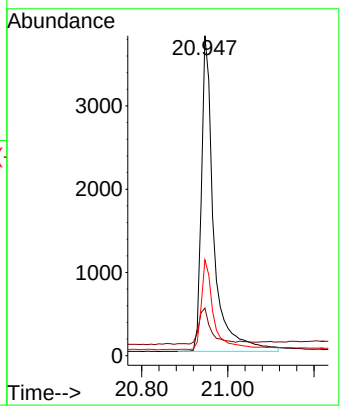


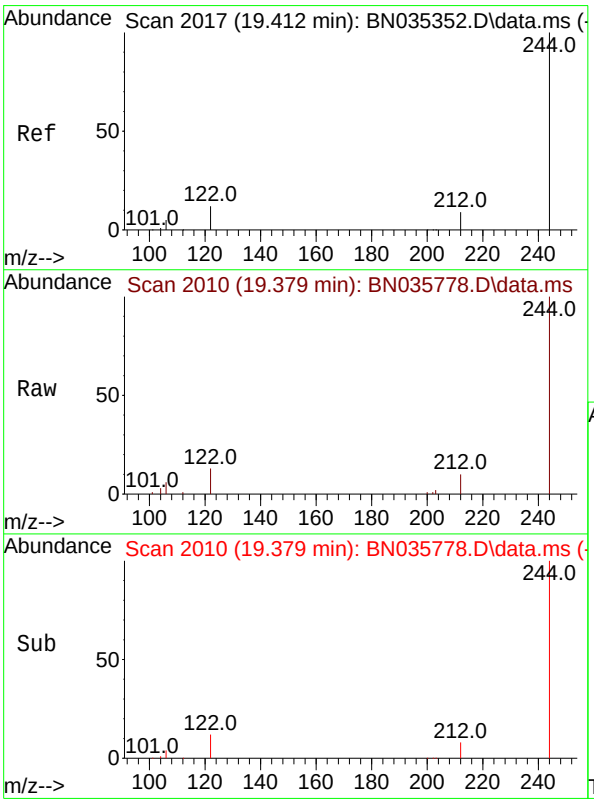
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:240 Resp: 7584

Ion	Ratio	Lower	Upper
240	100		
120	14.9	7.9	11.9#
236	30.0	22.9	34.3

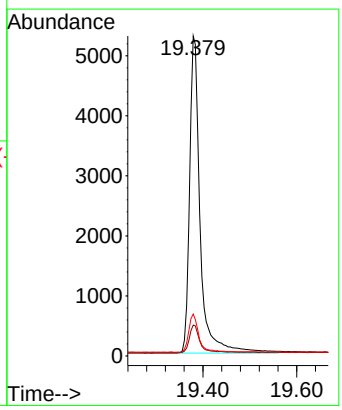


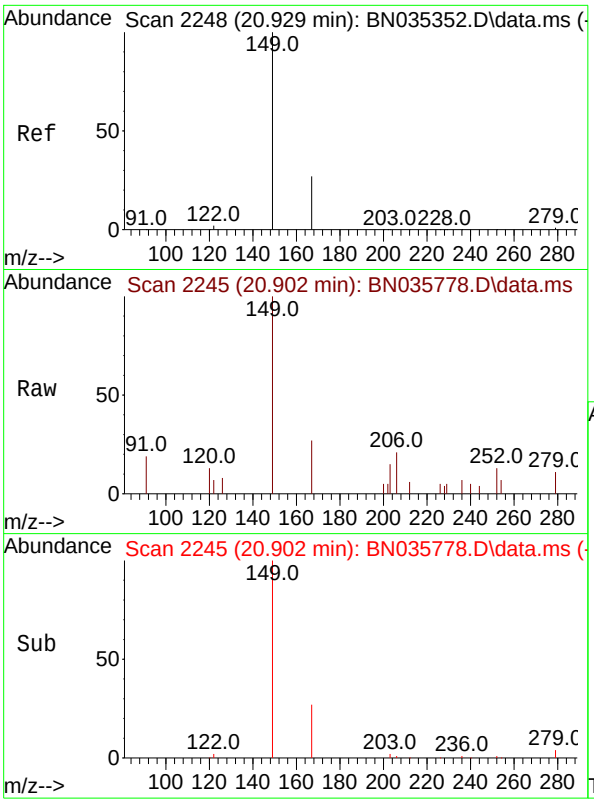


#31
Terphenyl-d14
Concen: 0.552 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:244 Resp: 8265

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.1	10.3	15.5



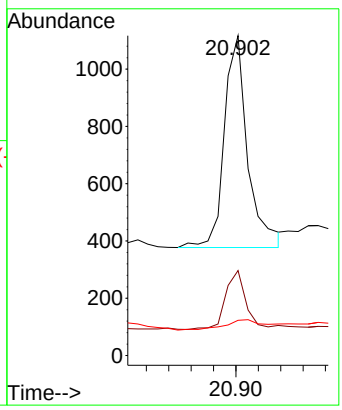


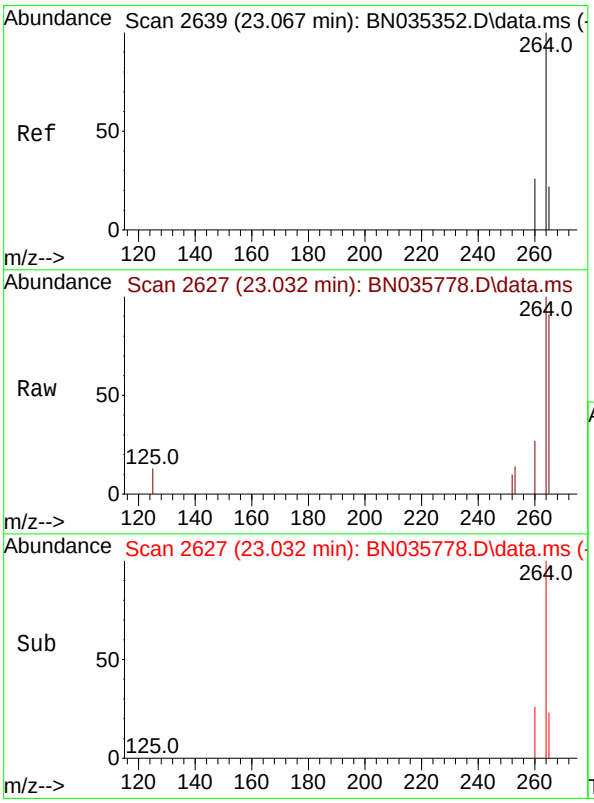
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.103 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212

Tgt Ion:149 Resp: 1077

Ion	Ratio	Lower	Upper
149	100		
167	26.3	22.2	33.4
279	7.7	2.7	4.1#

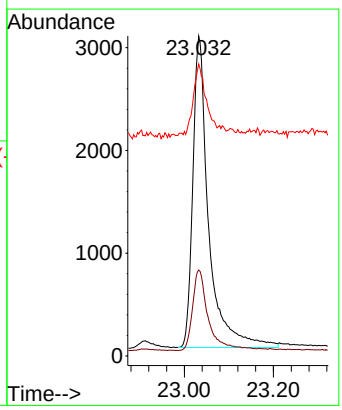




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035778.D
Acq: 23 Dec 2024 11:32

Tgt Ion:264 Resp: 7486

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	91.2	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035791.D
Acq On : 23 Dec 2024 19:15
Operator : RC/JU
Sample : P5281-02
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Quant Time: Dec 24 00:13:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3489	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8414	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4915	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6808	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6994	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	1078	0.123	ng	0.00
5) Phenol-d6	6.484	99	673	0.064	ng	0.00
8) Nitrobenzene-d5	8.408	82	2499	0.486	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4824	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	702	0.201	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	7403	0.398	ng	-0.01
27) Fluoranthene-d10	18.752	212	12187	0.470	ng	0.00
31) Terphenyl-d14	19.379	244	8971	0.668	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	81	0.024	ng	# 54
6) bis(2-Chloroethyl)ether	6.622	93	838	0.095	ng	# 30
34) Bis(2-ethylhexyl)phtha...	20.902	149	703	0.075	ng	# 96

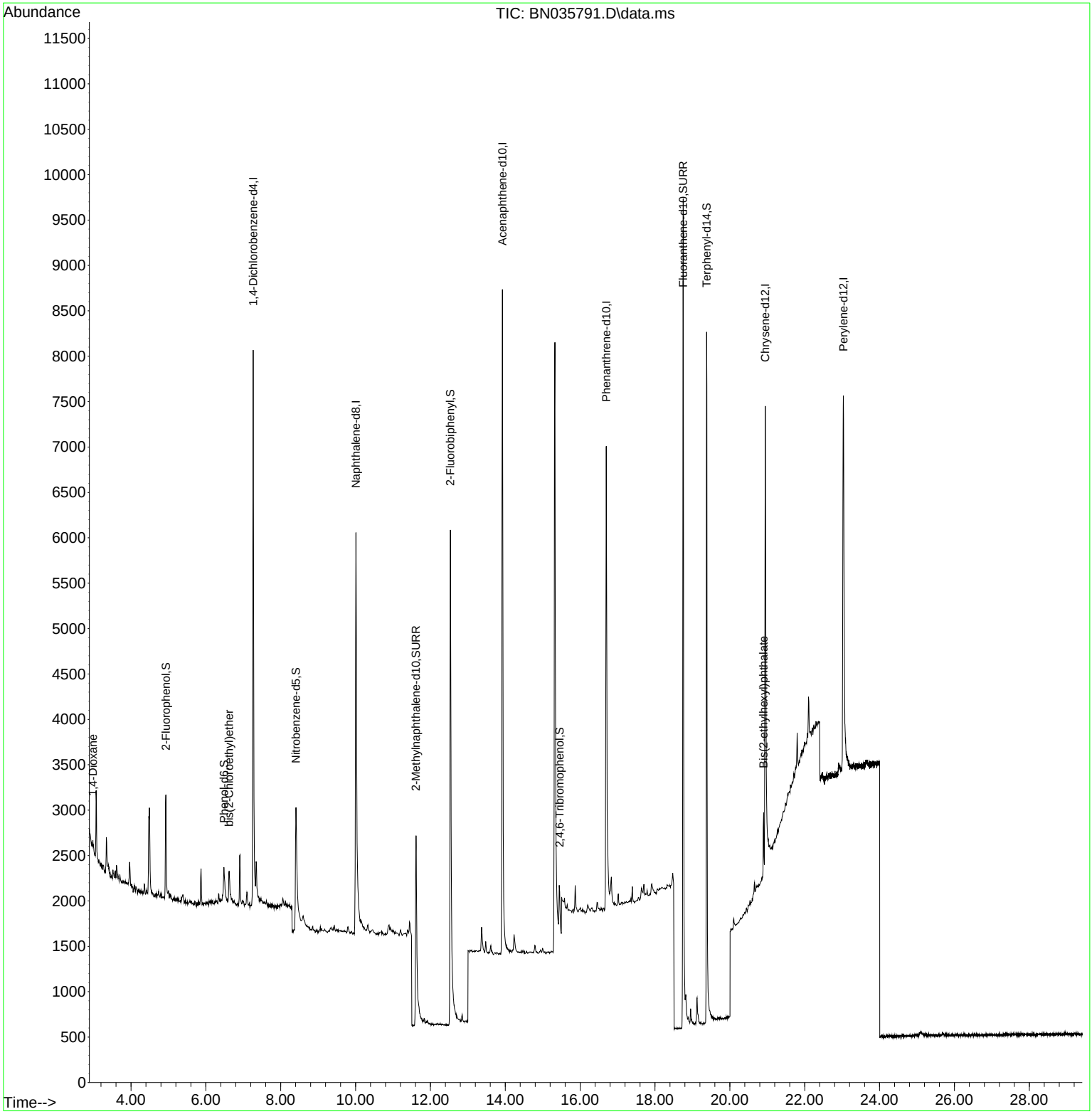
(#) = qualifier out of range (m) = manual integration (+) = signals summed

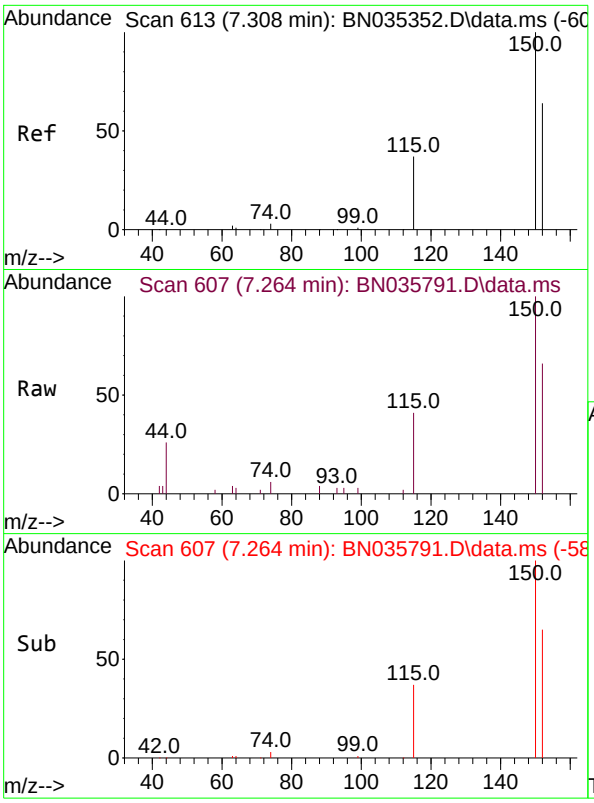
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035791.D
Acq On : 23 Dec 2024 19:15
Operator : RC/JU
Sample : P5281-02
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Quant Time: Dec 24 00:13:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



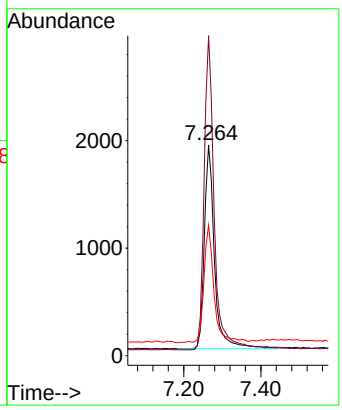


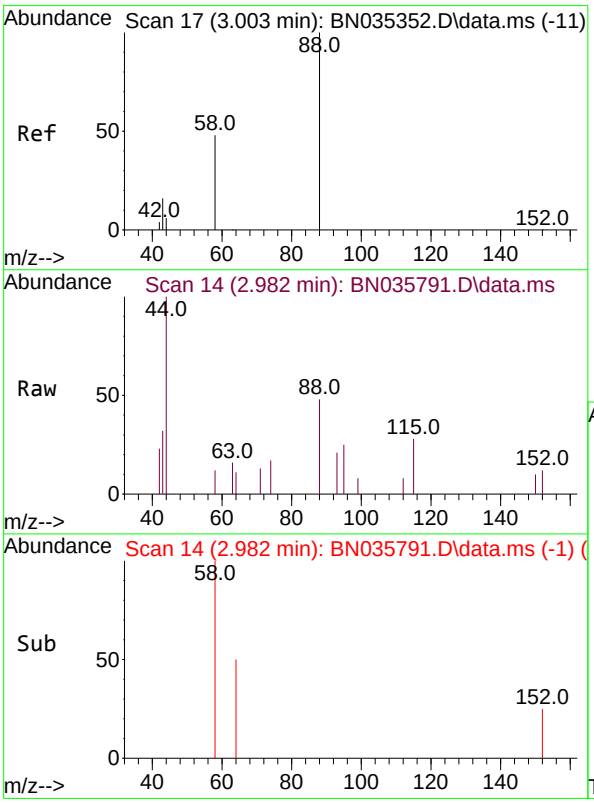
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:152 Resp: 3489

Ion	Ratio	Lower	Upper
152	100		
150	151.8	124.0	186.0
115	61.9	49.6	74.4

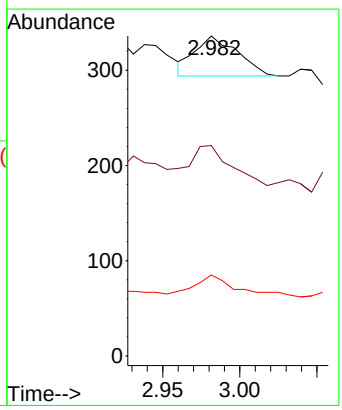


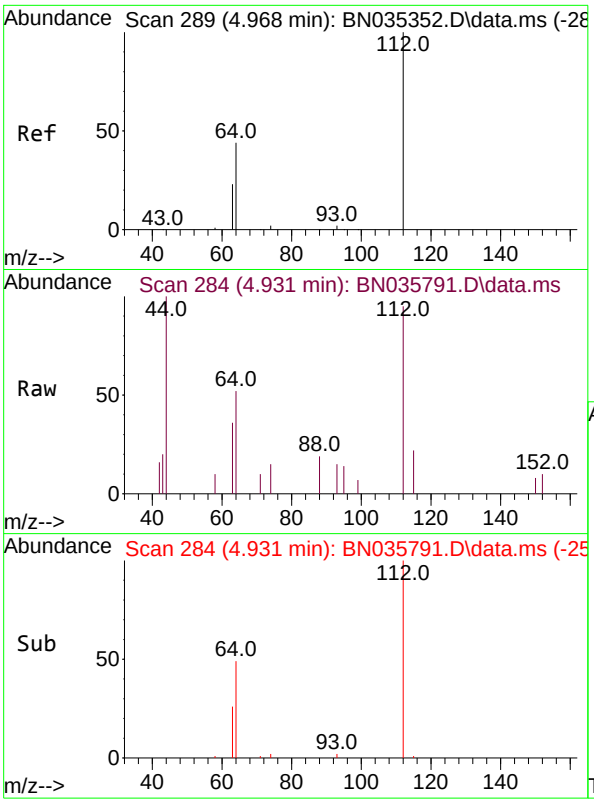


#2
1,4-Dioxane
Concen: 0.024 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion: 88 Resp: 81

Ion	Ratio	Lower	Upper
88	100		
43	98.8	17.2	25.8#
58	55.6	44.5	66.7



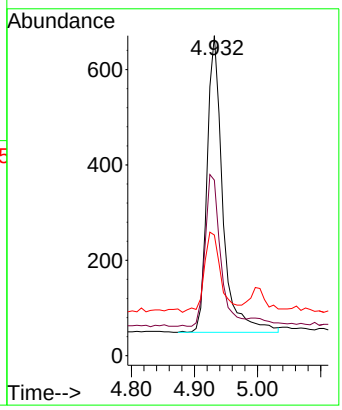


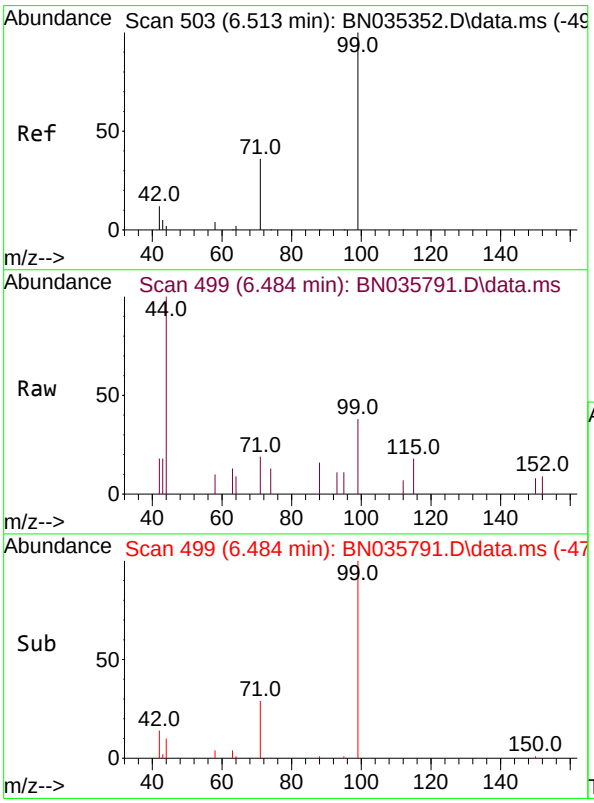
#4
2-Fluorophenol
Concen: 0.123 ng
RT: 4.931 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:112 Resp: 1078

Ion	Ratio	Lower	Upper
112	100		
64	50.1	39.8	59.8
63	27.8	21.0	31.6

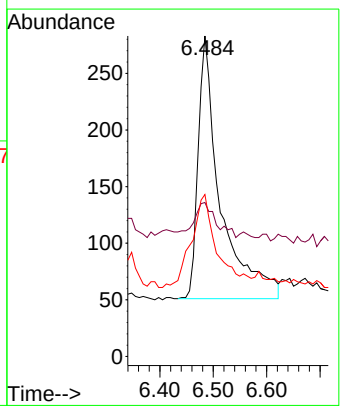


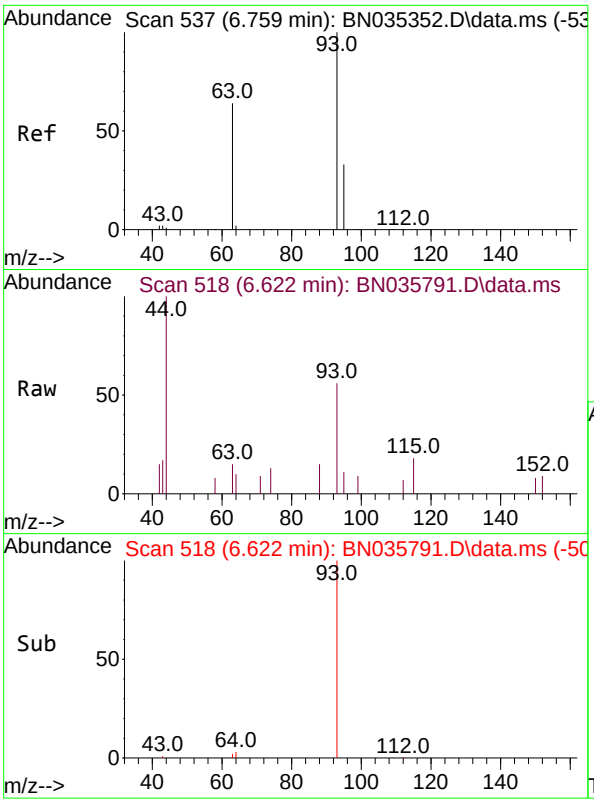


#5
Phenol-d6
Concen: 0.064 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion: 99 Resp: 673

Ion	Ratio	Lower	Upper
99	100		
42	13.2	11.4	17.2
71	41.0	29.3	43.9



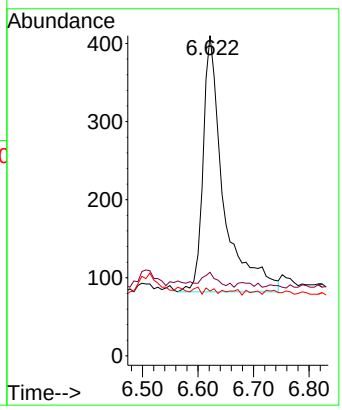


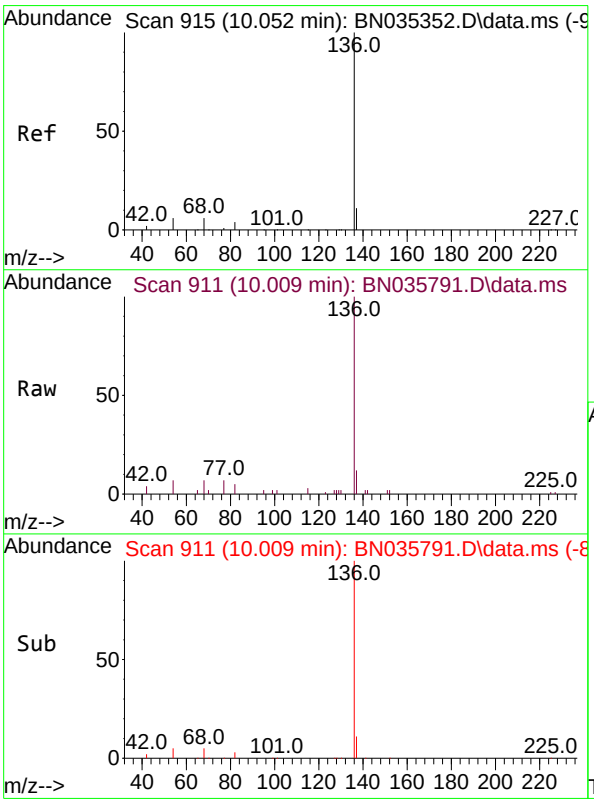
#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 6.622 min Scan# 5
Delta R.T. -0.109 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion: 93 Resp: 838

Ion	Ratio	Lower	Upper
93	100		
63	3.2	50.4	75.6#
95	1.1	25.7	38.5#

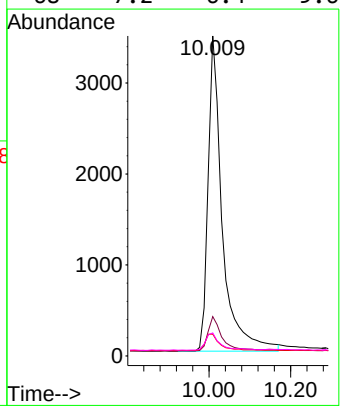


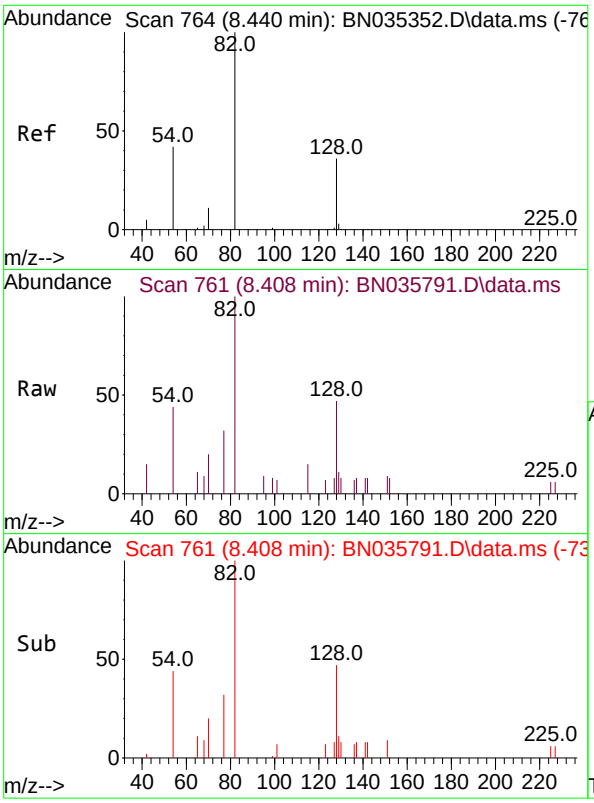


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:136 Resp: 8414

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	6.8	6.1	9.1
68	7.2	6.4	9.6



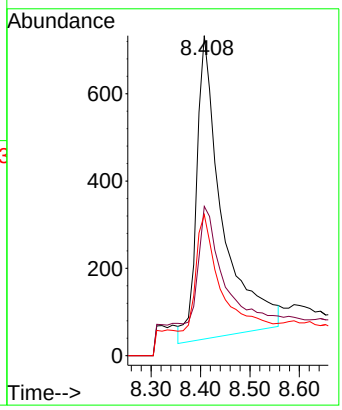


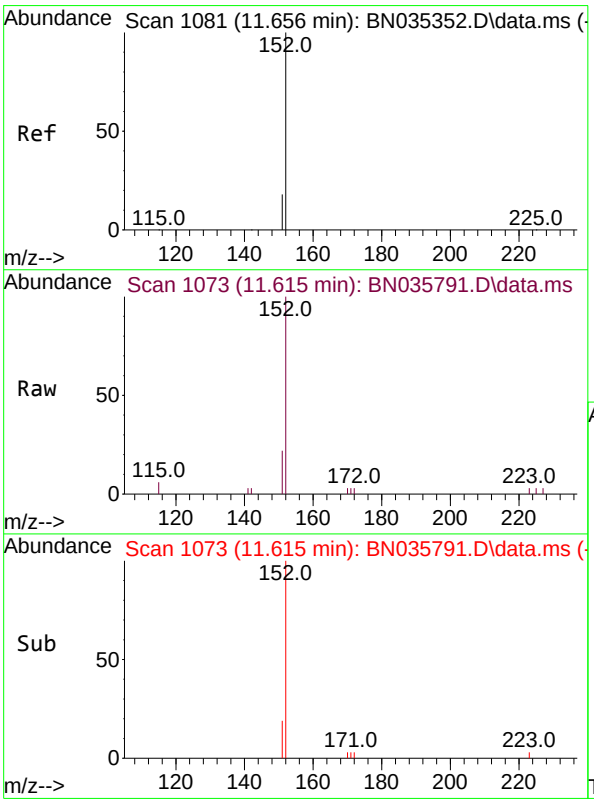
#8
Nitrobenzene-d5
Concen: 0.486 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion: 82 Resp: 2499

Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	44.1	36.7	55.1

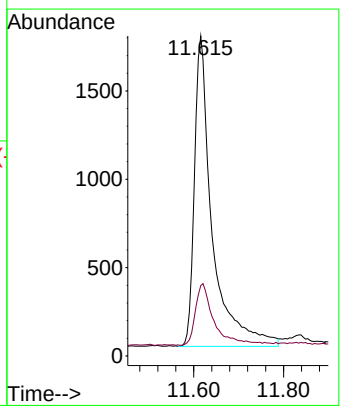


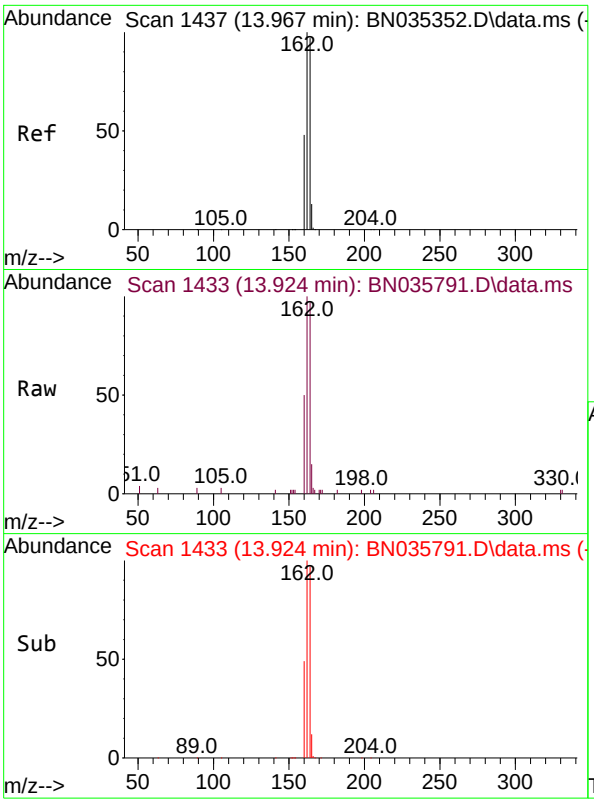


#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:152 Resp: 4824

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0



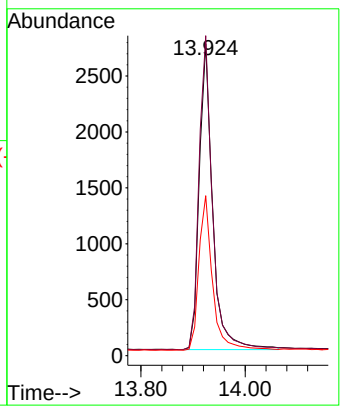


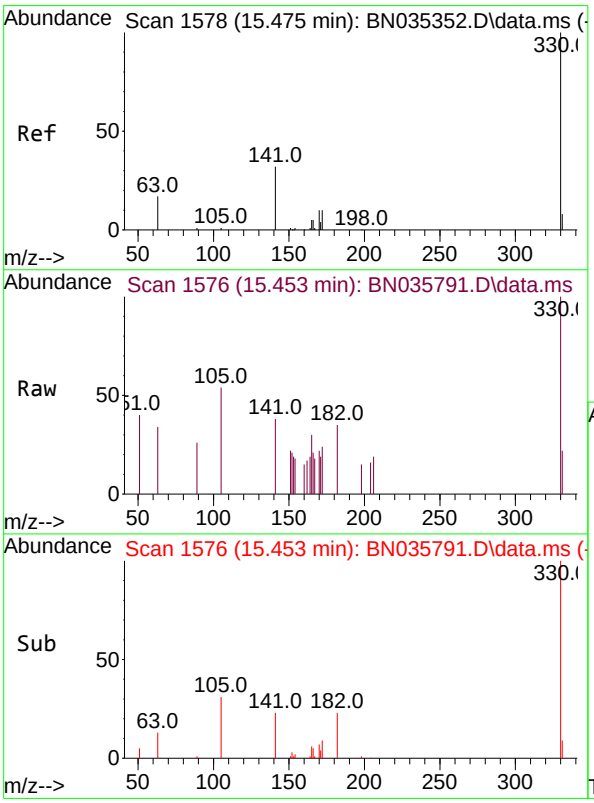
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:164 Resp: 4915

Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.2	123.2
160	51.3	40.1	60.1

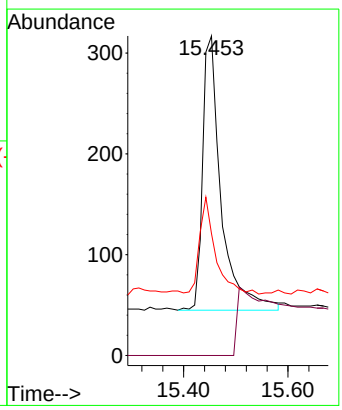


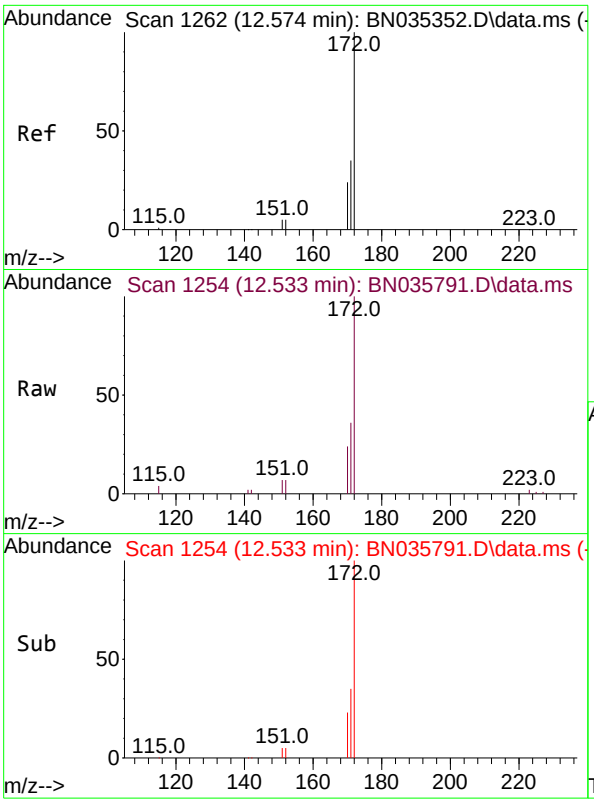


#14
2,4,6-Tribromophenol
Concen: 0.201 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:330 Resp: 702

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.1	26.6	40.0



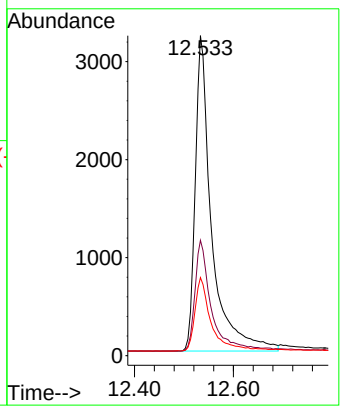


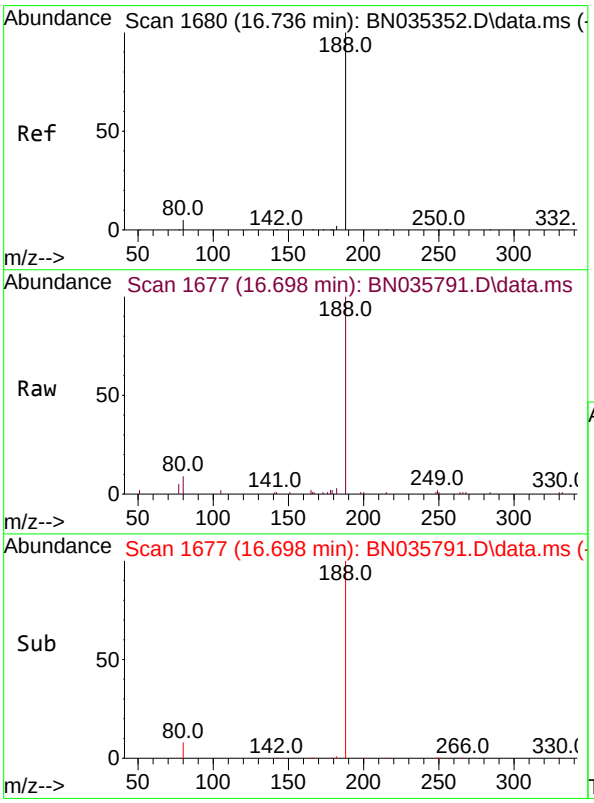
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:172 Resp: 7403

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8

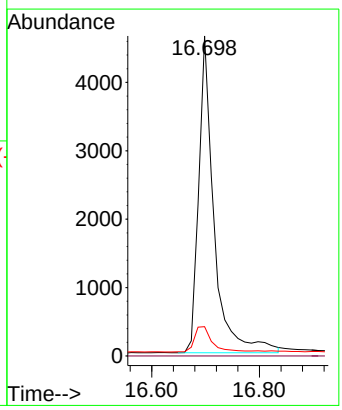


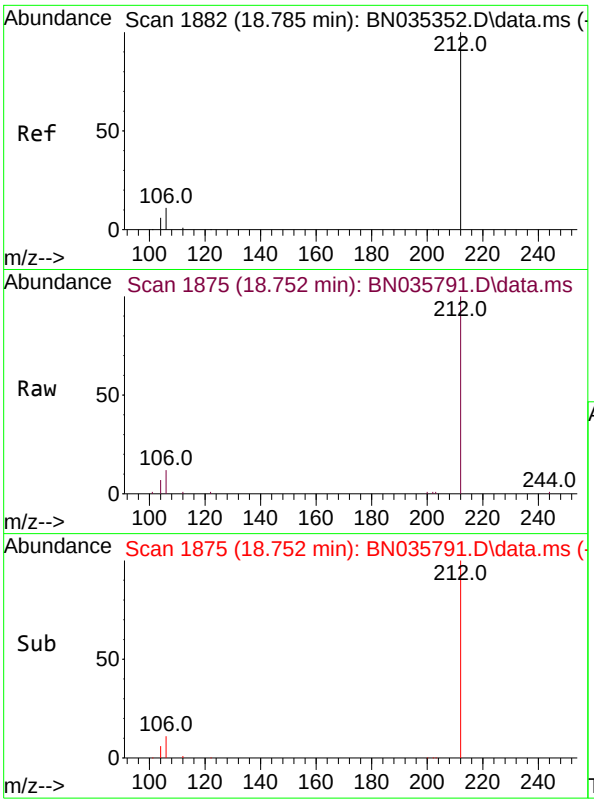


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:188 Resp: 9153

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#



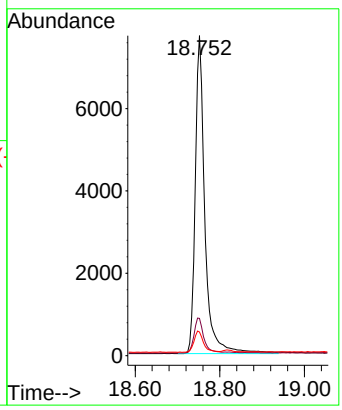


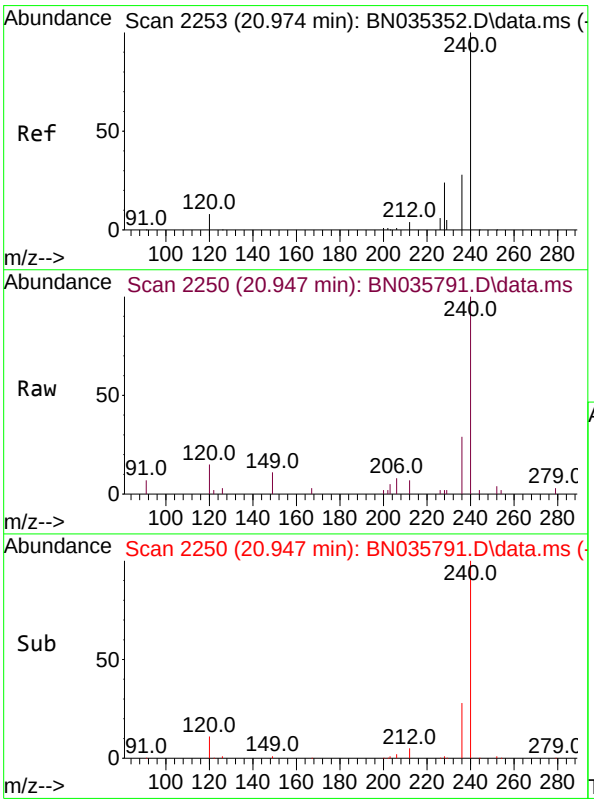
#27
Fluoranthene-d10
Concen: 0.470 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:212 Resp: 12187

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.2	13.8
104	6.6	5.3	7.9

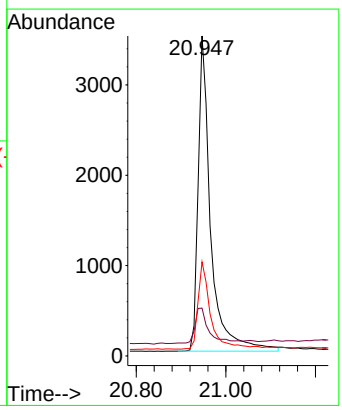


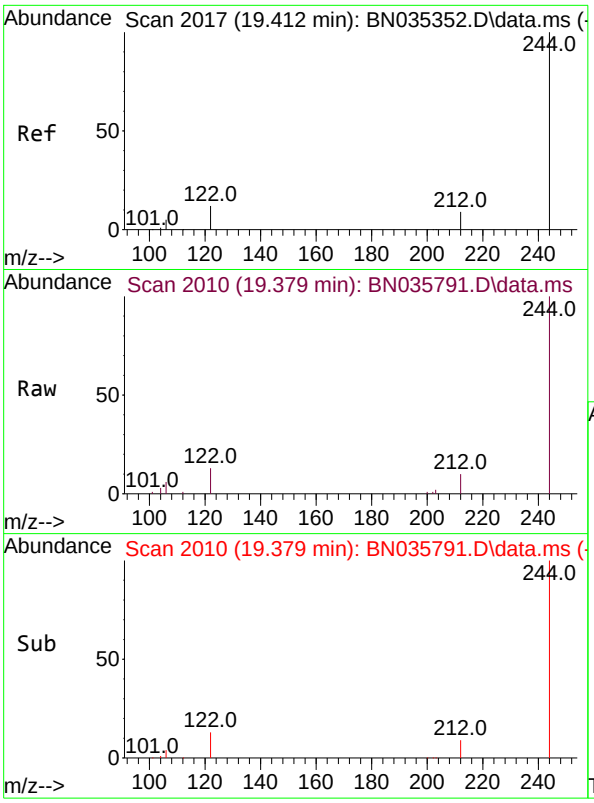


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:240 Resp: 6808

Ion	Ratio	Lower	Upper
240	100		
120	15.0	7.9	11.9#
236	29.4	22.9	34.3



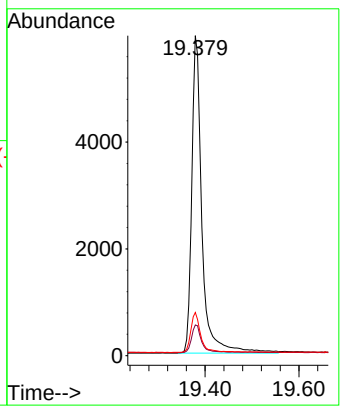


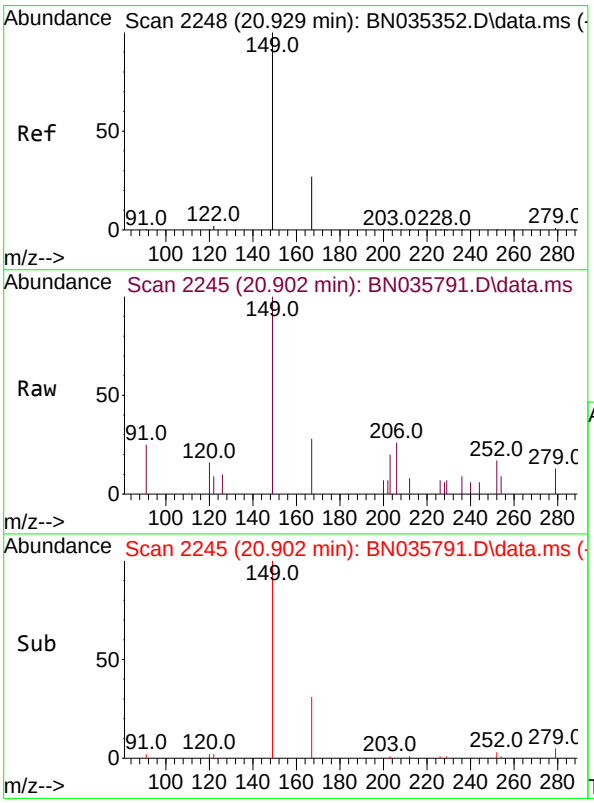
#31
Terphenyl-d14
Concen: 0.668 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:244 Resp: 8971

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.5	10.3	15.5

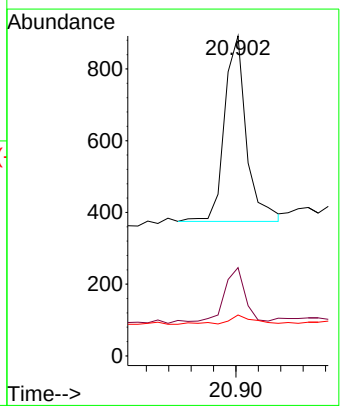


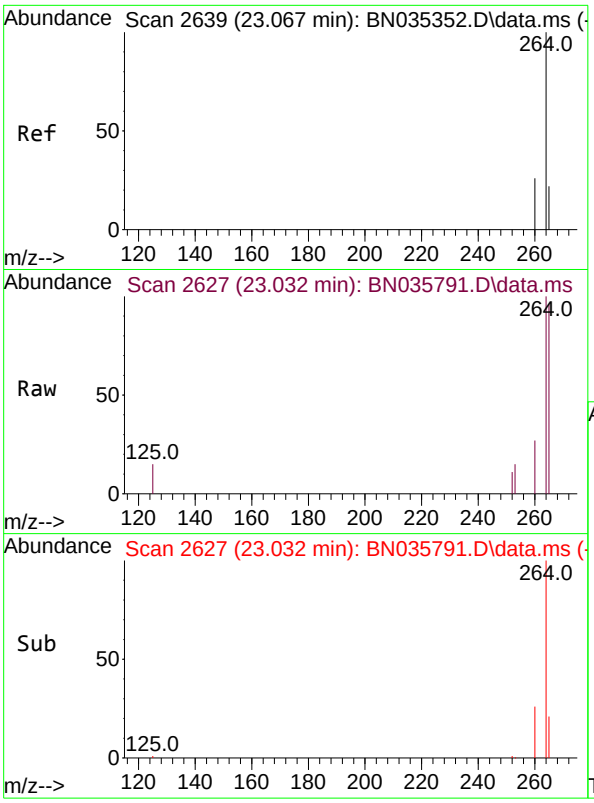


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.075 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Tgt Ion:149 Resp: 703

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.4
279	6.3	2.7	4.1#



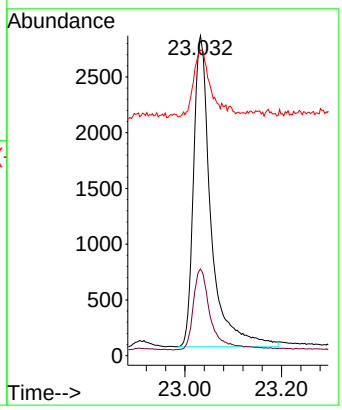


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035791.D
Acq: 23 Dec 2024 19:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:264 Resp: 6994

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	95.6	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

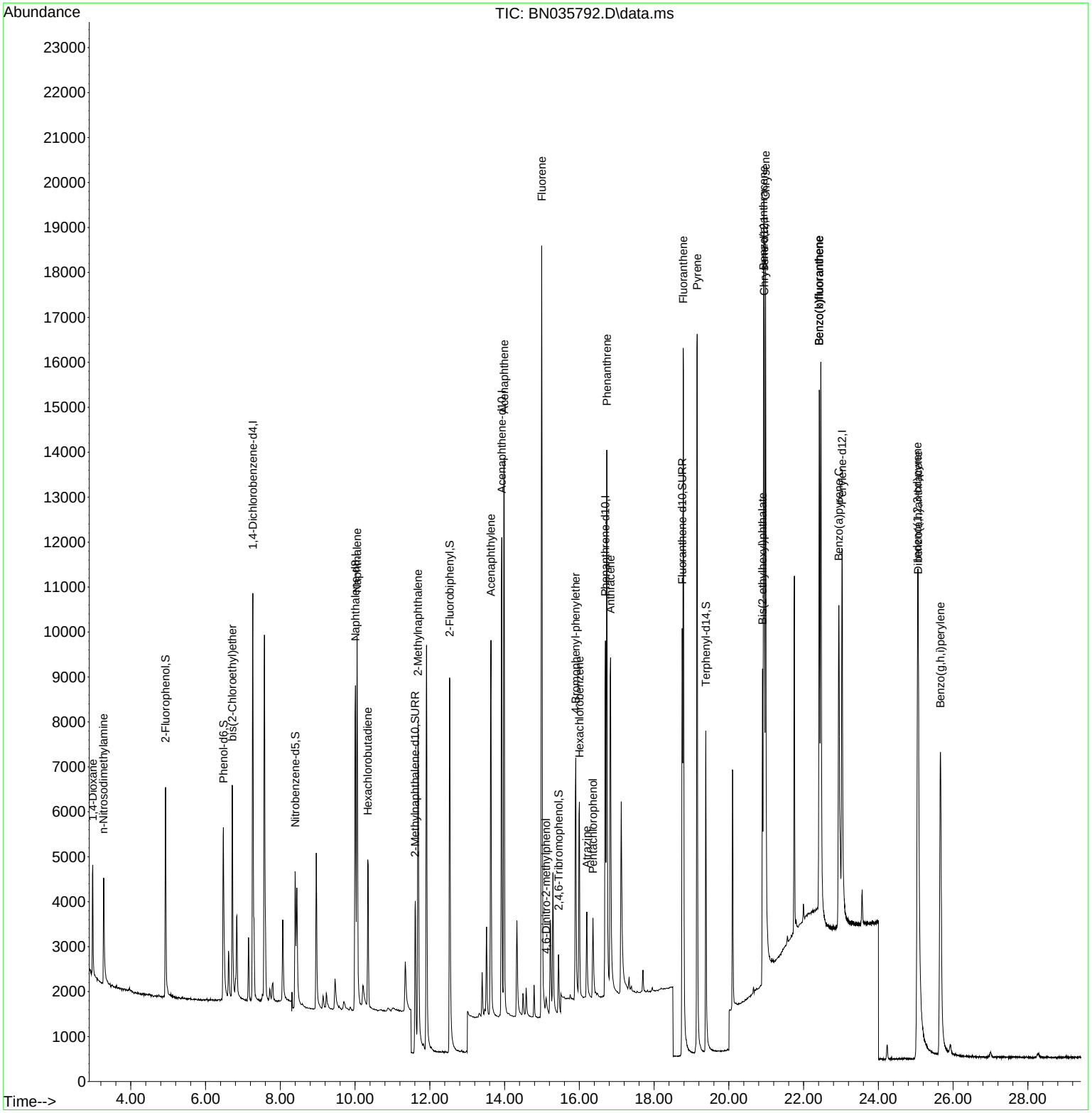
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.265	152	4653	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	11294	0.400	ng		#-0.01
13) Acenaphthene-d10	13.925	164	6622	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	13445	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	11173	0.400	ng		0.00
35) Perylene-d12	23.029	264	12122	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	4438	0.381	ng		0.00
5) Phenol-d6	6.477	99	4937	0.352	ng		-0.01
8) Nitrobenzene-d5	8.397	82	3594	0.521	ng		-0.01
11) 2-Methylnaphthalene-d10	11.611	152	6296	0.356	ng		-0.01
14) 2,4,6-Tribromophenol	15.443	330	1460	0.311	ng		-0.01
15) 2-Fluorobiphenyl	12.534	172	10050	0.401	ng		-0.01
27) Fluoranthene-d10	18.752	212	13067	0.343	ng		0.00
31) Terphenyl-d14	19.384	244	9007	0.409	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1781	0.400	ng		100
3) n-Nitrosodimethylamine	3.271	42	1450	0.391	ng	#	87
6) bis(2-Chloroethyl)ether	6.716	93	4124	0.350	ng		100
9) Naphthalene	10.052	128	11411	0.383	ng		99
10) Hexachlorobutadiene	10.340	225	2978	0.433	ng	#	99
12) 2-Methylnaphthalene	11.687	142	7291	0.342	ng		100
16) Acenaphthylene	13.636	152	10309	0.371	ng		99
17) Acenaphthene	13.989	154	7045	0.382	ng		99
18) Fluorene	14.994	166	9147	0.346	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	441	0.334	ng	#	71
21) 4-Bromophenyl-phenylether	15.904	248	2928	0.372	ng	#	95
22) Hexachlorobenzene	16.003	284	4080	0.442	ng		97
23) Atrazine	16.202	200	2050	0.366	ng		94
24) Pentachlorophenol	16.363	266	1288	0.321	ng		89
25) Phenanthrene	16.736	178	13655	0.370	ng		100
26) Anthracene	16.835	178	11693	0.350	ng		99
28) Fluoranthene	18.780	202	16797	0.337	ng		100
30) Pyrene	19.152	202	17165	0.416	ng		100
32) Benzo(a)anthracene	20.929	228	13119	0.336	ng		100
33) Chrysene	20.983	228	16717	0.415	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6294	0.408	ng		100
36) Indeno(1,2,3-cd)pyrene	25.050	276	17740	0.374	ng		99
37) Benzo(b)fluoranthene	22.418	252	23904	0.539	ng		99
38) Benzo(k)fluoranthene	22.418	252	23904	0.548	ng		99
39) Benzo(a)pyrene	22.942	252	13375	0.366	ng	#	93
40) Dibenzo(a,h)anthracene	25.067	278	13081	0.350	ng		97
41) Benzo(g,h,i)perylene	25.661	276	15725	0.402	ng		100

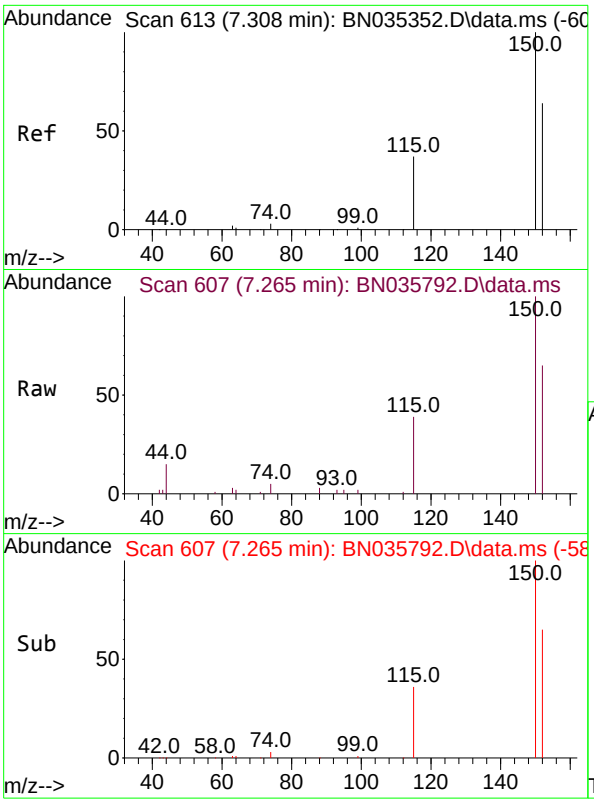
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



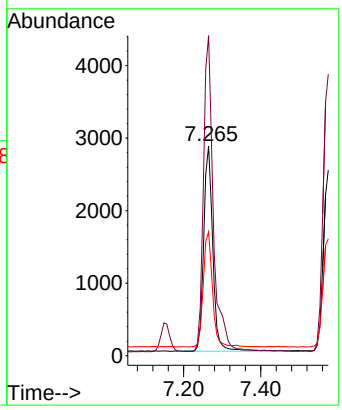


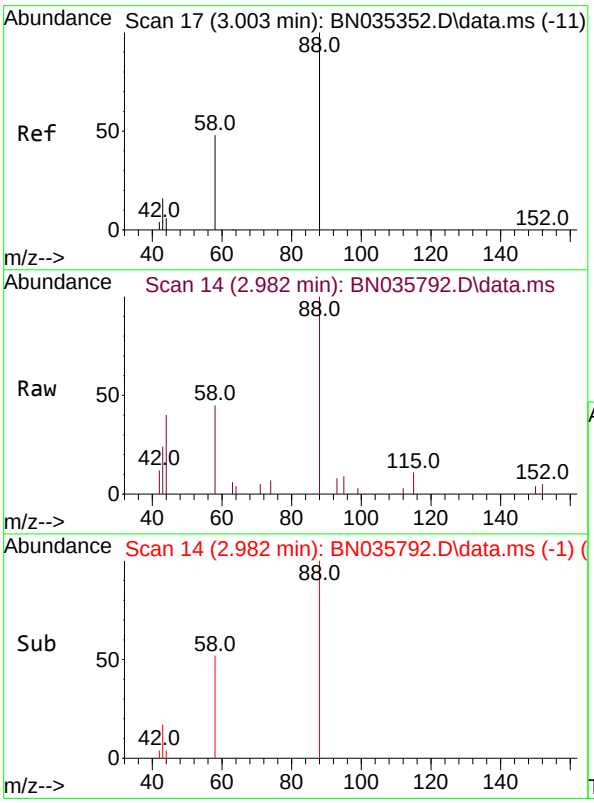
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4653

Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.0	186.0
115	59.2	49.6	74.4

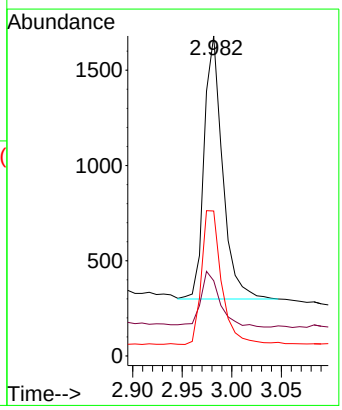


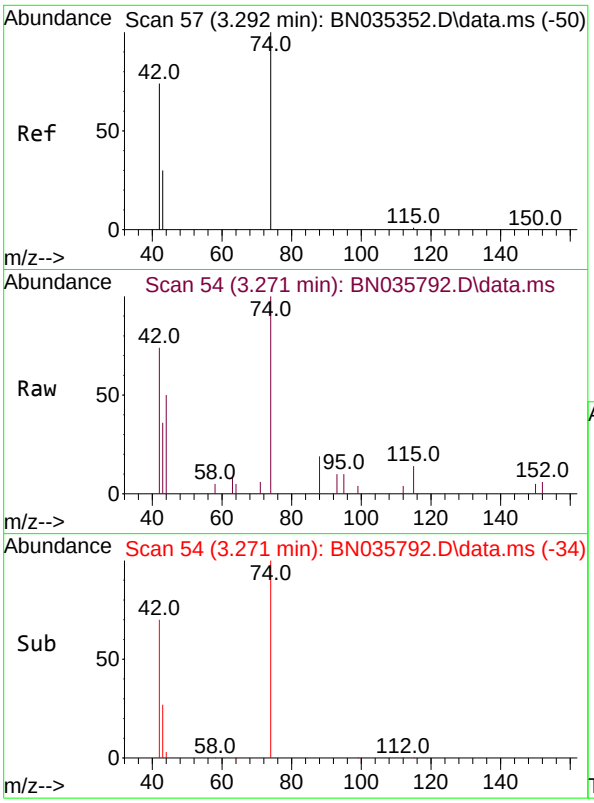


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 88 Resp: 1781

Ion	Ratio	Lower	Upper
88	100		
43	22.0	17.2	25.8
58	55.8	44.5	66.7



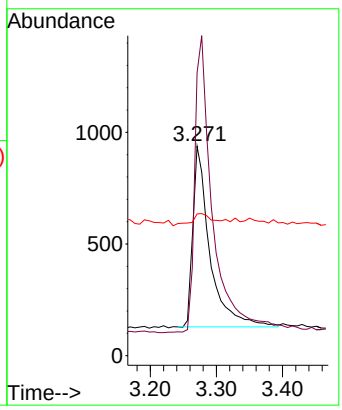


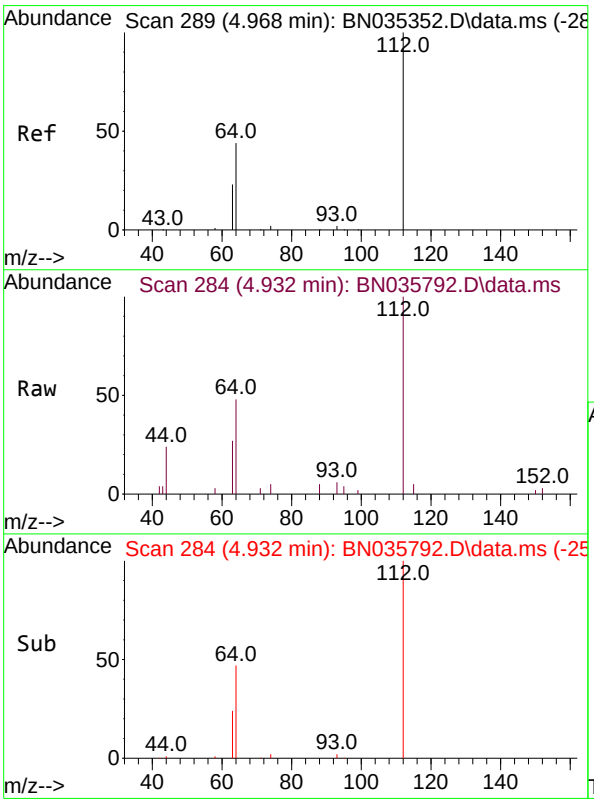
#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1450

Ion	Ratio	Lower	Upper
42	100		
74	173.0	124.9	187.3
44	5.2	2.2	3.4#

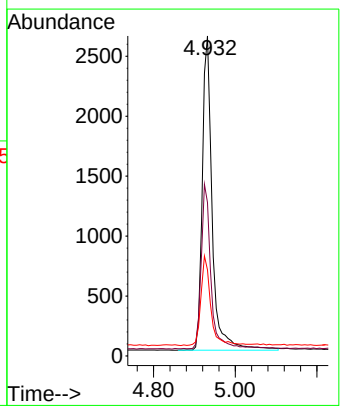


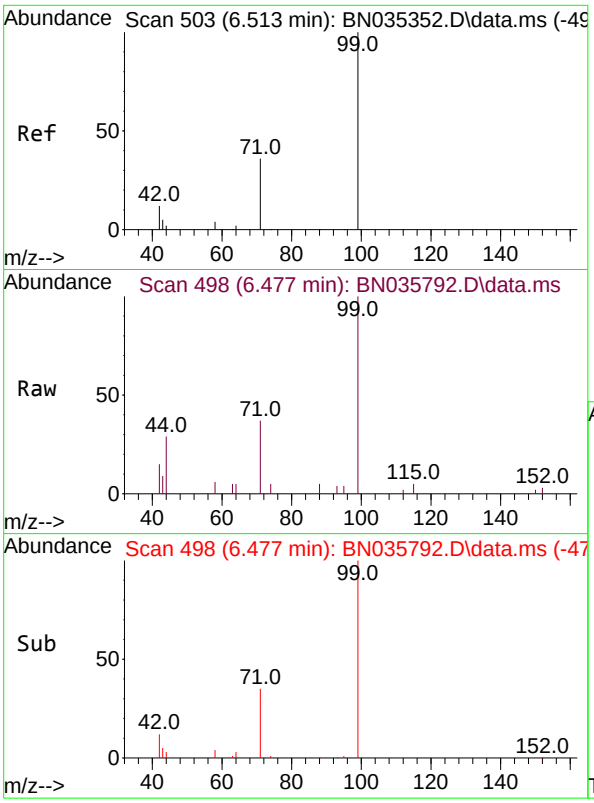


#4
2-Fluorophenol
Concen: 0.381 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:112 Resp: 4438

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.8
63	28.3	21.0	31.6



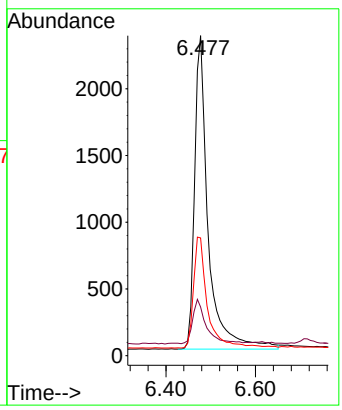


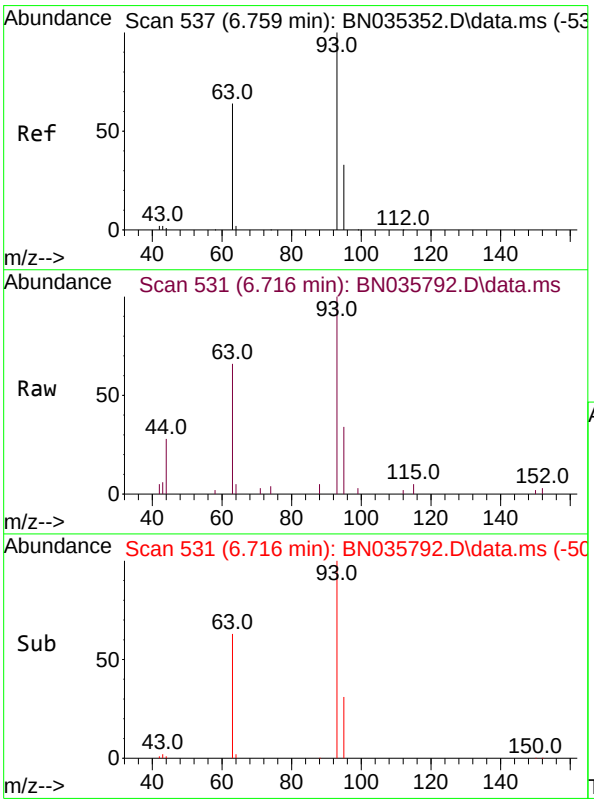
#5
Phenol-d6
Concen: 0.352 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 4937

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.4	29.3	43.9

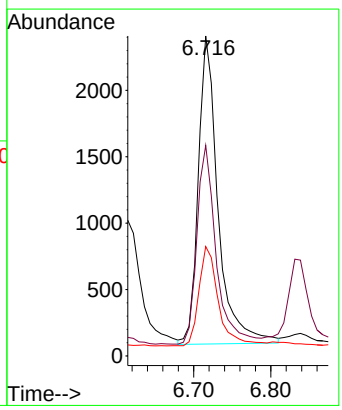


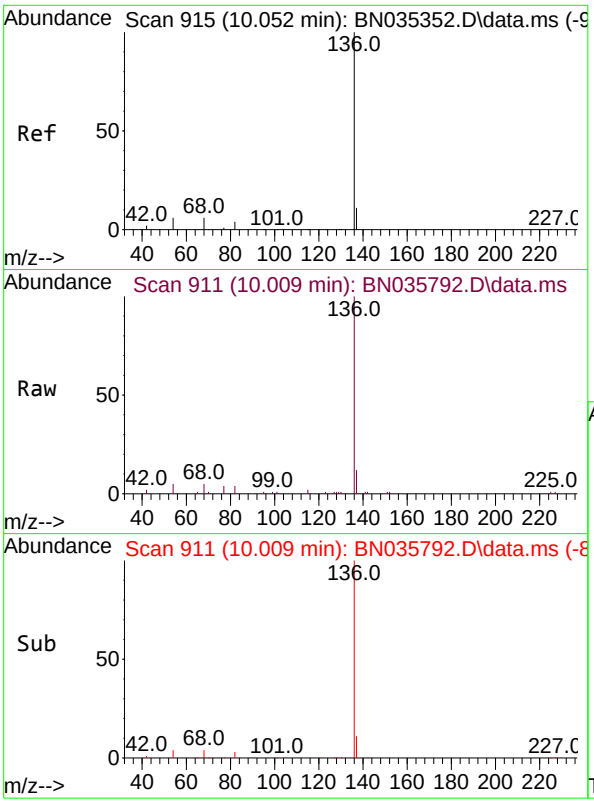


#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 93 Resp: 4124

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



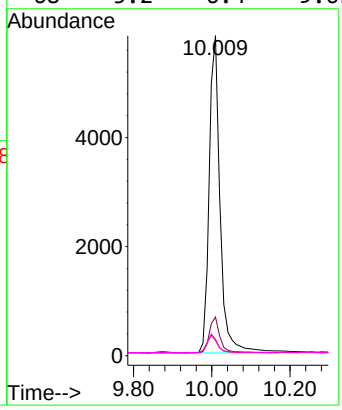


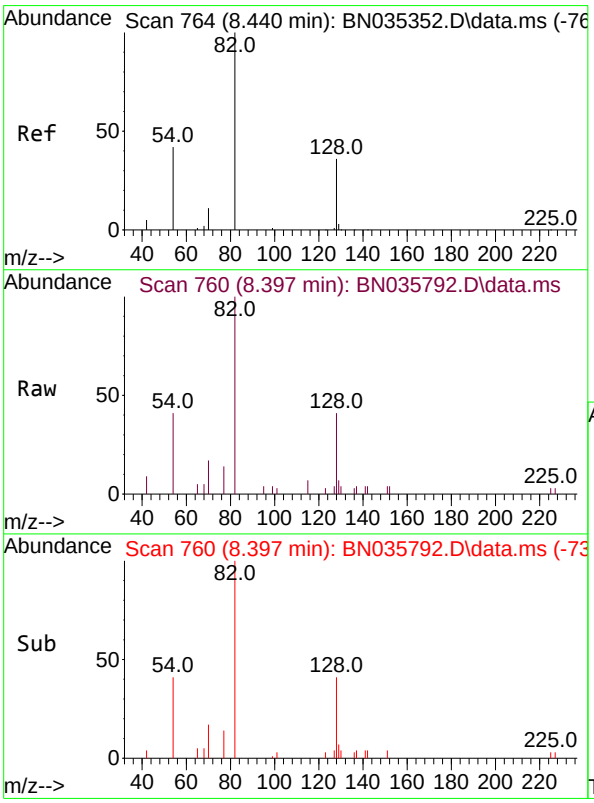
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 11294

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.2	6.4	9.6#

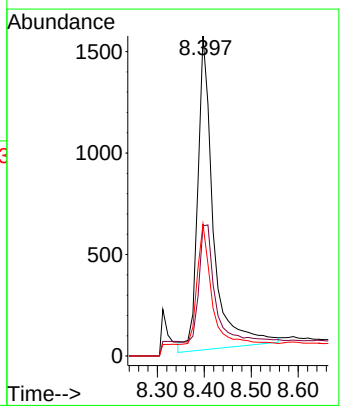


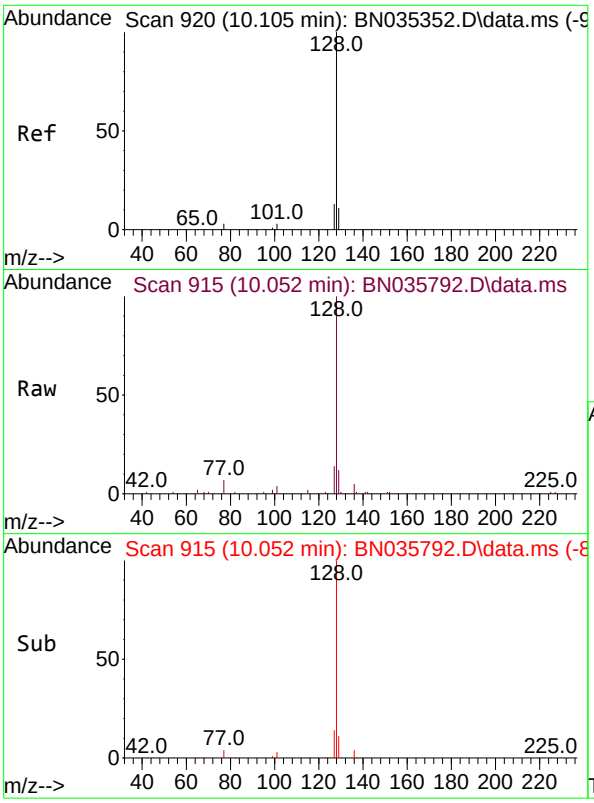


#8
Nitrobenzene-d5
Concen: 0.521 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 82 Resp: 3594

Ion	Ratio	Lower	Upper
82	100		
128	40.6	33.4	50.0
54	41.3	36.7	55.1



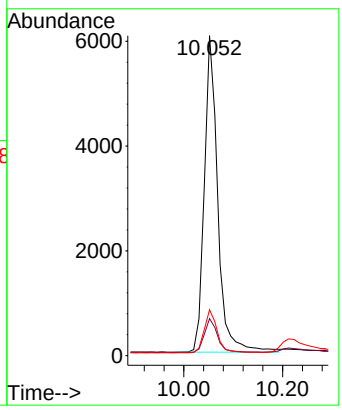


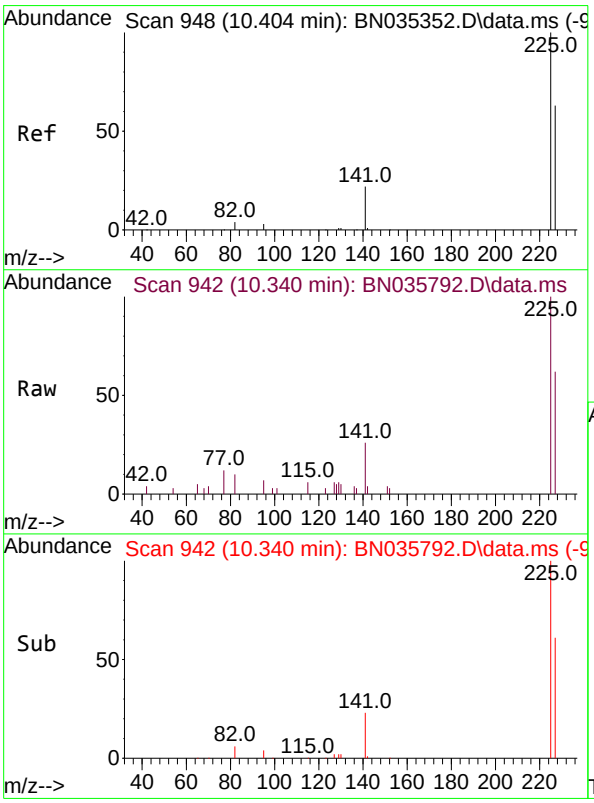
#9
Naphthalene
Concen: 0.383 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 11411

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.8	14.6
127	14.3	11.4	17.2

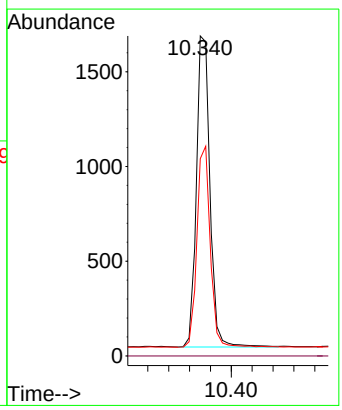


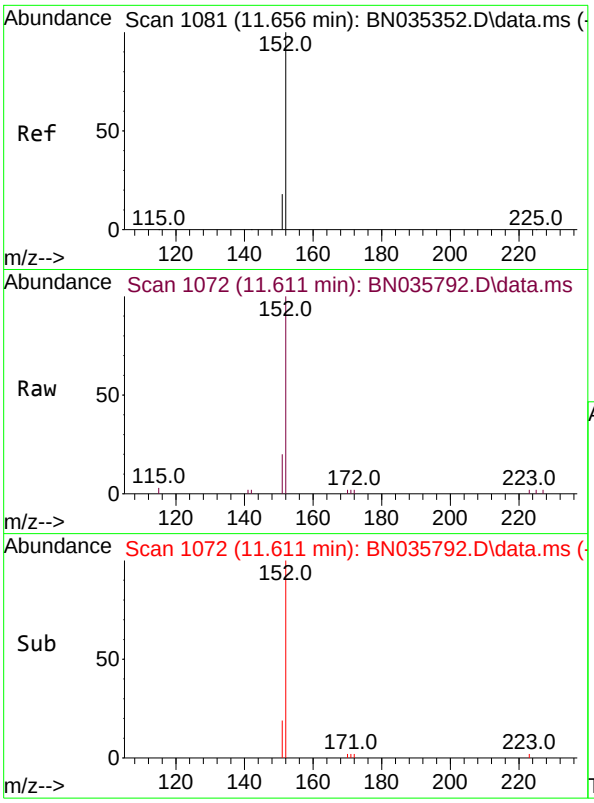


#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:225 Resp: 2978

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9



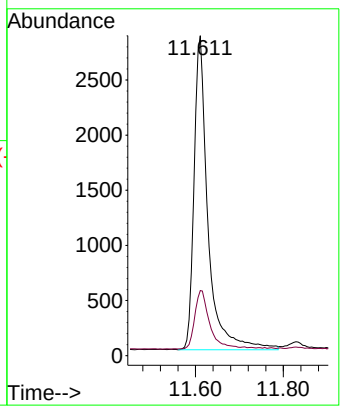


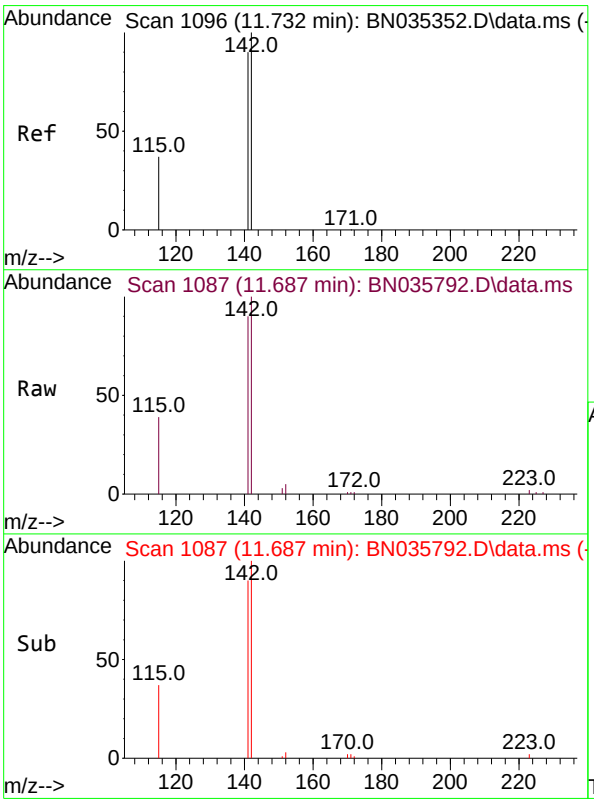
#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6296

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	25.0

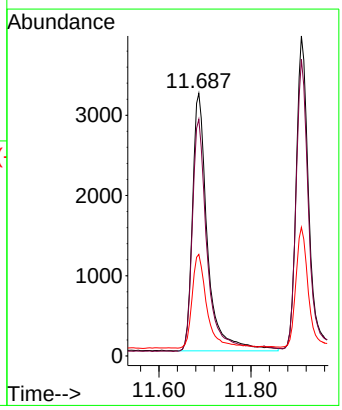


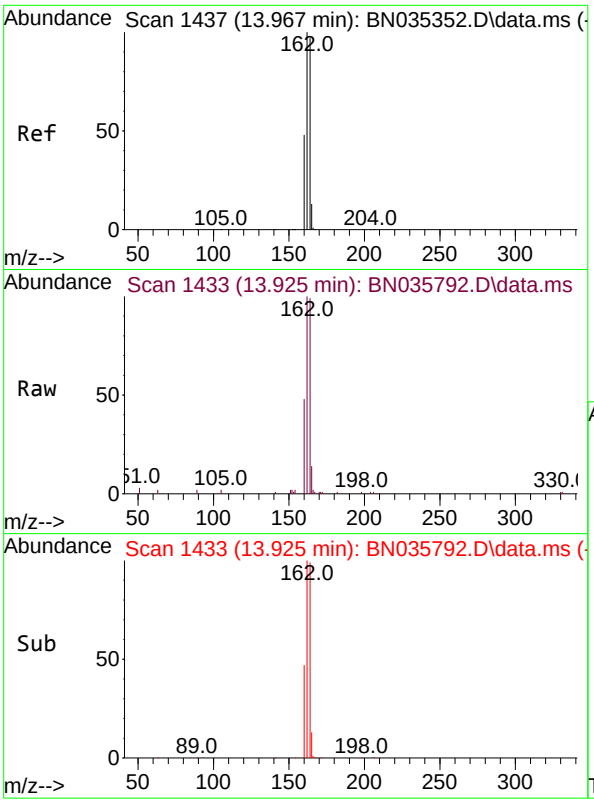


#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:142 Resp: 7291

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	38.7	31.4	47.0



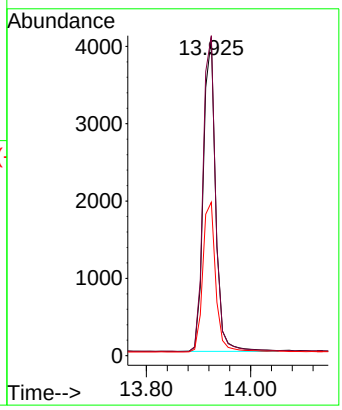


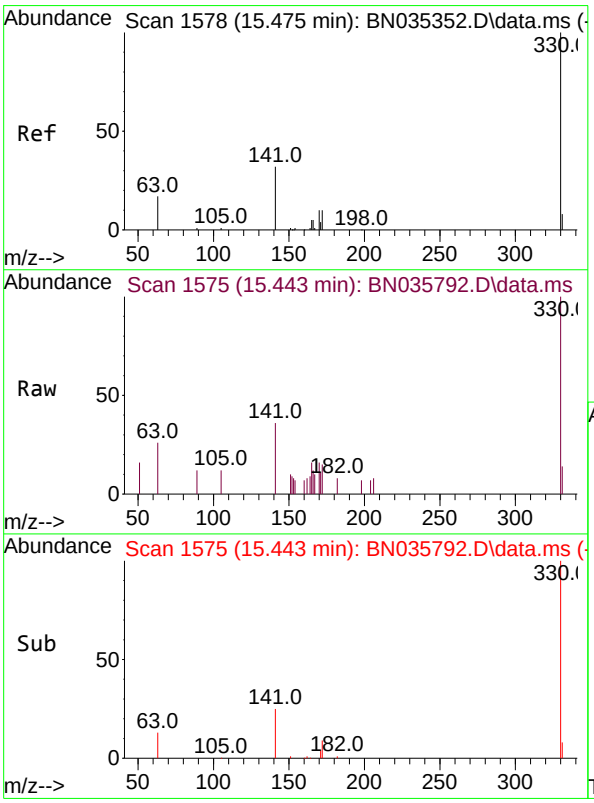
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 6622

Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.2	123.2
160	48.2	40.1	60.1

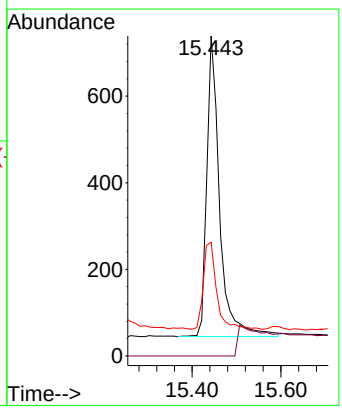


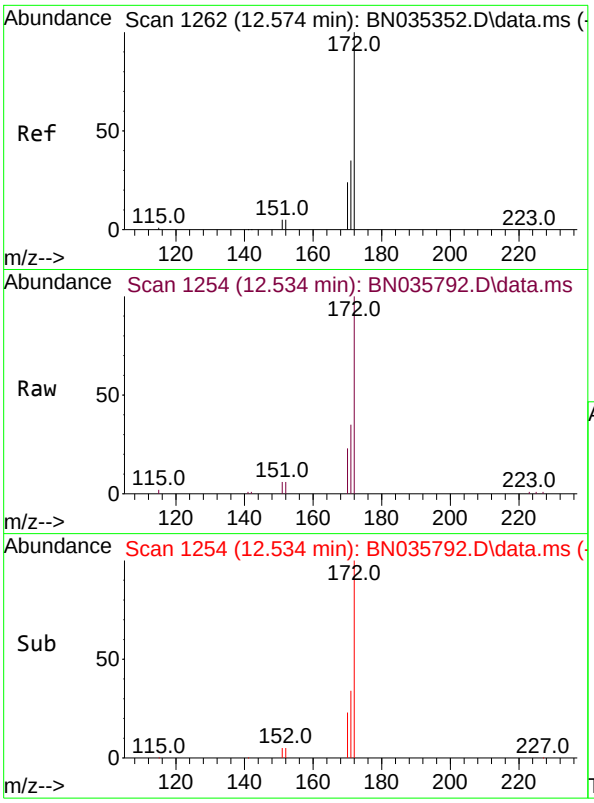


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:330 Resp: 1460

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0



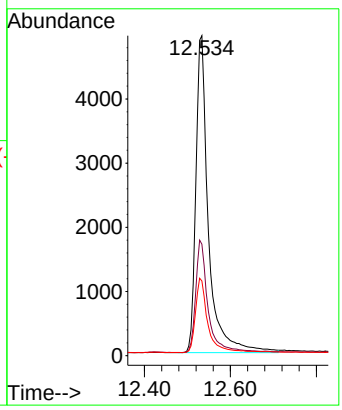


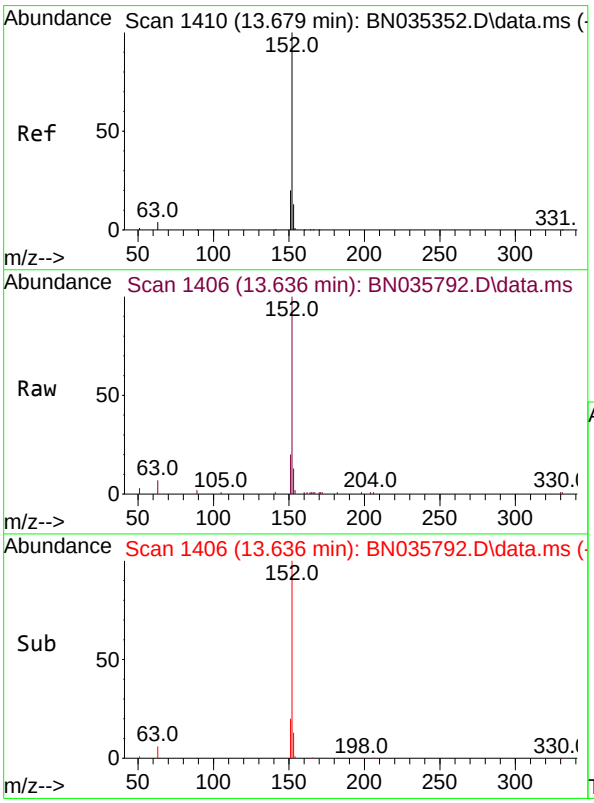
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 10050

Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.4
170	23.3	19.8	29.8

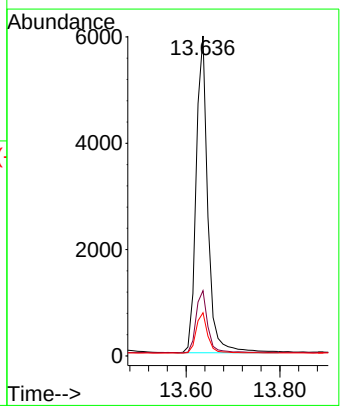


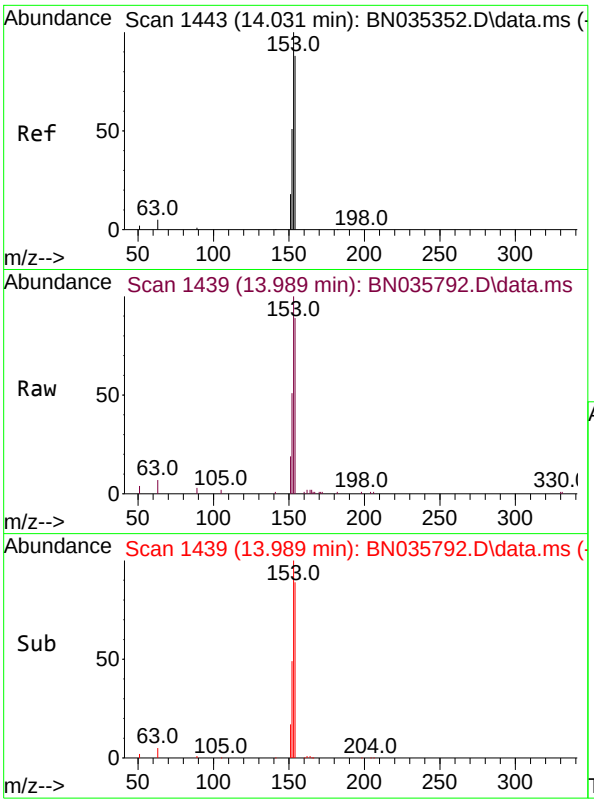


#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 10309

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	12.9	10.4	15.6



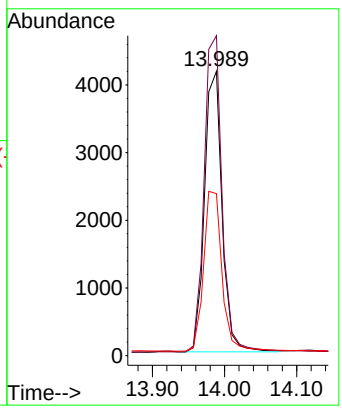


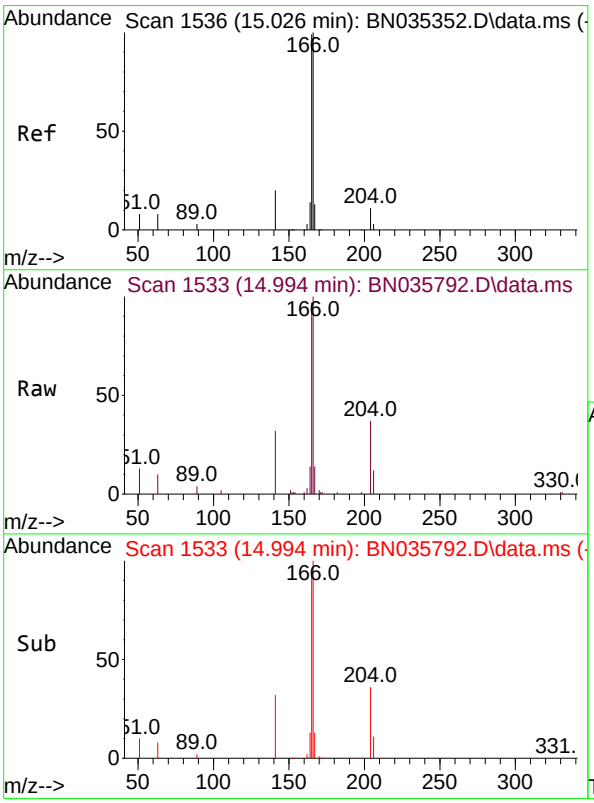
#17
Acenaphthene
Concen: 0.382 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 7045

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	60.1	49.0	73.6

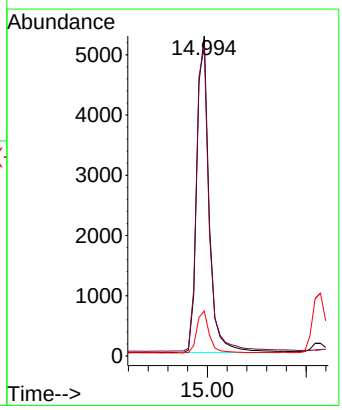


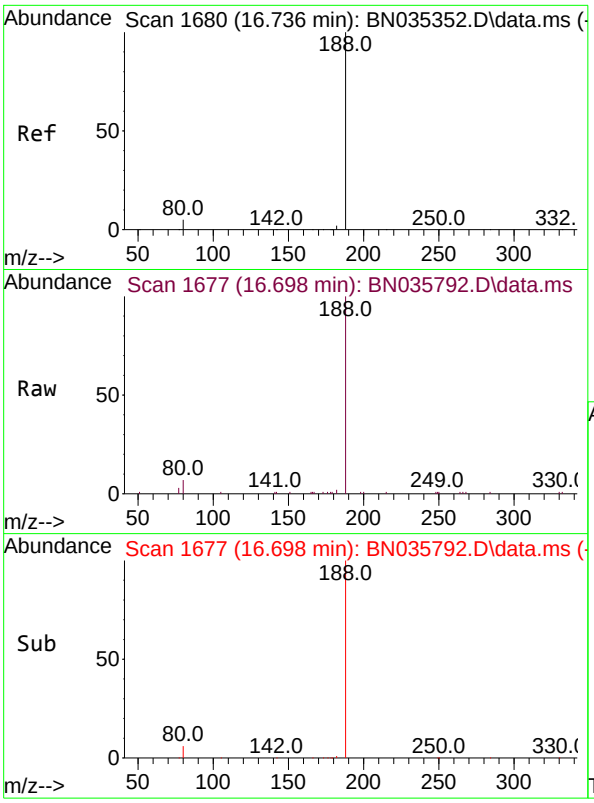


#18
Fluorene
Concen: 0.346 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:166 Resp: 9147

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	13.4	10.8	16.2



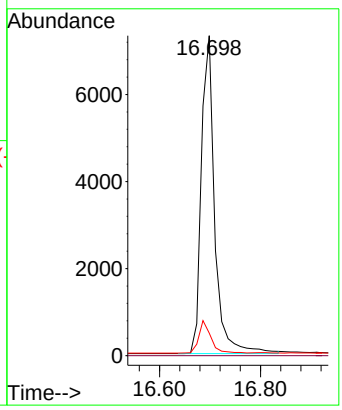


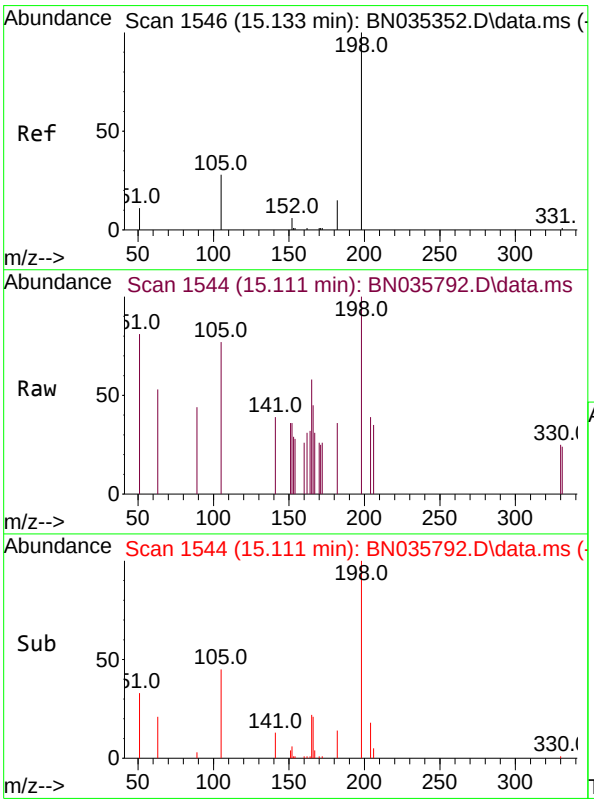
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13445

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.1	4.6	6.8#

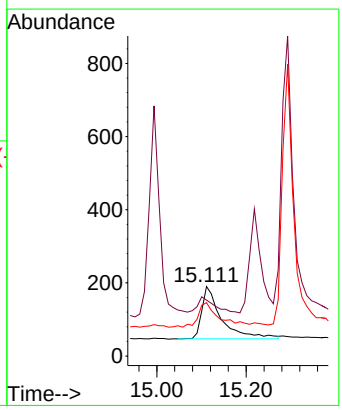


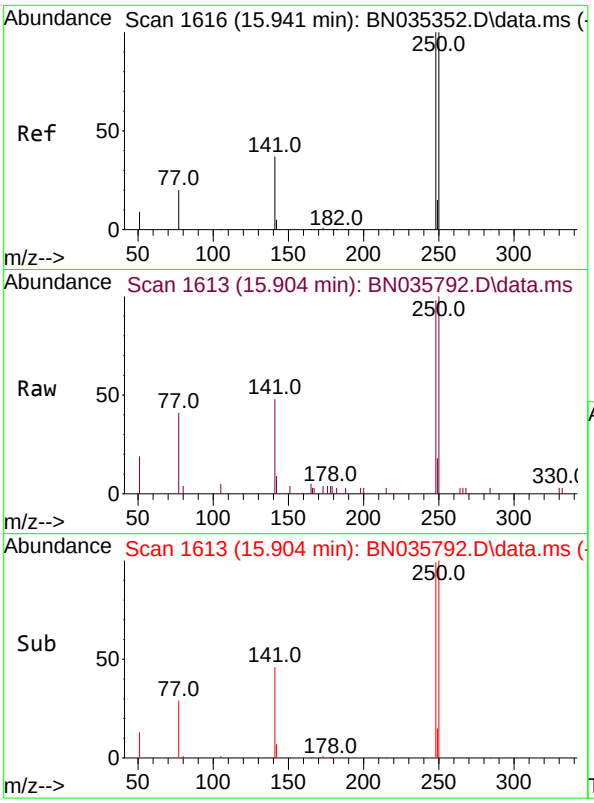


#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:198 Resp: 441

Ion	Ratio	Lower	Upper
198	100		
51	80.5	46.5	69.7#
105	76.8	45.3	67.9#



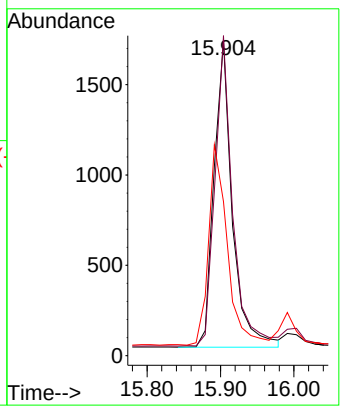


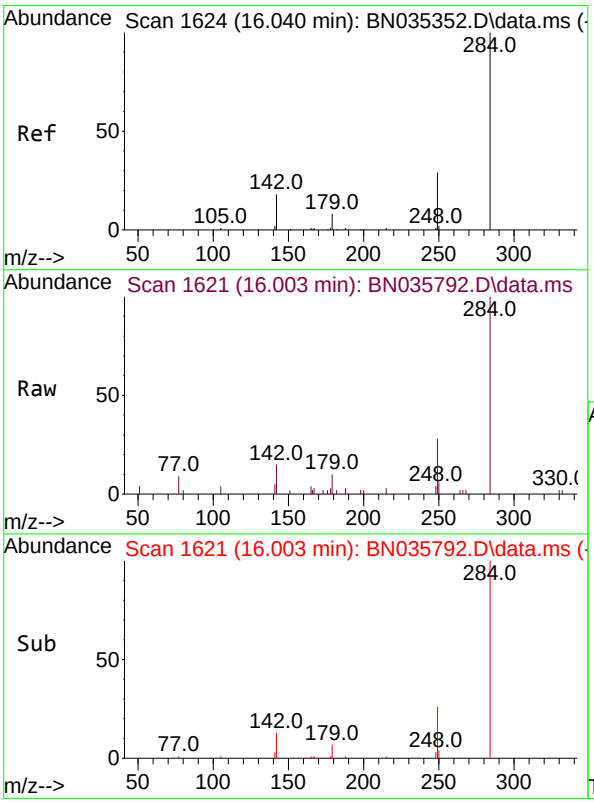
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2928

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	48.9	31.5	47.3#

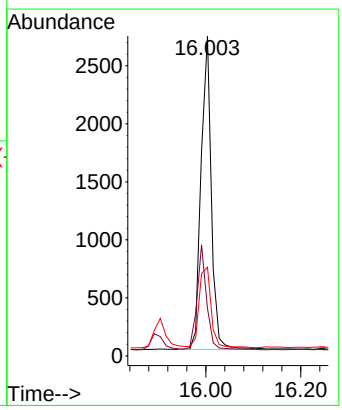


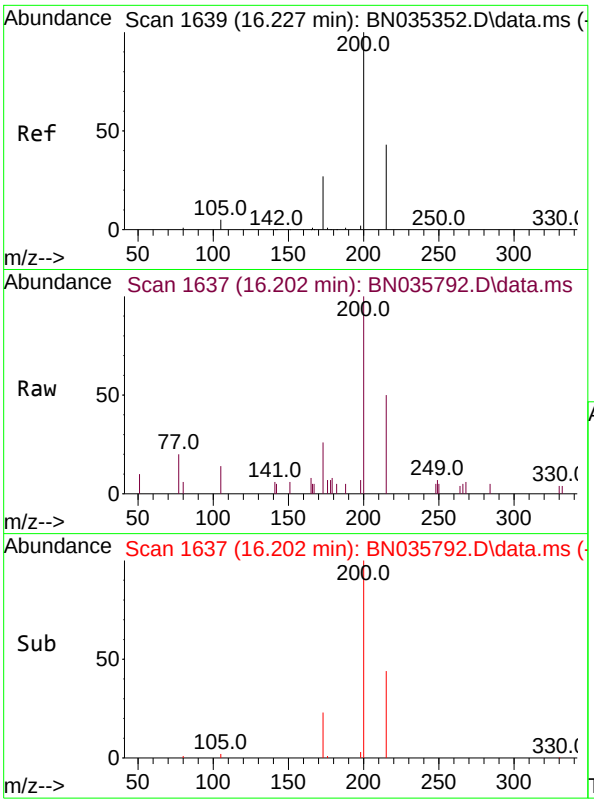


#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:284 Resp: 4080

Ion	Ratio	Lower	Upper
284	100		
142	31.0	26.7	40.1
249	30.0	24.6	36.8



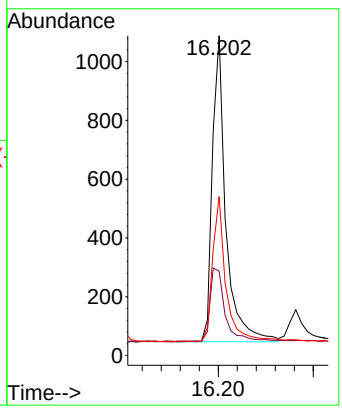


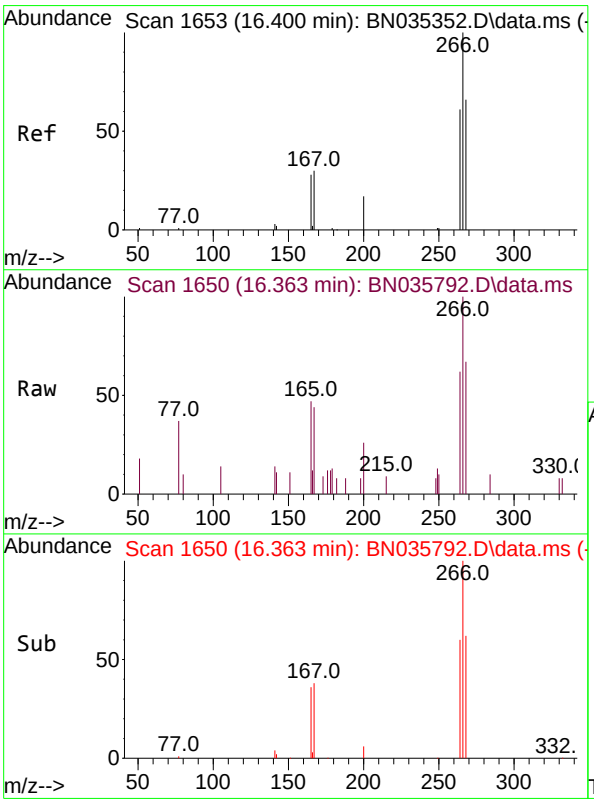
#23
Atrazine
Concen: 0.366 ng
RT: 16.202 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2050

Ion	Ratio	Lower	Upper
200	100		
173	26.4	24.1	36.1
215	49.7	36.9	55.3

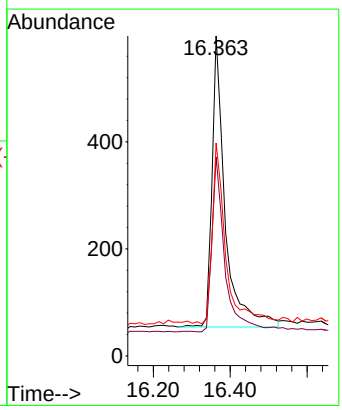


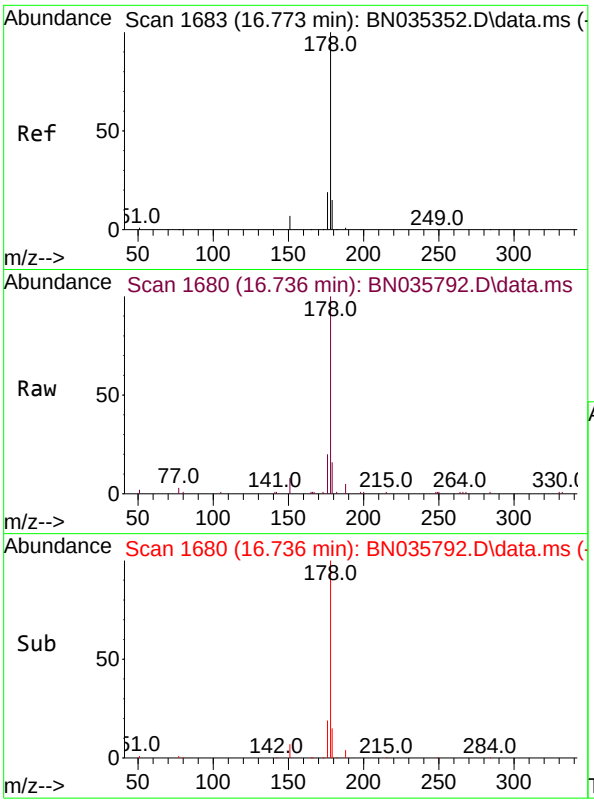


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:266 Resp: 1288

Ion	Ratio	Lower	Upper
266	100		
264	59.5	42.3	63.5
268	62.8	43.3	64.9



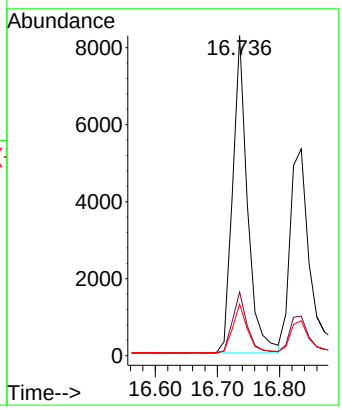


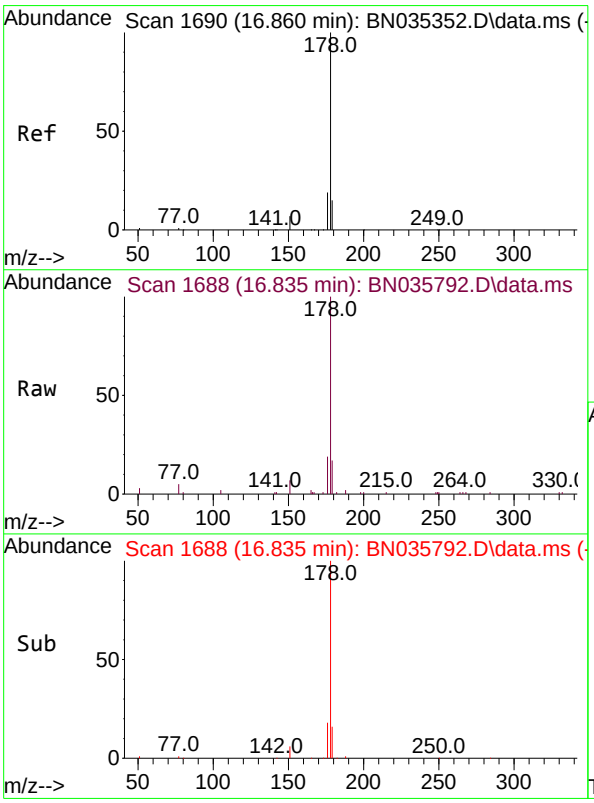
#25
Phenanthrene
Concen: 0.370 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 13655

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5

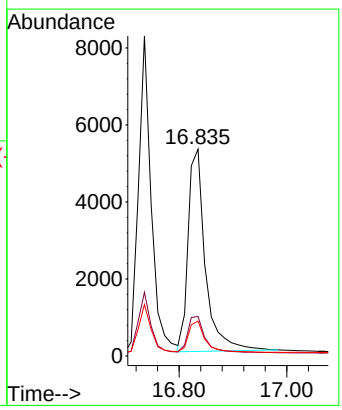


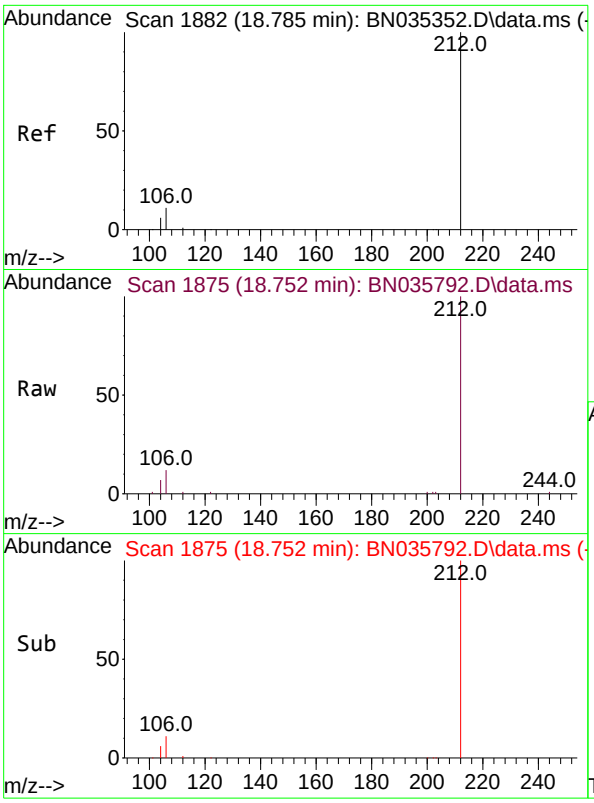


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 11693

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.4	12.6	18.8



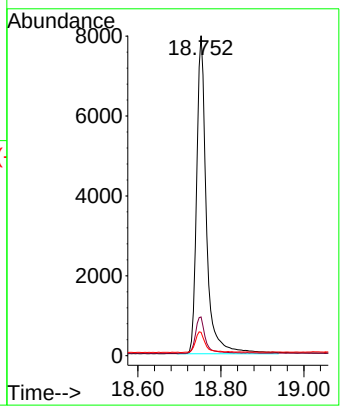


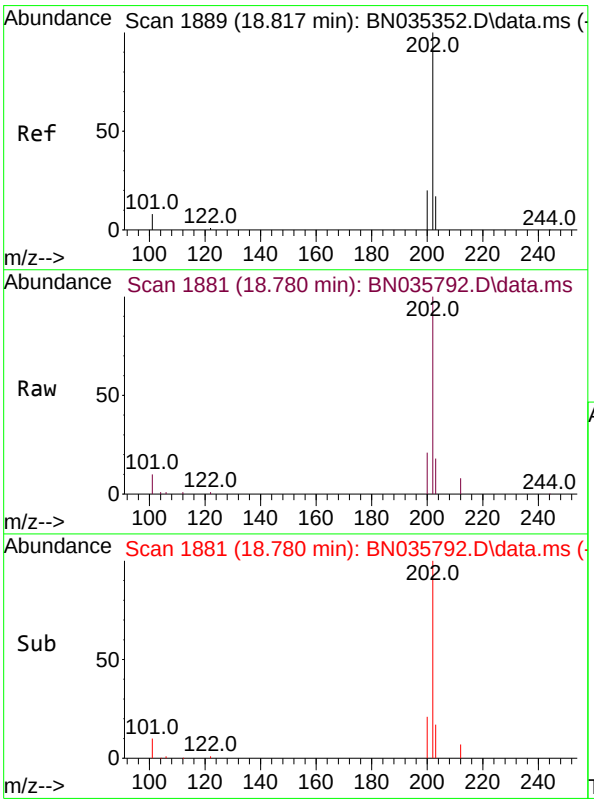
#27
Fluoranthene-d10
Concen: 0.343 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 13067

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.6	5.3	7.9

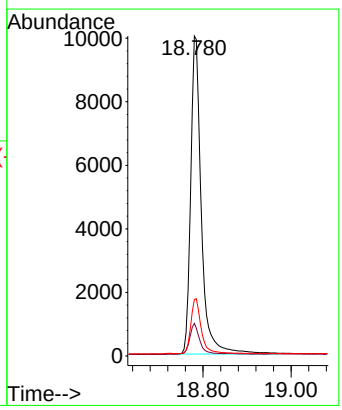


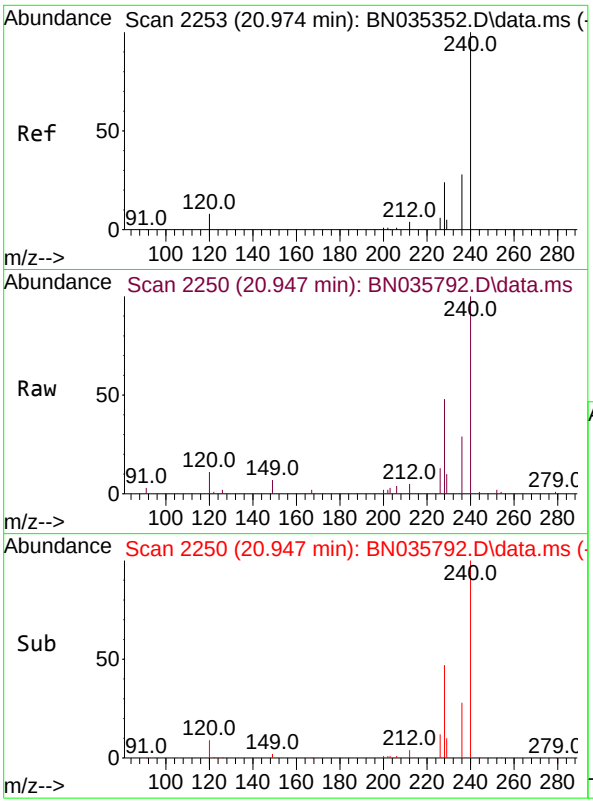


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 16797

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	16.9	13.7	20.5



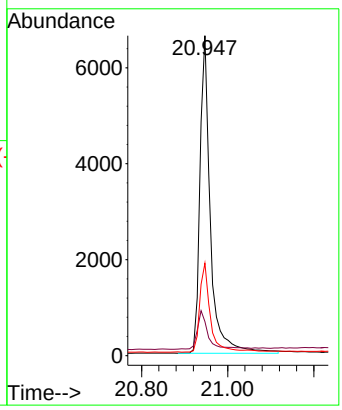


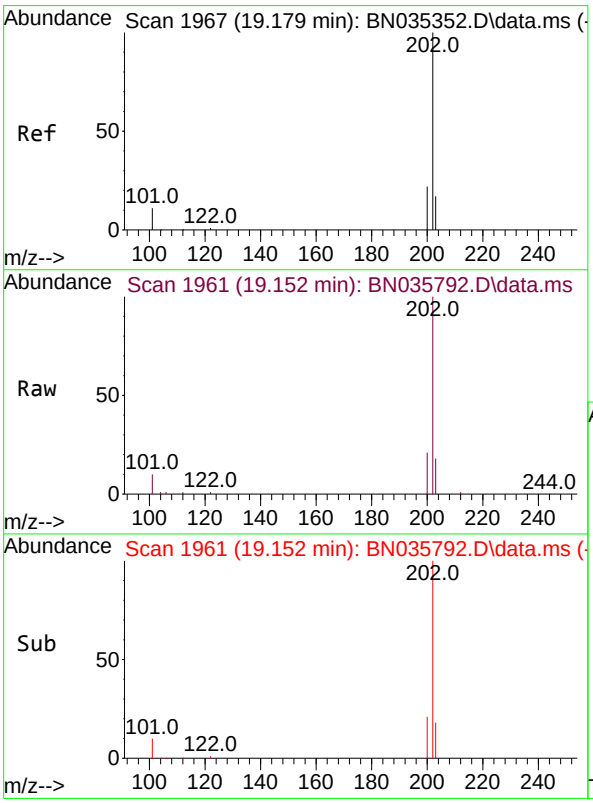
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 11173

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.9	11.9
236	28.9	22.9	34.3

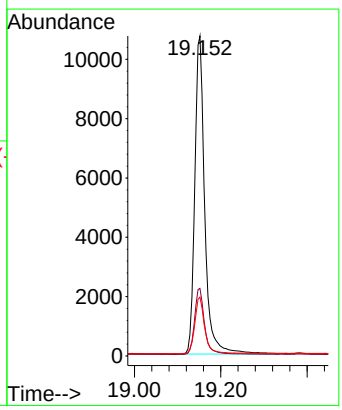


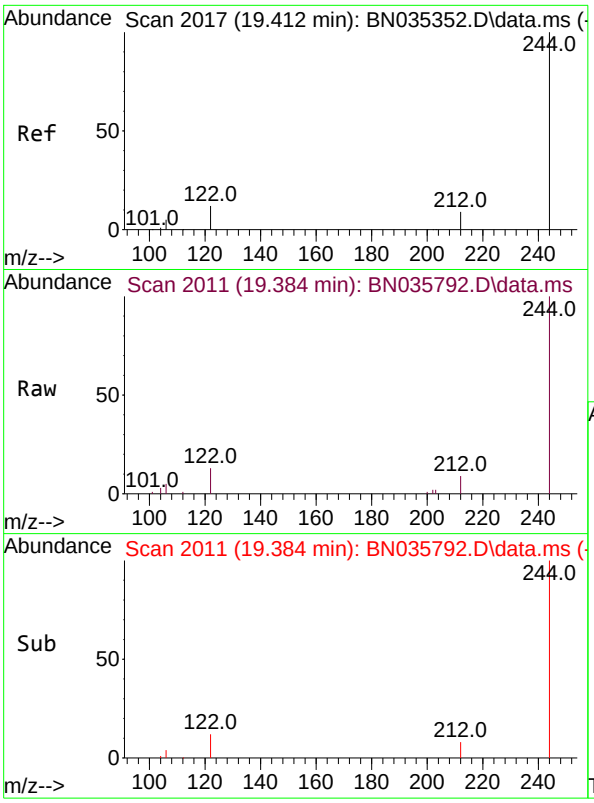


#30
Pyrene
Concen: 0.416 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 17165

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5



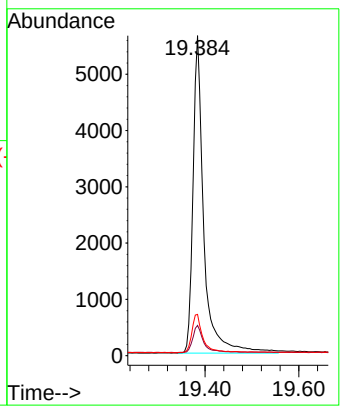


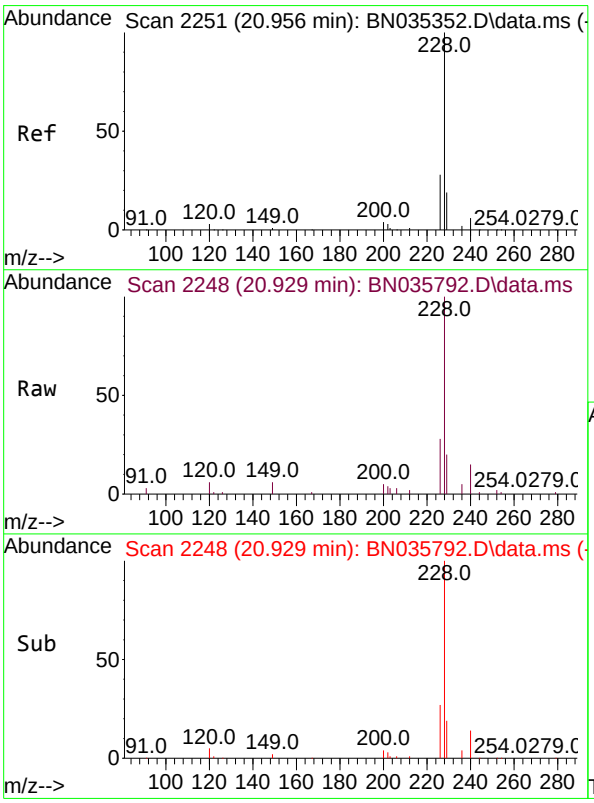
#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 9007

Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	12.9	10.3	15.5

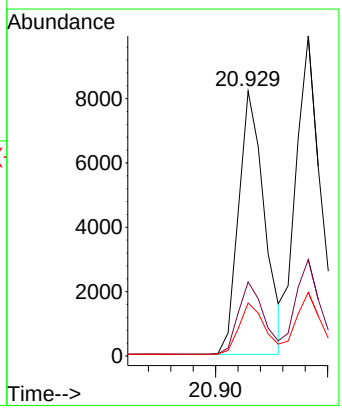


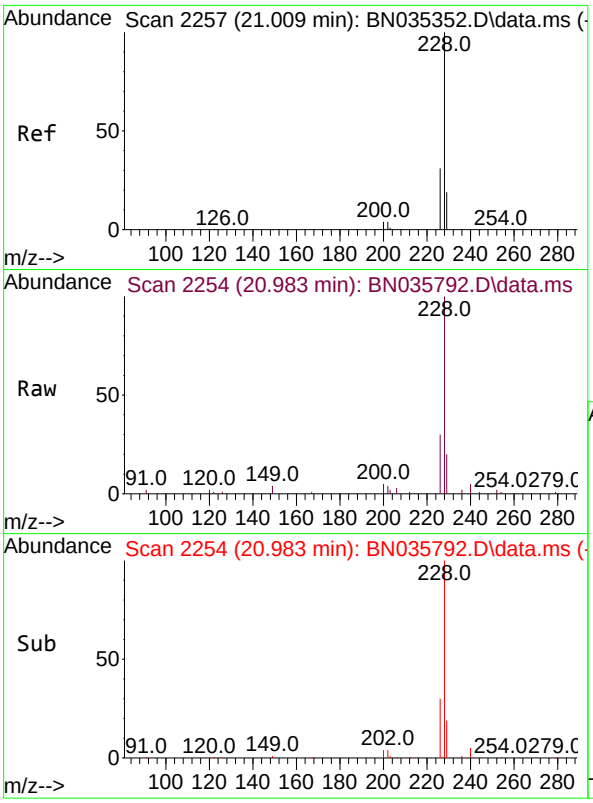


#32
Benzo(a)anthracene
Concen: 0.336 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:228 Resp: 13119

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8



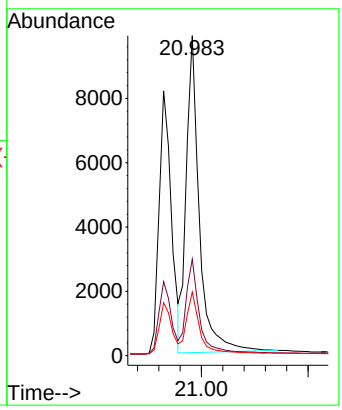


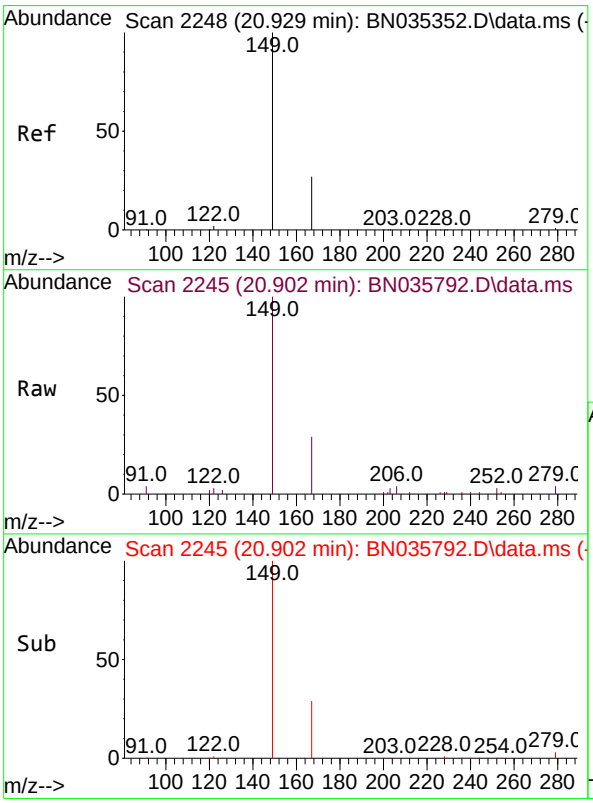
#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 16717

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	19.9	15.9	23.9

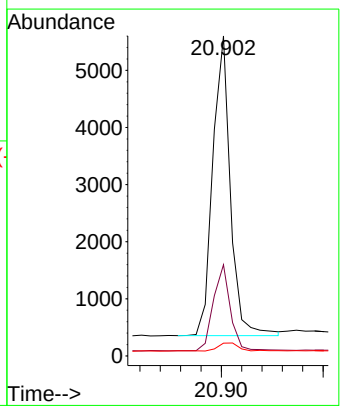


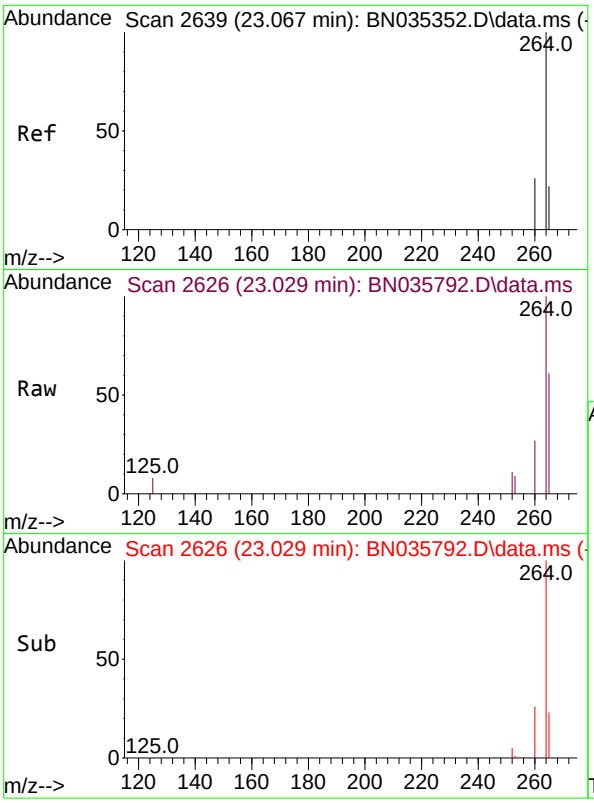


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:149 Resp: 6294

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1



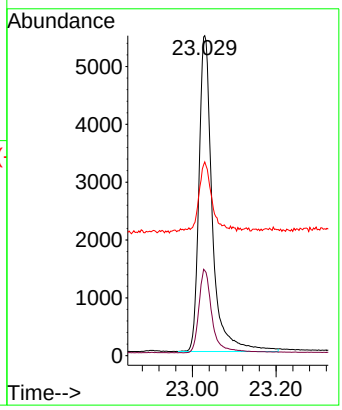


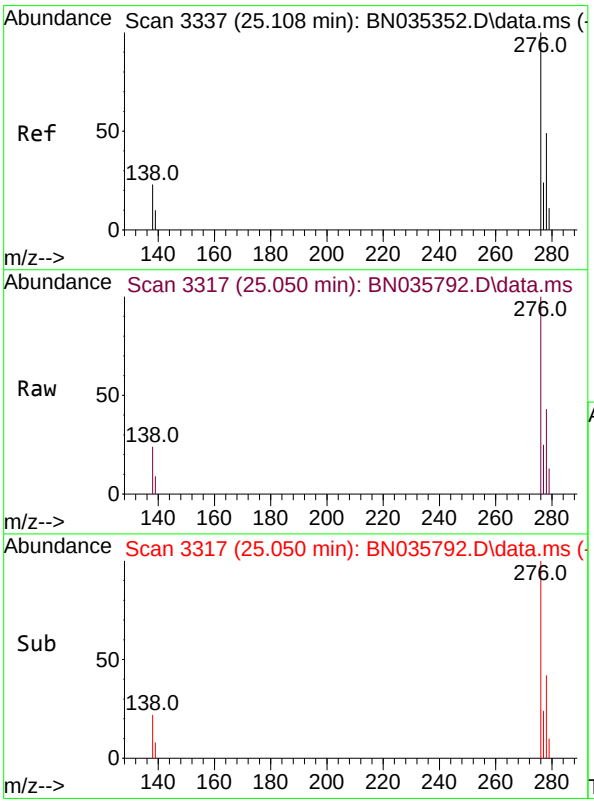
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 12122

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	60.5	40.2	60.4#

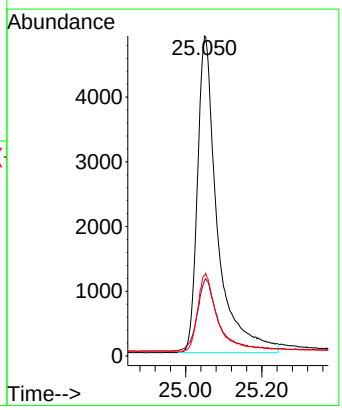


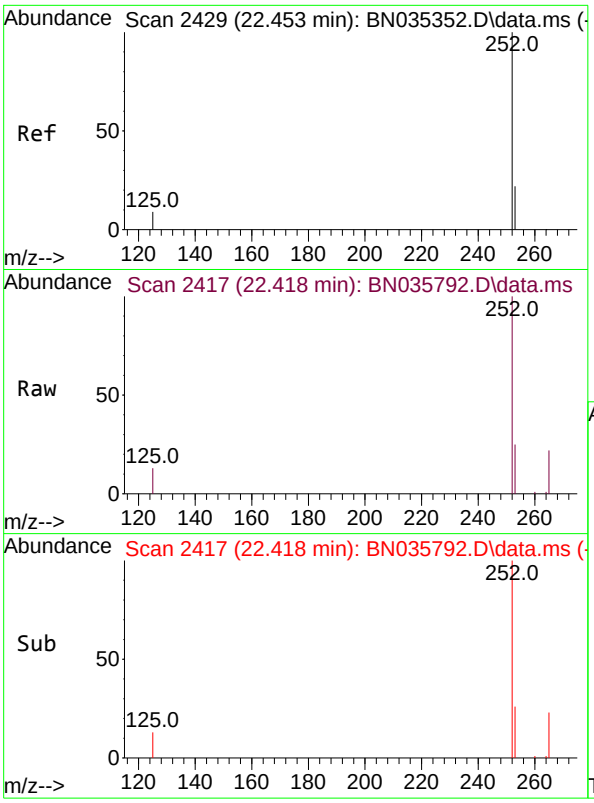


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 17740

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.2	19.8	29.6



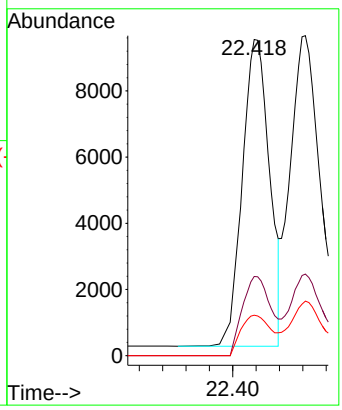


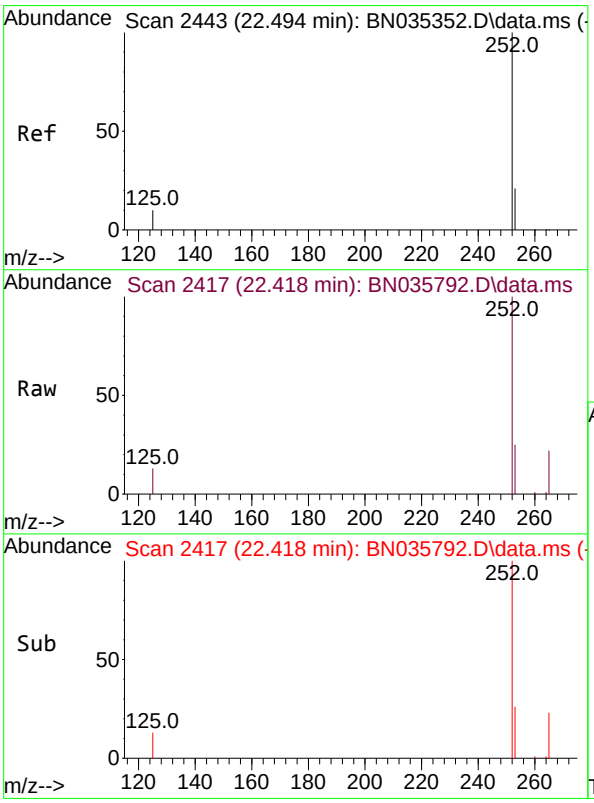
#37
Benzo(b)fluoranthene
Concen: 0.539 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 23904

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	12.8	9.6	14.4

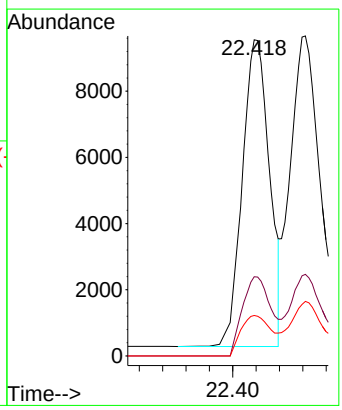


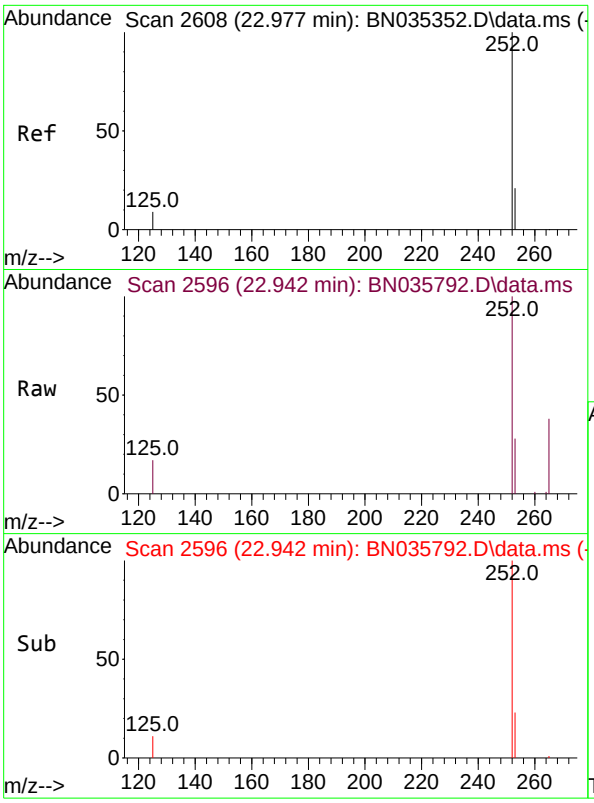


#38
Benzo(k)fluoranthene
Concen: 0.548 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:252 Resp: 23904

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.5	29.3
125	12.8	10.2	15.4



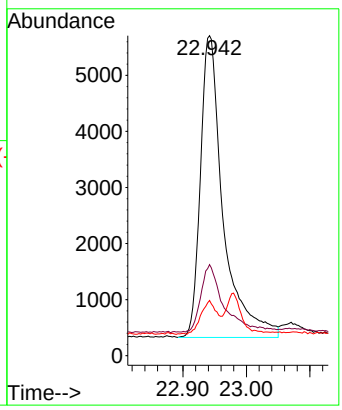


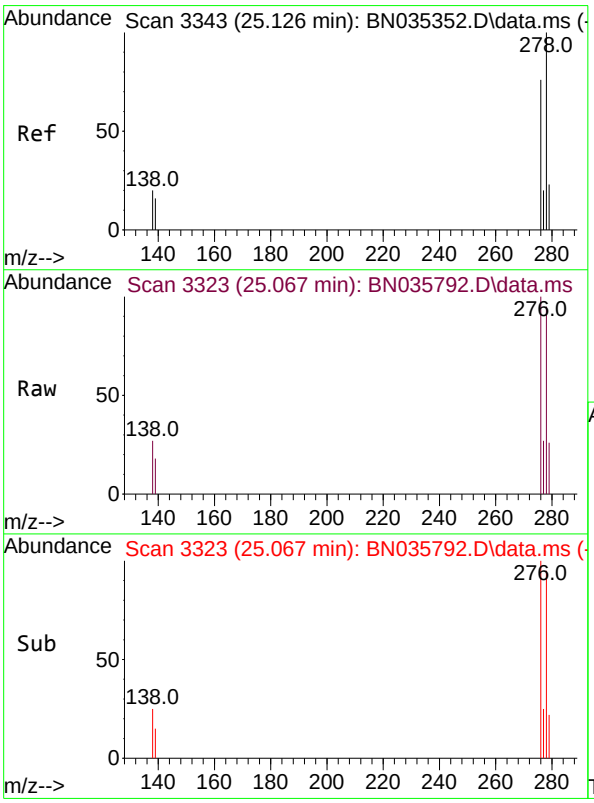
#39
Benzo(a)pyrene
Concen: 0.366 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13375

Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	17.2	10.9	16.3#

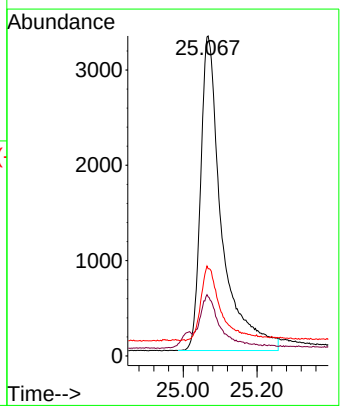


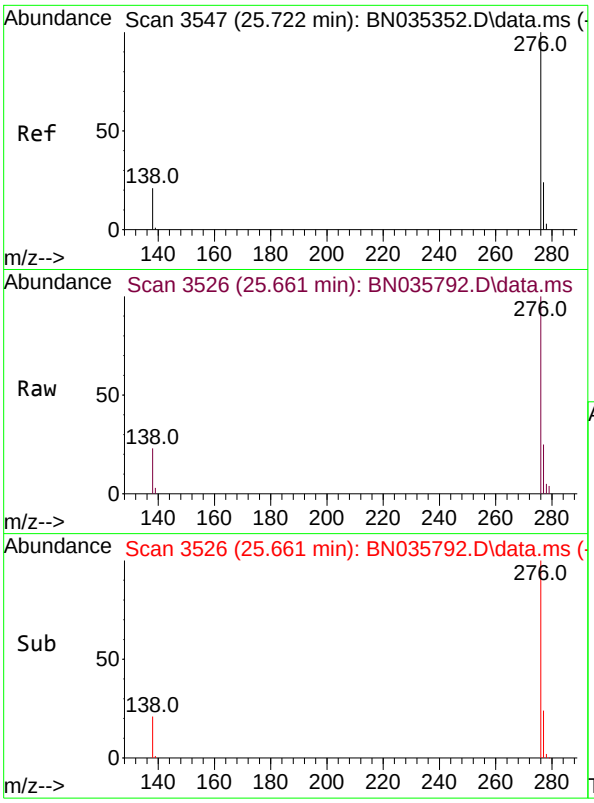


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:278 Resp: 13081

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.2	21.4
279	27.2	20.5	30.7



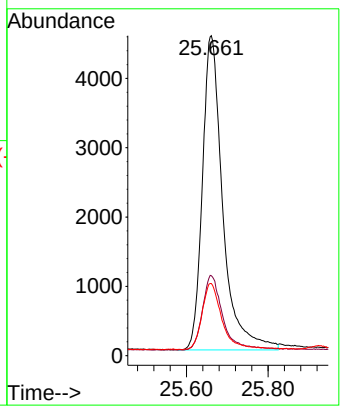


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 15725

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.9	29.9
138	22.5	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

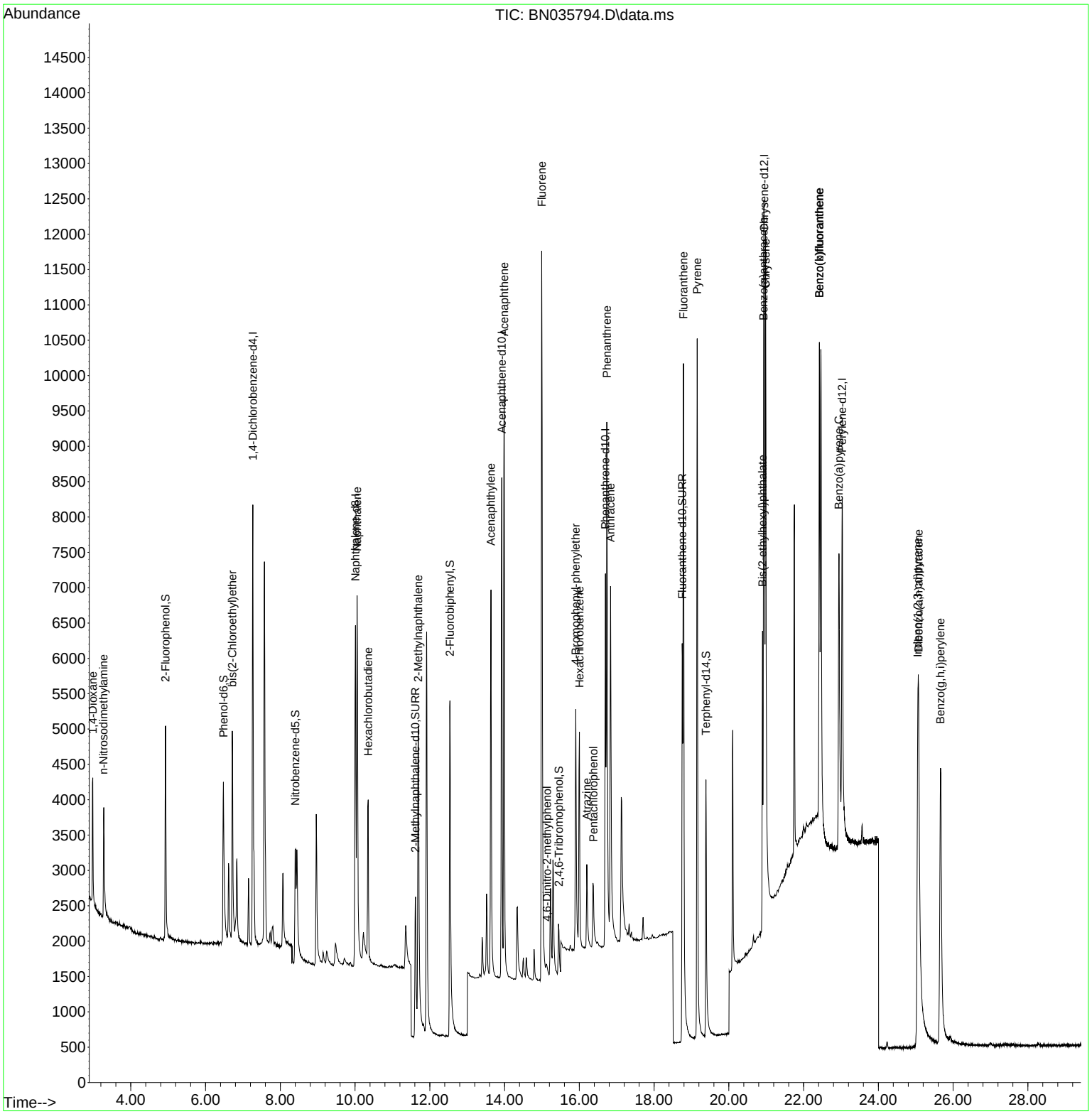
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3234	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	7877	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	4482	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	8845	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7163	0.400	ng		# 0.00
35) Perylene-d12	23.032	264	7277	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	2987	0.369	ng		0.00
5) Phenol-d6	6.477	99	3287	0.338	ng		-0.01
8) Nitrobenzene-d5	8.397	82	2444	0.508	ng		-0.01
11) 2-Methylnaphthalene-d10	11.615	152	4254	0.345	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	932	0.293	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	6854	0.405	ng		0.00
27) Fluoranthene-d10	18.752	212	8405	0.335	ng		0.00
31) Terphenyl-d14	19.388	244	5620	0.398	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1355	0.438	ng		100
3) n-Nitrosodimethylamine	3.270	42	1052	0.409	ng	#	95
6) bis(2-Chloroethyl)ether	6.715	93	2845	0.348	ng		97
9) Naphthalene	10.052	128	7865	0.379	ng		100
10) Hexachlorobutadiene	10.351	225	2082	0.434	ng	#	100
12) 2-Methylnaphthalene	11.692	142	5023	0.338	ng		99
16) Acenaphthylene	13.636	152	6992	0.372	ng		99
17) Acenaphthene	13.989	154	4714	0.377	ng		99
18) Fluorene	14.993	166	6004	0.336	ng		100
20) 4,6-Dinitro-2-methylph...	15.132	198	221	0.254	ng	#	12
21) 4-Bromophenyl-phenylether	15.904	248	1918	0.371	ng	#	86
22) Hexachlorobenzene	16.003	284	2804	0.462	ng		97
23) Atrazine	16.202	200	1338	0.363	ng		96
24) Pentachlorophenol	16.375	266	783	0.296	ng		87
25) Phenanthrene	16.735	178	8831	0.363	ng		100
26) Anthracene	16.835	178	7665	0.349	ng		99
28) Fluoranthene	18.785	202	11004	0.336	ng		100
30) Pyrene	19.152	202	11228	0.425	ng		99
32) Benzo(a)anthracene	20.929	228	7716	0.308	ng		100
33) Chrysene	20.983	228	11129	0.431	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4068	0.411	ng		99
36) Indeno(1,2,3-cd)pyrene	25.055	276	10012	0.352	ng		98
37) Benzo(b)fluoranthene	22.421	252	14187	0.533	ng	#	95
38) Benzo(k)fluoranthene	22.421	252	14187	0.541	ng		95
39) Benzo(a)pyrene	22.944	252	8141	0.371	ng	#	87
40) Dibenzo(a,h)anthracene	25.076	278	7465	0.333	ng	#	91
41) Benzo(g,h,i)perylene	25.663	276	9418	0.401	ng		98

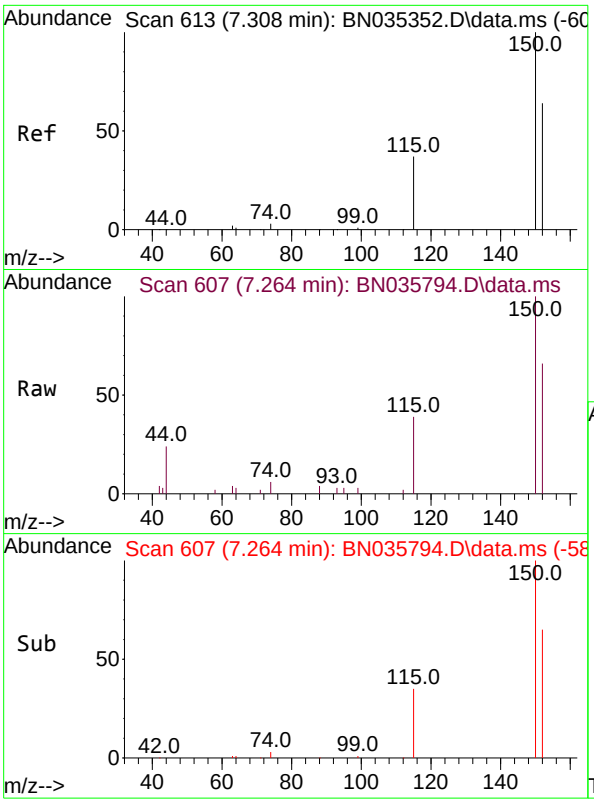
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



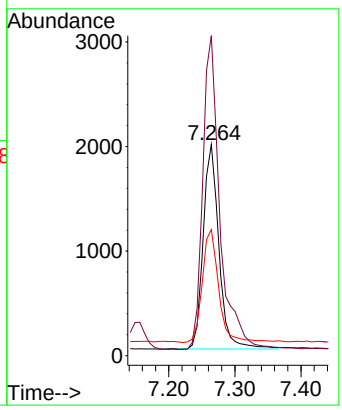


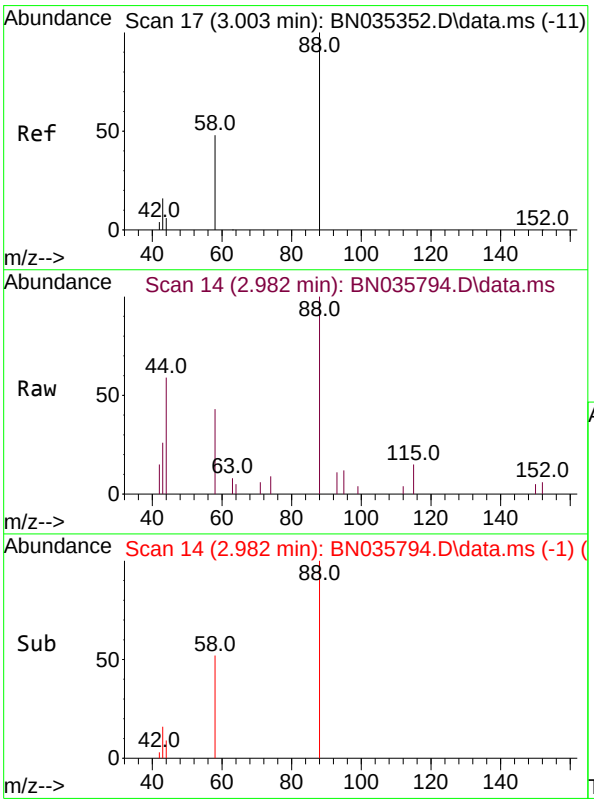
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3234

Ion	Ratio	Lower	Upper
152	100		
150	151.5	124.0	186.0
115	59.7	49.6	74.4

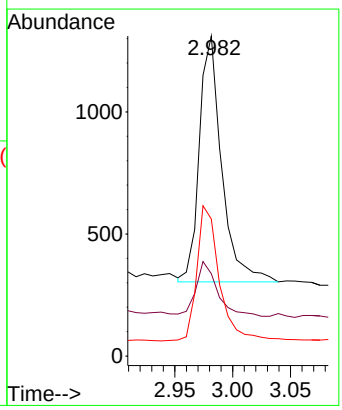


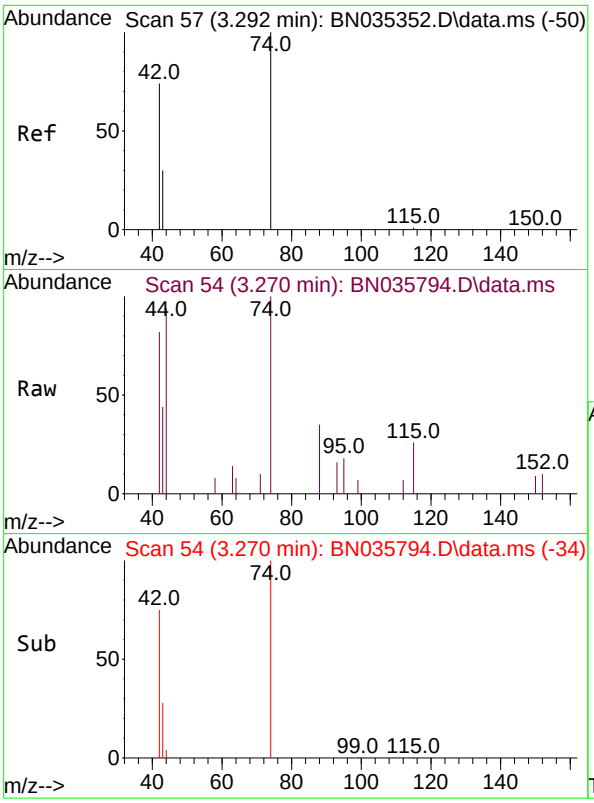


#2
1,4-Dioxane
Concen: 0.438 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 88 Resp: 1355

Ion	Ratio	Lower	Upper
88	100		
43	21.3	17.2	25.8
58	55.4	44.5	66.7



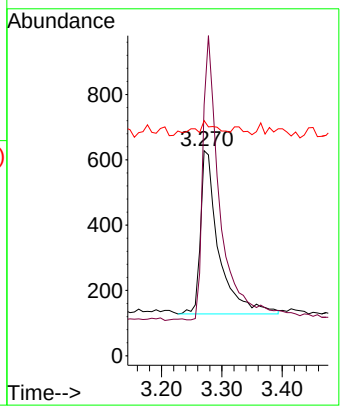


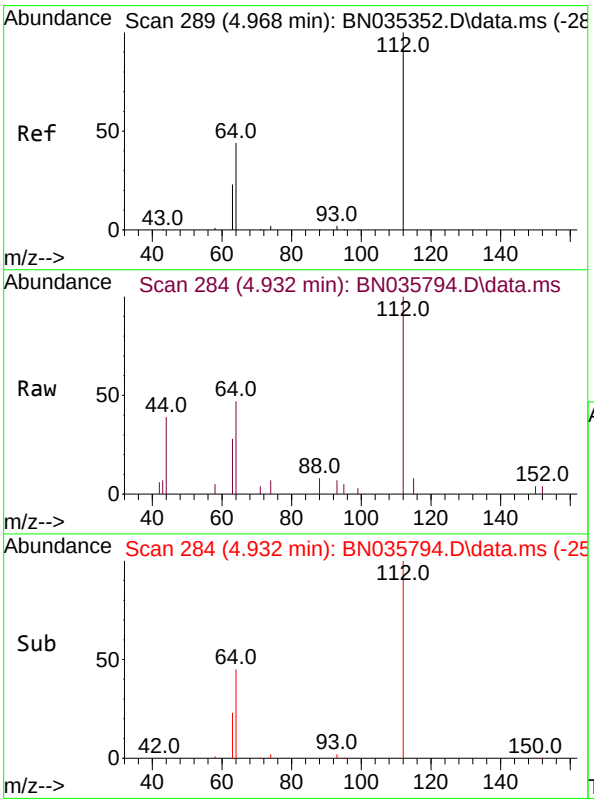
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1052

Ion	Ratio	Lower	Upper
42	100		
74	162.6	124.9	187.3
44	10.1	2.2	3.4#

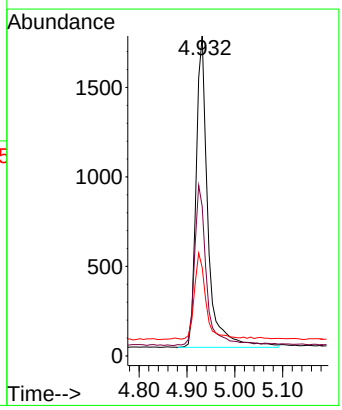


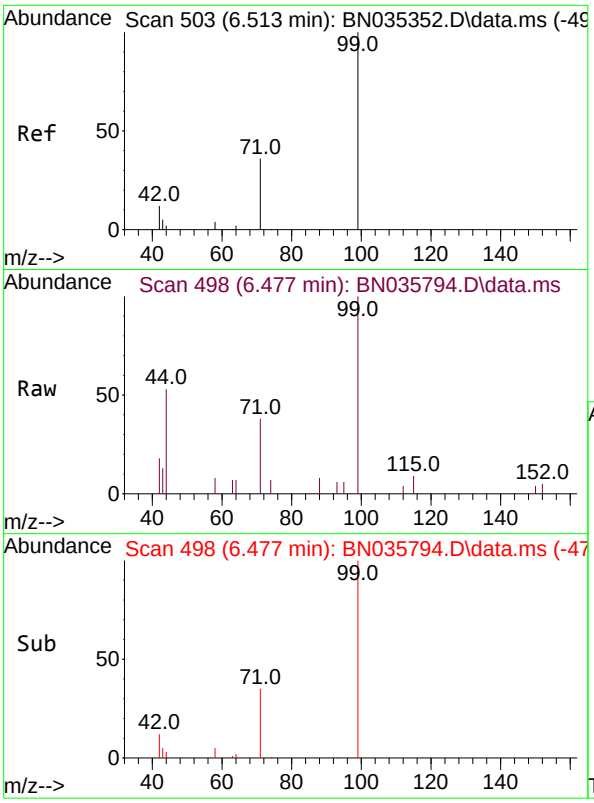


#4
2-Fluorophenol
Concen: 0.369 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:112 Resp: 2987

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	26.4	21.0	31.6



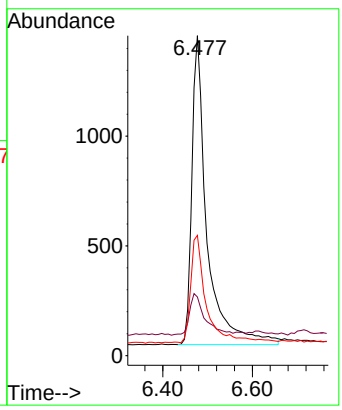


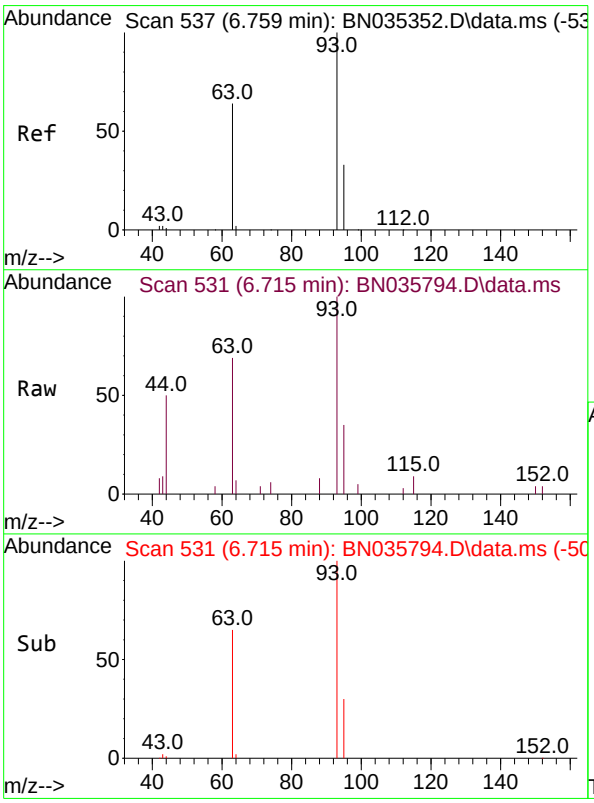
#5
Phenol-d6
Concen: 0.338 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3287

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	35.3	29.3	43.9

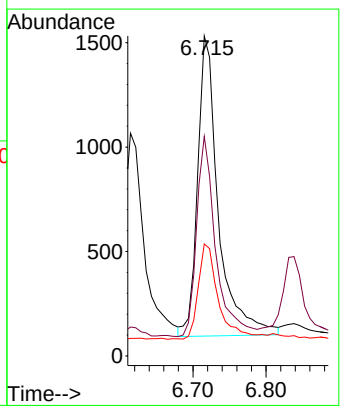


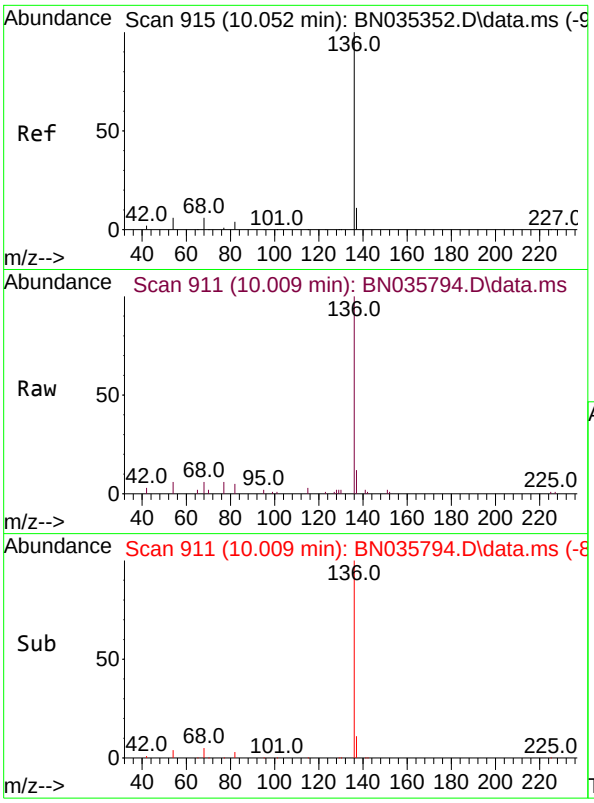


#6
bis(2-Chloroethyl)ether
Concen: 0.348 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 93 Resp: 2845

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	30.1	25.7	38.5



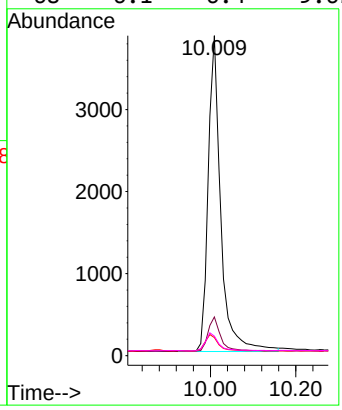


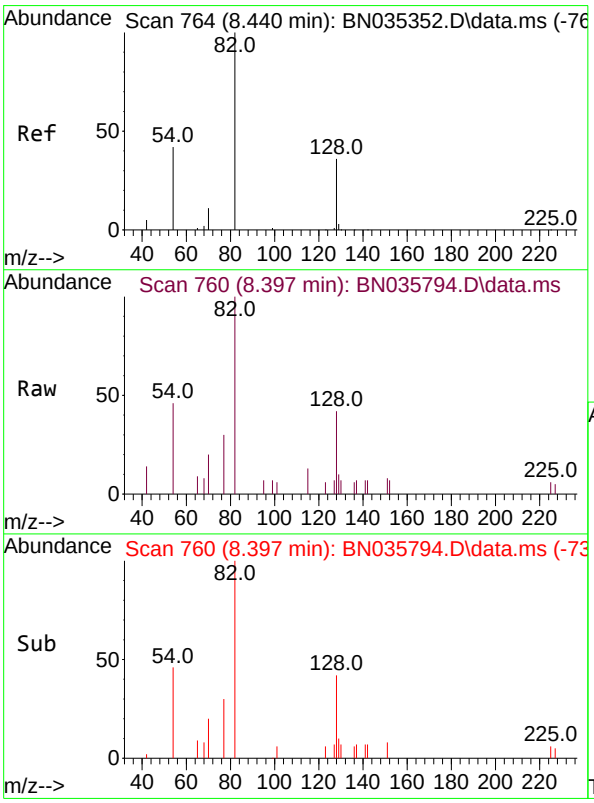
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 7877

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	5.7	6.1	9.1#
68	6.1	6.4	9.6#

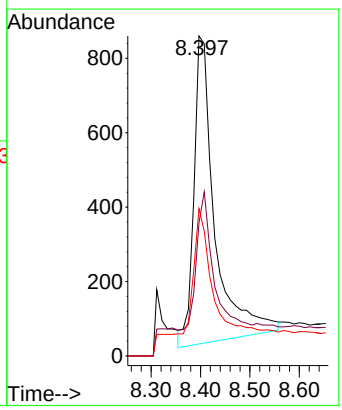


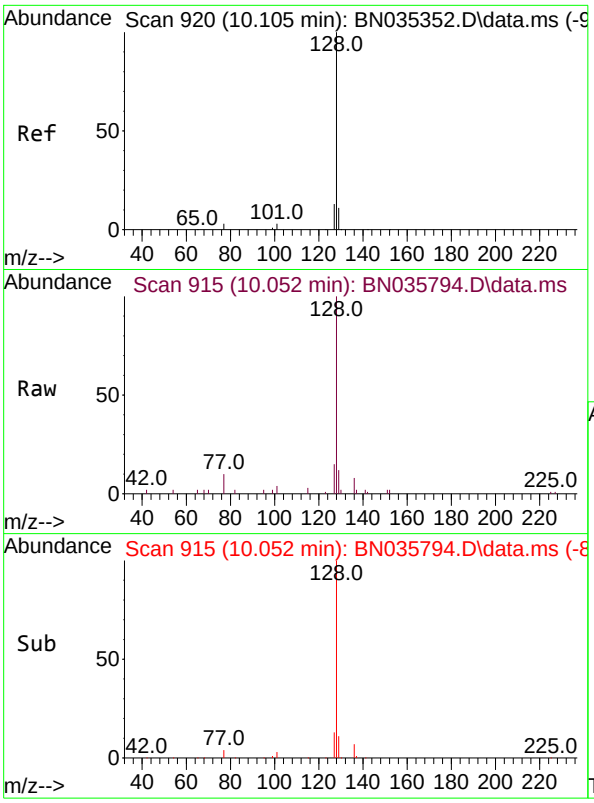


#8
Nitrobenzene-d5
Concen: 0.508 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 82 Resp: 2444

Ion	Ratio	Lower	Upper
82	100		
128	41.6	33.4	50.0
54	46.0	36.7	55.1



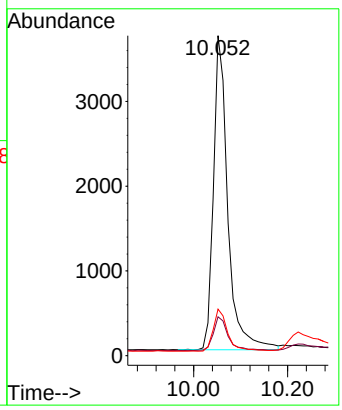


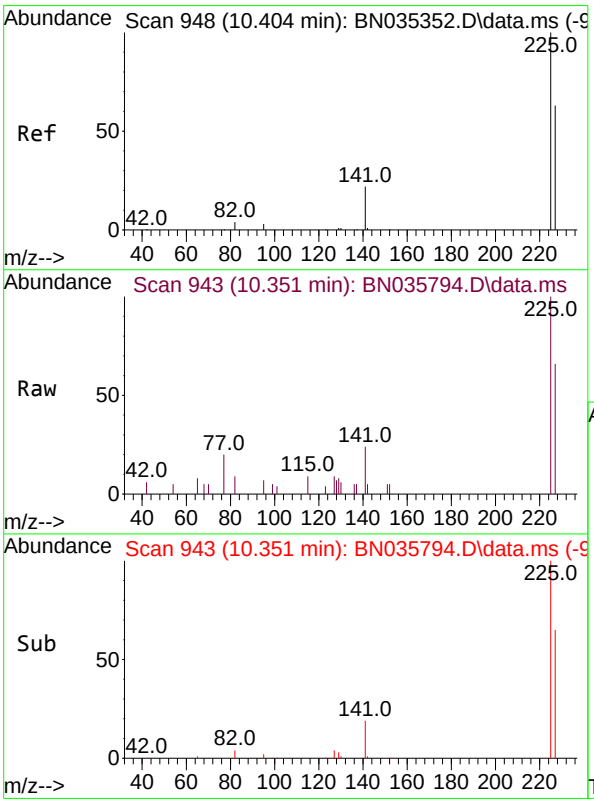
#9
Naphthalene
Concen: 0.379 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 7865

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.4	17.2

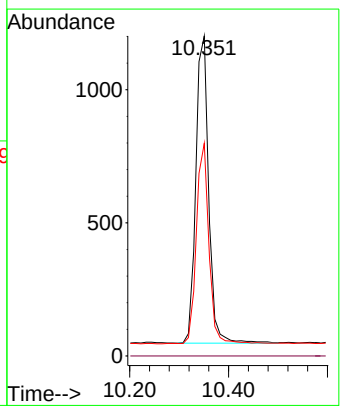


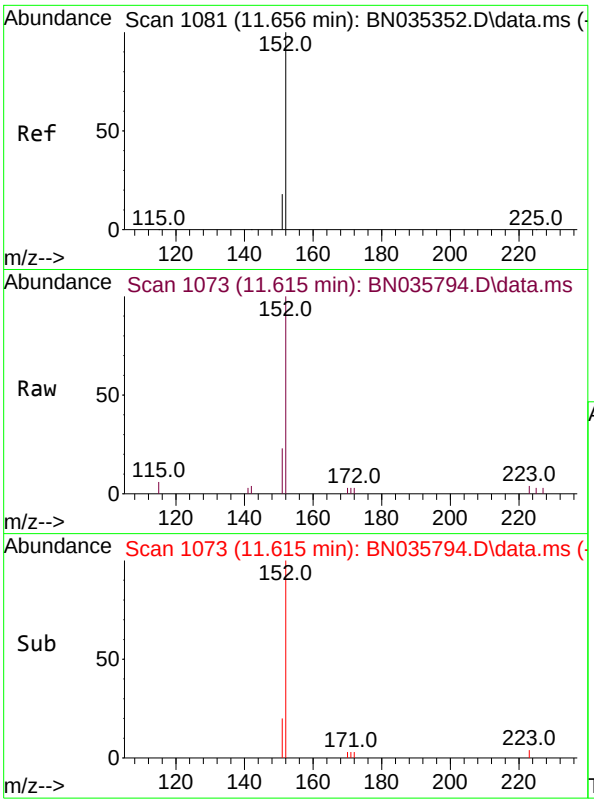


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:225 Resp: 2082

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9



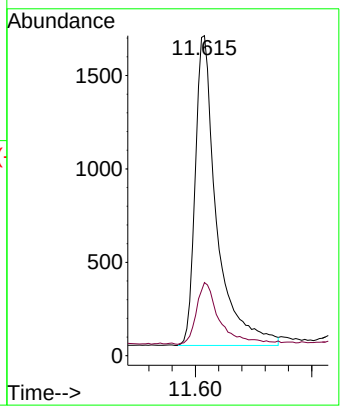


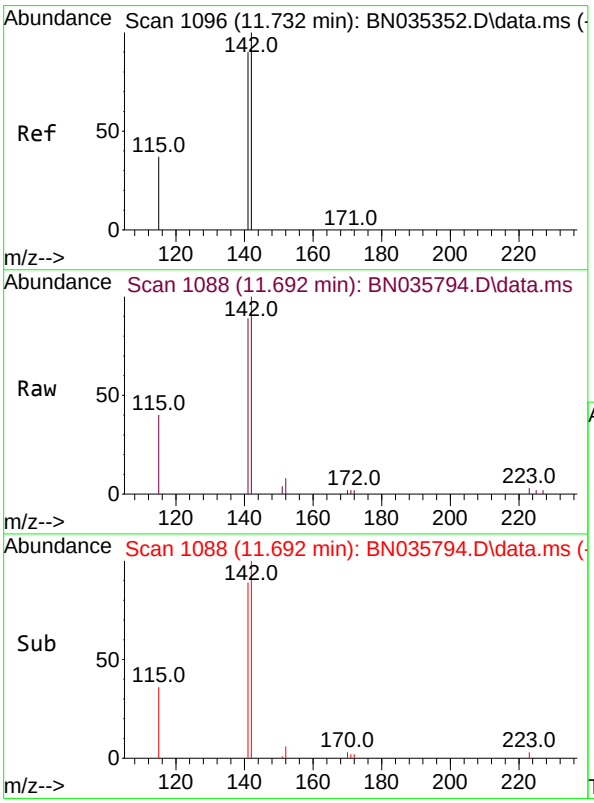
#11
2-Methylnaphthalene-d10
Concen: 0.345 ng
RT: 11.615 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4254

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

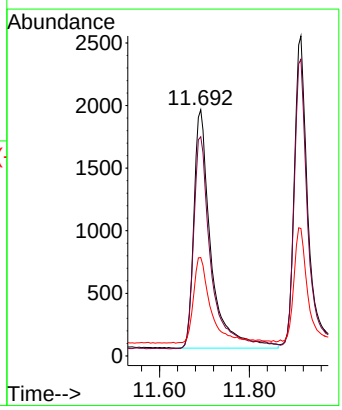


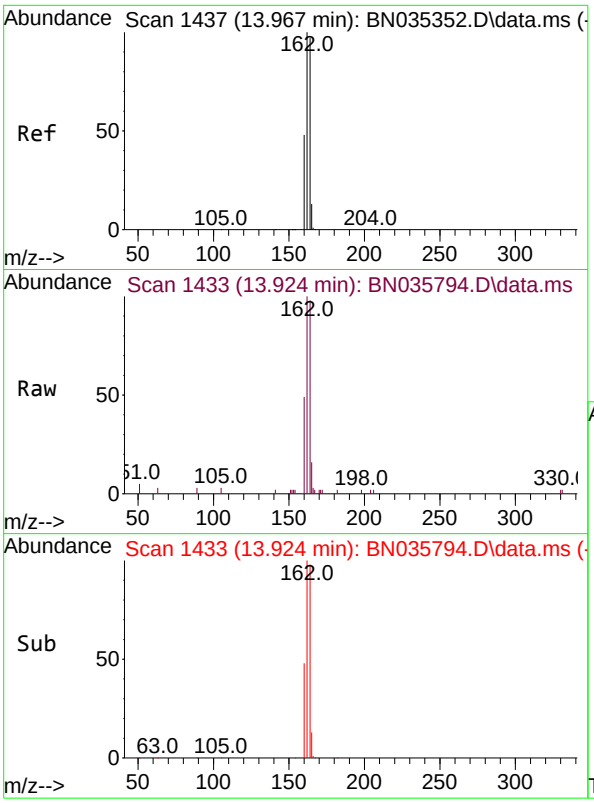


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:142 Resp: 5023

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	40.0	31.4	47.0



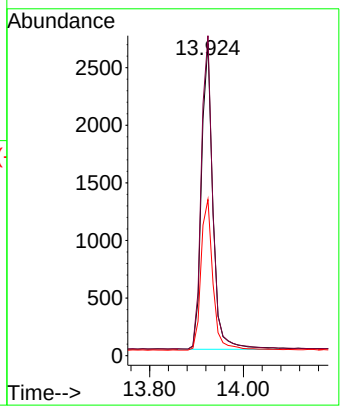


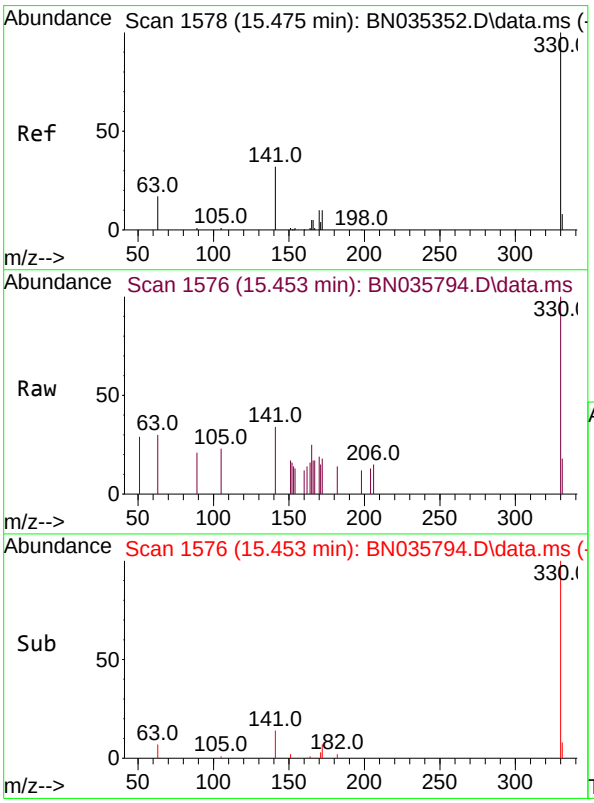
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4482

Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.2	123.2
160	50.0	40.1	60.1

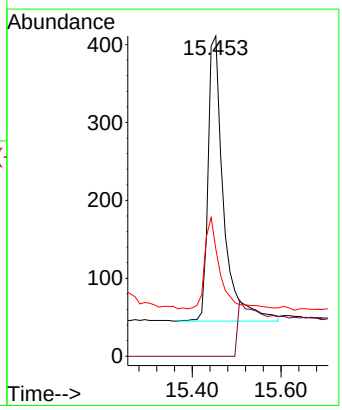


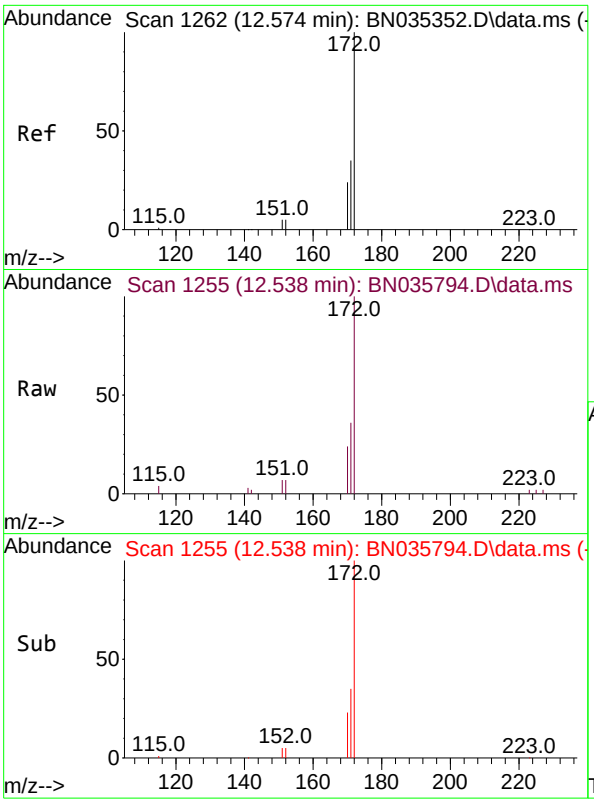


#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:330 Resp: 932

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.8	26.6	40.0



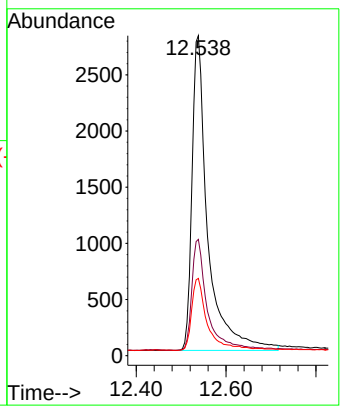


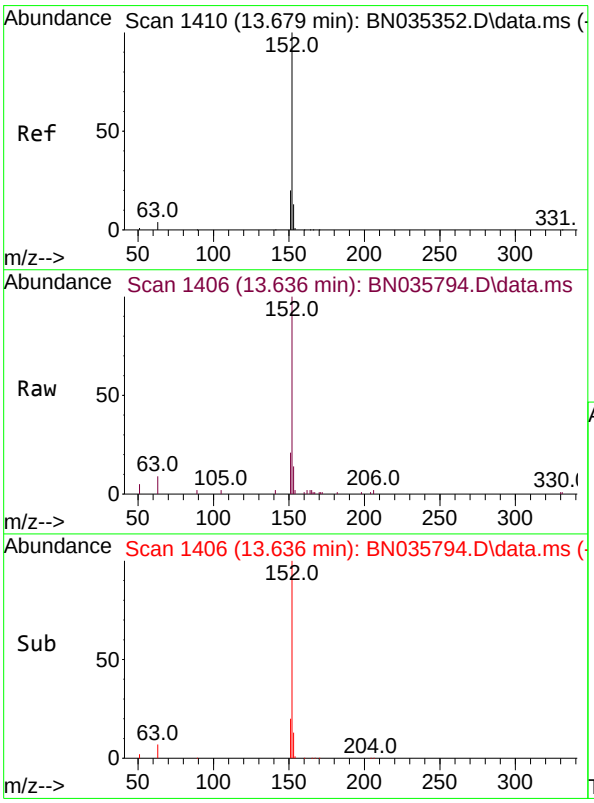
#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 6854

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.1	19.8	29.8

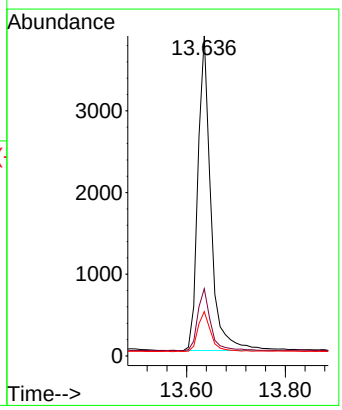


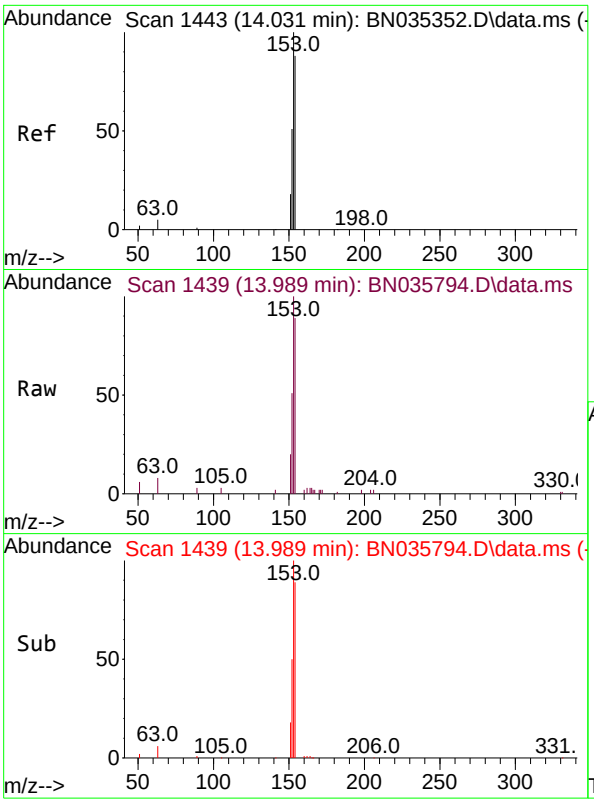


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:152 Resp: 6992

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	13.2	10.4	15.6



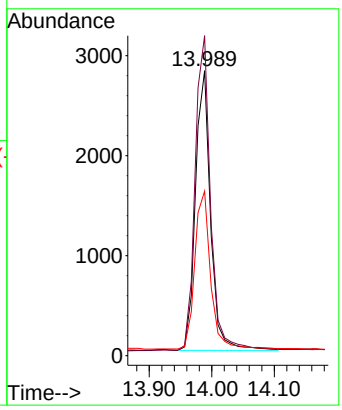


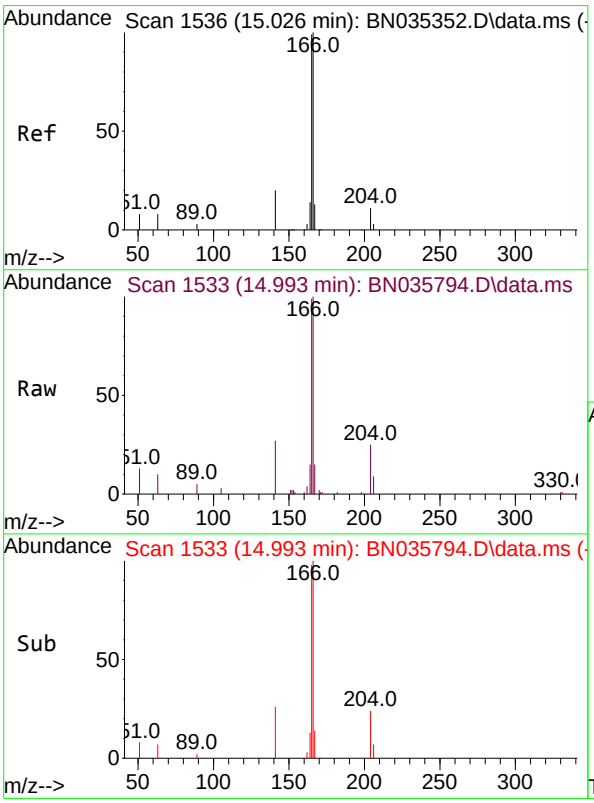
#17
Acenaphthene
Concen: 0.377 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4714

Ion	Ratio	Lower	Upper
154	100		
153	115.7	92.6	139.0
152	59.2	49.0	73.6

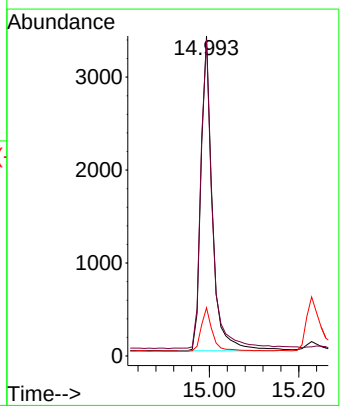


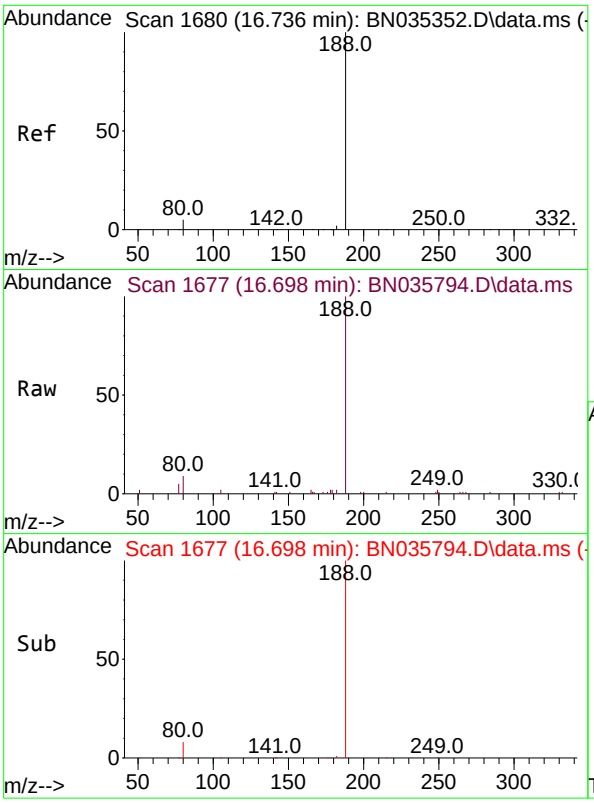


#18
Fluorene
Concen: 0.336 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:166 Resp: 6004

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.5	10.8	16.2



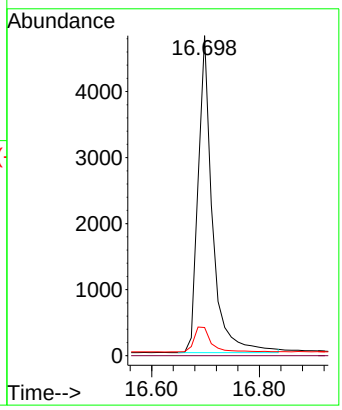


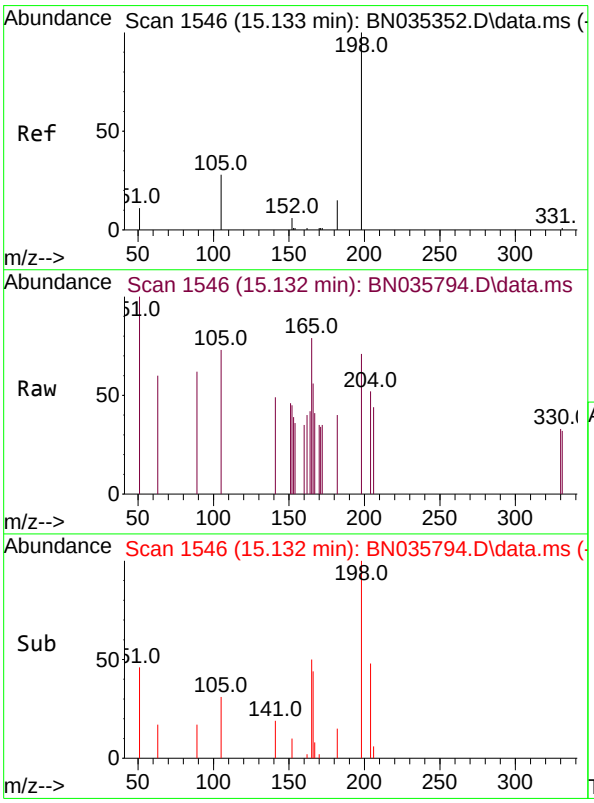
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 8845

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#

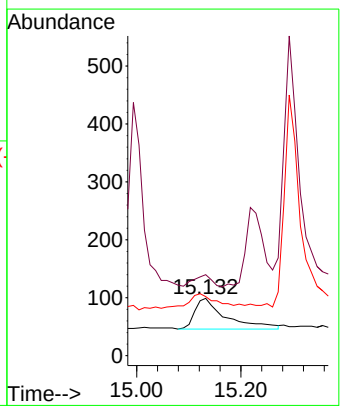


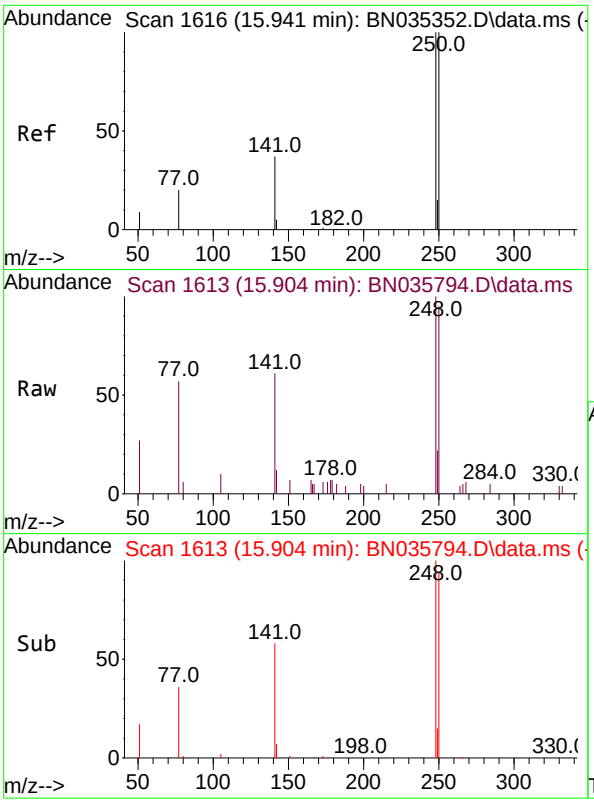


#20
4,6-Dinitro-2-methylphenol
Concen: 0.254 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:198 Resp: 221

Ion	Ratio	Lower	Upper
198	100		
51	141.4	46.5	69.7#
105	103.0	45.3	67.9#



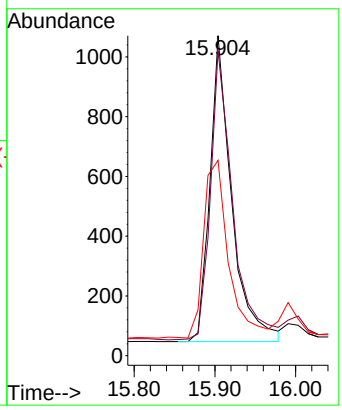


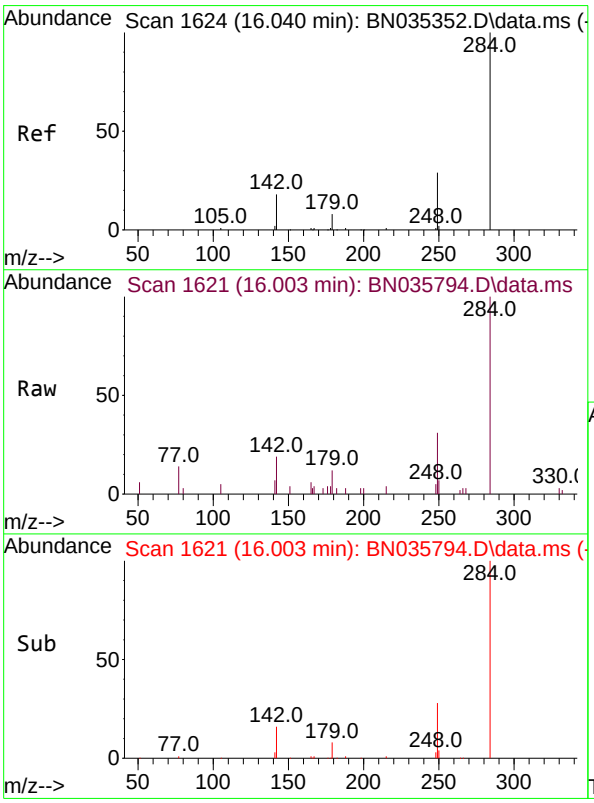
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1918

Ion	Ratio	Lower	Upper
248	100		
250	95.3	80.6	120.8
141	61.1	31.5	47.3#

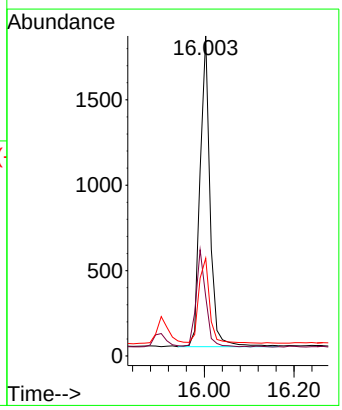


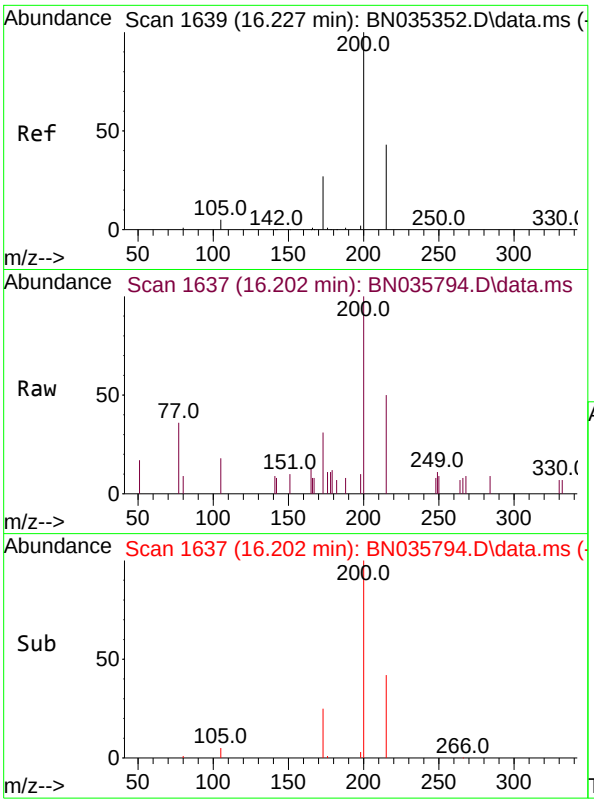


#22
Hexachlorobenzene
Concen: 0.462 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:284 Resp: 2804

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	30.0	24.6	36.8



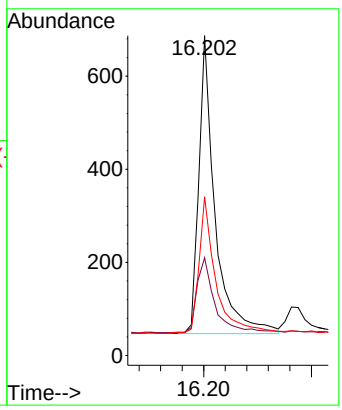


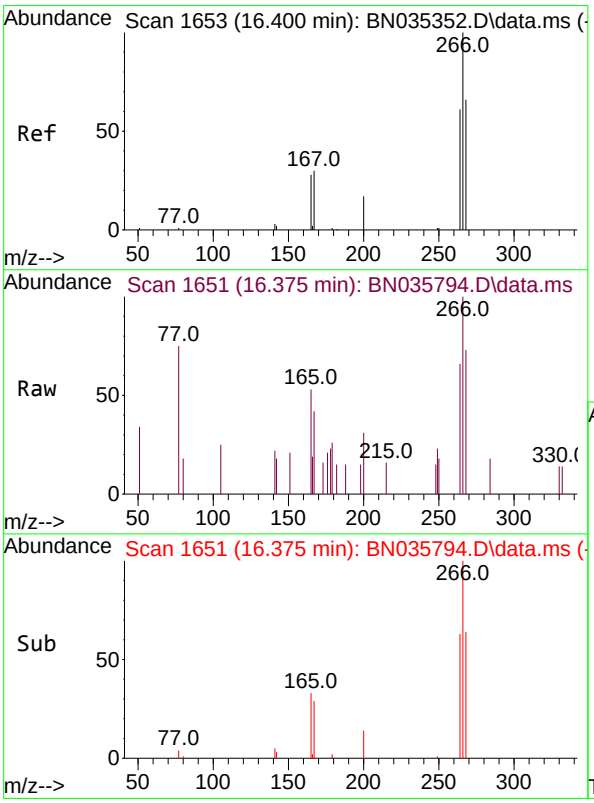
#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1338

Ion	Ratio	Lower	Upper
200	100		
173	30.6	24.1	36.1
215	49.6	36.9	55.3

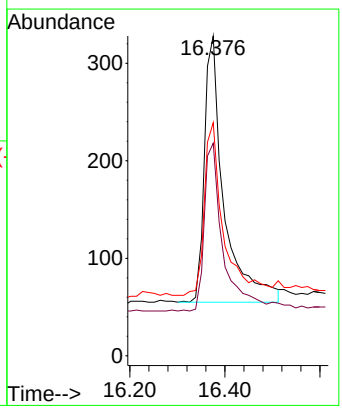


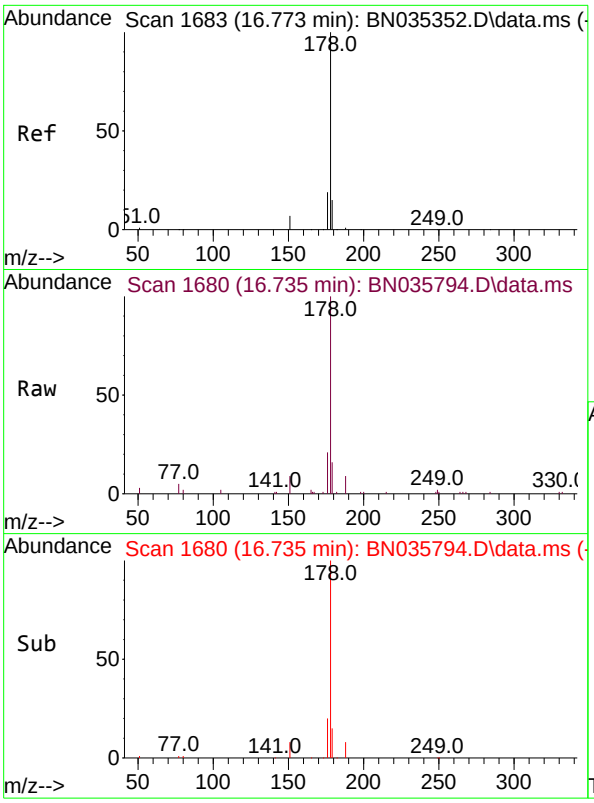


#24
Pentachlorophenol
Concen: 0.296 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:266 Resp: 783

Ion	Ratio	Lower	Upper
266	100		
264	62.1	42.3	63.5
268	63.6	43.3	64.9



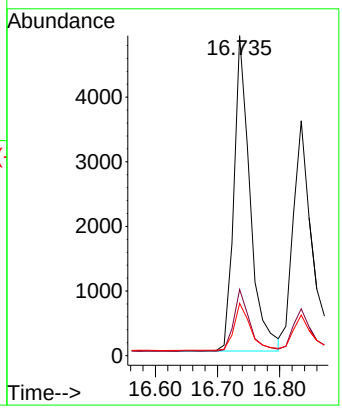


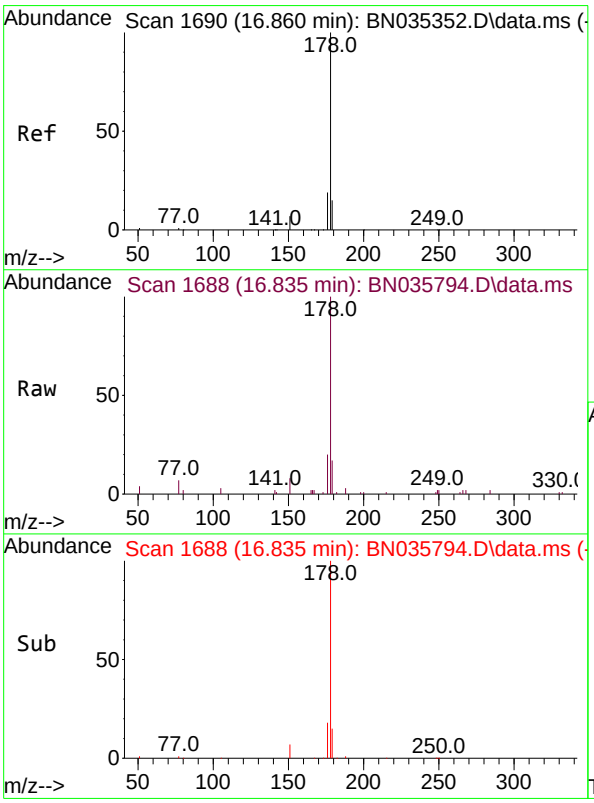
#25
Phenanthrene
Concen: 0.363 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 8831

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

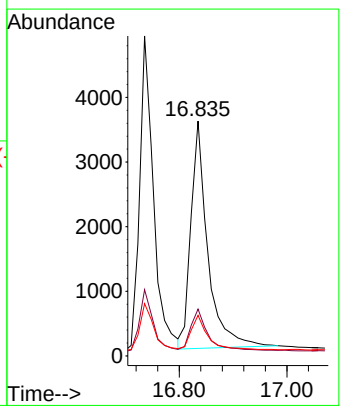


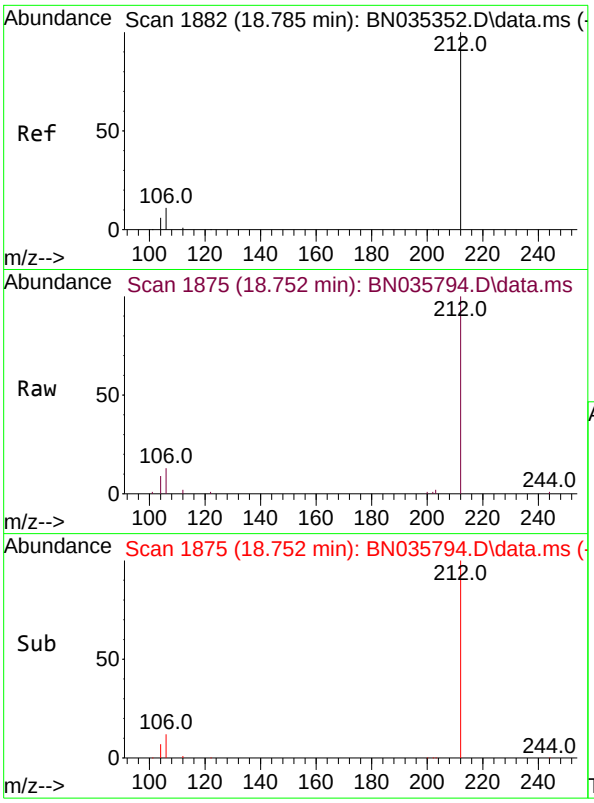


#26
Anthracene
Concen: 0.349 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 7665

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8



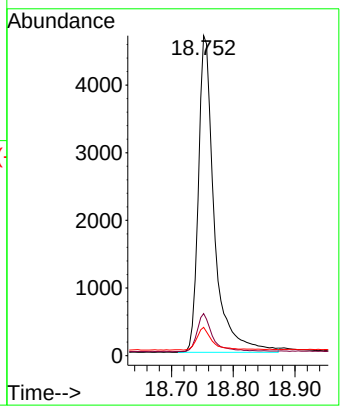


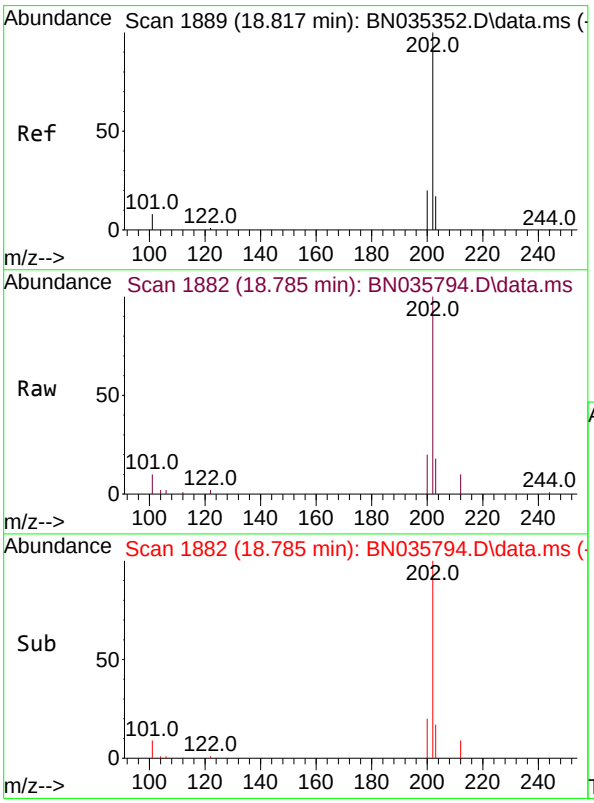
#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 8405

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.7	5.3	7.9

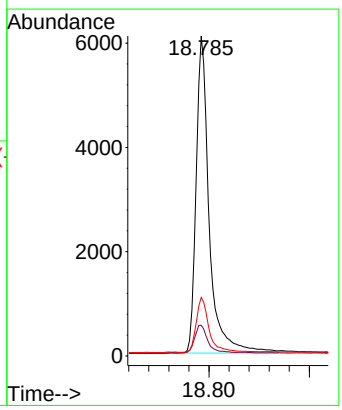


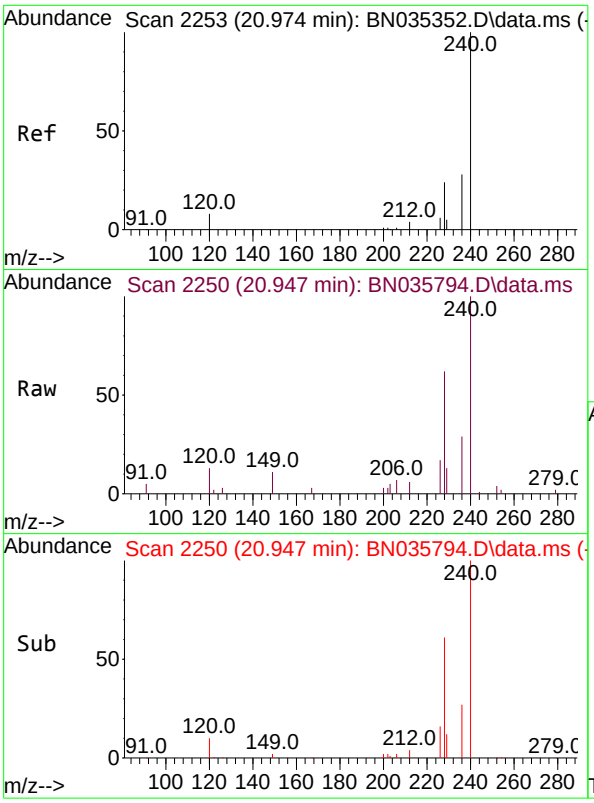


#28
Fluoranthene
Concen: 0.336 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11004

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.0	13.7	20.5



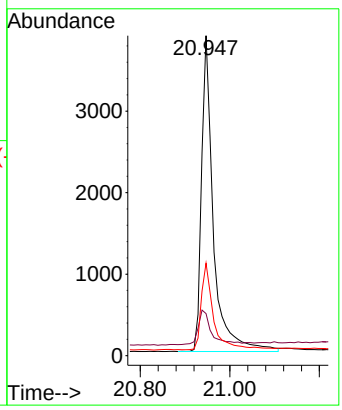


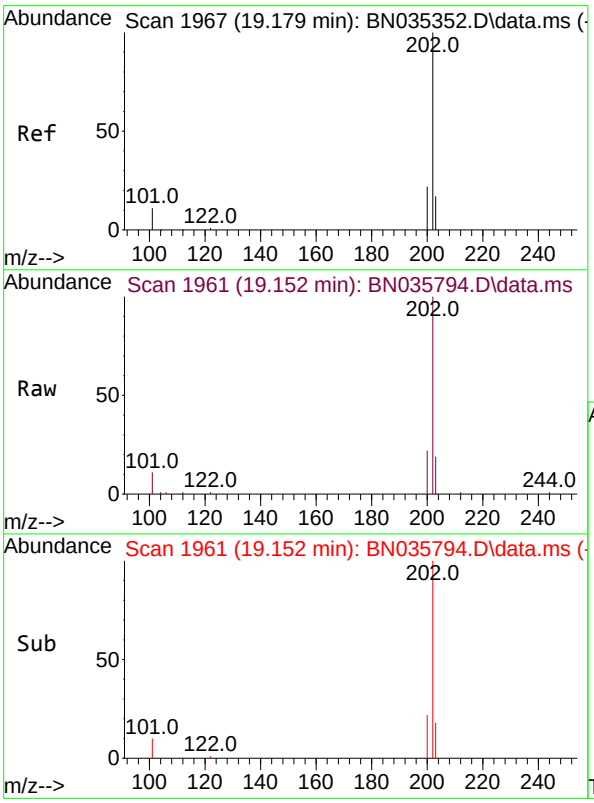
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 7163

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	28.9	22.9	34.3

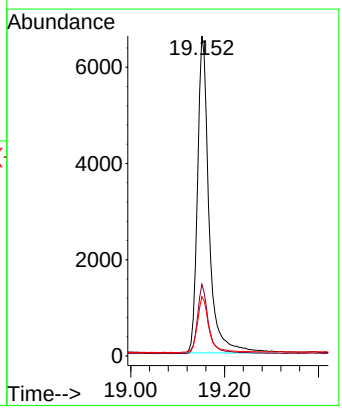


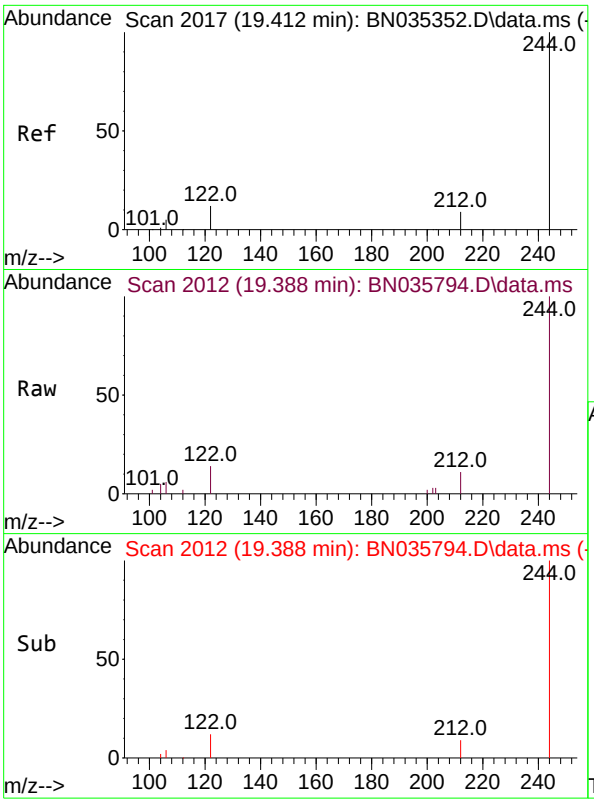


#30
Pyrene
Concen: 0.425 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11228

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.7	14.3	21.5



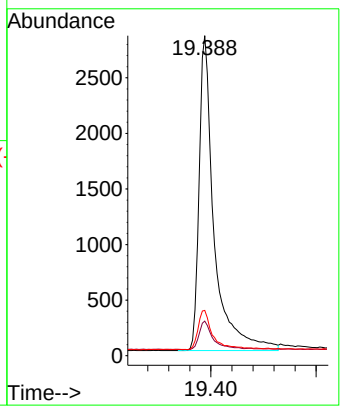


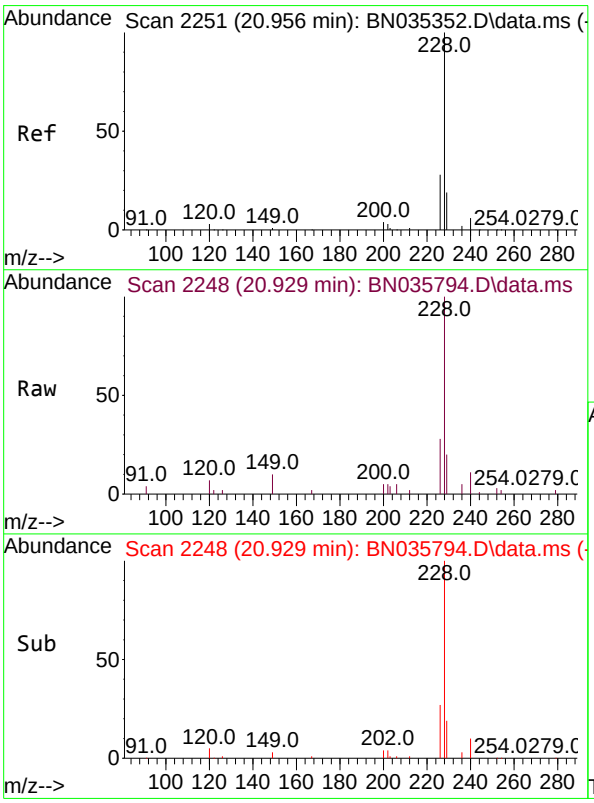
#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 5620

Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	14.2	10.3	15.5

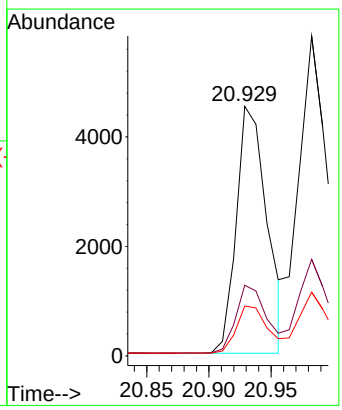


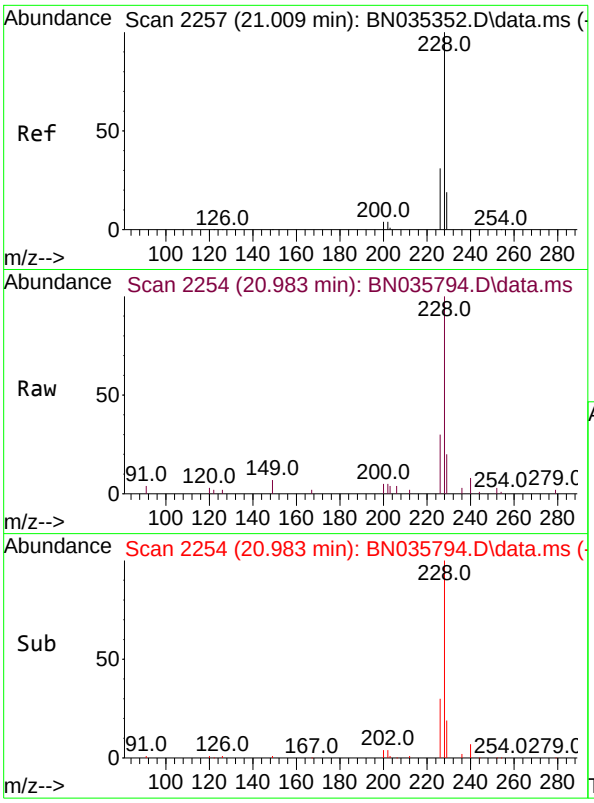


#32
Benzo(a)anthracene
Concen: 0.308 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:228 Resp: 7716

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.0	15.8	23.8



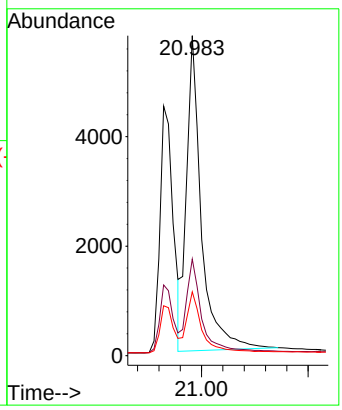


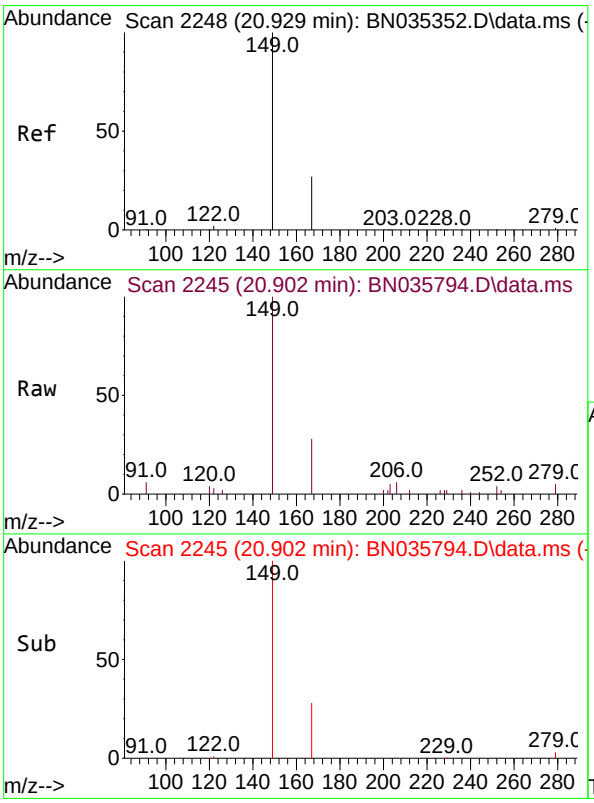
#33
Chrysene
Concen: 0.431 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 11129

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.9	15.9	23.9

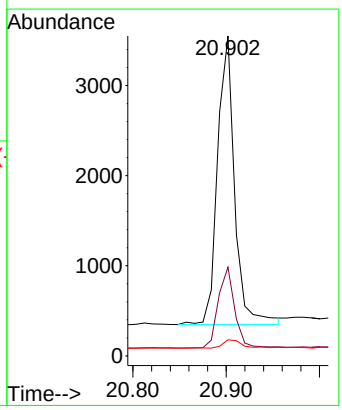


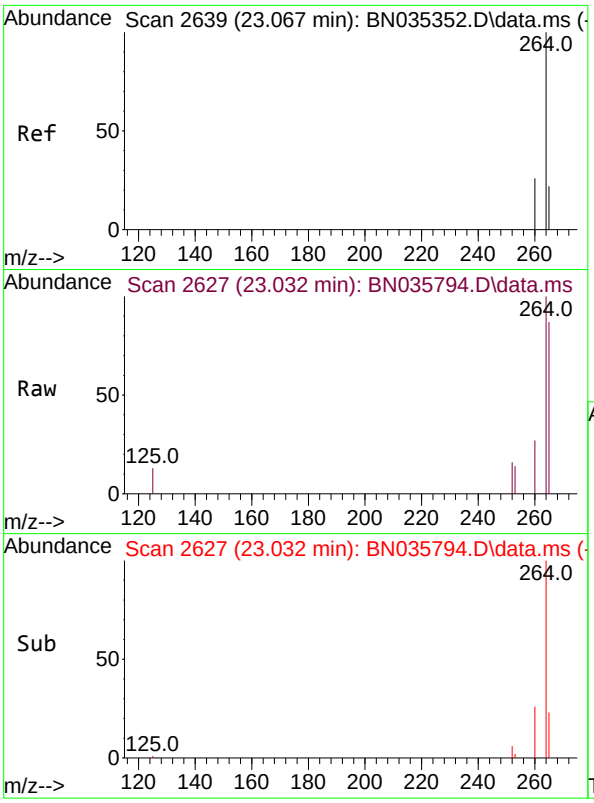


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.411 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:149 Resp: 4068

Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.2	33.4
279	3.6	2.7	4.1



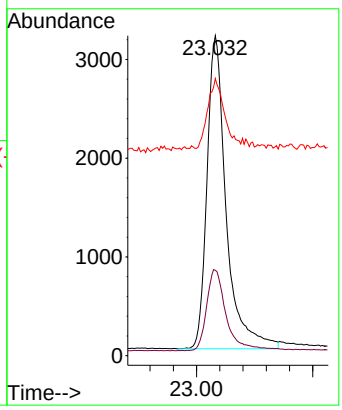


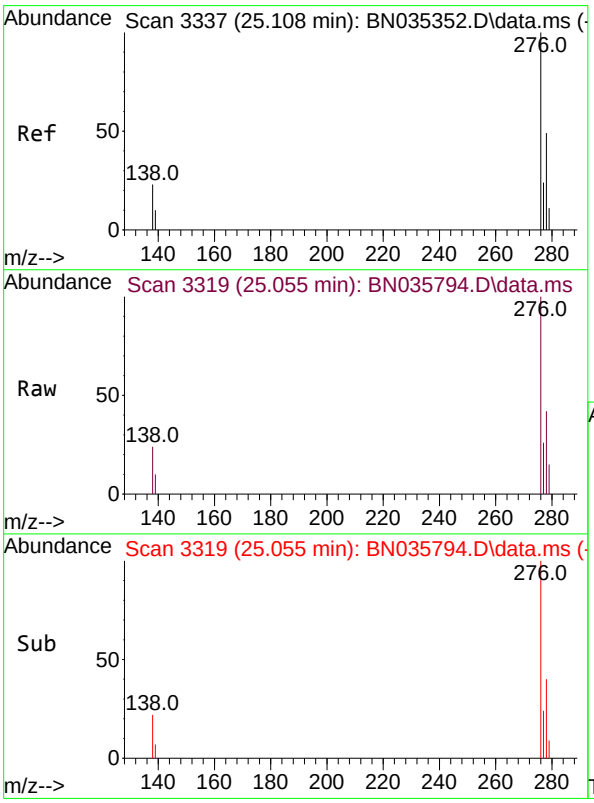
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 7277

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.2
265	86.6	40.2	60.4#

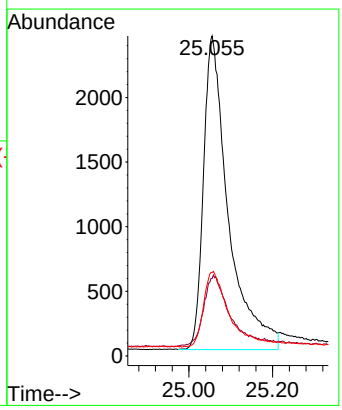


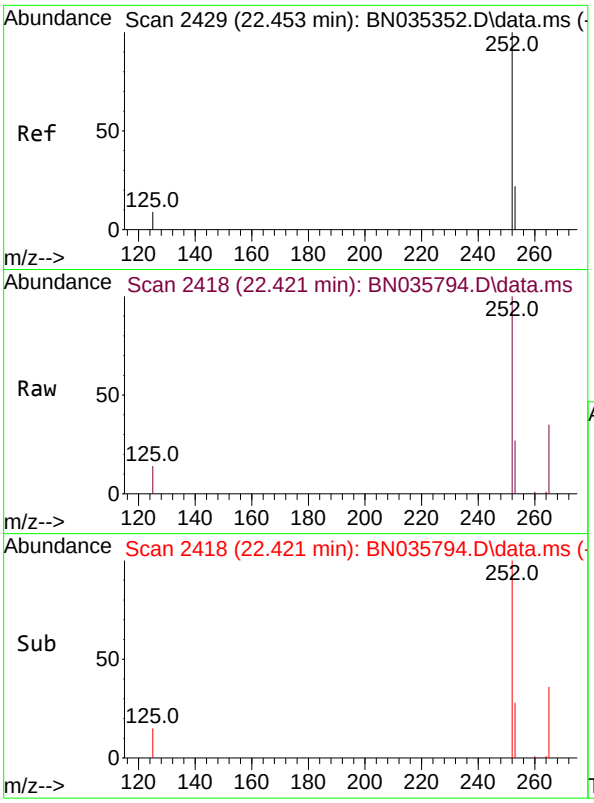


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.055 min Scan# 3319
Delta R.T. -0.012 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:276 Resp: 10012

Ion	Ratio	Lower	Upper
276	100		
138	22.3	19.4	29.0
277	24.6	19.8	29.6



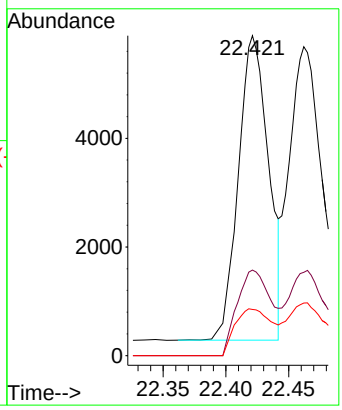


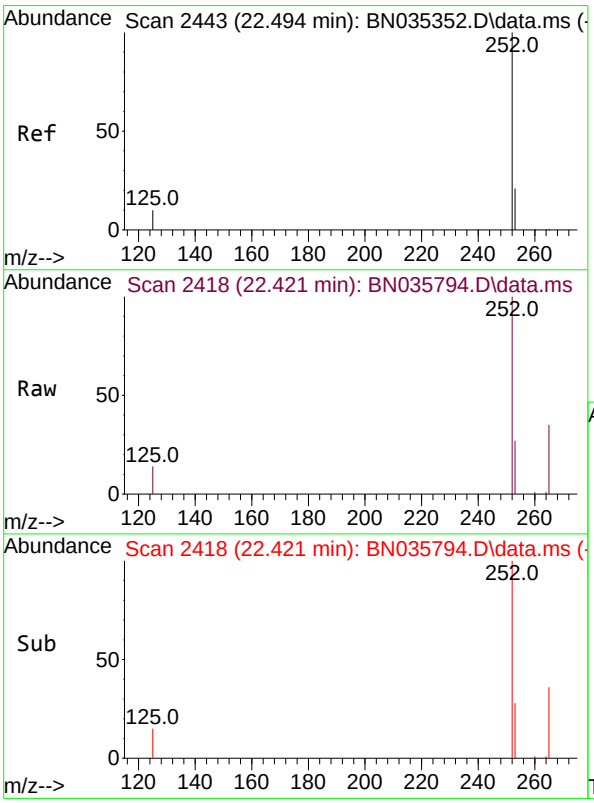
#37
Benzo(b)fluoranthene
Concen: 0.533 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 14187

Ion	Ratio	Lower	Upper
252	100		
253	26.7	19.6	29.4
125	14.5	9.6	14.4#

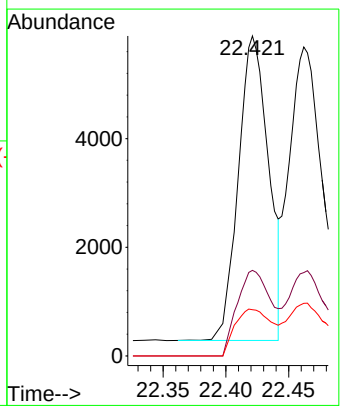


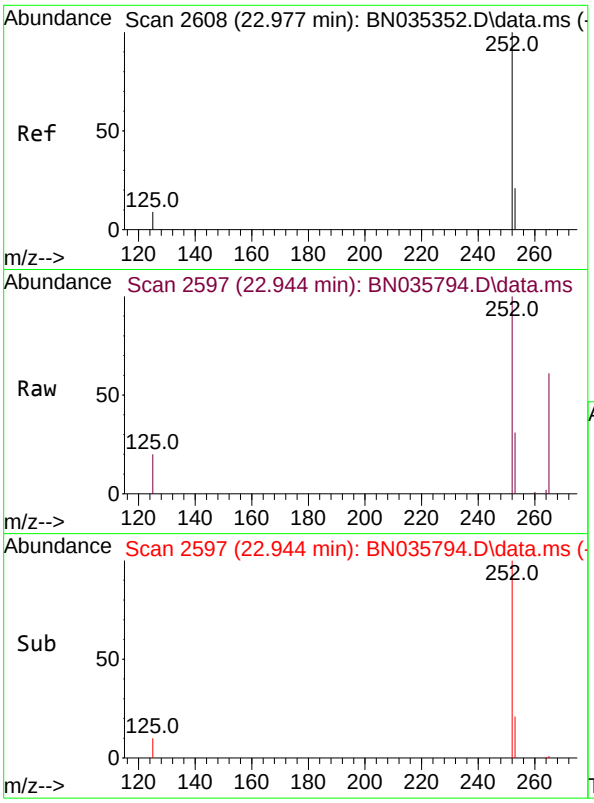


#38
Benzo(k)fluoranthene
Concen: 0.541 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.050 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:252 Resp: 14187

Ion	Ratio	Lower	Upper
252	100		
253	26.7	19.5	29.3
125	14.5	10.2	15.4



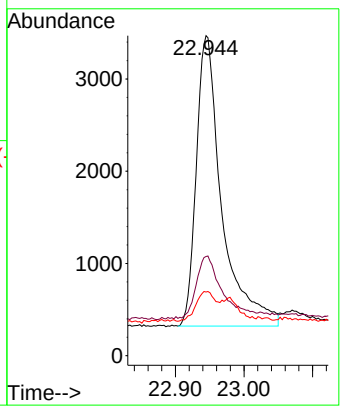


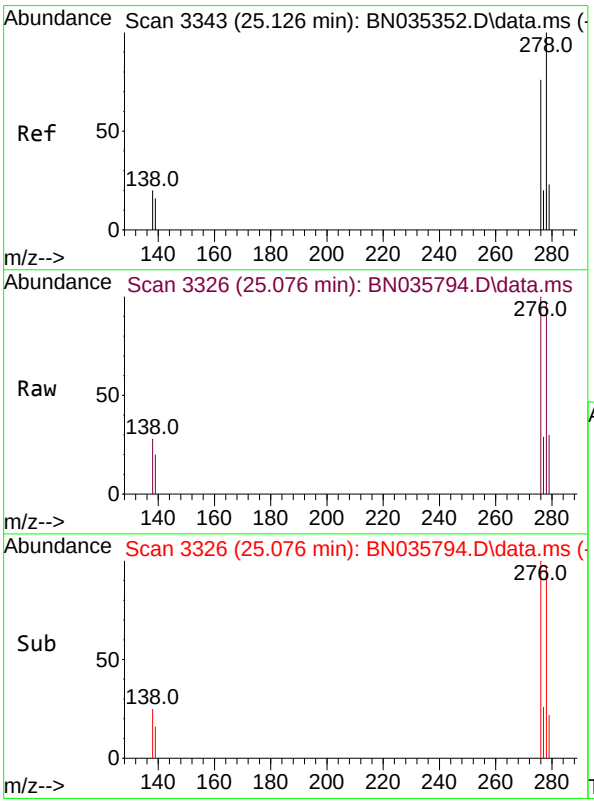
#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 8141

Ion	Ratio	Lower	Upper
252	100		
253	31.0	20.2	30.4#
125	19.9	10.9	16.3#

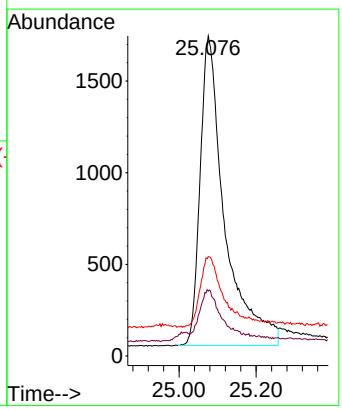


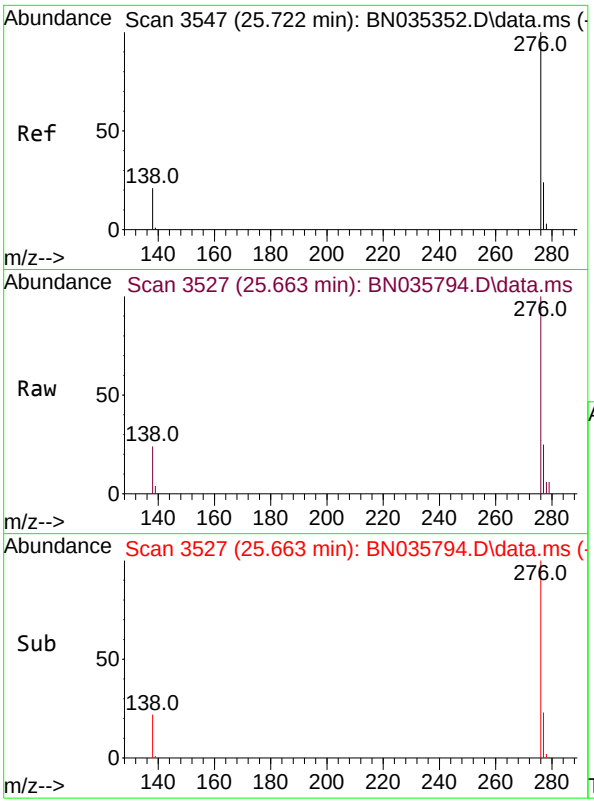


#40
Dibenzo(a,h)anthracene
Concen: 0.333 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:278 Resp: 7465

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.0	20.5	30.7#



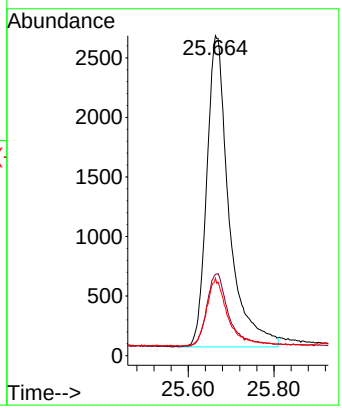


#41
Benzo(g,h,i)perylene
Concen: 0.401 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 9418

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	24.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035795.D
Acq On : 23 Dec 2024 22:52
Operator : RC/JU
Sample : PB165667BL
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Quant Time: Dec 24 00:13:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4926	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11442	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	7253	0.400	ng	-0.01
19) Phenanthrene-d10	16.711	188	12605	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	9944	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9785	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3783	0.307	ng	0.00
5) Phenol-d6	6.484	99	3587	0.242	ng	0.00
8) Nitrobenzene-d5	8.408	82	3704	0.530	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	6566	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	426	0.083	ng	0.02
15) 2-Fluorobiphenyl	12.549	172	9720	0.355	ng	0.00
27) Fluoranthene-d10	18.761	212	13649	0.382	ng	0.00
31) Terphenyl-d14	19.388	244	11020	0.562	ng	0.00
Target Compounds						Qvalue

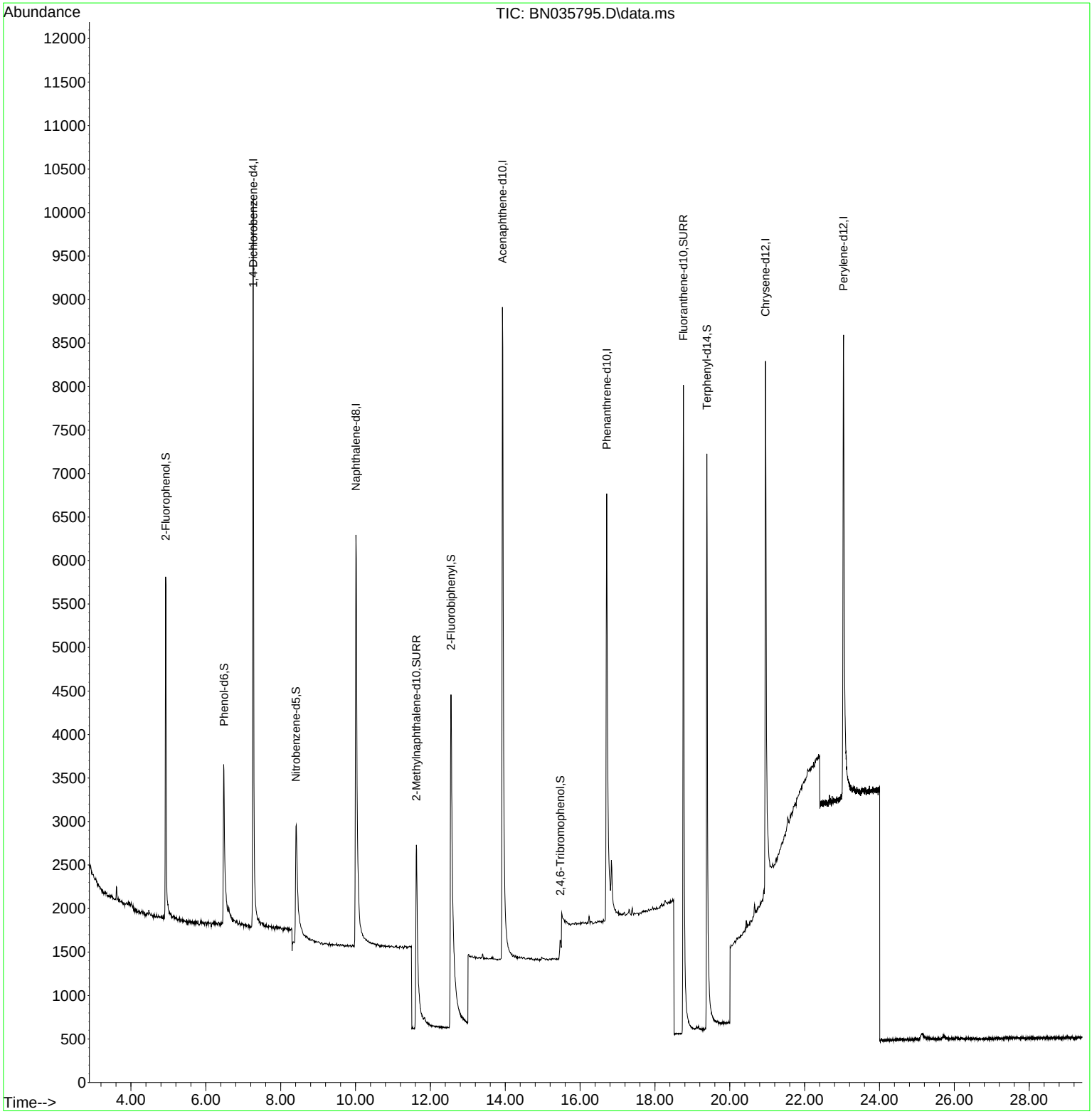
(#) = qualifier out of range (m) = manual integration (+) = signals summed

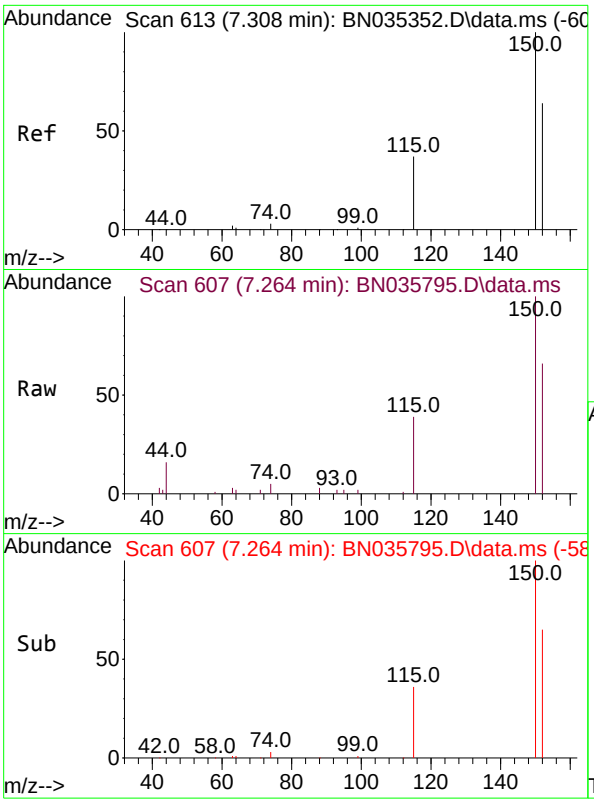
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035795.D
Acq On : 23 Dec 2024 22:52
Operator : RC/JU
Sample : PB165667BL
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Quant Time: Dec 24 00:13:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



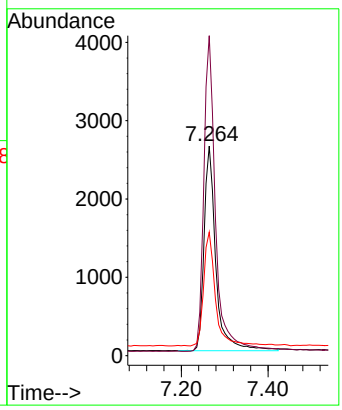


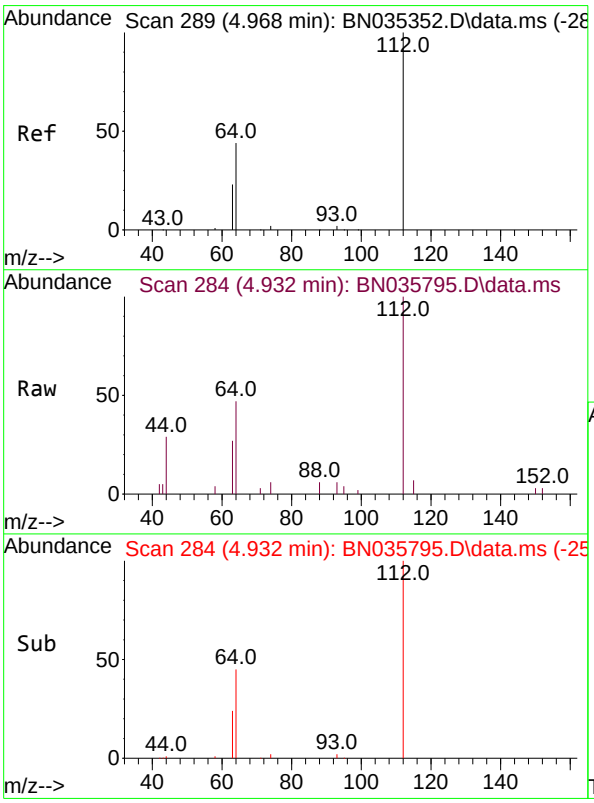
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion:152 Resp: 4926

Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.0	186.0
115	58.9	49.6	74.4

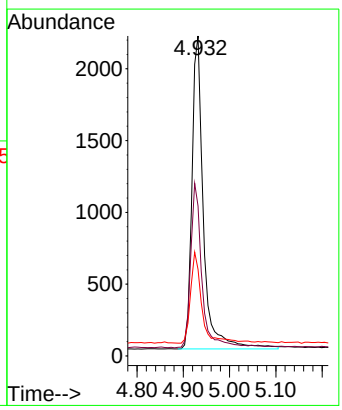


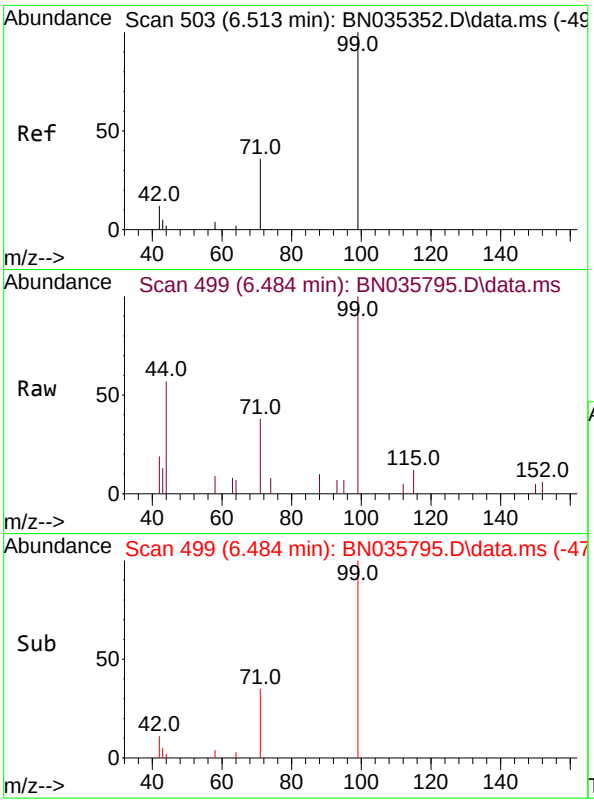


#4
2-Fluorophenol
Concen: 0.307 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:112 Resp: 3783

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	28.0	21.0	31.6



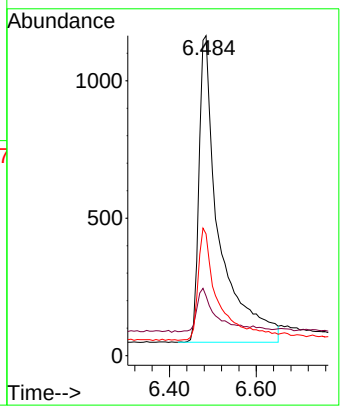


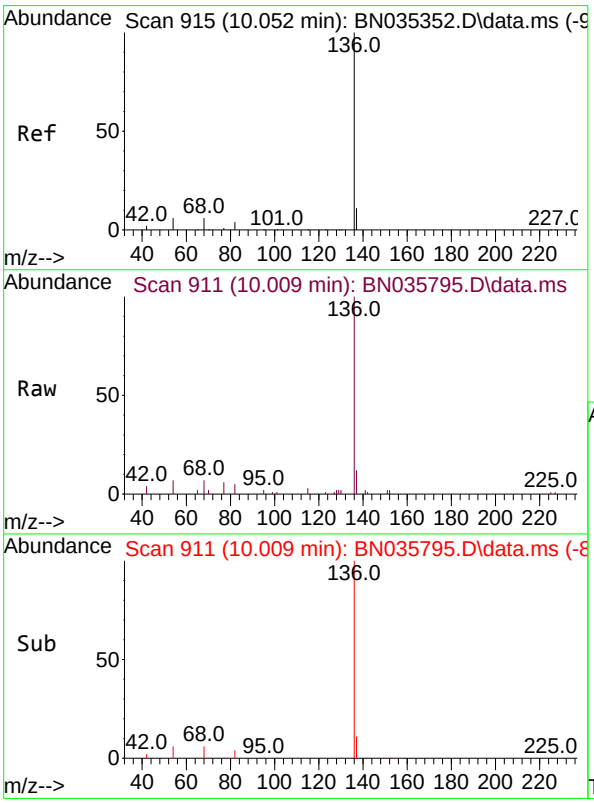
#5
Phenol-d6
Concen: 0.242 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion: 99 Resp: 3587

Ion	Ratio	Lower	Upper
99	100		
42	13.1	11.4	17.2
71	37.0	29.3	43.9

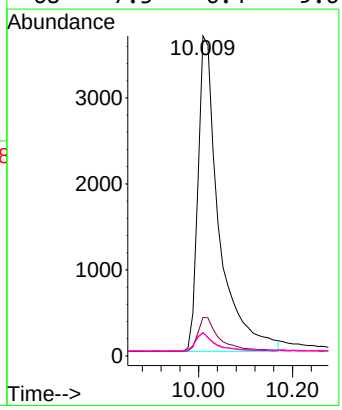


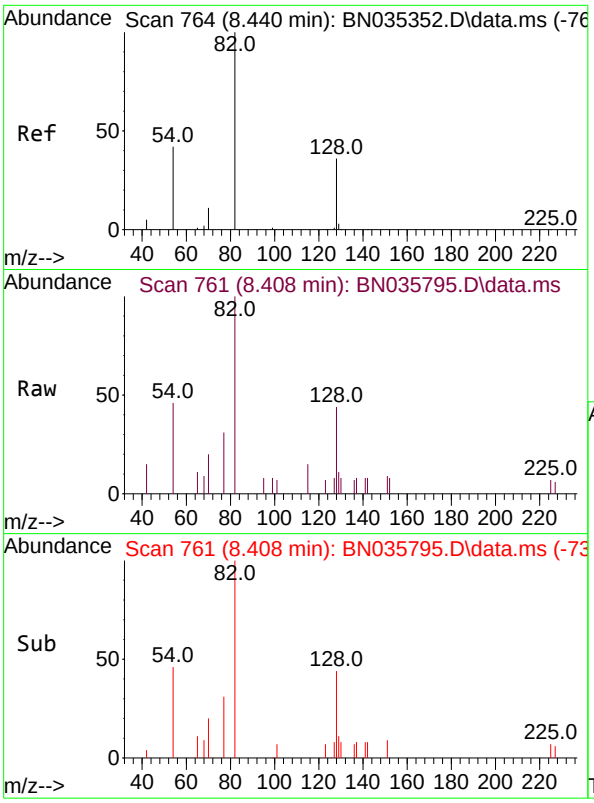


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:136 Resp: 11442

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	7.3	6.1	9.1
68	7.3	6.4	9.6



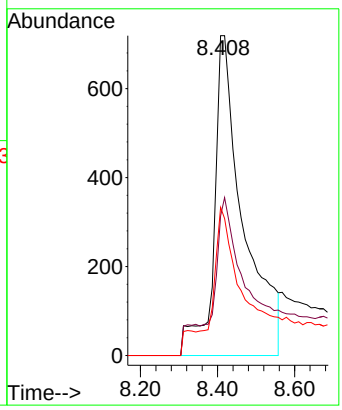


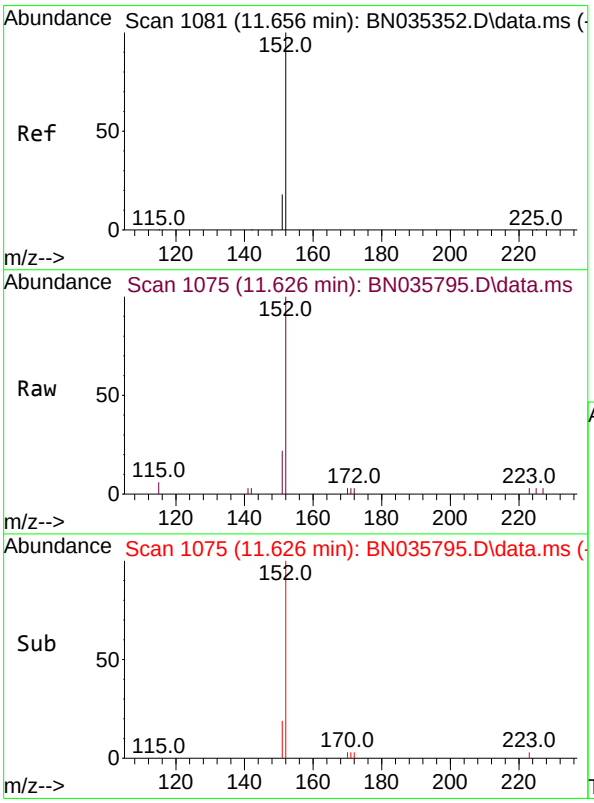
#8
Nitrobenzene-d5
Concen: 0.530 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion: 82 Resp: 3704

Ion	Ratio	Lower	Upper
82	100		
128	43.7	33.4	50.0
54	46.3	36.7	55.1

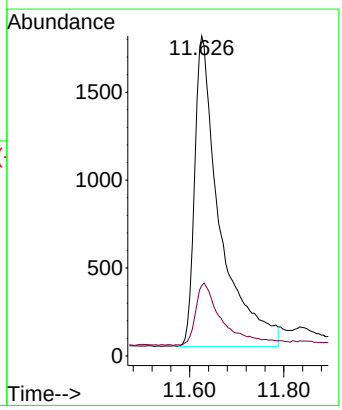


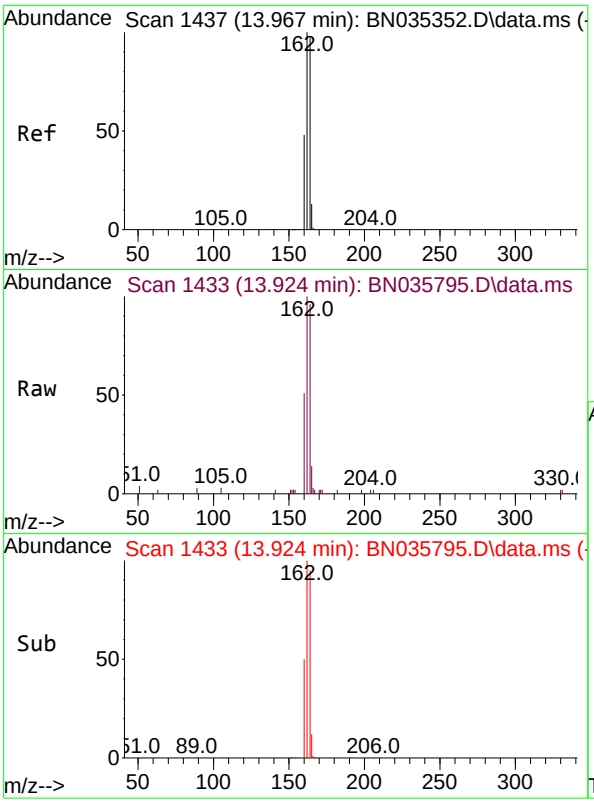


#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.626 min Scan# 1075
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:152 Resp: 6566

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.6	25.0



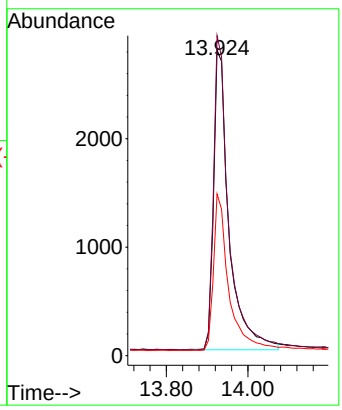


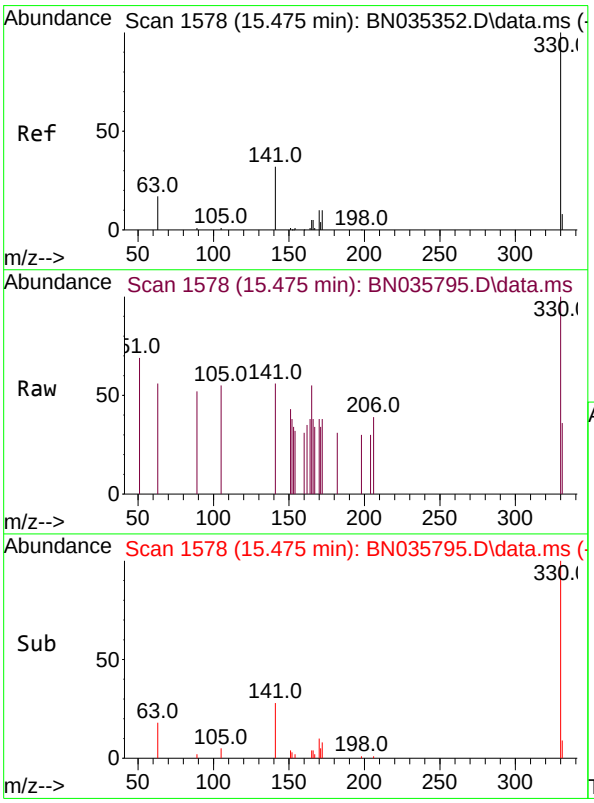
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion:164 Resp: 7253

Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.2
160	52.9	40.1	60.1

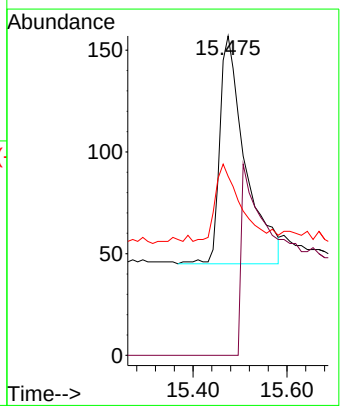


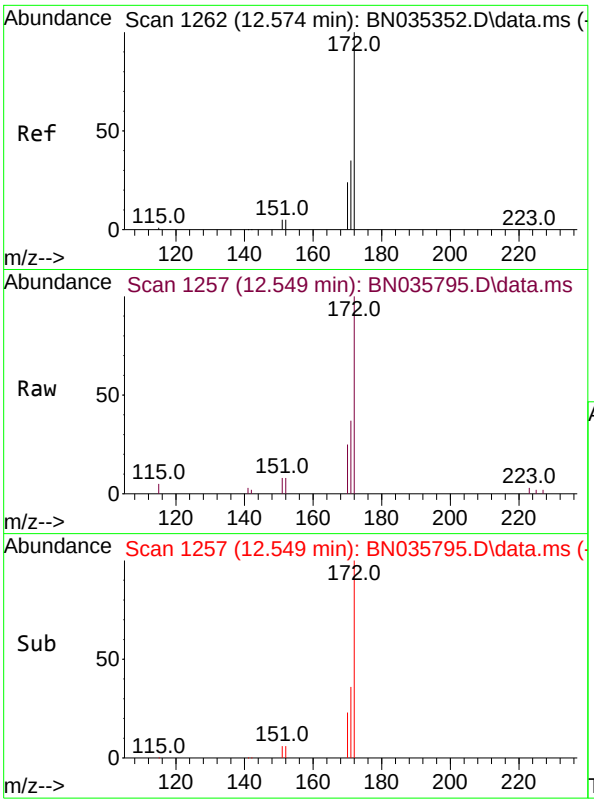


#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:330 Resp: 426

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.6	26.6	40.0



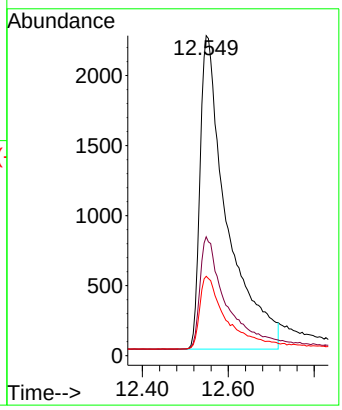


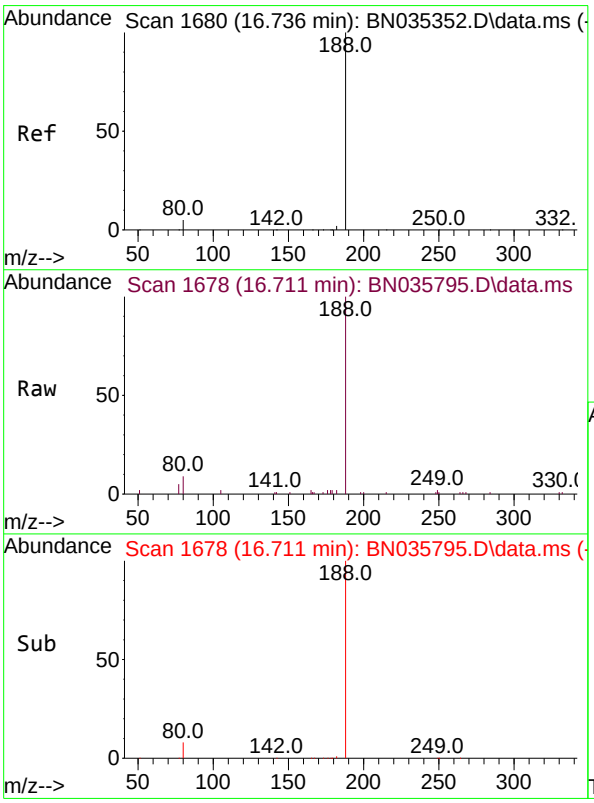
#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.549 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion:172 Resp: 9720

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.0	43.4
170	24.8	19.8	29.8

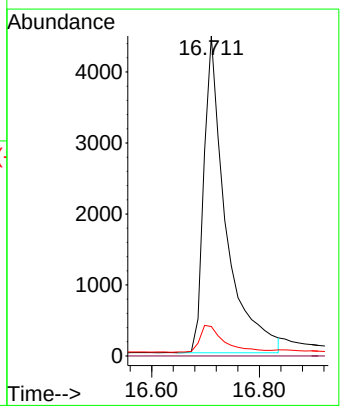


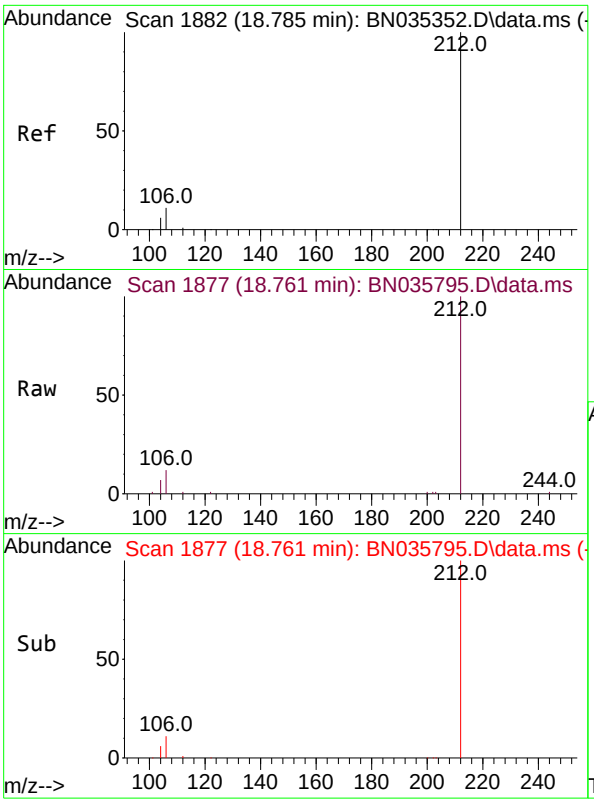


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:188 Resp: 12605

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#



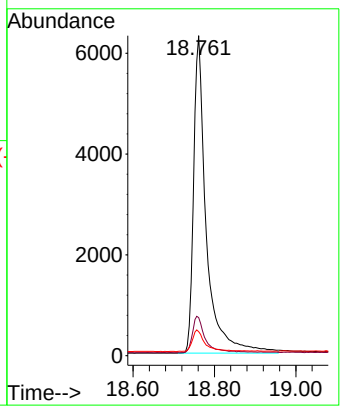


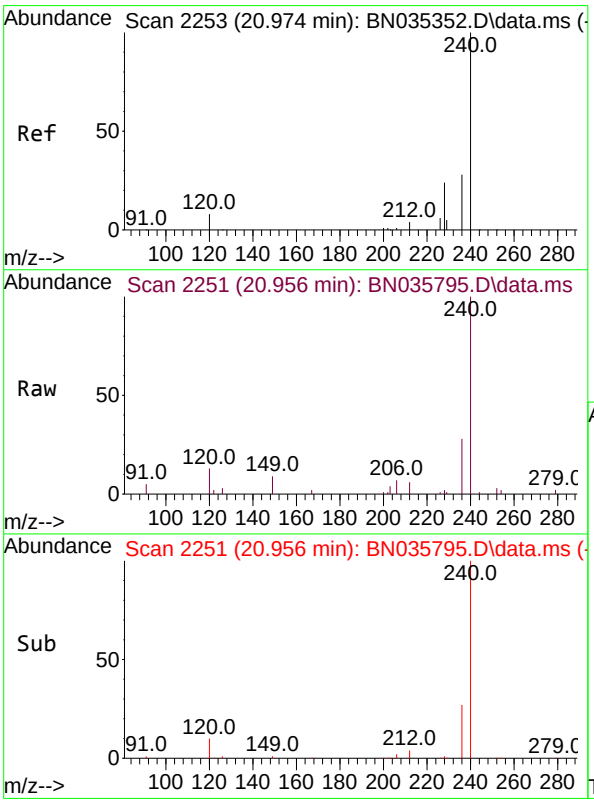
#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion:212 Resp: 13649

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.6	5.3	7.9

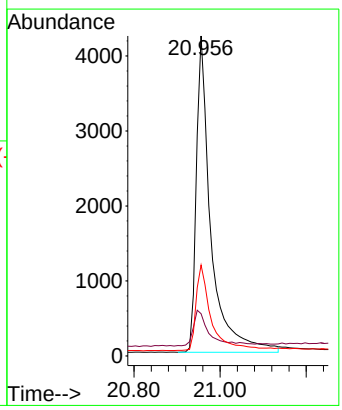


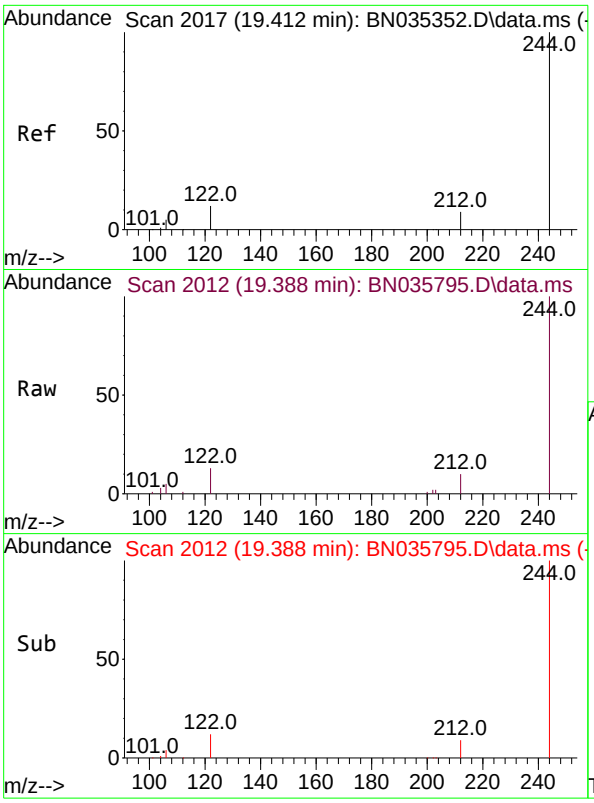


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:240 Resp: 9944

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	28.4	22.9	34.3



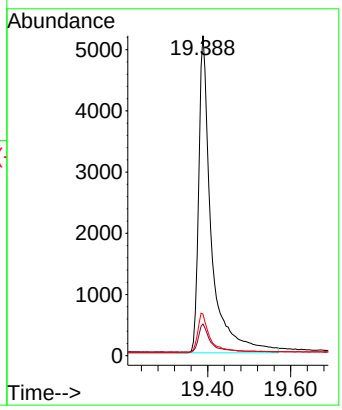


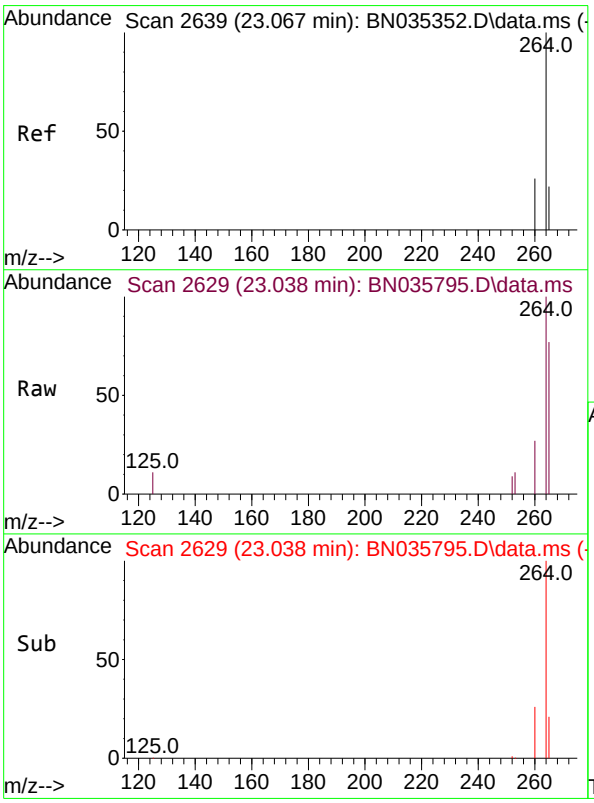
#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

Tgt Ion:244 Resp: 11020

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.0	10.3	15.5

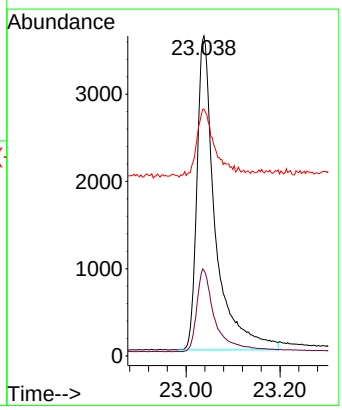




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:264 Resp: 9785

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.2
265	77.1	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035796.D
Acq On : 23 Dec 2024 23:27
Operator : RC/JU
Sample : P5281-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Quant Time: Dec 24 00:13:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

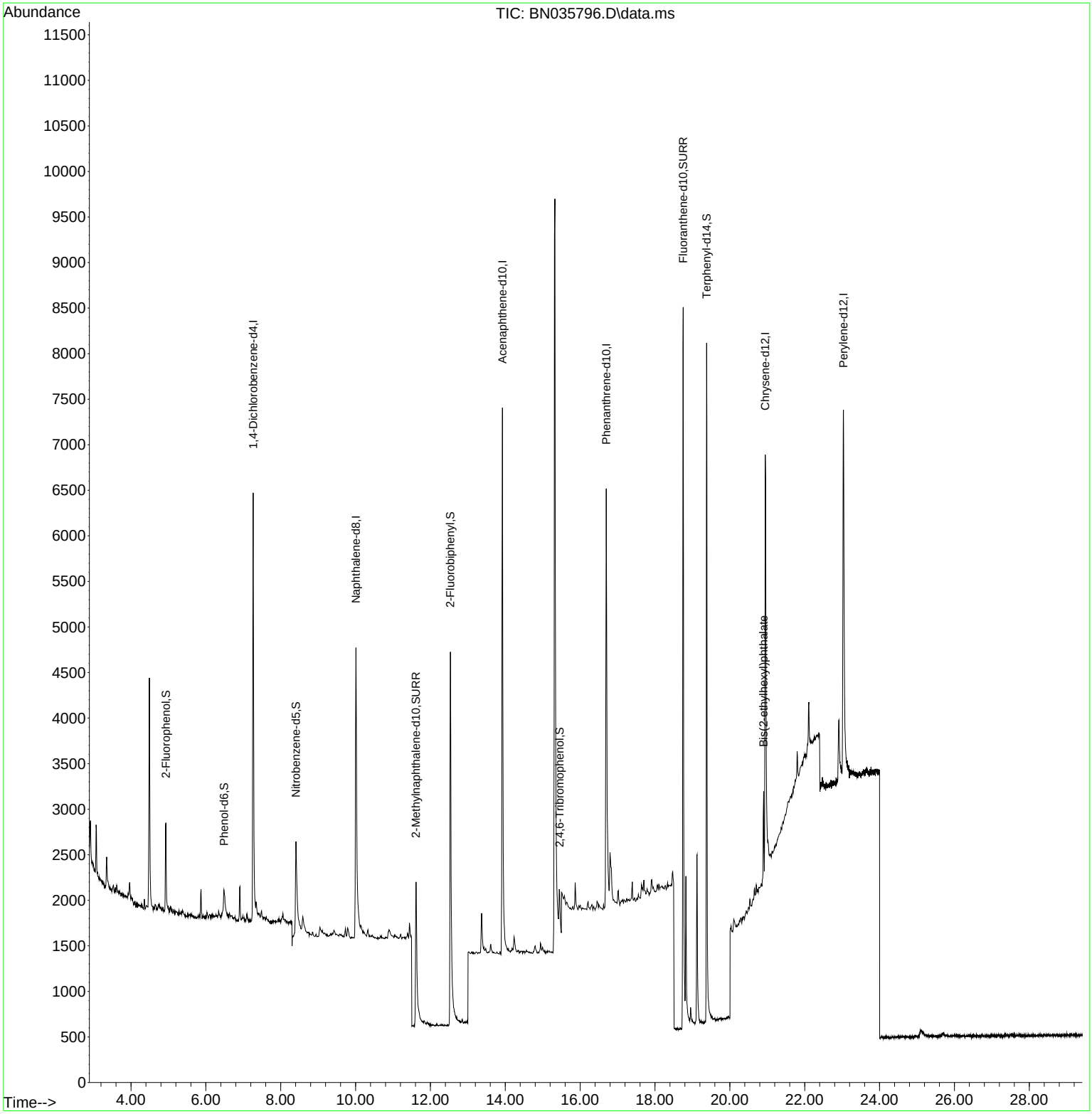
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	2754	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6301	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	3973	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	7887	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6724	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6522	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	960	0.139	ng	0.00
5) Phenol-d6	6.484	99	532	0.064	ng	0.00
8) Nitrobenzene-d5	8.408	82	2681	0.697	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3684	0.374	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	614	0.218	ng	0.00
15) 2-Fluorobiphenyl	12.534	172	5868	0.391	ng	-0.01
27) Fluoranthene-d10	18.752	212	11118	0.497	ng	0.00
31) Terphenyl-d14	19.379	244	8462	0.638	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.902	149	1064	0.115	ng	95

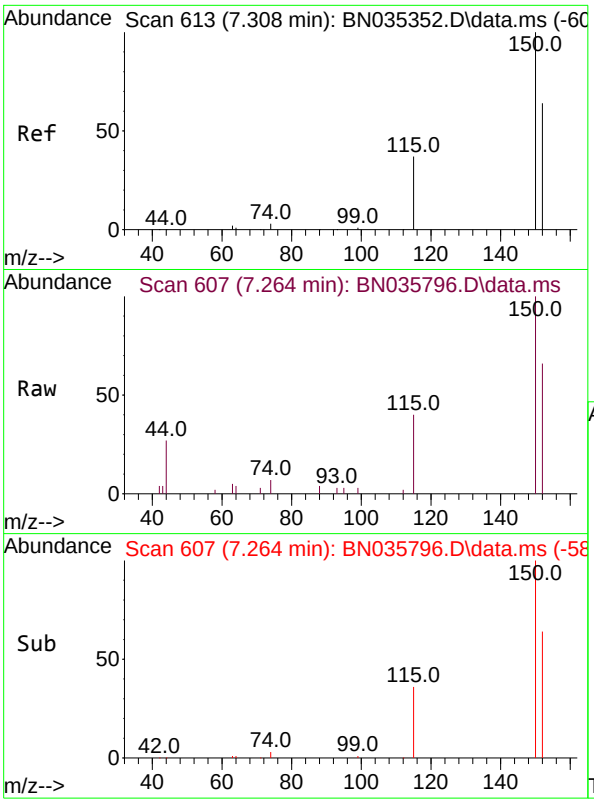
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035796.D
Acq On : 23 Dec 2024 23:27
Operator : RC/JU
Sample : P5281-03
Misc :
ALS Vial : 78 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Quant Time: Dec 24 00:13:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



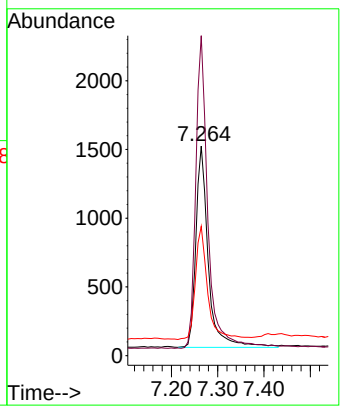


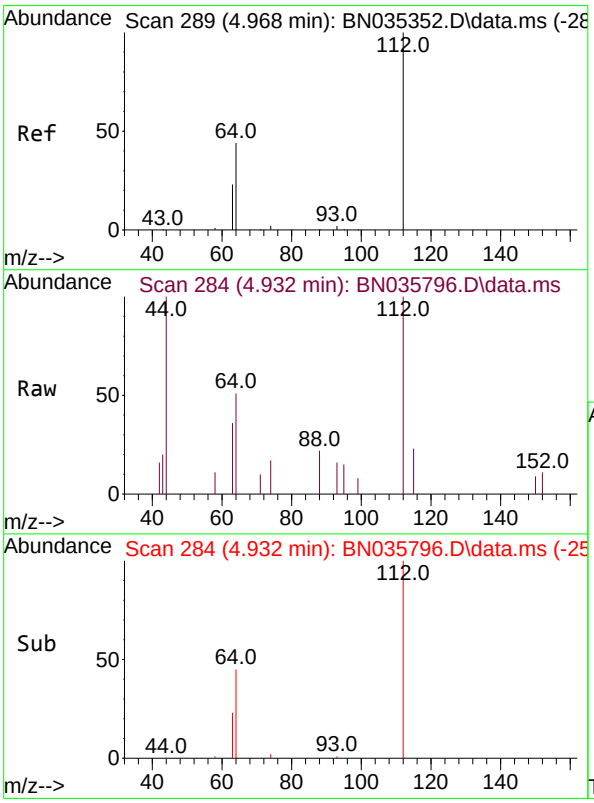
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:152 Resp: 2754

Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.0	186.0
115	61.7	49.6	74.4

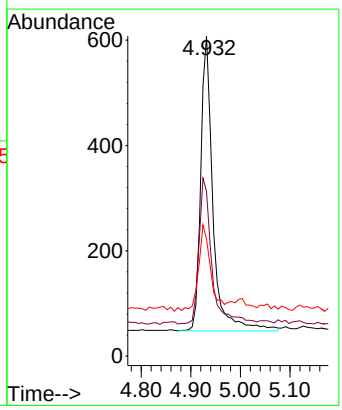


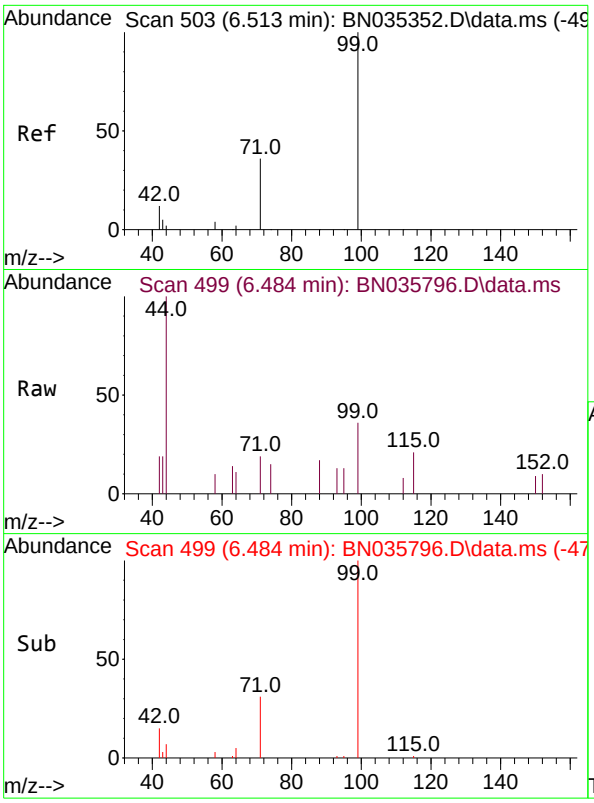


#4
2-Fluorophenol
Concen: 0.139 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:112 Resp: 960

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	29.1	21.0	31.6



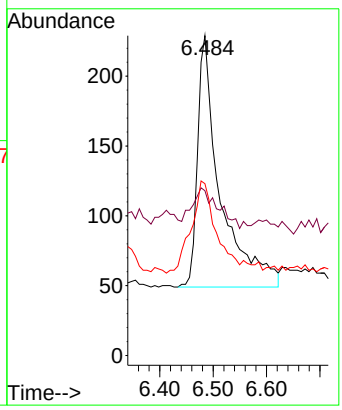


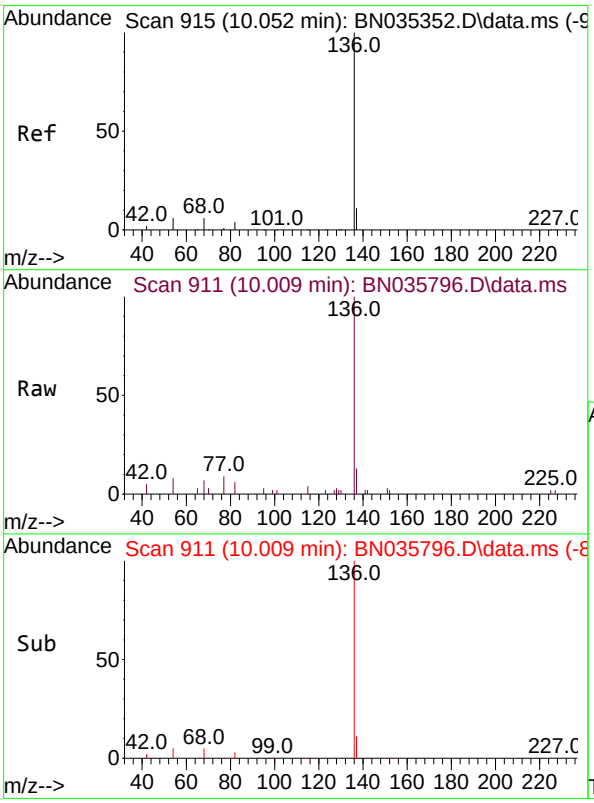
#5
Phenol-d6
Concen: 0.064 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion: 99 Resp: 532

Ion	Ratio	Lower	Upper
99	100		
42	18.4	11.4	17.2#
71	43.4	29.3	43.9

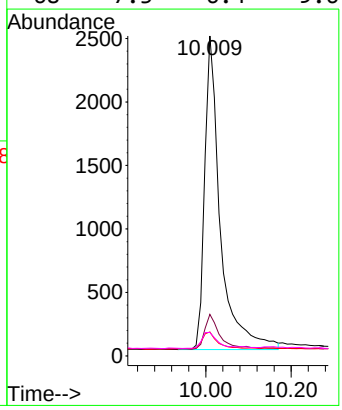


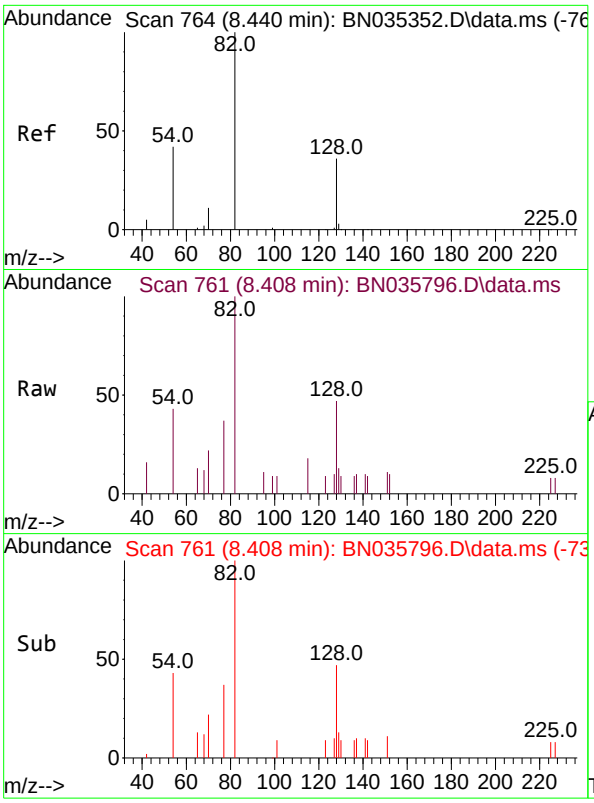


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:136 Resp: 6301

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.5	6.1	9.1
68	7.3	6.4	9.6



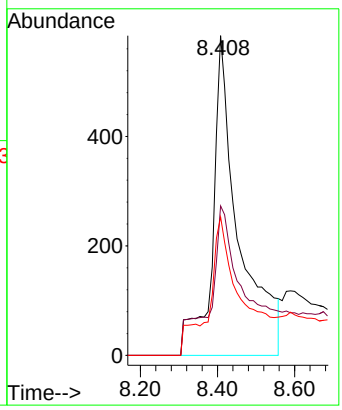


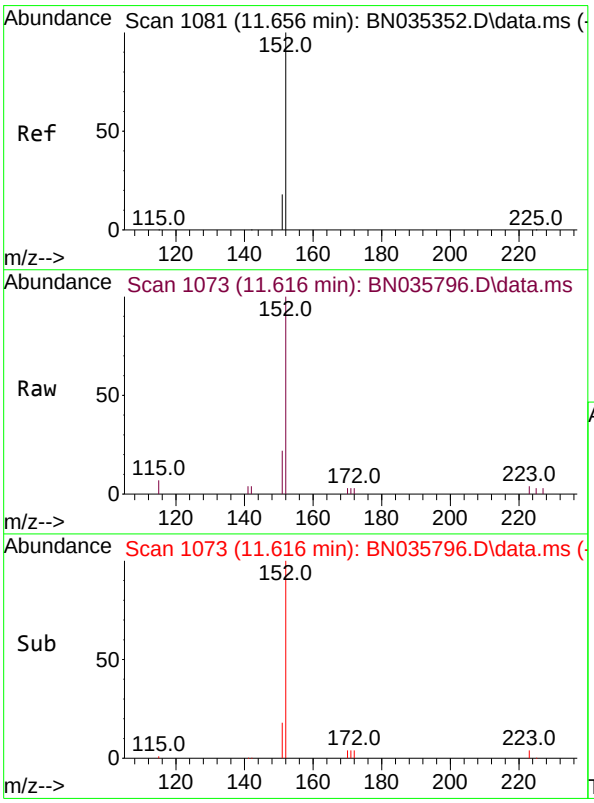
#8
Nitrobenzene-d5
Concen: 0.697 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion: 82 Resp: 2681

Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	43.3	36.7	55.1

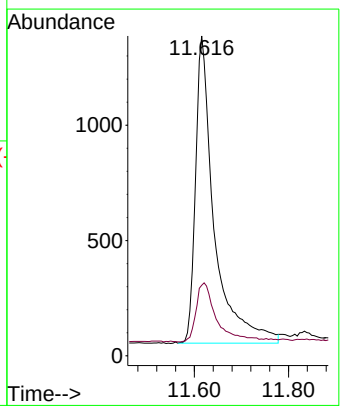


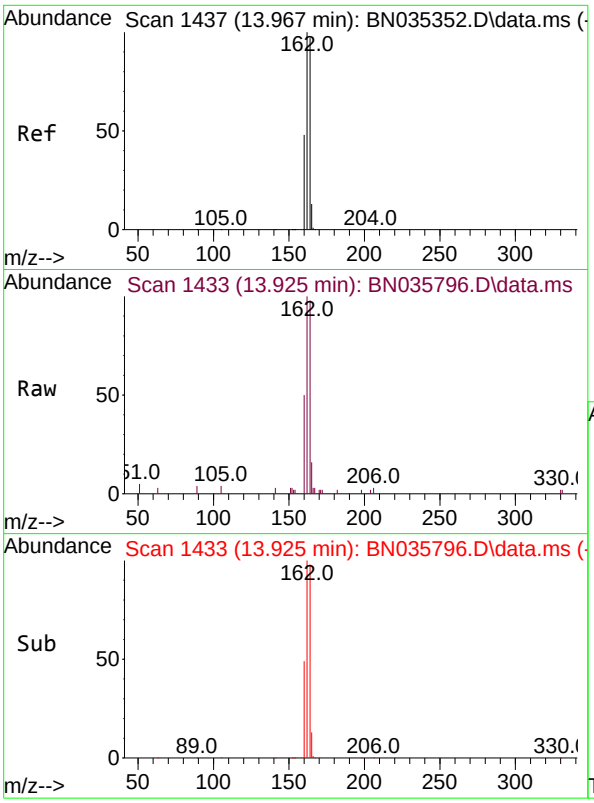


#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:152 Resp: 3684

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0



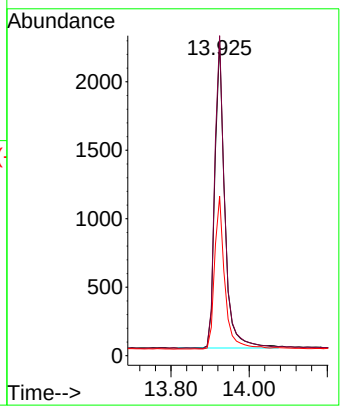


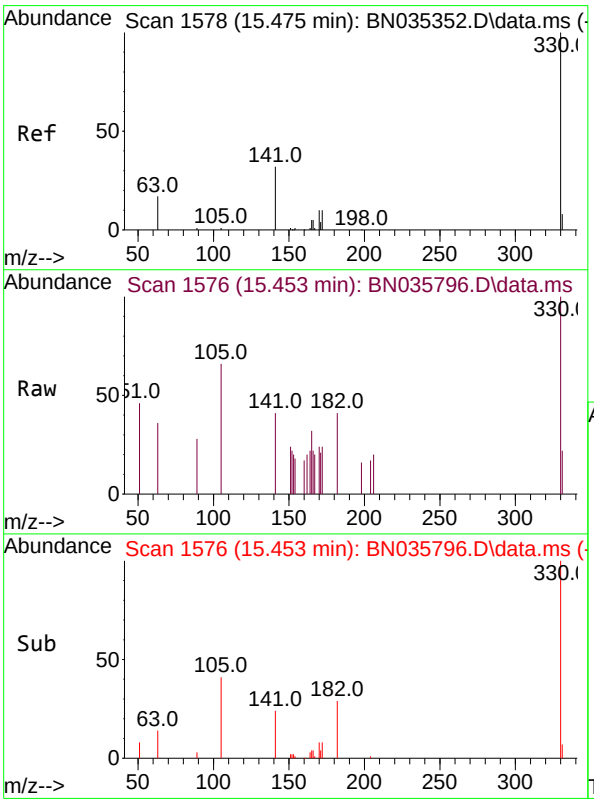
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:164 Resp: 3973

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	50.7	40.1	60.1

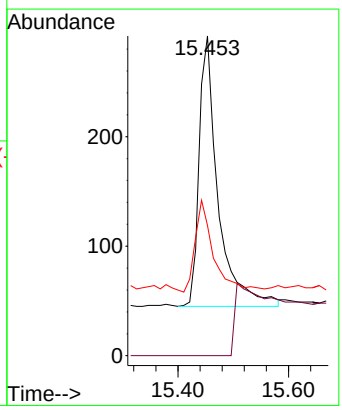


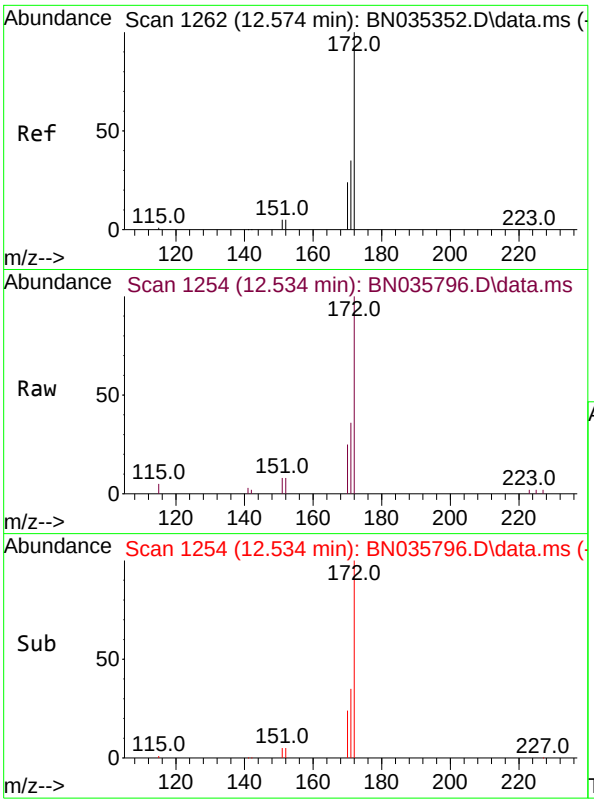


#14
2,4,6-Tribromophenol
Concen: 0.218 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:330 Resp: 614

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0



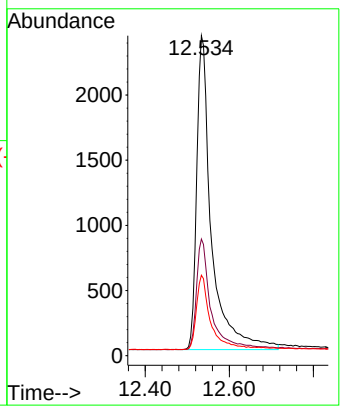


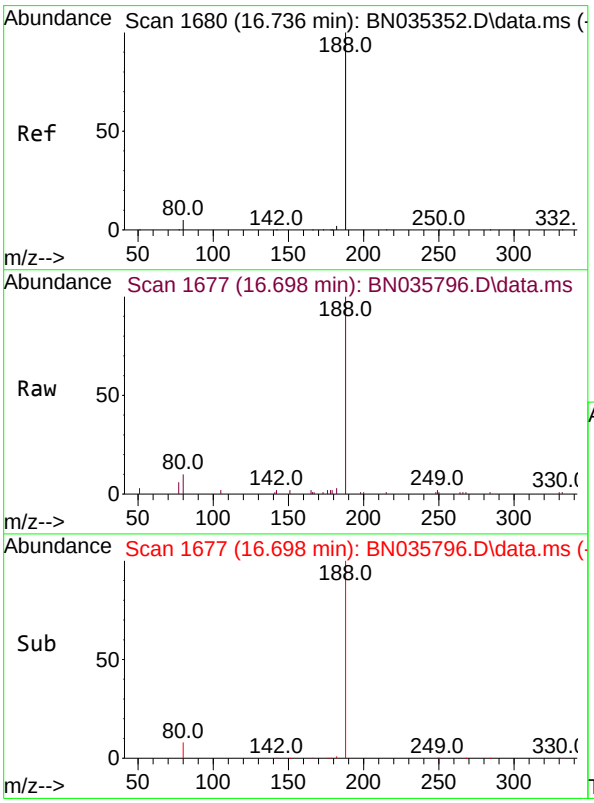
#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:172 Resp: 5868

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	25.2	19.8	29.8

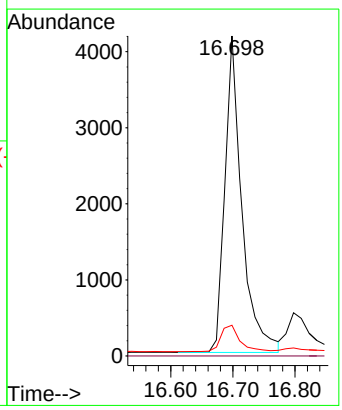


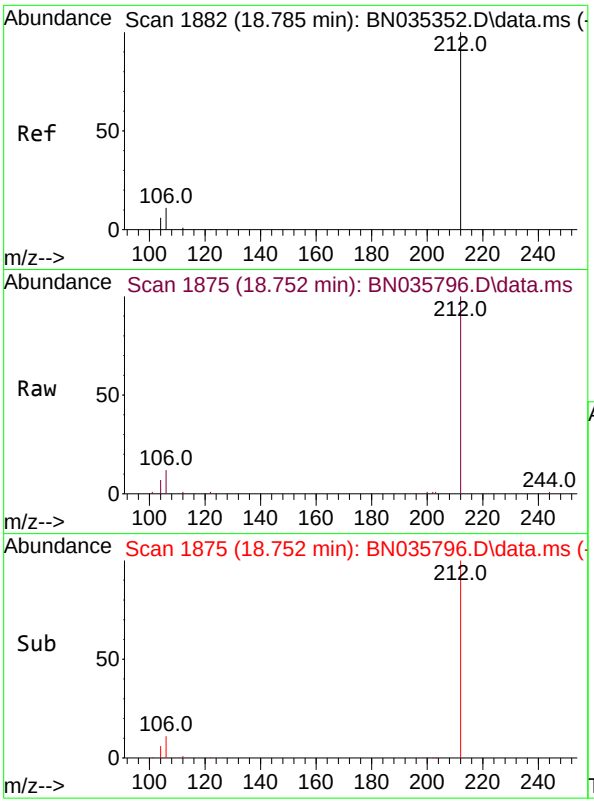


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:188 Resp: 7887

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	4.6	6.8#



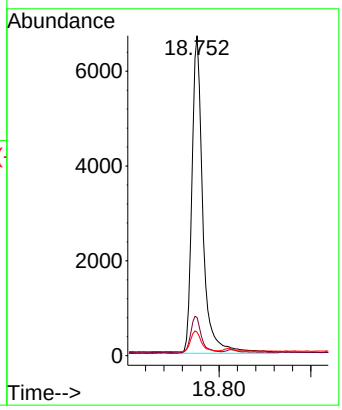


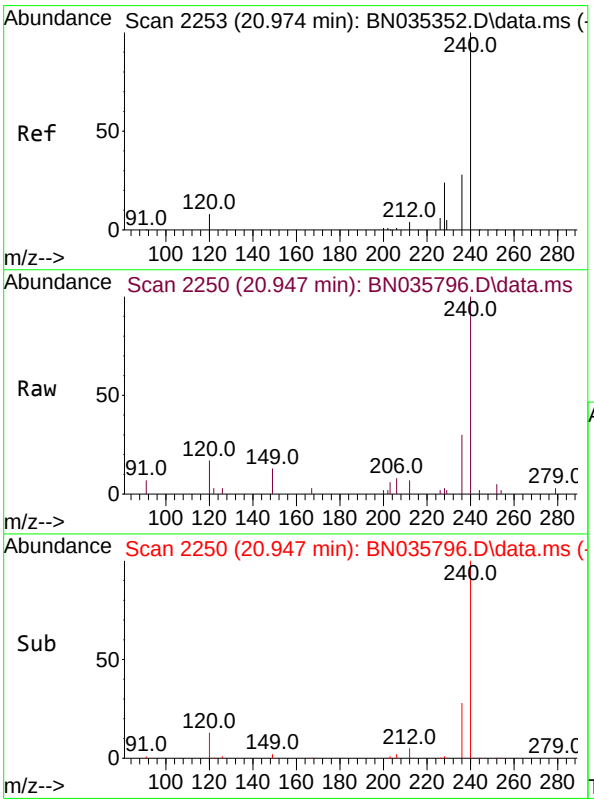
#27
Fluoranthene-d10
Concen: 0.497 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:212 Resp: 11118

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.4	5.3	7.9

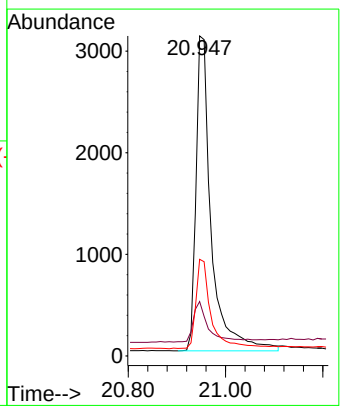


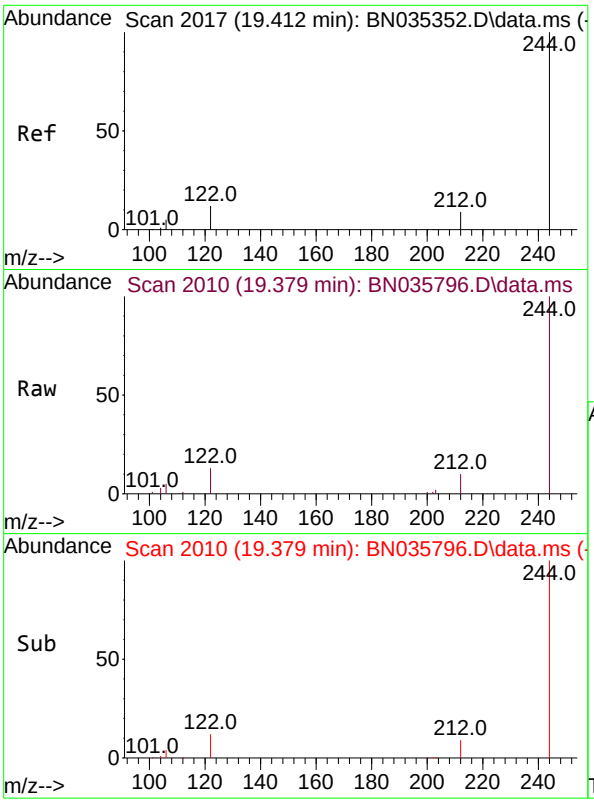


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:240 Resp: 6724

Ion	Ratio	Lower	Upper
240	100		
120	17.0	7.9	11.9#
236	30.2	22.9	34.3



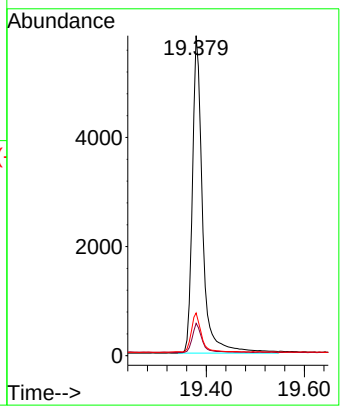


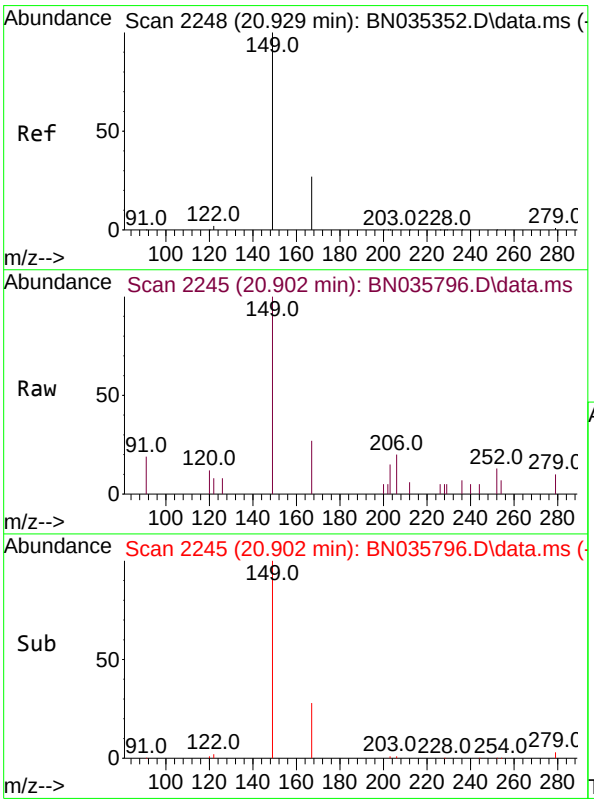
#31
Terphenyl-d14
Concen: 0.638 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:244 Resp: 8462

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.3	10.3	15.5

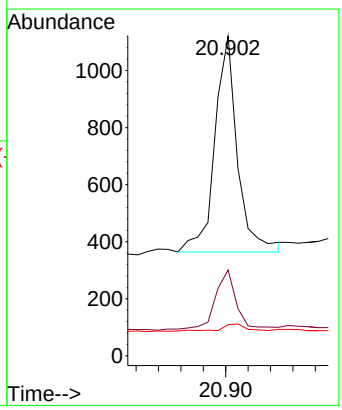


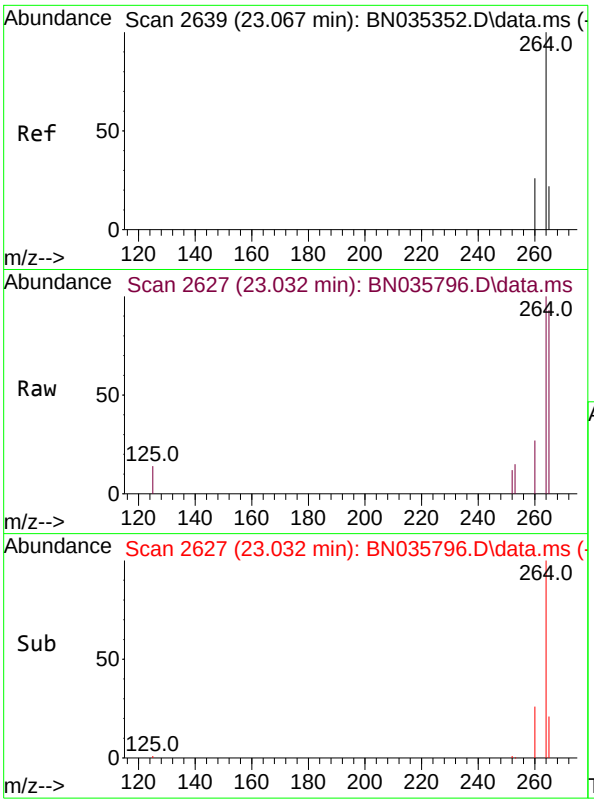


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.115 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Tgt Ion:149 Resp: 1064

Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.2	33.4
279	3.9	2.7	4.1



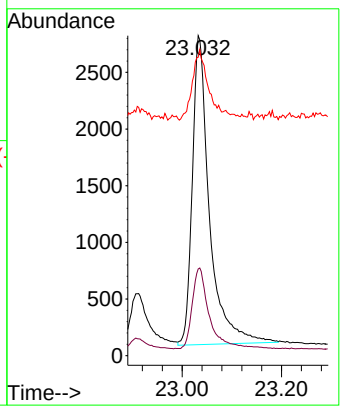


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035796.D
Acq: 23 Dec 2024 23:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:264 Resp: 6522

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	93.3	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035797.D
Acq On : 24 Dec 2024 00:03
Operator : RC/JU
Sample : P5281-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Quant Time: Dec 24 01:01:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3510	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8407	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4886	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9472	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7607	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7540	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1083	0.123	ng	0.00
5) Phenol-d6	6.484	99	636	0.060	ng	0.00
8) Nitrobenzene-d5	8.408	82	3335	0.649	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4871	0.370	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	741	0.214	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7441	0.403	ng	-0.02
27) Fluoranthene-d10	18.752	212	12361	0.460	ng	0.00
31) Terphenyl-d14	19.379	244	9290	0.619	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1740	0.519	ng	96
34) Bis(2-ethylhexyl)phtha...	20.902	149	1153	0.110	ng	# 96

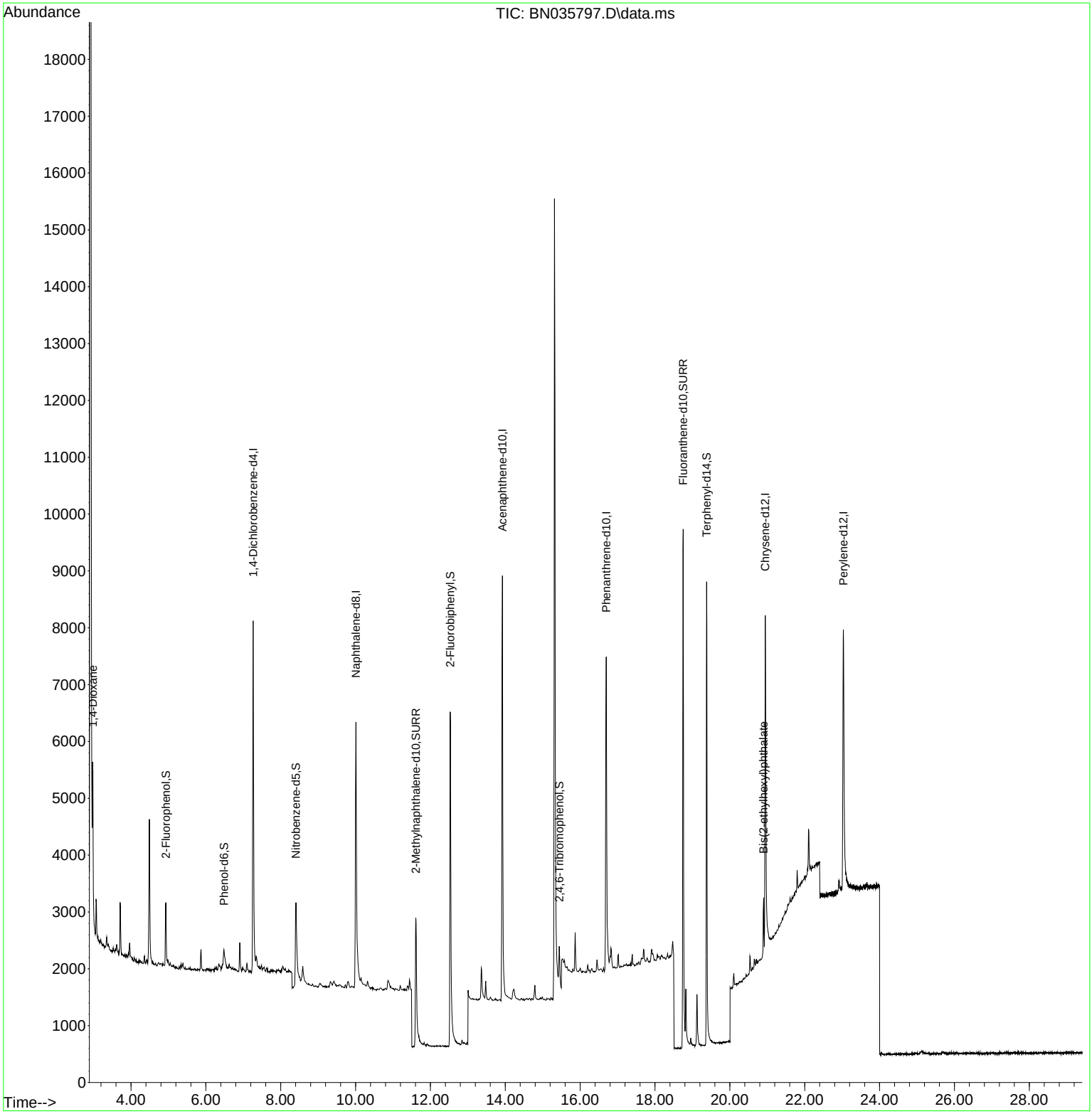
(#) = qualifier out of range (m) = manual integration (+) = signals summed

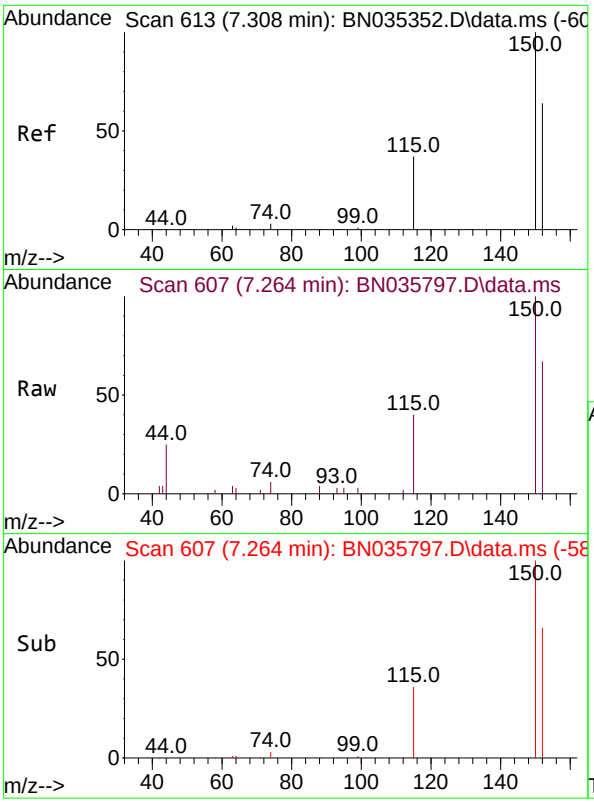
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035797.D
Acq On : 24 Dec 2024 00:03
Operator : RC/JU
Sample : P5281-05
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Quant Time: Dec 24 01:01:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



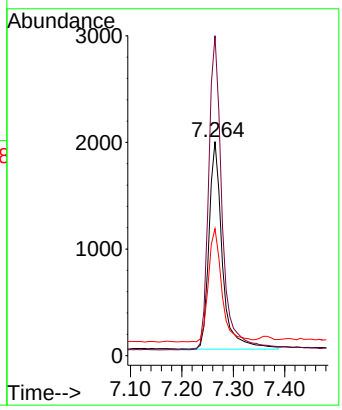


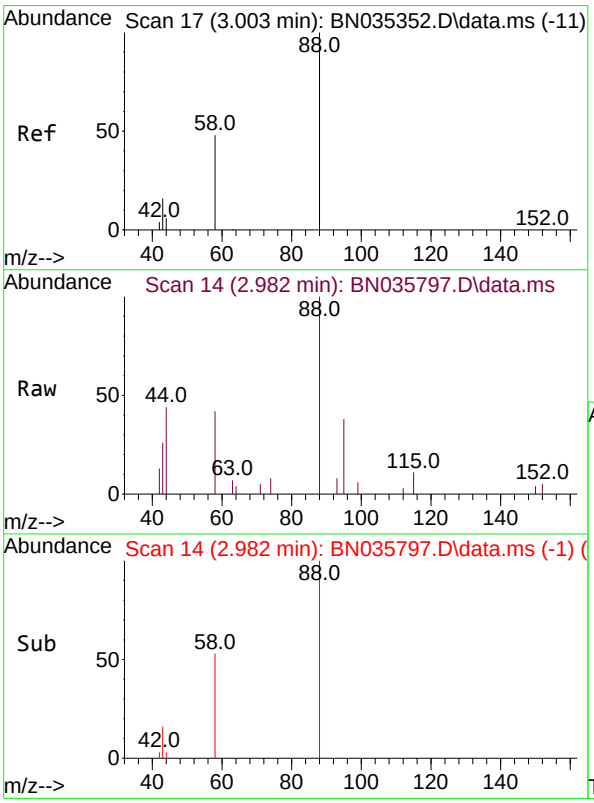
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:152 Resp: 3510

Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.0	186.0
115	59.4	49.6	74.4

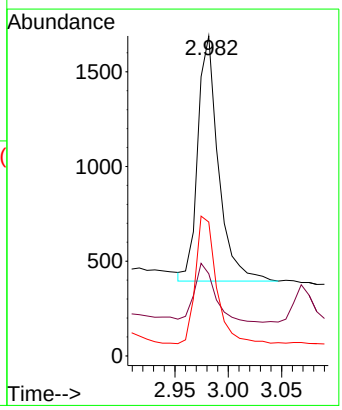


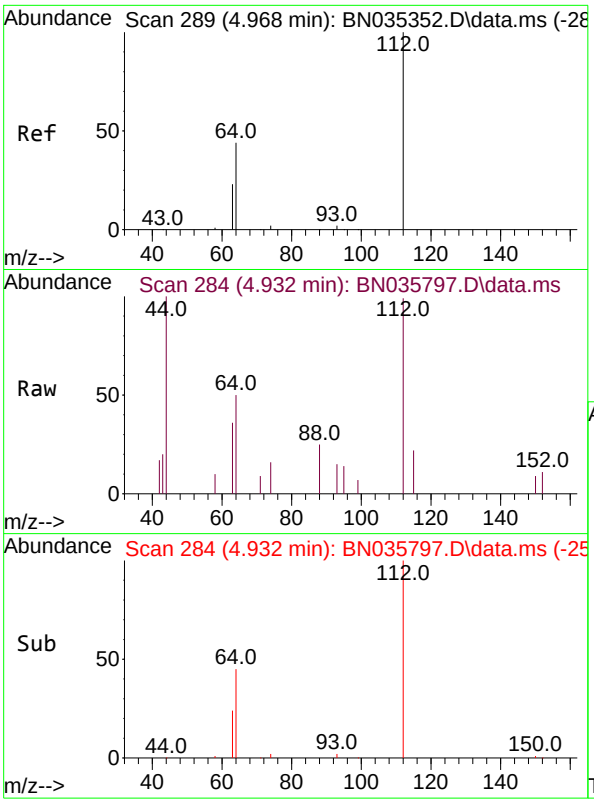


#2
1,4-Dioxane
Concen: 0.519 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion: 88 Resp: 1740

Ion	Ratio	Lower	Upper
88	100		
43	23.8	17.2	25.8
58	52.6	44.5	66.7



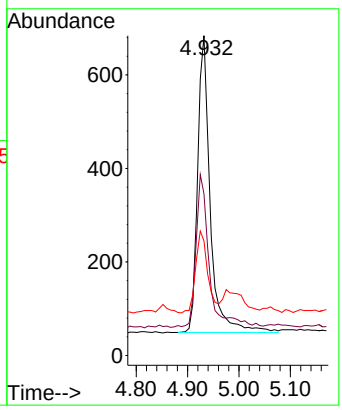


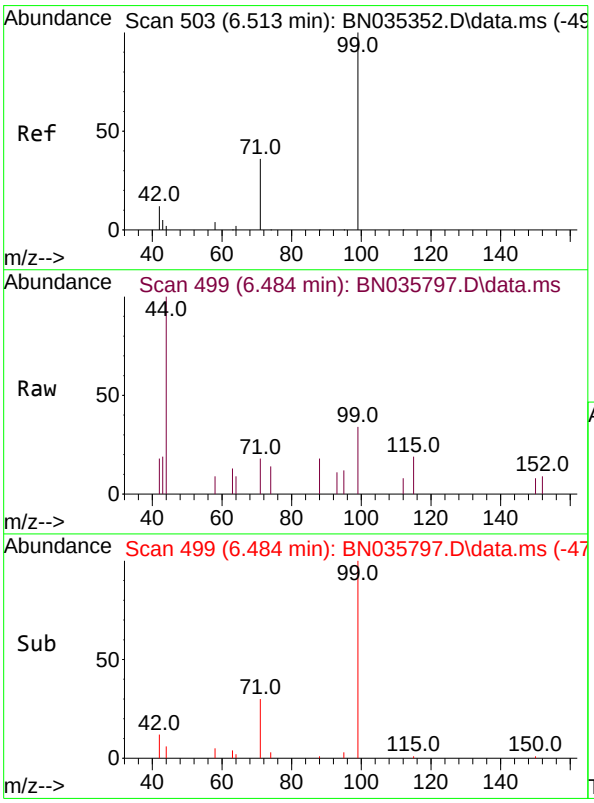
#4
2-Fluorophenol
Concen: 0.123 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:112 Resp: 1083

Ion	Ratio	Lower	Upper
112	100		
64	54.1	39.8	59.8
63	26.4	21.0	31.6

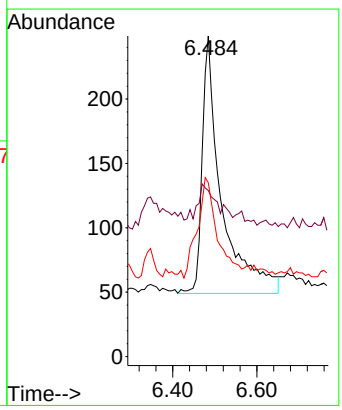


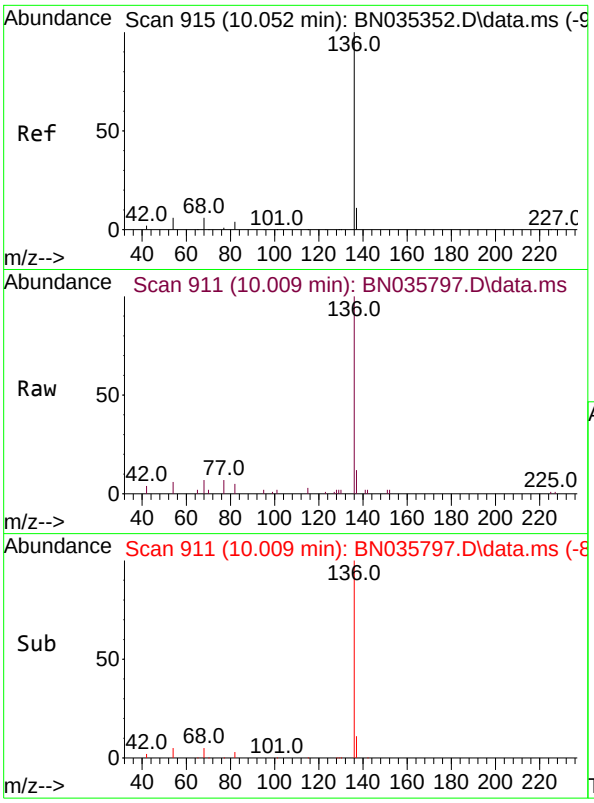


#5
Phenol-d6
Concen: 0.060 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion: 99 Resp: 636

Ion	Ratio	Lower	Upper
99	100		
42	10.7	11.4	17.2#
71	40.7	29.3	43.9



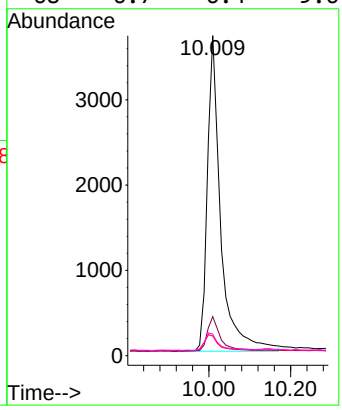


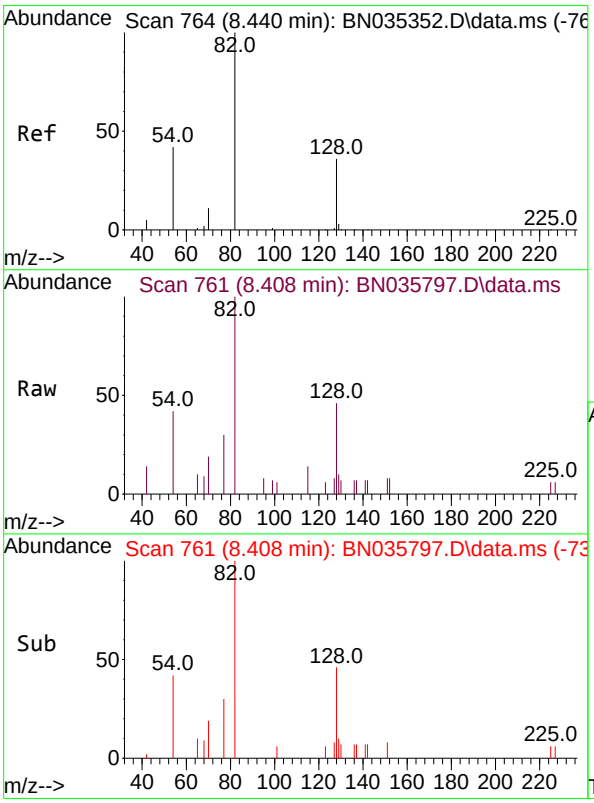
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:136 Resp: 8407

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.2	6.1	9.1
68	6.7	6.4	9.6

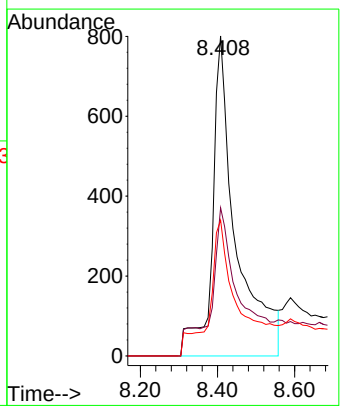


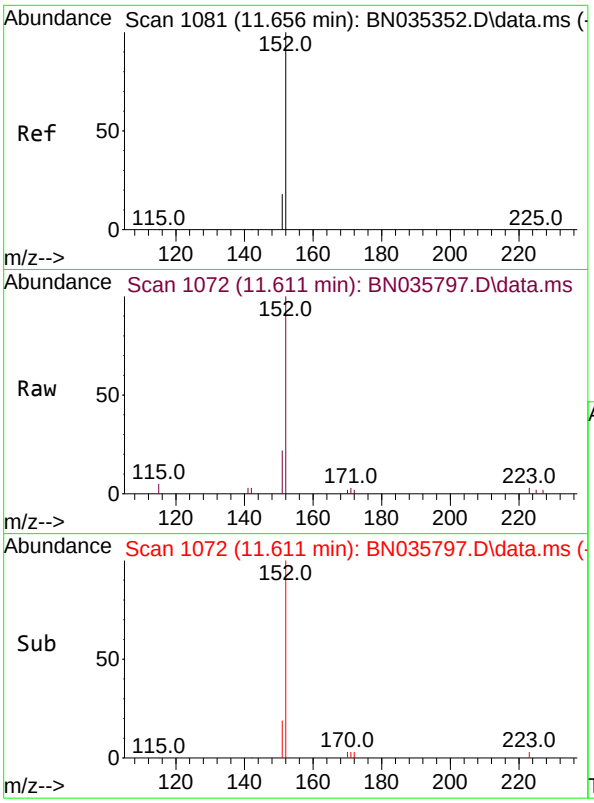


#8
Nitrobenzene-d5
Concen: 0.649 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion: 82 Resp: 3335

Ion	Ratio	Lower	Upper
82	100		
128	46.3	33.4	50.0
54	42.4	36.7	55.1



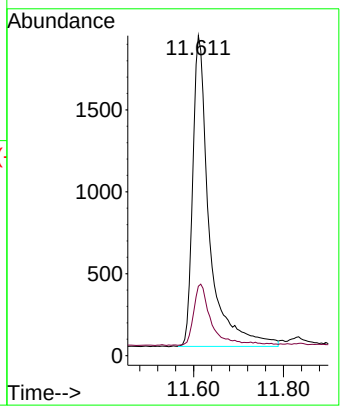


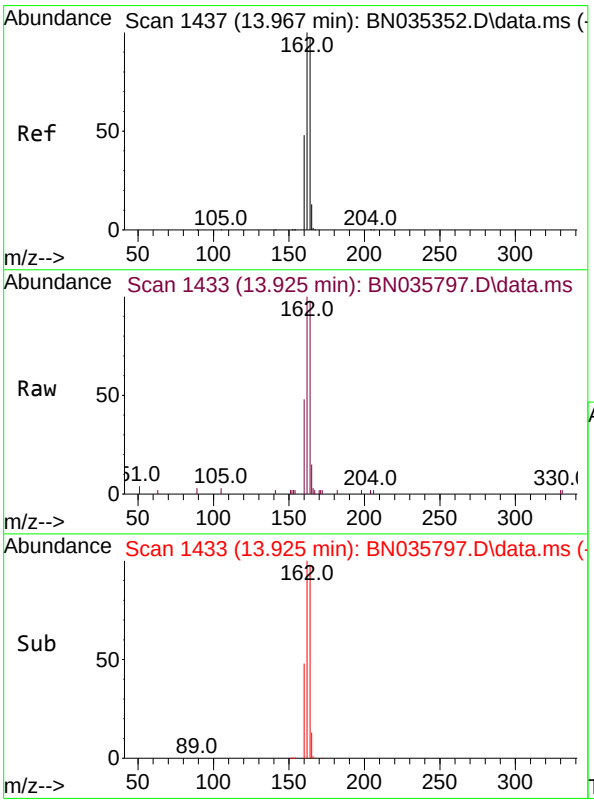
#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:152 Resp: 4871

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	25.0

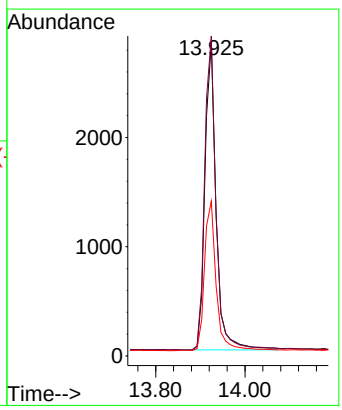


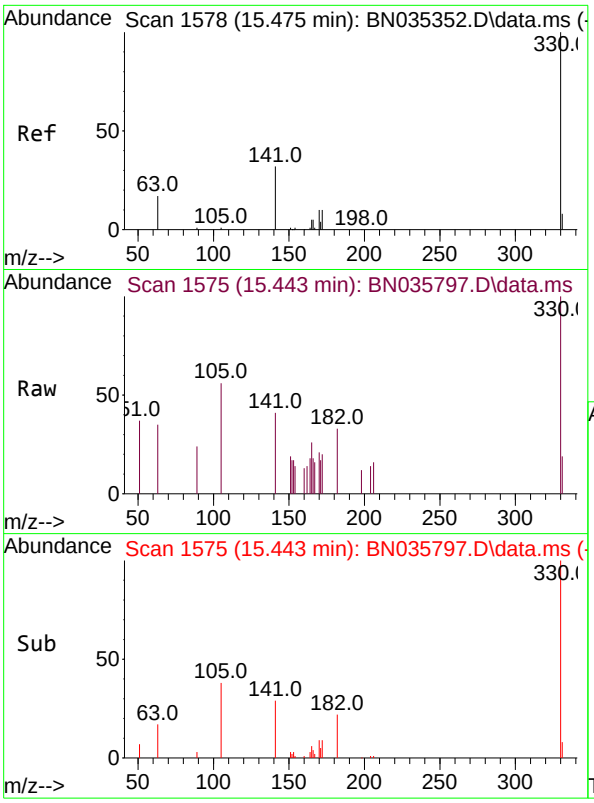


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:164 Resp: 4886

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.4	40.1	60.1



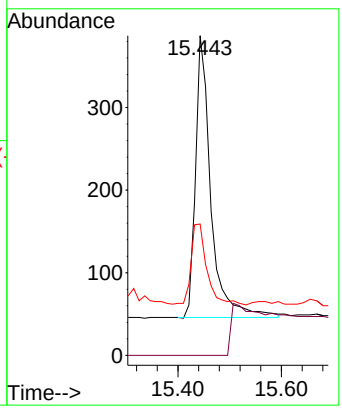


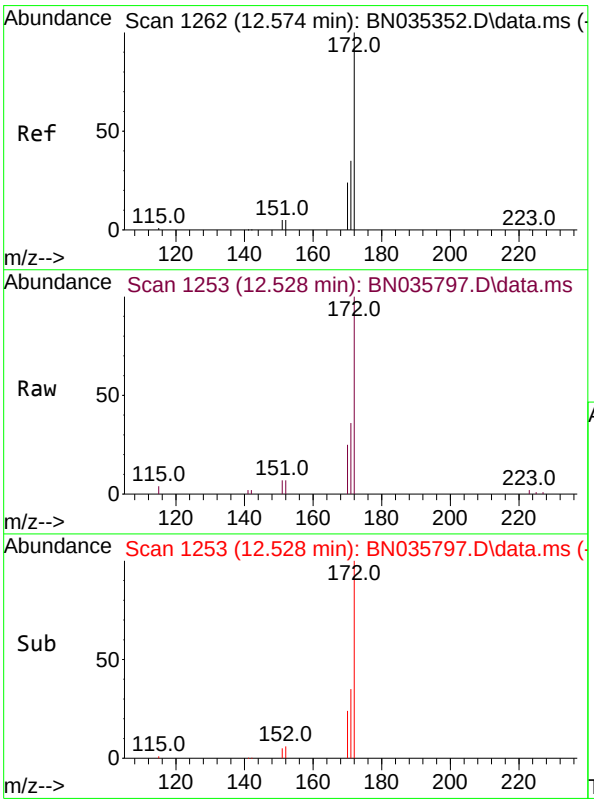
#14
2,4,6-Tribromophenol
Concen: 0.214 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:330 Resp: 741

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0

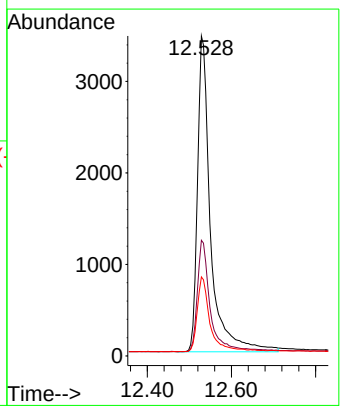


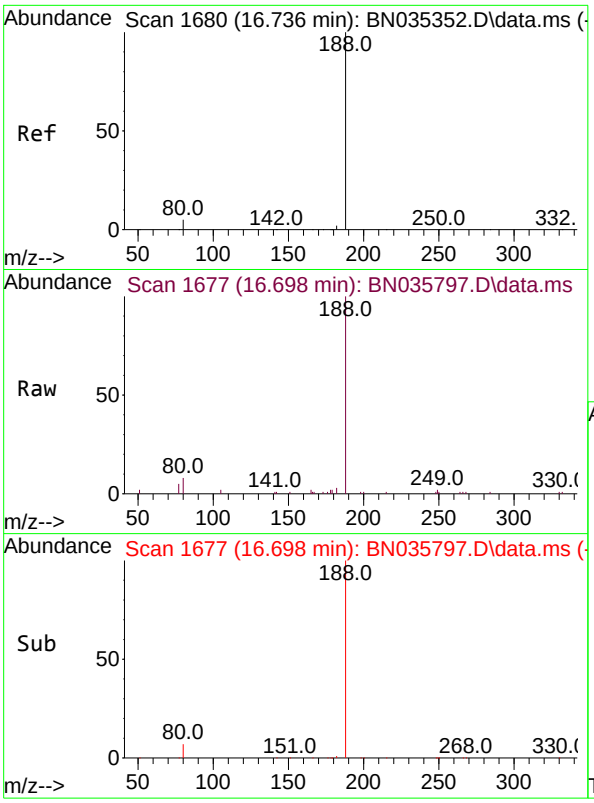


#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:172 Resp: 7441

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.7	19.8	29.8



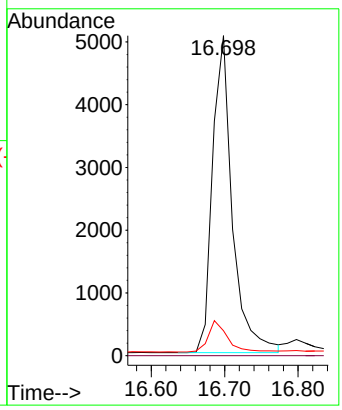


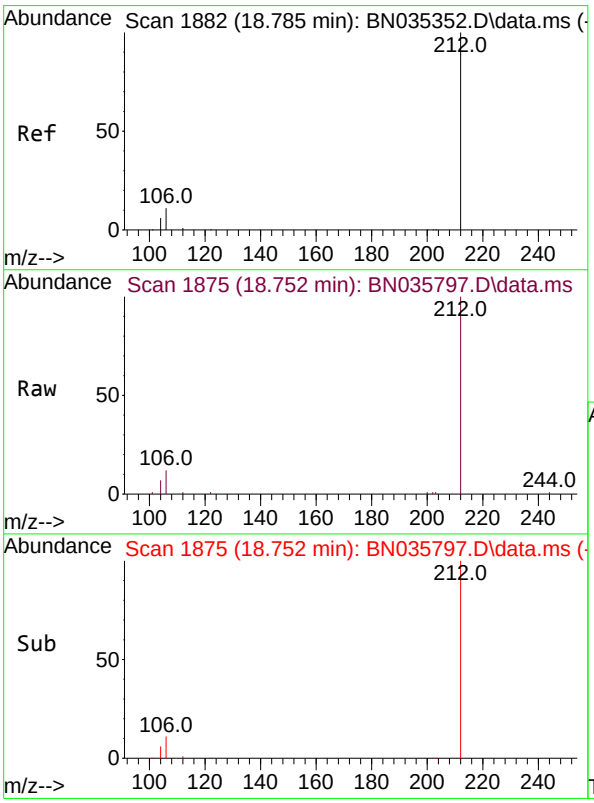
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:188 Resp: 9472

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	4.6	6.8#

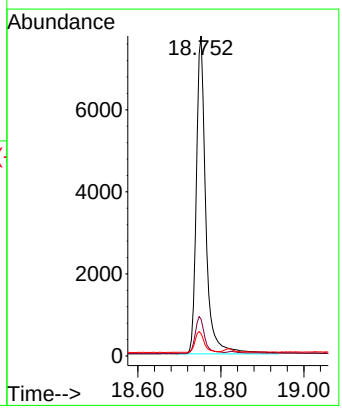


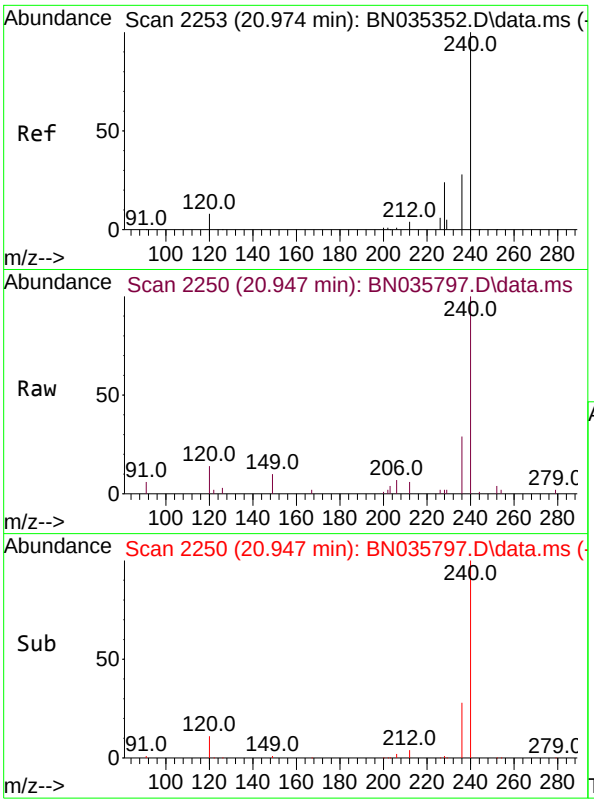


#27
Fluoranthene-d10
Concen: 0.460 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:212 Resp: 12361

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.3	5.3	7.9



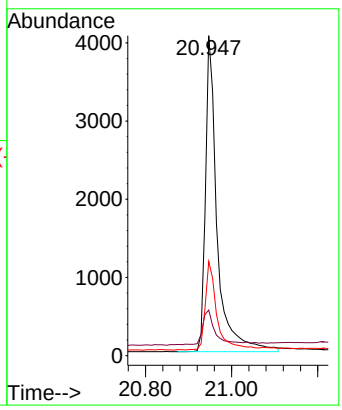


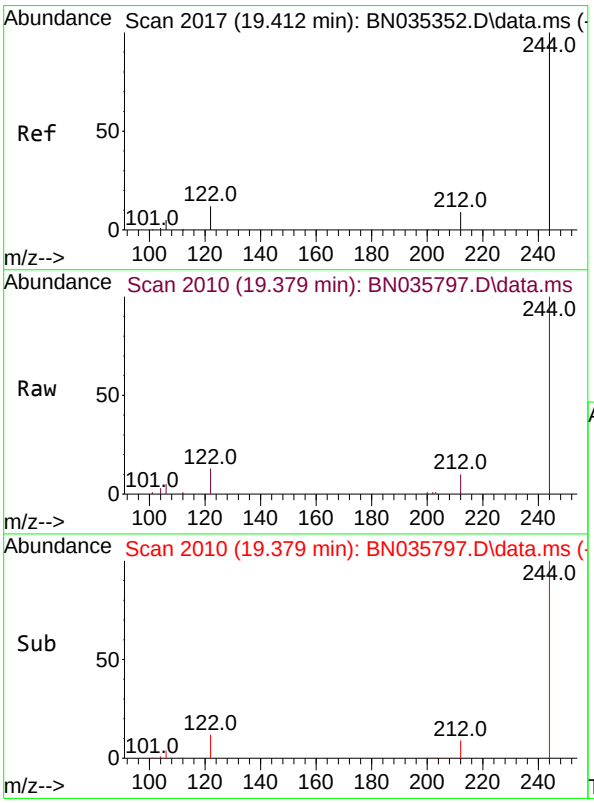
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:240 Resp: 7607

Ion	Ratio	Lower	Upper
240	100		
120	14.2	7.9	11.9#
236	29.4	22.9	34.3

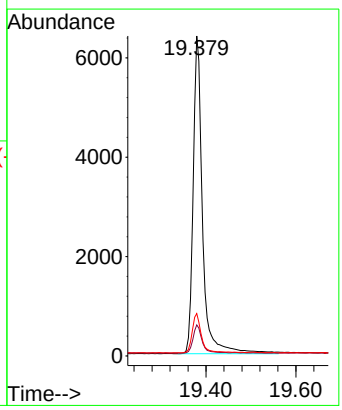


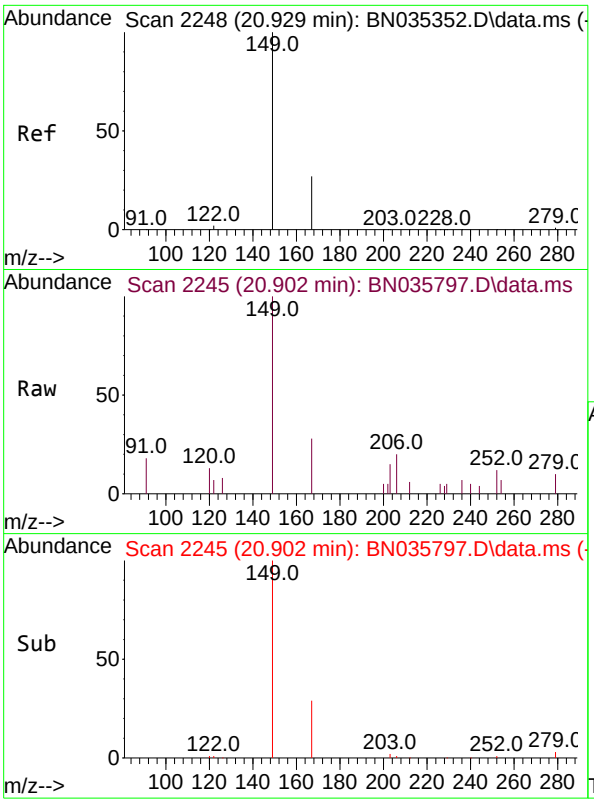


#31
Terphenyl-d14
Concen: 0.619 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:244 Resp: 9290

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	13.2	10.3	15.5



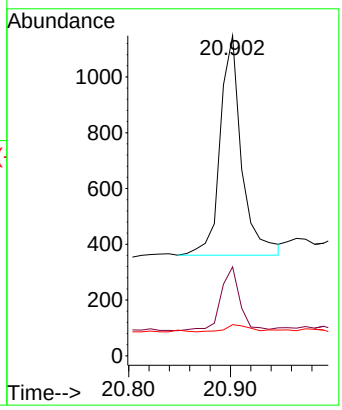


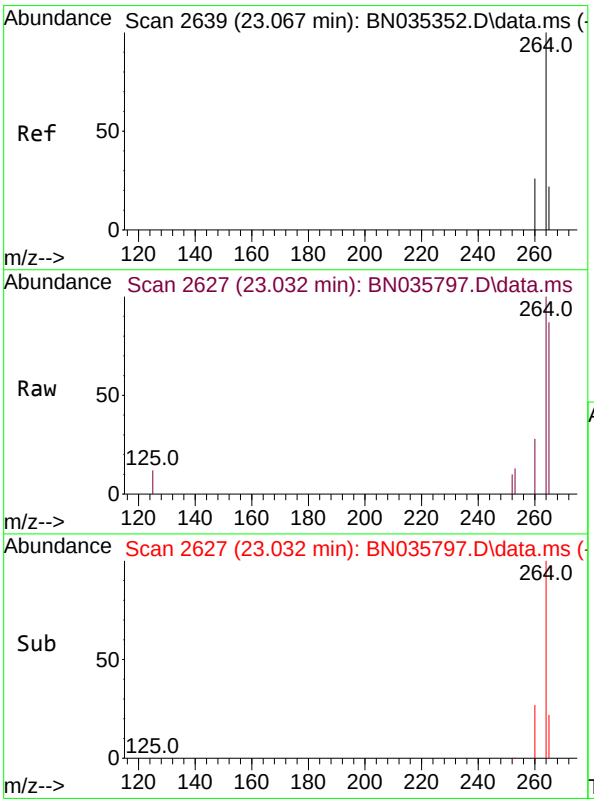
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.110 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Instrument :
BNA_N
ClientSampleId :
RE117D1-20241213

Tgt Ion:149 Resp: 1153

Ion	Ratio	Lower	Upper
149	100		
167	25.8	22.2	33.4
279	4.2	2.7	4.1#

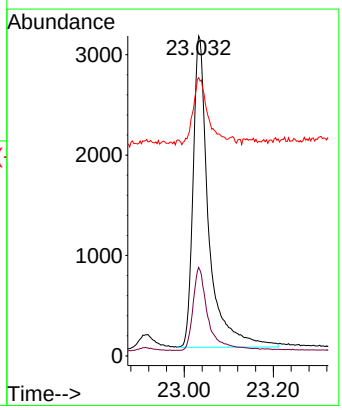




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035797.D
Acq: 24 Dec 2024 00:03

Tgt Ion:264 Resp: 7540

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	86.9	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035798.D
Acq On : 24 Dec 2024 00:38
Operator : RC/JU
Sample : P5281-06
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Quant Time: Dec 24 01:19:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3252	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7609	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4867	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9367	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7413	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7624	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	981	0.121	ng	0.00
5) Phenol-d6	6.484	99	566	0.058	ng	0.00
8) Nitrobenzene-d5	8.408	82	2213	0.476	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4327	0.363	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	695	0.201	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6796	0.369	ng	-0.02
27) Fluoranthene-d10	18.752	212	12268	0.462	ng	0.00
31) Terphenyl-d14	19.379	244	9017	0.617	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	18377	5.911	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	461	0.056	ng	98
34) Bis(2-ethylhexyl)phtha...	20.902	149	962	0.094	ng	# 96

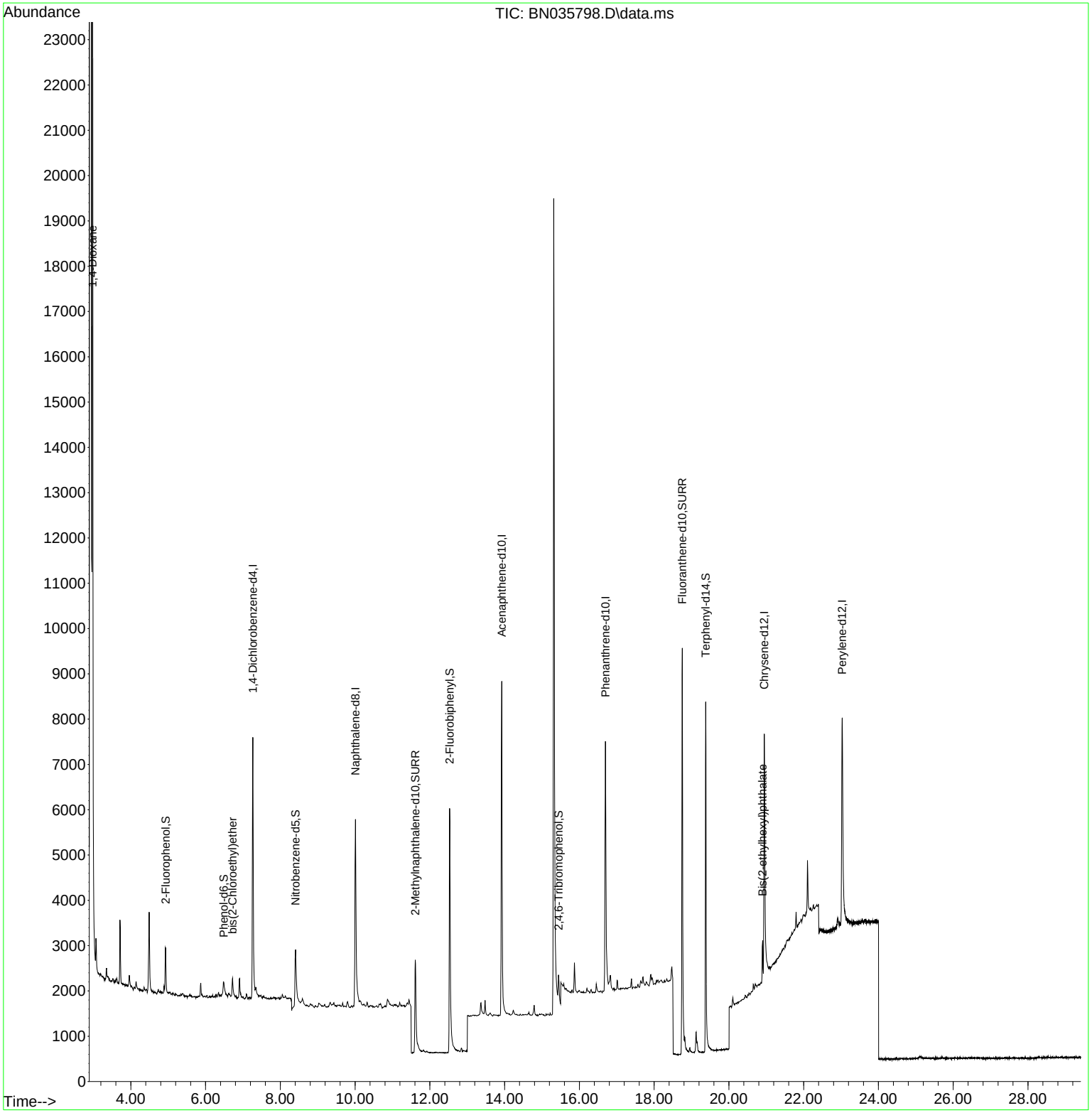
(#) = qualifier out of range (m) = manual integration (+) = signals summed

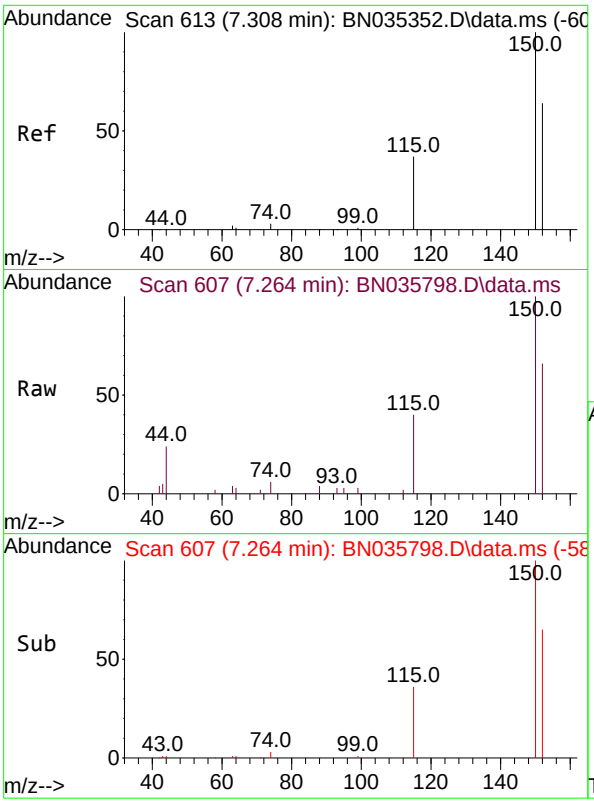
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035798.D
Acq On : 24 Dec 2024 00:38
Operator : RC/JU
Sample : P5281-06
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Quant Time: Dec 24 01:19:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



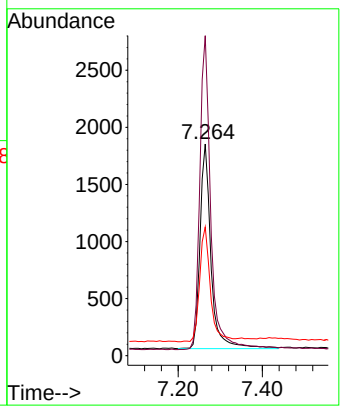


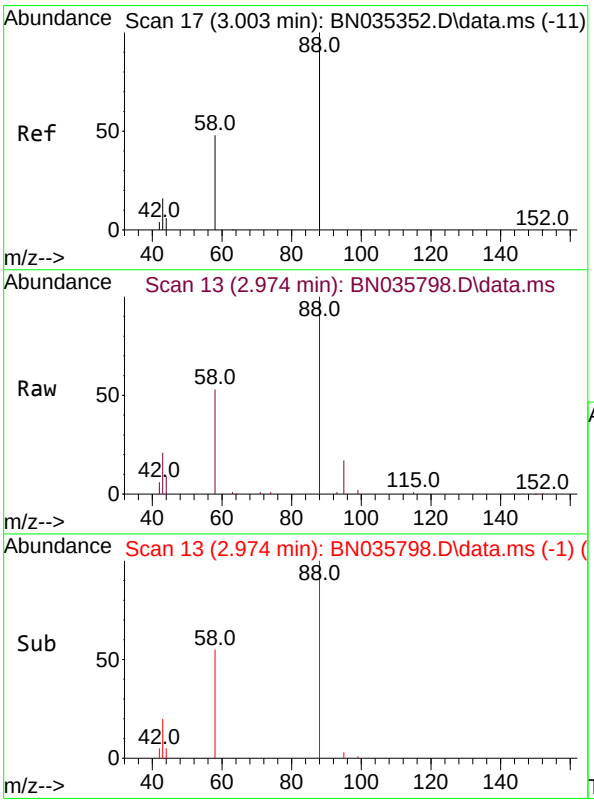
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:152 Resp: 3252

Ion	Ratio	Lower	Upper
152	100		
150	151.2	124.0	186.0
115	60.8	49.6	74.4

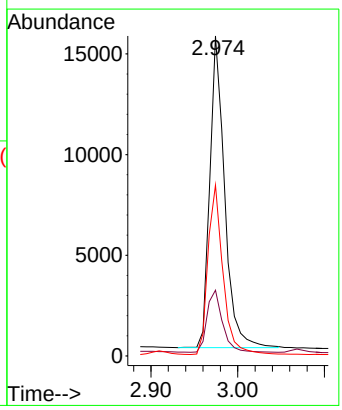


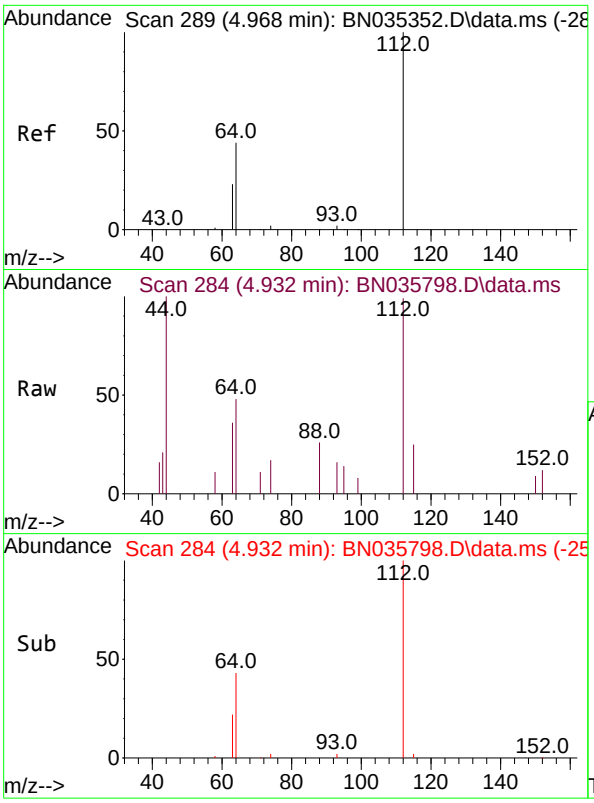


#2
1,4-Dioxane
Concen: 5.911 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion: 88 Resp: 18377

Ion	Ratio	Lower	Upper
88	100		
43	20.8	17.2	25.8
58	55.0	44.5	66.7



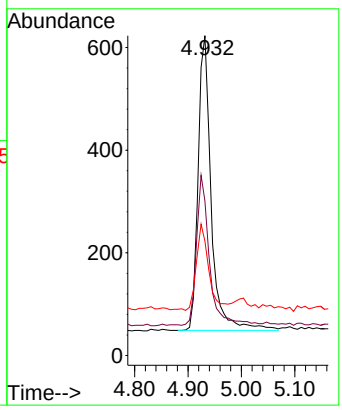


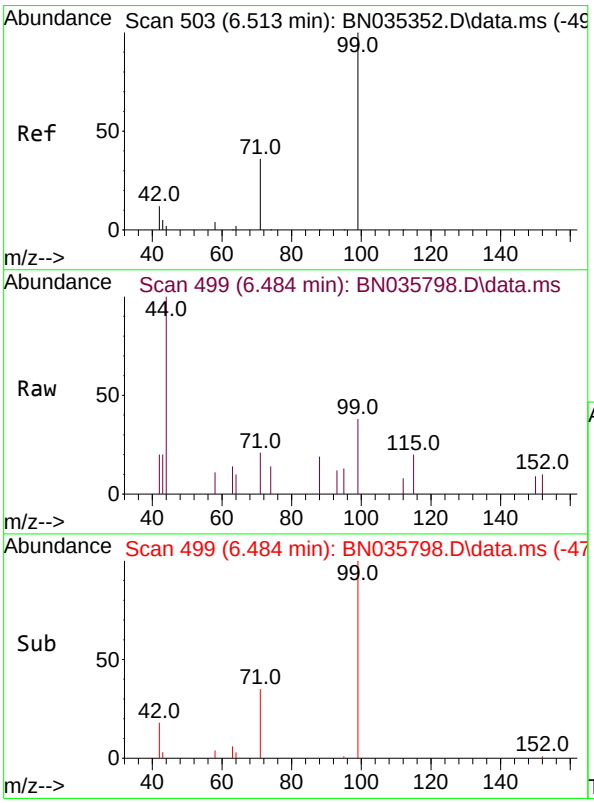
#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:112 Resp: 981

Ion	Ratio	Lower	Upper
112	100		
64	49.9	39.8	59.8
63	27.7	21.0	31.6

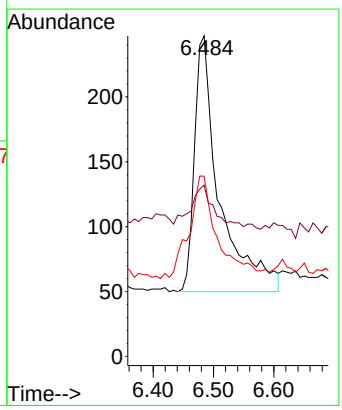


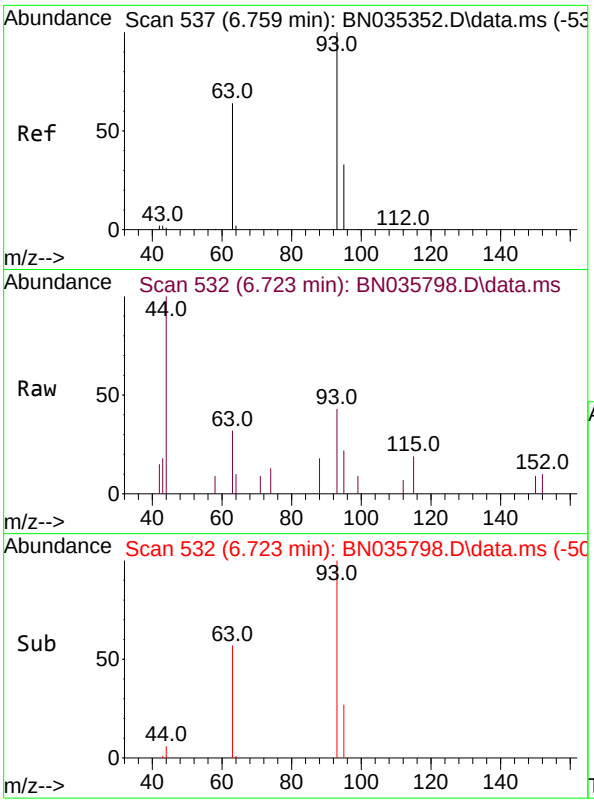


#5
Phenol-d6
Concen: 0.058 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion: 99 Resp: 566

Ion	Ratio	Lower	Upper
99	100		
42	14.8	11.4	17.2
71	46.1	29.3	43.9#



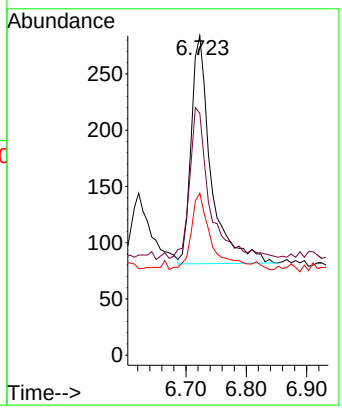


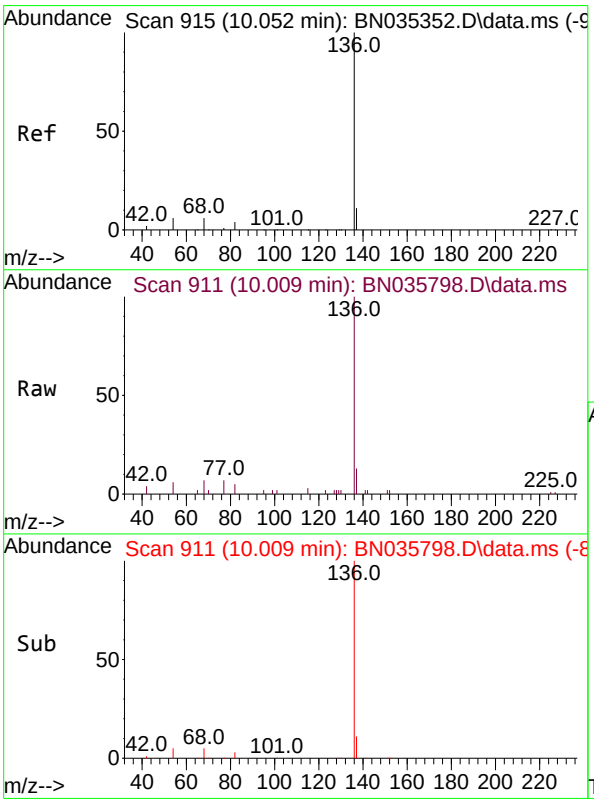
#6
bis(2-Chloroethyl)ether
Concen: 0.056 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion: 93 Resp: 461

Ion	Ratio	Lower	Upper
93	100		
63	64.6	50.4	75.6
95	30.4	25.7	38.5

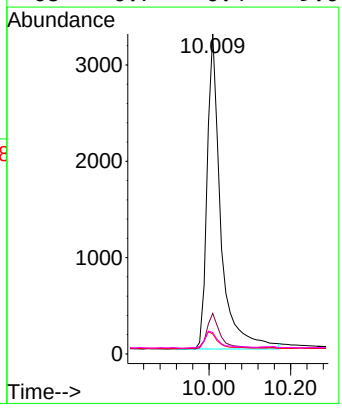


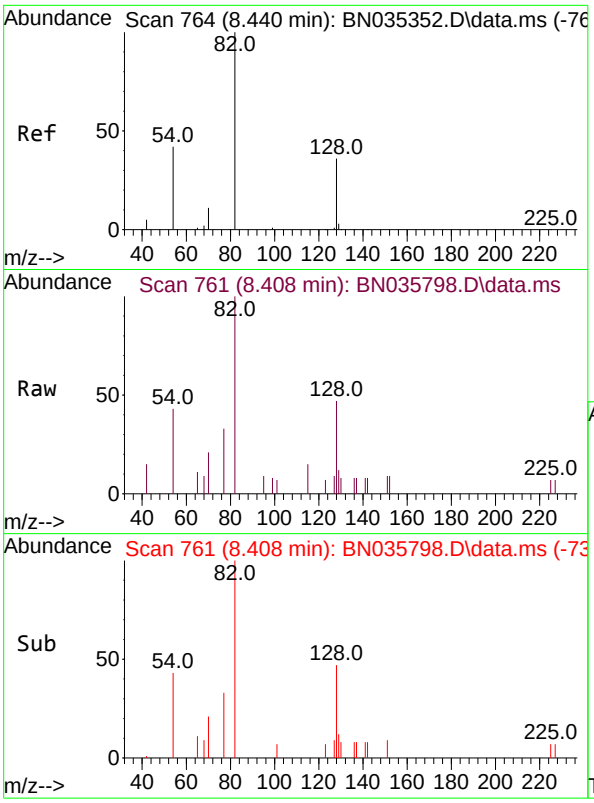


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:136 Resp: 7609

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	6.3	6.1	9.1
68	6.7	6.4	9.6



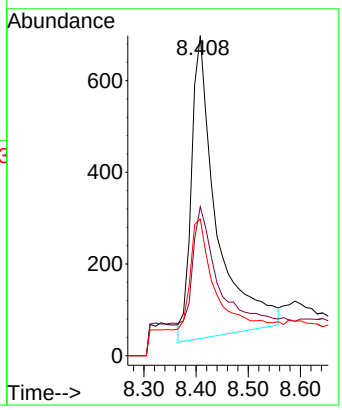


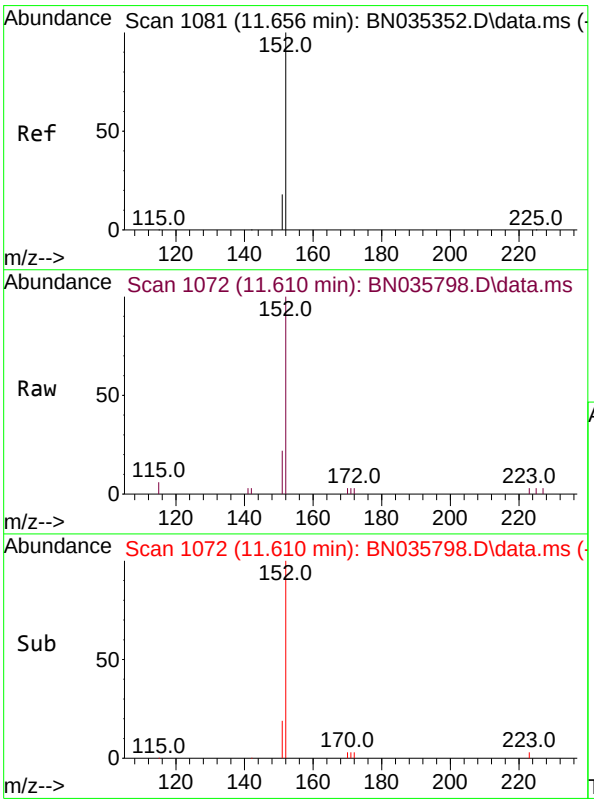
#8
Nitrobenzene-d5
Concen: 0.476 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion: 82 Resp: 2213

Ion	Ratio	Lower	Upper
82	100		
128	46.6	33.4	50.0
54	42.7	36.7	55.1

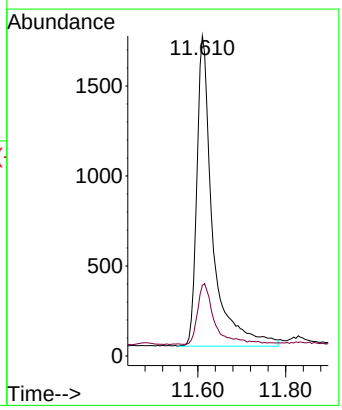


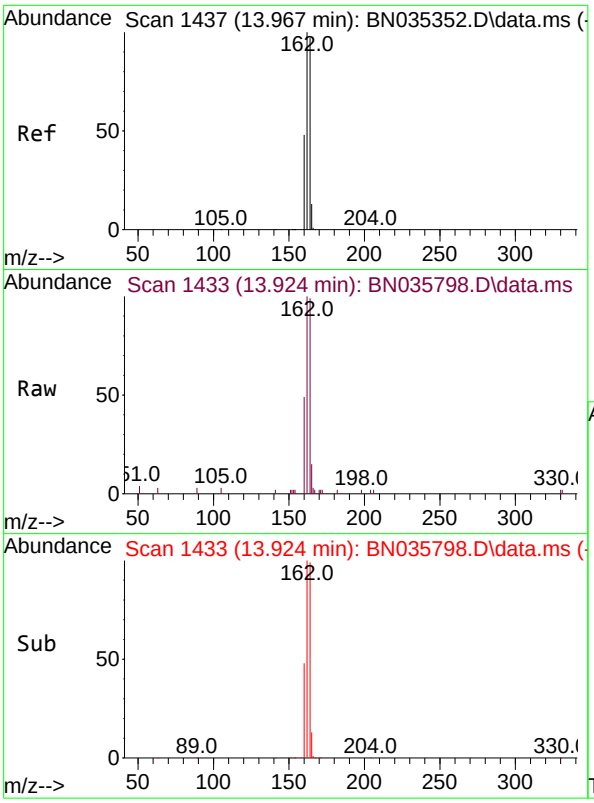


#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:152 Resp: 4327

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0



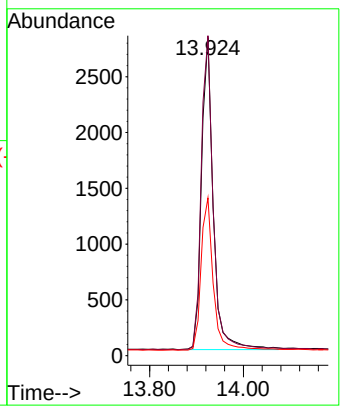


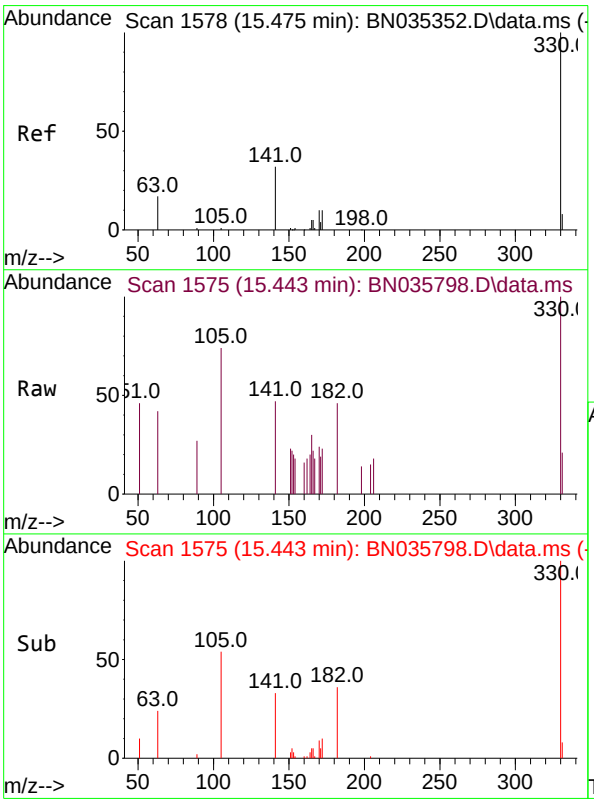
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:164 Resp: 4867

Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.2	123.2
160	49.6	40.1	60.1

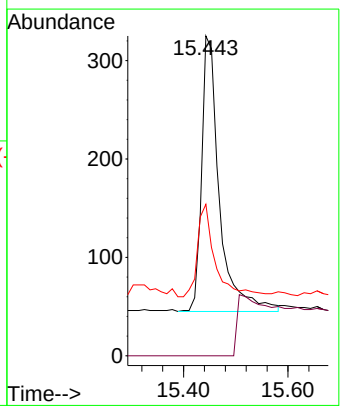


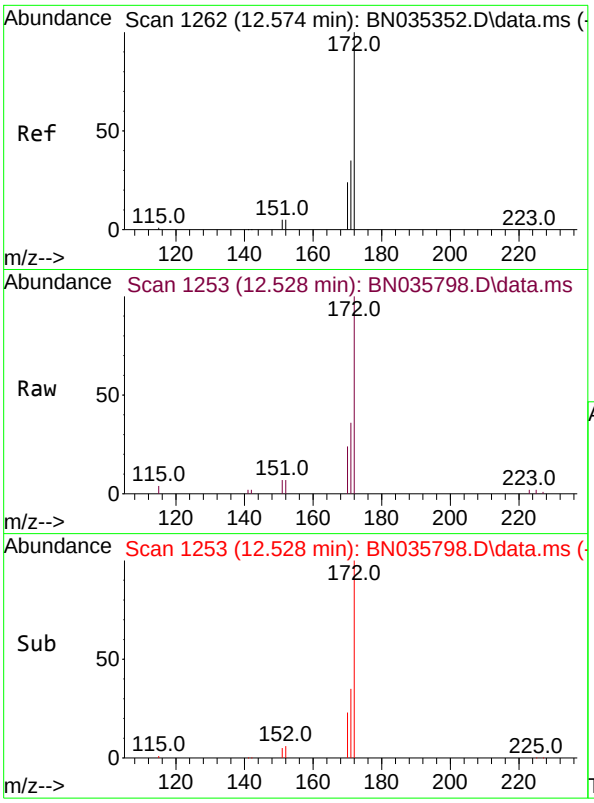


#14
2,4,6-Tribromophenol
Concen: 0.201 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:330 Resp: 695

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.7	26.6	40.0



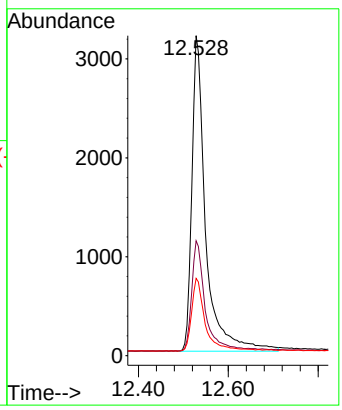


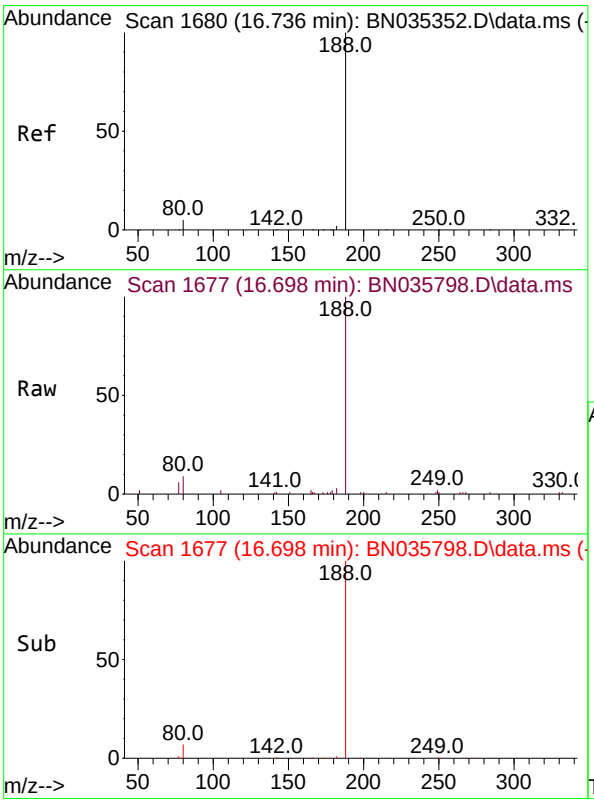
#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:172 Resp: 6796

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.1	19.8	29.8

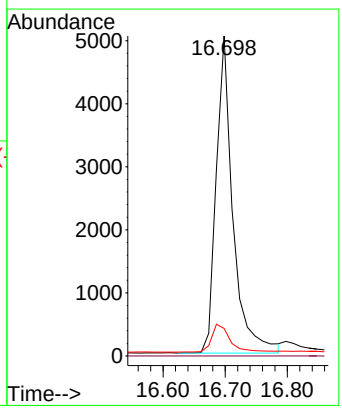


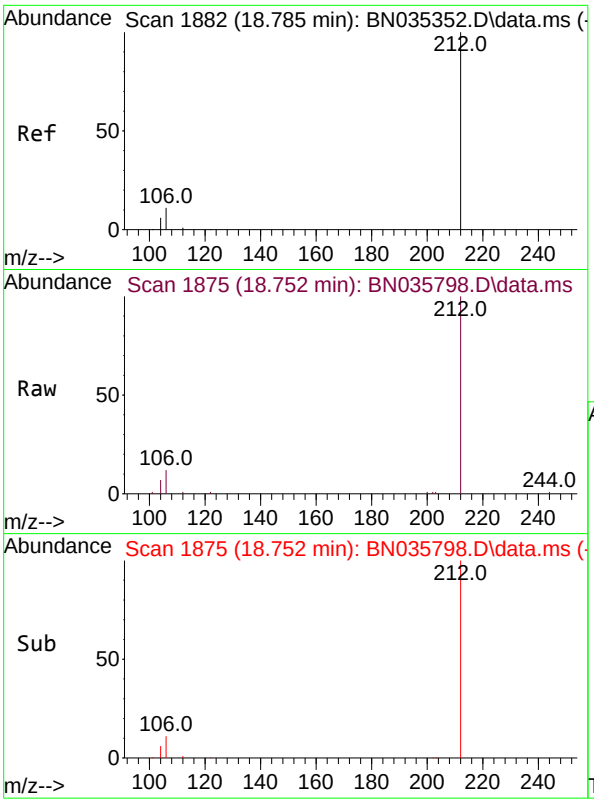


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:188 Resp: 9367

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#



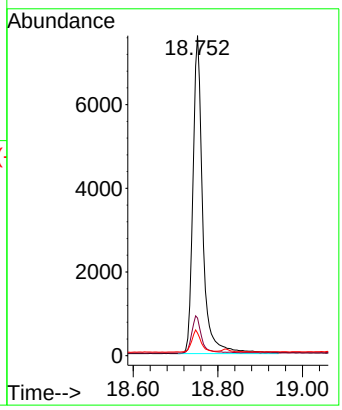


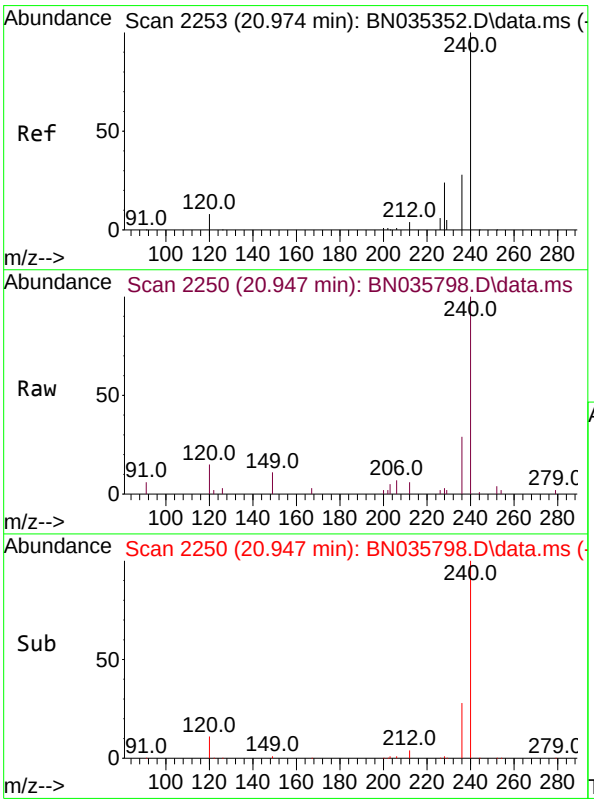
#27
Fluoranthene-d10
Concen: 0.462 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:212 Resp: 12268

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.6	5.3	7.9

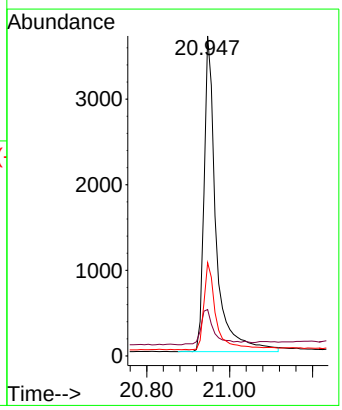


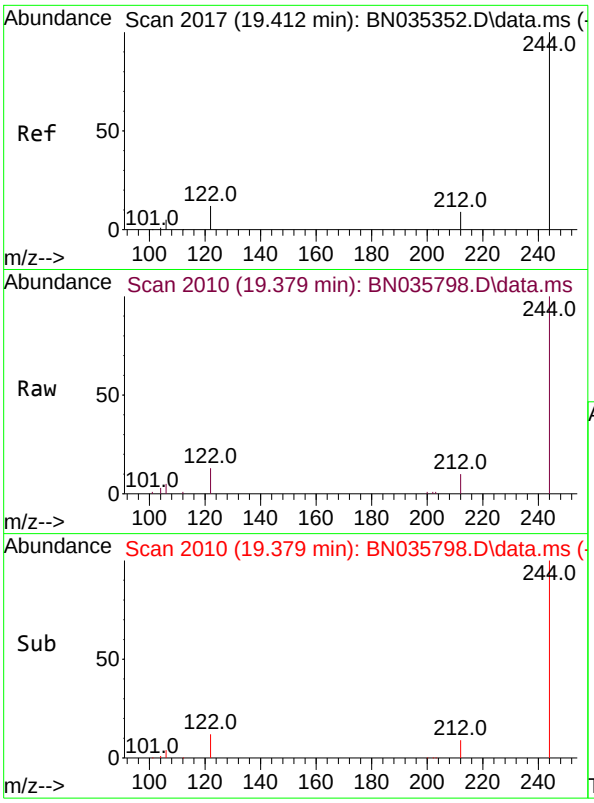


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:240 Resp: 7413

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.2	22.9	34.3



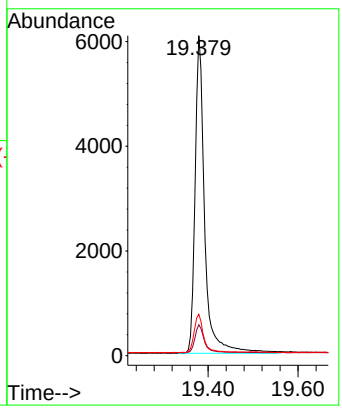


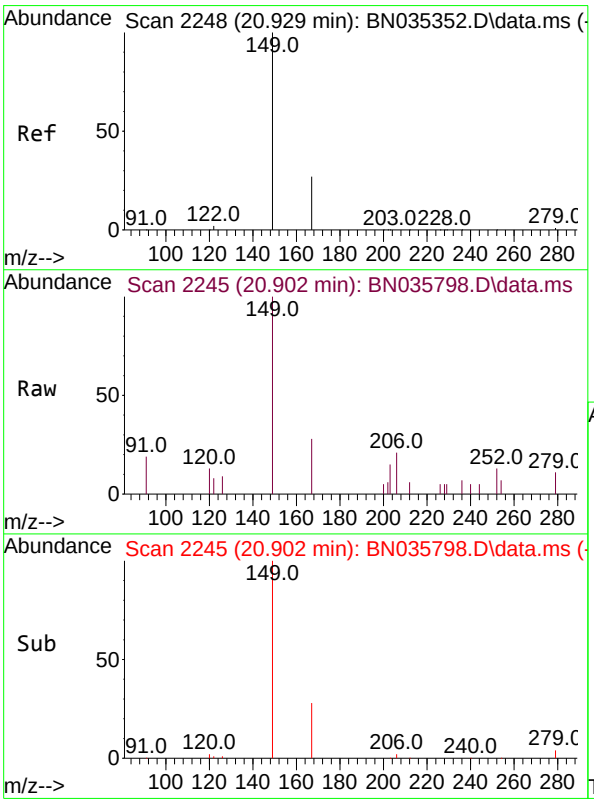
#31
Terphenyl-d14
Concen: 0.617 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:244 Resp: 9017

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	12.9	10.3	15.5

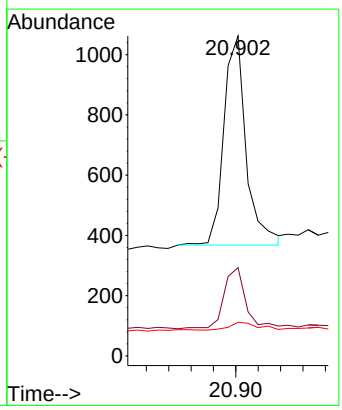


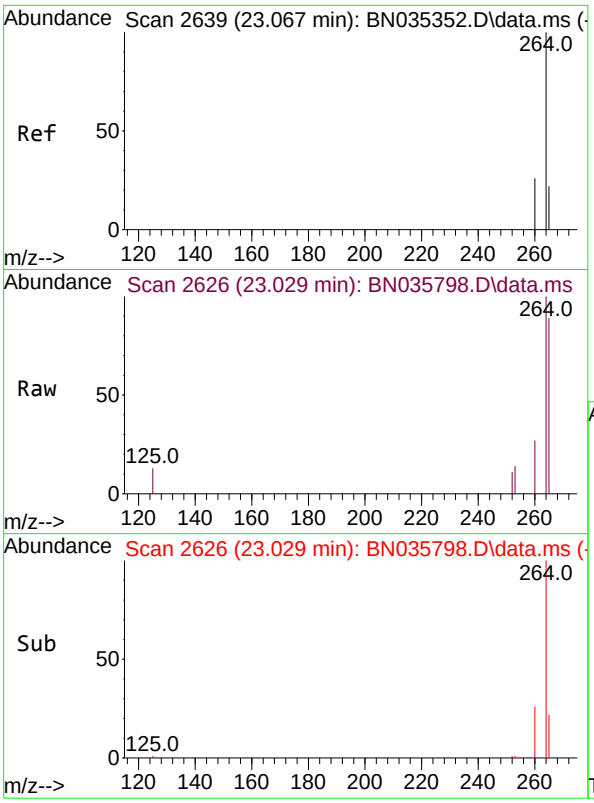


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Tgt Ion:149 Resp: 962

Ion	Ratio	Lower	Upper
149	100		
167	29.8	22.2	33.4
279	4.9	2.7	4.1#



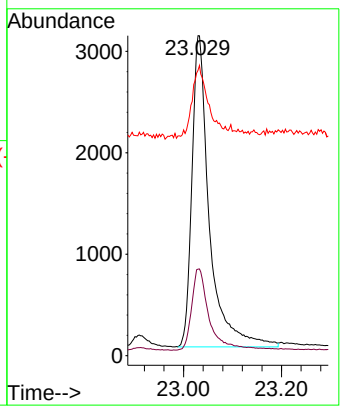


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035798.D
Acq: 24 Dec 2024 00:38

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213

Tgt Ion:264 Resp: 7624

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	89.2	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035799.D
Acq On : 24 Dec 2024 01:14
Operator : RC/JU
Sample : P5281-07
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Quant Time: Dec 24 01:46:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3279	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7719	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4881	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8372	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	8287	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	984	0.120	ng	0.00
5) Phenol-d6	6.477	99	549	0.056	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2813	0.597	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4063	0.336	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	709	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	6383	0.346	ng	-0.01
27) Fluoranthene-d10	18.752	212	12744	0.443	ng	0.00
31) Terphenyl-d14	19.379	244	9635	0.583	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	18372	5.861	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	1405	0.121	ng	# 96

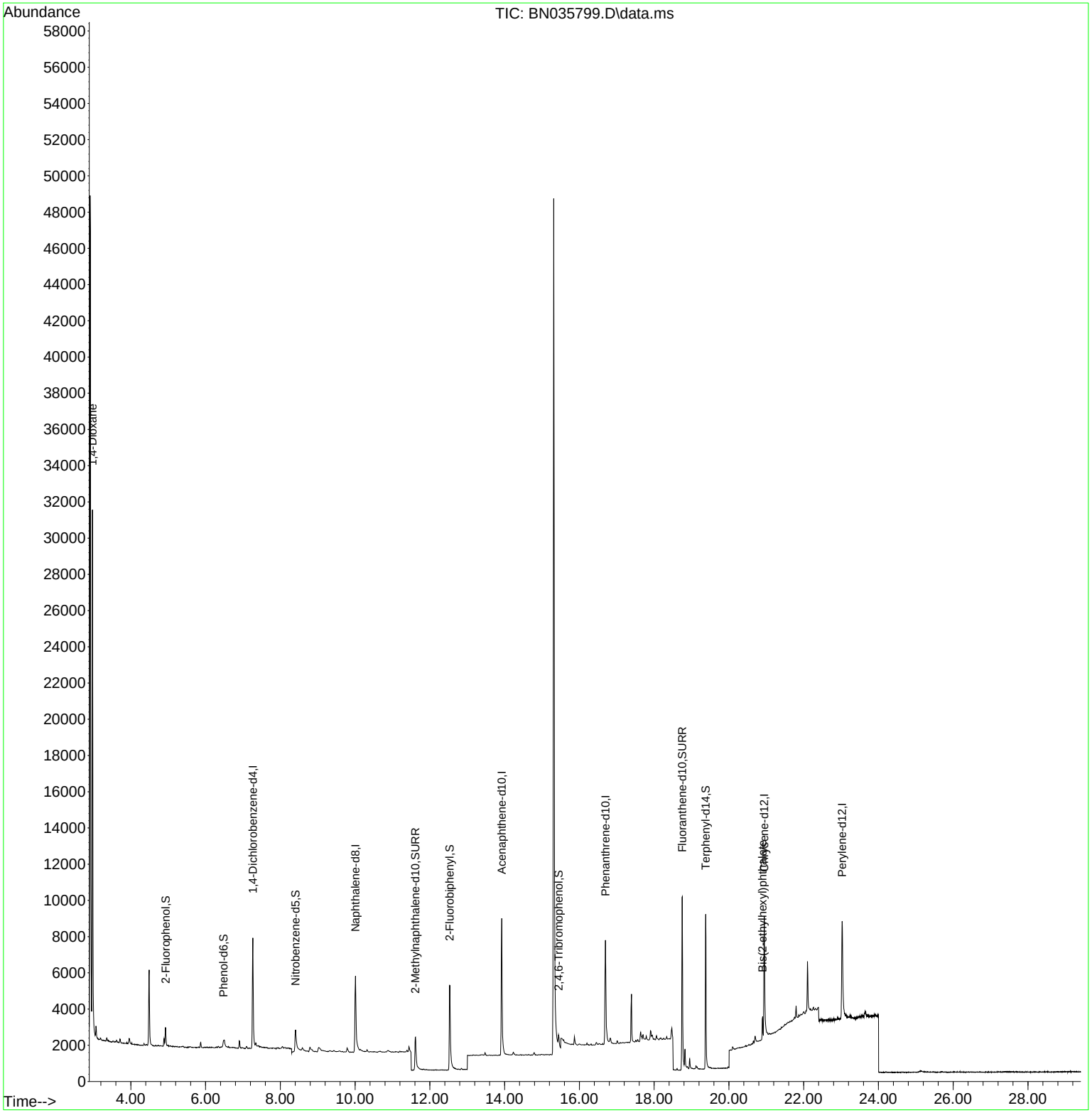
(#) = qualifier out of range (m) = manual integration (+) = signals summed

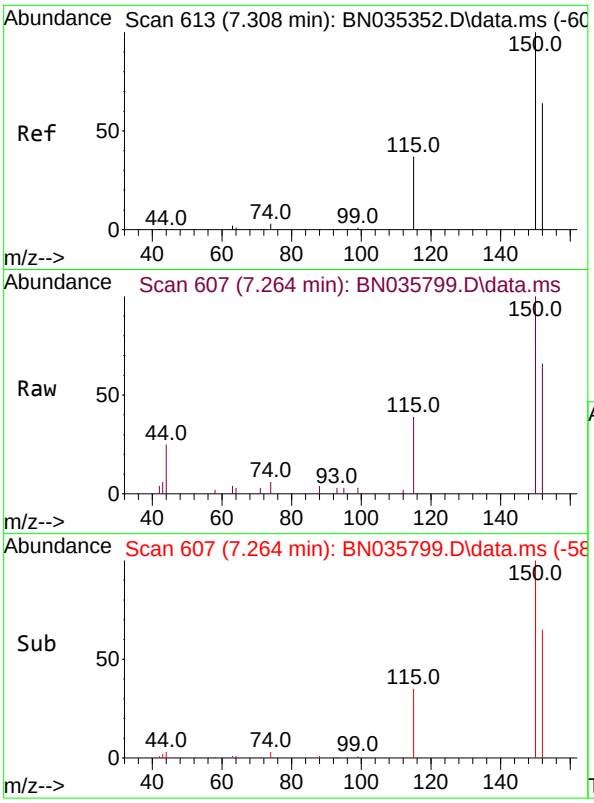
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035799.D
Acq On : 24 Dec 2024 01:14
Operator : RC/JU
Sample : P5281-07
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Quant Time: Dec 24 01:46:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



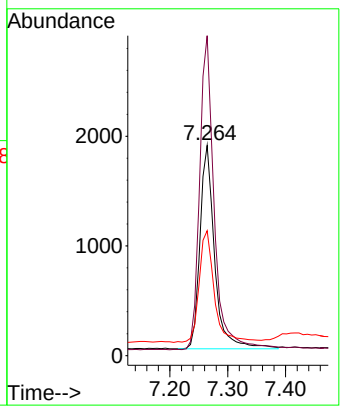


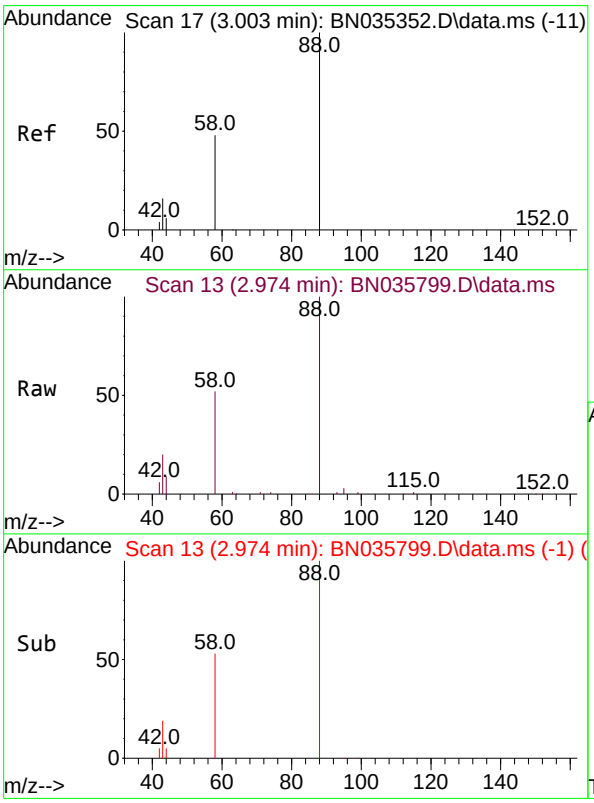
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:152 Resp: 3279

Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.0	186.0
115	59.4	49.6	74.4

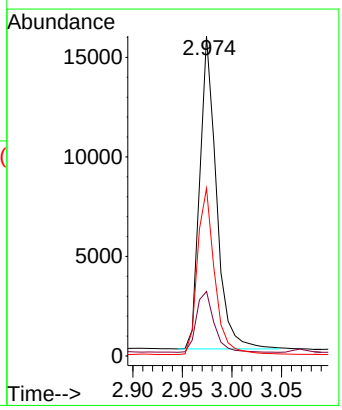


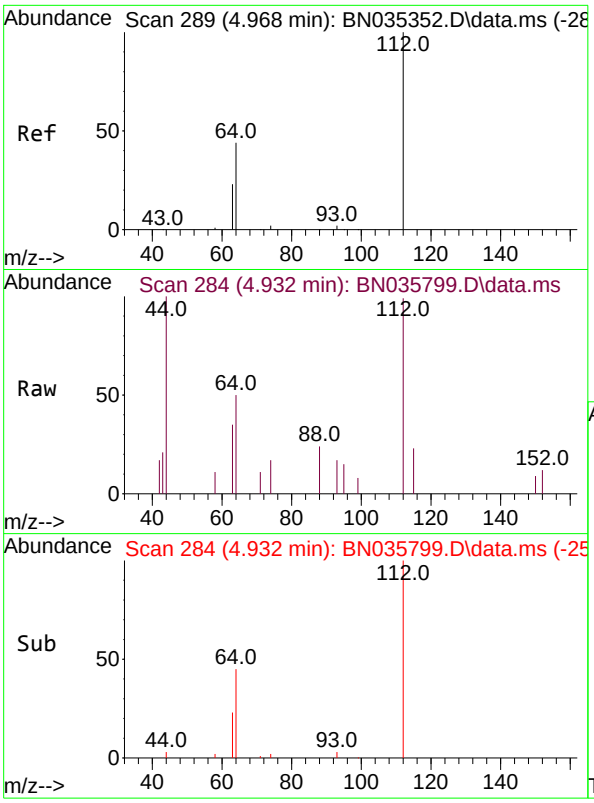


#2
1,4-Dioxane
Concen: 5.861 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion: 88 Resp: 18372

Ion	Ratio	Lower	Upper
88	100		
43	20.9	17.2	25.8
58	54.9	44.5	66.7



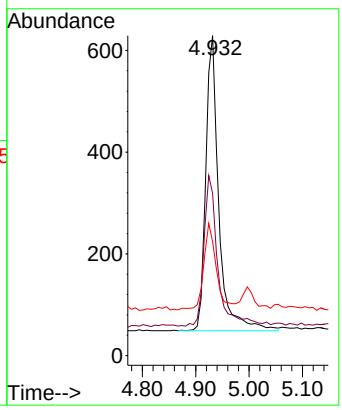


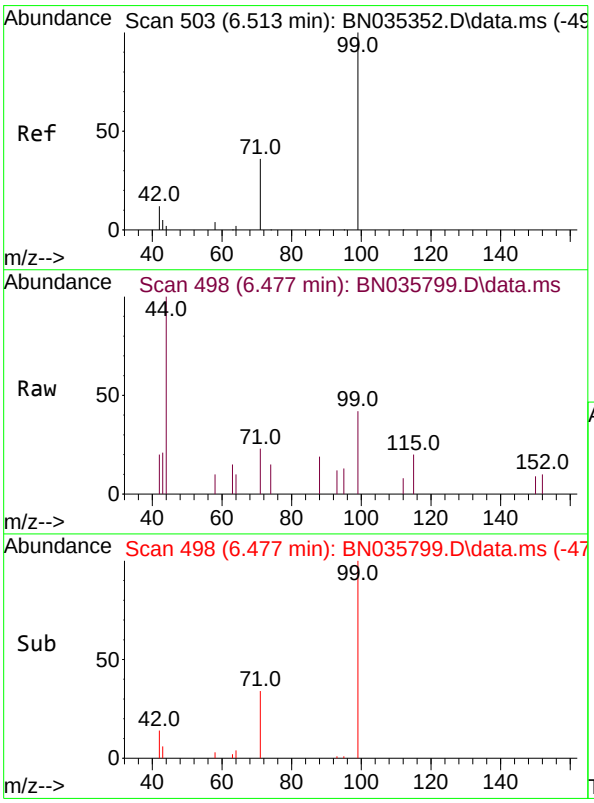
#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:112 Resp: 984

Ion	Ratio	Lower	Upper
112	100		
64	54.6	39.8	59.8
63	28.0	21.0	31.6

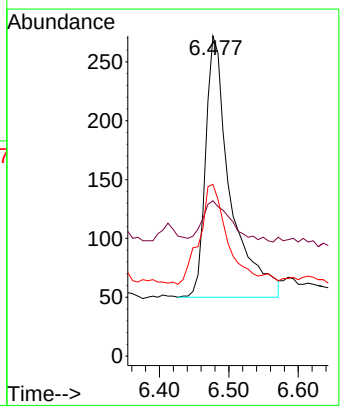


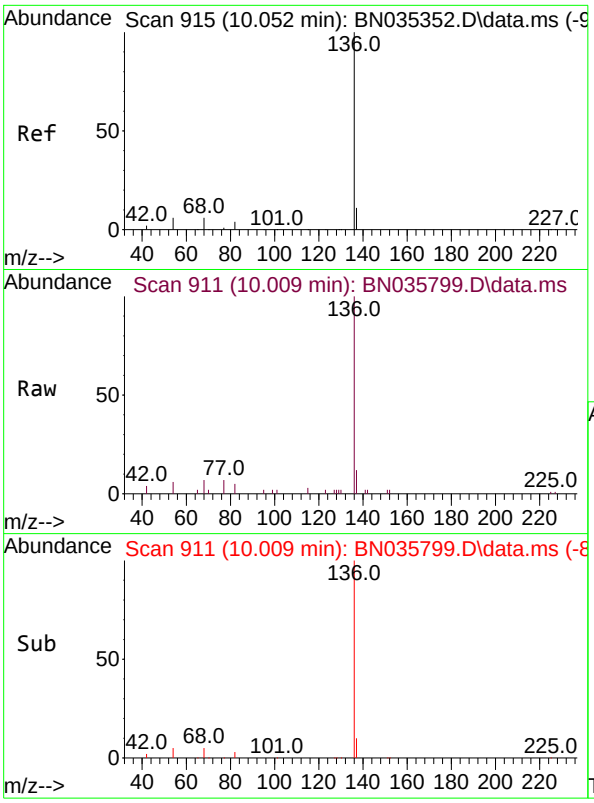


#5
Phenol-d6
Concen: 0.056 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion: 99 Resp: 549

Ion	Ratio	Lower	Upper
99	100		
42	18.9	11.4	17.2#
71	43.0	29.3	43.9



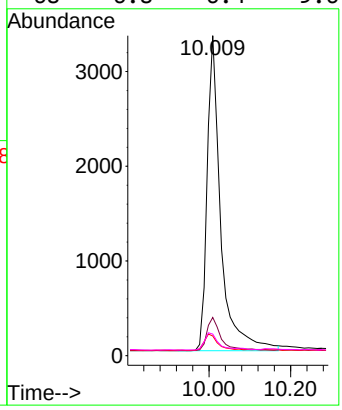


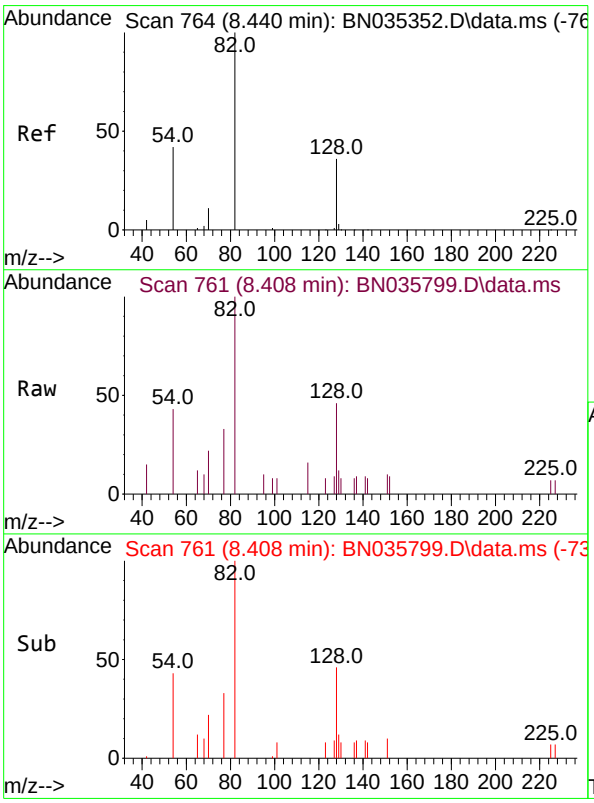
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:136 Resp: 7719

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.2	6.1	9.1
68	6.8	6.4	9.6

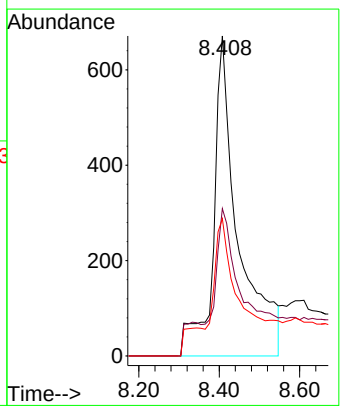


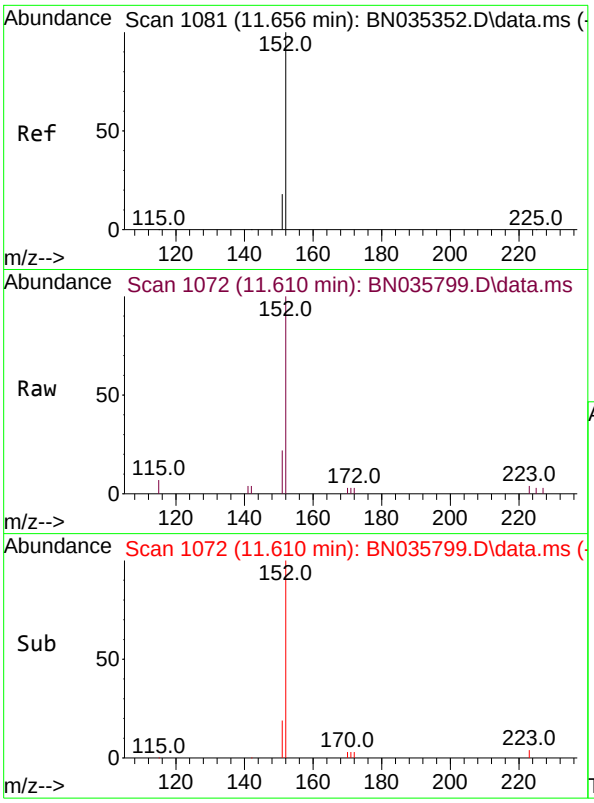


#8
Nitrobenzene-d5
Concen: 0.597 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion: 82 Resp: 2813

Ion	Ratio	Lower	Upper
82	100		
128	46.1	33.4	50.0
54	42.9	36.7	55.1



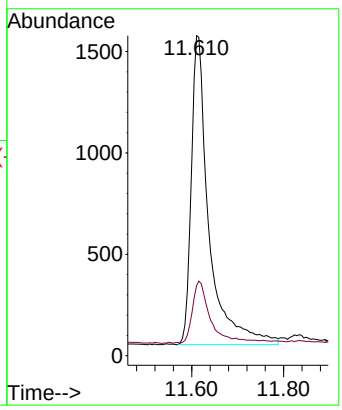


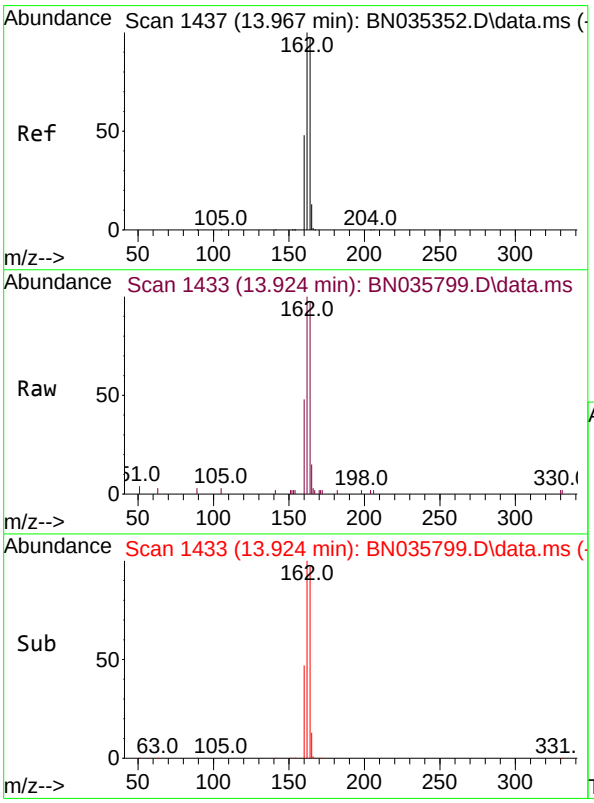
#11
2-Methylnaphthalene-d10
Concen: 0.336 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:152 Resp: 4063

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

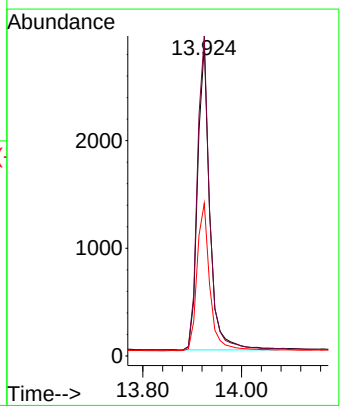


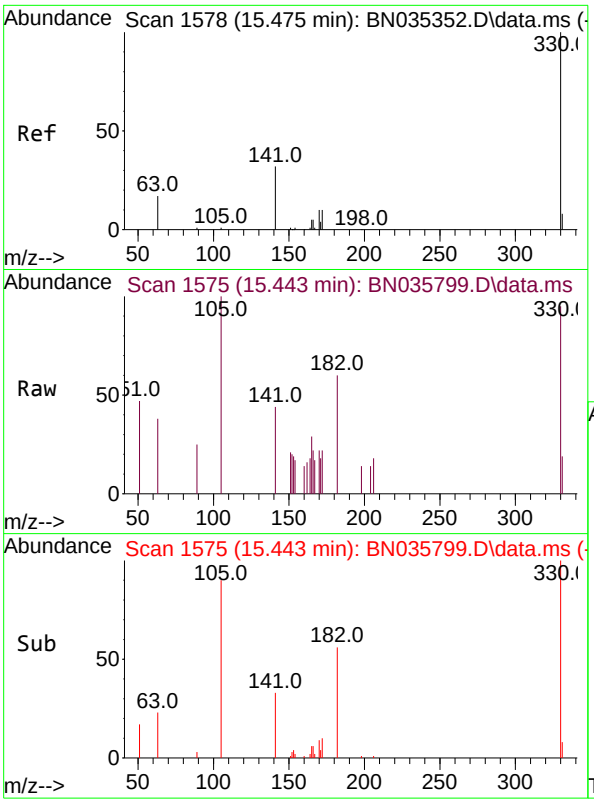


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:164 Resp: 4881

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	49.1	40.1	60.1



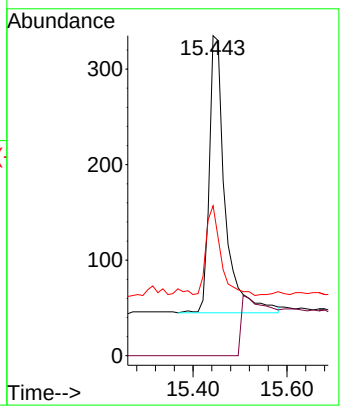


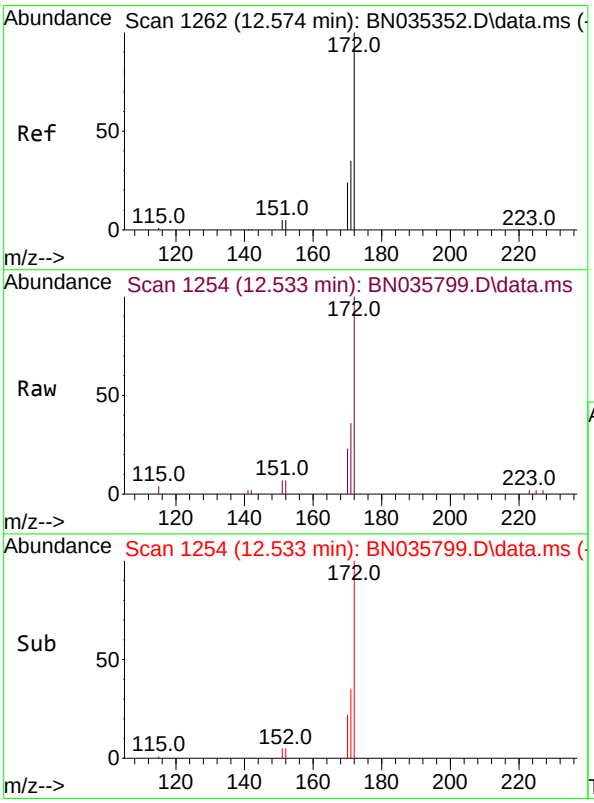
#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:330 Resp: 709

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.8	26.6	40.0

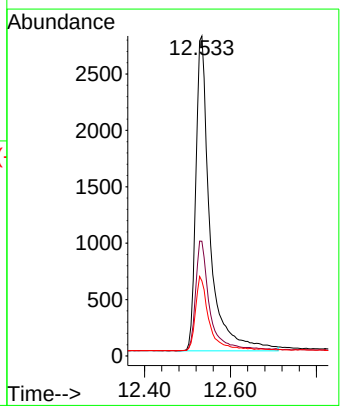


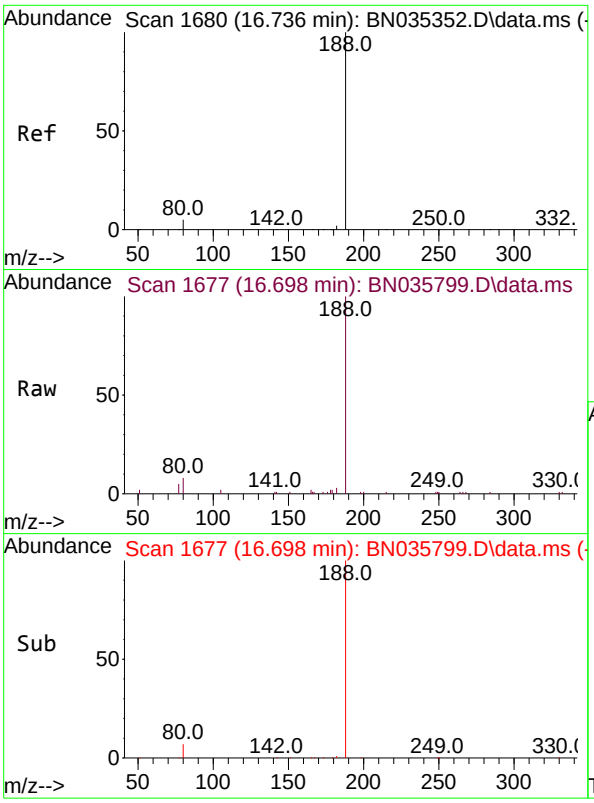


#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.533 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:172 Resp: 6383

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.5	19.8	29.8



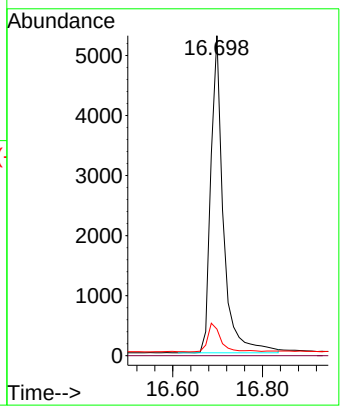


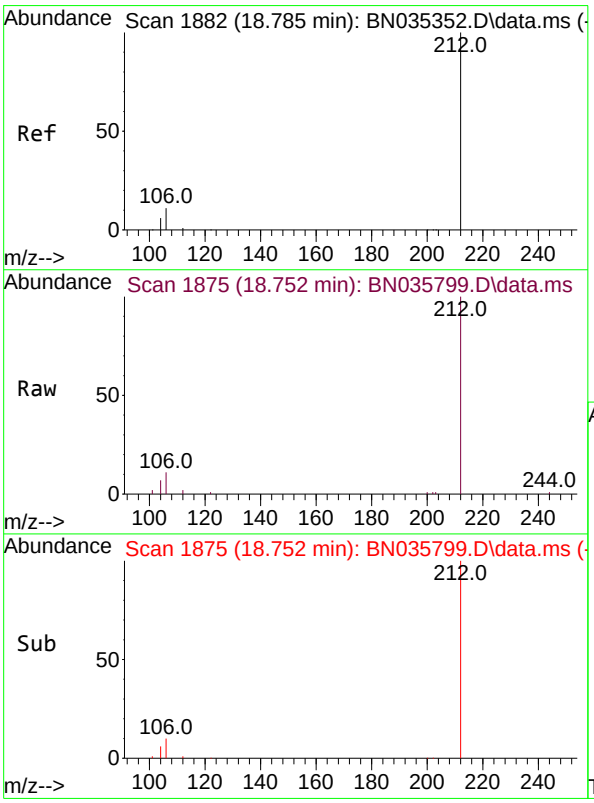
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:188 Resp: 10153

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.6	6.8#

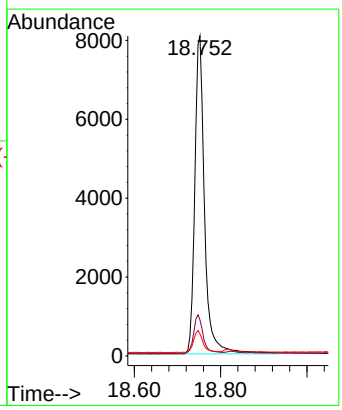


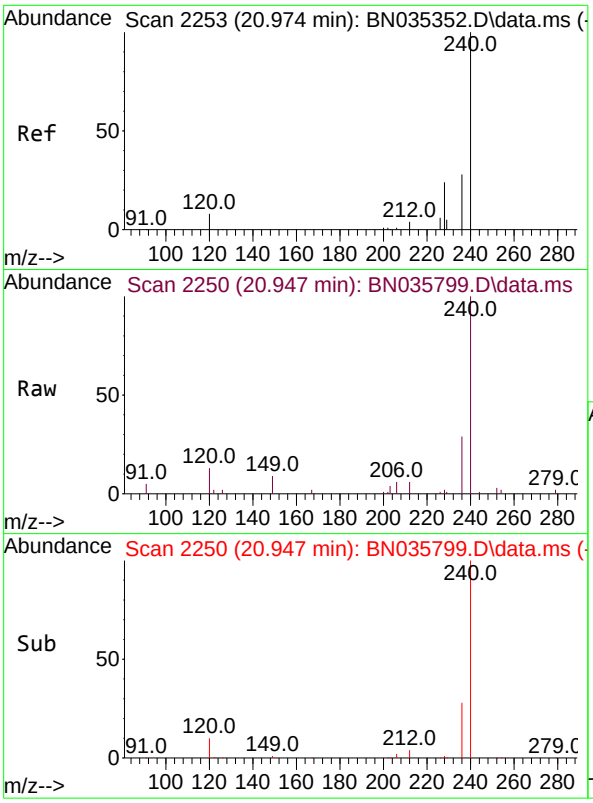


#27
Fluoranthene-d10
Concen: 0.443 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:212 Resp: 12744

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.5	5.3	7.9



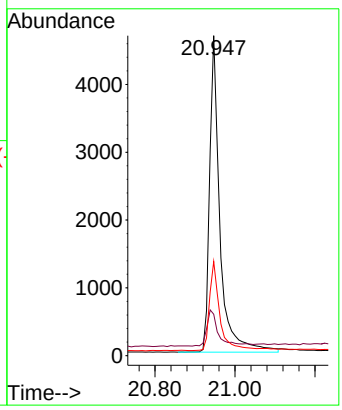


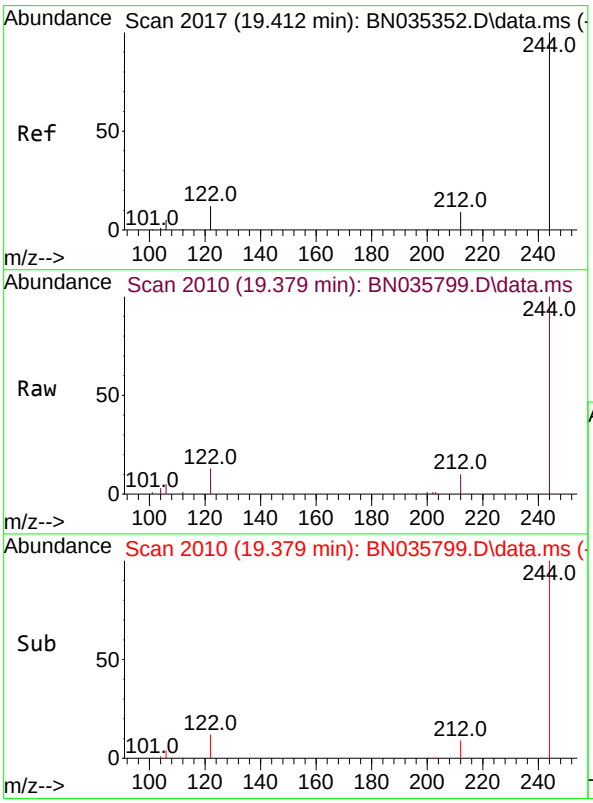
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:240 Resp: 8372

Ion	Ratio	Lower	Upper
240	100		
120	12.9	7.9	11.9#
236	29.5	22.9	34.3

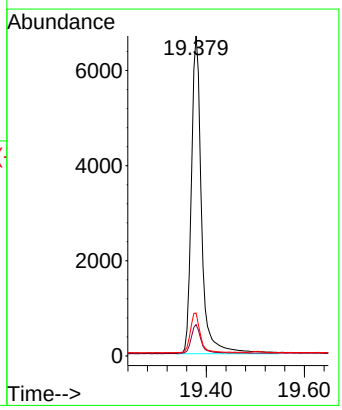


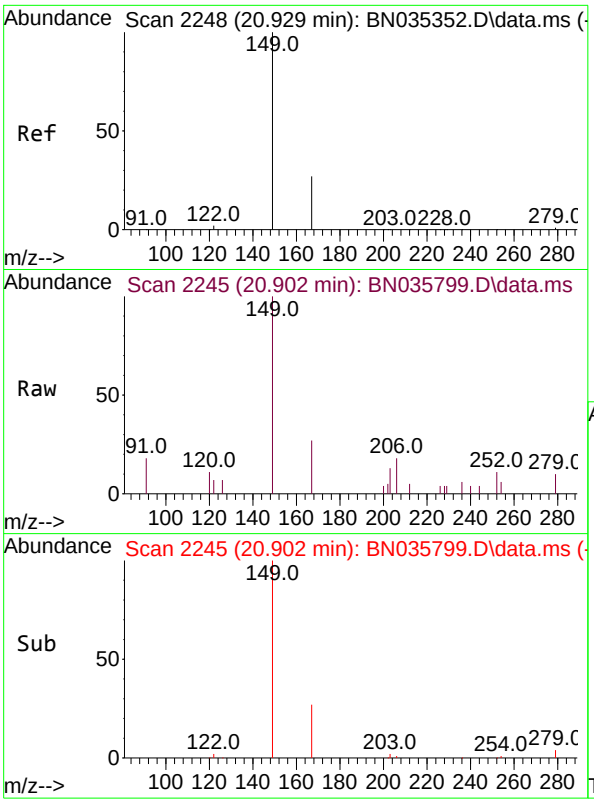


#31
Terphenyl-d14
Concen: 0.583 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:244 Resp: 9635

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	13.4	10.3	15.5



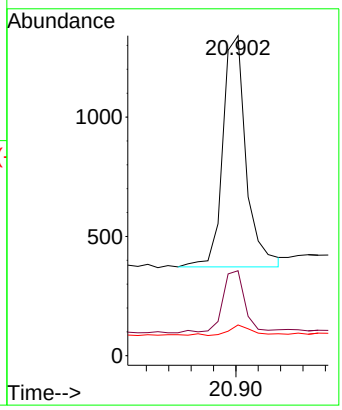


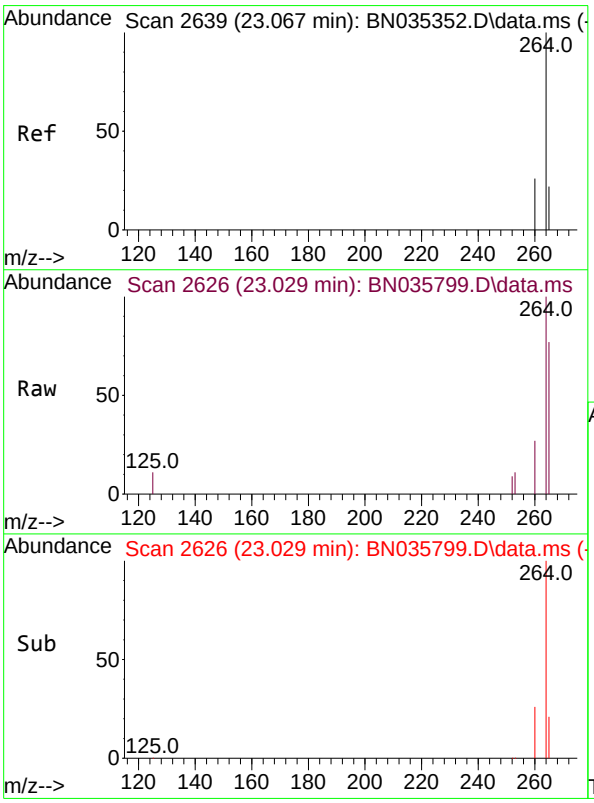
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213

Tgt Ion:149 Resp: 1405

Ion	Ratio	Lower	Upper
149	100		
167	25.7	22.2	33.4
279	4.6	2.7	4.1#

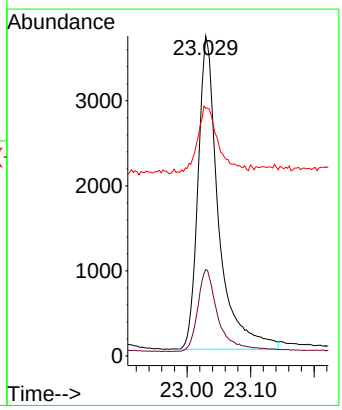




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035799.D
Acq: 24 Dec 2024 01:14

Tgt Ion:264 Resp: 8287

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	77.4	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035800.D
Acq On : 24 Dec 2024 01:49
Operator : RC/JU
Sample : P5281-08
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Quant Time: Dec 24 02:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3456	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8002	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4899	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9904	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7907	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7434	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1105	0.128	ng	0.00
5) Phenol-d6	6.484	99	585	0.056	ng	0.00
8) Nitrobenzene-d5	8.408	82	2365	0.484	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4603	0.368	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	685	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	7146	0.386	ng	-0.01
27) Fluoranthene-d10	18.752	212	12579	0.448	ng	0.00
31) Terphenyl-d14	19.379	244	9156	0.587	ng	0.00
Target Compounds						Qvalue
32) Benzo(a)anthracene	20.938	228	660	0.024	ng	# 74
33) Chrysene	20.983	228	756	0.027	ng	# 80
34) Bis(2-ethylhexyl)phtha...	20.902	149	1232	0.113	ng	96
37) Benzo(b)fluoranthene	22.436	252	1085	0.040	ng	# 1
38) Benzo(k)fluoranthene	22.436	252	1085	0.041	ng	# 1

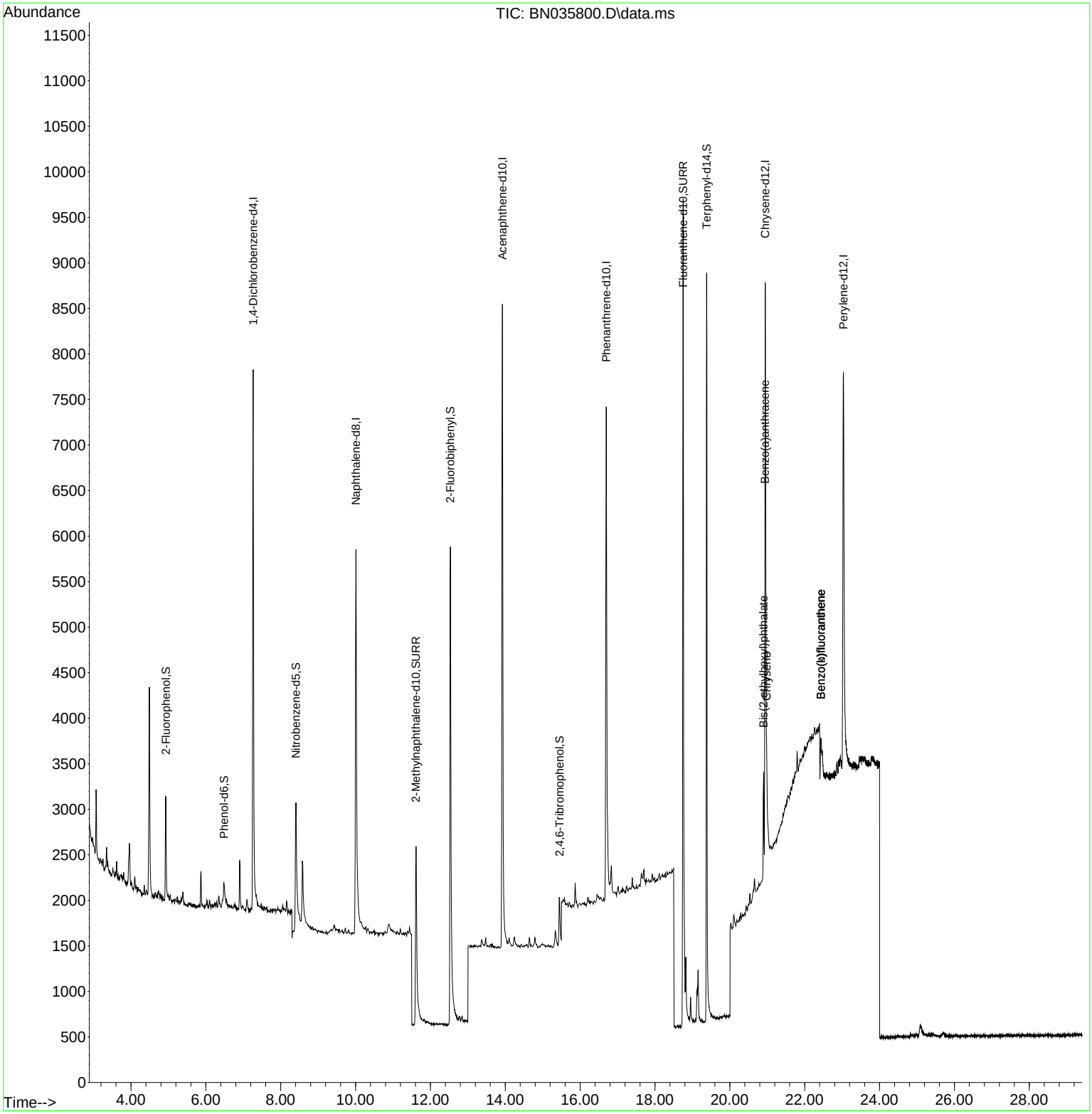
(#) = qualifier out of range (m) = manual integration (+) = signals summed

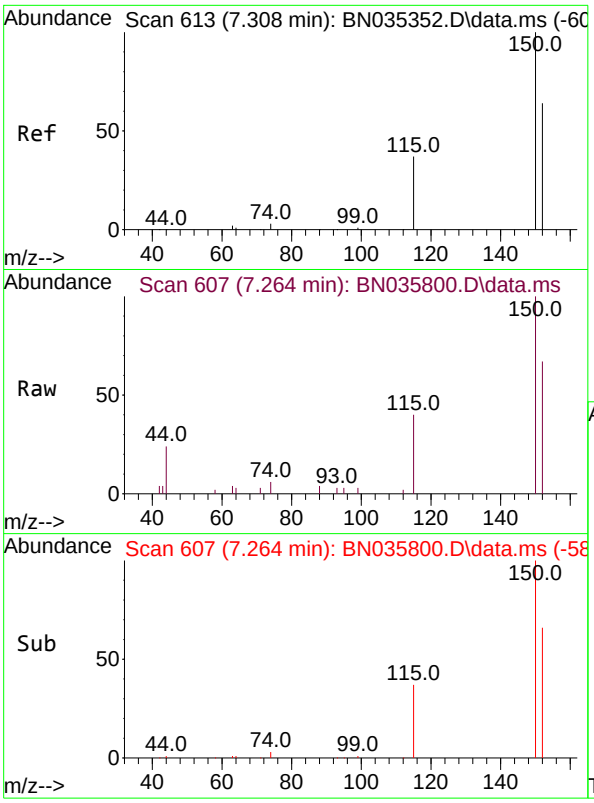
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035800.D
Acq On : 24 Dec 2024 01:49
Operator : RC/JU
Sample : P5281-08
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Quant Time: Dec 24 02:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



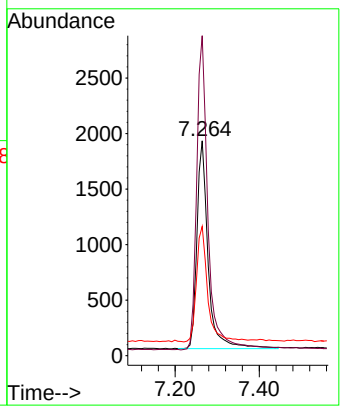


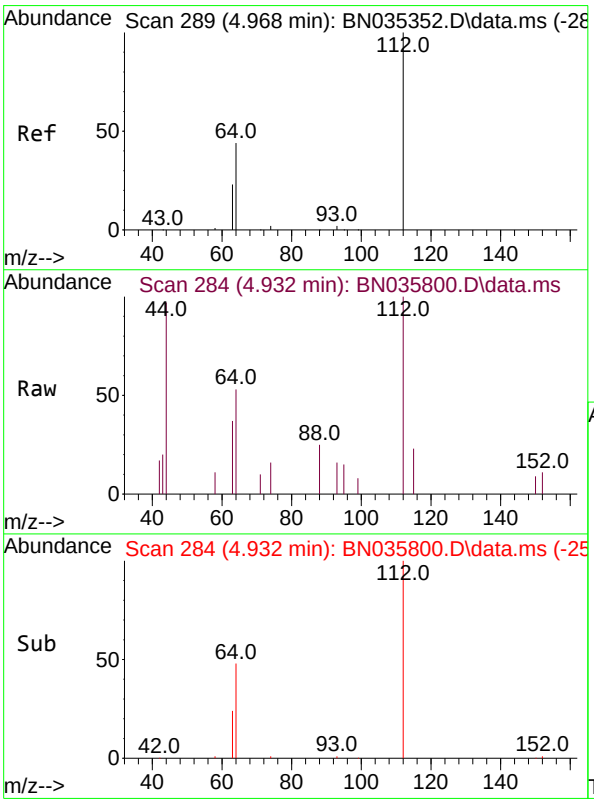
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:152 Resp: 3456

Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	60.2	49.6	74.4

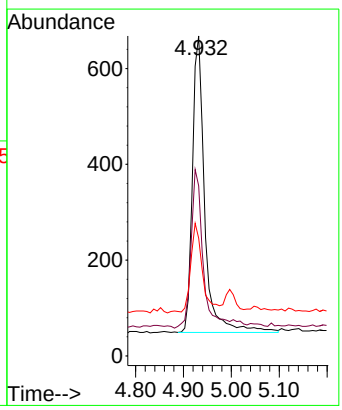


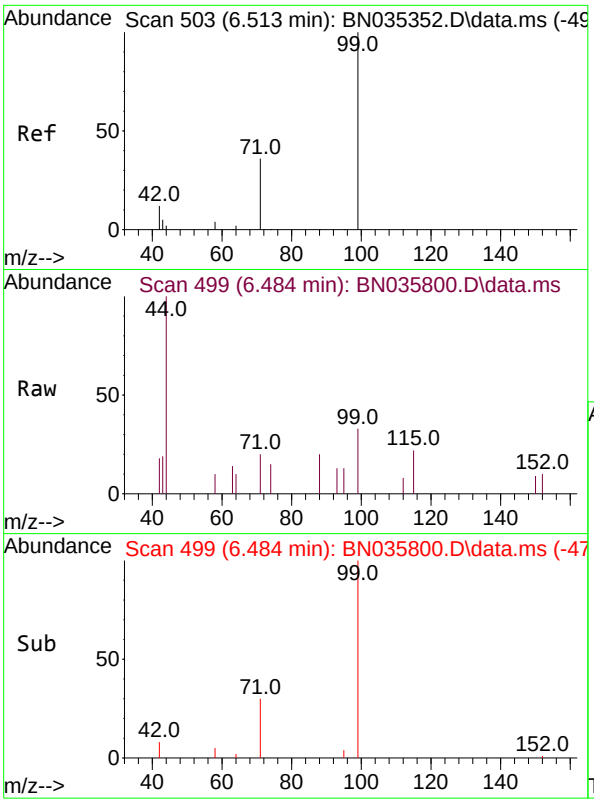


#4
2-Fluorophenol
Concen: 0.128 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:112 Resp: 1105

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	29.0	21.0	31.6



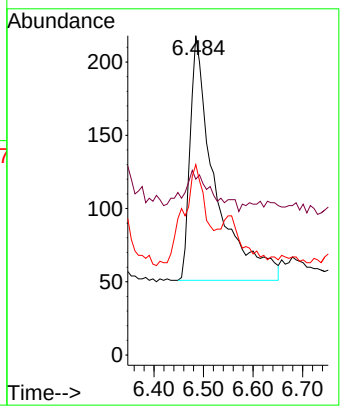


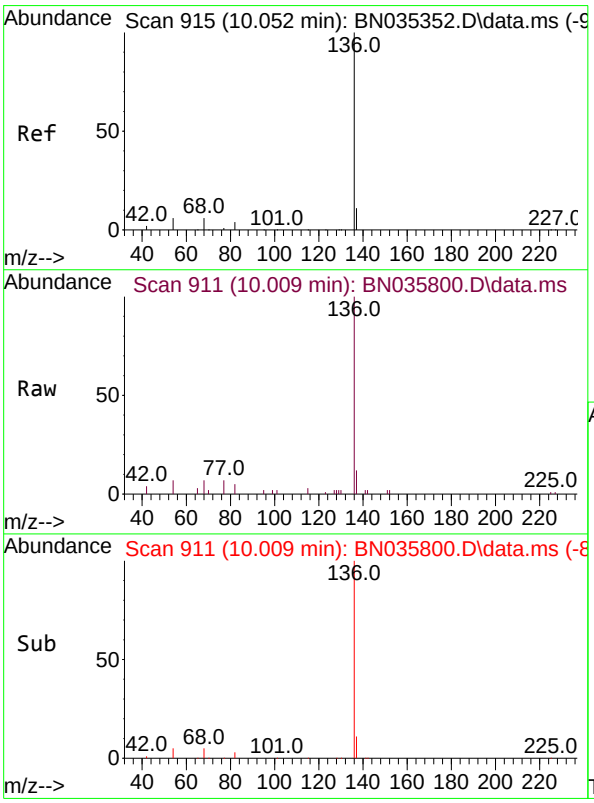
#5
Phenol-d6
Concen: 0.056 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion: 99 Resp: 585

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.9	29.3	43.9

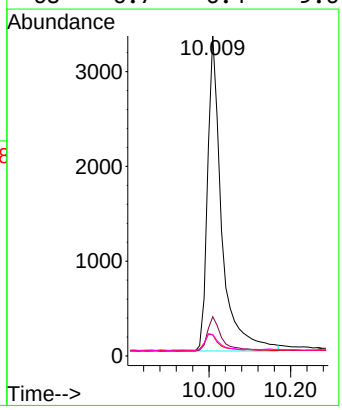


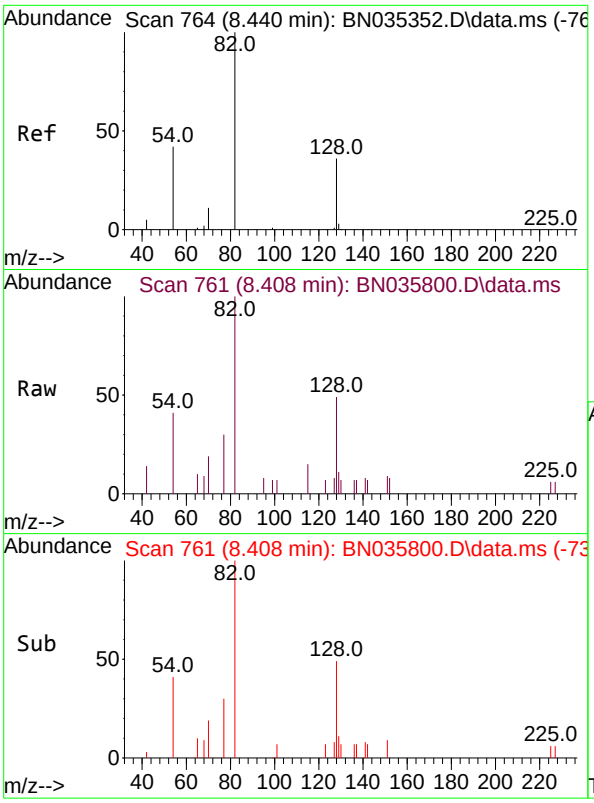


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:136 Resp: 8002

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	6.5	6.1	9.1
68	6.7	6.4	9.6



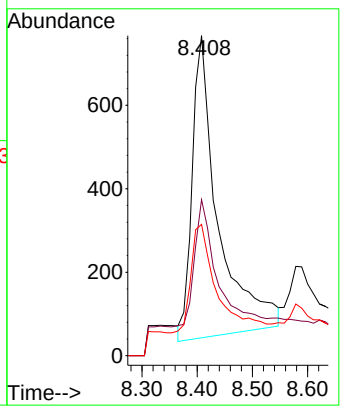


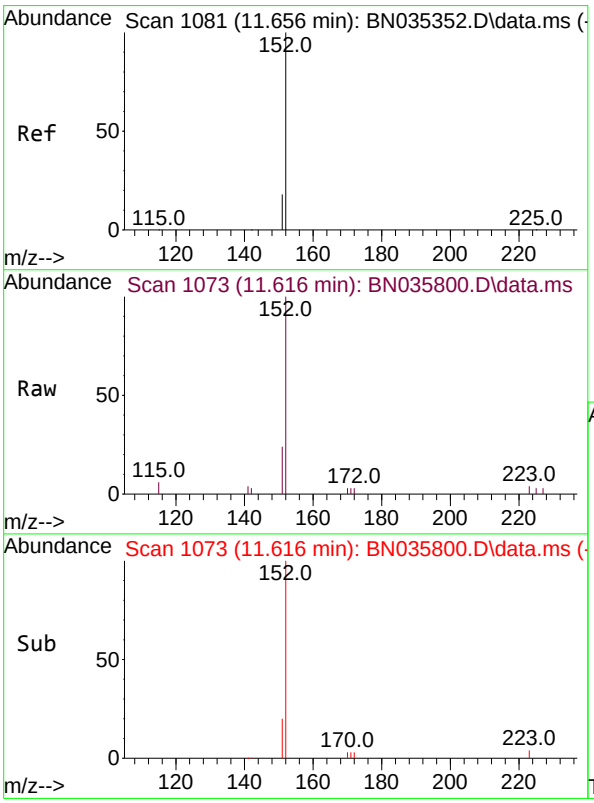
#8
Nitrobenzene-d5
Concen: 0.484 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion: 82 Resp: 2365

Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	41.1	36.7	55.1

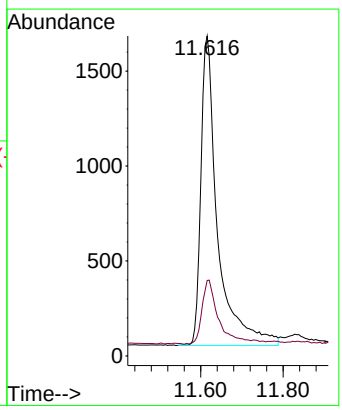


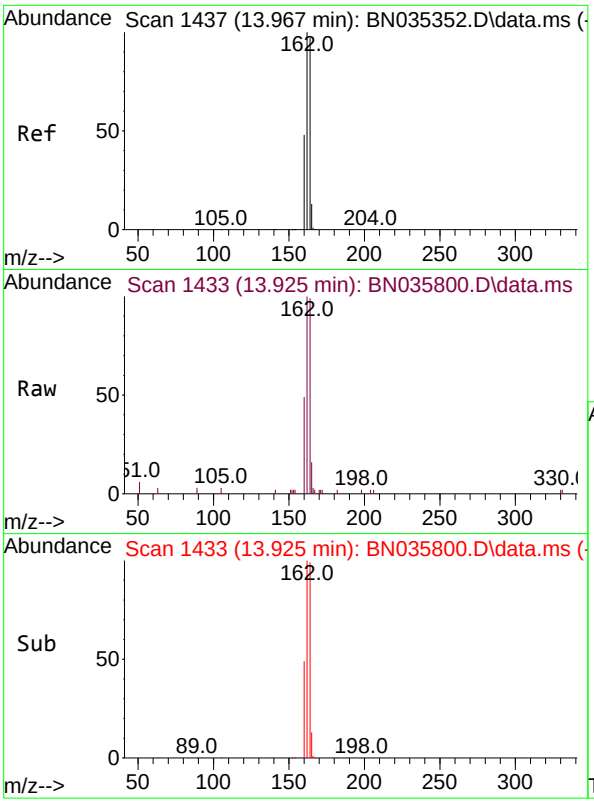


#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:152 Resp: 4603

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



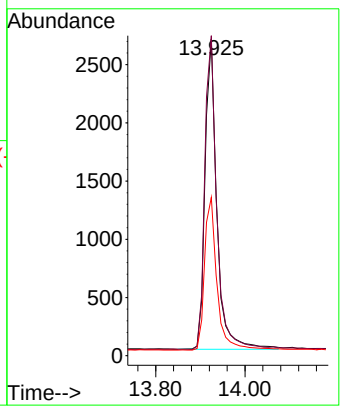


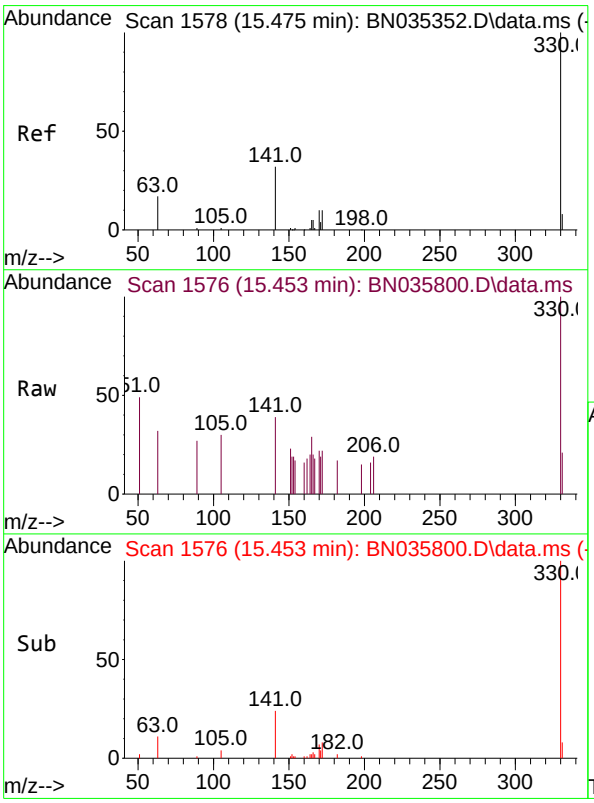
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:164 Resp: 4899

Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.2	123.2
160	49.9	40.1	60.1

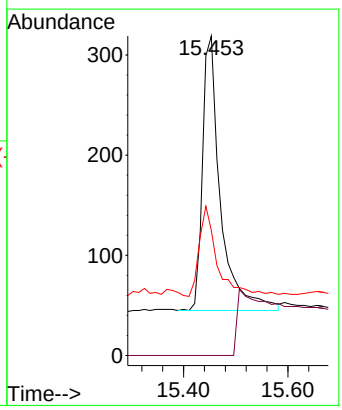


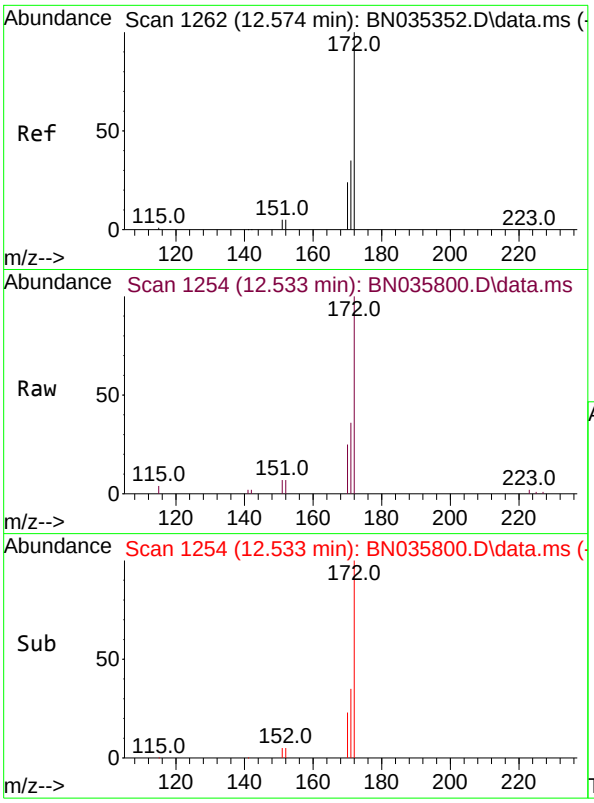


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:330 Resp: 685

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0



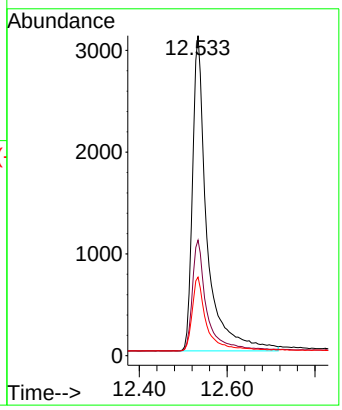


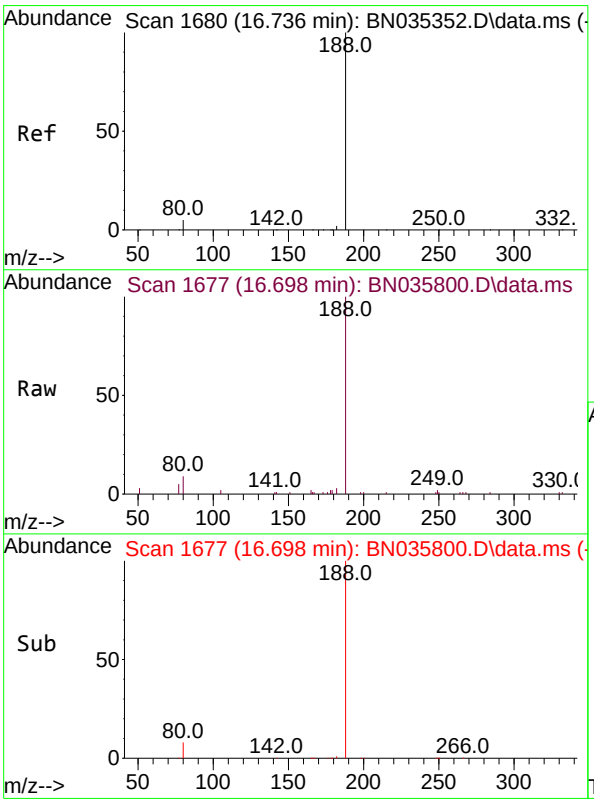
#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:172 Resp: 7146

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.6	19.8	29.8

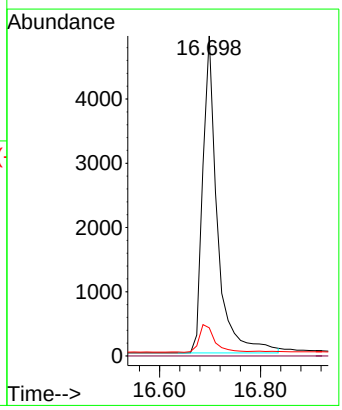


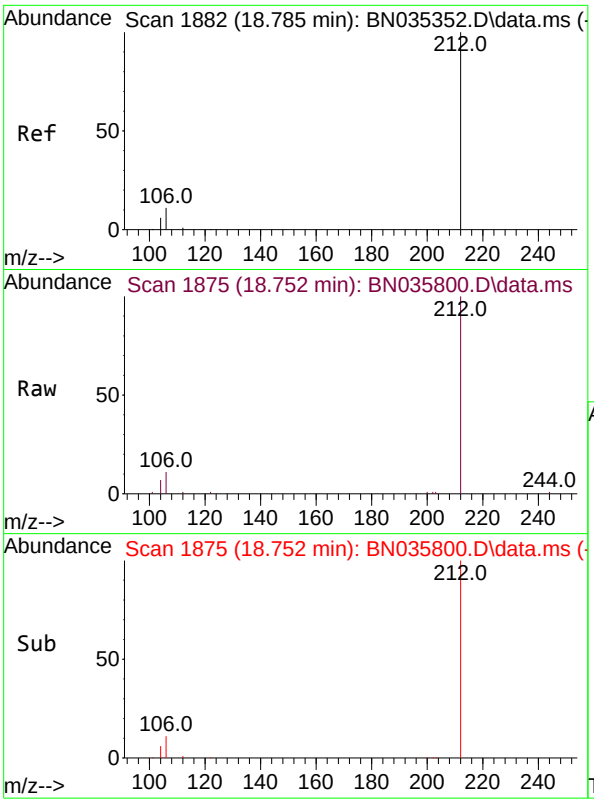


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#



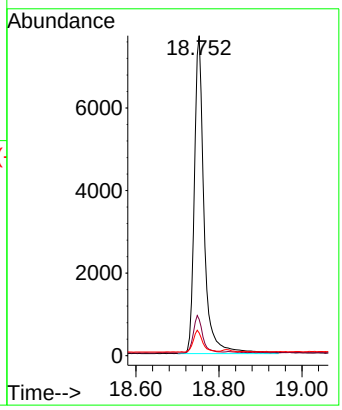


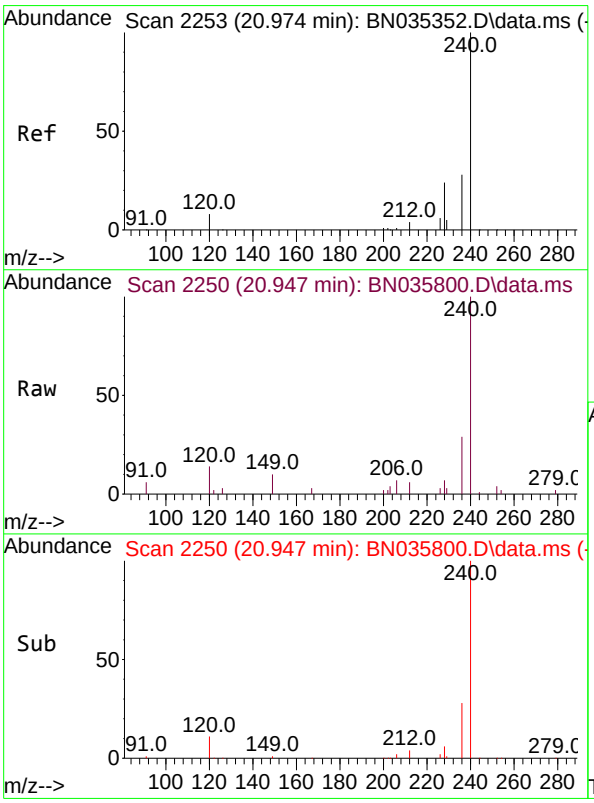
#27
Fluoranthene-d10
Concen: 0.448 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:212 Resp: 12579

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9

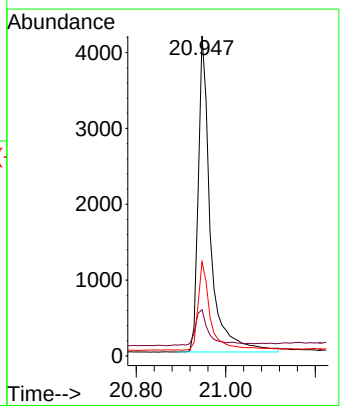


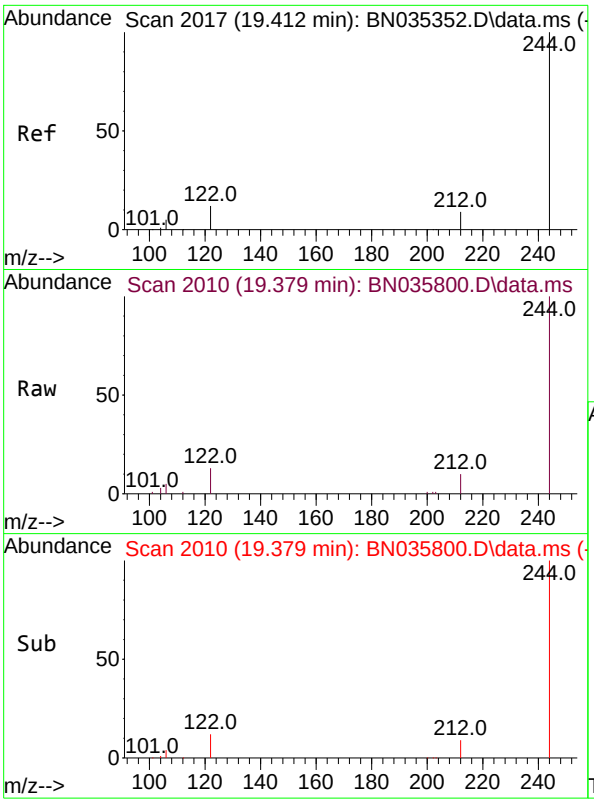


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:240 Resp: 7907

Ion	Ratio	Lower	Upper
240	100		
120	14.4	7.9	11.9#
236	29.5	22.9	34.3



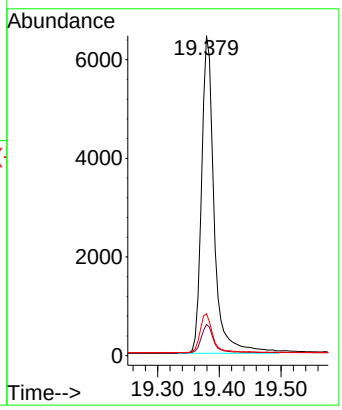


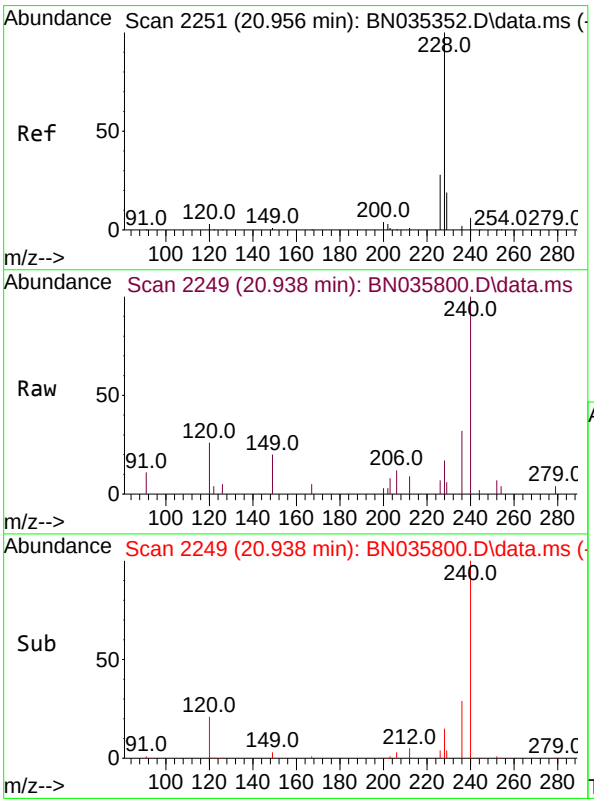
#31
Terphenyl-d14
Concen: 0.587 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:244 Resp: 9156

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	13.1	10.3	15.5

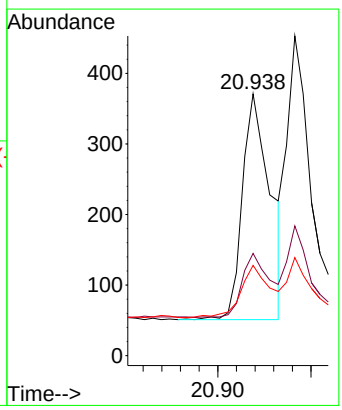


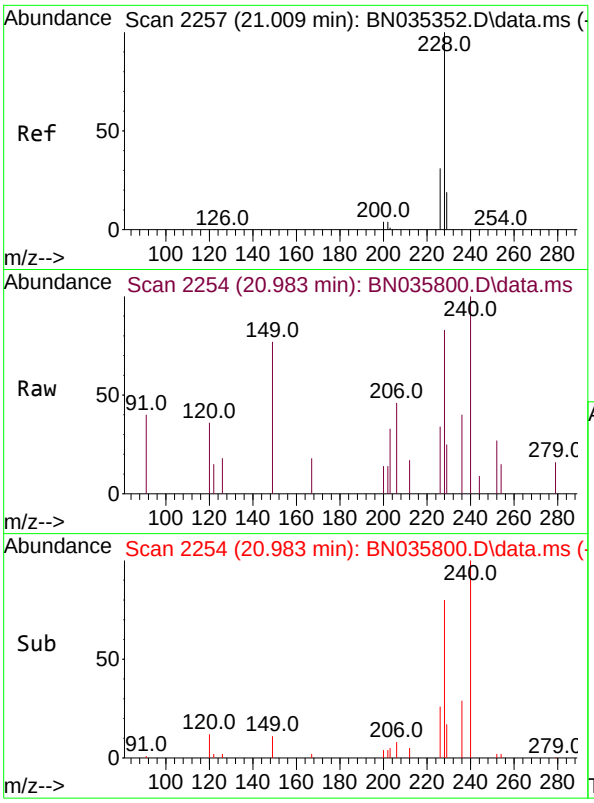


#32
Benzo(a)anthracene
Concen: 0.024 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:228 Resp: 660

Ion	Ratio	Lower	Upper
228	100		
226	39.1	22.5	33.7#
229	34.5	15.8	23.8#



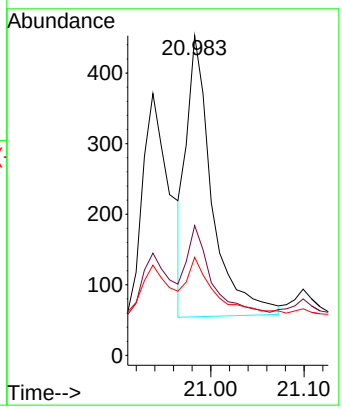


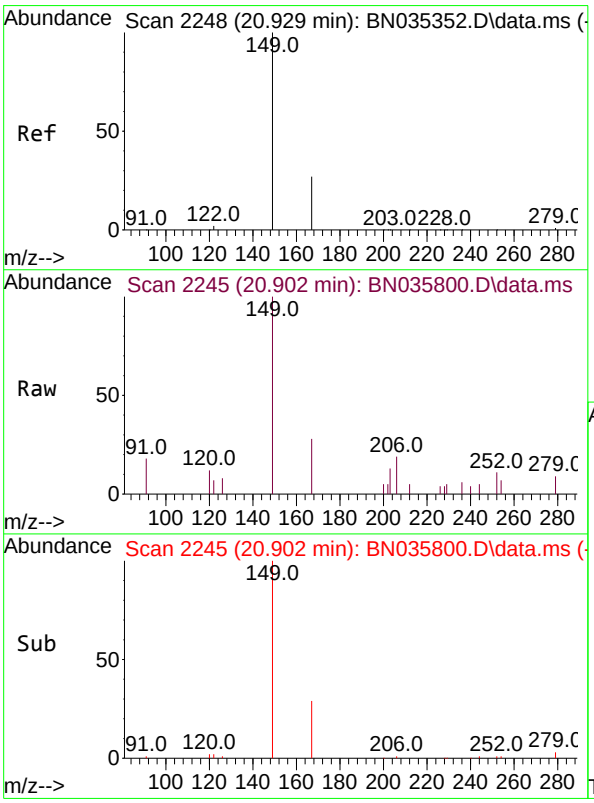
#33
Chrysene
Concen: 0.027 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:228 Resp: 756

Ion	Ratio	Lower	Upper
228	100		
226	40.6	24.6	37.0#
229	30.7	15.9	23.9#

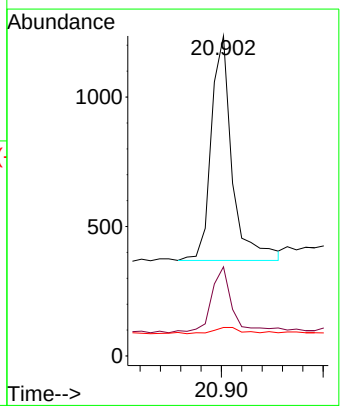


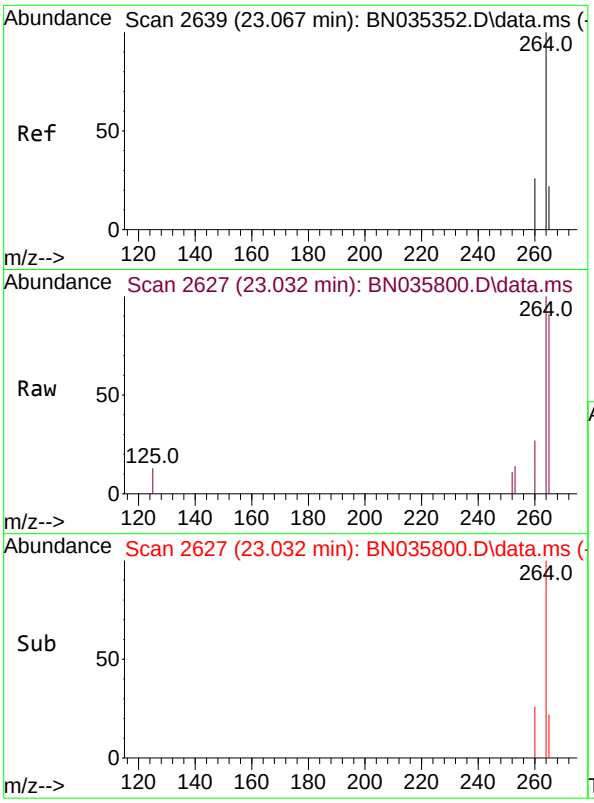


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:149 Resp: 1232

Ion	Ratio	Lower	Upper
149	100		
167	30.4	22.2	33.4
279	3.7	2.7	4.1



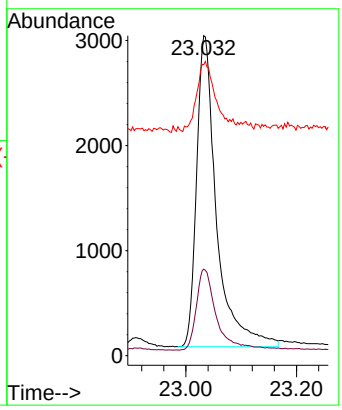


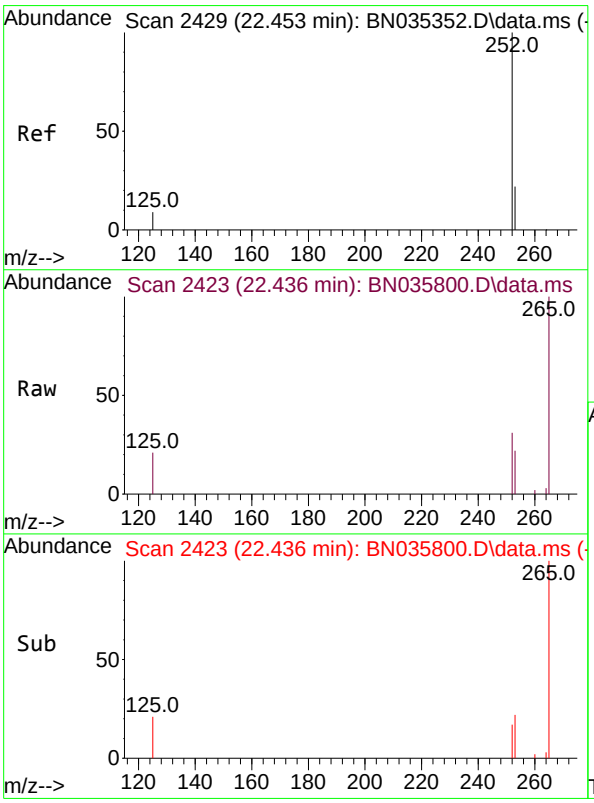
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:264 Resp: 7434

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	90.9	40.2	60.4#

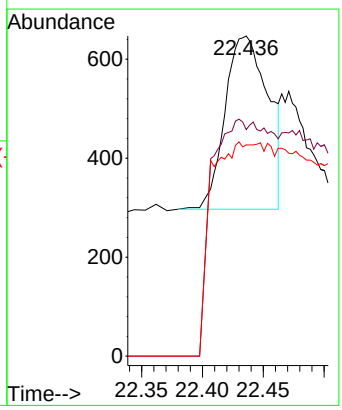


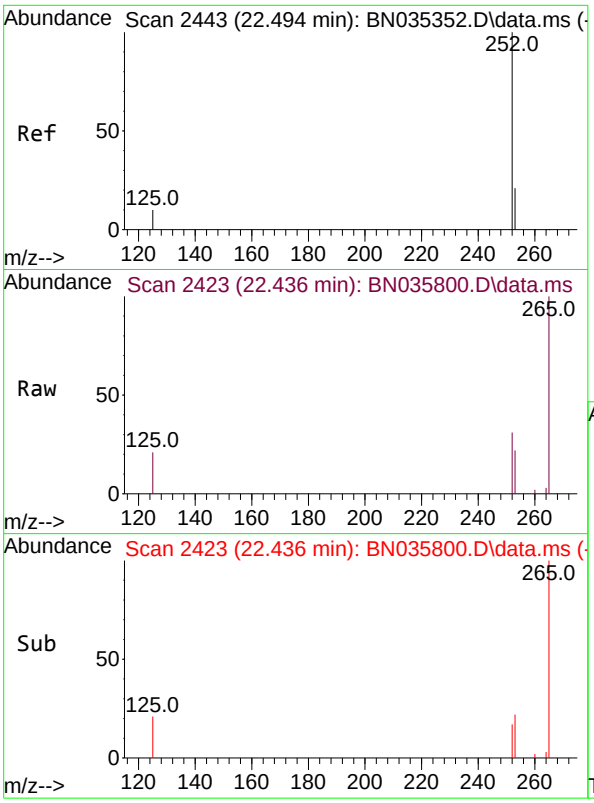


#37
Benzo(b)fluoranthene
Concen: 0.040 ng
RT: 22.436 min Scan# 2423
Delta R.T. 0.006 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Tgt Ion:252 Resp: 1085

Ion	Ratio	Lower	Upper
252	100		
253	70.8	19.6	29.4#
125	66.0	9.6	14.4#



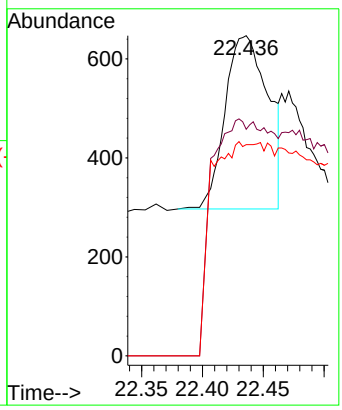


#38
Benzo(k)fluoranthene
Concen: 0.041 ng
RT: 22.436 min Scan# 24
Delta R.T. -0.035 min
Lab File: BN035800.D
Acq: 24 Dec 2024 01:49

Instrument :
BNA_N
ClientSampleId :
FB02-20241213

Tgt Ion:252 Resp: 1085

Ion	Ratio	Lower	Upper
252	100		
253	70.8	19.5	29.3#
125	66.0	10.2	15.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035808.D
Acq On : 24 Dec 2024 06:34
Operator : RC/JU
Sample : PB165667BS
Misc :
ALS Vial : 92 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Quant Time: Dec 24 07:07:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4067	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9754	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	5527	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10920	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9467	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	9435	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3134	0.308	ng	0.00
5) Phenol-d6	6.477	99	3400	0.278	ng	-0.01
8) Nitrobenzene-d5	8.397	82	3006	0.505	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	7007	0.459	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	647	0.165	ng	0.00
15) 2-Fluorobiphenyl	12.528	172	8330	0.399	ng	-0.02
27) Fluoranthene-d10	18.752	212	11348	0.367	ng	0.00
31) Terphenyl-d14	19.384	244	8056	0.431	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1441	0.371	ng	# 72
3) n-Nitrosodimethylamine	3.271	42	1276	0.394	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	3429	0.333	ng	99
9) Naphthalene	10.052	128	9192	0.357	ng	100
10) Hexachlorobutadiene	10.340	225	2323	0.391	ng	# 99
12) 2-Methylnaphthalene	11.687	142	5969	0.324	ng	98
16) Acenaphthylene	13.636	152	8595	0.370	ng	99
17) Acenaphthene	13.978	154	5618	0.365	ng	99
18) Fluorene	14.994	166	7068	0.320	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	260	0.242	ng	# 30
21) 4-Bromophenyl-phenylether	15.904	248	2229	0.349	ng	# 91
22) Hexachlorobenzene	16.003	284	3165	0.422	ng	98
23) Atrazine	16.202	200	1619	0.356	ng	96
24) Pentachlorophenol	16.363	266	1112	0.341	ng	# 84
25) Phenanthrene	16.736	178	10790	0.360	ng	99
26) Anthracene	16.835	178	9628	0.355	ng	99
28) Fluoranthene	18.785	202	12957	0.320	ng	100
30) Pyrene	19.152	202	13632	0.390	ng	99
32) Benzo(a)anthracene	20.929	228	10627	0.321	ng	99
33) Chrysene	20.983	228	14185	0.415	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4640	0.355	ng	100
36) Indeno(1,2,3-cd)pyrene	25.053	276	13497	0.366	ng	98
37) Benzo(b)fluoranthene	22.421	252	22672	0.657	ng	96
38) Benzo(k)fluoranthene	22.462	252	14330	0.422	ng	97
39) Benzo(a)pyrene	22.942	252	11221	0.395	ng	# 92
40) Dibenzo(a,h)anthracene	25.076	278	9782	0.336	ng	93
41) Benzo(g,h,i)perylene	25.664	276	11572	0.380	ng	99

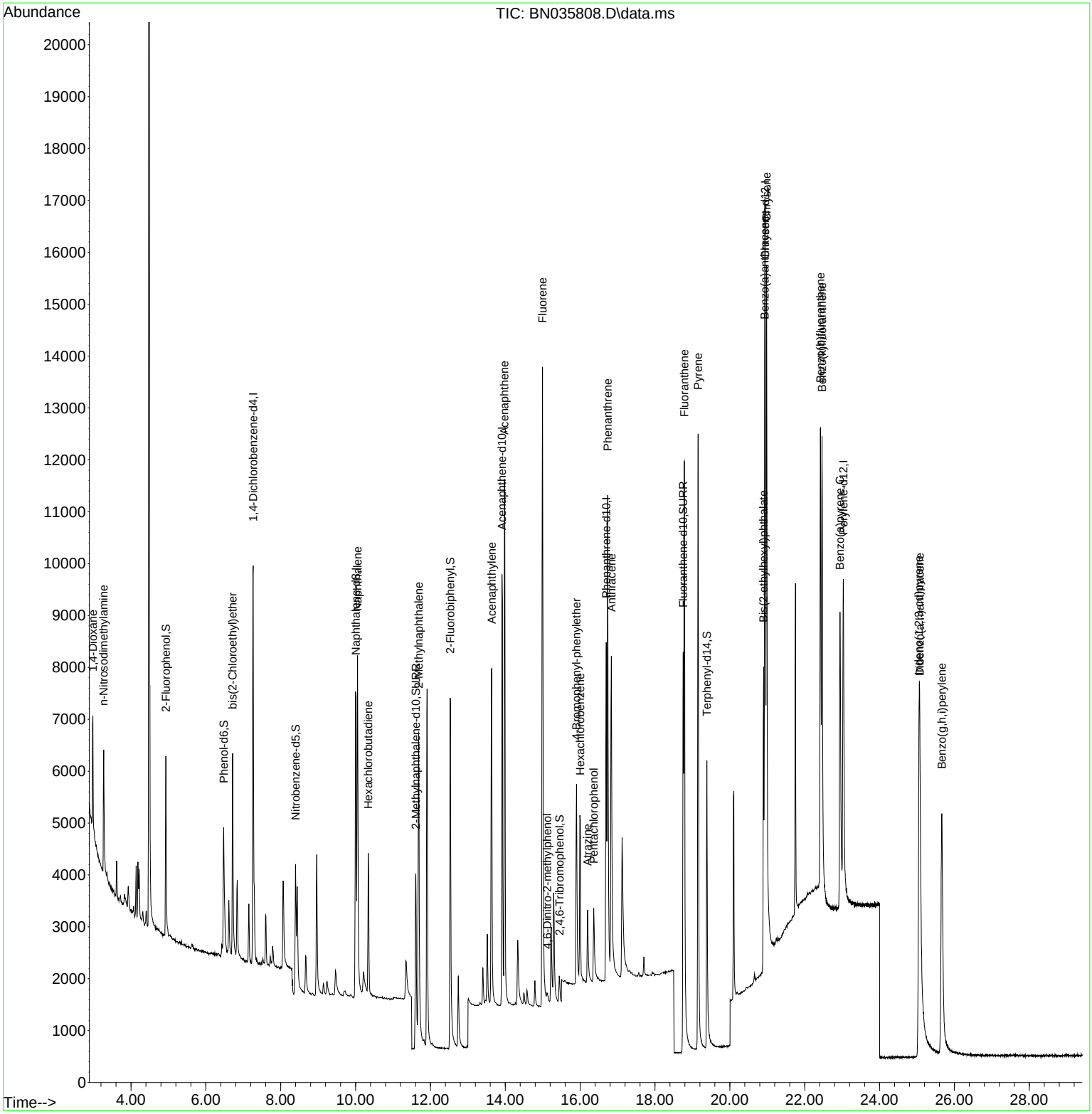
(#) = qualifier out of range (m) = manual integration (+) = signals summed

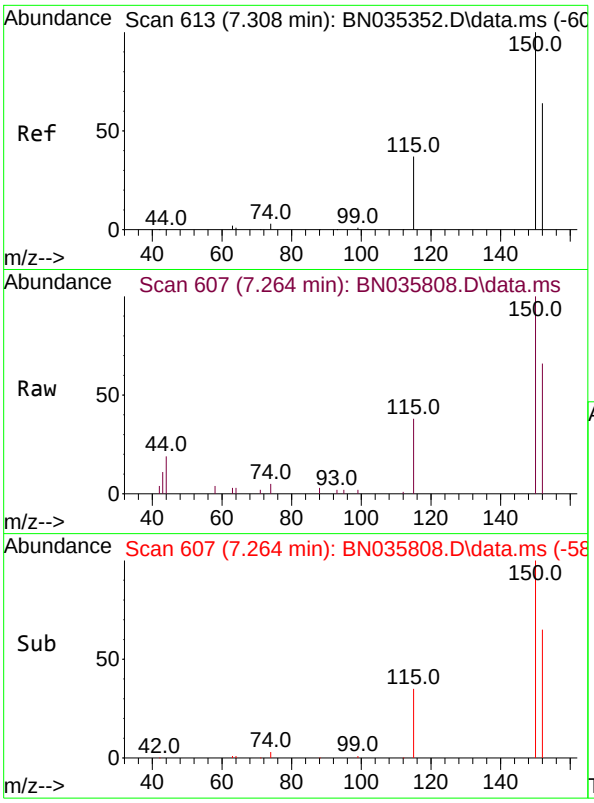
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035808.D
Acq On : 24 Dec 2024 06:34
Operator : RC/JU
Sample : PB165667BS
Misc :
ALS Vial : 92 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Quant Time: Dec 24 07:07:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



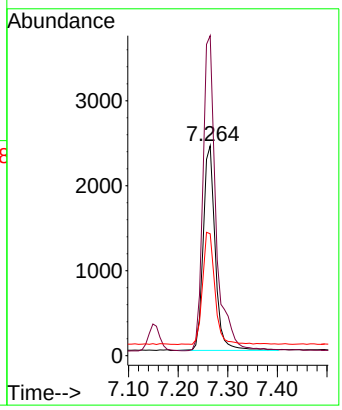


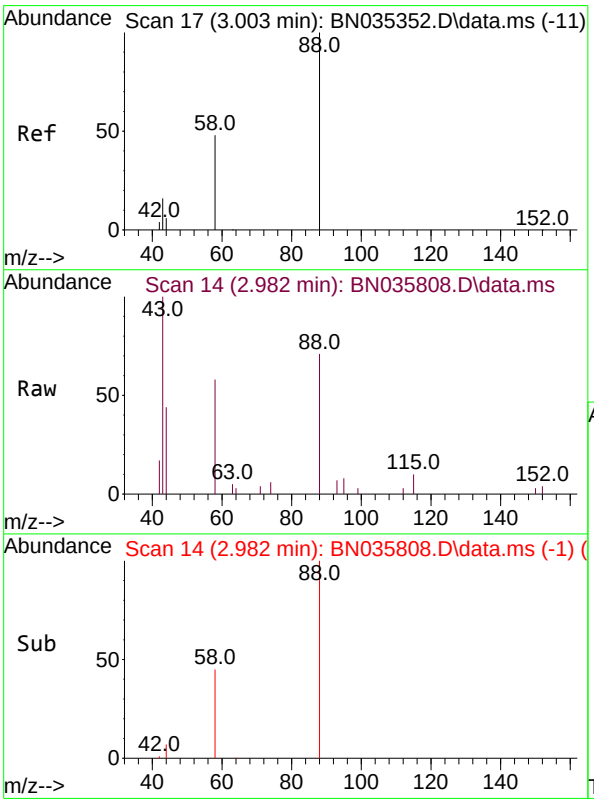
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:152 Resp: 4067

Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.0	186.0
115	58.0	49.6	74.4

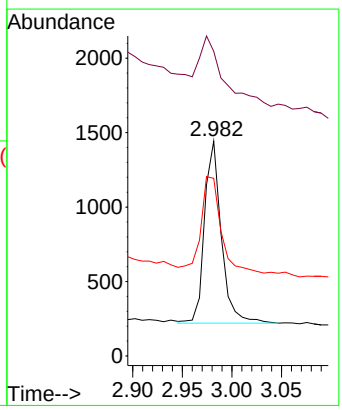


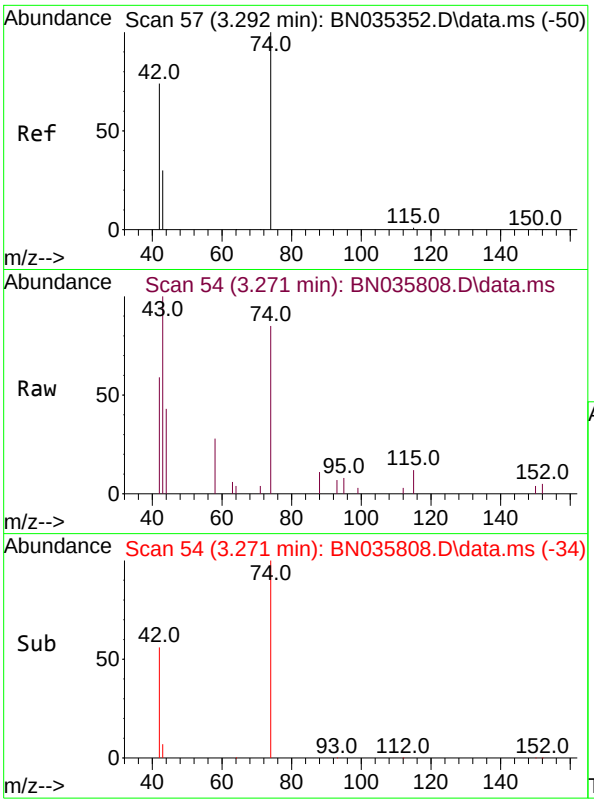


#2
1,4-Dioxane
Concen: 0.371 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 88 Resp: 1441

Ion	Ratio	Lower	Upper
88	100		
43	55.2	17.2	25.8#
58	64.2	44.5	66.7



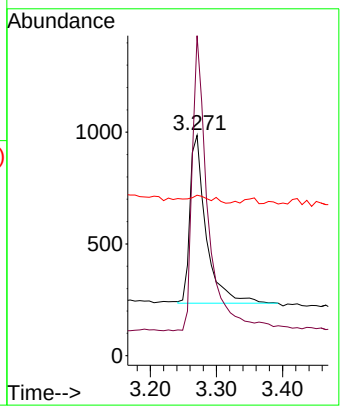


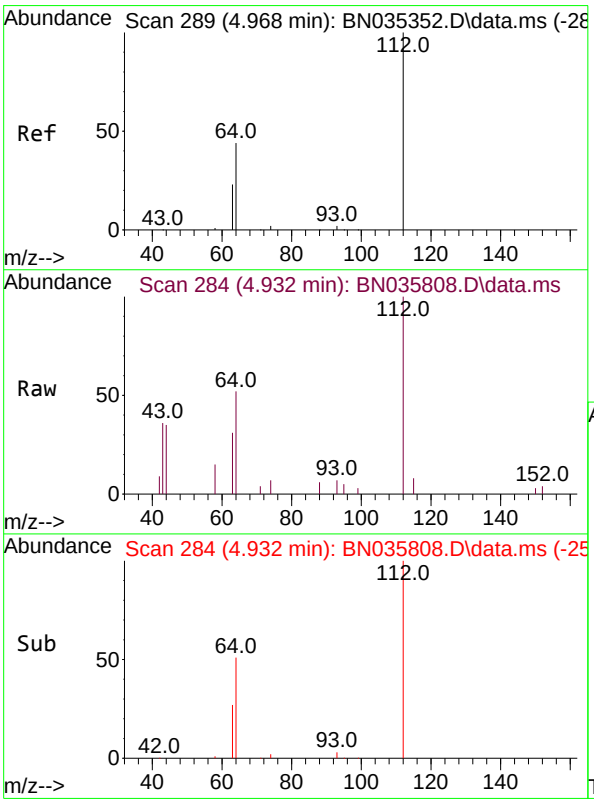
#3
n-Nitrosodimethylamine
Concen: 0.394 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion: 42 Resp: 1276

Ion	Ratio	Lower	Upper
42	100		
74	171.2	124.9	187.3
44	6.1	2.2	3.4#

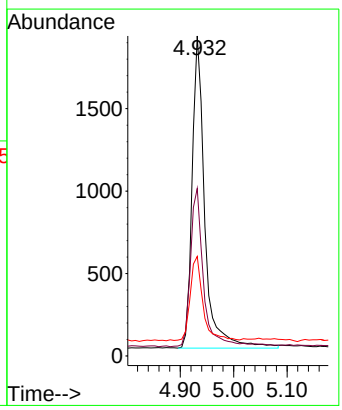


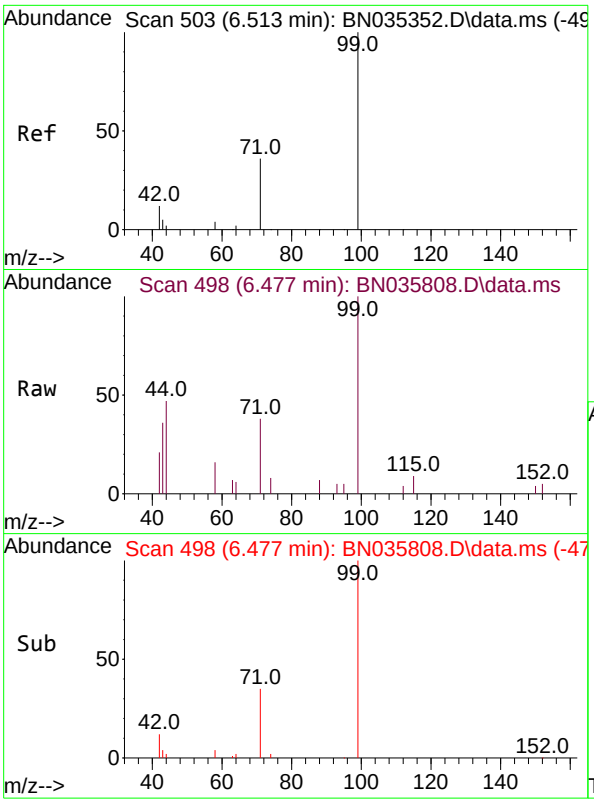


#4
2-Fluorophenol
Concen: 0.308 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:112 Resp: 3134

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.8
63	27.3	21.0	31.6



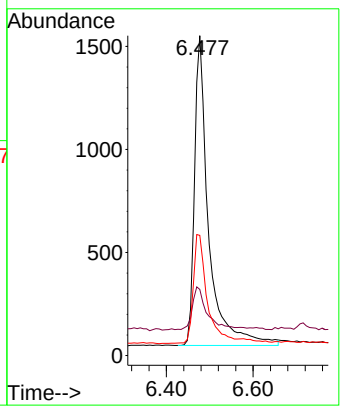


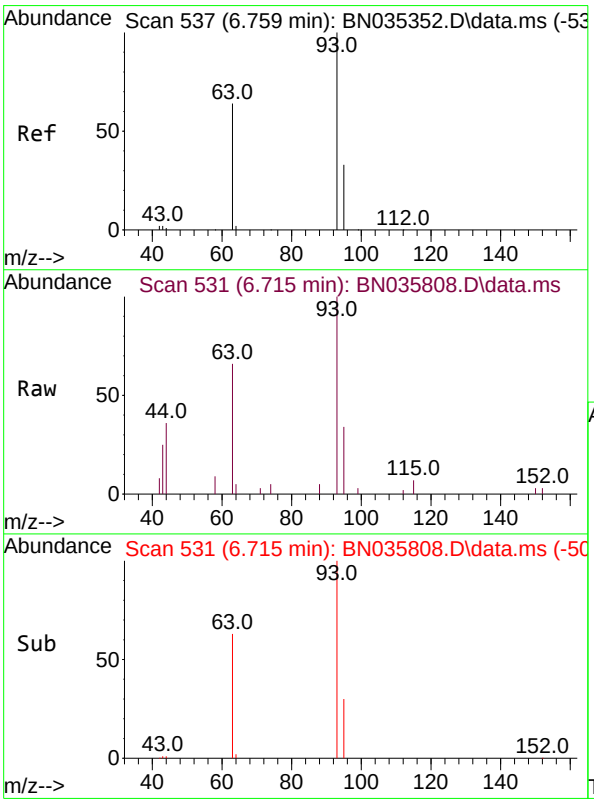
#5
Phenol-d6
Concen: 0.278 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion: 99 Resp: 3400

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	34.8	29.3	43.9

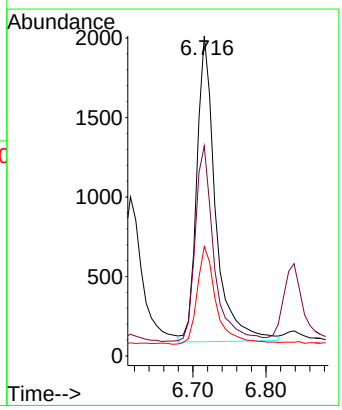


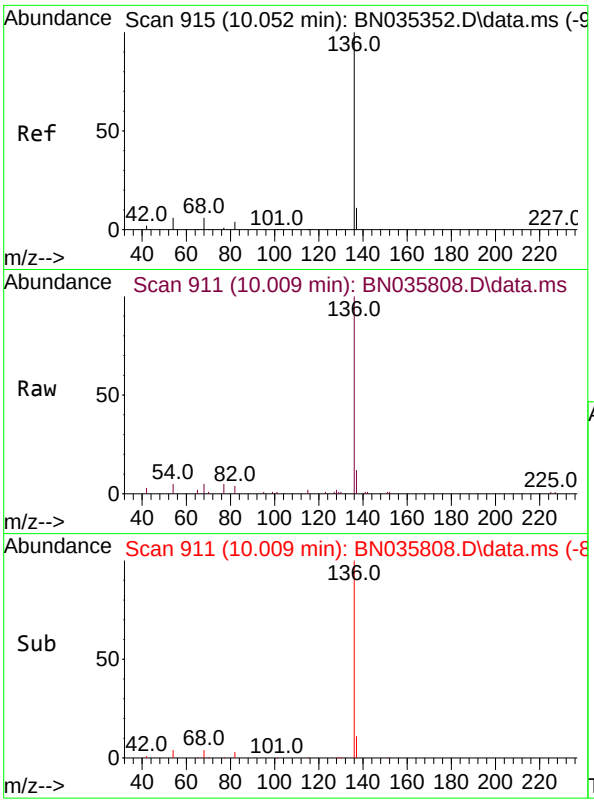


#6
bis(2-Chloroethyl)ether
Concen: 0.333 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 93 Resp: 3429

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	32.7	25.7	38.5



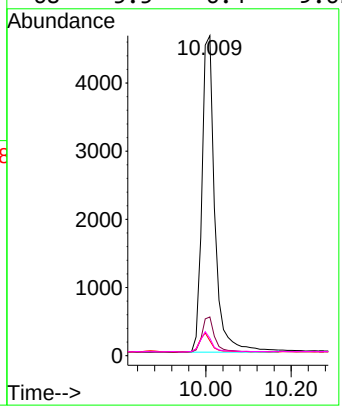


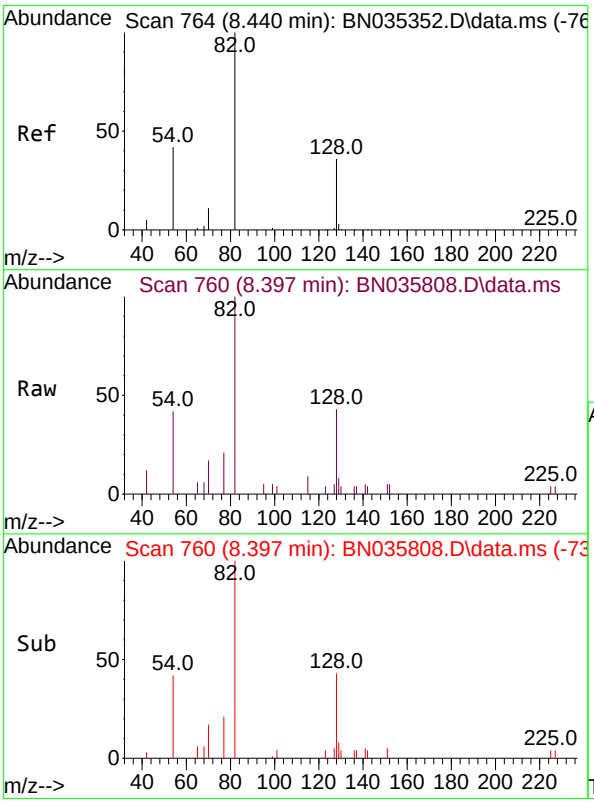
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:136 Resp: 9754

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.5	6.4	9.6#

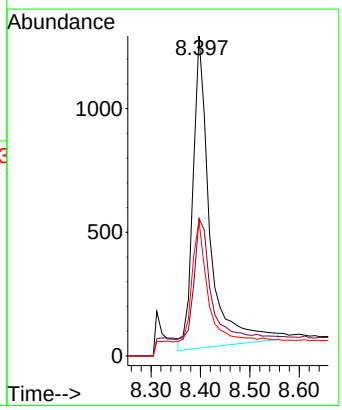


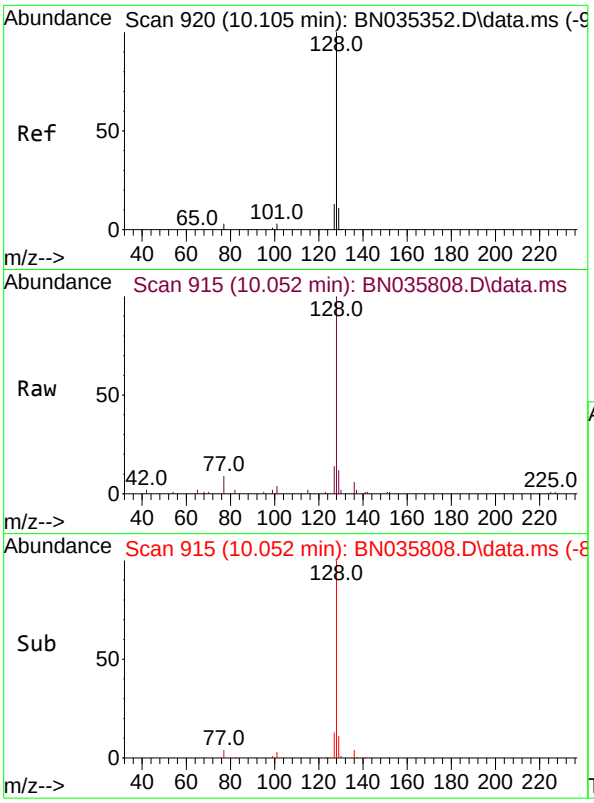


#8
Nitrobenzene-d5
Concen: 0.505 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 82 Resp: 3006

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.4	50.0
54	42.2	36.7	55.1



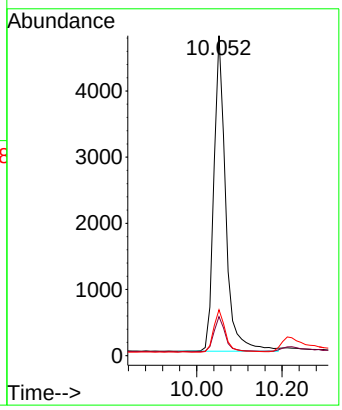


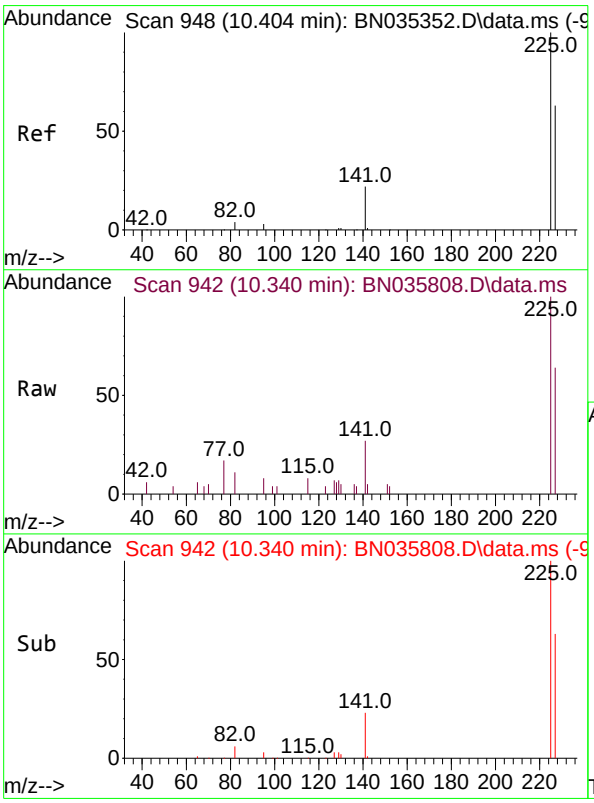
#9
Naphthalene
Concen: 0.357 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:128 Resp: 9192

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.4	11.4	17.2

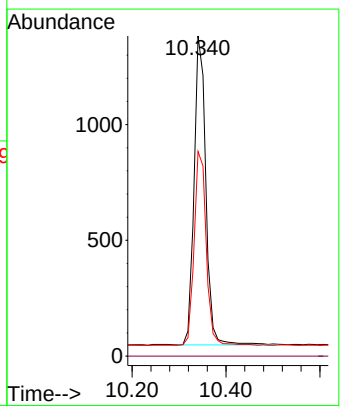


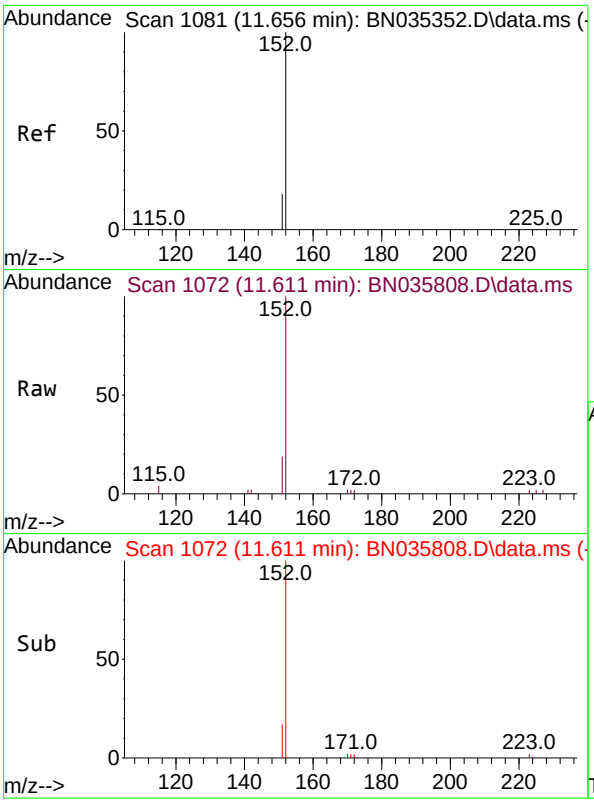


#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:225 Resp: 2323

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



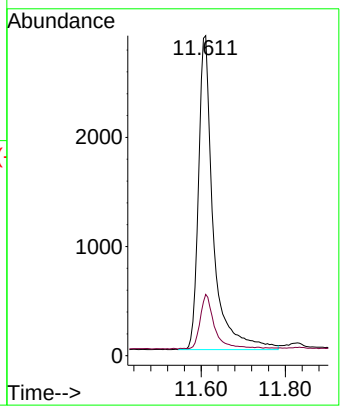


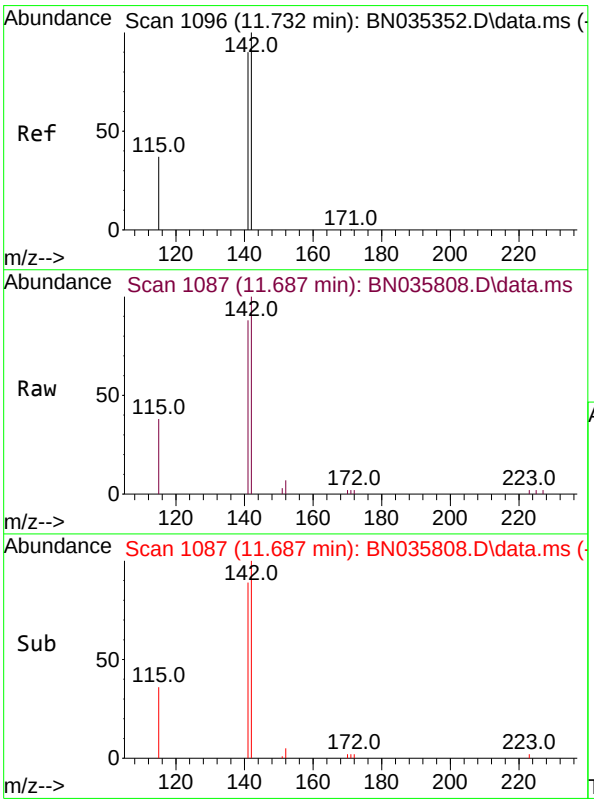
#11
2-Methylnaphthalene-d10
Concen: 0.459 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:152 Resp: 7007

Ion	Ratio	Lower	Upper
152	100		
151	16.5	16.6	25.0#

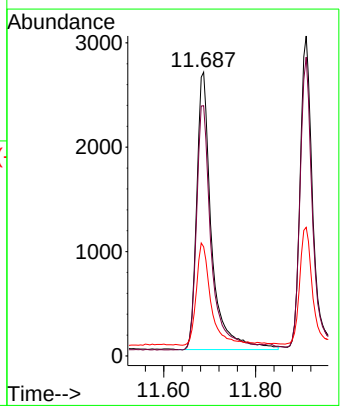


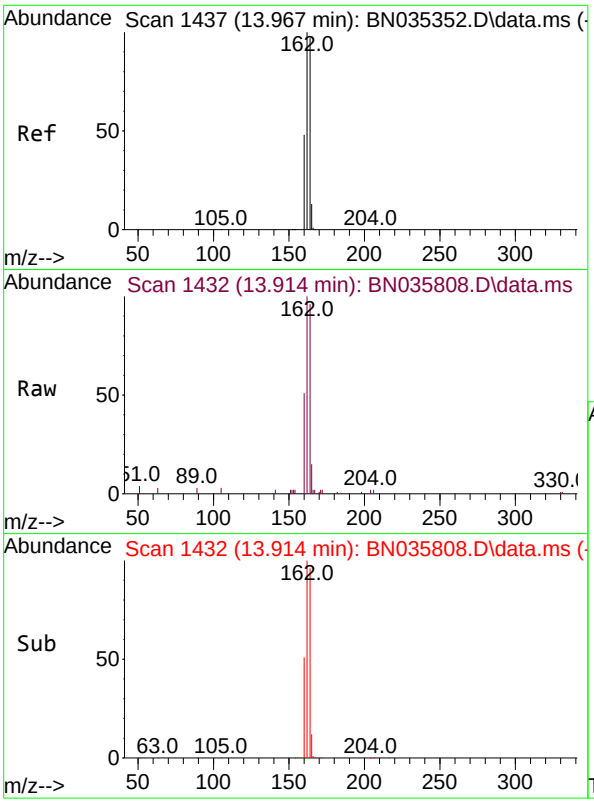


#12
2-Methylnaphthalene
Concen: 0.324 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:142 Resp: 5969

Ion	Ratio	Lower	Upper
142	100		
141	88.2	72.2	108.4
115	38.4	31.4	47.0



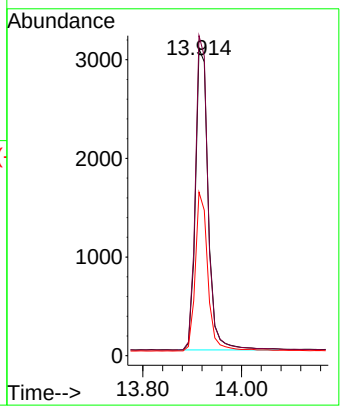


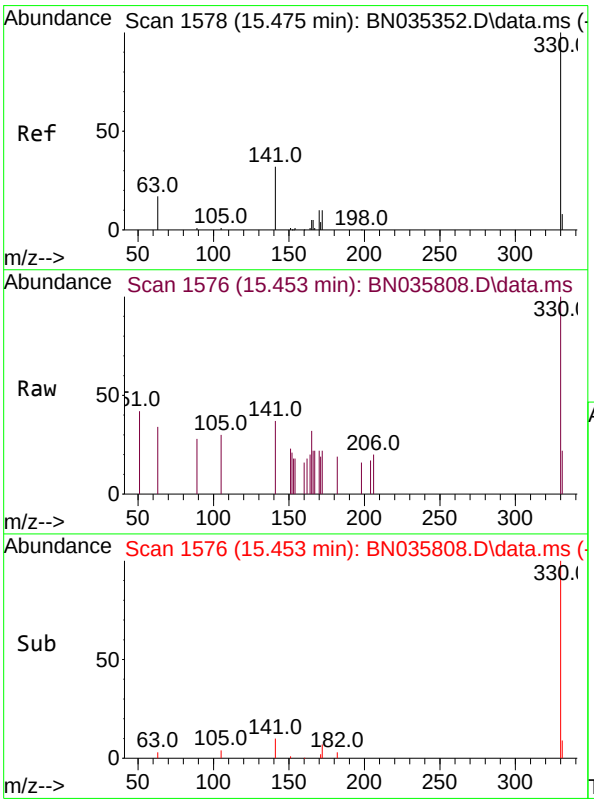
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:164 Resp: 5527

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	53.3	40.1	60.1

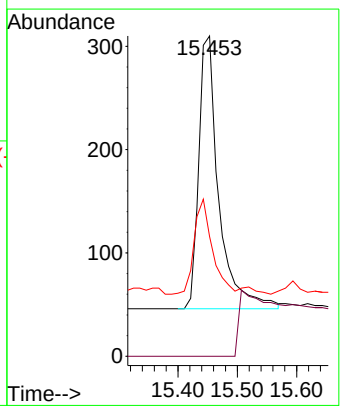


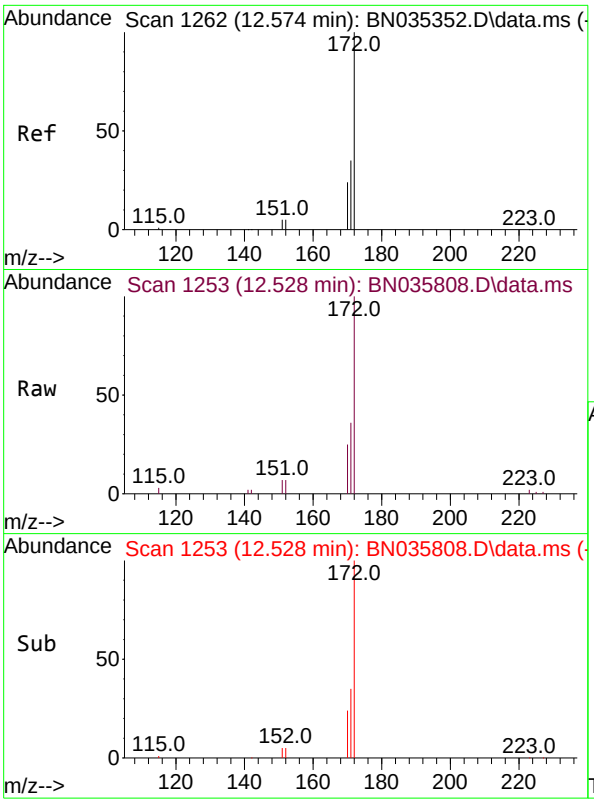


#14
2,4,6-Tribromophenol
Concen: 0.165 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:330 Resp: 647

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.3	26.6	40.0



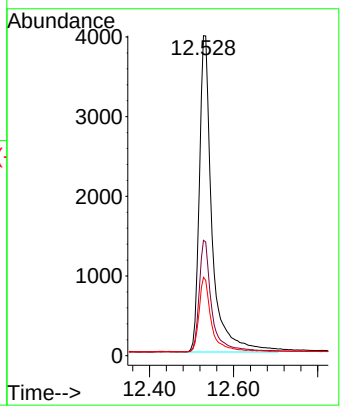


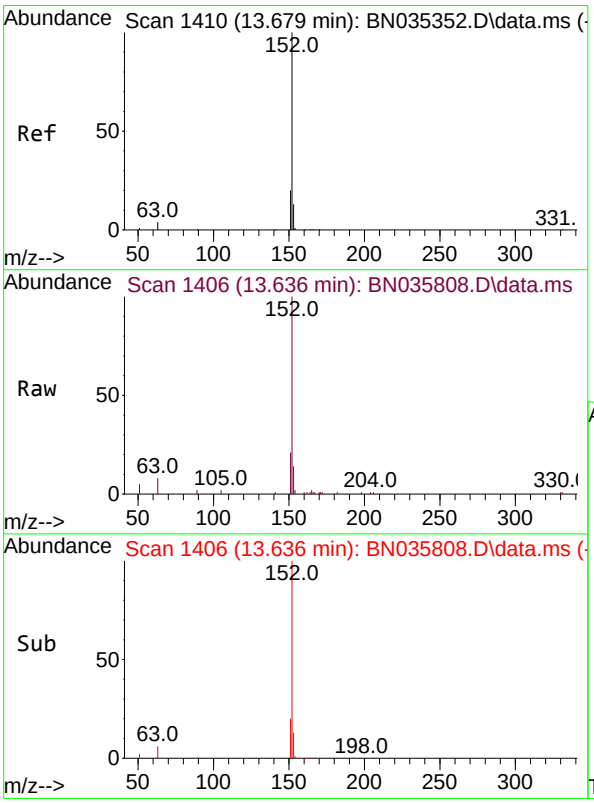
#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:172 Resp: 8330

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.5	19.8	29.8

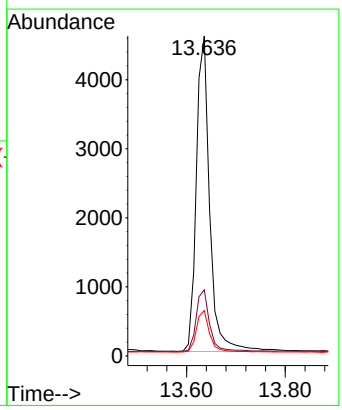


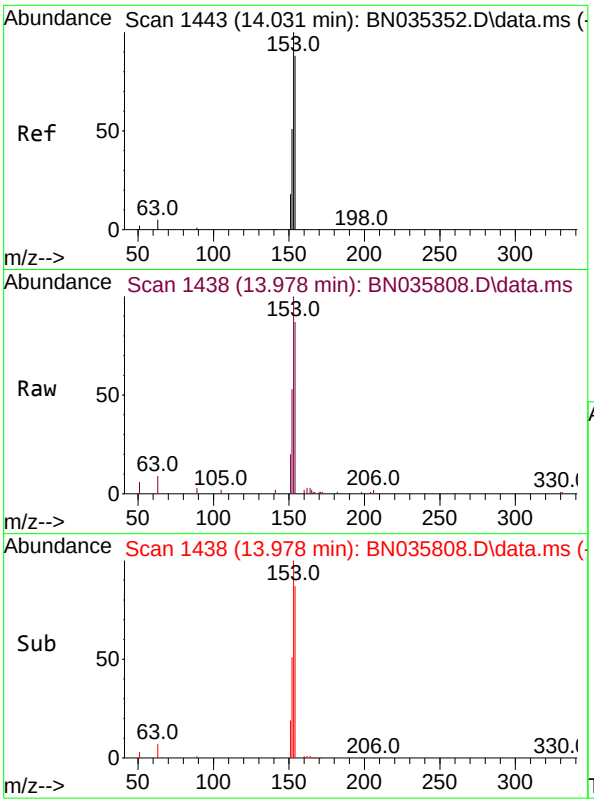


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:152 Resp: 8595

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6



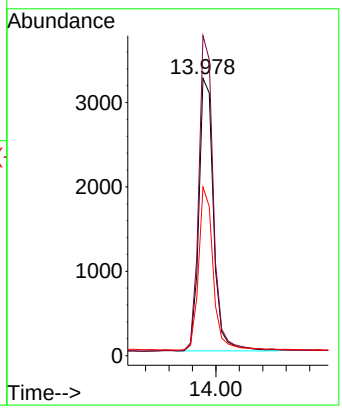


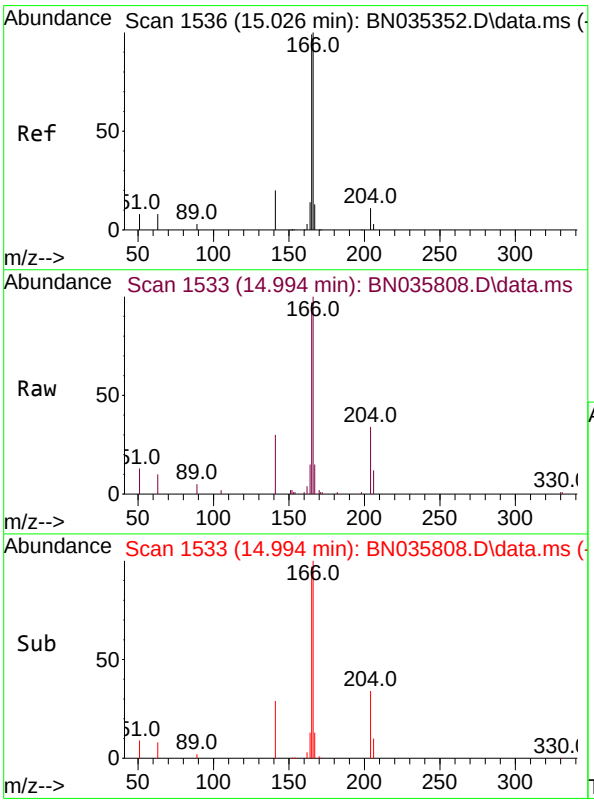
#17
Acenaphthene
Concen: 0.365 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:154 Resp: 5618

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	59.8	49.0	73.6

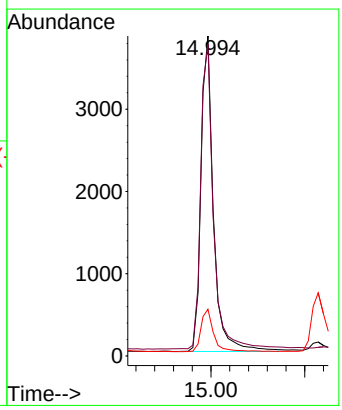


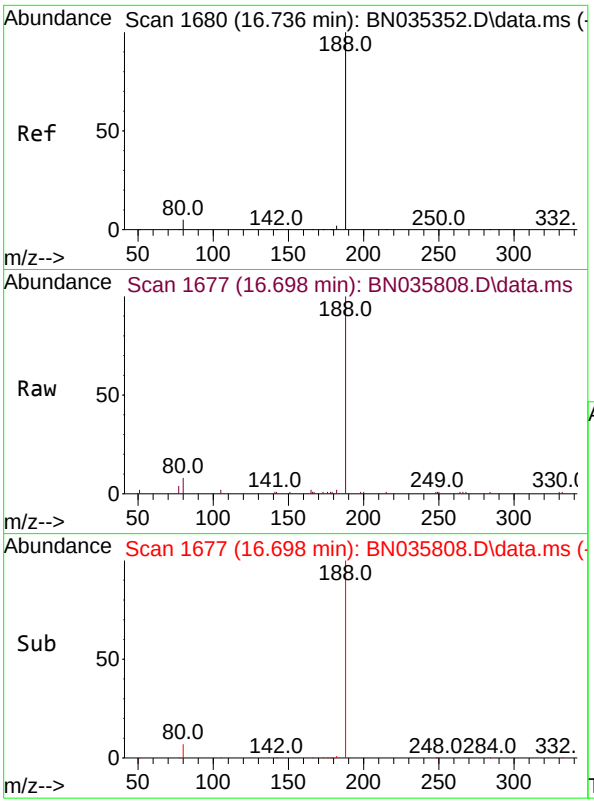


#18
Fluorene
Concen: 0.320 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:166 Resp: 7068

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.7	10.8	16.2



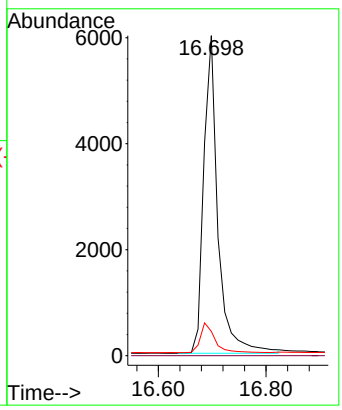


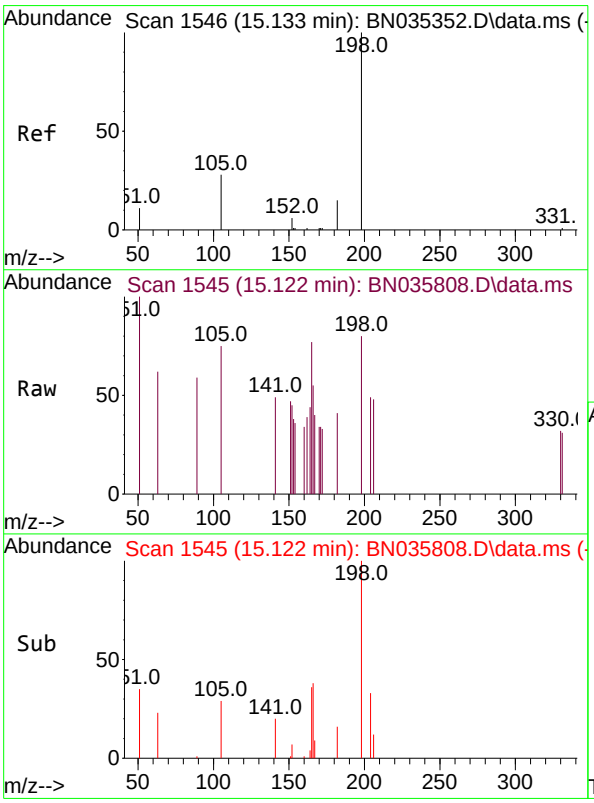
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:188 Resp: 10920

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.6	6.8#

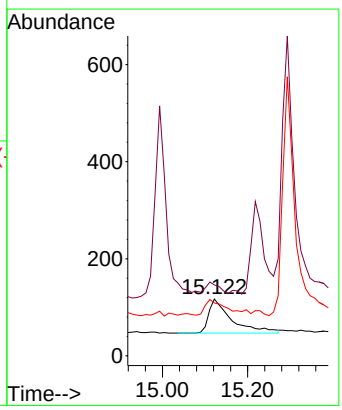


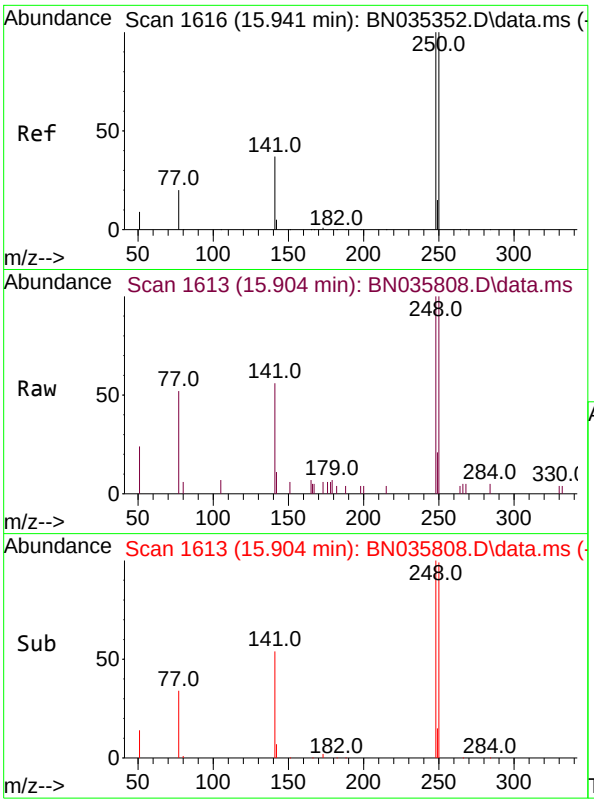


#20
4,6-Dinitro-2-methylphenol
Concen: 0.242 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:198 Resp: 260

Ion	Ratio	Lower	Upper
198	100		
51	124.8	46.5	69.7#
105	93.2	45.3	67.9#



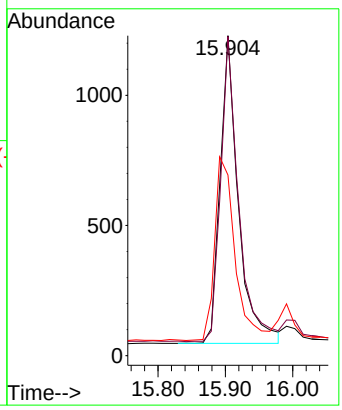


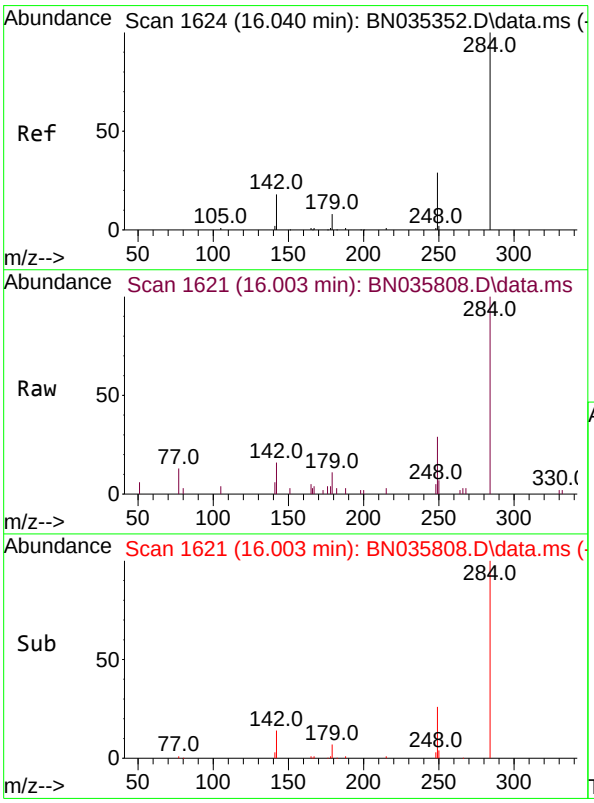
#21
4-Bromophenyl-phenylether
Concen: 0.349 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:248 Resp: 2229

Ion	Ratio	Lower	Upper
248	100		
250	99.8	80.6	120.8
141	56.5	31.5	47.3#

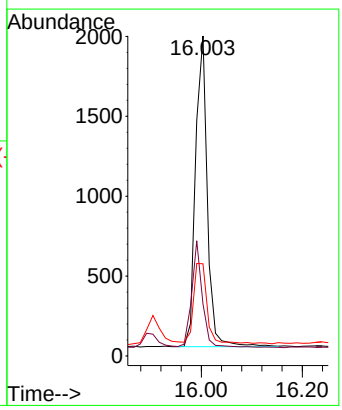


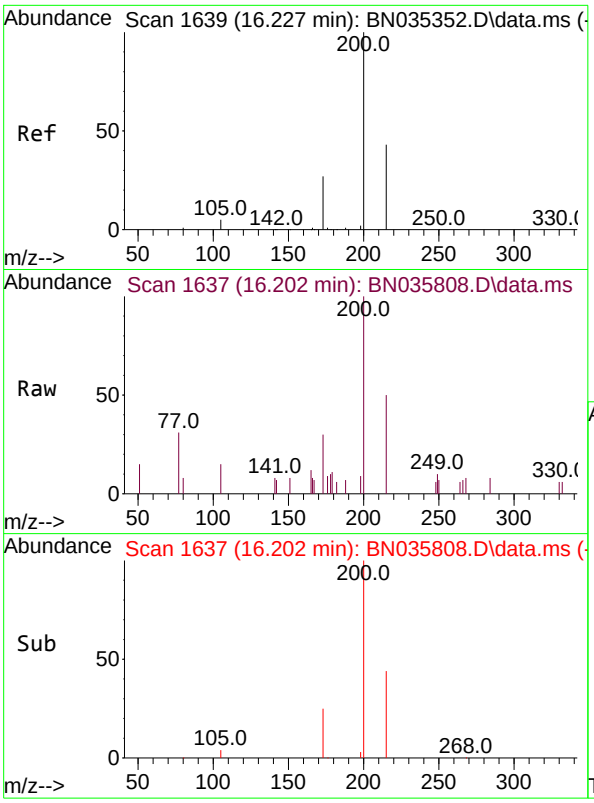


#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:284 Resp: 3165

Ion	Ratio	Lower	Upper
284	100		
142	31.6	26.7	40.1
249	30.2	24.6	36.8



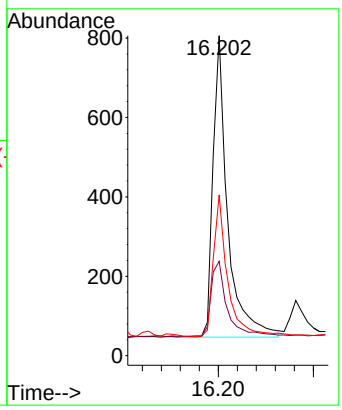


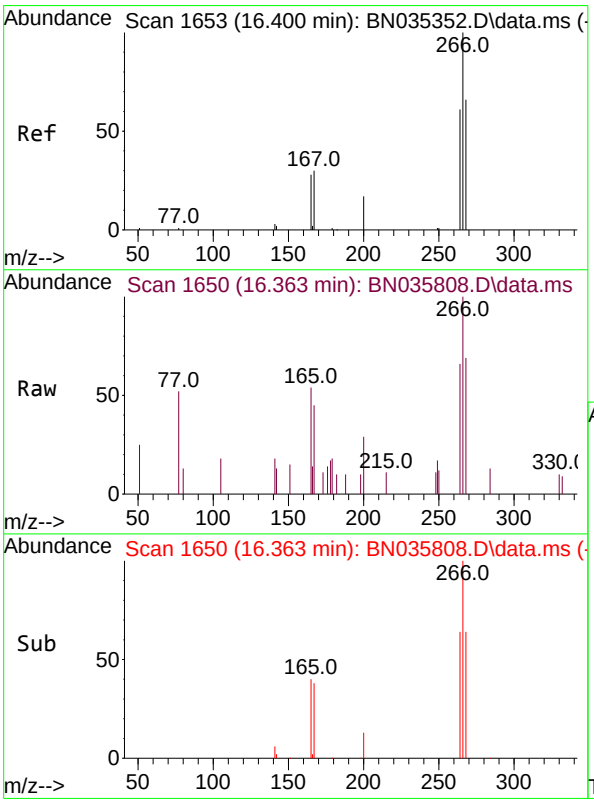
#23
Atrazine
Concen: 0.356 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:200 Resp: 1619

Ion	Ratio	Lower	Upper
200	100		
173	29.5	24.1	36.1
215	50.2	36.9	55.3

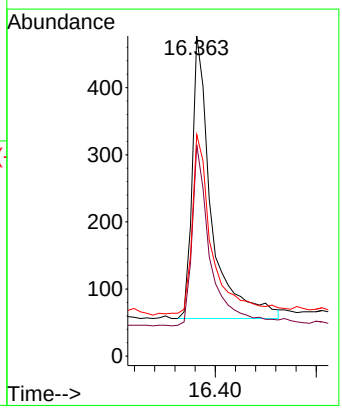


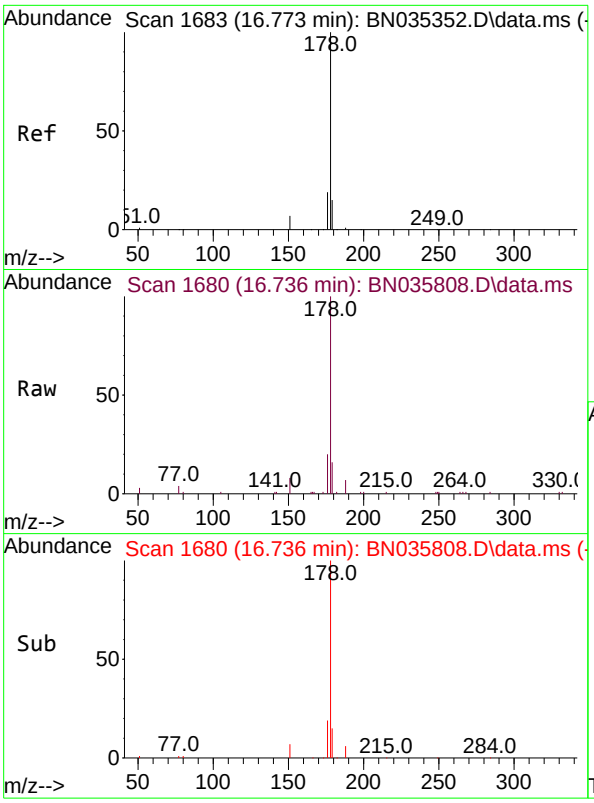


#24
Pentachlorophenol
Concen: 0.341 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:266 Resp: 1112

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	68.0	43.3	64.9#



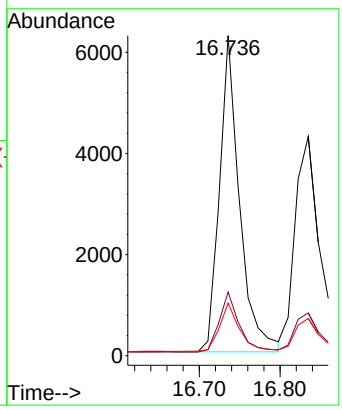


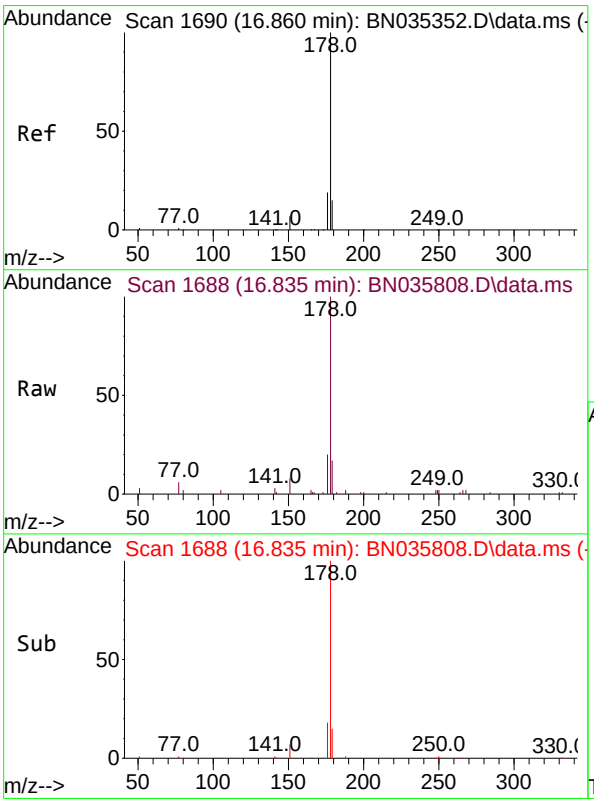
#25
Phenanthrene
Concen: 0.360 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:178 Resp: 10790

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.2	12.3	18.5

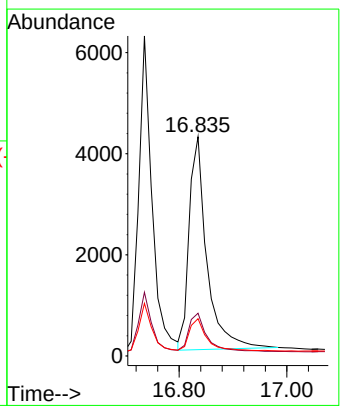


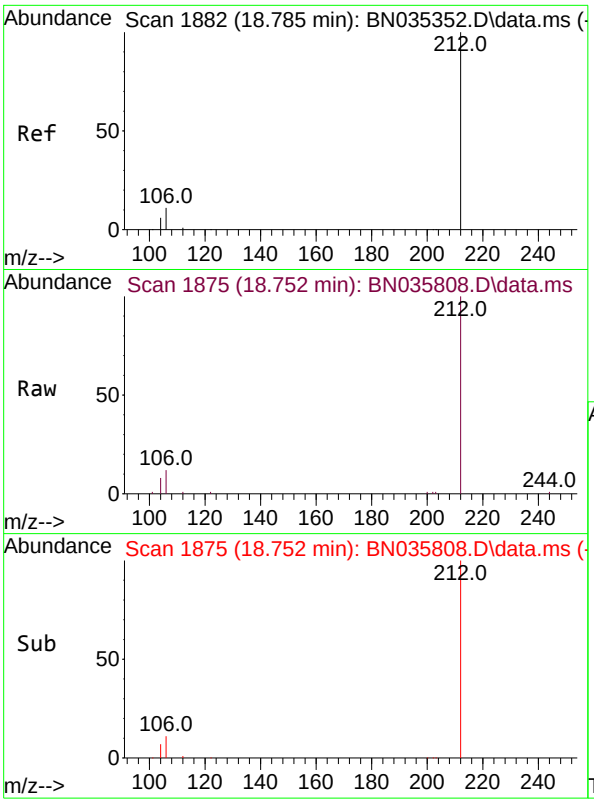


#26
Anthracene
Concen: 0.355 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:178 Resp: 9628

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8



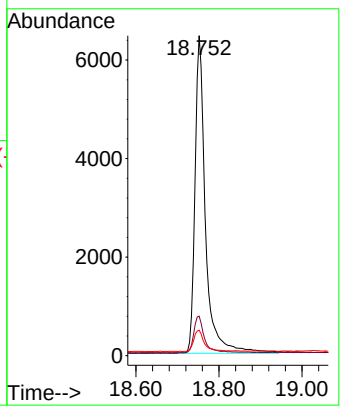


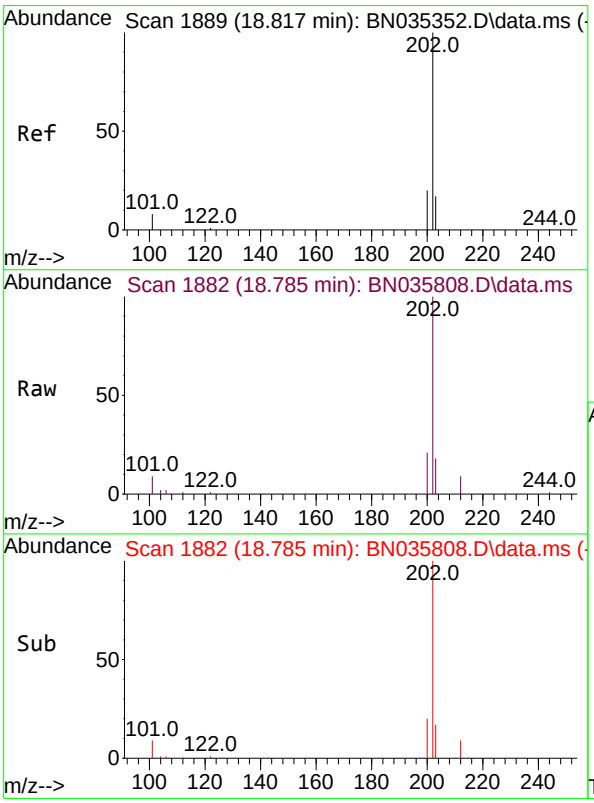
#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:212 Resp: 11348

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

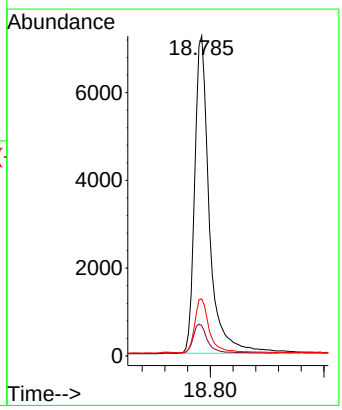


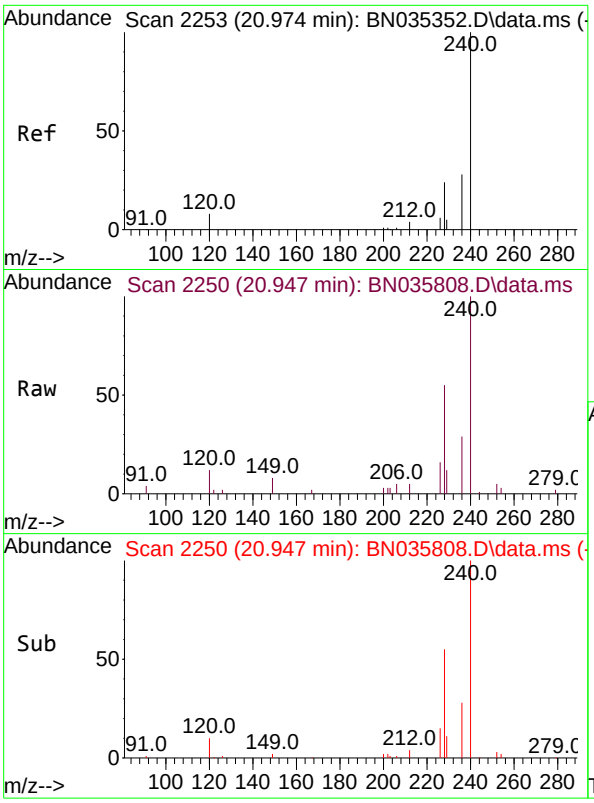


#28
Fluoranthene
Concen: 0.320 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 12957

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.8	13.7	20.5



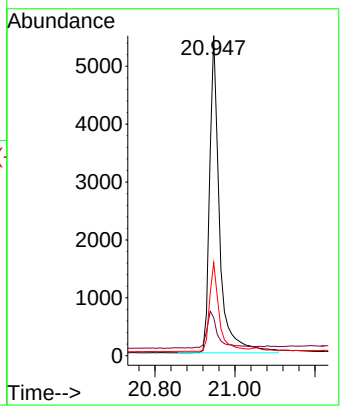


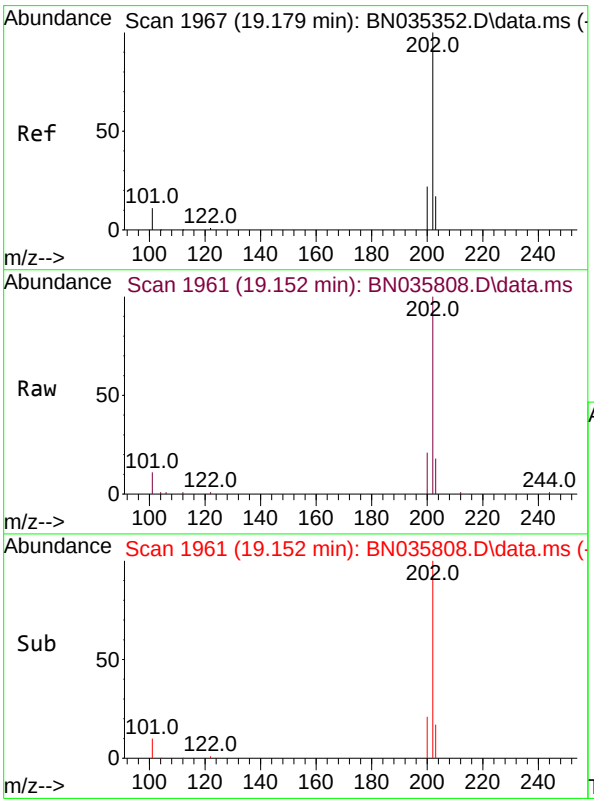
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:240 Resp: 9467

Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9#
236	29.1	22.9	34.3

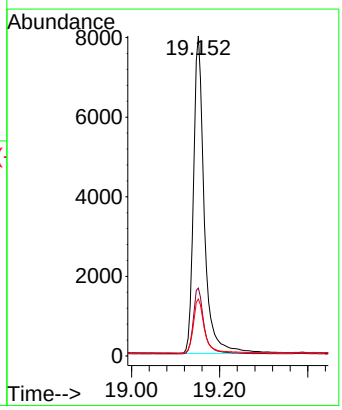


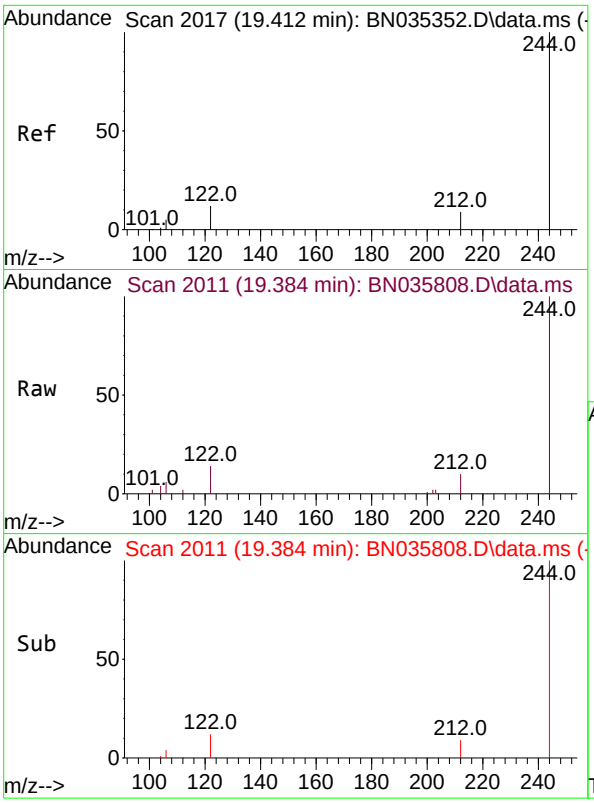


#30
Pyrene
Concen: 0.390 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 13632

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.6	14.3	21.5



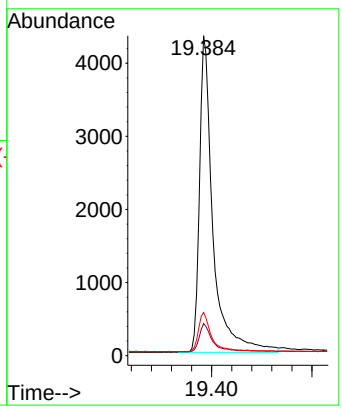


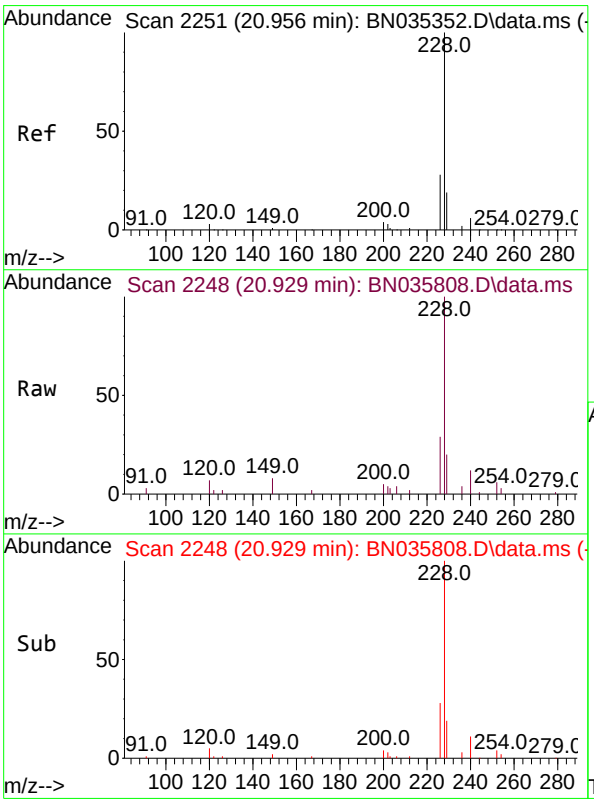
#31
Terphenyl-d14
Concen: 0.431 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:244 Resp: 8056

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.5	10.3	15.5

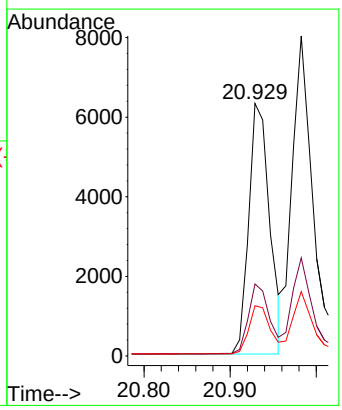


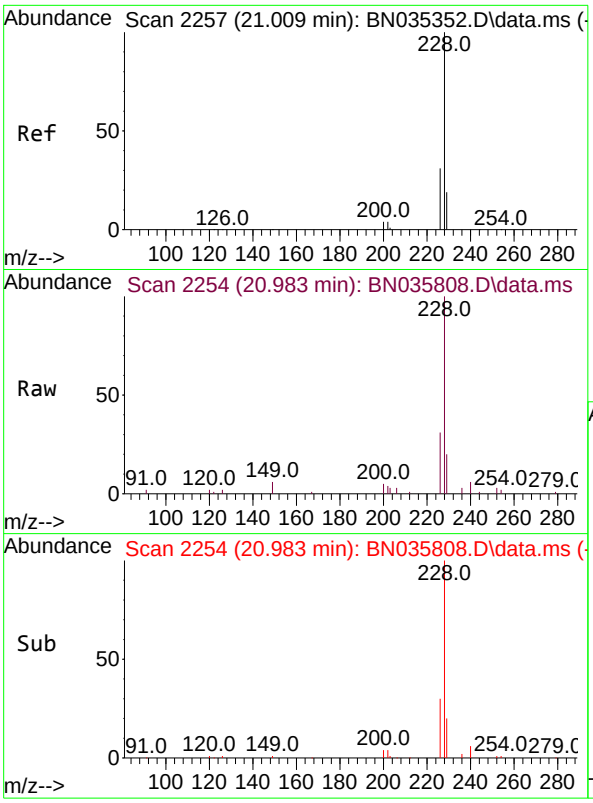


#32
Benzo(a)anthracene
Concen: 0.321 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:228 Resp: 10627

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.9	15.8	23.8



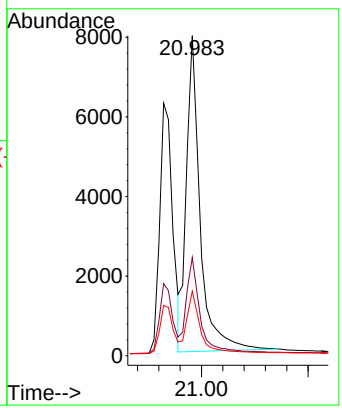


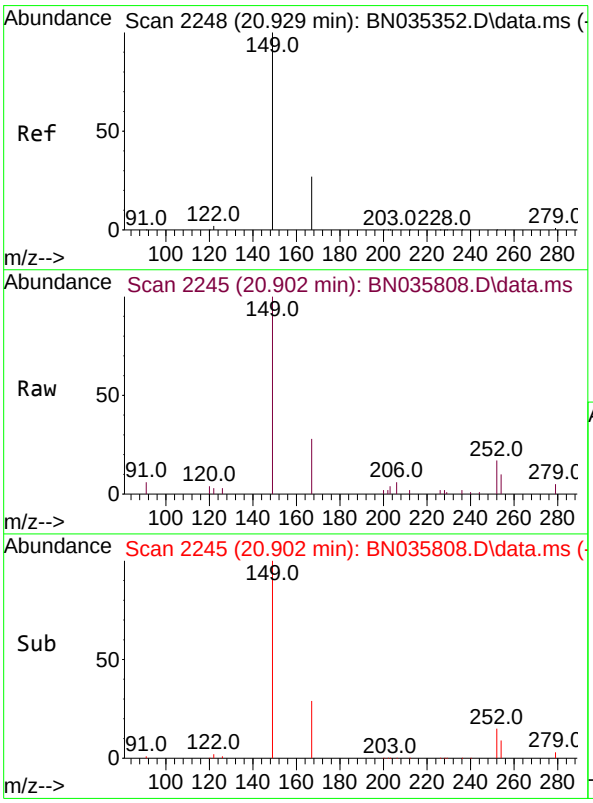
#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:228 Resp: 14185

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	20.1	15.9	23.9

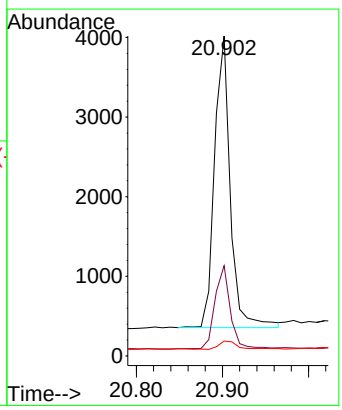


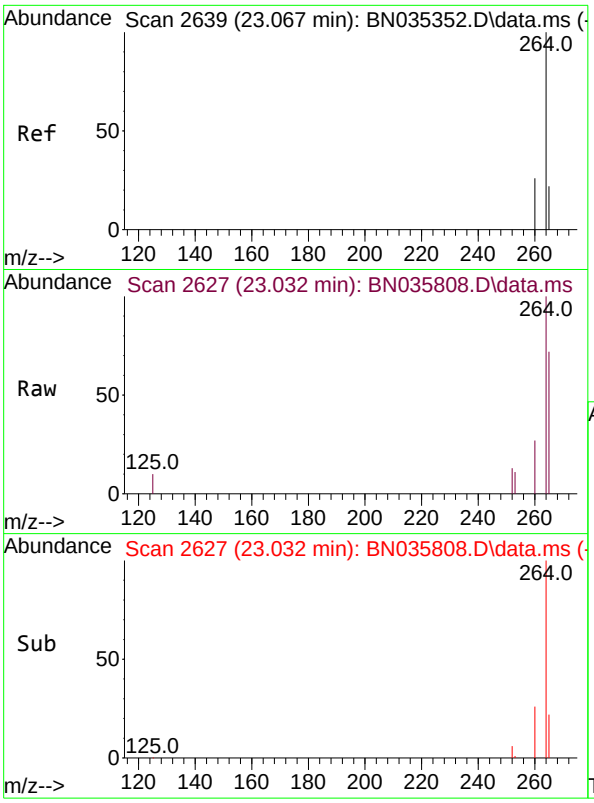


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:149 Resp: 4640

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.2	2.7	4.1



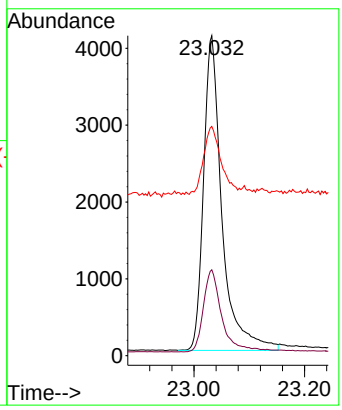


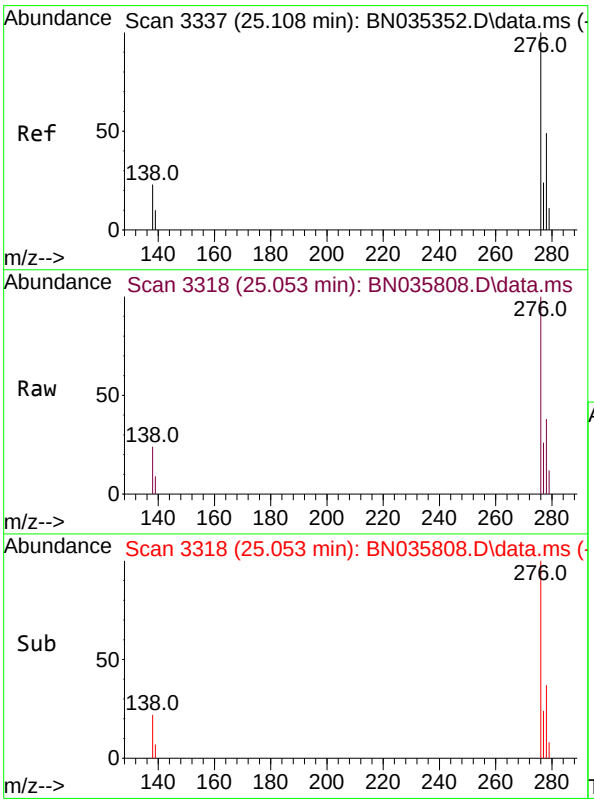
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:264 Resp: 9435

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	71.7	40.2	60.4#

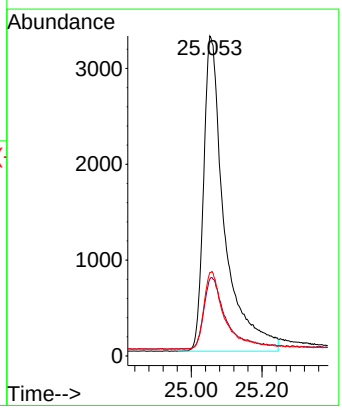


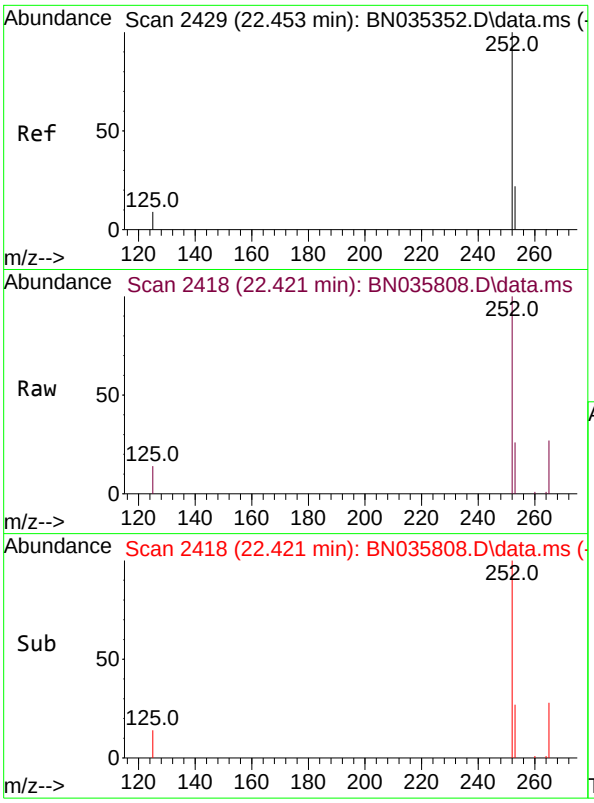


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.053 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:276 Resp: 13497

Ion	Ratio	Lower	Upper
276	100		
138	22.1	19.4	29.0
277	24.4	19.8	29.6



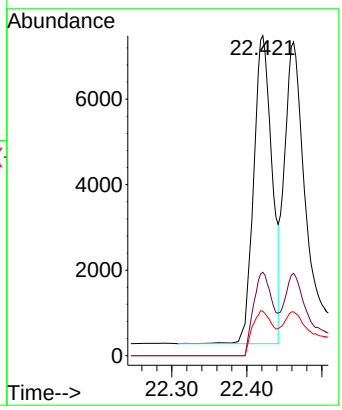


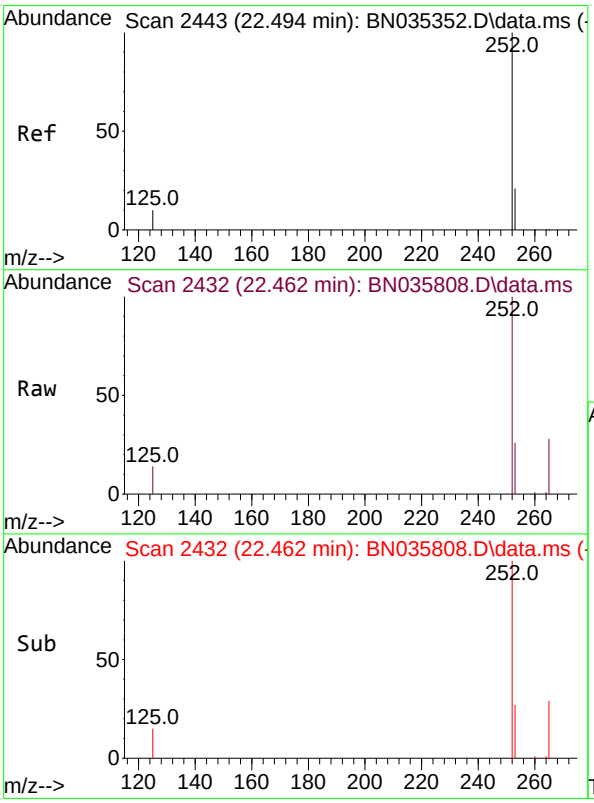
#37
Benzo(b)fluoranthene
Concen: 0.657 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:252 Resp: 22672

Ion	Ratio	Lower	Upper
252	100		
253	26.1	19.6	29.4
125	13.9	9.6	14.4

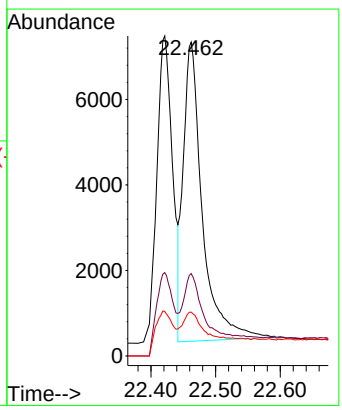


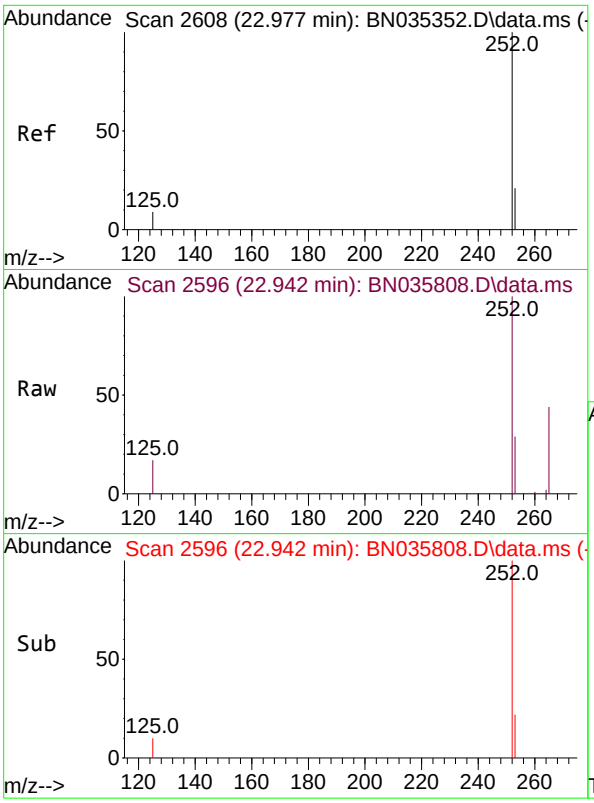


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:252 Resp: 14330

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.5	29.3
125	14.0	10.2	15.4



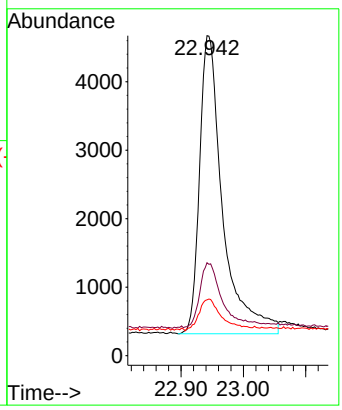


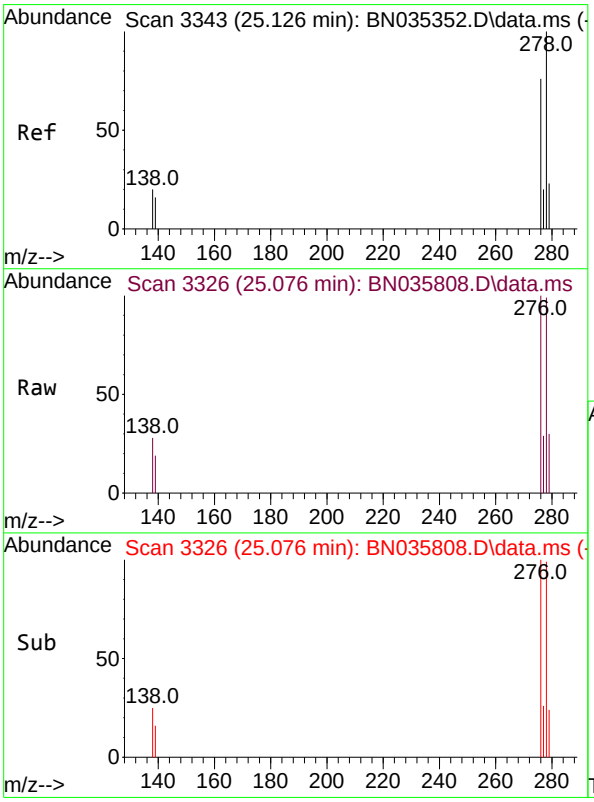
#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:252 Resp: 11221

Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.5	10.9	16.3#

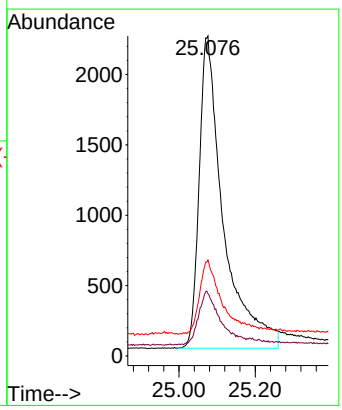


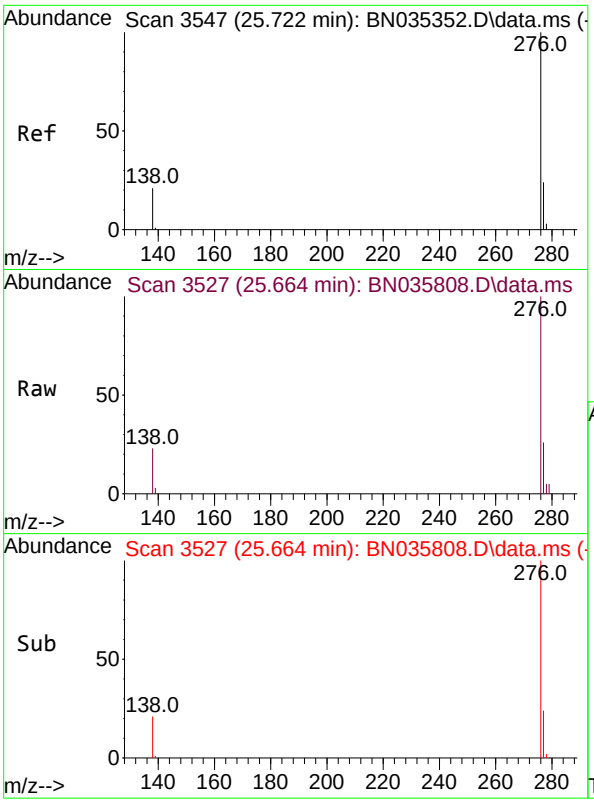


#40
Dibenzo(a,h)anthracene
Concen: 0.336 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:278 Resp: 9782

Ion	Ratio	Lower	Upper
278	100		
139	19.5	14.2	21.4
279	30.0	20.5	30.7



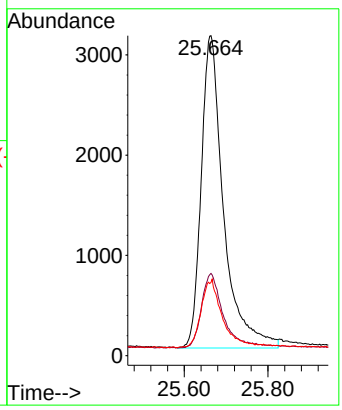


#41
Benzo(g,h,i)perylene
Concen: 0.380 ng
RT: 25.664 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:276 Resp: 11572

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	22.9	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035809.D
Acq On : 24 Dec 2024 07:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 93 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 07:43:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	8362	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	20753	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	12456	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	24922	0.400	ng		#-0.01
29) Chrysene-d12	20.947	240	20198	0.400	ng		0.00
35) Perylene-d12	23.026	264	21431	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	7909	0.378	ng		-0.01
5) Phenol-d6	6.470	99	9085	0.361	ng		-0.02
8) Nitrobenzene-d5	8.397	82	6477	0.511	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	11679	0.360	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	2792	0.316	ng		-0.01
15) 2-Fluorobiphenyl	12.523	172	19125	0.406	ng		-0.02
27) Fluoranthene-d10	18.747	212	23606	0.334	ng		-0.01
31) Terphenyl-d14	19.379	244	16501	0.414	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	3198	0.400	ng		100
3) n-Nitrosodimethylamine	3.263	42	2673	0.401	ng	#	88
6) bis(2-Chloroethyl)ether	6.716	93	7863	0.372	ng		99
9) Naphthalene	10.052	128	21064	0.385	ng		98
10) Hexachlorobutadiene	10.340	225	5424	0.430	ng	#	100
12) 2-Methylnaphthalene	11.682	142	13794	0.352	ng		98
16) Acenaphthylene	13.625	152	19447	0.372	ng		99
17) Acenaphthene	13.978	154	13250	0.382	ng		99
18) Fluorene	14.983	166	17299	0.348	ng		99
20) 4,6-Dinitro-2-methylph...	15.101	198	892	0.364	ng		99
21) 4-Bromophenyl-phenylether	15.892	248	5717	0.392	ng	#	72
22) Hexachlorobenzene	15.991	284	7638	0.446	ng		97
23) Atrazine	16.189	200	3955	0.381	ng		99
24) Pentachlorophenol	16.363	266	2368	0.318	ng	#	86
25) Phenanthrene	16.736	178	25787	0.377	ng		100
26) Anthracene	16.822	178	22279	0.360	ng		99
28) Fluoranthene	18.780	202	31096	0.337	ng		100
30) Pyrene	19.147	202	32211	0.432	ng		100
32) Benzo(a)anthracene	20.929	228	25428	0.360	ng		99
33) Chrysene	20.983	228	29722	0.408	ng		98
34) Bis(2-ethylhexyl)phtha...	20.902	149	11220	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	25.047	276	32558	0.389	ng		100
37) Benzo(b)fluoranthene	22.418	252	43862	0.559	ng		98
38) Benzo(k)fluoranthene	22.459	252	32848	0.426	ng		97
39) Benzo(a)pyrene	22.939	252	23952	0.371	ng		100
40) Dibenzo(a,h)anthracene	25.064	278	24090	0.364	ng		99
41) Benzo(g,h,i)perylene	25.658	276	28353	0.410	ng		99

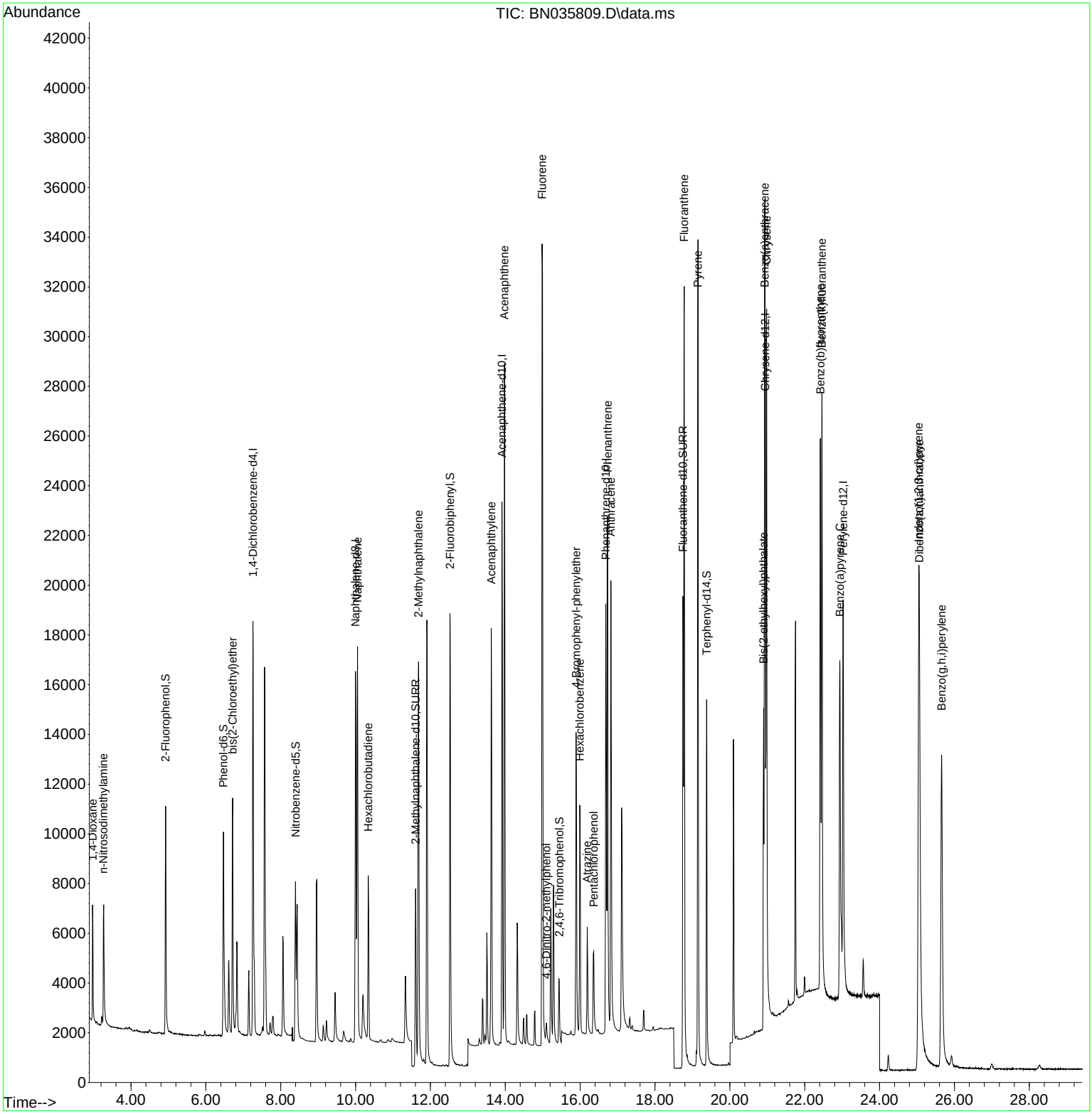
(#) = qualifier out of range (m) = manual integration (+) = signals summed

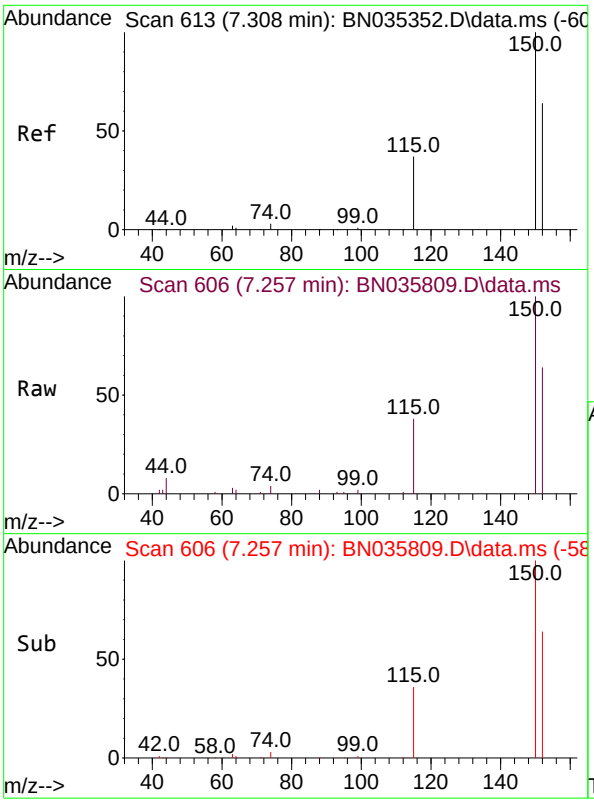
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035809.D
Acq On : 24 Dec 2024 07:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 93 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 07:43:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



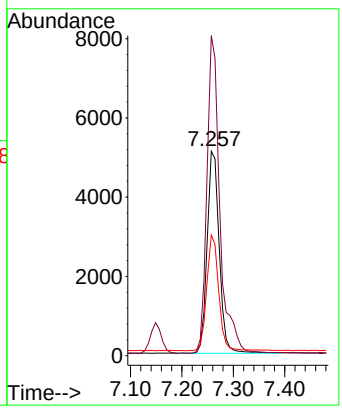


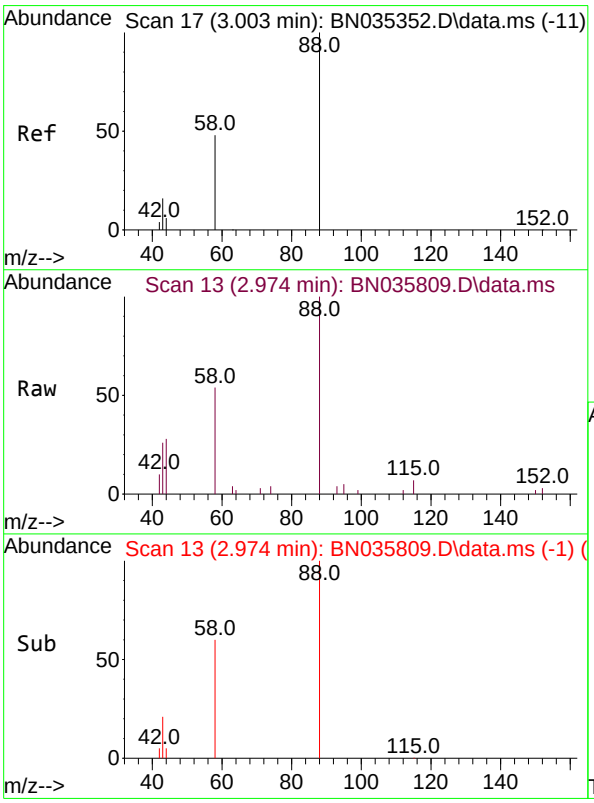
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 8362

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	59.0	49.6	74.4

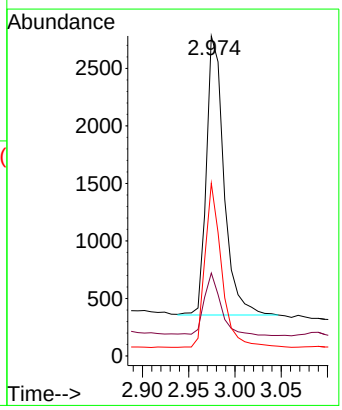


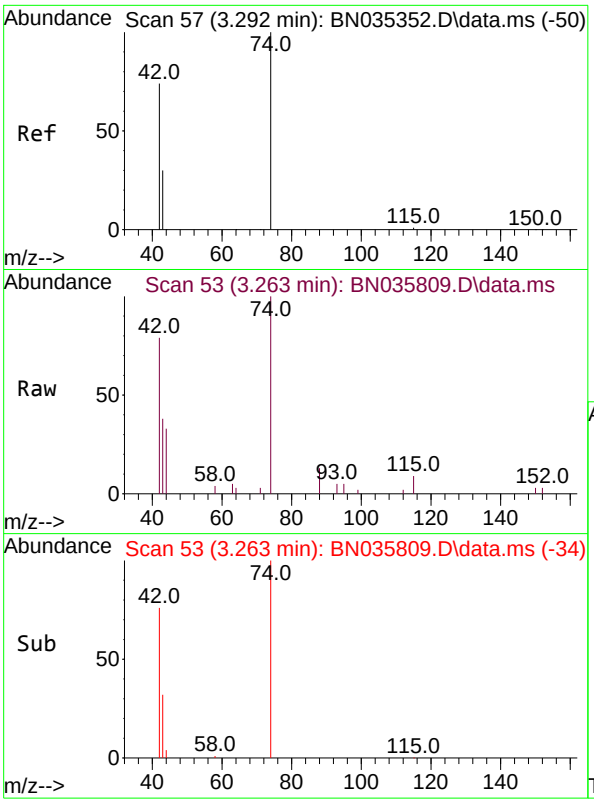


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 88 Resp: 3198

Ion	Ratio	Lower	Upper
88	100		
43	21.6	17.2	25.8
58	55.7	44.5	66.7



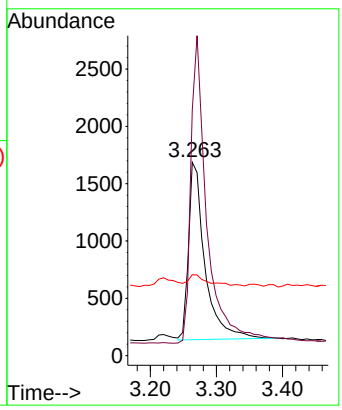


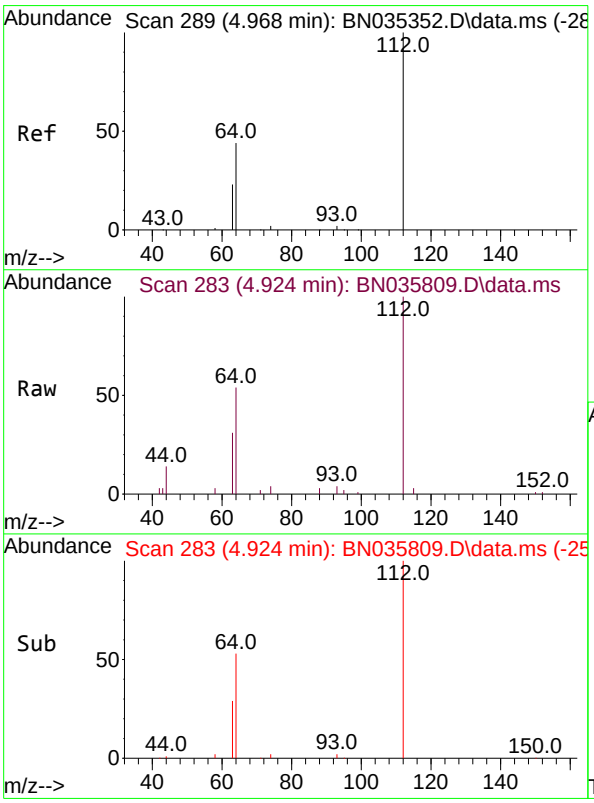
#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2673

Ion	Ratio	Lower	Upper
42	100		
74	172.2	124.9	187.3
44	9.1	2.2	3.4#

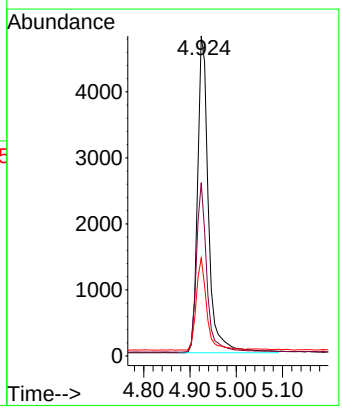


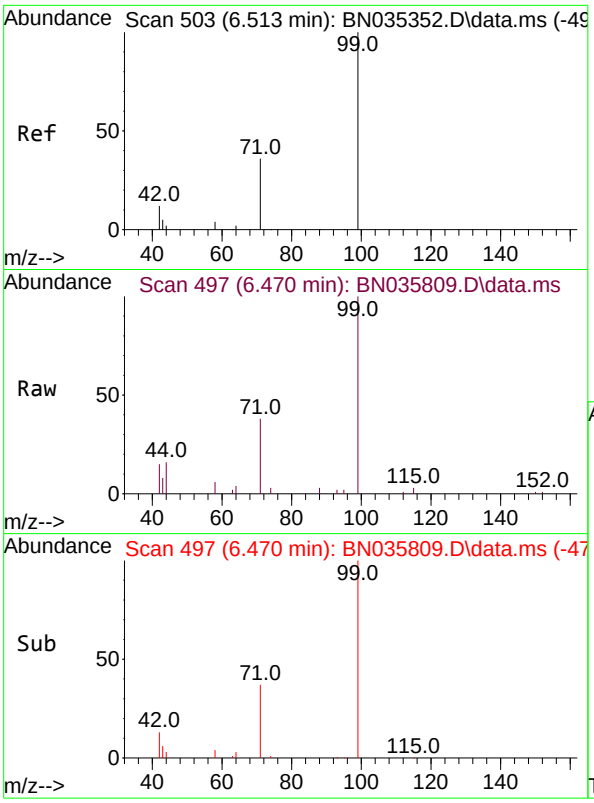


#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:112 Resp: 7909

Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	28.0	21.0	31.6



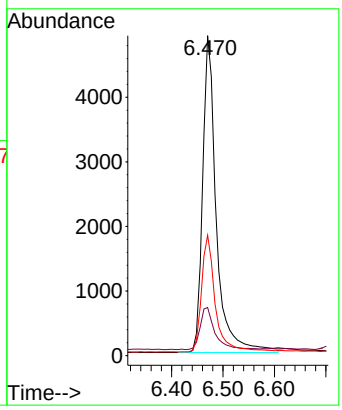


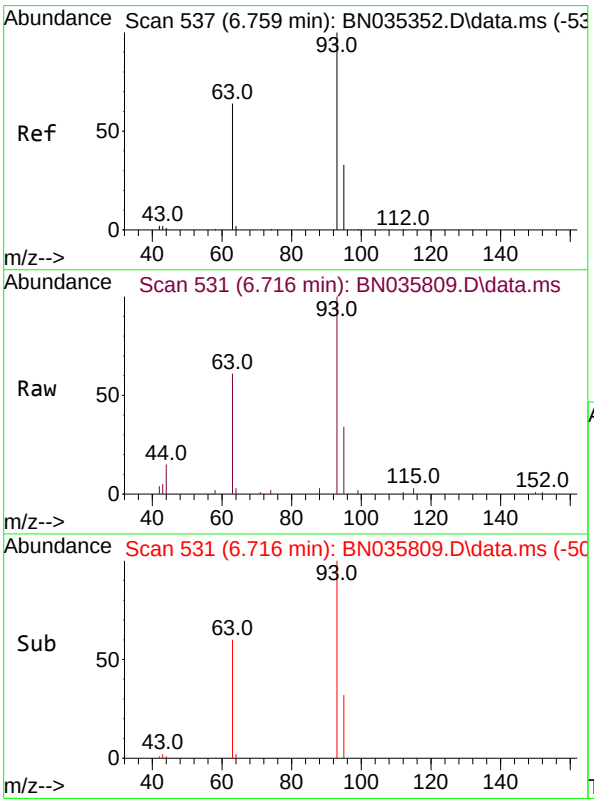
#5
Phenol-d6
Concen: 0.361 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 9085

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	37.3	29.3	43.9

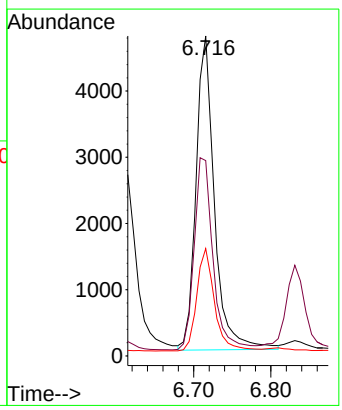


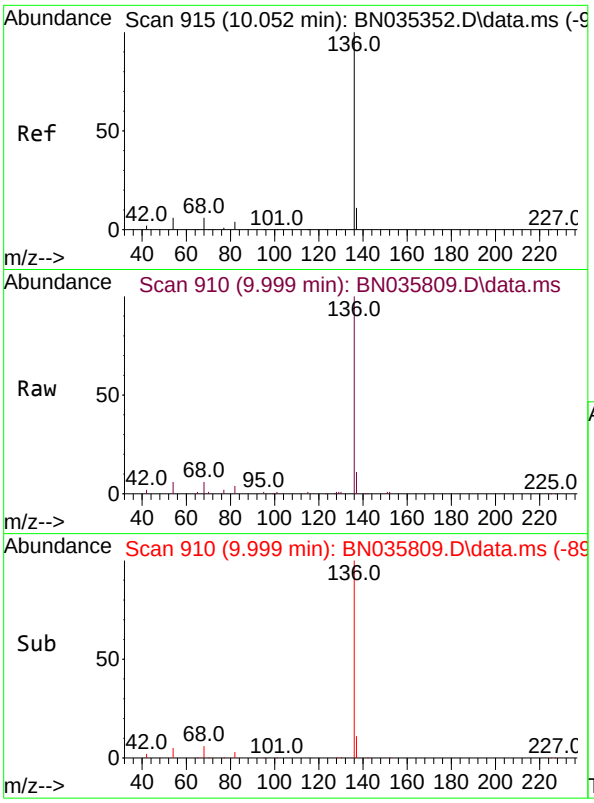


#6
bis(2-Chloroethyl)ether
Concen: 0.372 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 93 Resp: 7863

Ion	Ratio	Lower	Upper
93	100		
63	62.7	50.4	75.6
95	31.6	25.7	38.5



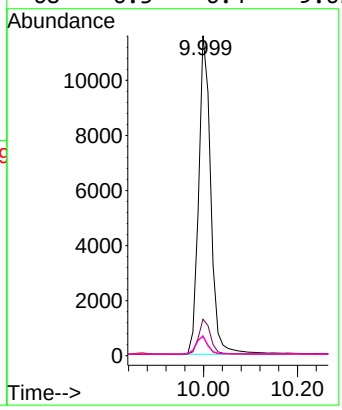


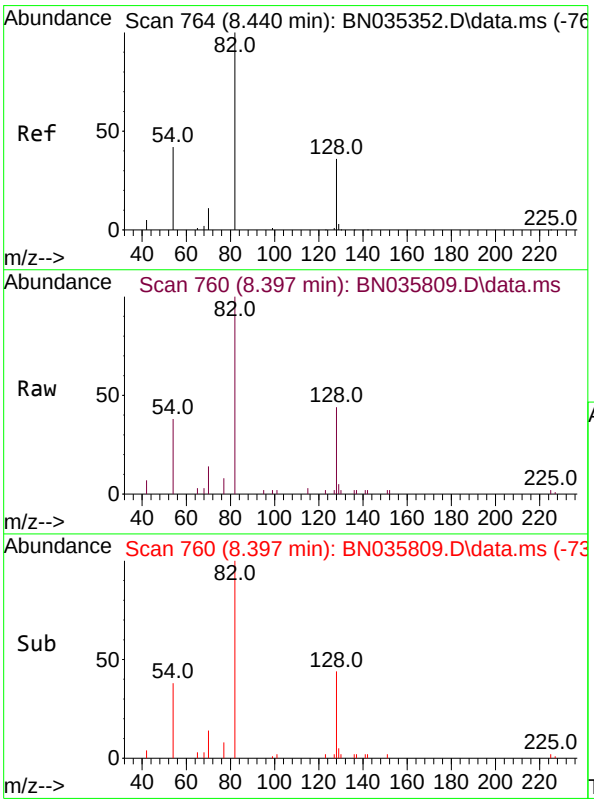
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 20753

Ion	Ratio	Lower	Upper
136	100		
137	11.4	10.2	15.2
54	5.9	6.1	9.1#
68	6.3	6.4	9.6#

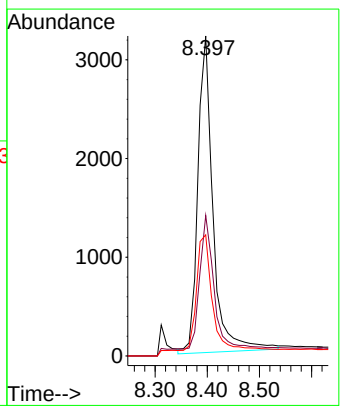


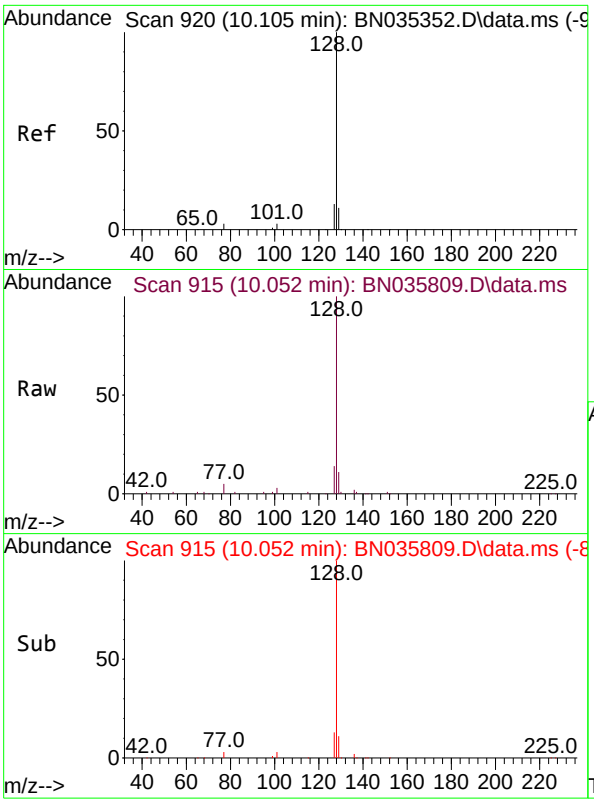


#8
Nitrobenzene-d5
Concen: 0.511 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 82 Resp: 6477

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	37.9	36.7	55.1



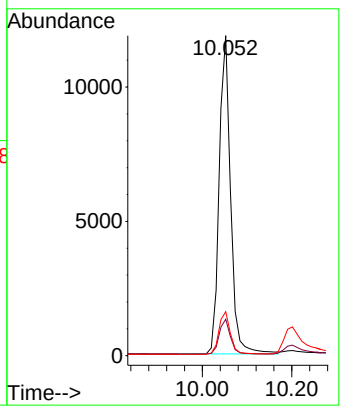


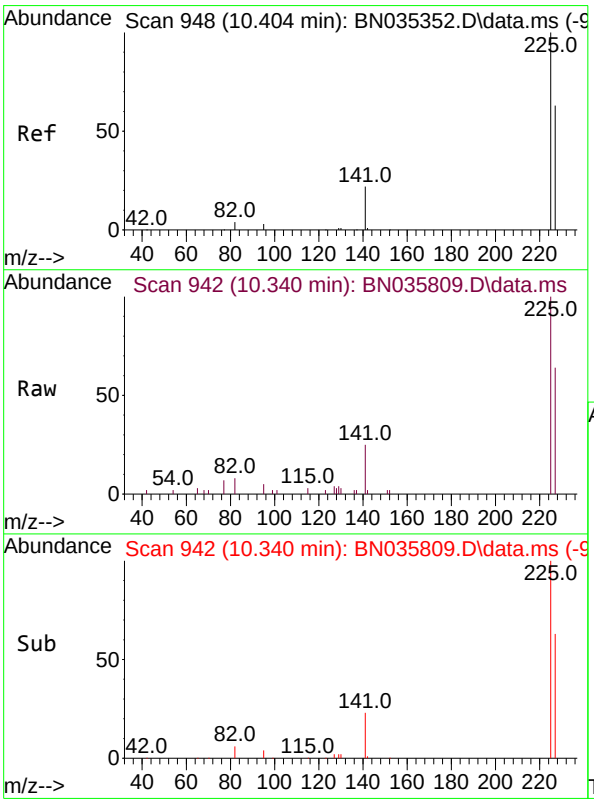
#9
Naphthalene
Concen: 0.385 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 21064

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.8	11.4	17.2

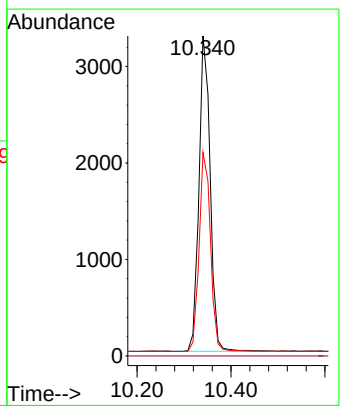


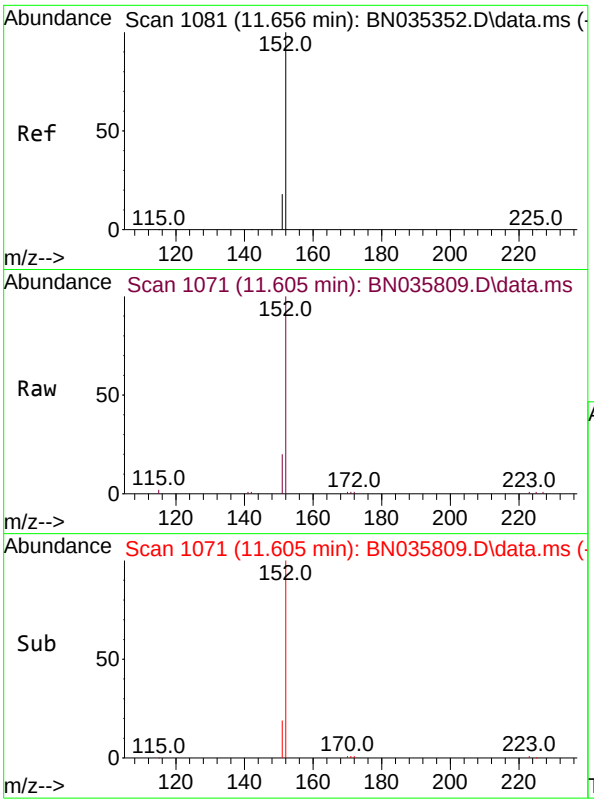


#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:225 Resp: 5424

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



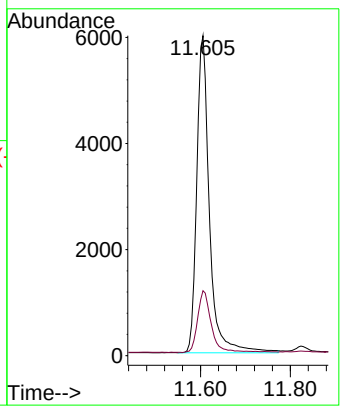


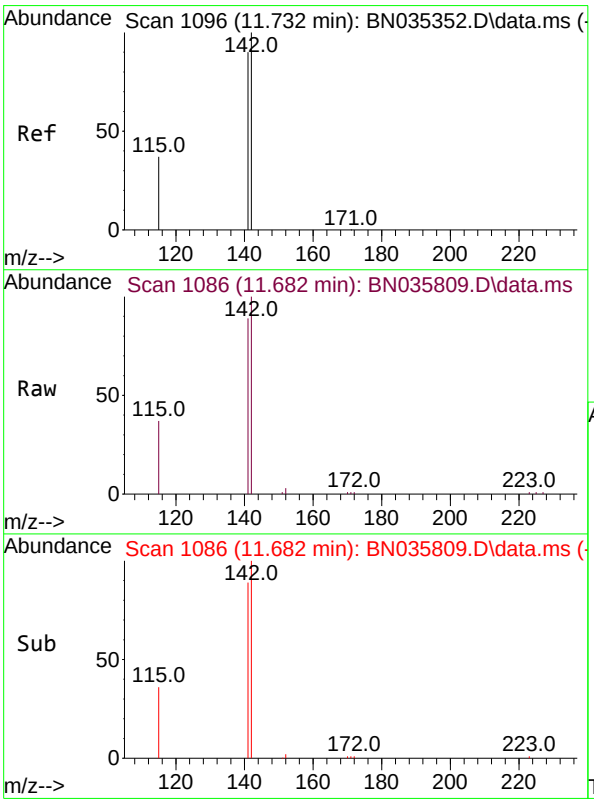
#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 11679

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

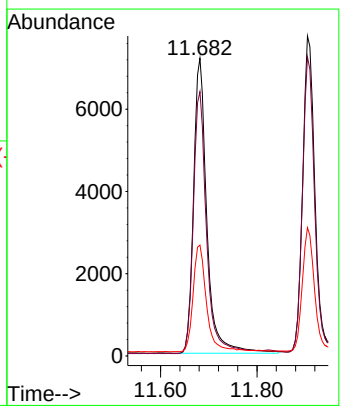


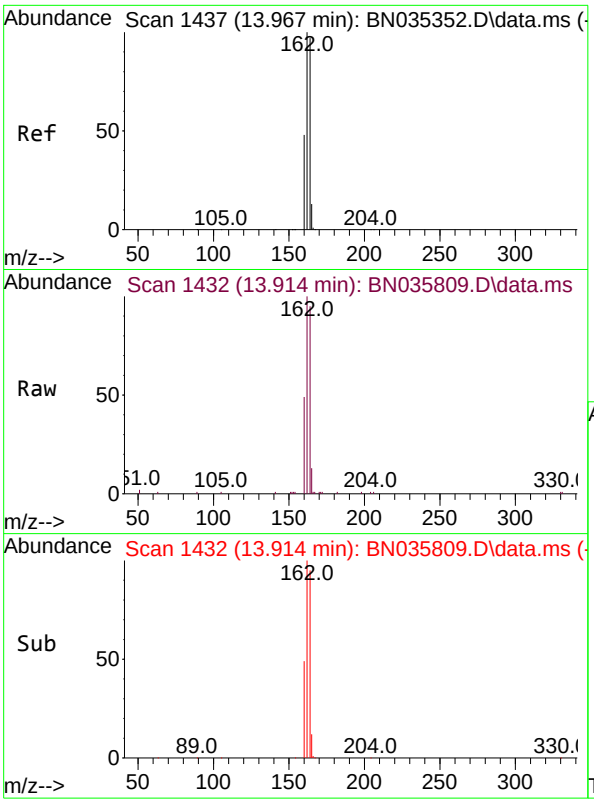


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:142 Resp: 13794

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.2	31.4	47.0



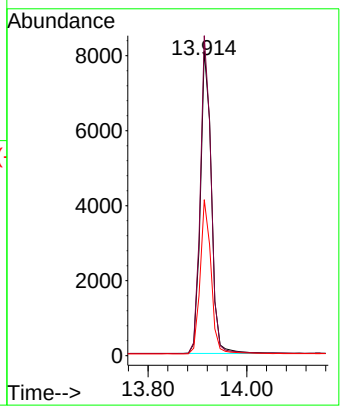


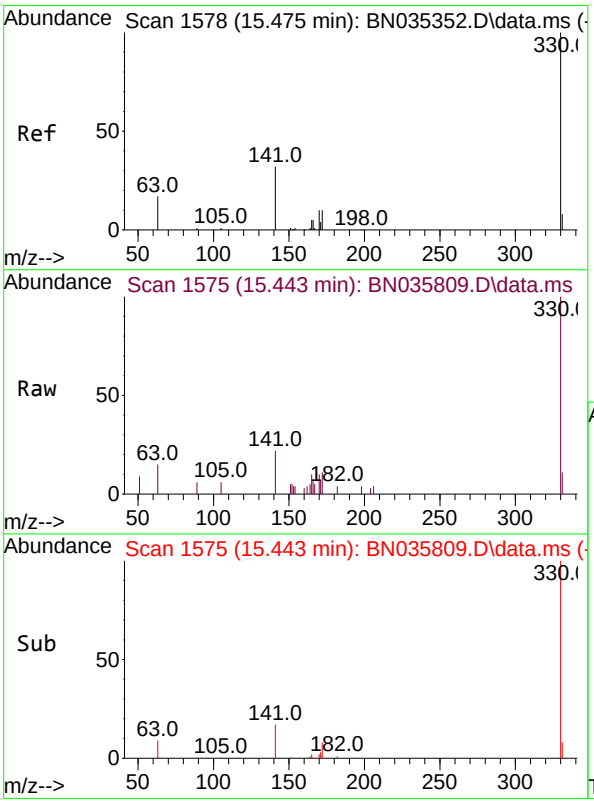
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 12456

Ion	Ratio	Lower	Upper
164	100		
162	104.9	82.2	123.2
160	51.2	40.1	60.1

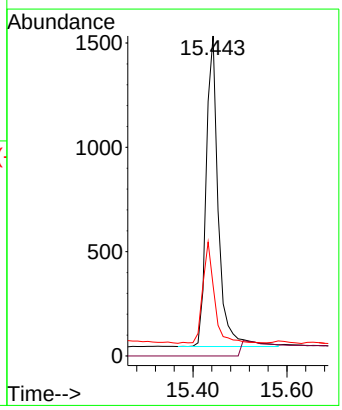


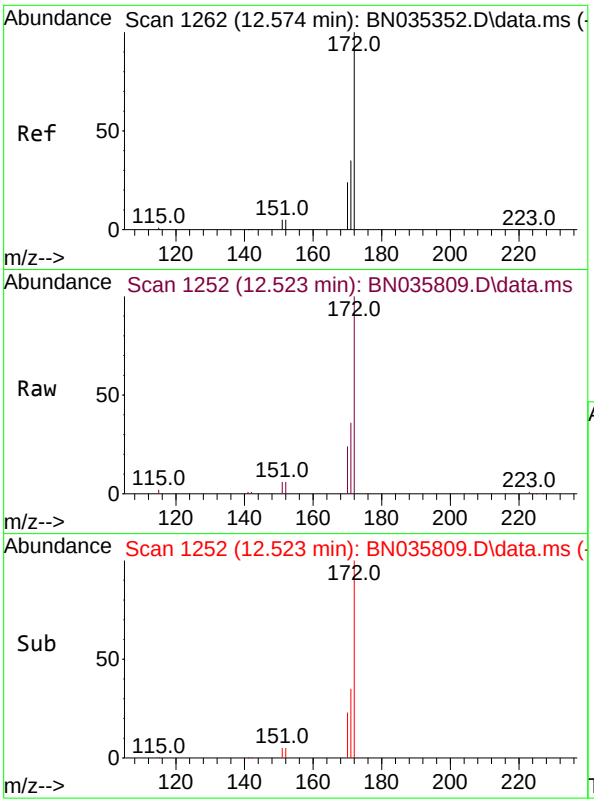


#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:330 Resp: 2792

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.9	26.6	40.0



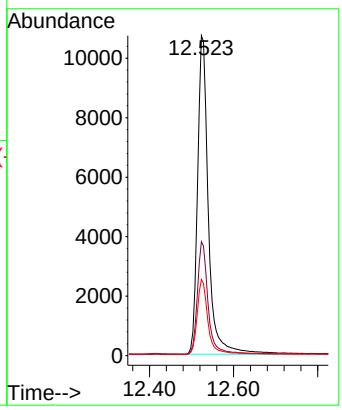


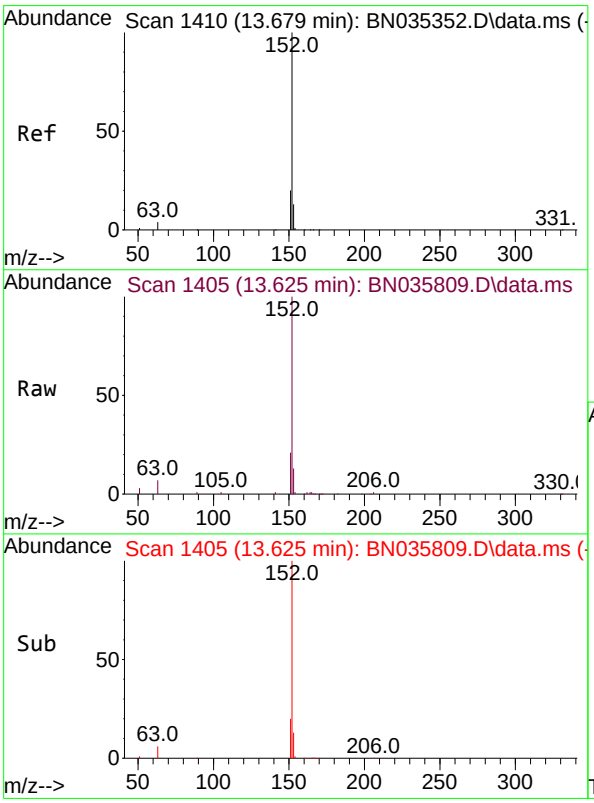
#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 19125

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	23.8	19.8	29.8

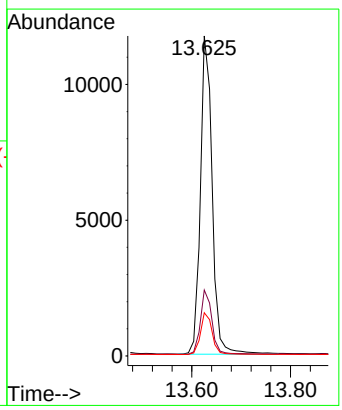


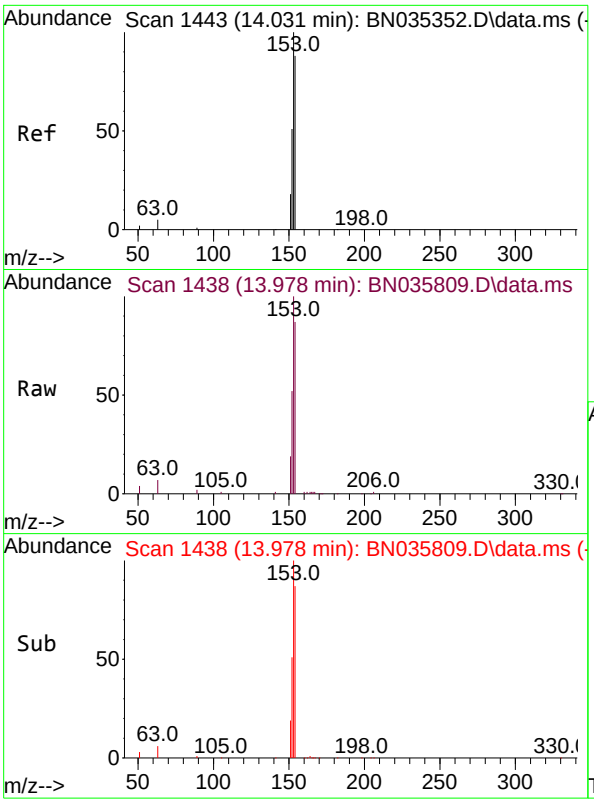


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:152 Resp: 19447

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6



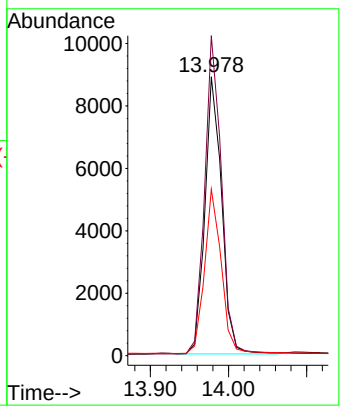


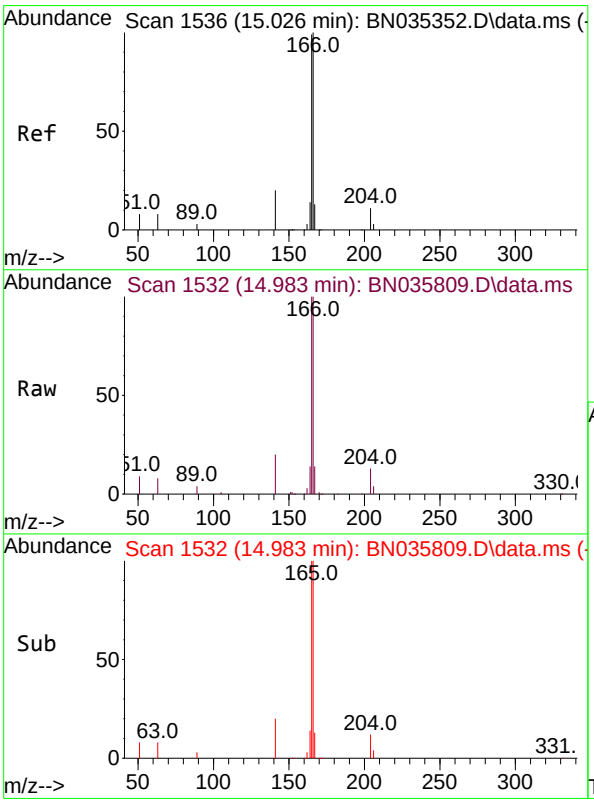
#17
Acenaphthene
Concen: 0.382 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 13250

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	59.3	49.0	73.6

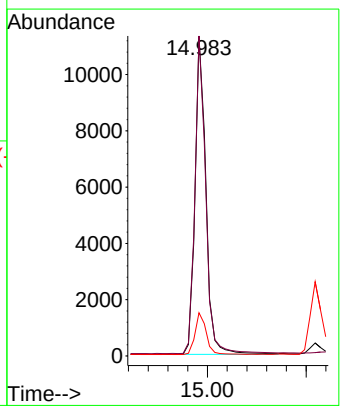


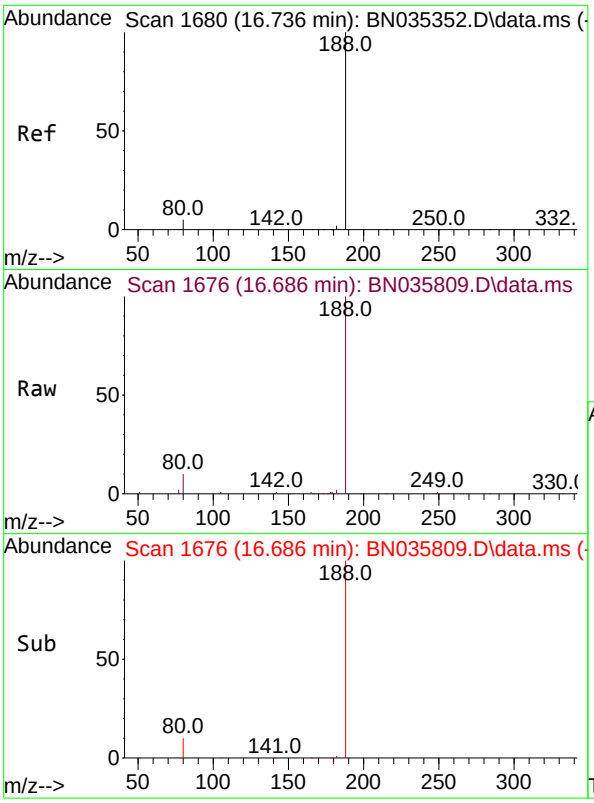


#18
Fluorene
Concen: 0.348 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:166 Resp: 17299

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	13.4	10.8	16.2



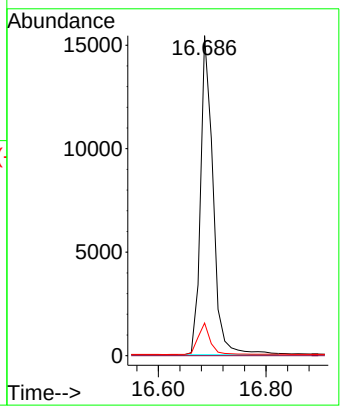


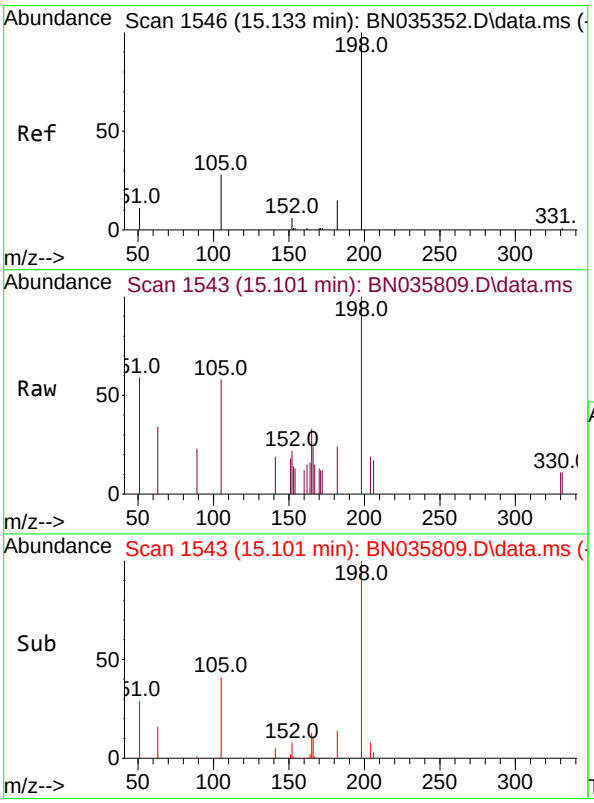
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 24922

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	4.6	6.8#

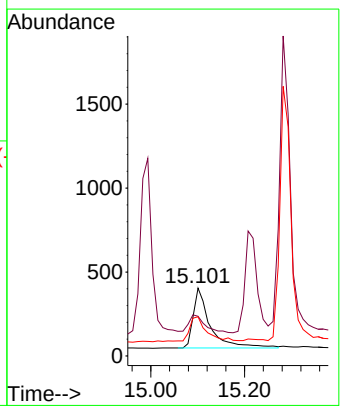


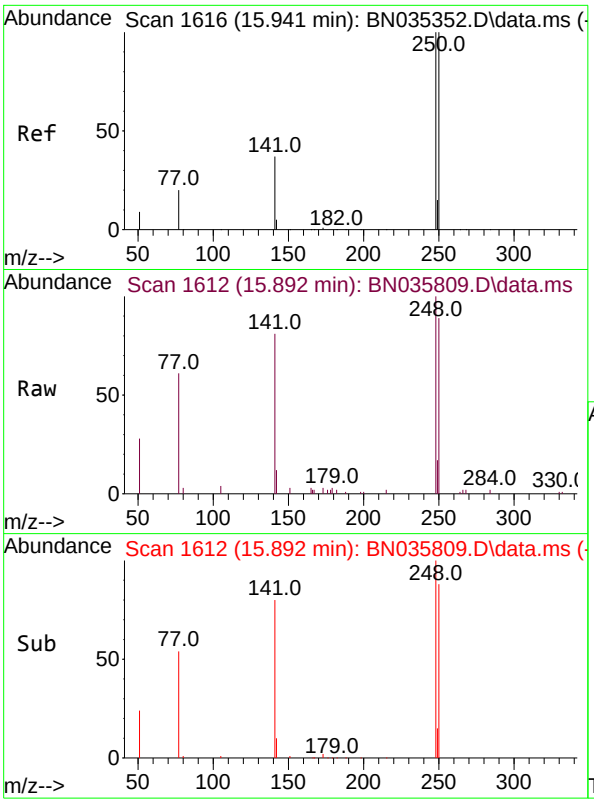


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.101 min Scan# 1543
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:198 Resp: 892

Ion	Ratio	Lower	Upper
198	100		
51	58.7	46.5	69.7
105	57.9	45.3	67.9



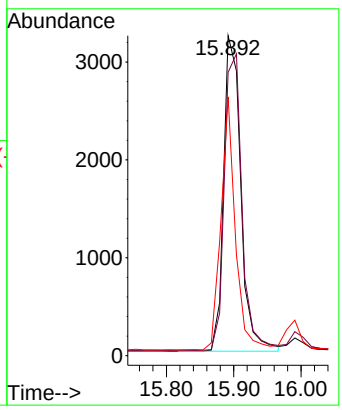


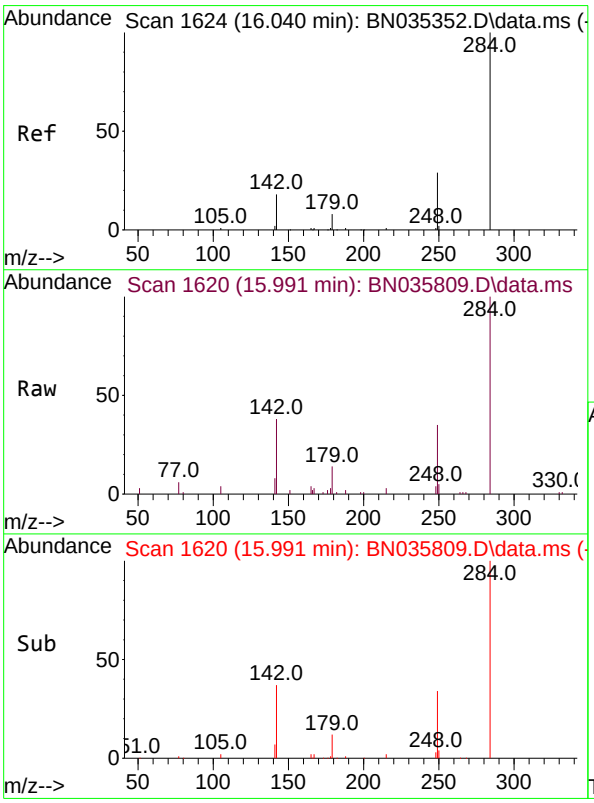
#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.892 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 5717

Ion	Ratio	Lower	Upper
248	100		
250	88.5	80.6	120.8
141	80.9	31.5	47.3#

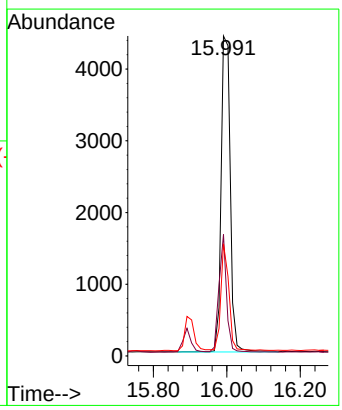


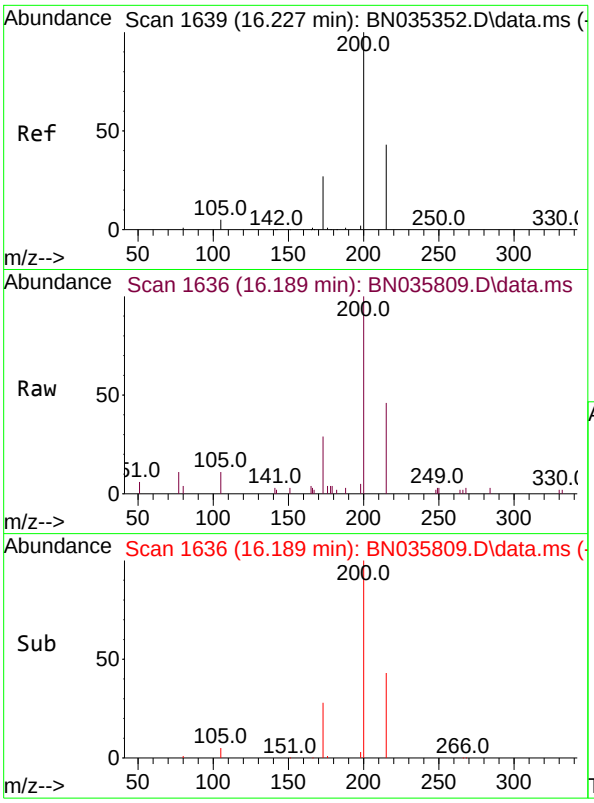


#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:284 Resp: 7638

Ion	Ratio	Lower	Upper
284	100		
142	31.3	26.7	40.1
249	29.6	24.6	36.8



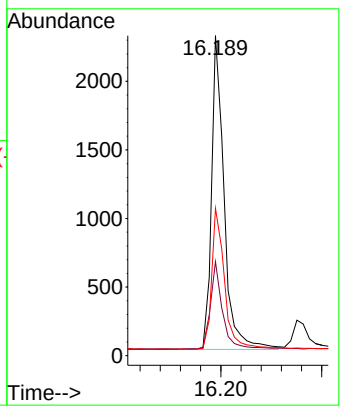


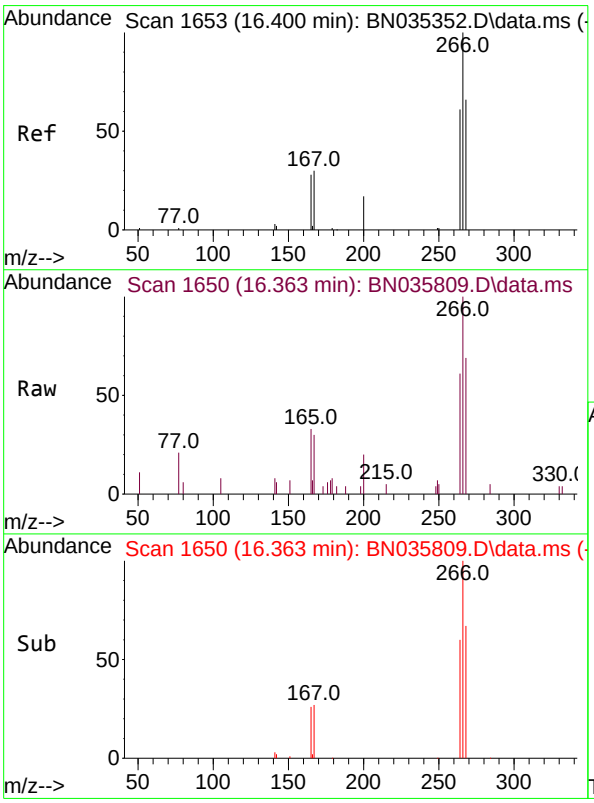
#23
Atrazine
Concen: 0.381 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 3955

Ion	Ratio	Lower	Upper
200	100		
173	29.4	24.1	36.1
215	46.0	36.9	55.3

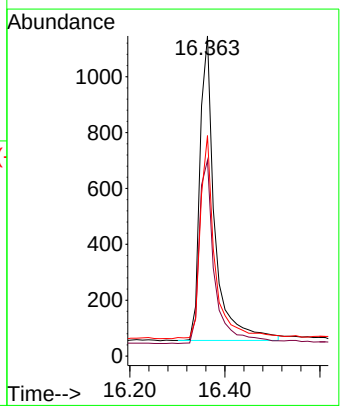


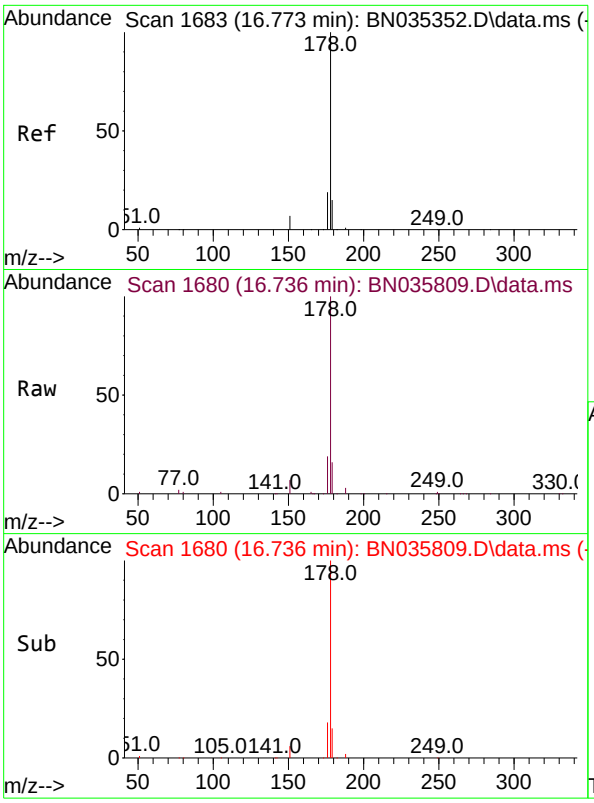


#24
Pentachlorophenol
Concen: 0.318 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:266 Resp: 2368

Ion	Ratio	Lower	Upper
266	100		
264	62.2	42.3	63.5
268	65.5	43.3	64.9#



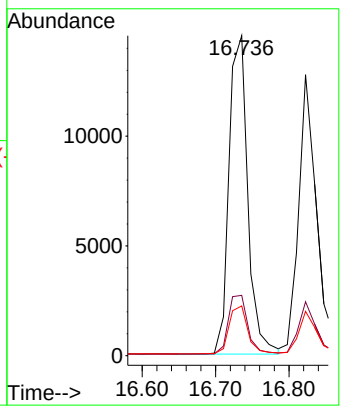


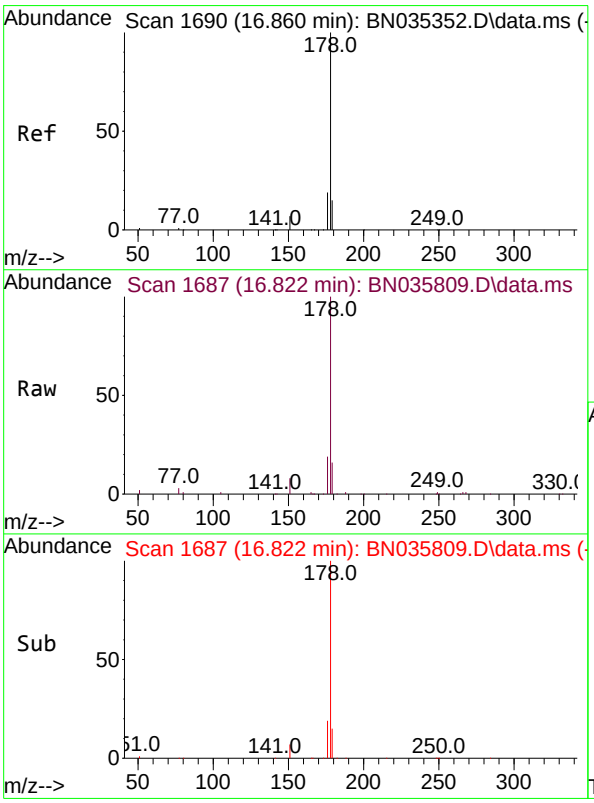
#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 25787

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.3	18.5

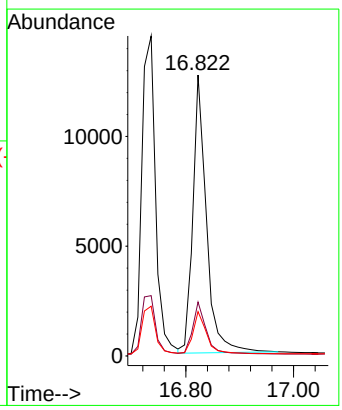


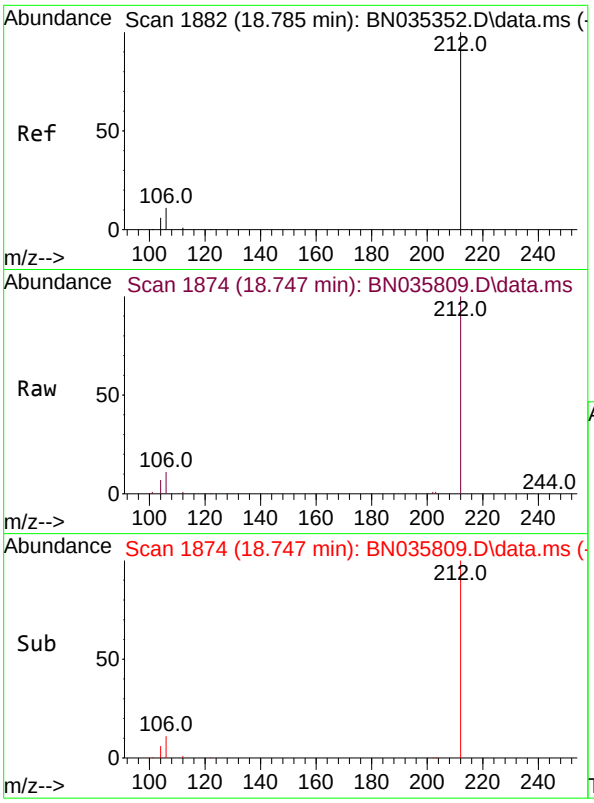


#26
Anthracene
Concen: 0.360 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:178 Resp: 22279

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.4	12.6	18.8



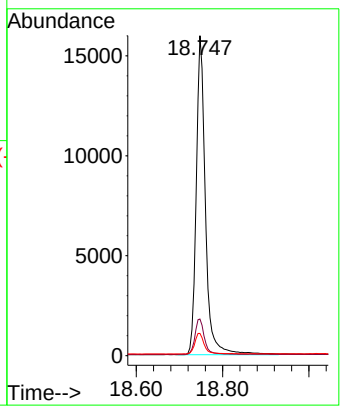


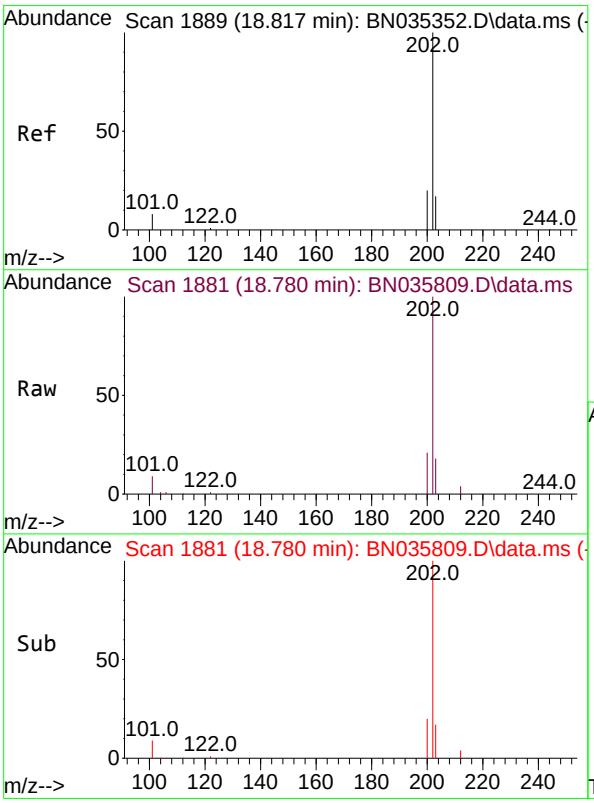
#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 23606

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

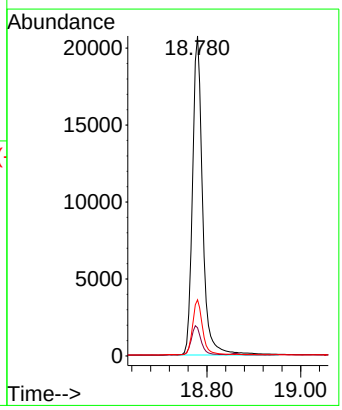


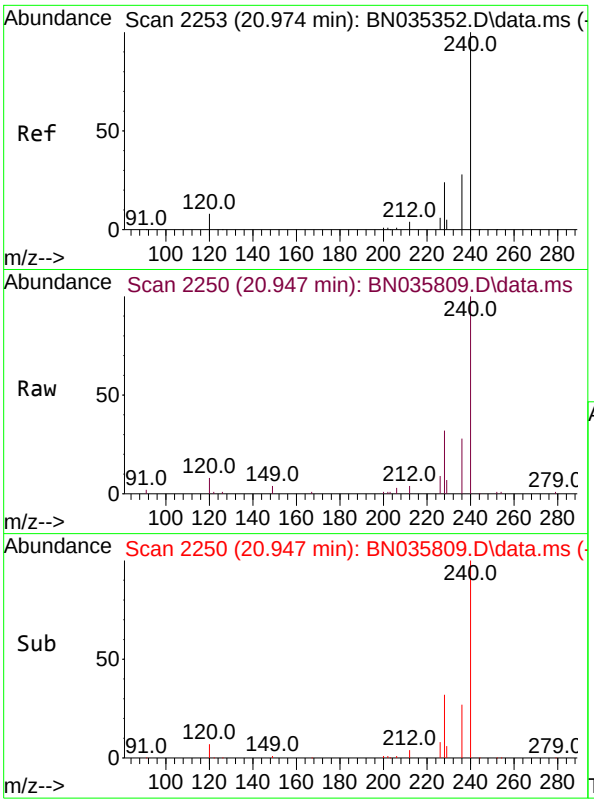


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 31096

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.9	13.7	20.5



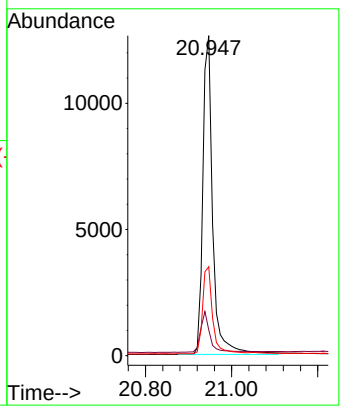


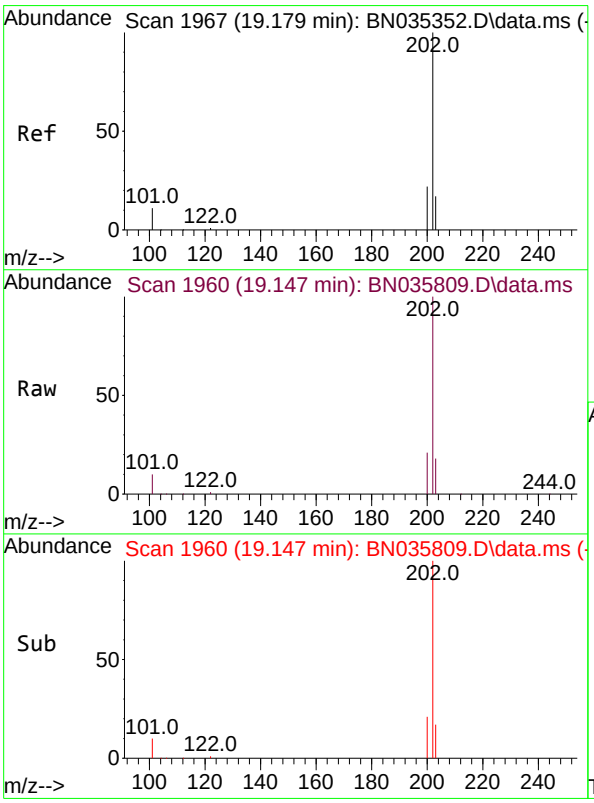
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 20198

Ion	Ratio	Lower	Upper
240	100		
120	8.0	7.9	11.9
236	27.8	22.9	34.3

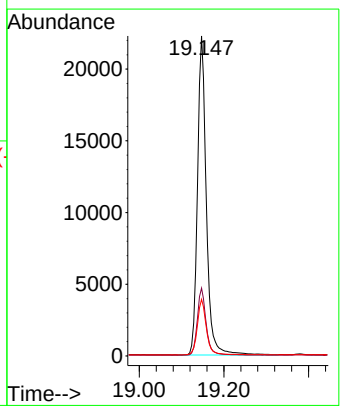


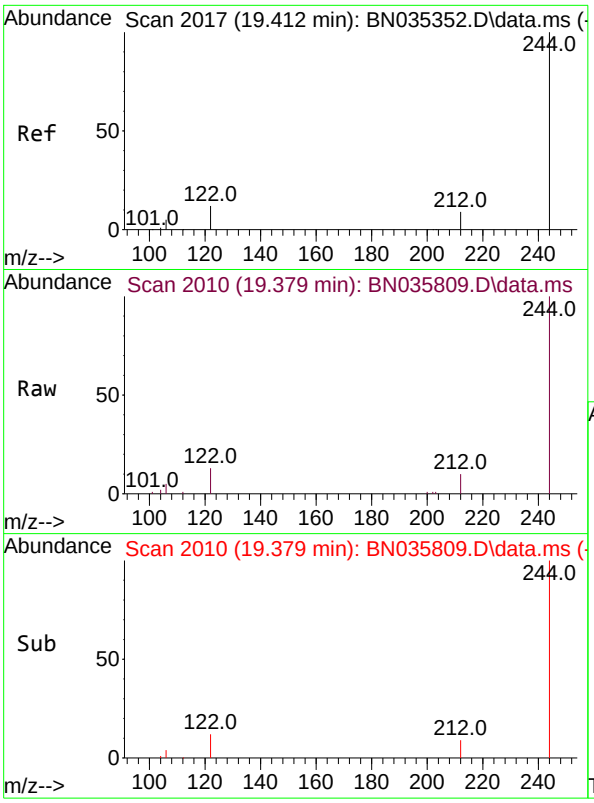


#30
Pyrene
Concen: 0.432 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 32211

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5



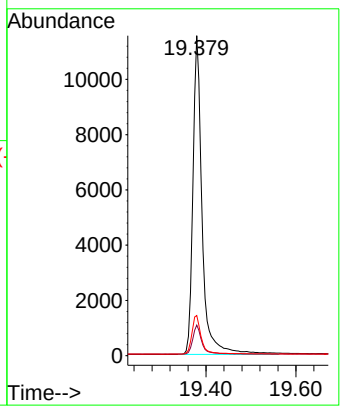


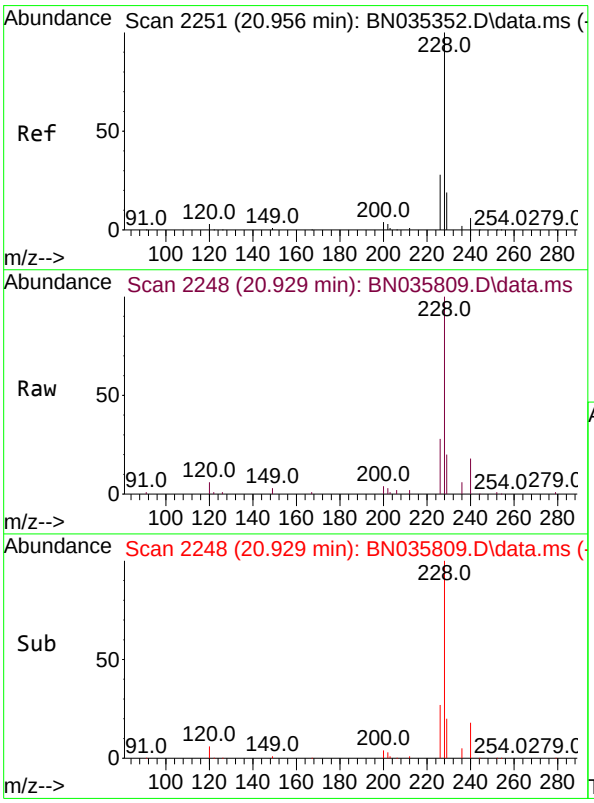
#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 16501

Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	12.5	10.3	15.5

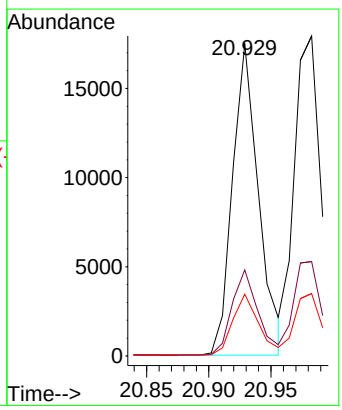


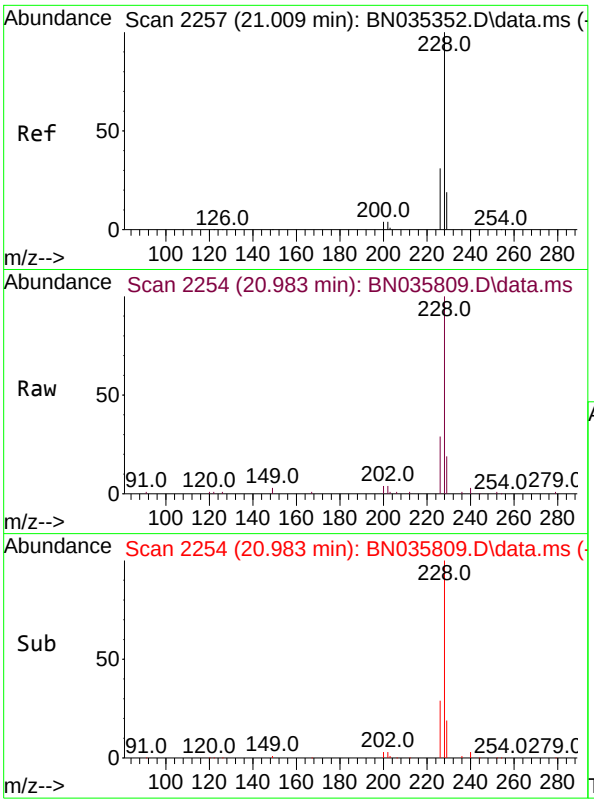


#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:228 Resp: 25428

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.8	15.8	23.8



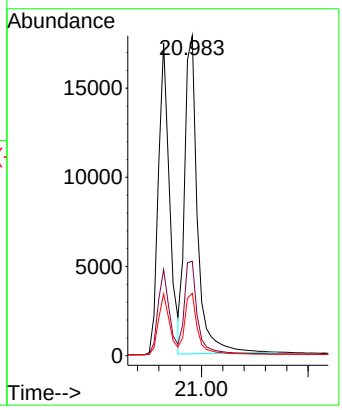


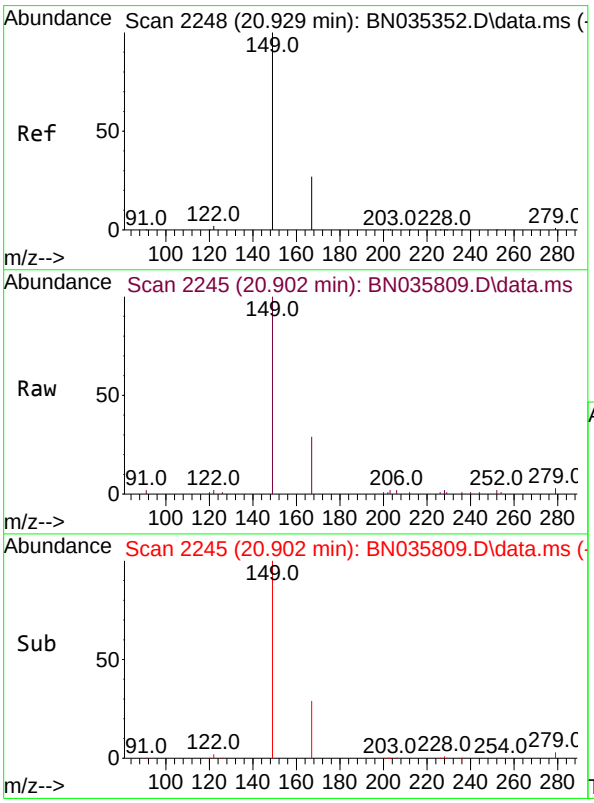
#33
Chrysene
Concen: 0.408 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 29722

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.6	37.0
229	19.5	15.9	23.9

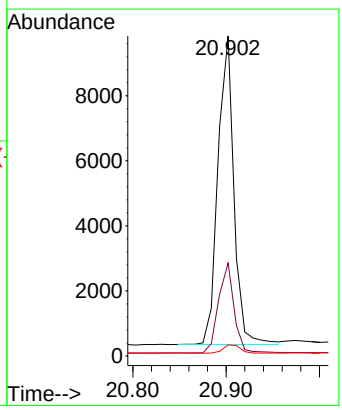


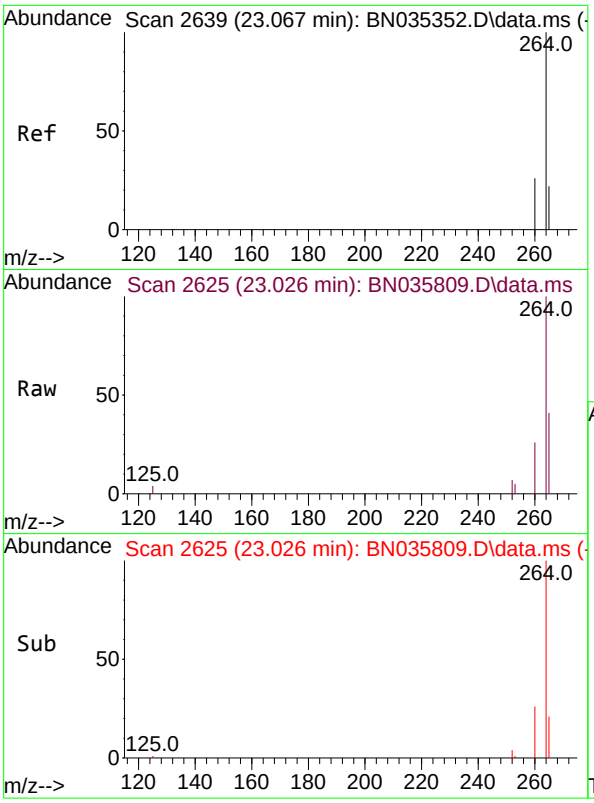


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:149 Resp: 11220

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	2.9	2.7	4.1



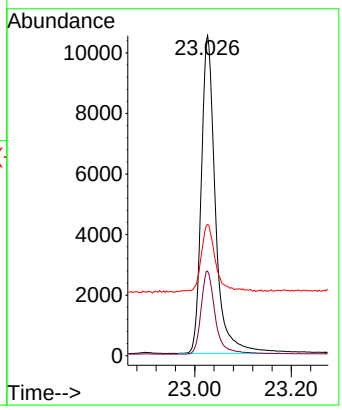


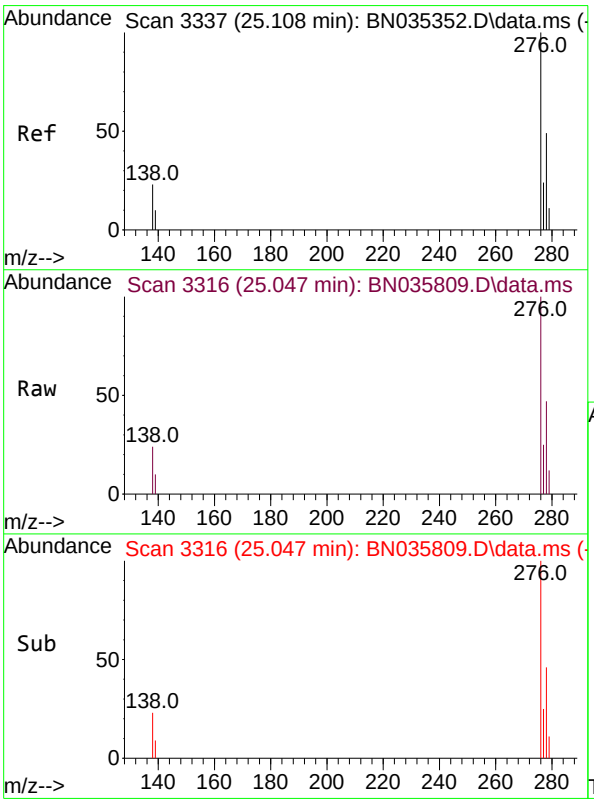
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 21431

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.4	32.2
265	41.0	40.2	60.4

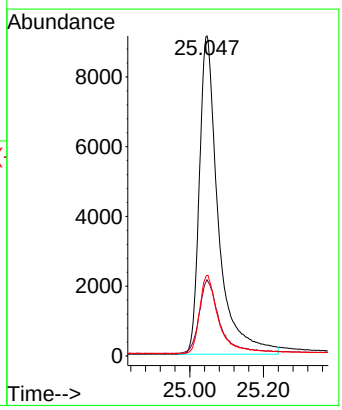


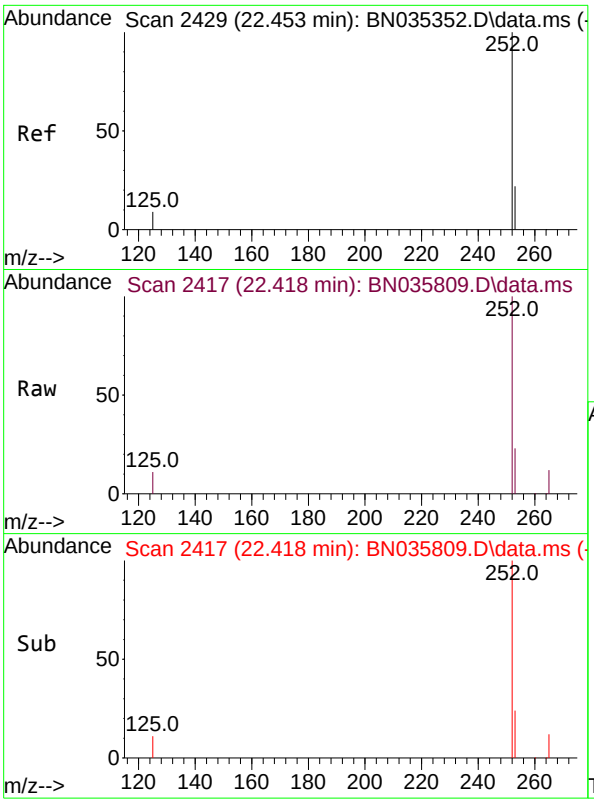


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:276 Resp: 32558

Ion	Ratio	Lower	Upper
276	100		
138	24.5	19.4	29.0
277	24.7	19.8	29.6



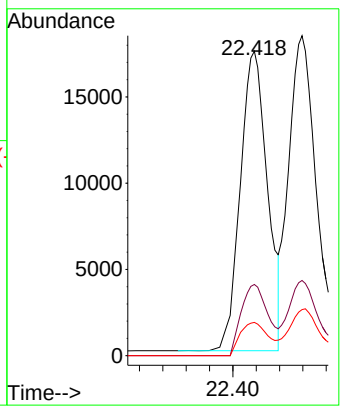


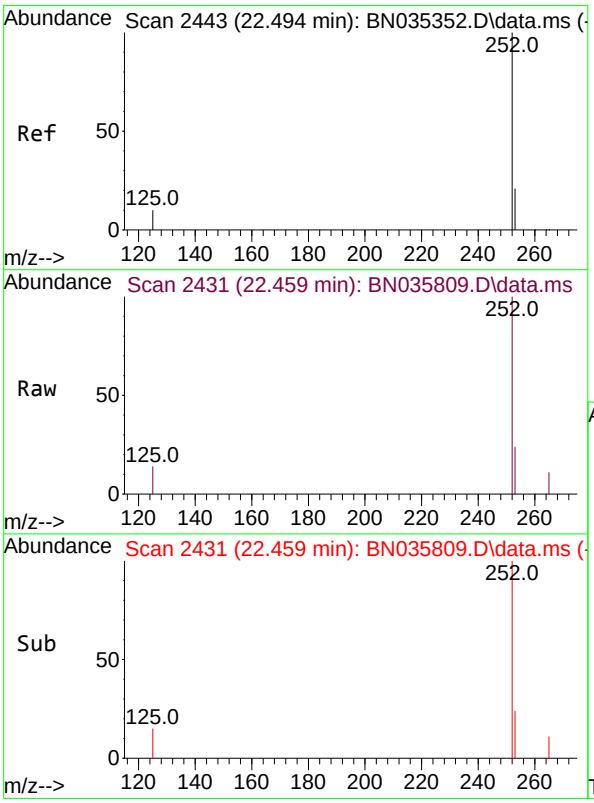
#37
Benzo(b)fluoranthene
Concen: 0.559 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 43862

Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.6	29.4
125	10.9	9.6	14.4

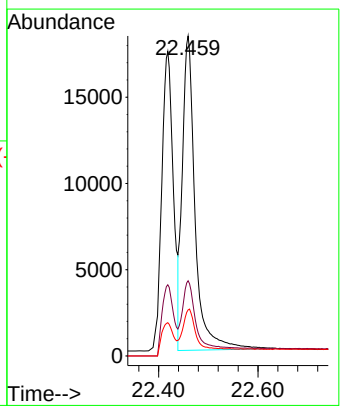


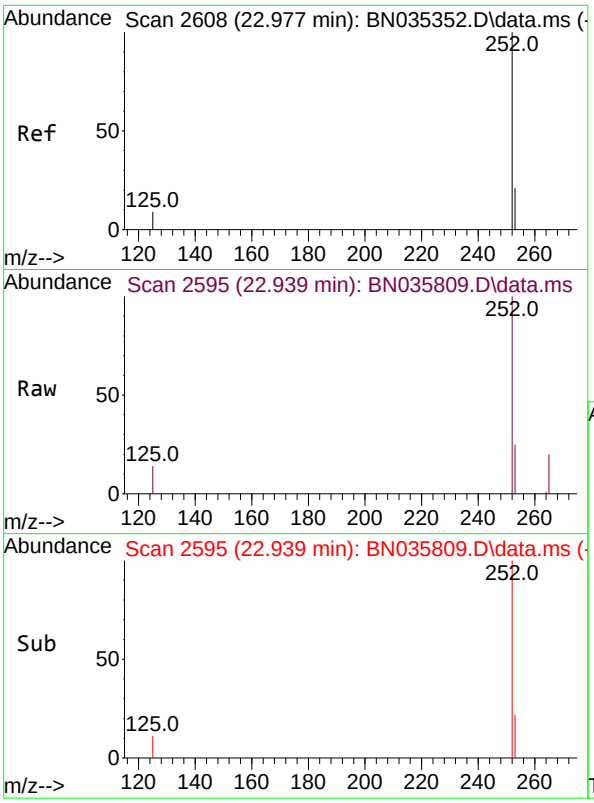


#38
Benzo(k)fluoranthene
Concen: 0.426 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:252 Resp: 32848

Ion	Ratio	Lower	Upper
252	100		
253	23.5	19.5	29.3
125	14.4	10.2	15.4



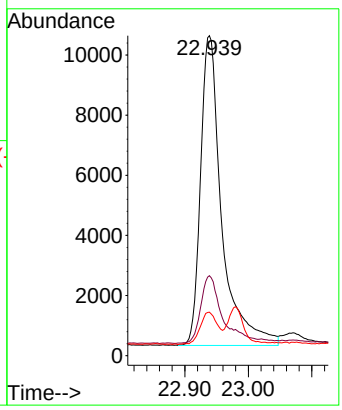


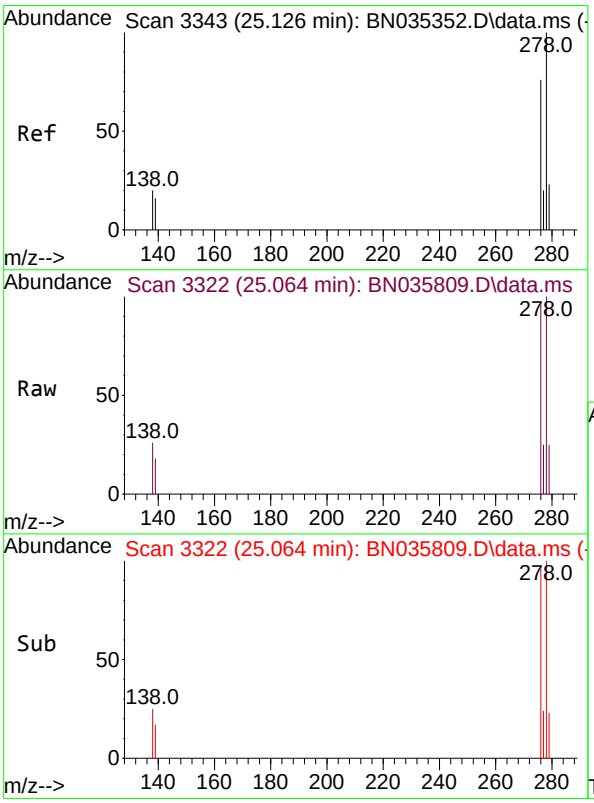
#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 23952

Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.2	30.4
125	13.6	10.9	16.3

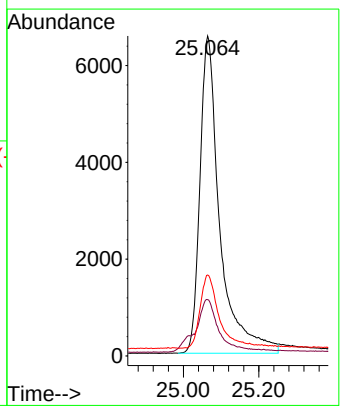


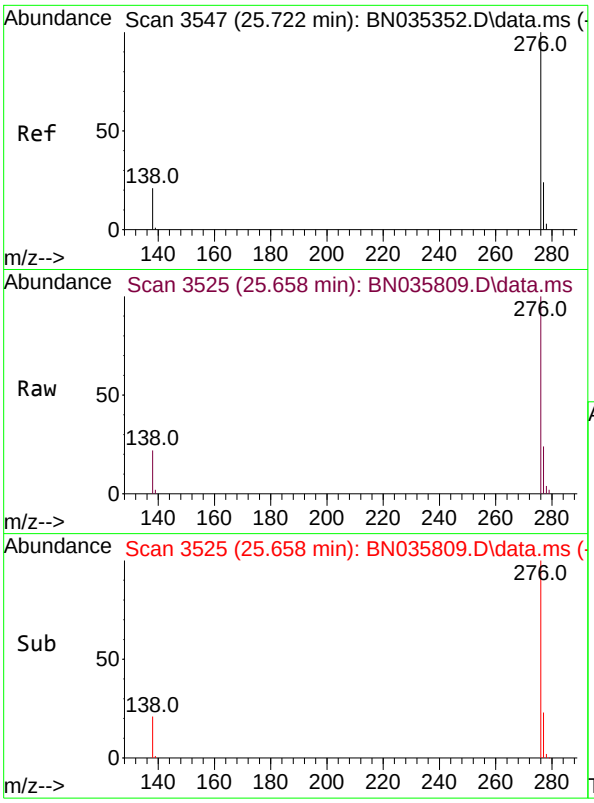


#40
Dibenzo(a,h)anthracene
Concen: 0.364 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:278 Resp: 24090

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.3	20.5	30.7



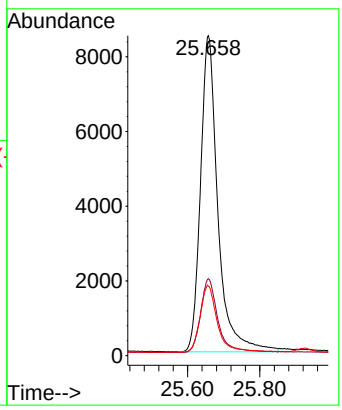


#41
Benzo(g,h,i)perylene
Concen: 0.410 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 28353

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.9	29.9
138	21.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

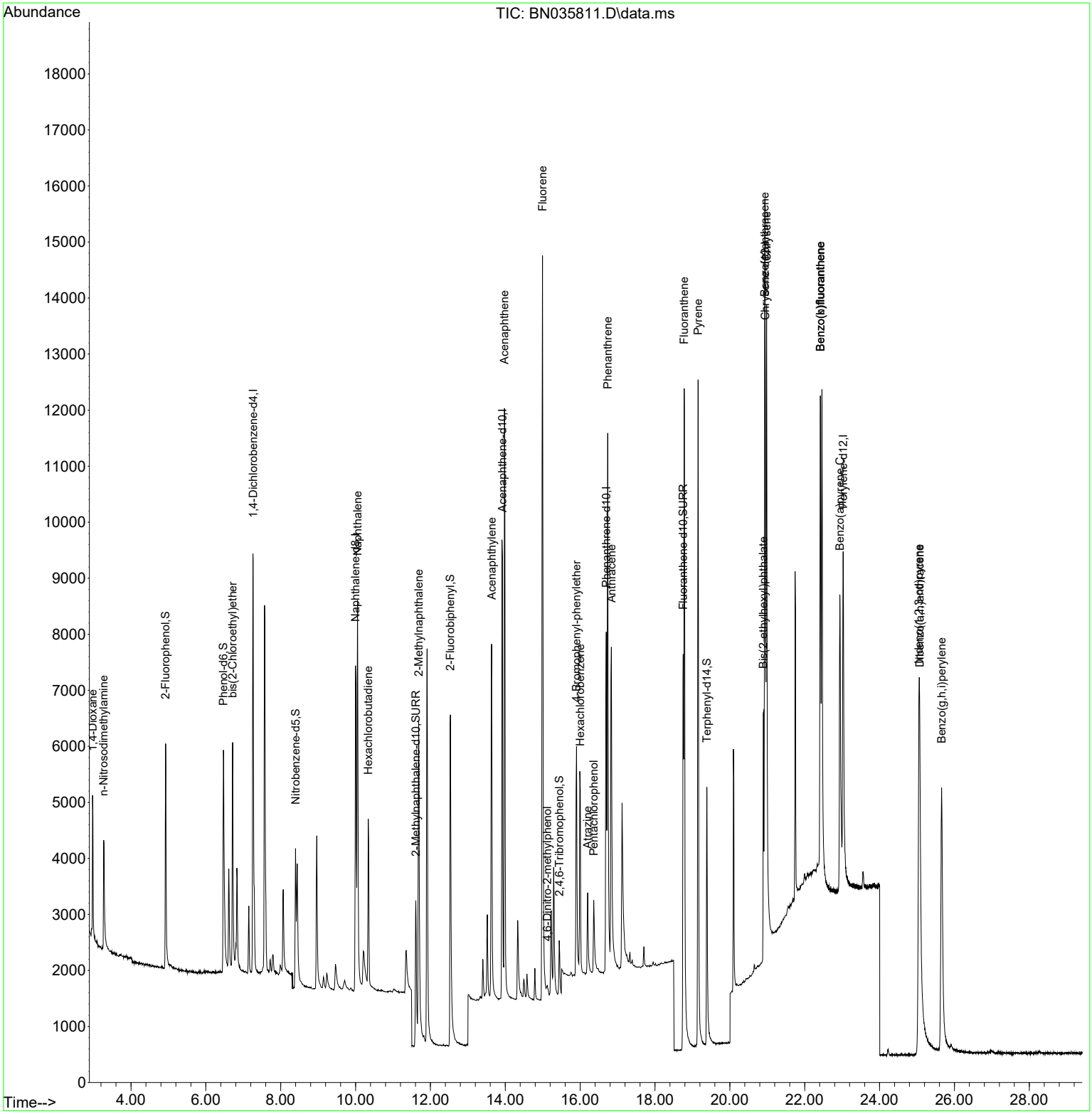
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng		0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng		-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8569	0.400	ng		0.00
35) Perylene-d12	23.029	264	8879	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3699	0.372	ng		-0.01
5) Phenol-d6	6.470	99	5118	0.428	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3046	0.526	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5128	0.346	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1155	0.302	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8203	0.403	ng		-0.01
27) Fluoranthene-d10	18.752	212	10340	0.336	ng		0.00
31) Terphenyl-d14	19.384	244	6888	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1814	0.478	ng		98
3) n-Nitrosodimethylamine	3.270	42	1302	0.412	ng	#	91
6) bis(2-Chloroethyl)ether	6.715	93	3672	0.366	ng		99
9) Naphthalene	10.052	128	9671	0.387	ng		99
10) Hexachlorobutadiene	10.340	225	2548	0.442	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6060	0.338	ng		100
16) Acenaphthylene	13.636	152	8415	0.372	ng		100
17) Acenaphthene	13.978	154	5782	0.385	ng		99
18) Fluorene	14.993	166	7456	0.347	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	244	0.229	ng	#	7
21) 4-Bromophenyl-phenylether	15.904	248	2379	0.375	ng	#	93
22) Hexachlorobenzene	16.003	284	3393	0.455	ng		97
23) Atrazine	16.202	200	1640	0.363	ng		96
24) Pentachlorophenol	16.363	266	1040	0.321	ng		87
25) Phenanthrene	16.735	178	10950	0.367	ng		99
26) Anthracene	16.835	178	9488	0.352	ng		100
28) Fluoranthene	18.780	202	13421	0.334	ng		99
30) Pyrene	19.151	202	13577	0.429	ng		100
32) Benzo(a)anthracene	20.929	228	9796	0.327	ng		99
33) Chrysene	20.982	228	13234	0.428	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4719	0.399	ng		100
36) Indeno(1,2,3-cd)pyrene	25.049	276	12494	0.360	ng		99
37) Benzo(b)fluoranthene	22.418	252	16964	0.522	ng	#	95
38) Benzo(k)fluoranthene	22.418	252	17845	0.558	ng		96
39) Benzo(a)pyrene	22.939	252	10000	0.374	ng	#	91
40) Dibenzo(a,h)anthracene	25.073	278	8960	0.327	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11606	0.405	ng		99

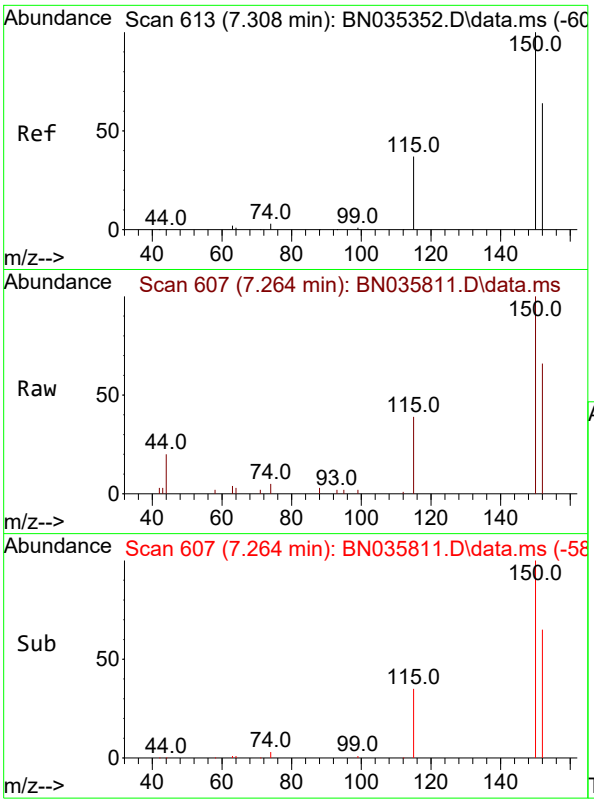
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



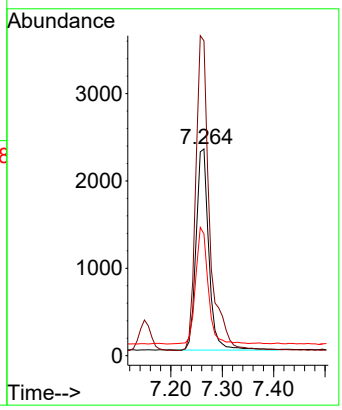


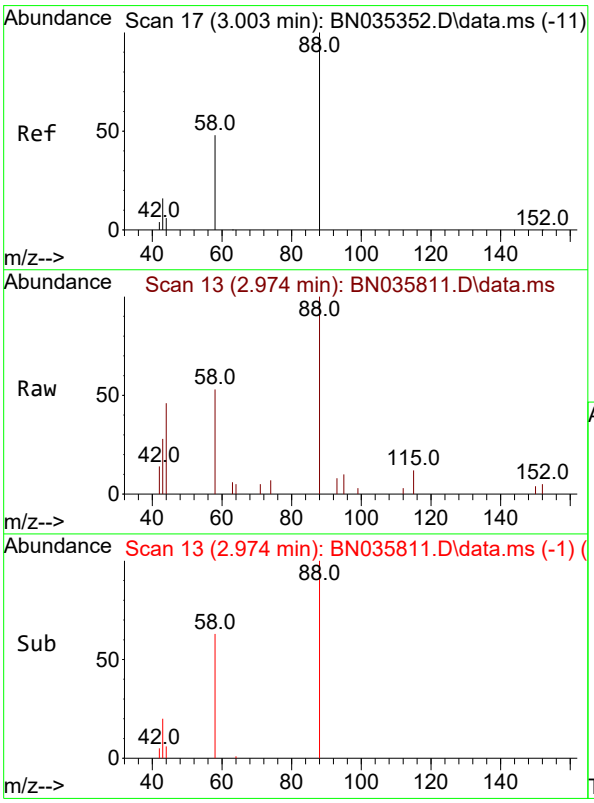
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3972

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.0	186.0
115	58.9	49.6	74.4

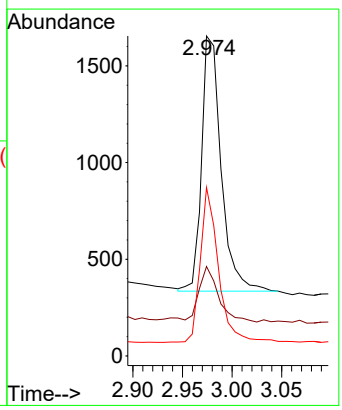


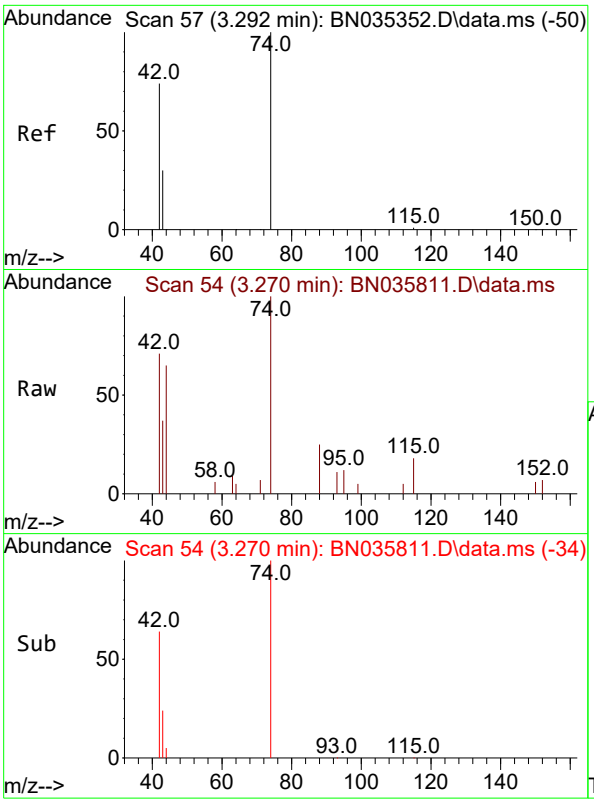


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.2	44.5	66.7



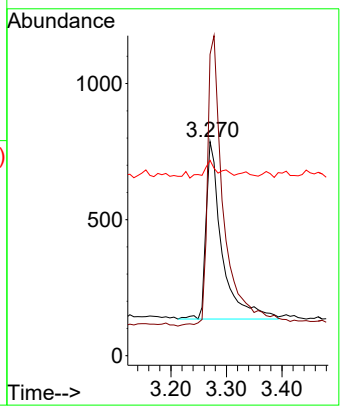


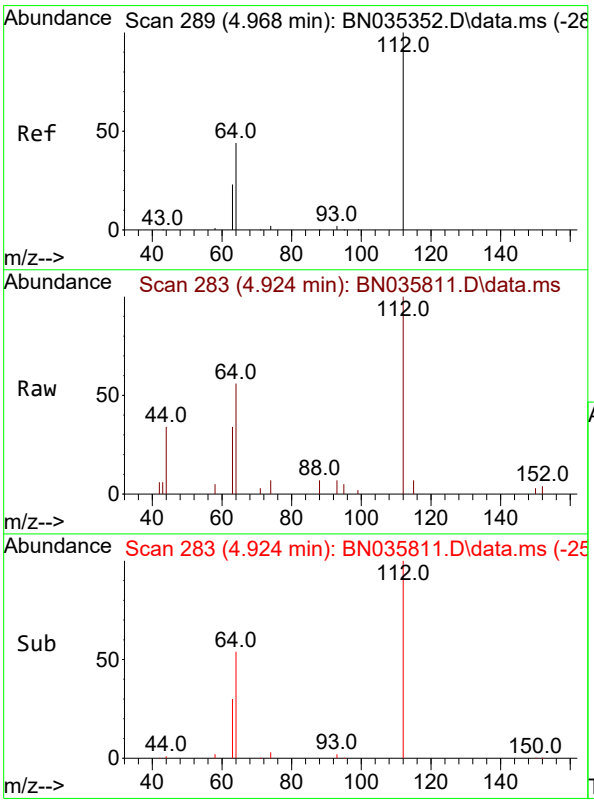
#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1302

Ion	Ratio	Lower	Upper
42	100		
74	167.4	124.9	187.3
44	5.4	2.2	3.4#

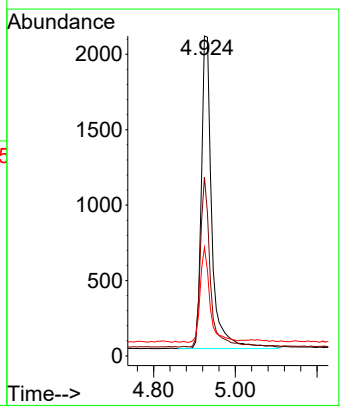


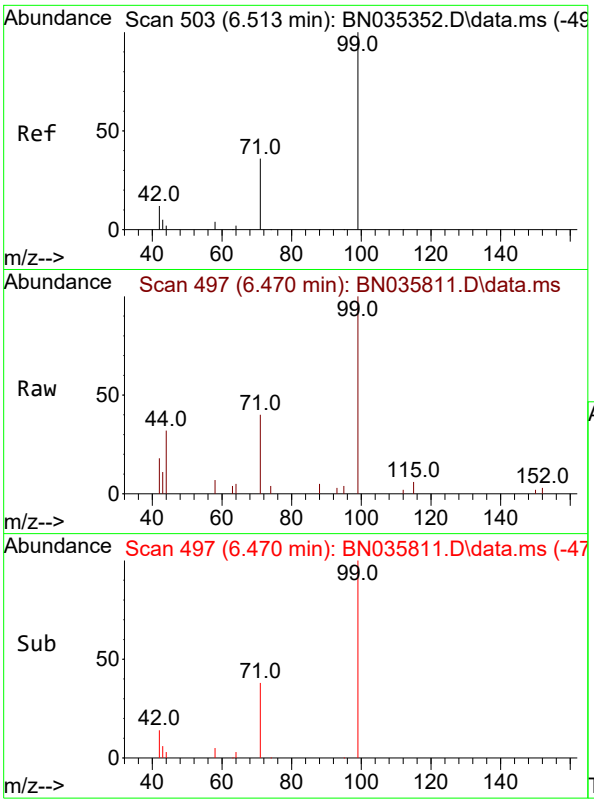


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



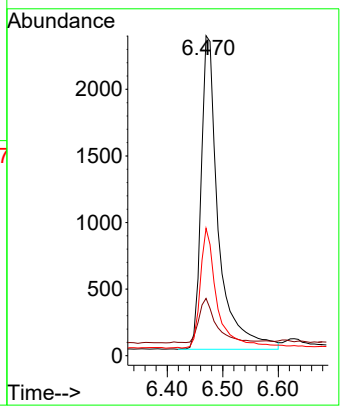


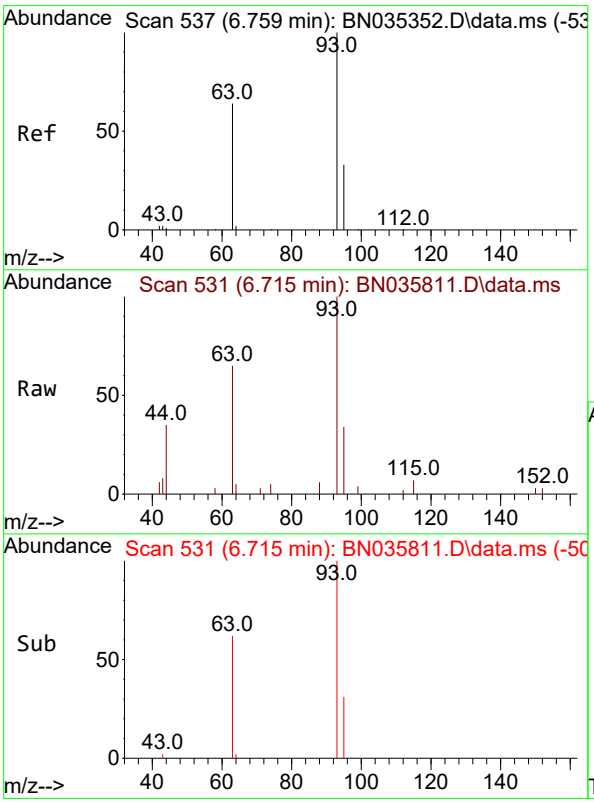
#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 5118

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.3	29.3	43.9

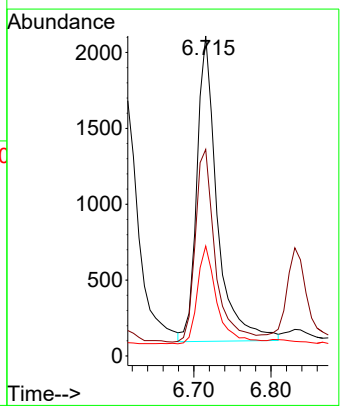


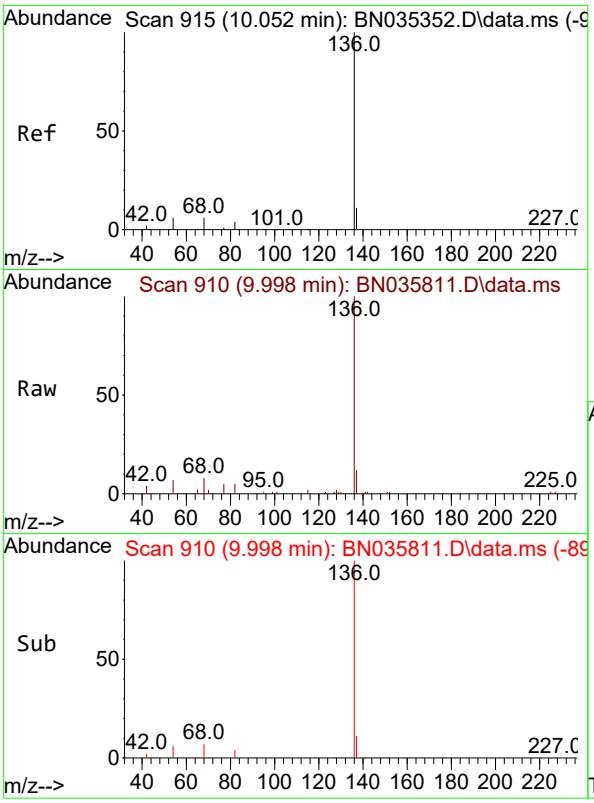


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

Ion	Ratio	Lower	Upper
93	100		
63	62.3	50.4	75.6
95	30.7	25.7	38.5



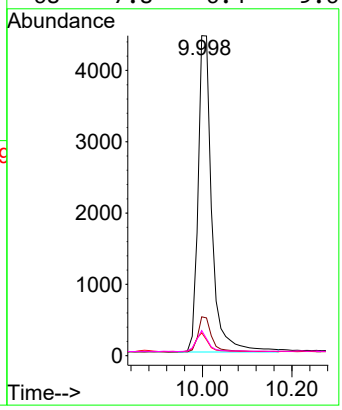


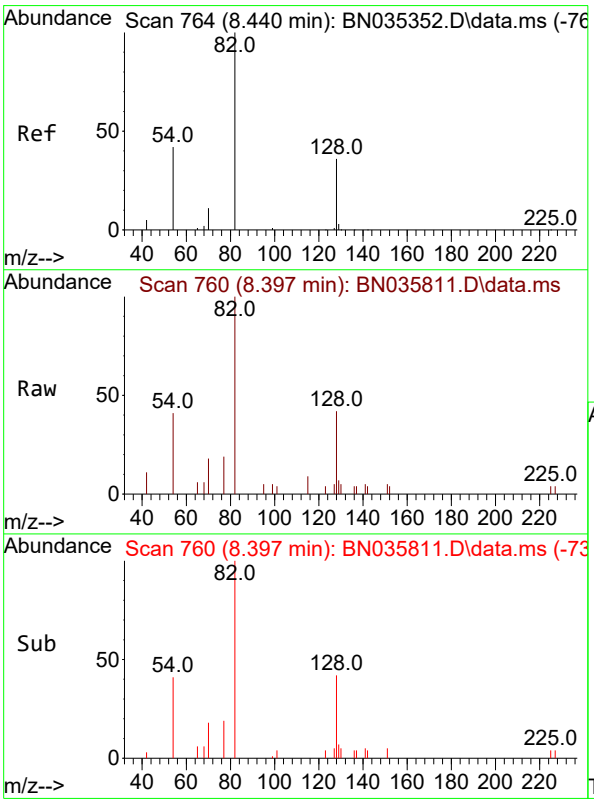
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9483

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.1	6.1	9.1
68	7.8	6.4	9.6

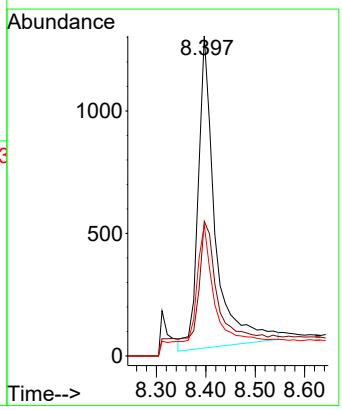


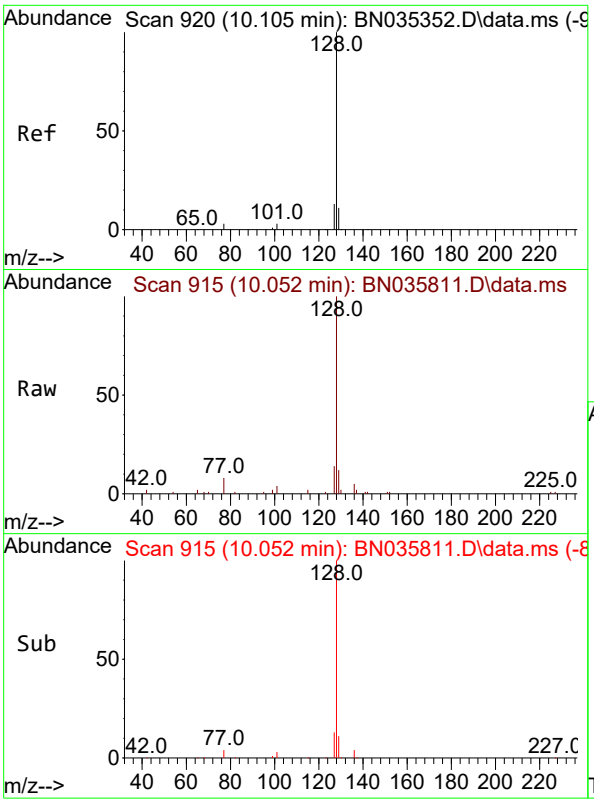


#8
Nitrobenzene-d5
Concen: 0.526 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 3046

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	41.0	36.7	55.1



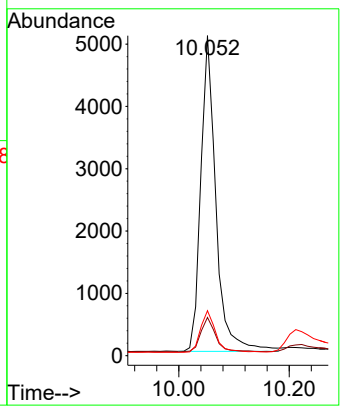


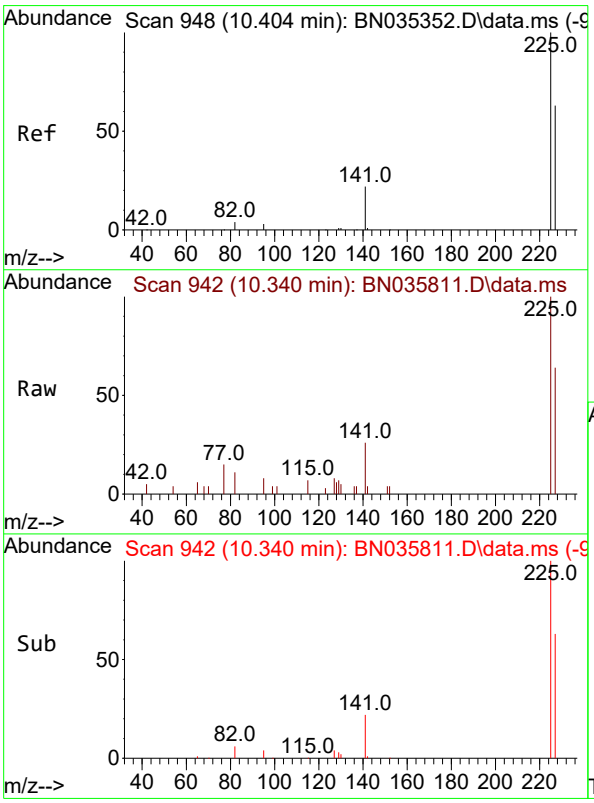
#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9671

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.4	17.2

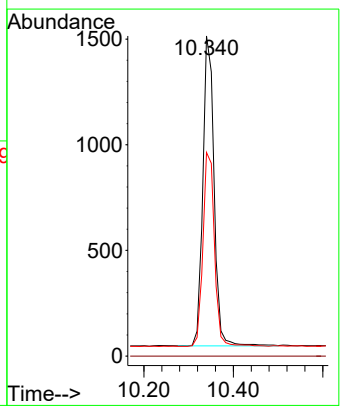


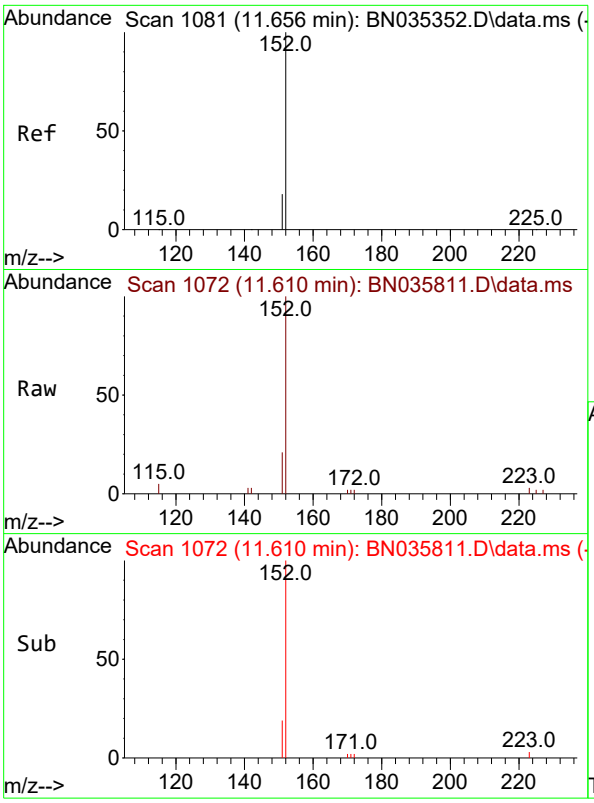


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



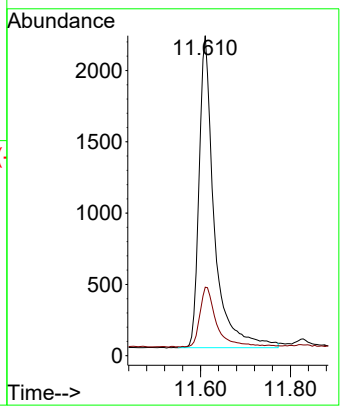


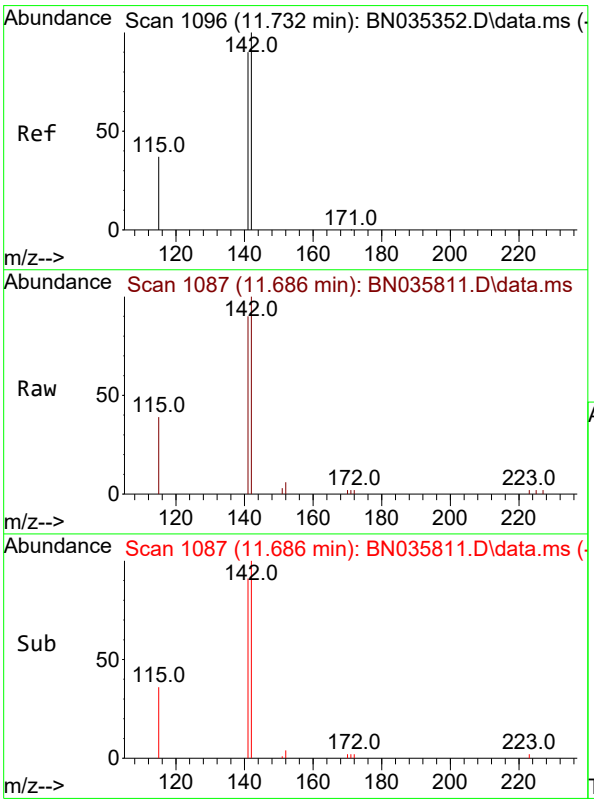
#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5128

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

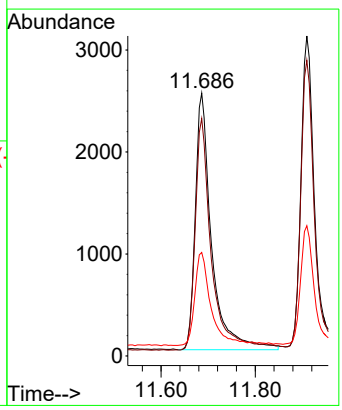


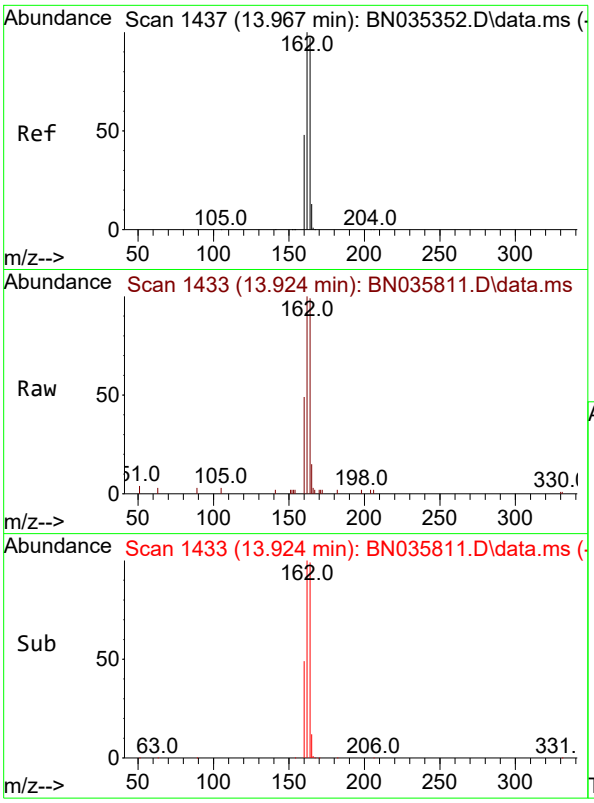


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.4	31.4	47.0



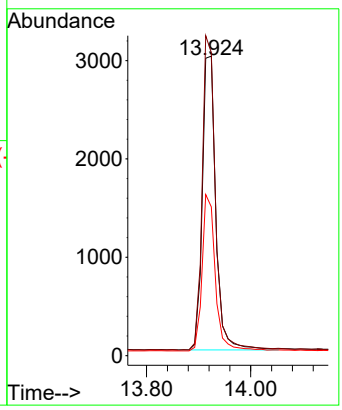


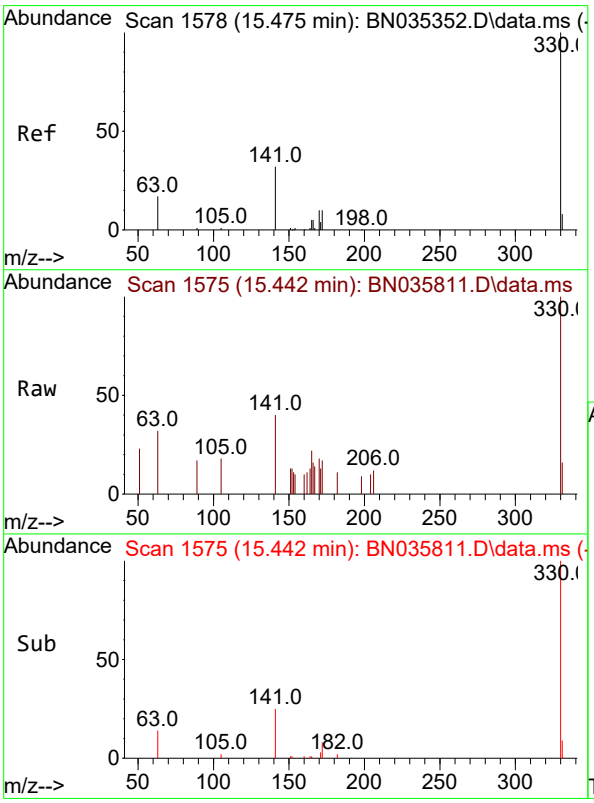
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.7	40.1	60.1

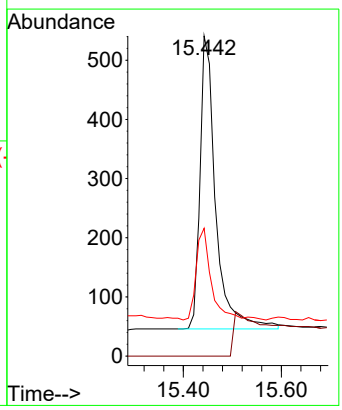


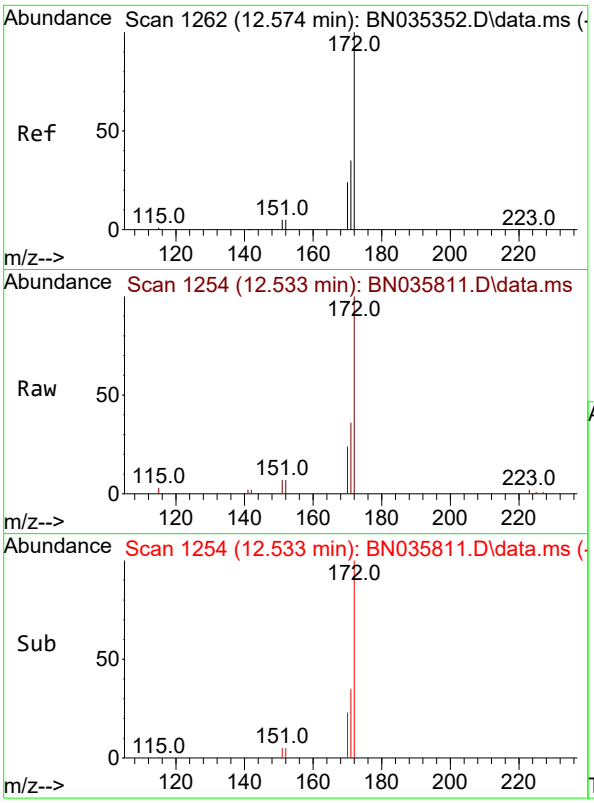


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0



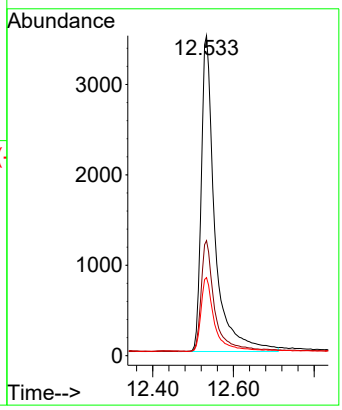


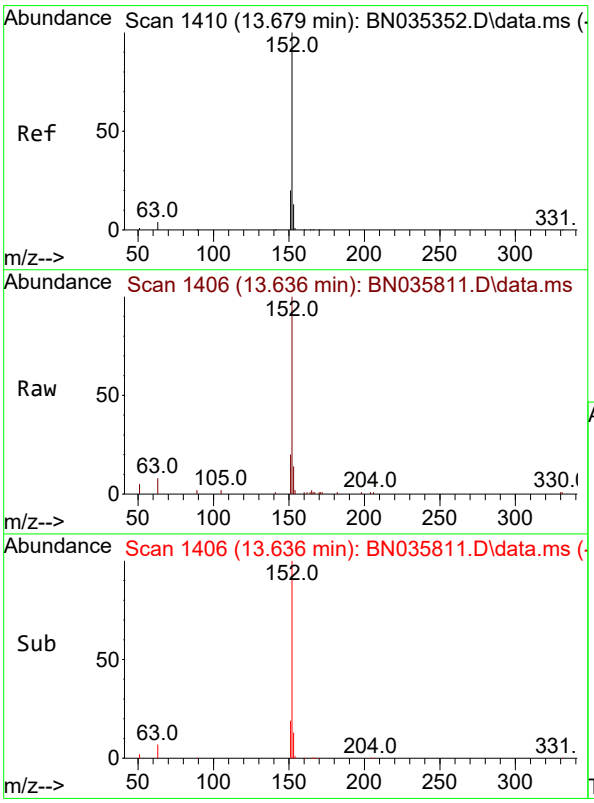
#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8203

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8

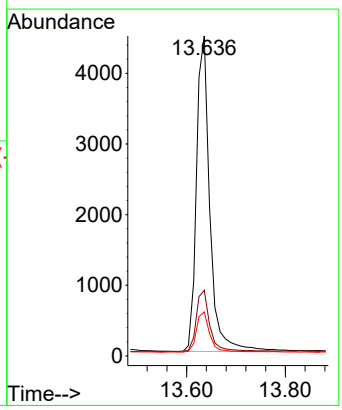


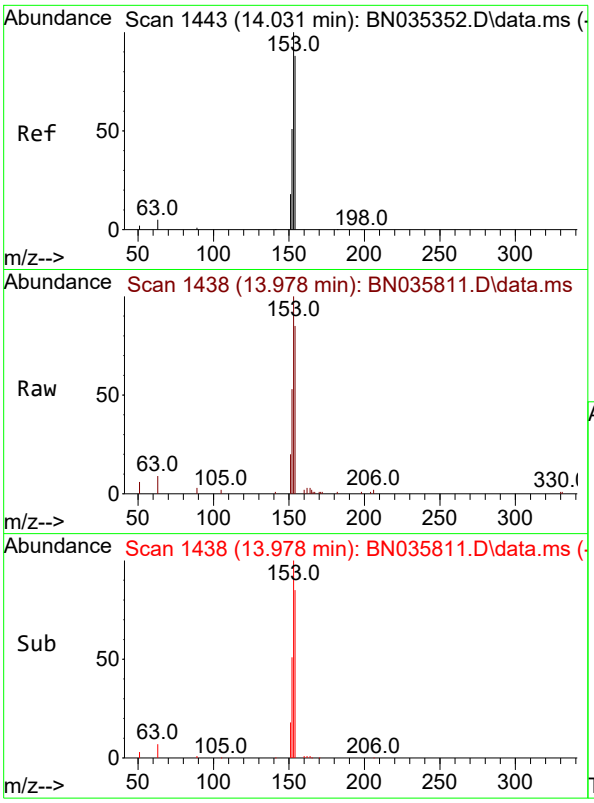


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6



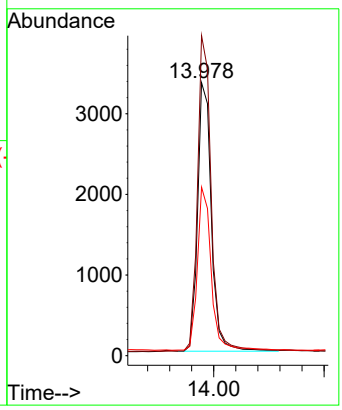


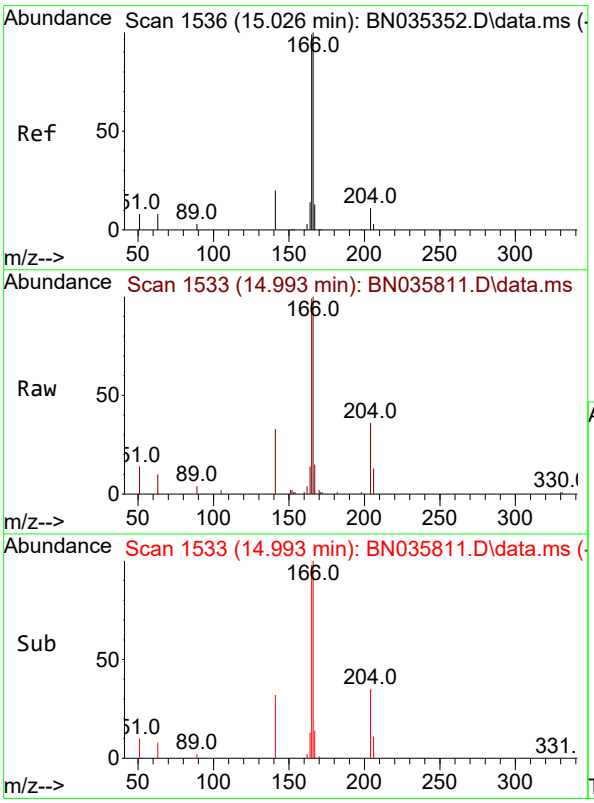
#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5782

Ion	Ratio	Lower	Upper
154	100		
153	117.6	92.6	139.0
152	60.7	49.0	73.6

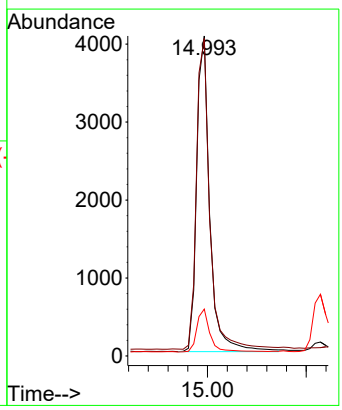


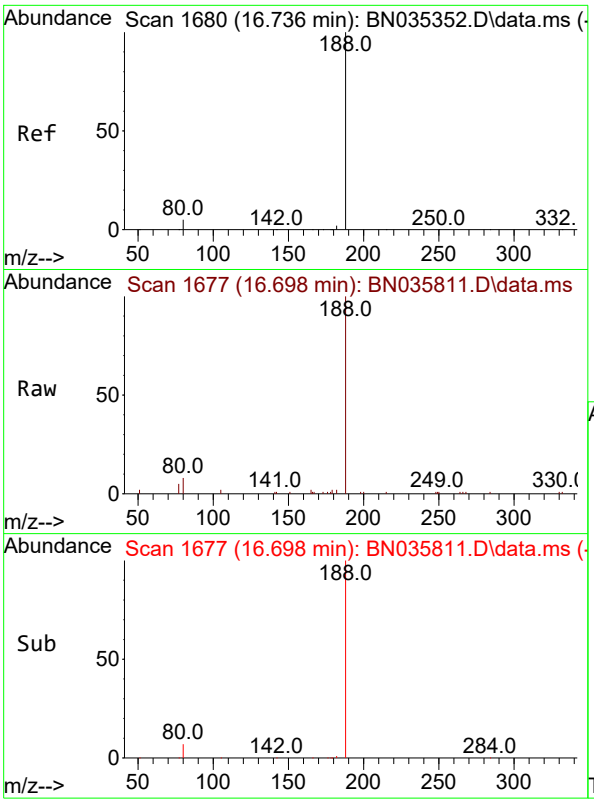


#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.7	10.8	16.2



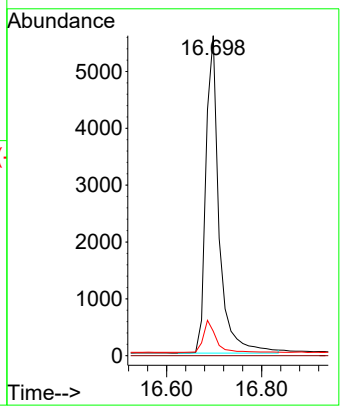


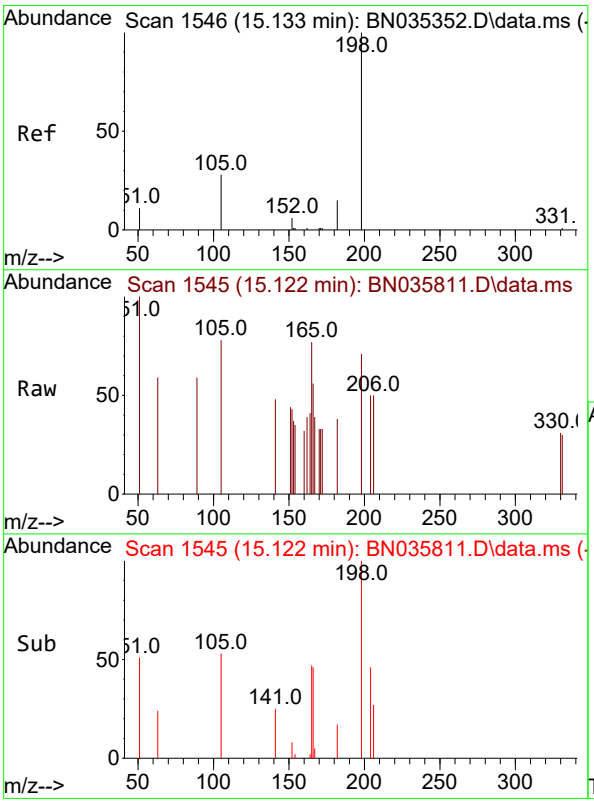
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

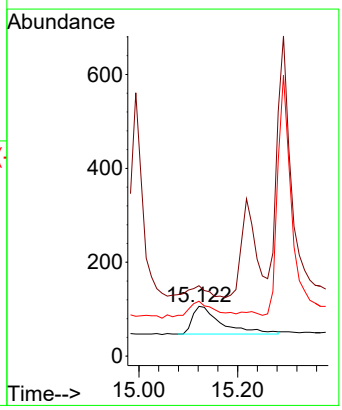


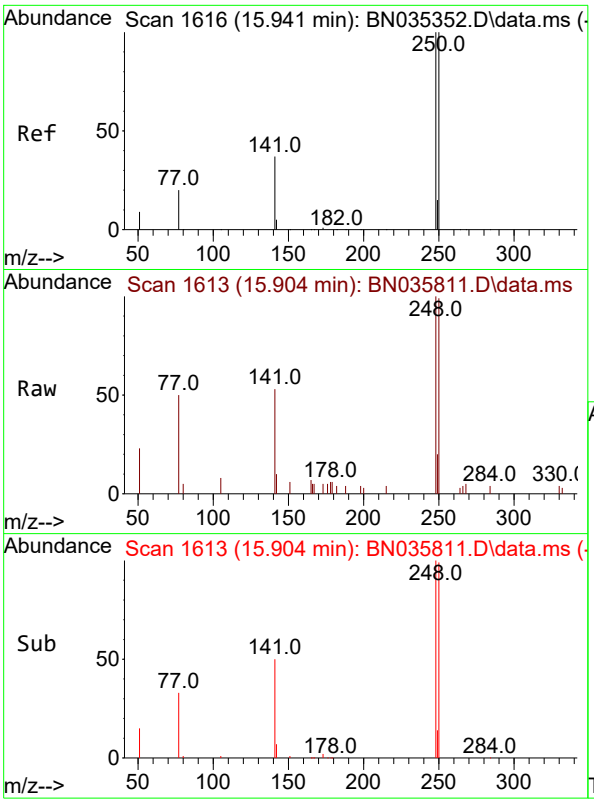


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

Ion	Ratio	Lower	Upper
198	100		
51	141.5	46.5	69.7#
105	110.4	45.3	67.9#



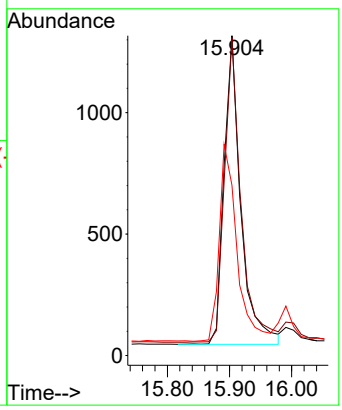


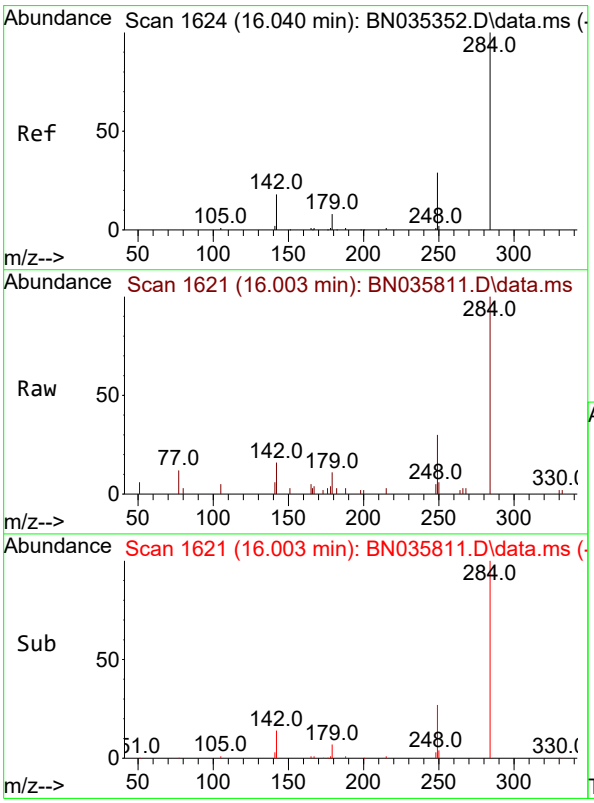
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2379

Ion	Ratio	Lower	Upper
248	100		
250	99.5	80.6	120.8
141	53.2	31.5	47.3#

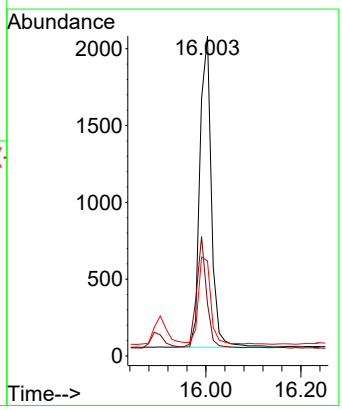


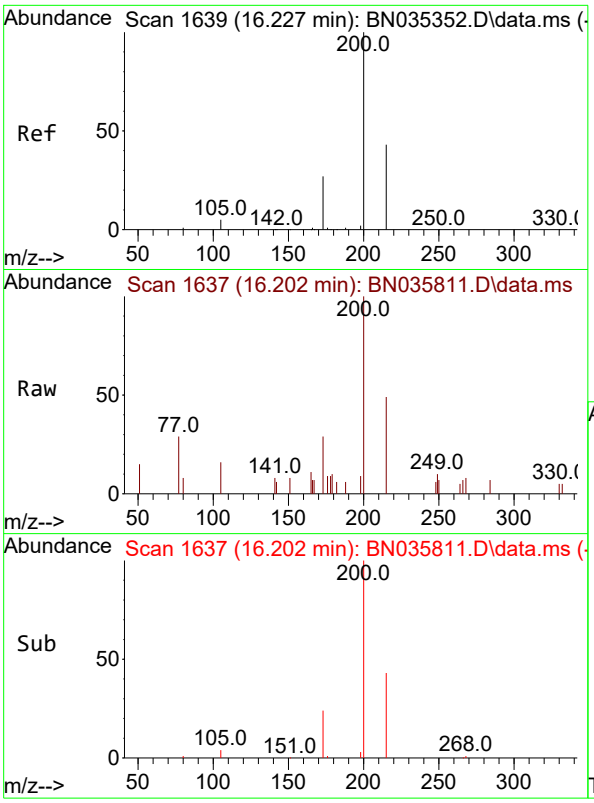


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.7	40.1
249	30.0	24.6	36.8



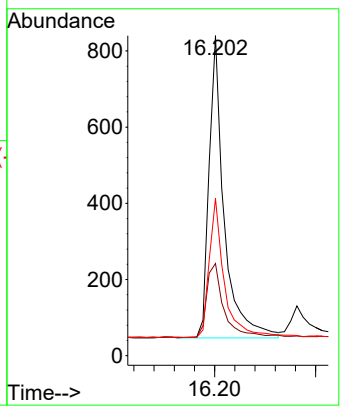


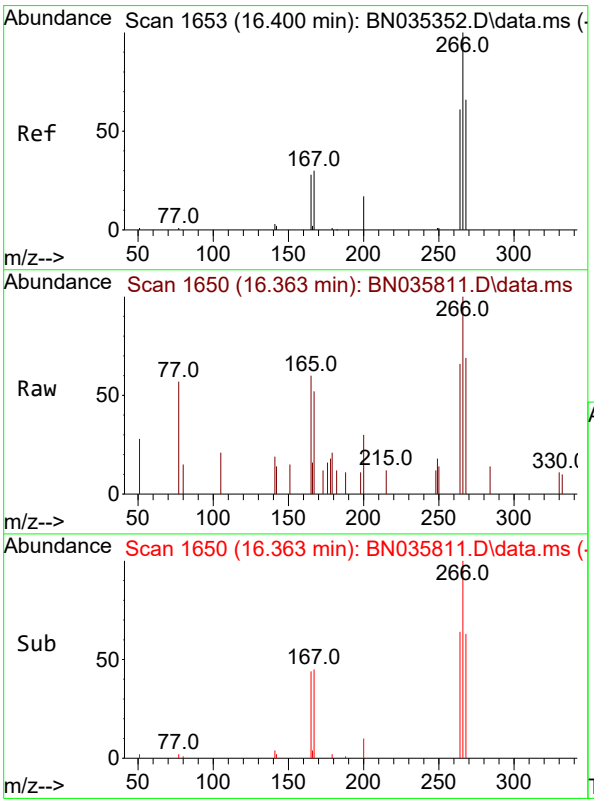
#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1640

Ion	Ratio	Lower	Upper
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3

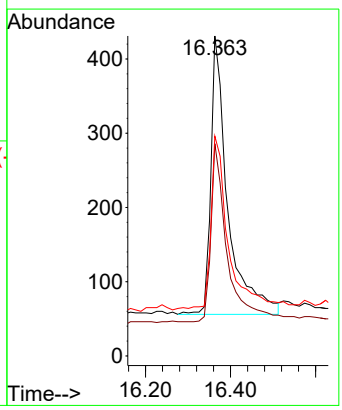


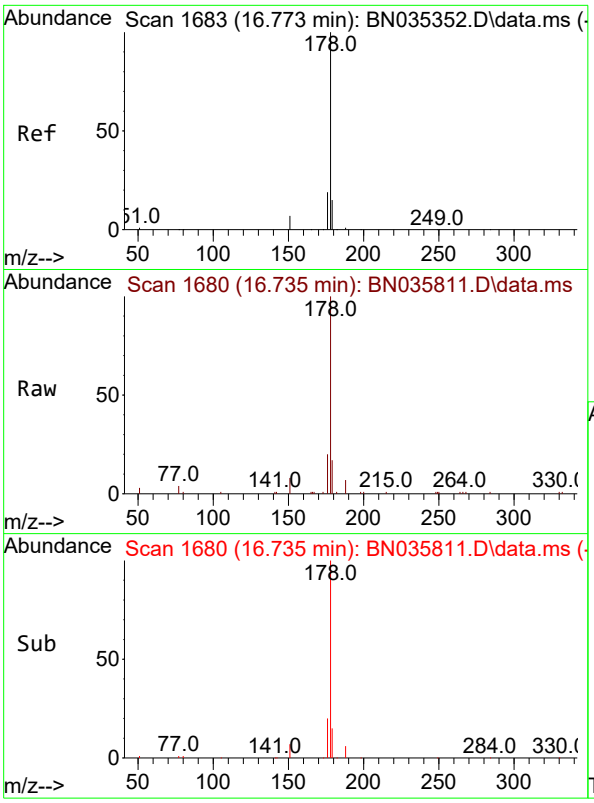


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.5	43.3	64.9



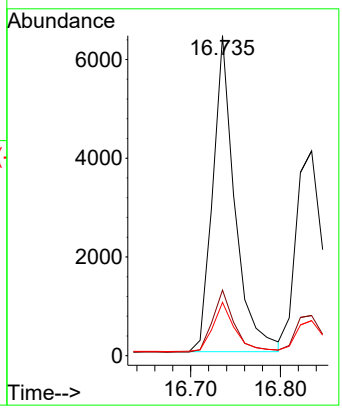


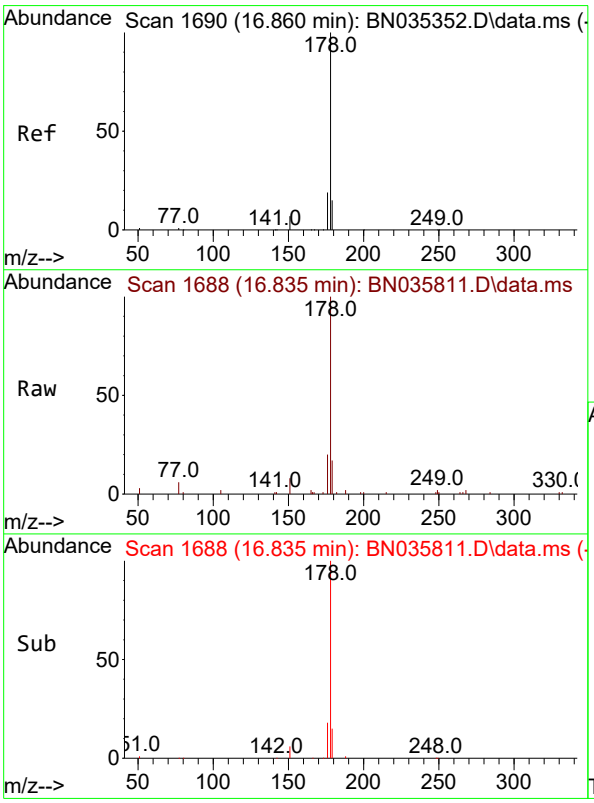
#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10950

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.5	12.3	18.5

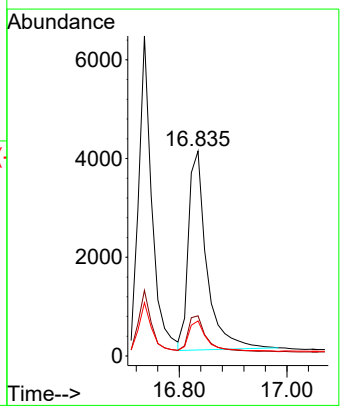


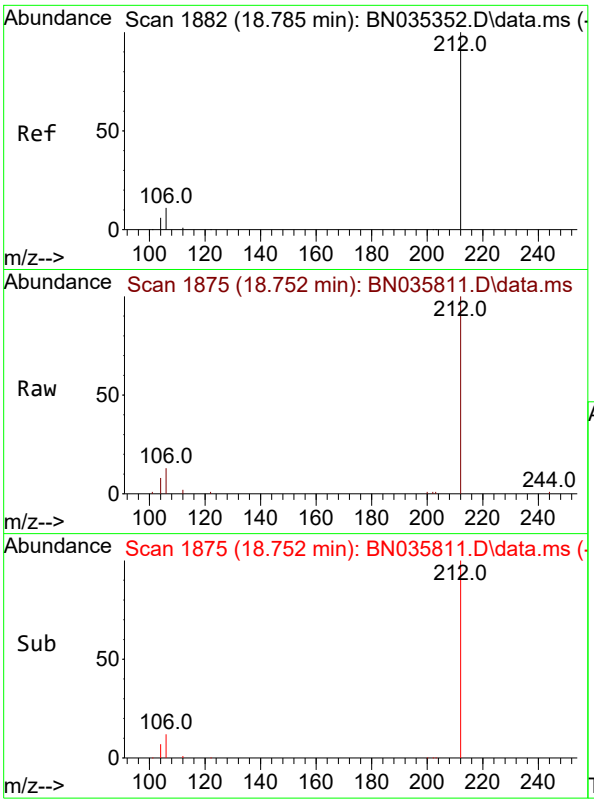


#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.7	12.6	18.8



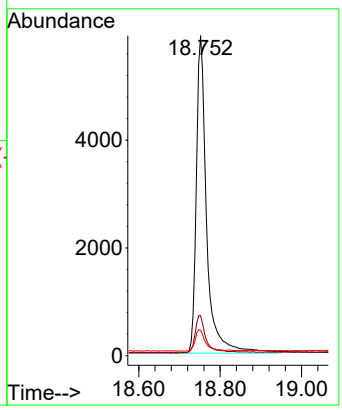


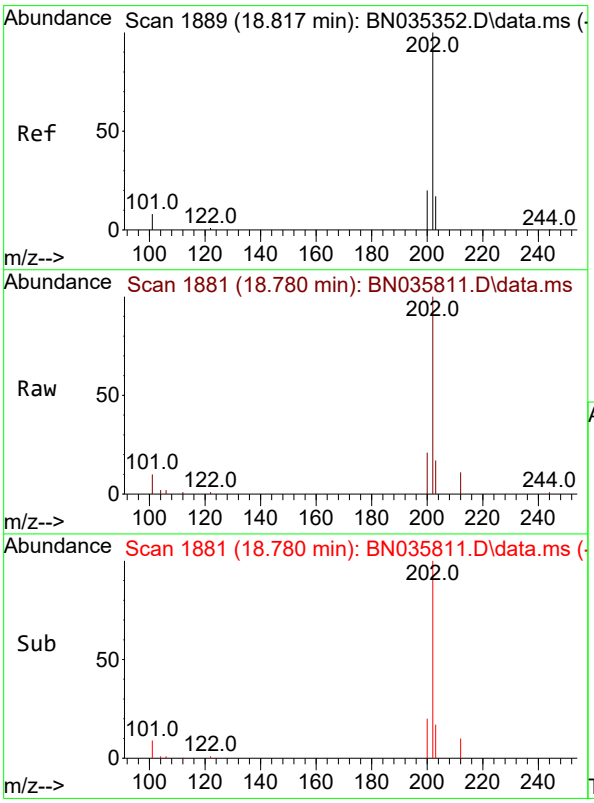
#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10340

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9

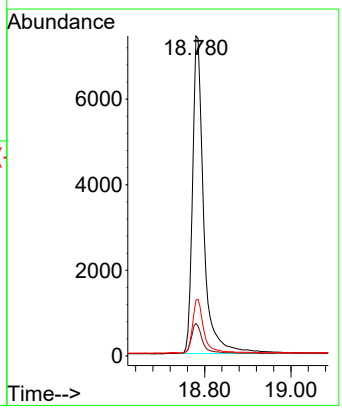


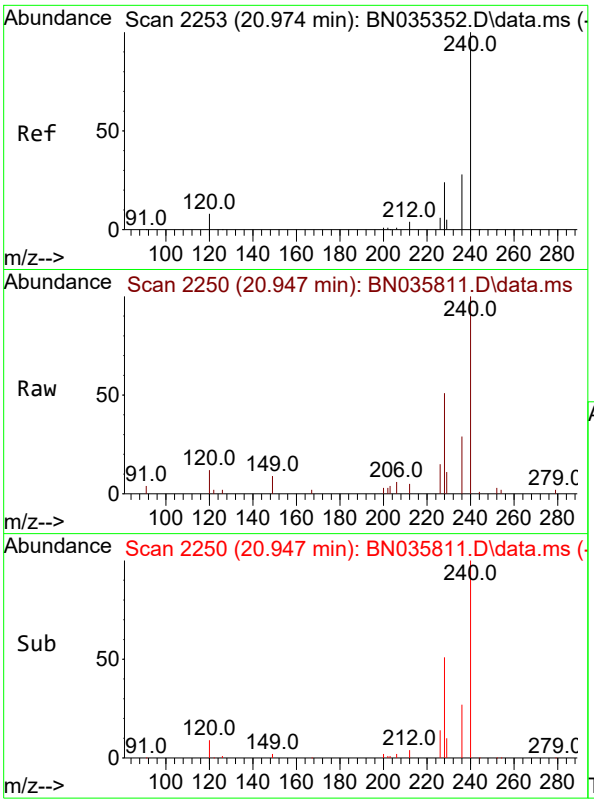


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.5	13.7	20.5



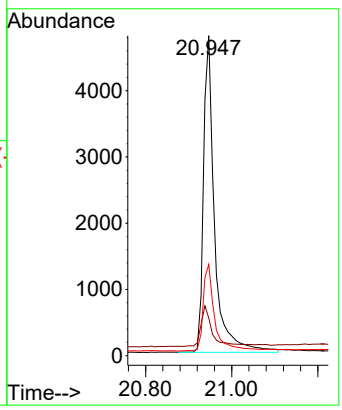


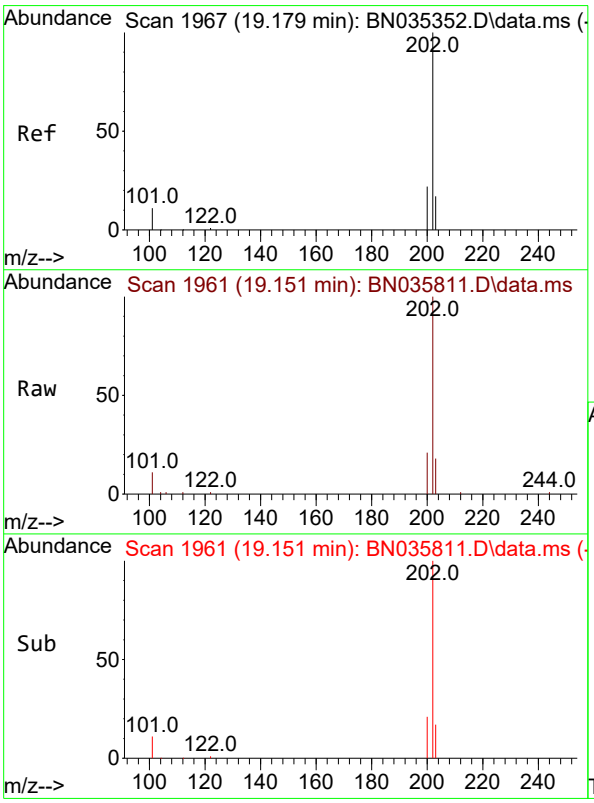
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8569

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.6	22.9	34.3

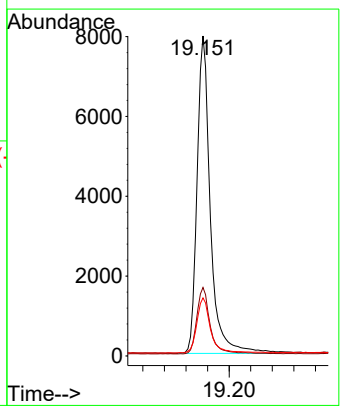


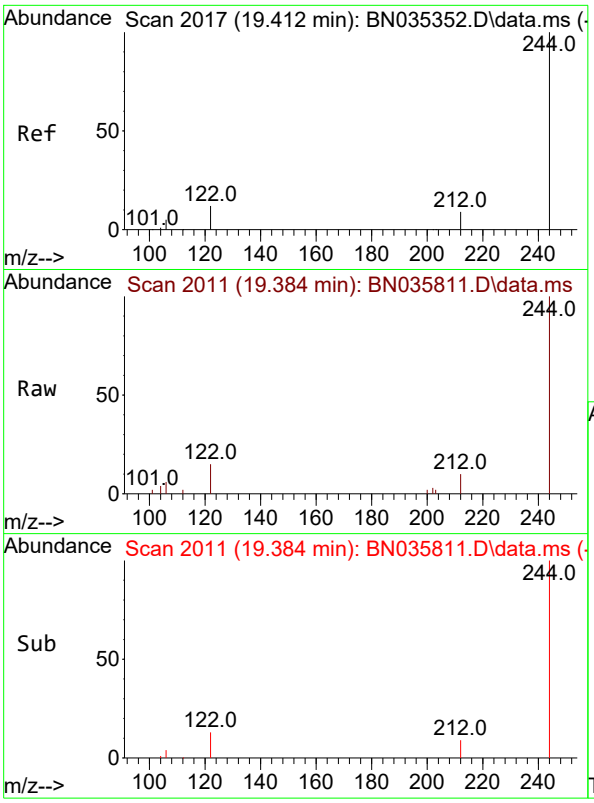


#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



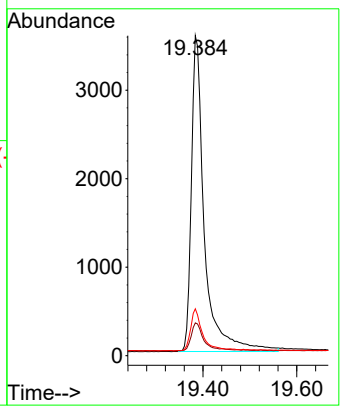


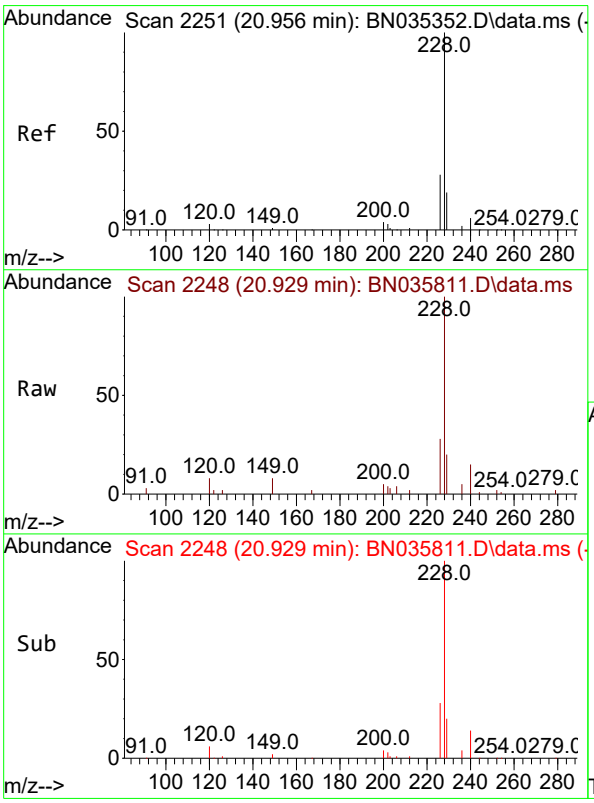
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6888

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5

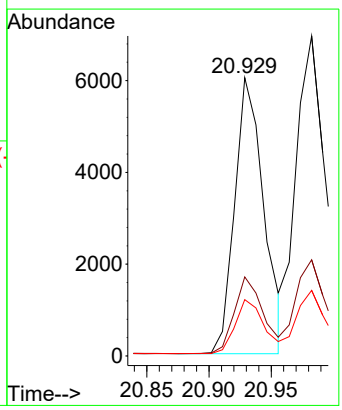


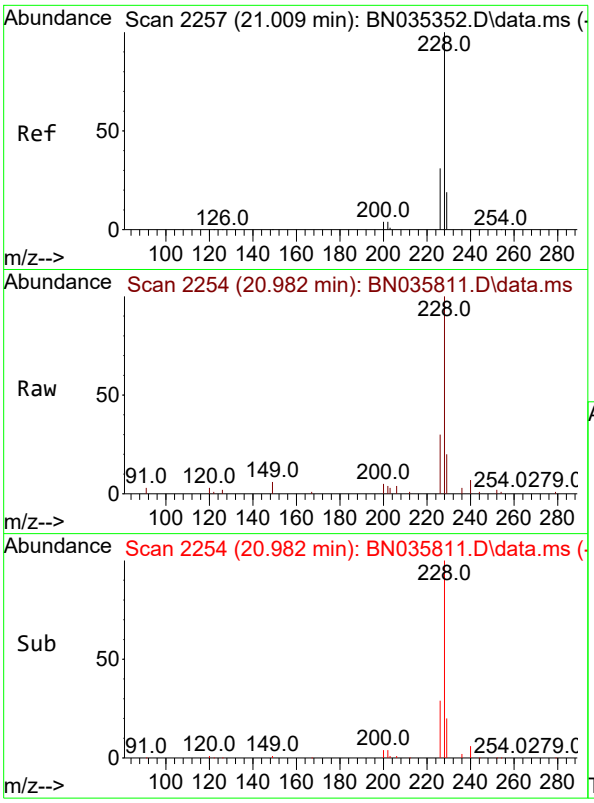


#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.3	15.8	23.8



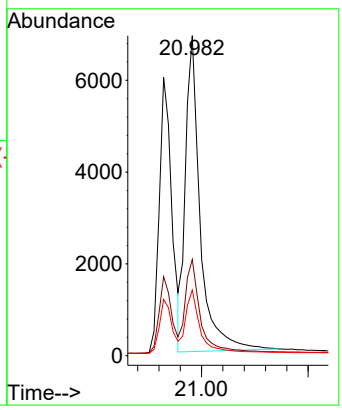


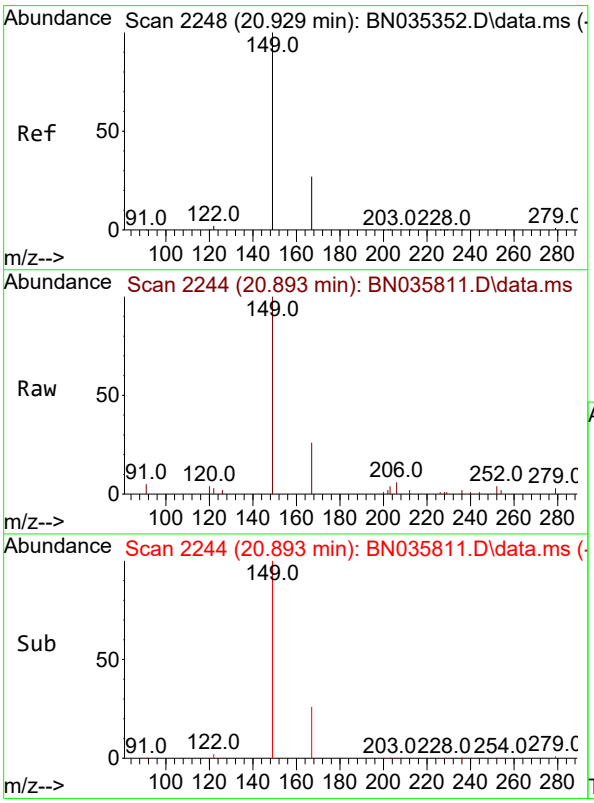
#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 13234

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9

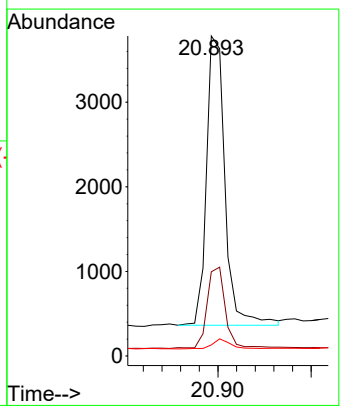


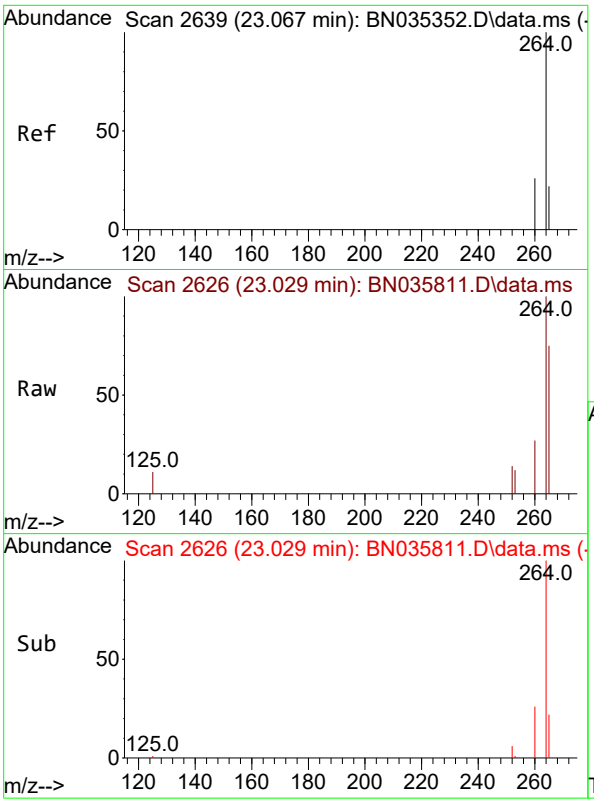


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1



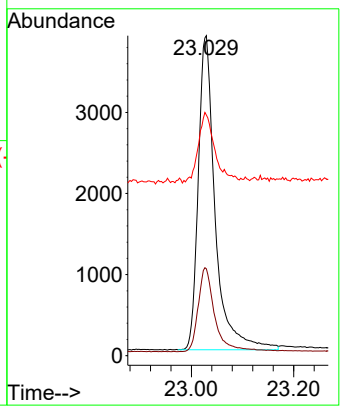


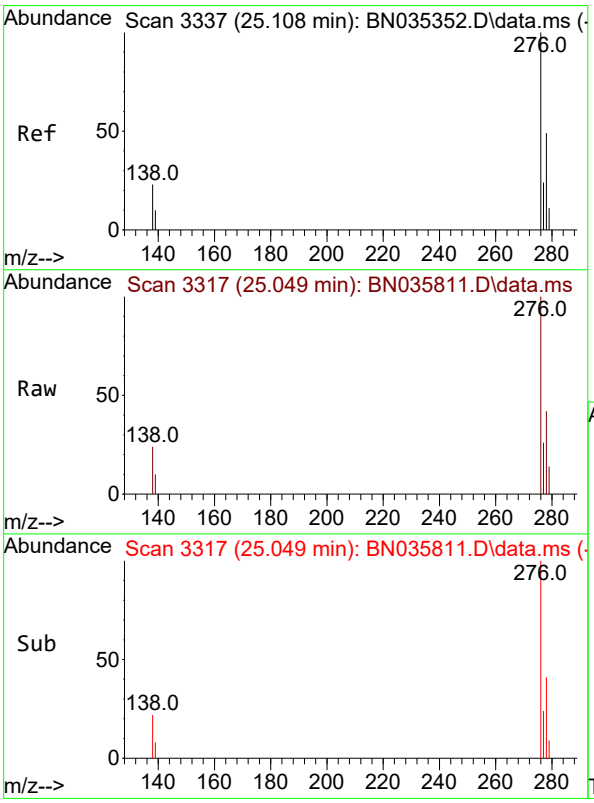
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8879

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	75.2	40.2	60.4#

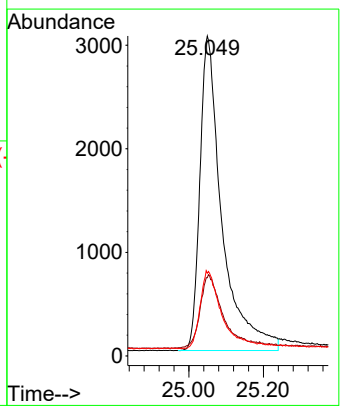


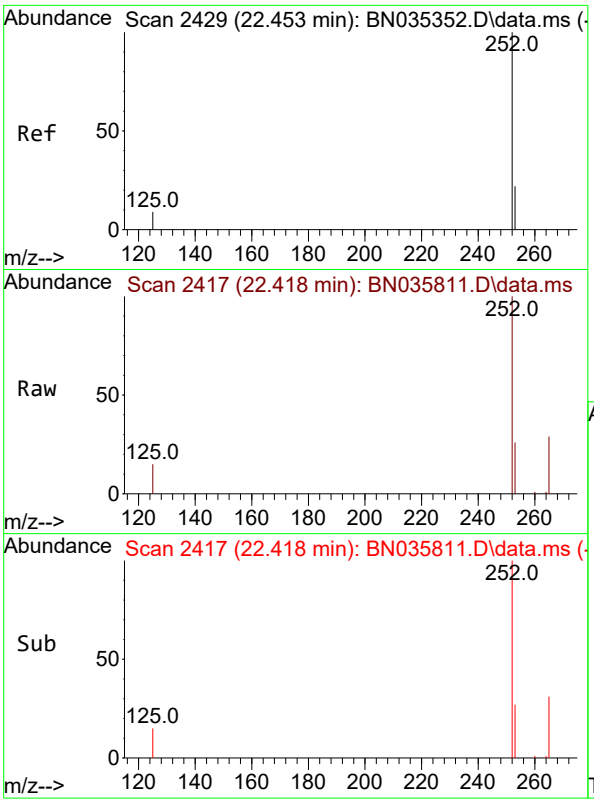


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.1	19.8	29.6



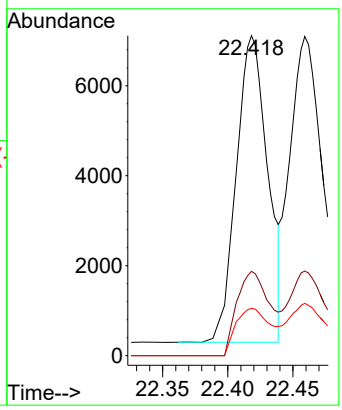


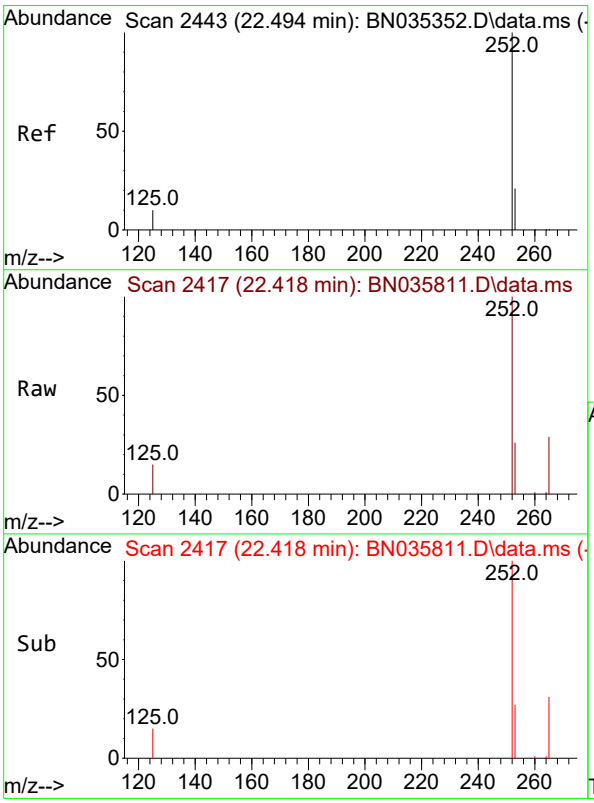
#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16964

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4#

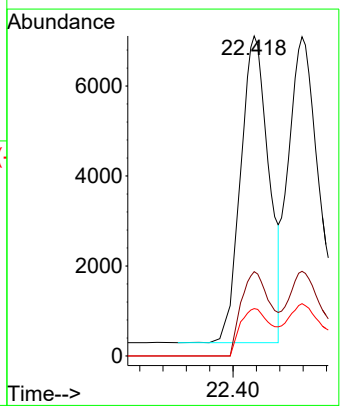


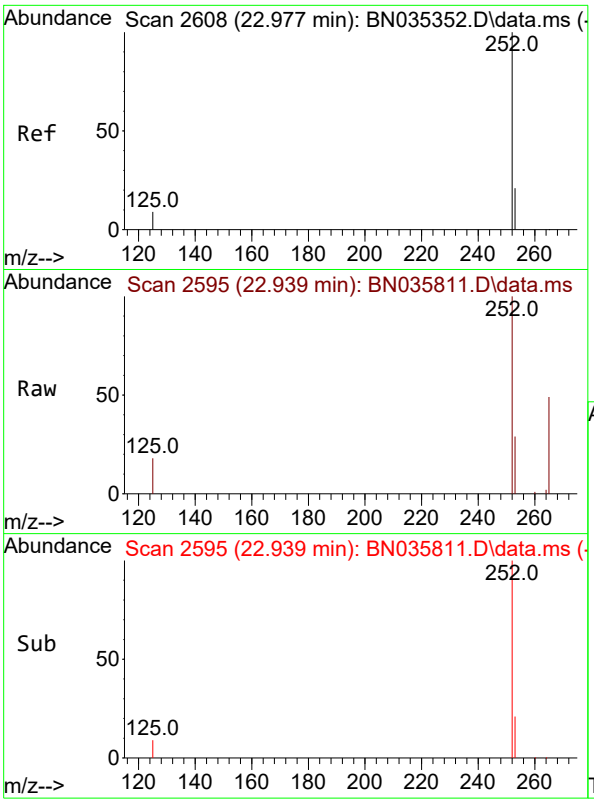


#38
Benzo(k)fluoranthene
Concen: 0.558 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 17845

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	14.8	10.2	15.4



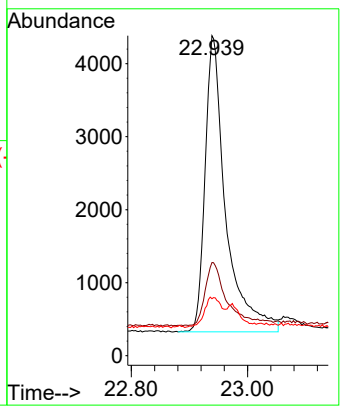


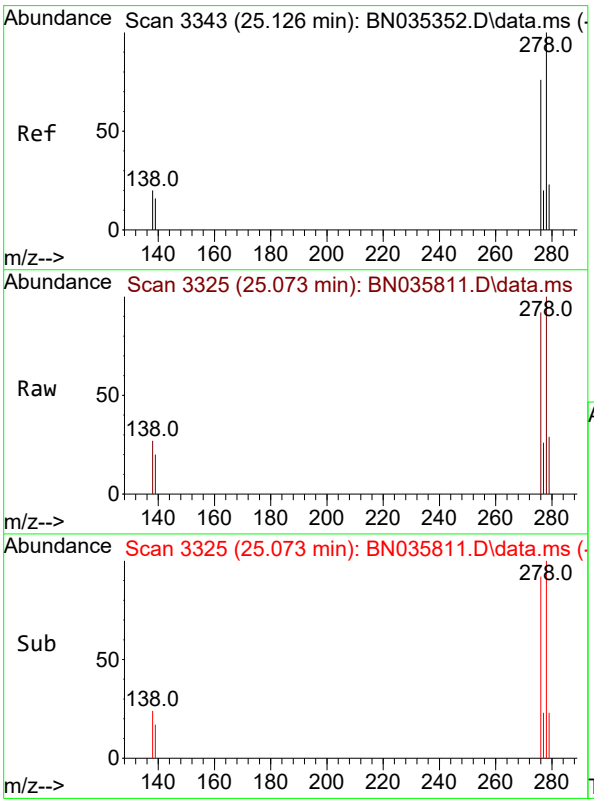
#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10000

Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3#

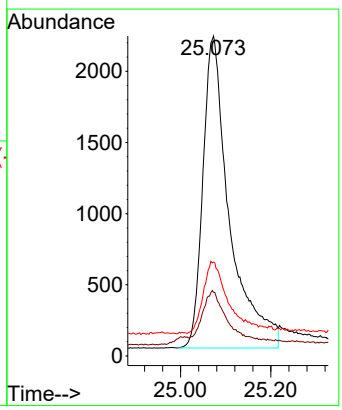


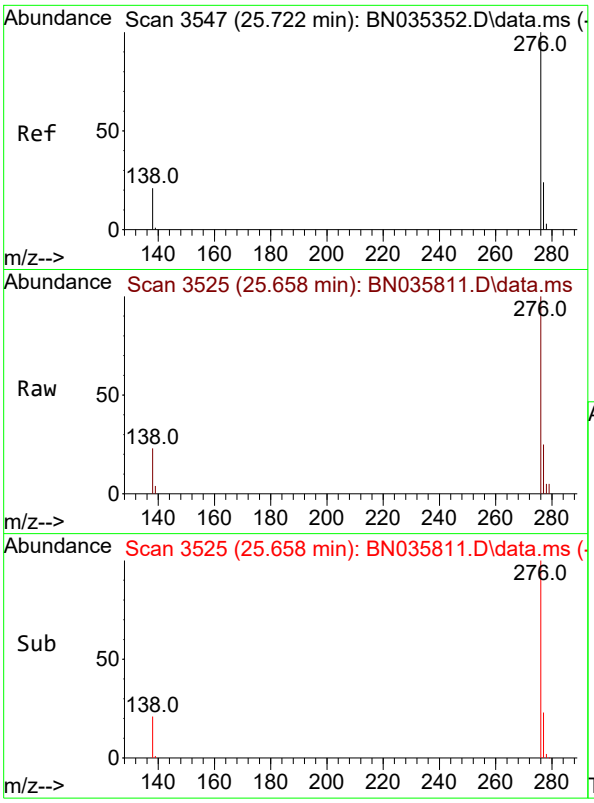


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.2	21.4
279	29.3	20.5	30.7



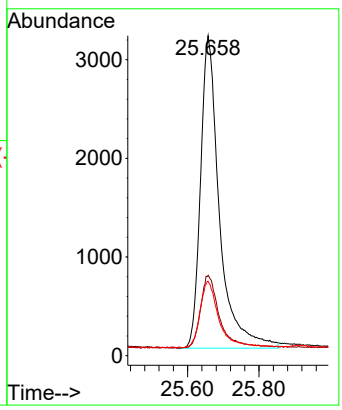


#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11606

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	23.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035813.D
Acq On : 24 Dec 2024 10:10
Operator : RC/JU
Sample : P5281-04DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Quant Time: Dec 24 23:16:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3005	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6792	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4271	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8487	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6764	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6806	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	448	0.060	ng	0.00
5) Phenol-d6	6.484	99	198	0.022	ng	0.00
8) Nitrobenzene-d5	8.418	82	1102	0.266	ng	0.01
11) 2-Methylnaphthalene-d10	11.626	152	1885	0.177	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	291	0.096	ng	0.00
15) 2-Fluorobiphenyl	12.544	172	3073	0.190	ng	0.00
27) Fluoranthene-d10	18.752	212	5039	0.209	ng	0.00
31) Terphenyl-d14	19.379	244	3636	0.272	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	8686	3.024	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	479	0.051	ng	# 99

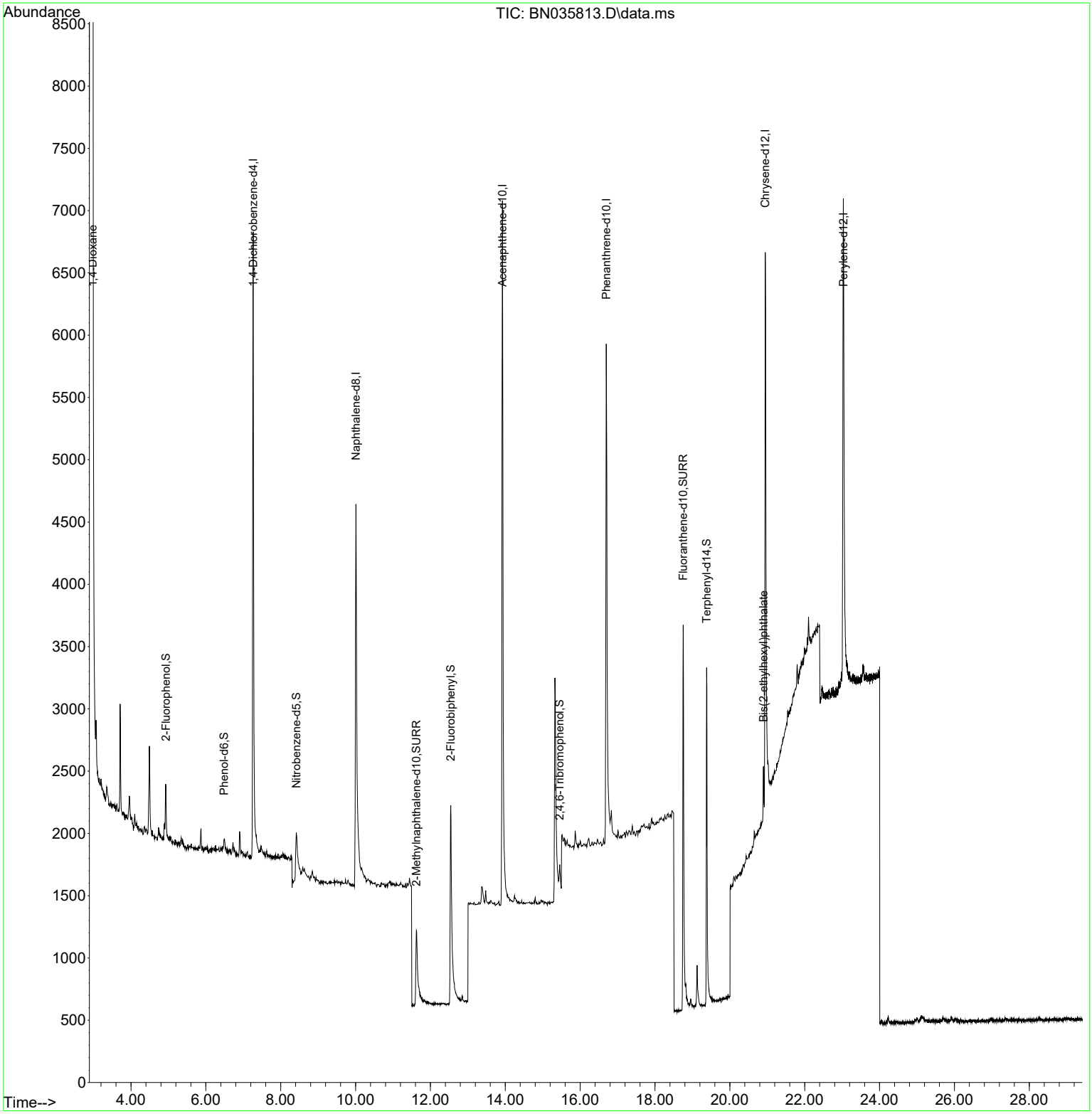
(#) = qualifier out of range (m) = manual integration (+) = signals summed

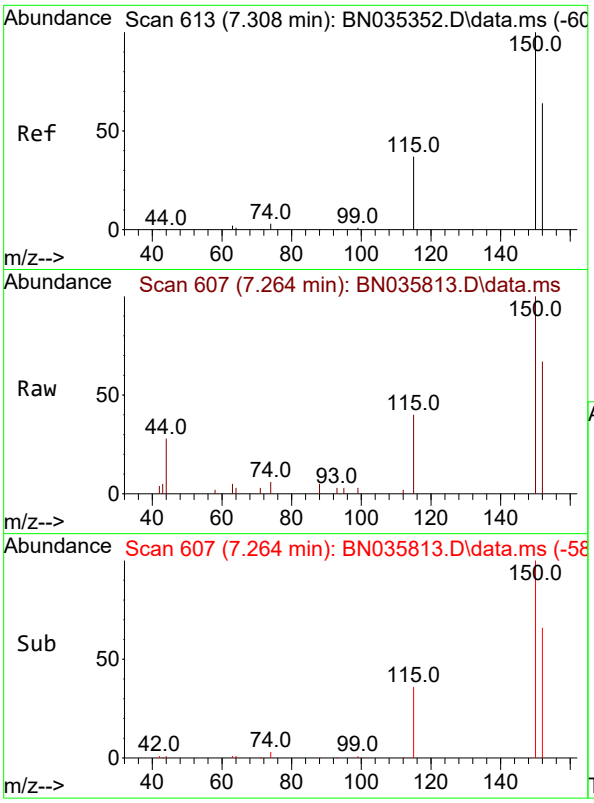
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035813.D
Acq On : 24 Dec 2024 10:10
Operator : RC/JU
Sample : P5281-04DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Quant Time: Dec 24 23:16:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



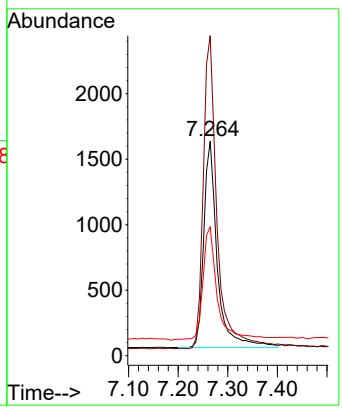


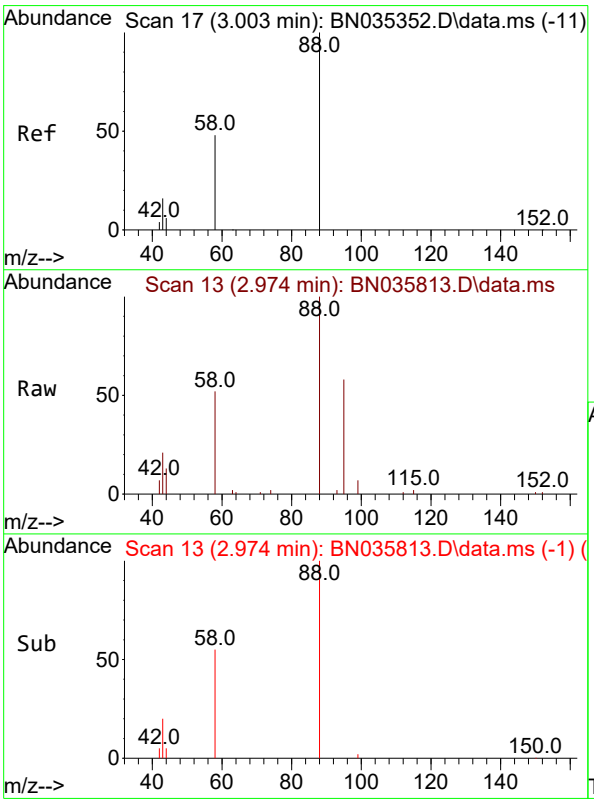
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:152 Resp: 3005

Ion	Ratio	Lower	Upper
152	100		
150	149.1	124.0	186.0
115	59.9	49.6	74.4

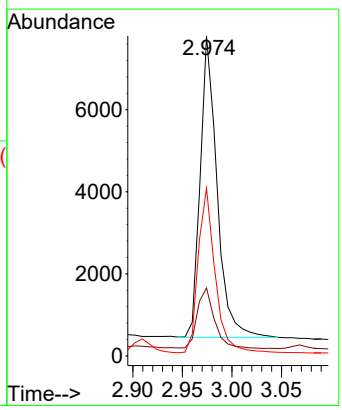


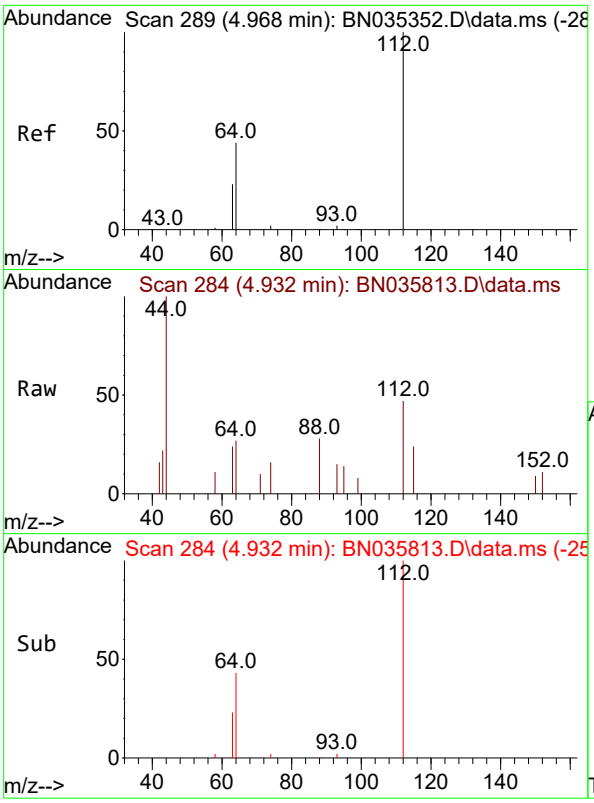


#2
1,4-Dioxane
Concen: 3.024 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion: 88 Resp: 8686

Ion	Ratio	Lower	Upper
88	100		
43	20.8	17.2	25.8
58	55.0	44.5	66.7



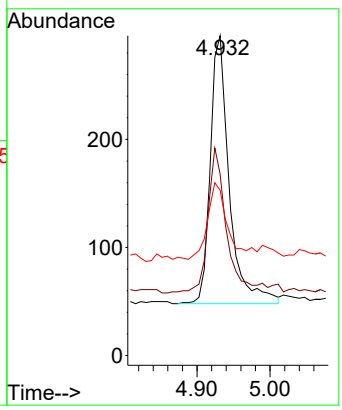


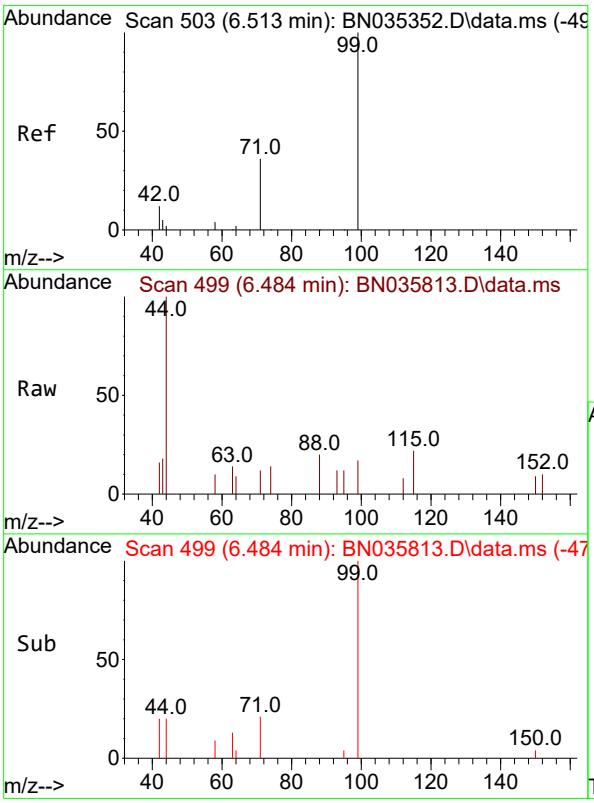
#4
2-Fluorophenol
Concen: 0.060 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:112 Resp: 448

Ion	Ratio	Lower	Upper
112	100		
64	54.7	39.8	59.8
63	29.0	21.0	31.6

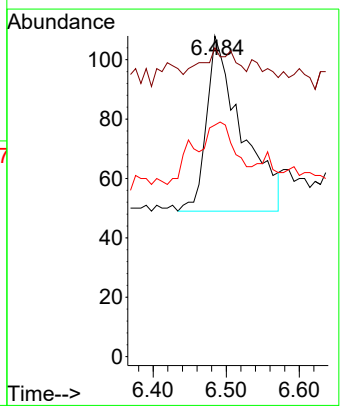


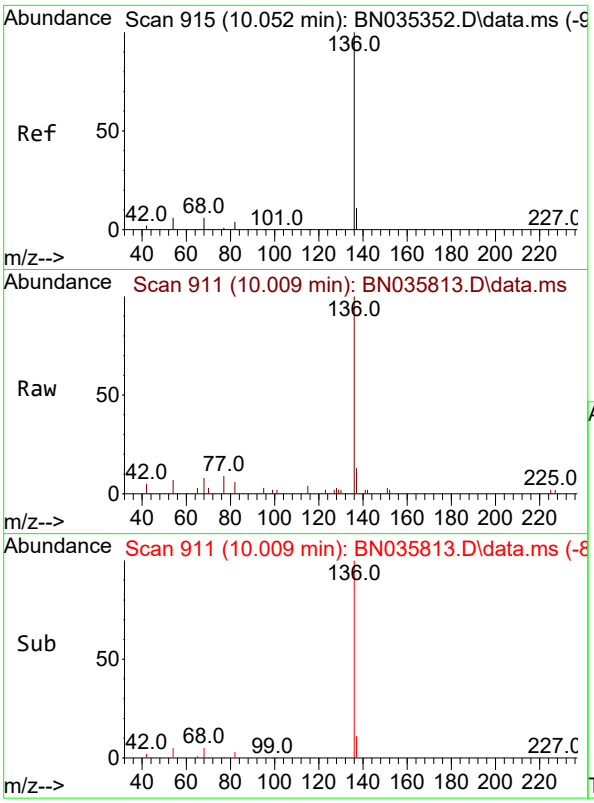


#5
Phenol-d6
Concen: 0.022 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion: 99 Resp: 198

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	25.8	29.3	43.9#



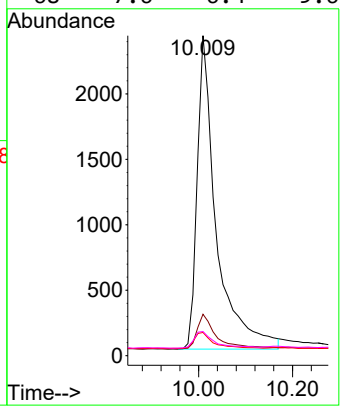


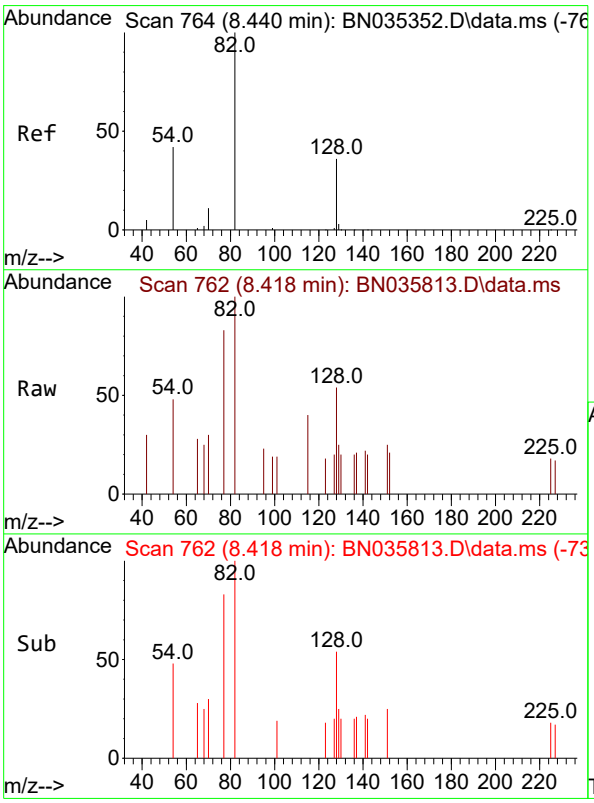
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:136 Resp: 6792

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.3	6.1	9.1
68	7.6	6.4	9.6

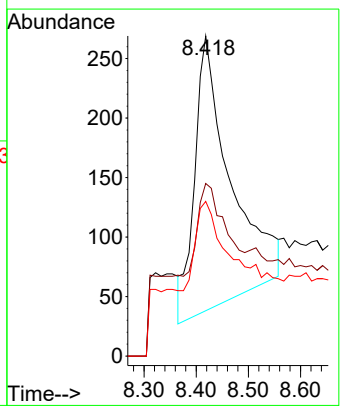


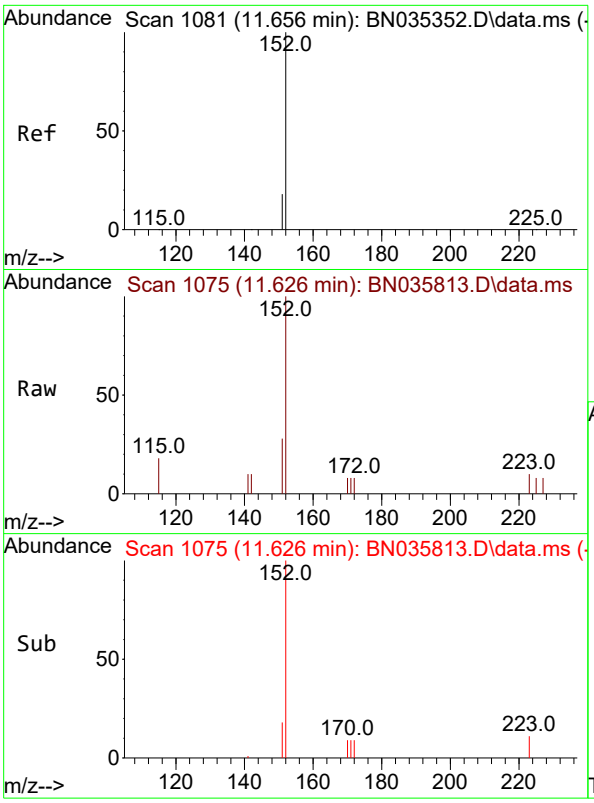


#8
Nitrobenzene-d5
Concen: 0.266 ng
RT: 8.418 min Scan# 762
Delta R.T. 0.011 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion: 82 Resp: 1102

Ion	Ratio	Lower	Upper
82	100		
128	53.9	33.4	50.0#
54	48.3	36.7	55.1



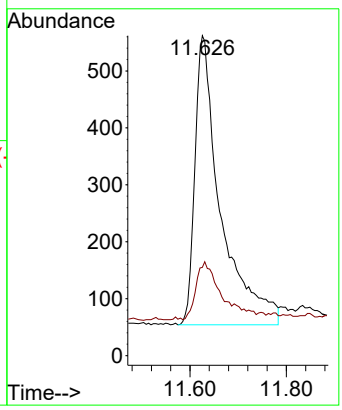


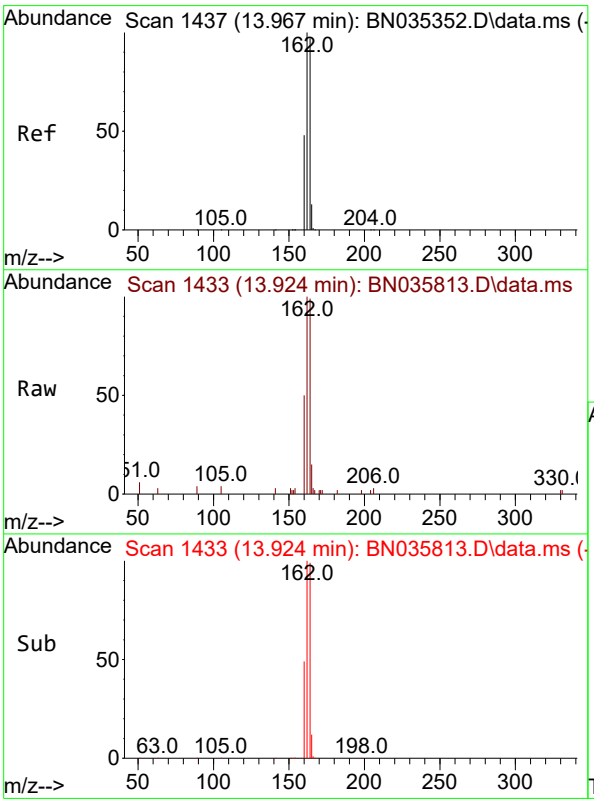
#11
2-Methylnaphthalene-d10
Concen: 0.177 ng
RT: 11.626 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:152 Resp: 1885

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	25.0

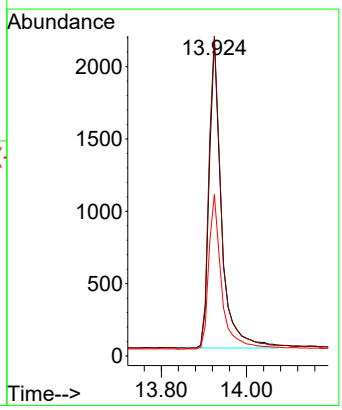


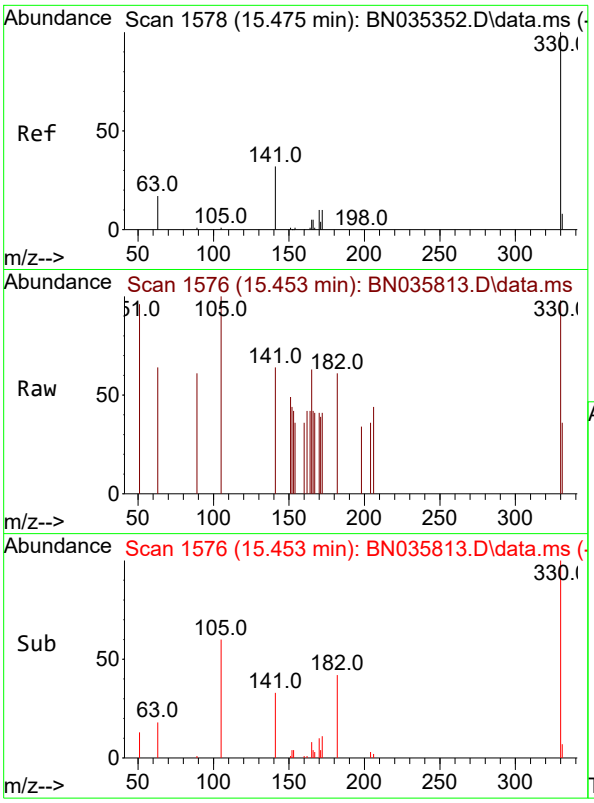


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:164 Resp: 4271

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	51.0	40.1	60.1



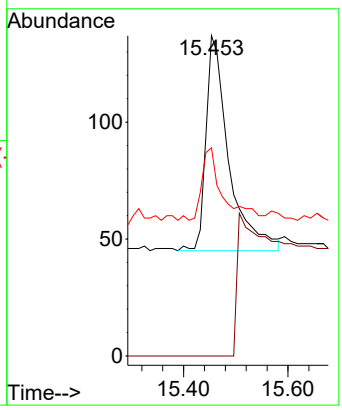


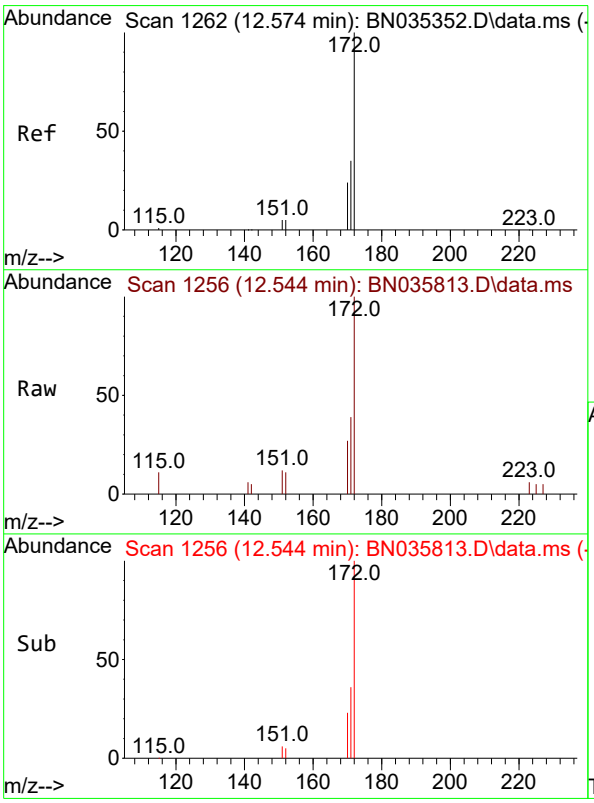
#14
2,4,6-Tribromophenol
Concen: 0.096 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:330 Resp: 291

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0

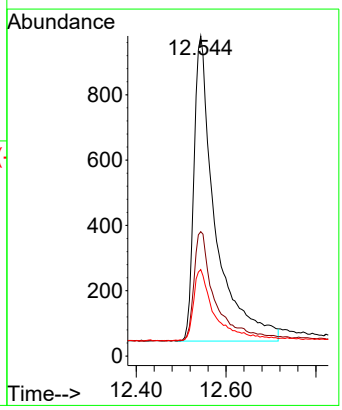


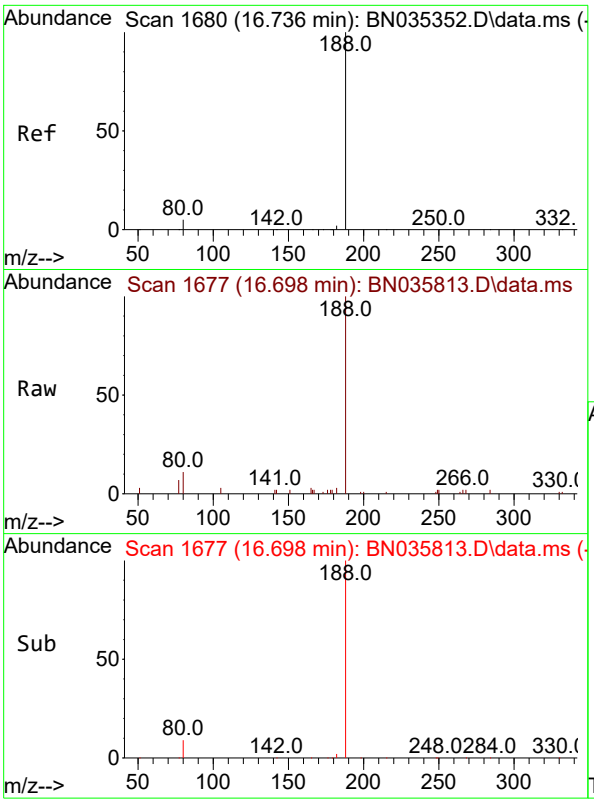


#15
2-Fluorobiphenyl
Concen: 0.190 ng
RT: 12.544 min Scan# 1256
Delta R.T. -0.000 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:172 Resp: 3073

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.0	43.4
170	27.0	19.8	29.8



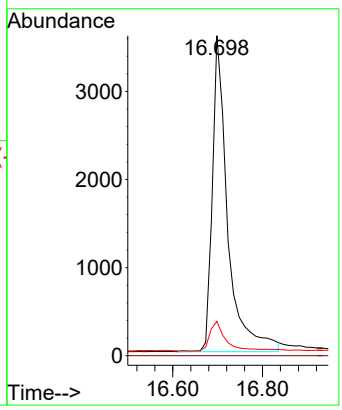


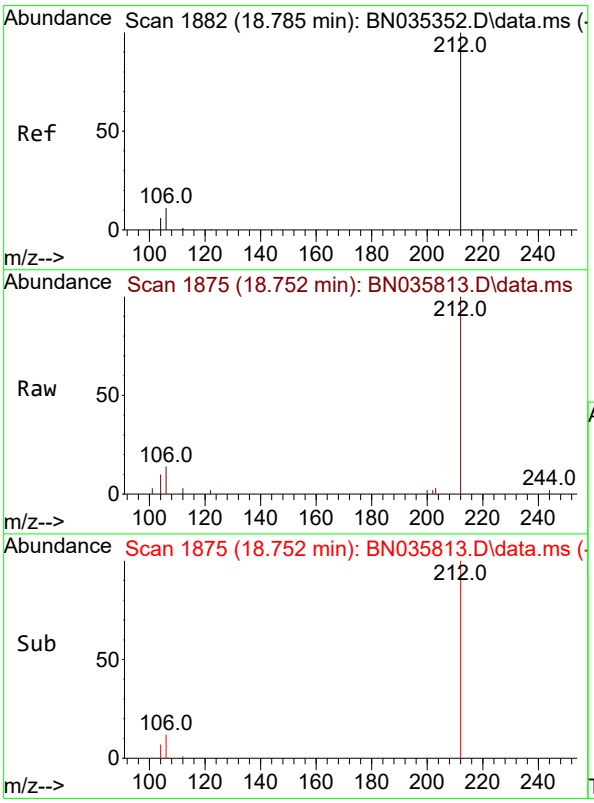
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:188 Resp: 8487

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.7	4.6	6.8#

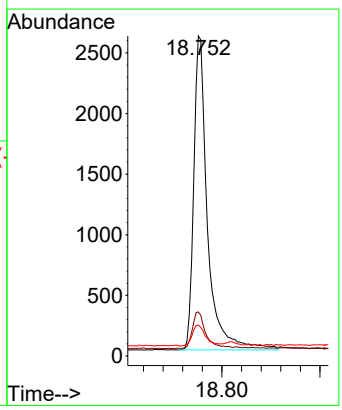


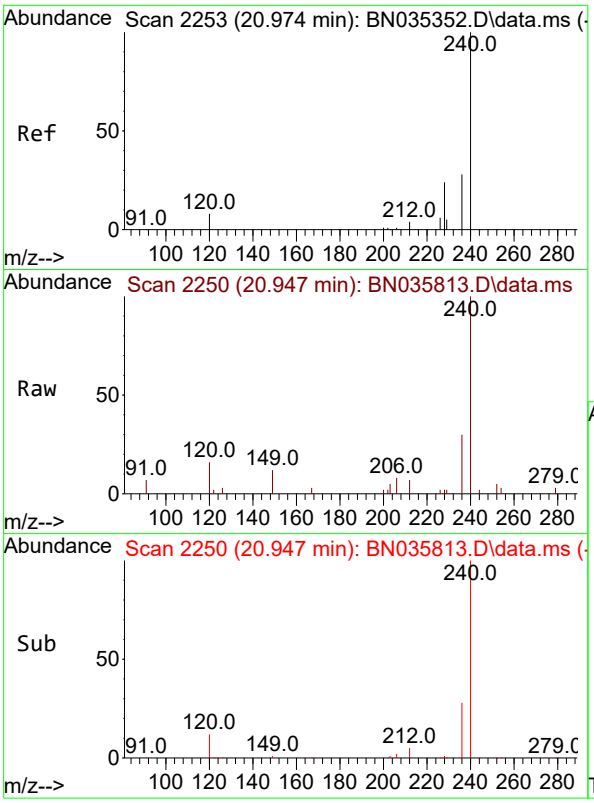


#27
Fluoranthene-d10
Concen: 0.209 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:212 Resp: 5039

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.6	5.3	7.9



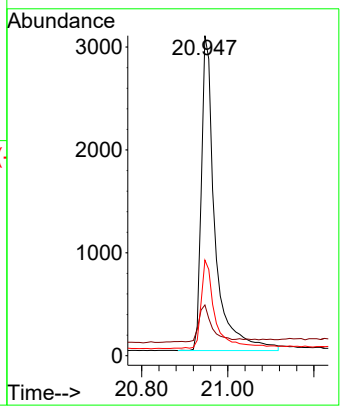


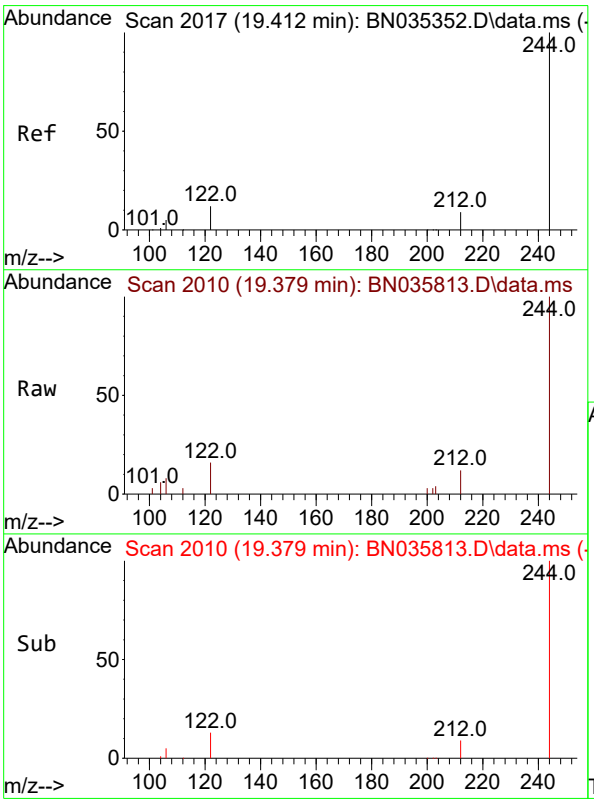
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:240 Resp: 6764

Ion	Ratio	Lower	Upper
240	100		
120	15.8	7.9	11.9#
236	29.9	22.9	34.3

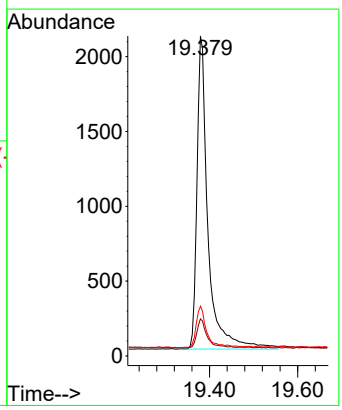


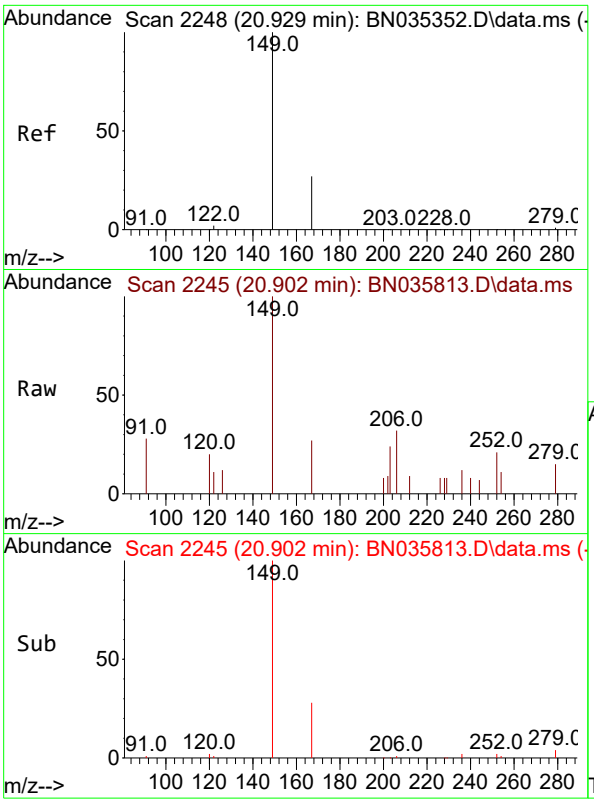


#31
Terphenyl-d14
Concen: 0.272 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:244 Resp: 3636

Ion	Ratio	Lower	Upper
244	100		
212	11.6	8.1	12.1
122	15.6	10.3	15.5#



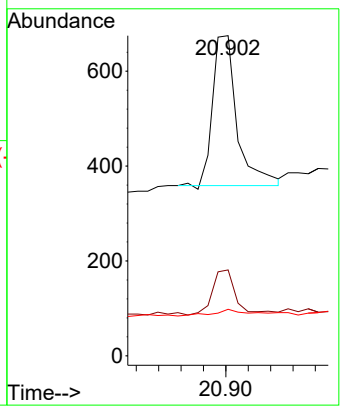


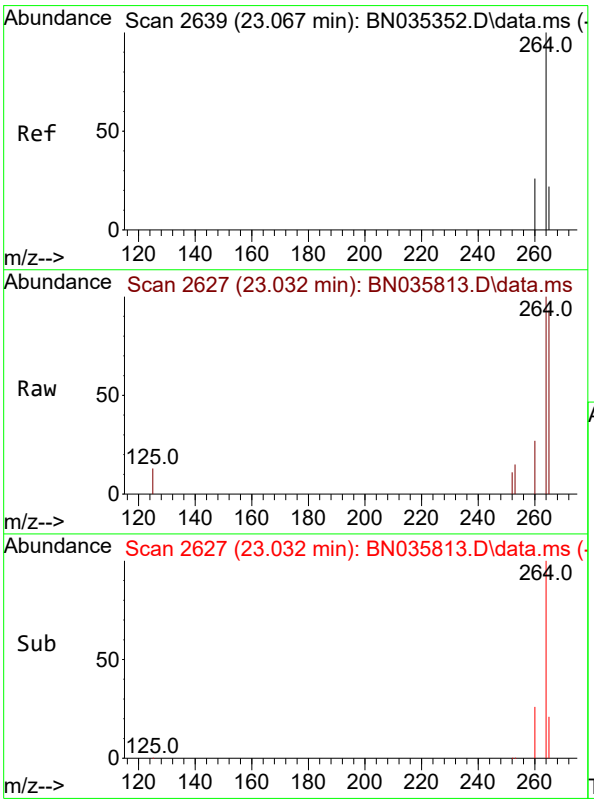
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Instrument :
BNA_N
ClientSampleId :
TT101D2-20241212DL

Tgt Ion:149 Resp: 479

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	6.5	2.7	4.1#

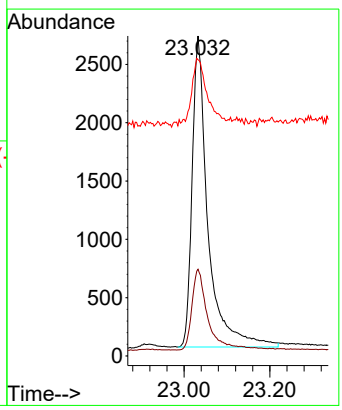




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035813.D
Acq: 24 Dec 2024 10:10

Tgt Ion:264 Resp: 6806

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	92.5	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

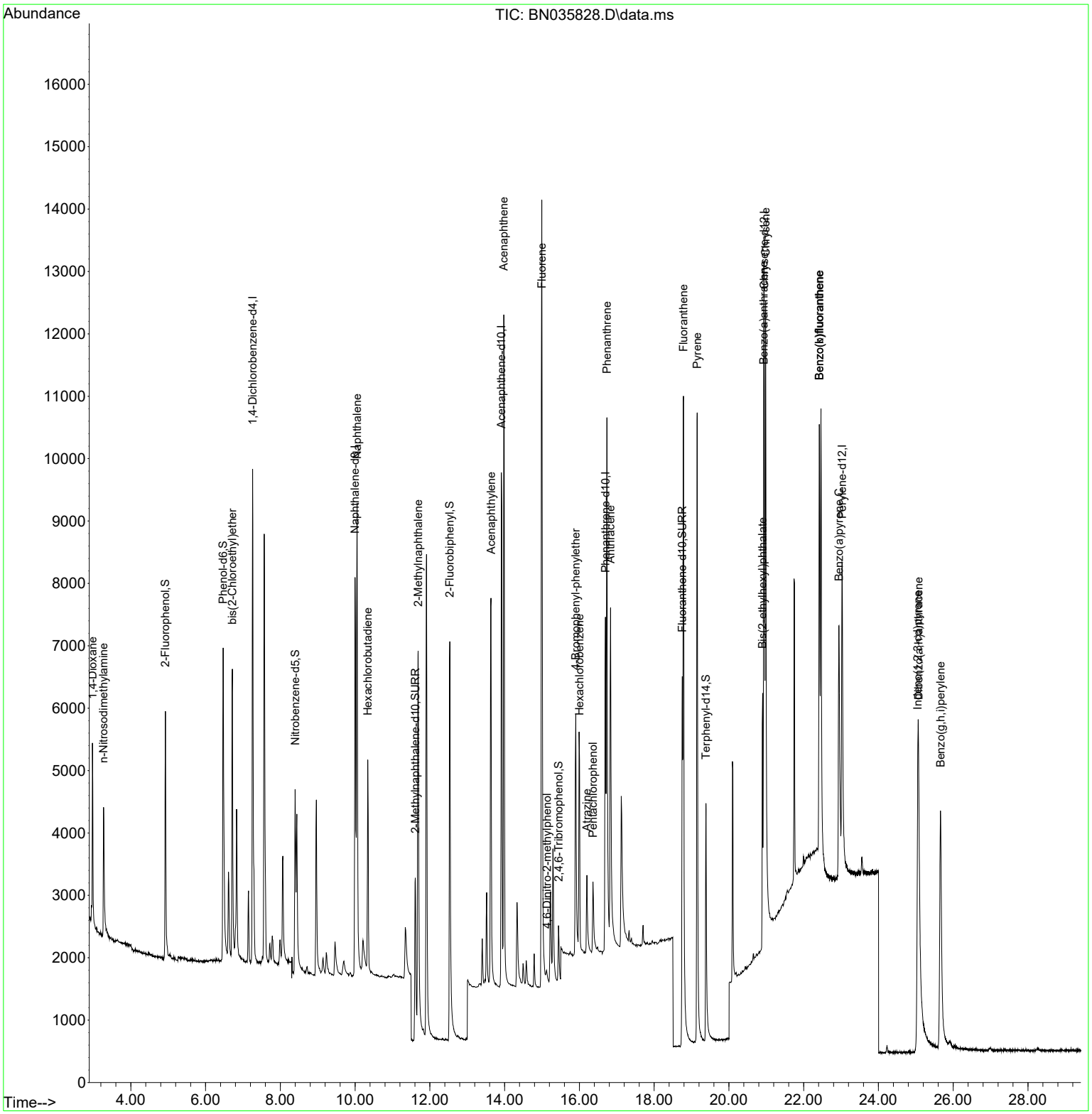
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400	ng		-0.02
7) Naphthalene-d8	9.998	136	9840	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400	ng		-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7447	0.400	ng		# 0.00
35) Perylene-d12	23.029	264	7426	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3589	0.358	ng		-0.01
5) Phenol-d6	6.470	99	6110	0.506	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3407	0.567	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5246	0.341	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1040	0.273	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8409	0.414	ng		-0.01
27) Fluoranthene-d10	18.752	212	9222	0.328	ng		0.00
31) Terphenyl-d14	19.384	244	6024	0.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2007	0.524	ng		99
3) n-Nitrosodimethylamine	3.270	42	1227	0.384	ng	#	82
6) bis(2-Chloroethyl)ether	6.715	93	4129	0.407	ng		99
9) Naphthalene	10.052	128	10772	0.415	ng		99
10) Hexachlorobutadiene	10.340	225	2784	0.465	ng	#	99
12) 2-Methylnaphthalene	11.686	142	6505	0.350	ng		99
16) Acenaphthylene	13.636	152	8453	0.375	ng		99
17) Acenaphthene	13.978	154	5821	0.389	ng		100
18) Fluorene	14.993	166	7311	0.341	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	239	0.245	ng	#	24
21) 4-Bromophenyl-phenylether	15.904	248	2287	0.395	ng	#	91
22) Hexachlorobenzene	16.003	284	3296	0.484	ng		99
23) Atrazine	16.202	200	1504	0.365	ng		95
24) Pentachlorophenol	16.363	266	898	0.303	ng		89
25) Phenanthrene	16.735	178	10097	0.371	ng		100
26) Anthracene	16.835	178	8619	0.350	ng		100
28) Fluoranthene	18.784	202	11973	0.326	ng		99
30) Pyrene	19.151	202	12223	0.445	ng		100
32) Benzo(a)anthracene	20.929	228	8203	0.315	ng		99
33) Chrysene	20.982	228	11628	0.433	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4135	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	10298	0.355	ng	#	83
37) Benzo(b)fluoranthene	22.418	252	17240	0.635	ng	#	95
38) Benzo(k)fluoranthene	22.418	252	17240	0.645	ng		95
39) Benzo(a)pyrene	22.944	252	8337	0.373	ng	#	87
40) Dibenzo(a,h)anthracene	25.073	278	7409	0.323	ng	#	90
41) Benzo(g,h,i)perylene	25.663	276	9651	0.403	ng		98

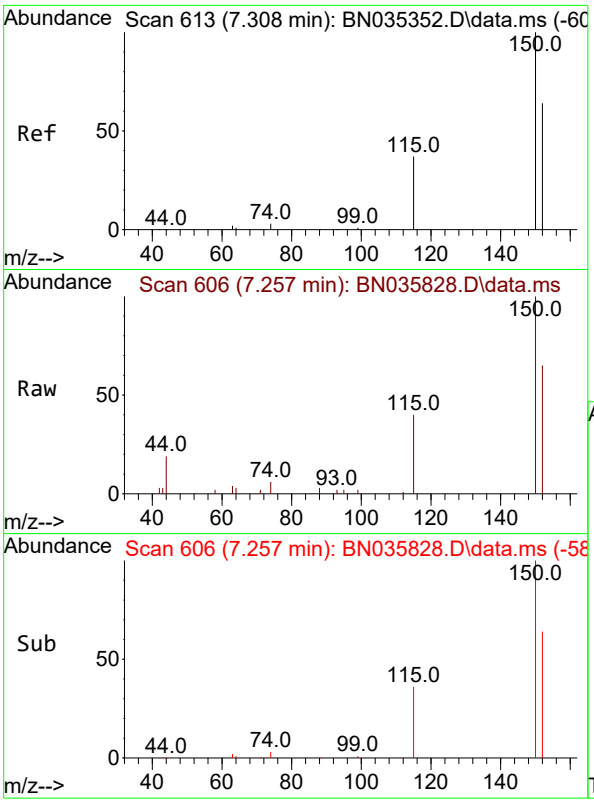
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



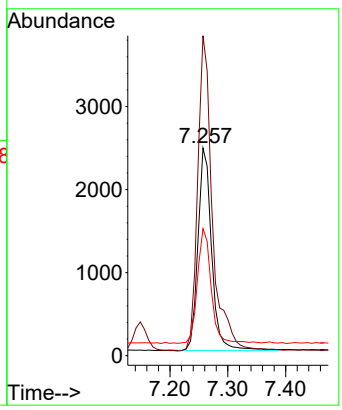


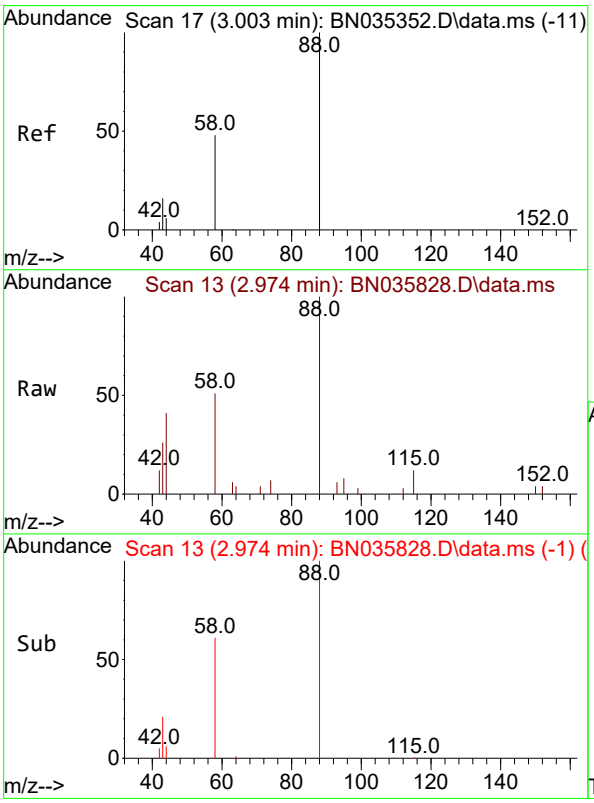
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4008

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	61.2	49.6	74.4

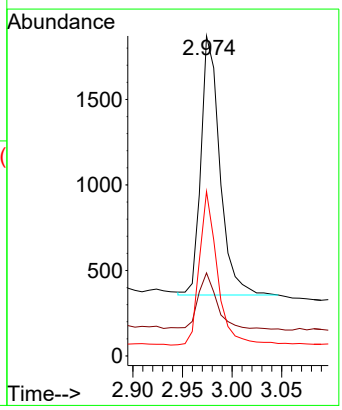


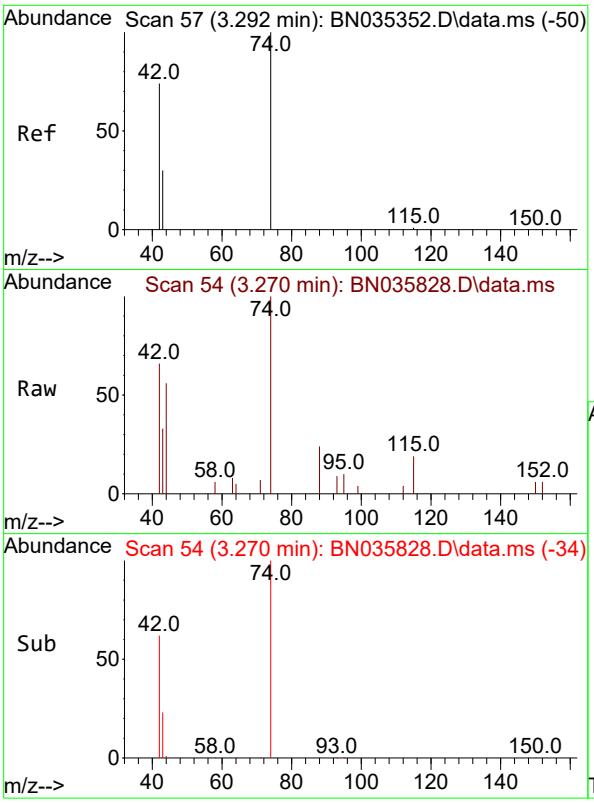


#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	56.9	44.5	66.7



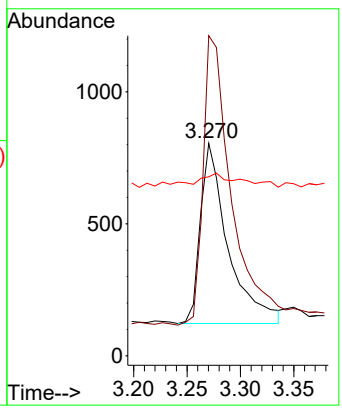


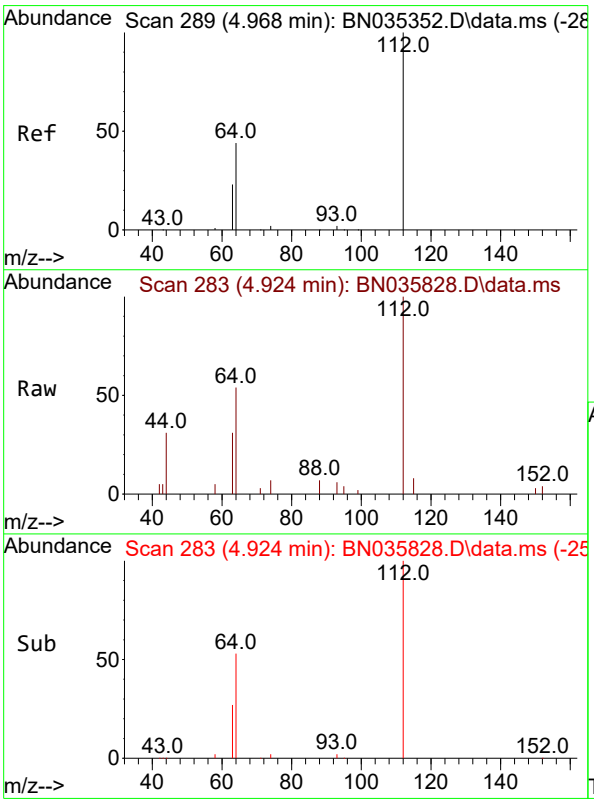
#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1227

Ion	Ratio	Lower	Upper
42	100		
74	178.7	124.9	187.3
44	14.2	2.2	3.4#

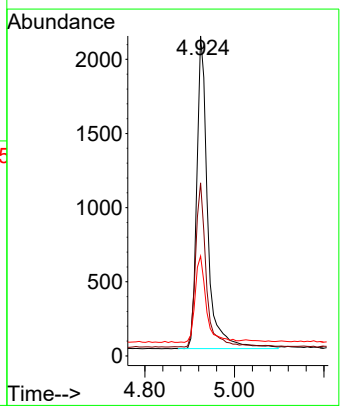


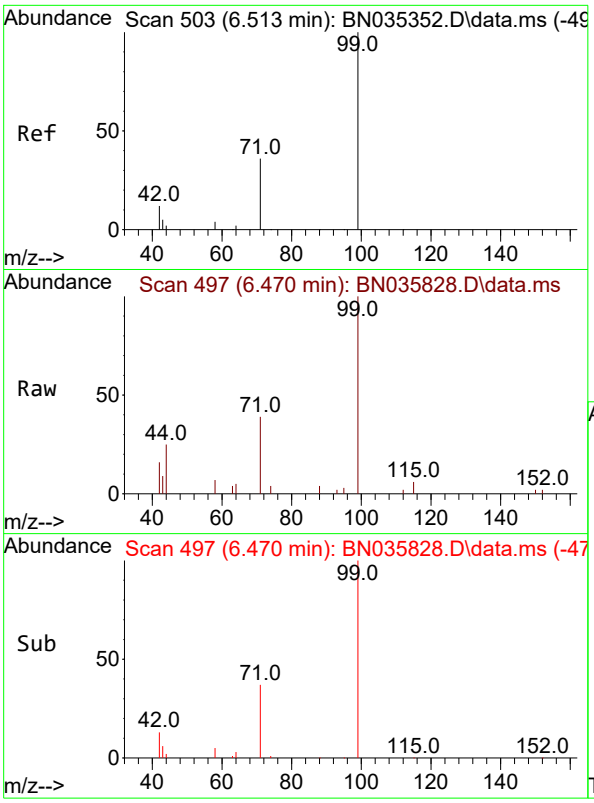


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.8	59.8
63	27.8	21.0	31.6



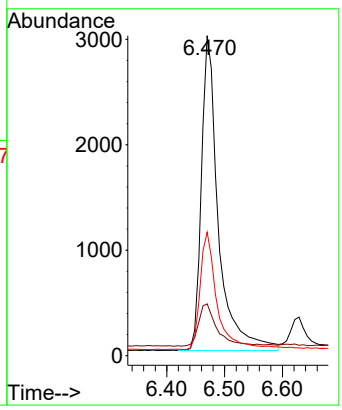


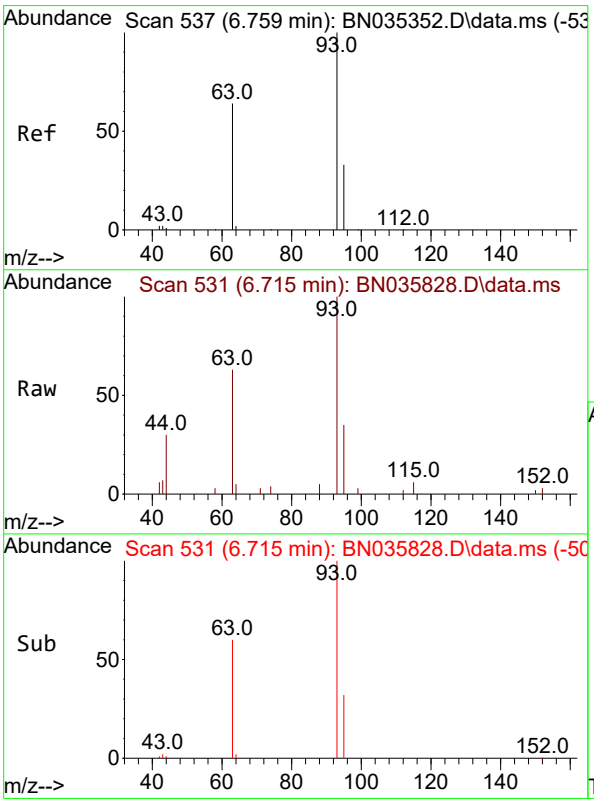
#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6110

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.7	29.3	43.9

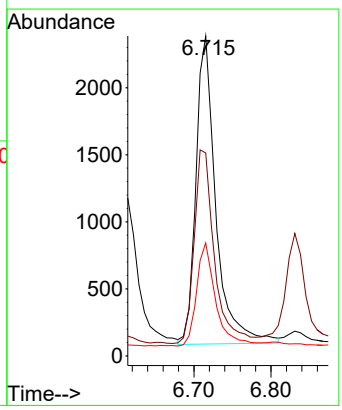


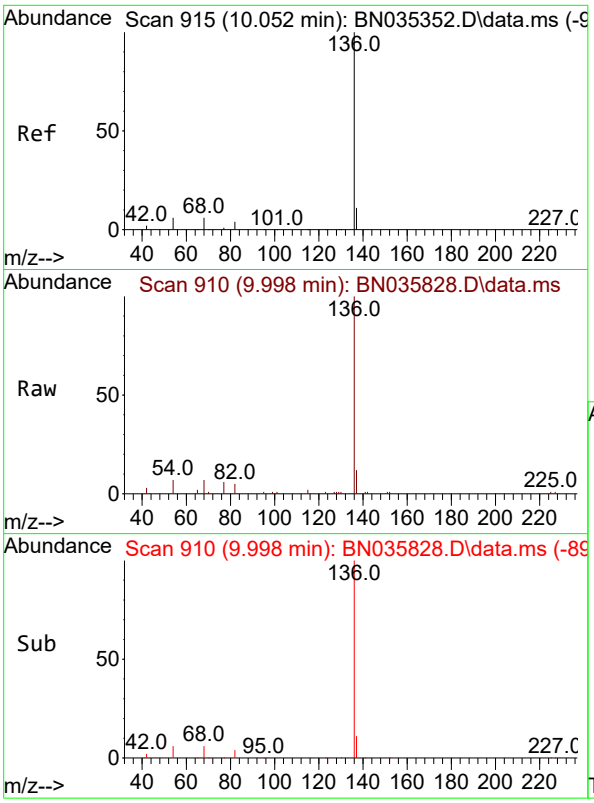


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	31.8	25.7	38.5



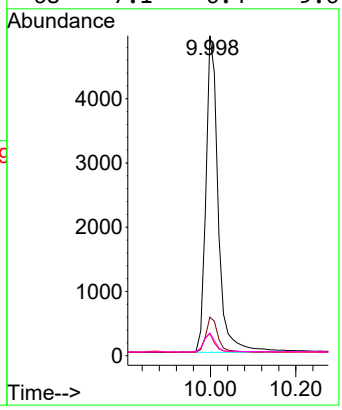


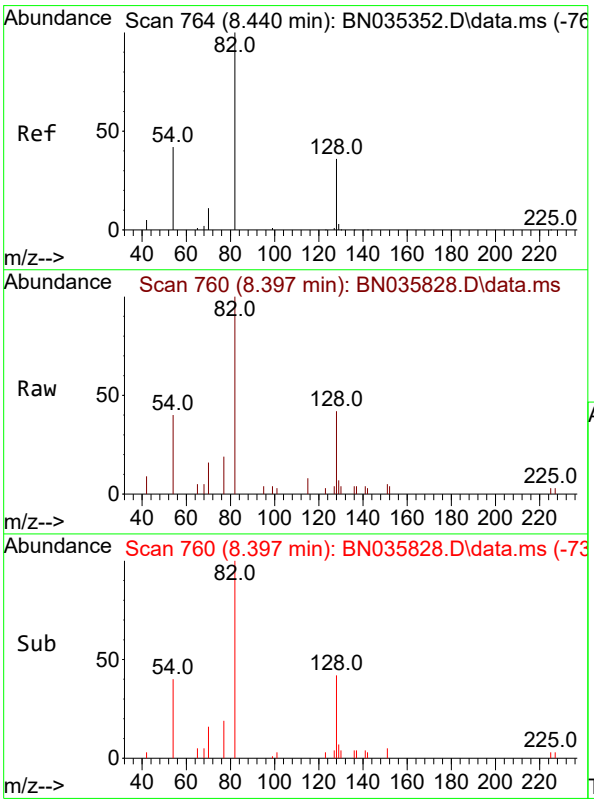
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 9840

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

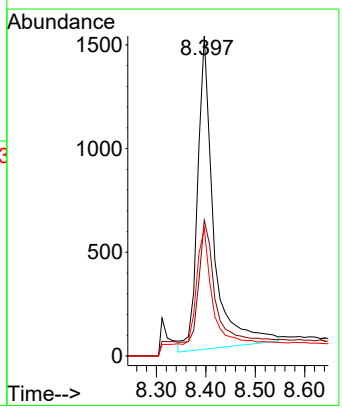


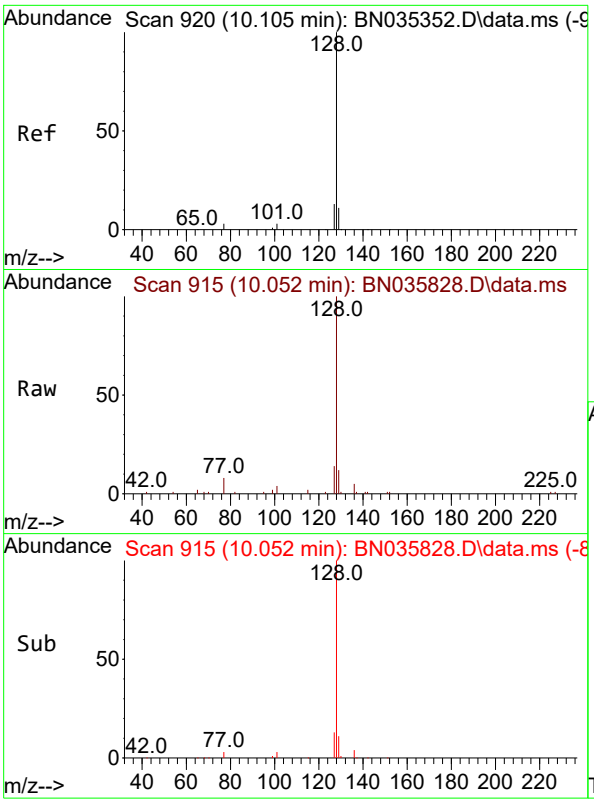


#8
Nitrobenzene-d5
Concen: 0.567 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3407

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	39.9	36.7	55.1



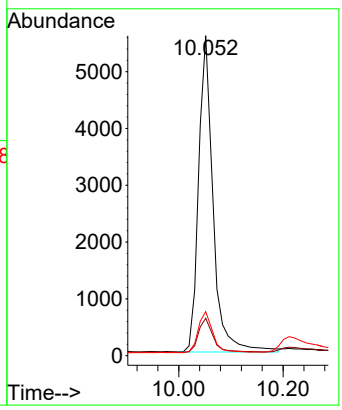


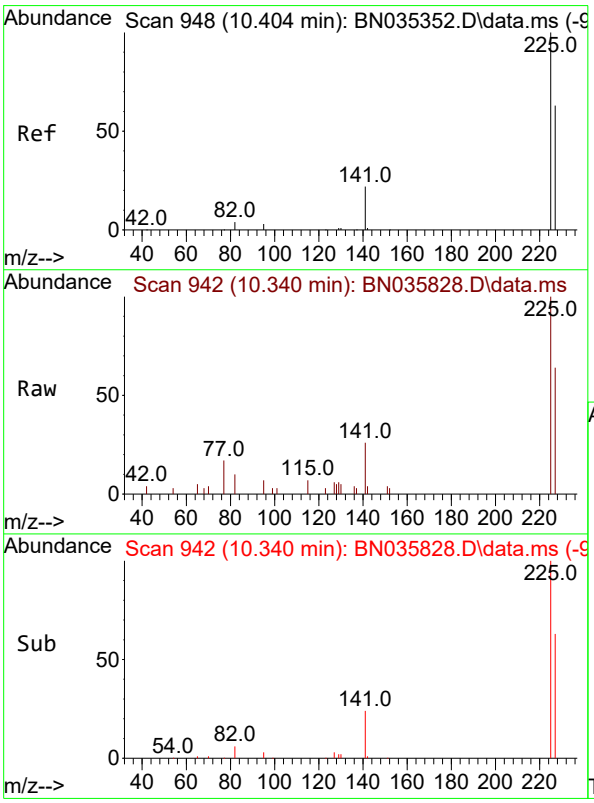
#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 10772

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.8	11.4	17.2

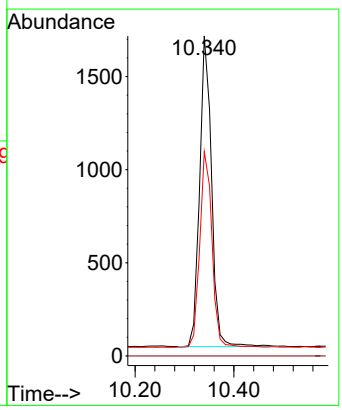


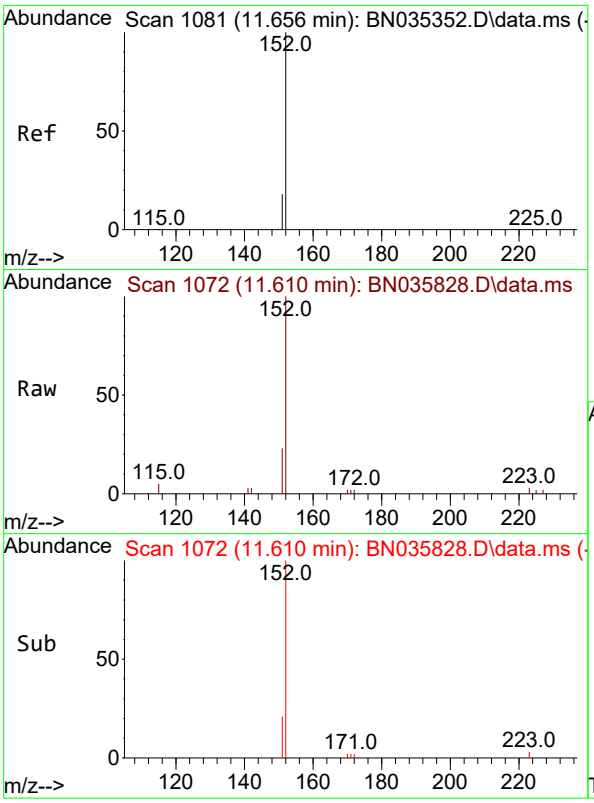


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9



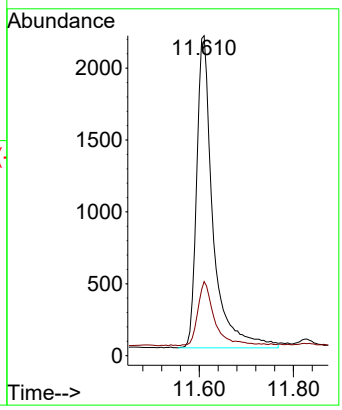


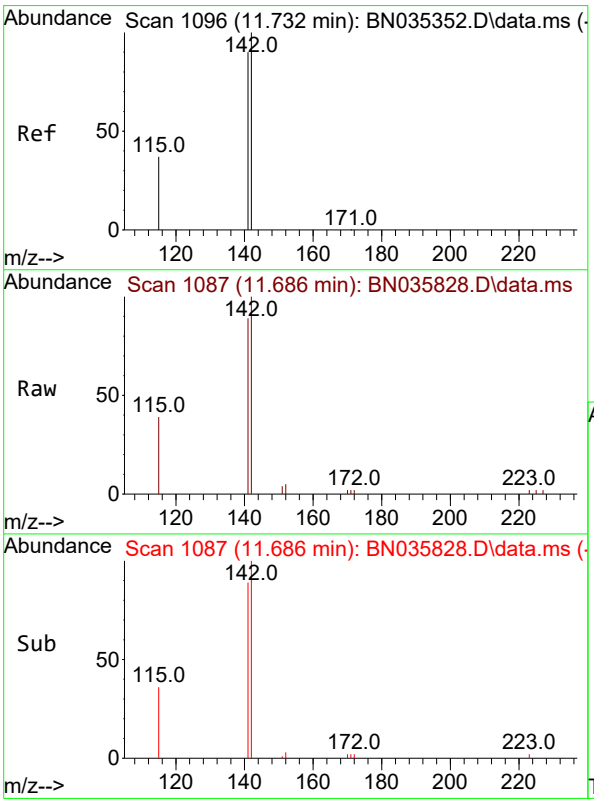
#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5246

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

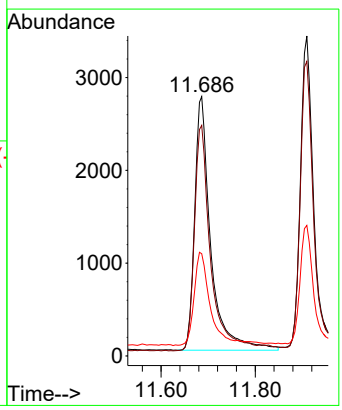


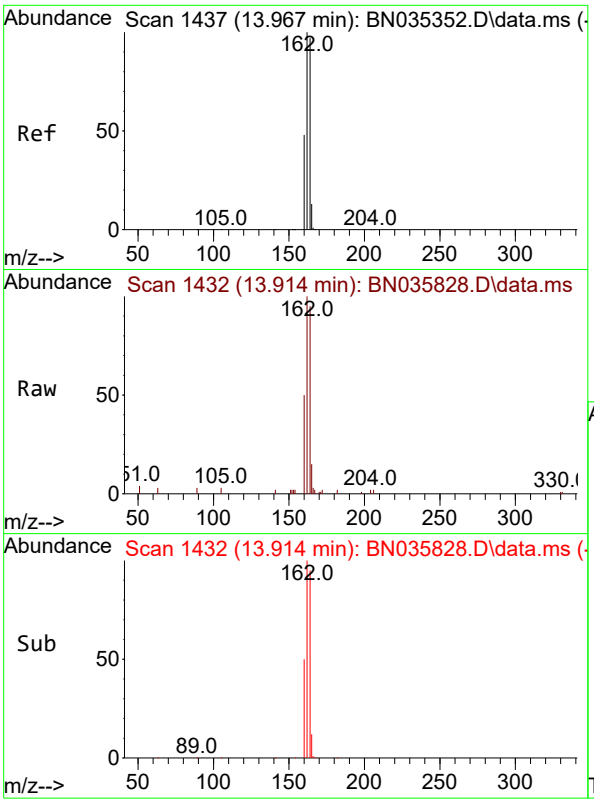


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

Ion	Ratio	Lower	Upper
142	100		
141	88.9	72.2	108.4
115	39.4	31.4	47.0



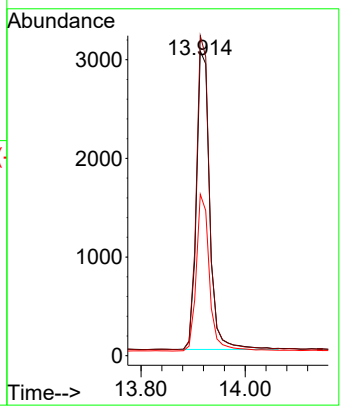


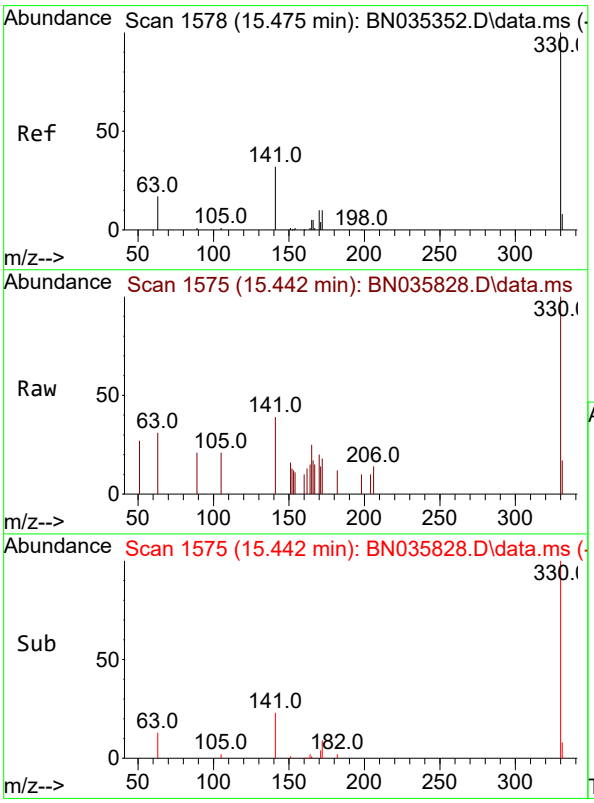
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5373

Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	53.0	40.1	60.1

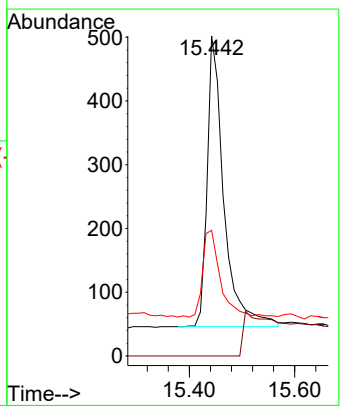


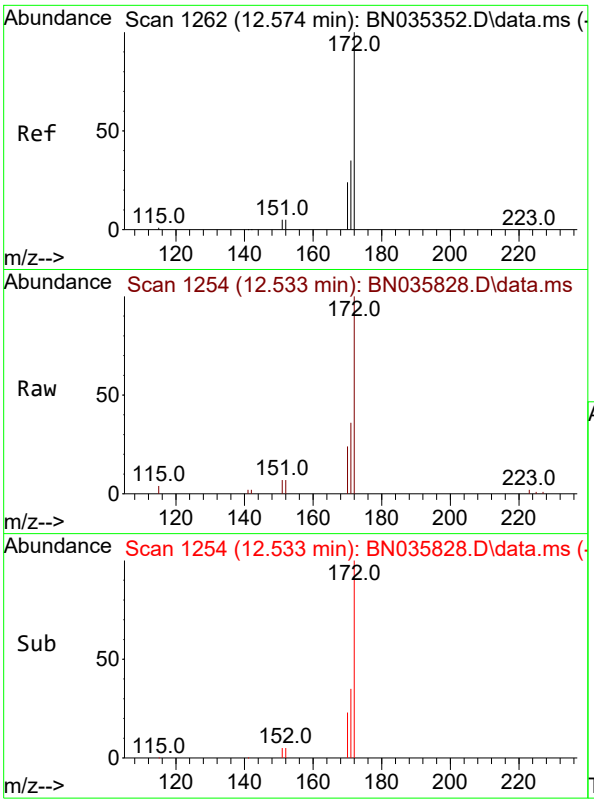


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.0	26.6	40.0



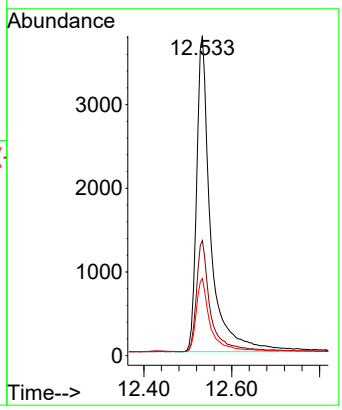


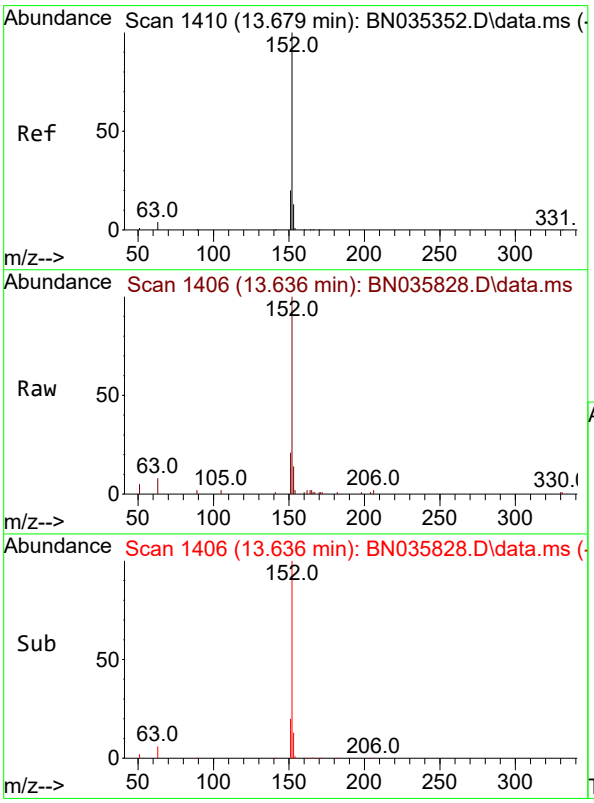
#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 8409

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.1	19.8	29.8

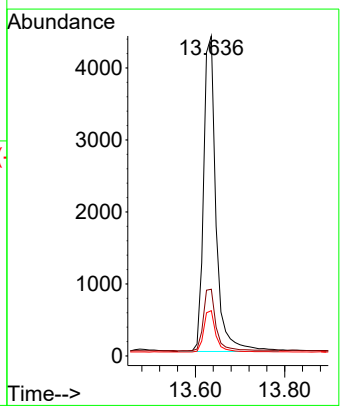


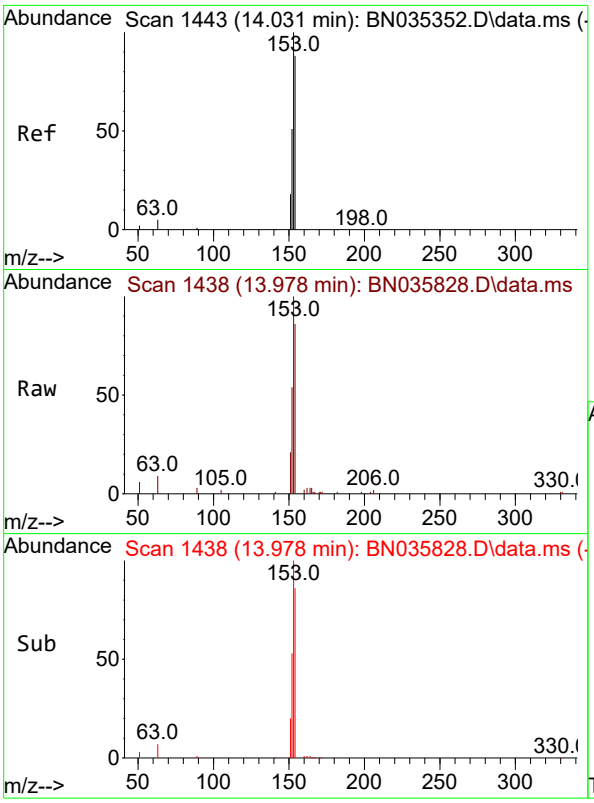


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



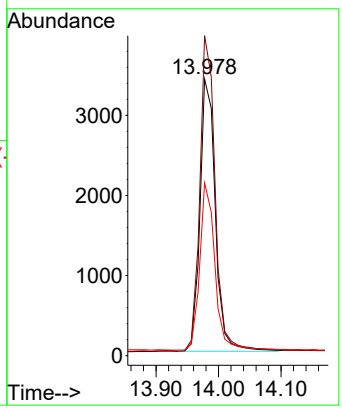


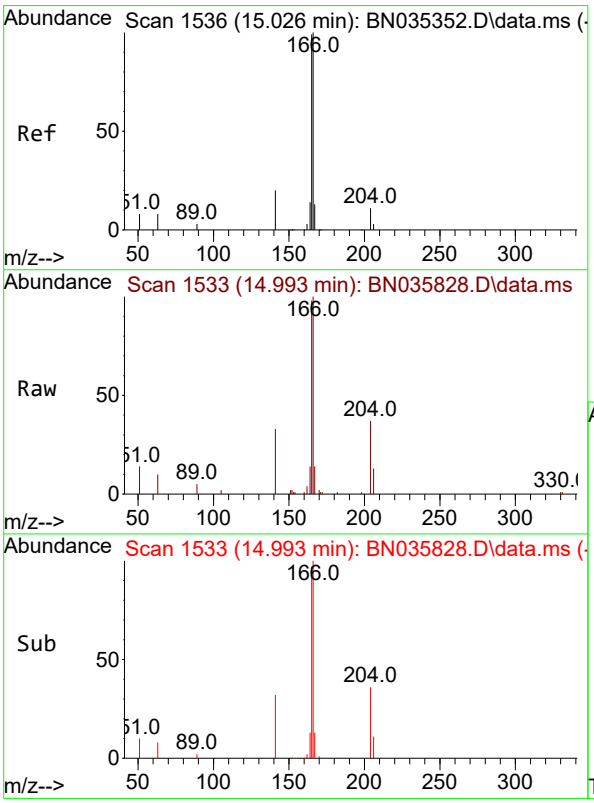
#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 5821

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.8	49.0	73.6

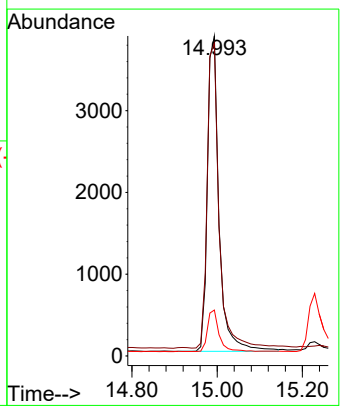


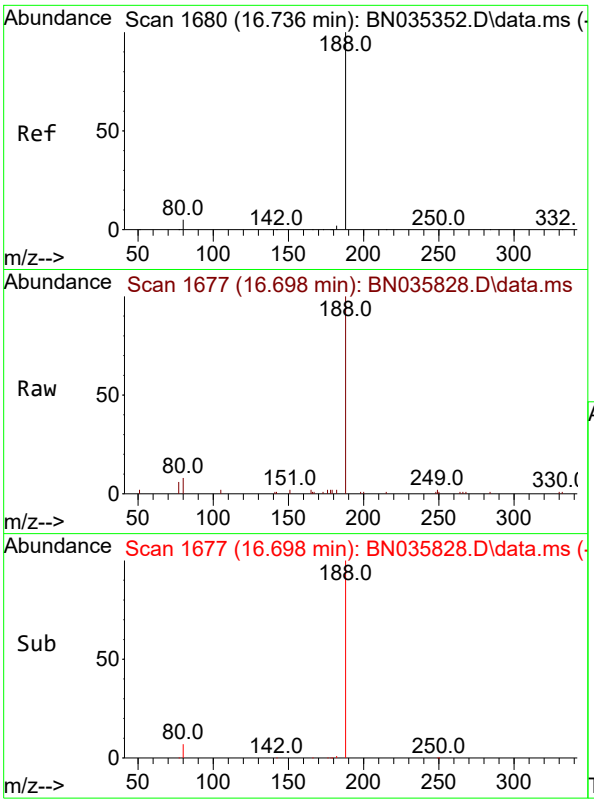


#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.0	10.8	16.2



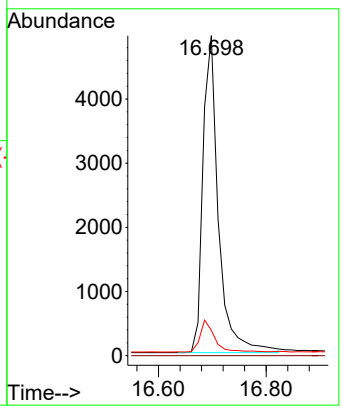


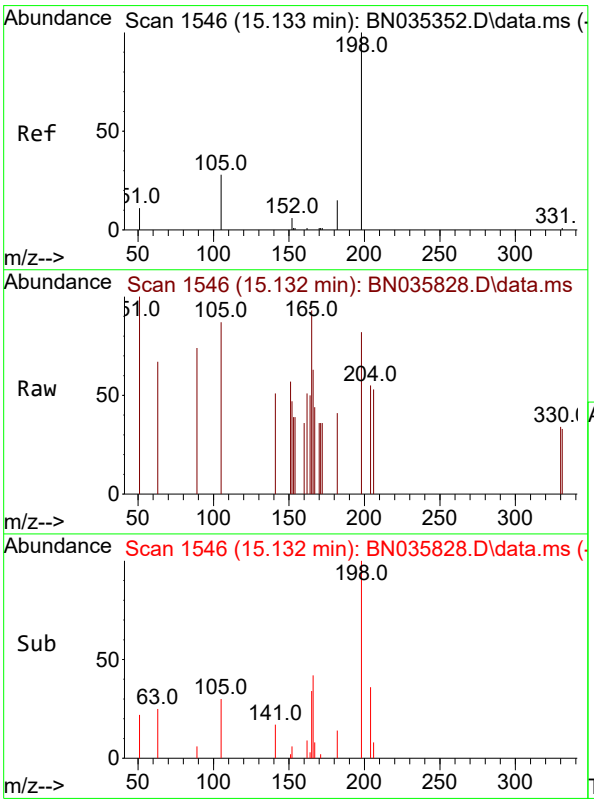
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9905

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#

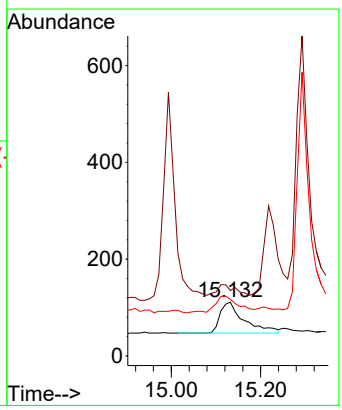


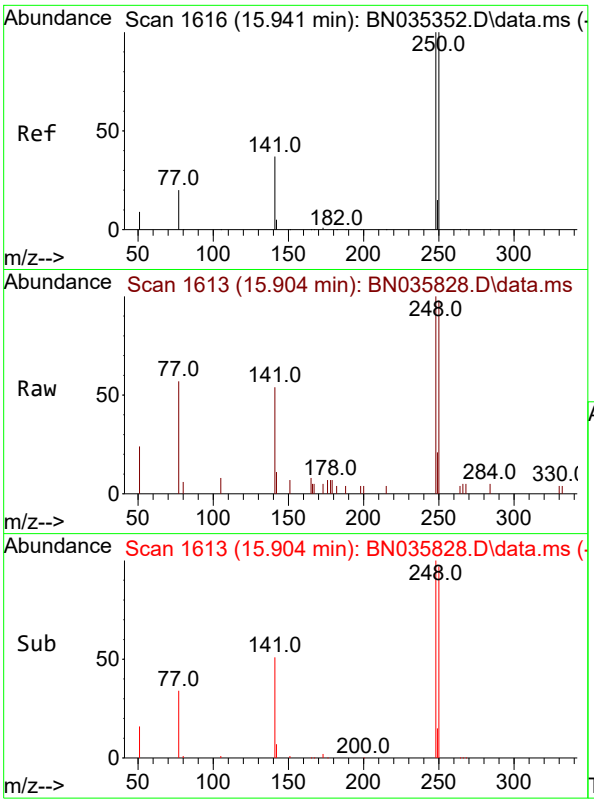


#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	121.6	46.5	69.7#
105	105.4	45.3	67.9#



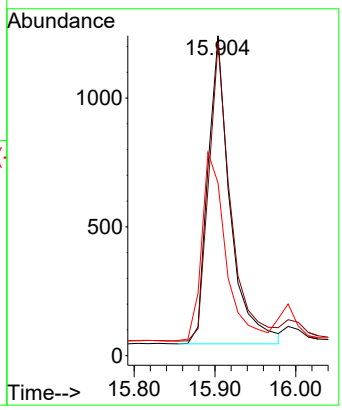


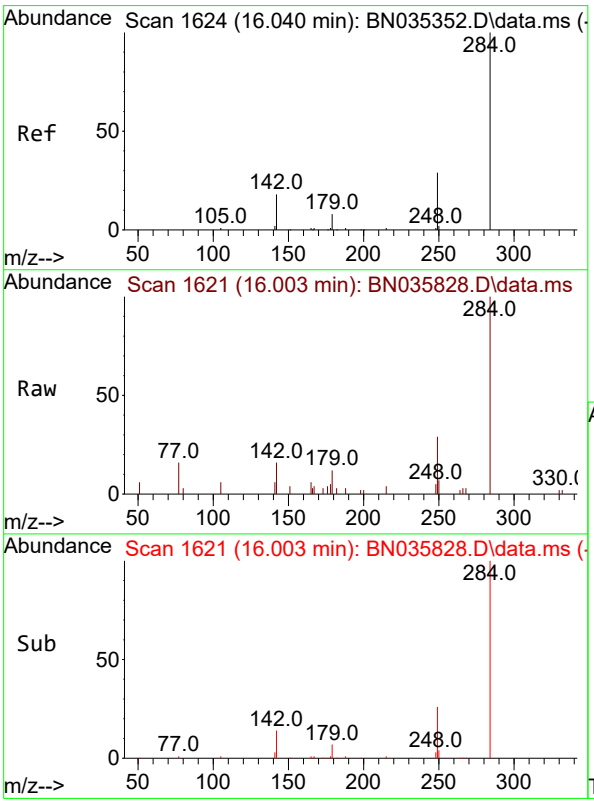
#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2287

Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	53.9	31.5	47.3#

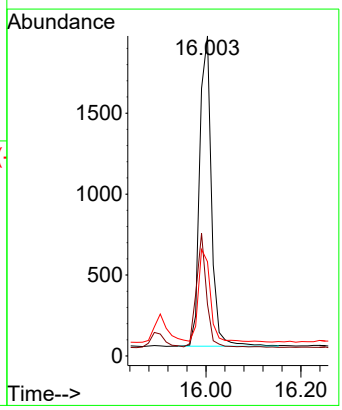


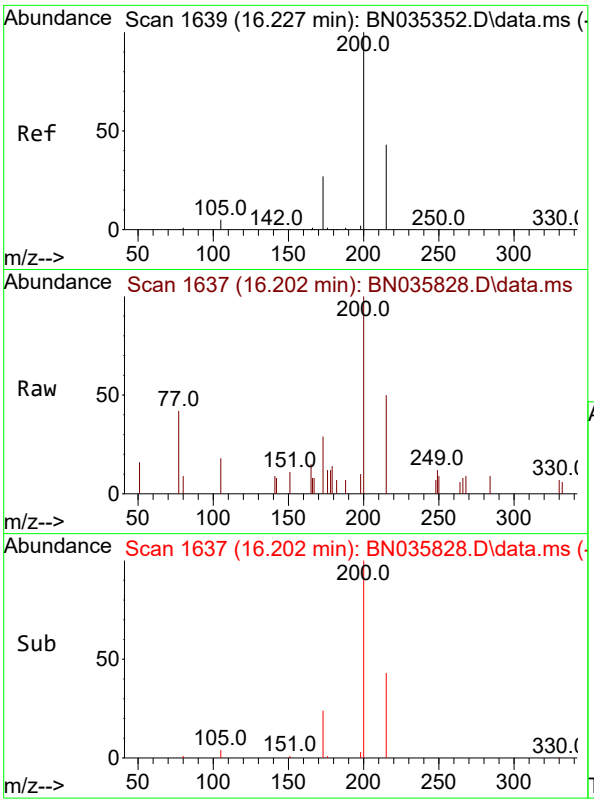


#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.7	40.1
249	30.7	24.6	36.8



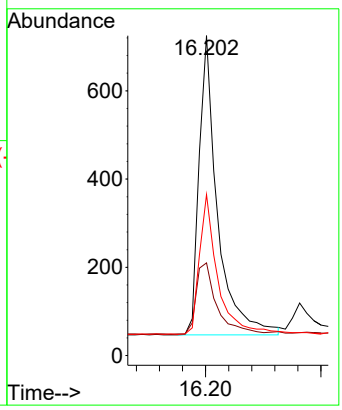


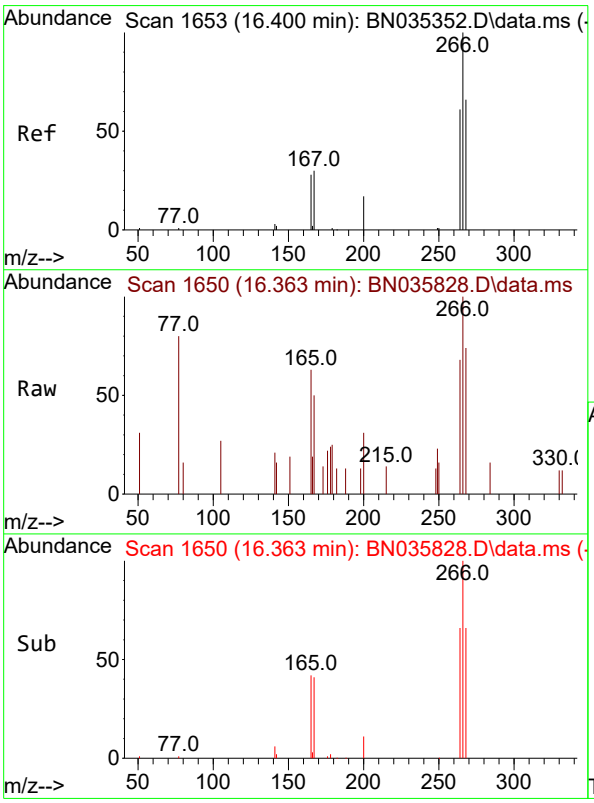
#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1504

Ion	Ratio	Lower	Upper
200	100		
173	29.0	24.1	36.1
215	50.3	36.9	55.3

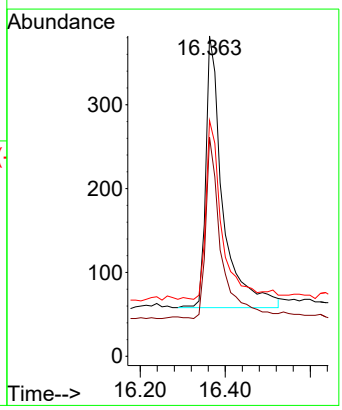


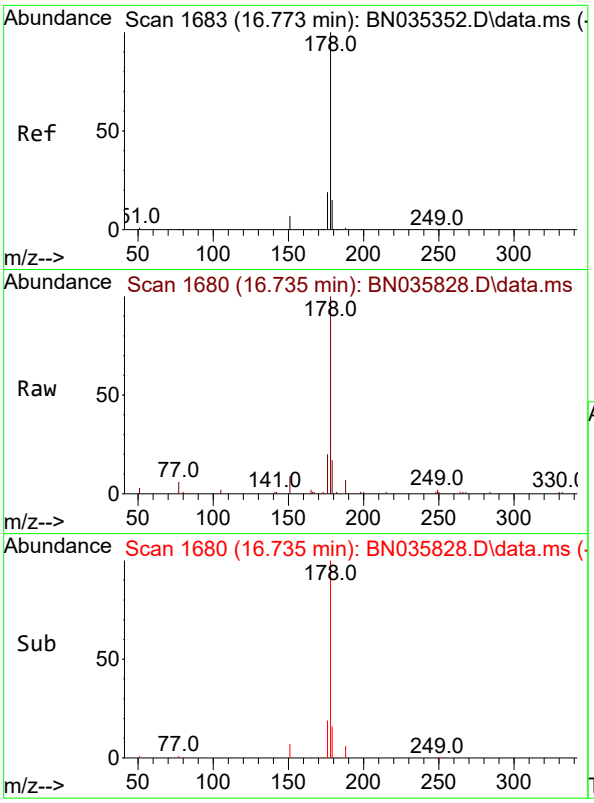


#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.1	43.3	64.9



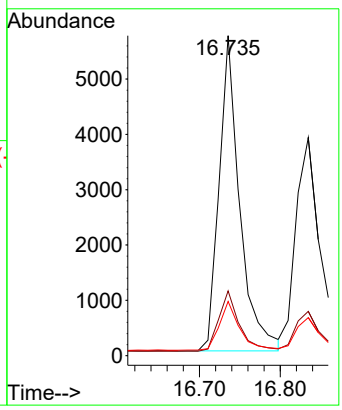


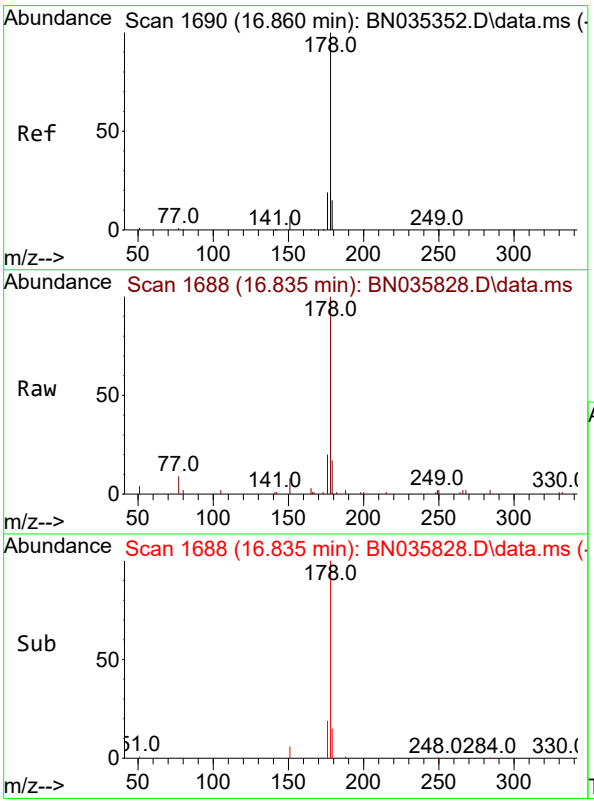
#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 10097

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

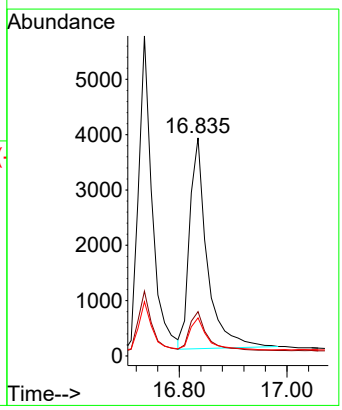


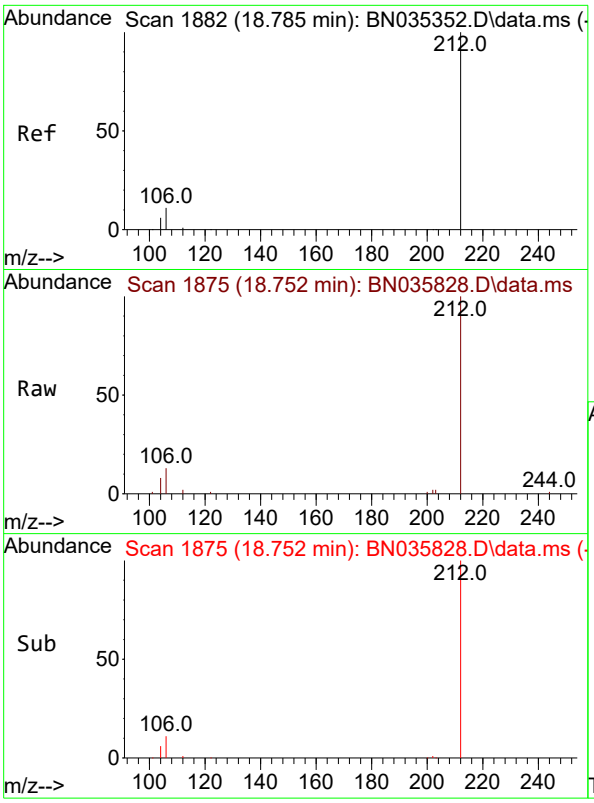


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8



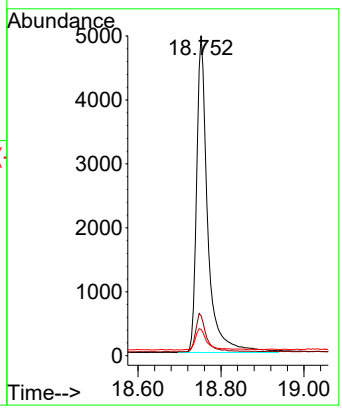


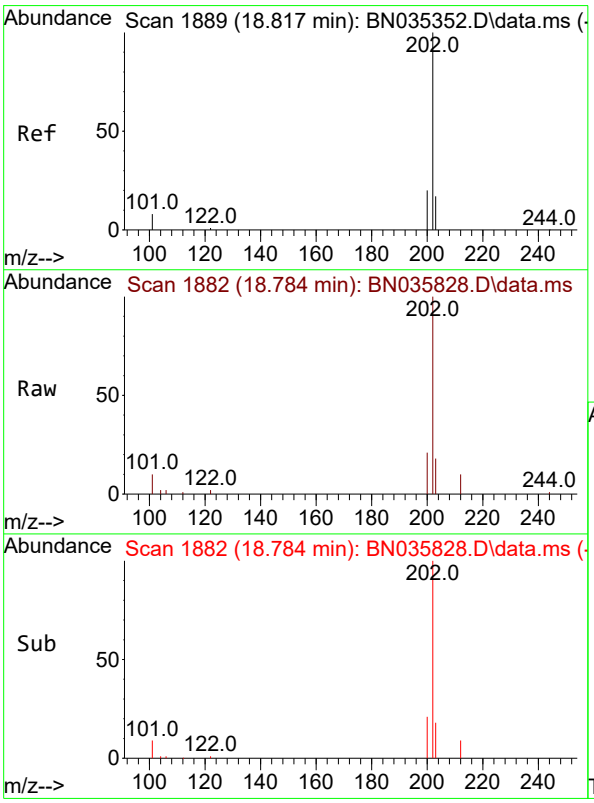
#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9222

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	7.0	5.3	7.9

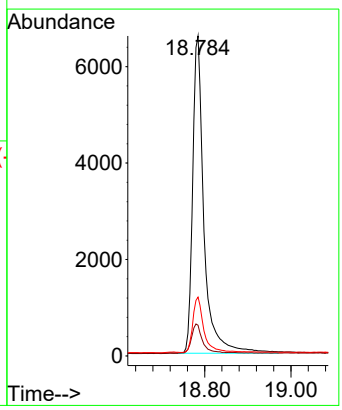


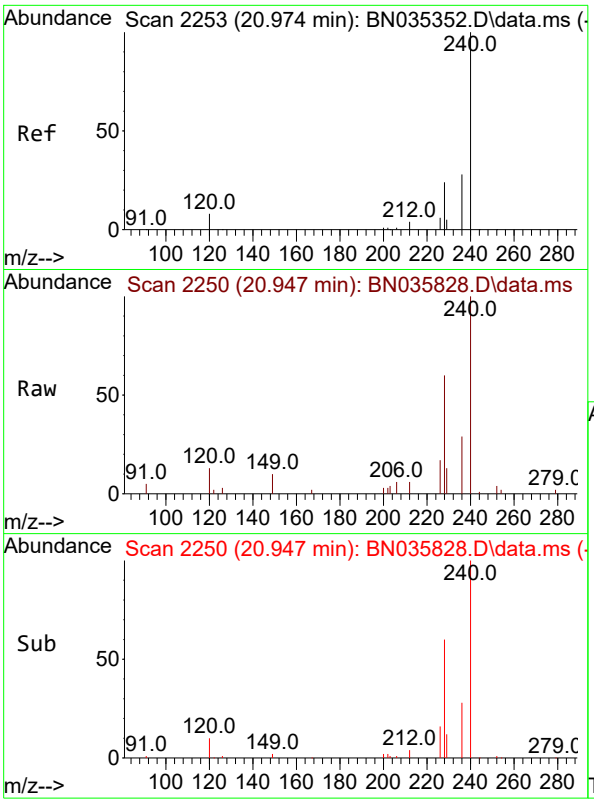


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.3	13.7	20.5



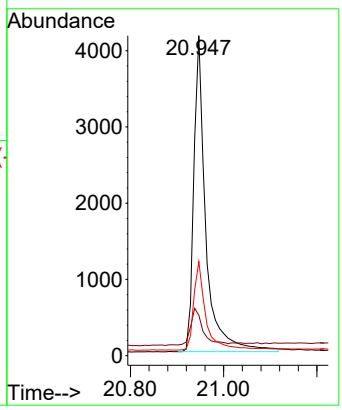


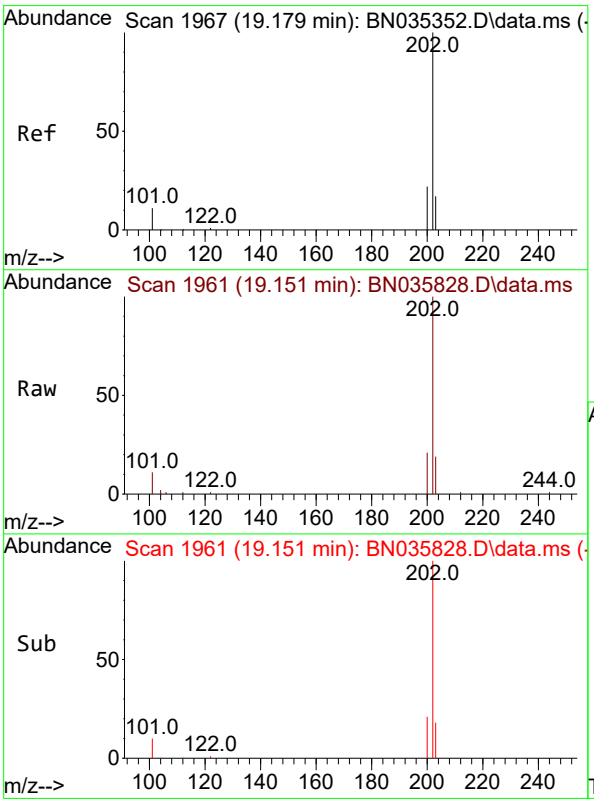
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 7447

Ion	Ratio	Lower	Upper
240	100		
120	12.6	7.9	11.9#
236	29.4	22.9	34.3

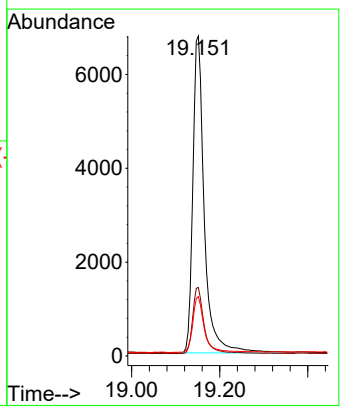


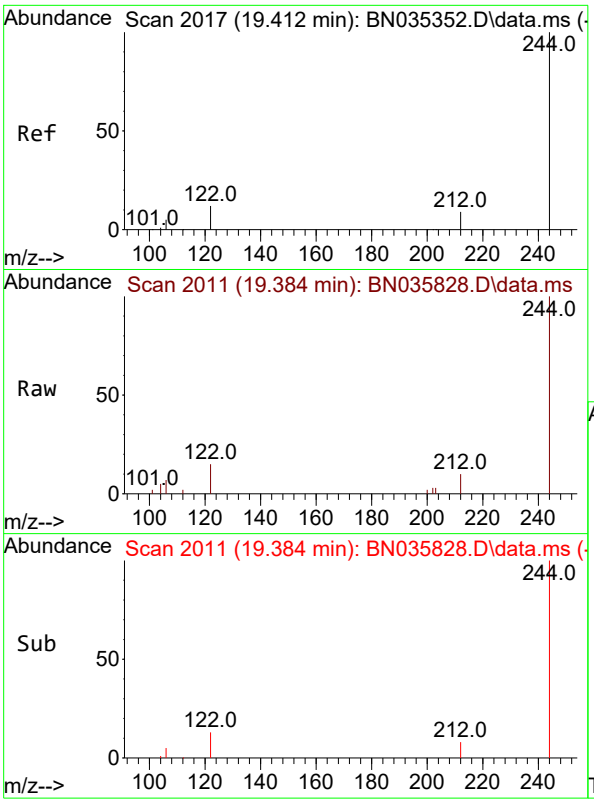


#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



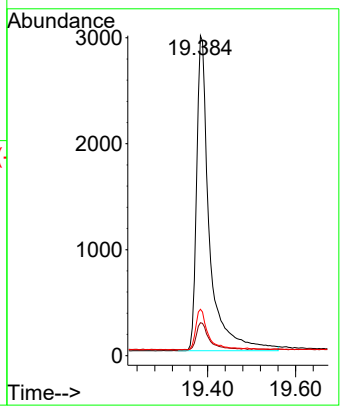


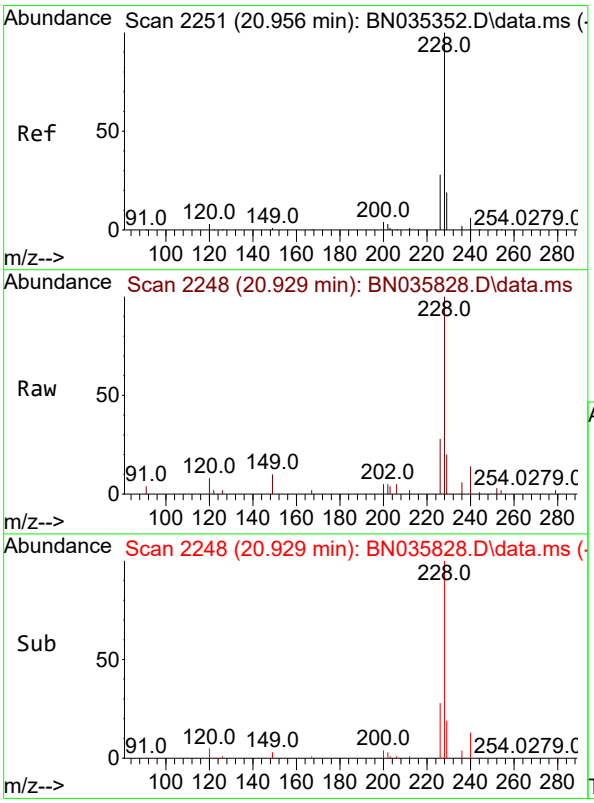
#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6024

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5

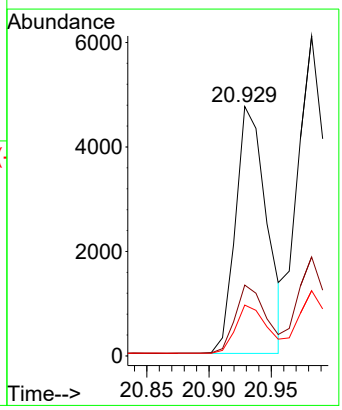


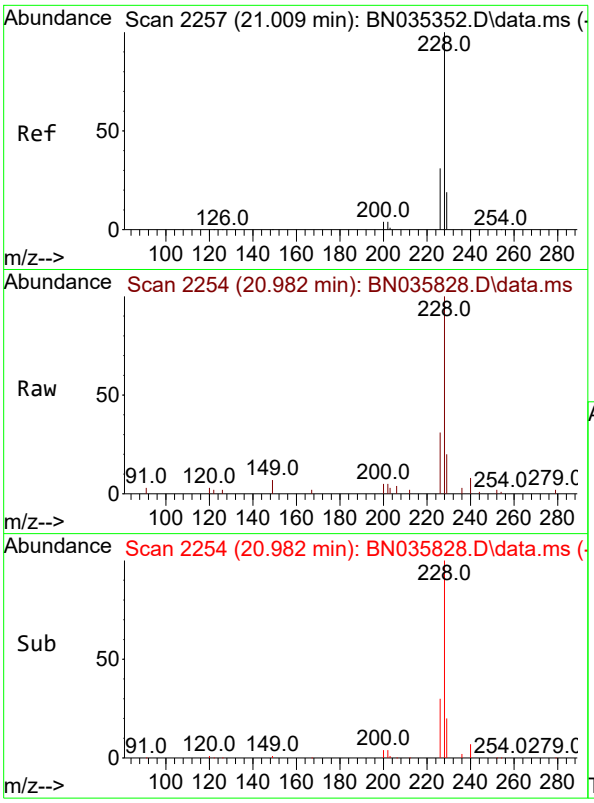


#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8



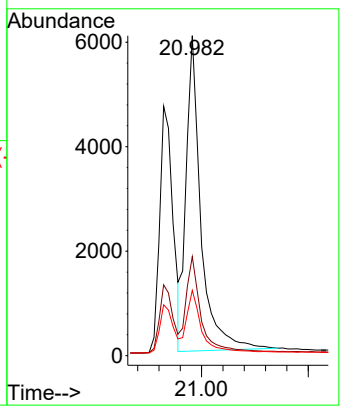


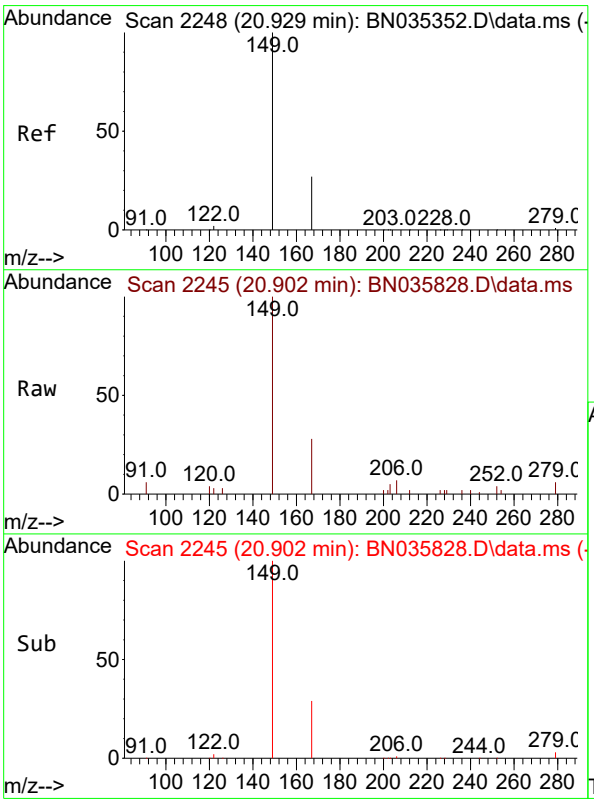
#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 11628

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	20.4	15.9	23.9

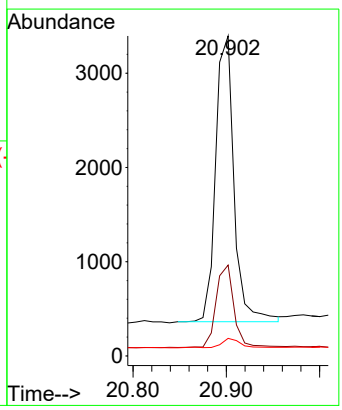


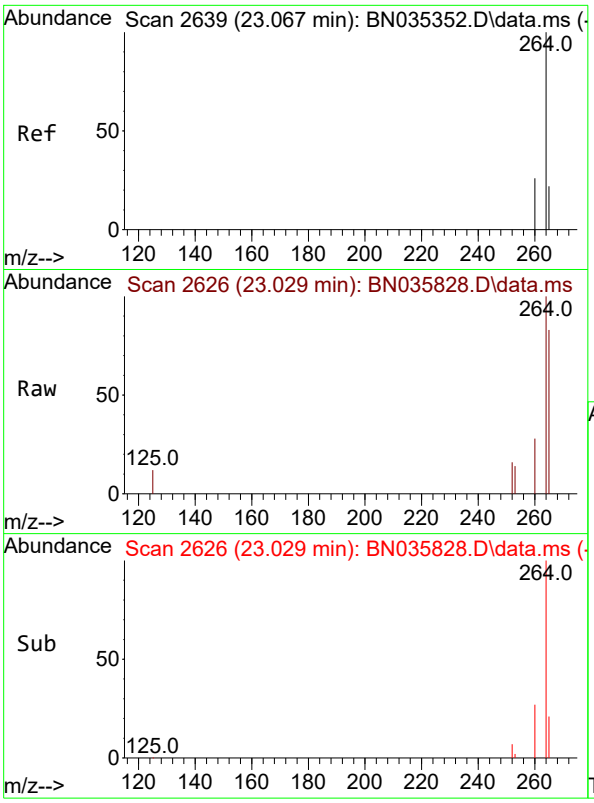


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1



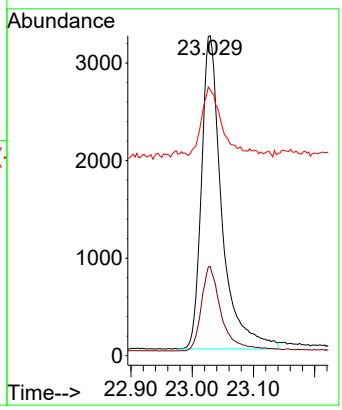


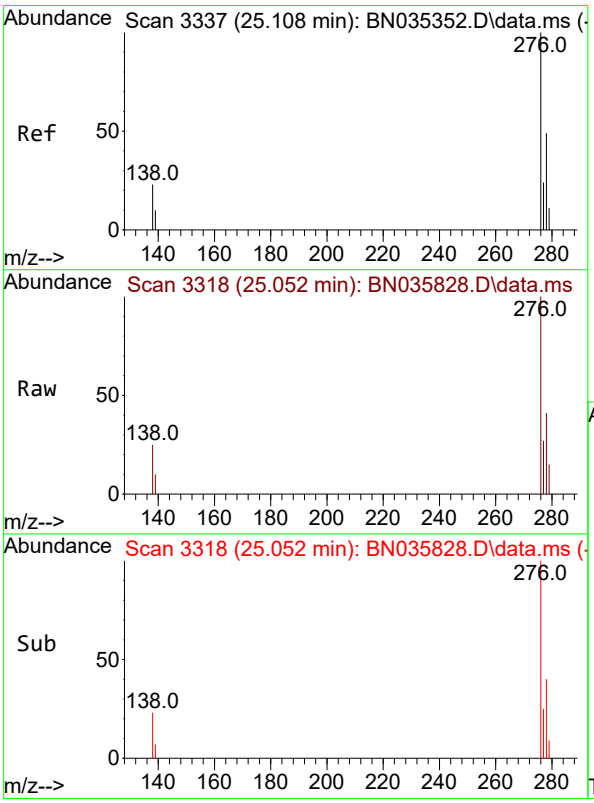
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 7426

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	83.1	40.2	60.4#

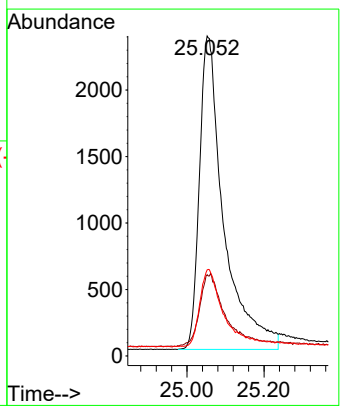


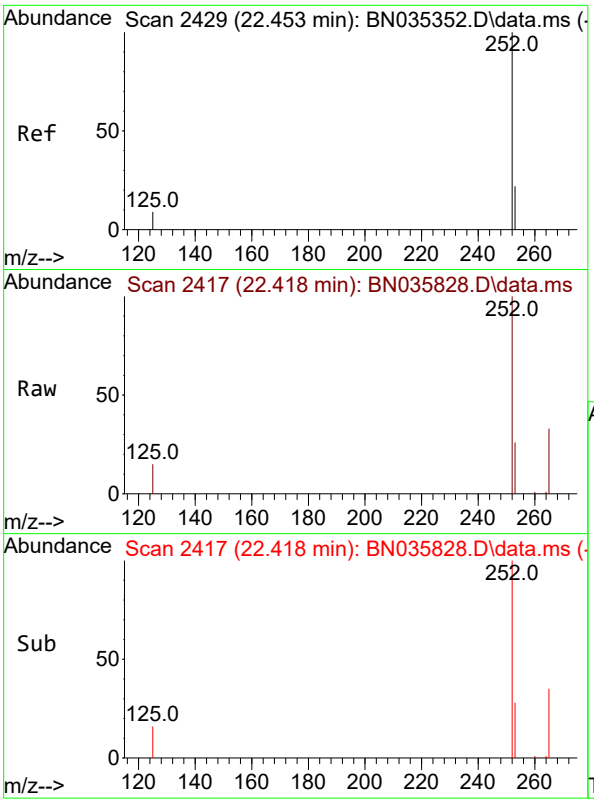


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

Ion	Ratio	Lower	Upper
276	100		
138	8.7	19.4	29.0#
277	22.9	19.8	29.6



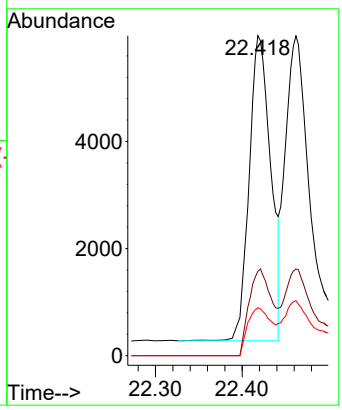


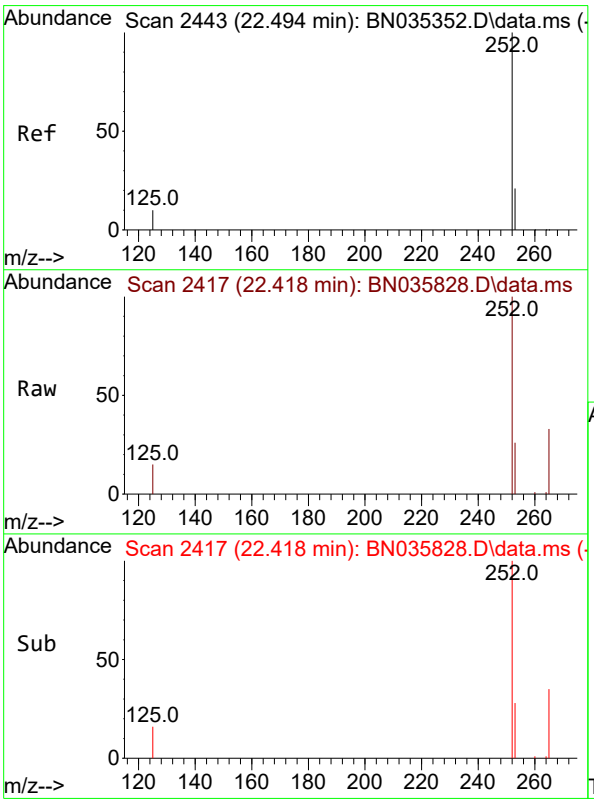
#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 17240

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	15.0	9.6	14.4#

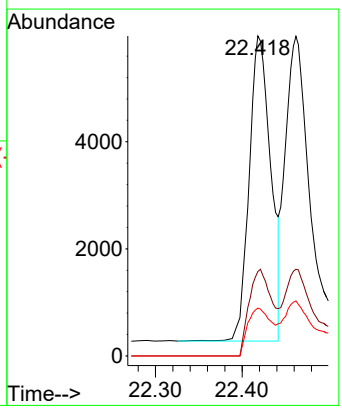


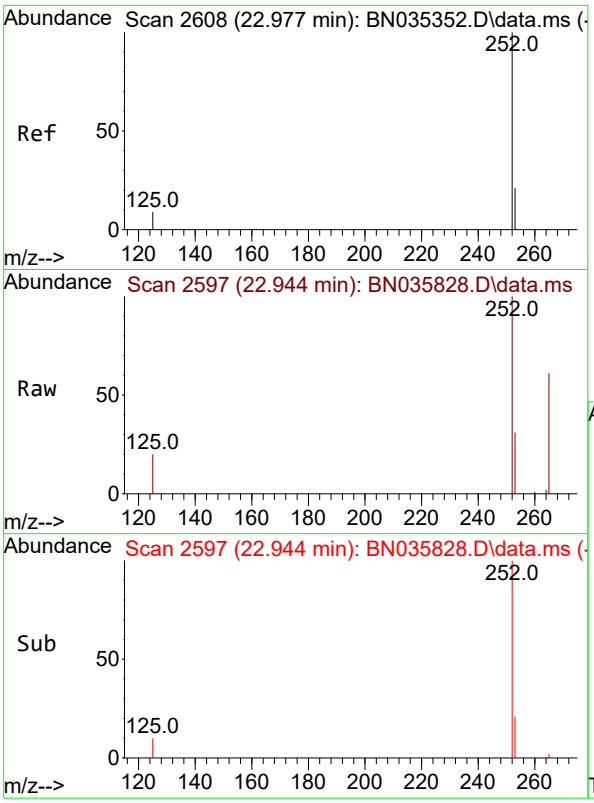


#38
Benzo(k)fluoranthene
Concen: 0.645 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 17240

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.5	29.3
125	15.0	10.2	15.4



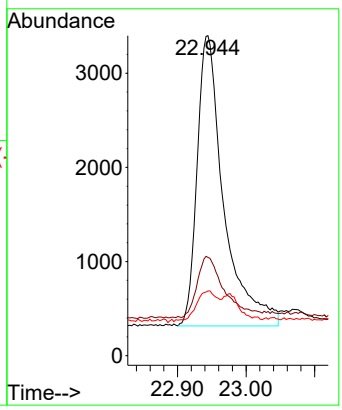


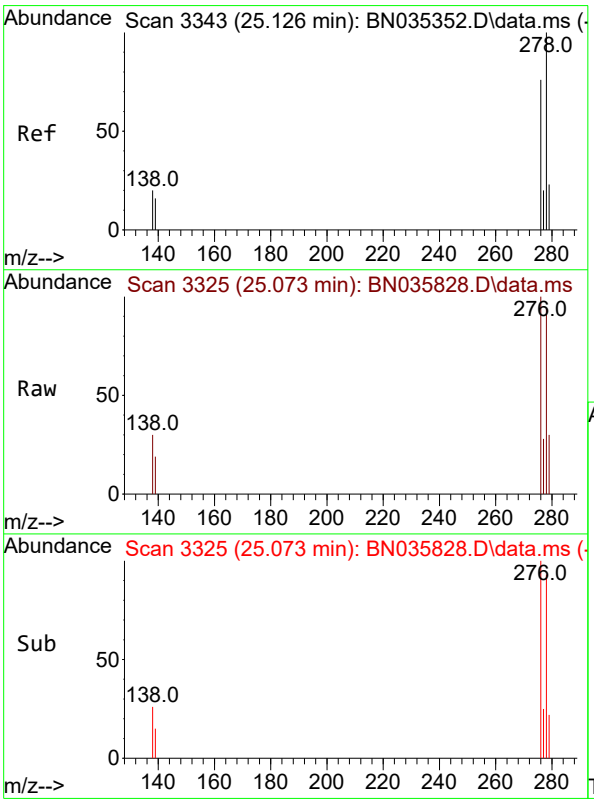
#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 8337

Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	20.2	10.9	16.3#

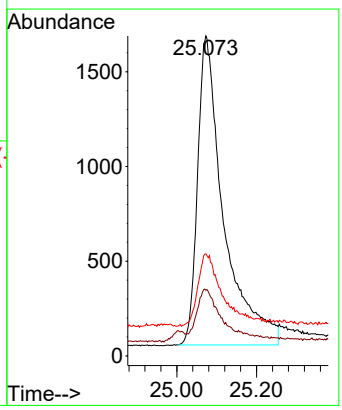


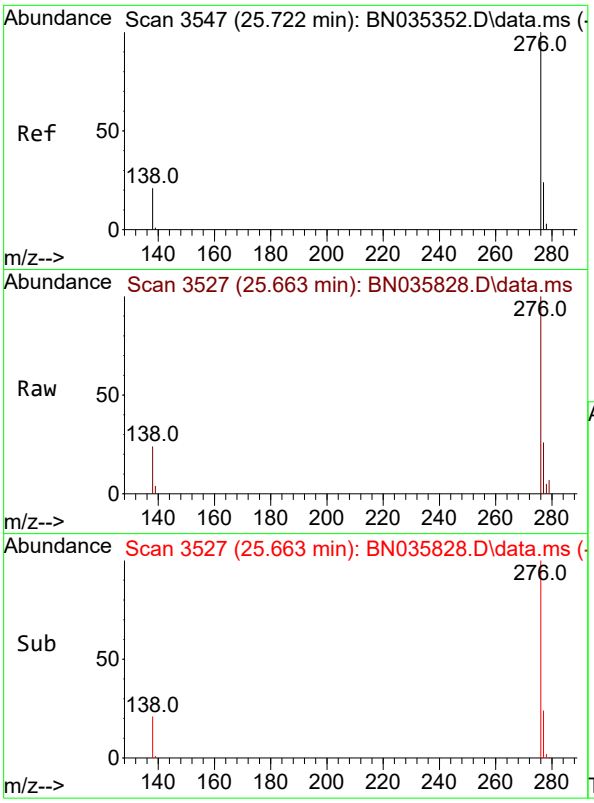


#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.2	21.4
279	31.9	20.5	30.7#



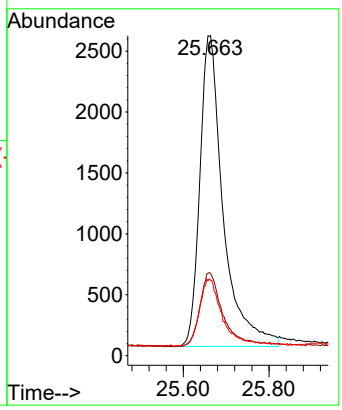


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 9651

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	23.6	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng		#-0.02
35) Perylene-d12	23.021	264	10817	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3777	0.402	ng		-0.01
5) Phenol-d6	6.470	99	4175	0.369	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3148	0.553	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348	ng		-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350	ng		-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398	ng		-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350	ng		-0.02
31) Terphenyl-d14	19.375	244	7783	0.397	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1520	0.423	ng		97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409	ng	#	82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379	ng		99
9) Naphthalene	10.041	128	9440	0.384	ng		100
10) Hexachlorobutadiene	10.340	225	2352	0.415	ng	#	99
12) 2-Methylnaphthalene	11.676	142	5939	0.337	ng		98
16) Acenaphthylene	13.625	152	8340	0.369	ng		100
17) Acenaphthene	13.978	154	5695	0.379	ng		99
18) Fluorene	14.983	166	7523	0.350	ng		99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475	ng	#	39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371	ng	#	87
22) Hexachlorobenzene	15.991	284	3482	0.450	ng		95
23) Atrazine	16.189	200	1843	0.393	ng		97
24) Pentachlorophenol	16.363	266	1383	0.411	ng		87
25) Phenanthrene	16.723	178	11602	0.375	ng		100
26) Anthracene	16.822	178	10005	0.358	ng		100
28) Fluoranthene	18.775	202	14489	0.347	ng		98
30) Pyrene	19.142	202	15278	0.417	ng		100
32) Benzo(a)anthracene	20.920	228	12798	0.368	ng		100
33) Chrysene	20.974	228	14214	0.397	ng		100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458	ng		100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377	ng		97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494	ng	#	96
38) Benzo(k)fluoranthene	22.412	252	19565	0.502	ng		96
39) Benzo(a)pyrene	22.933	252	12458	0.382	ng	#	92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380	ng		96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419	ng		98

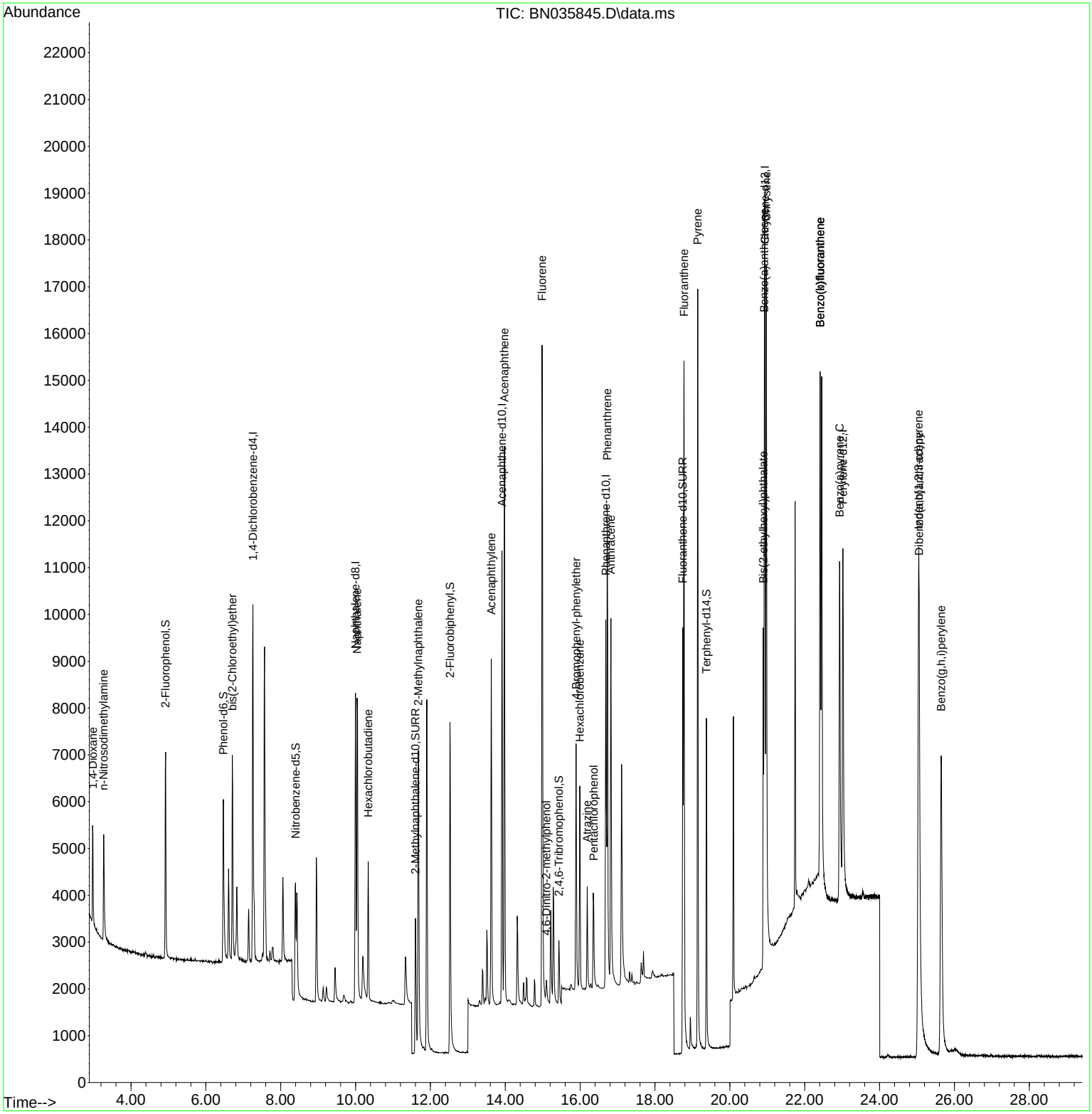
(#) = qualifier out of range (m) = manual integration (+) = signals summed

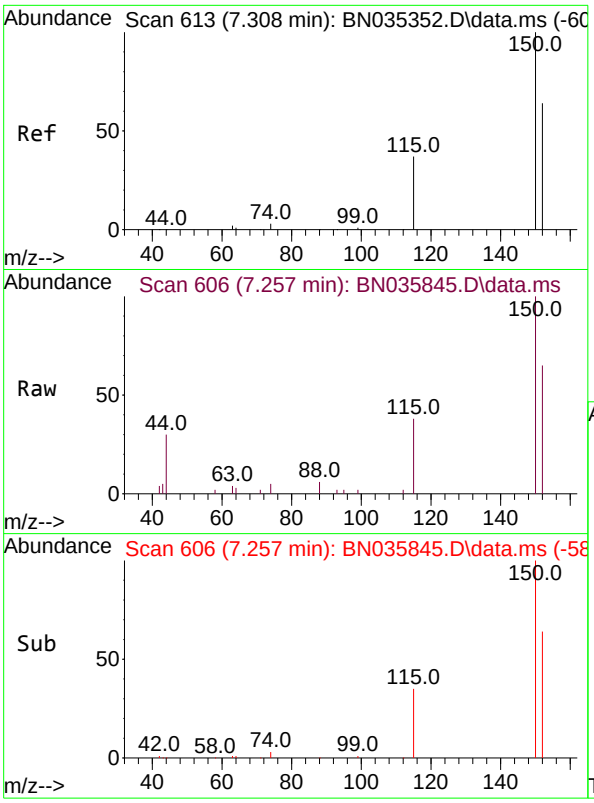
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



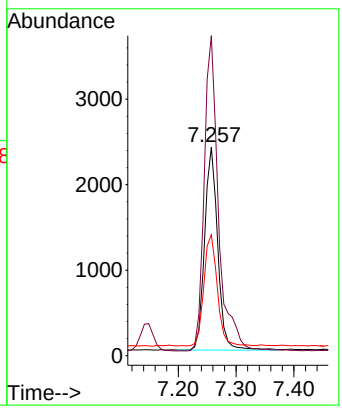


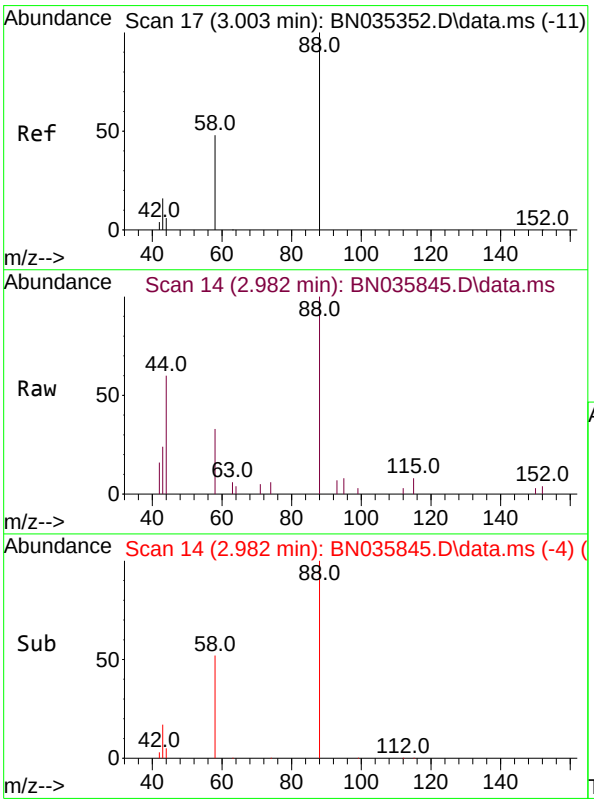
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3755

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4

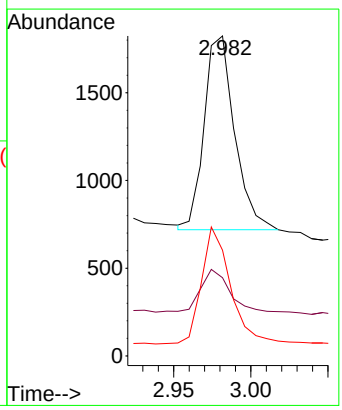


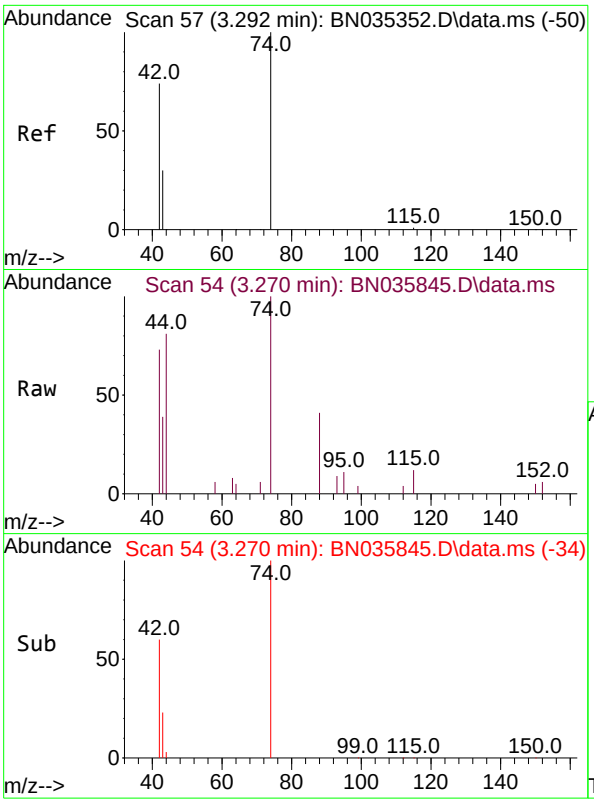


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7



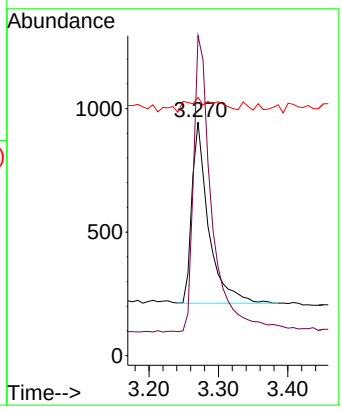


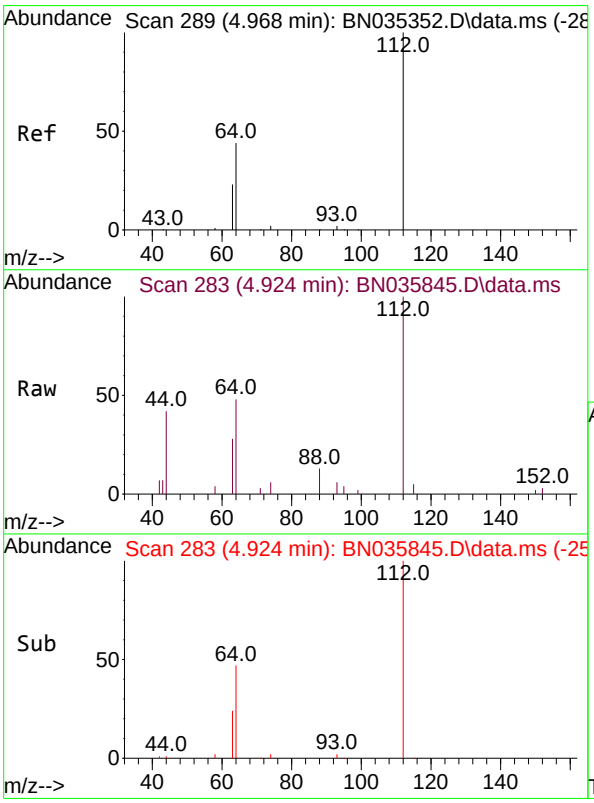
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1223

Ion	Ratio	Lower	Upper
42	100		
74	179.4	124.9	187.3
44	16.9	2.2	3.4#

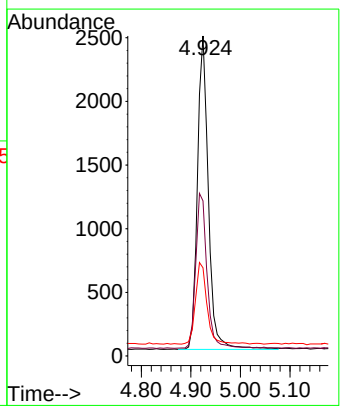


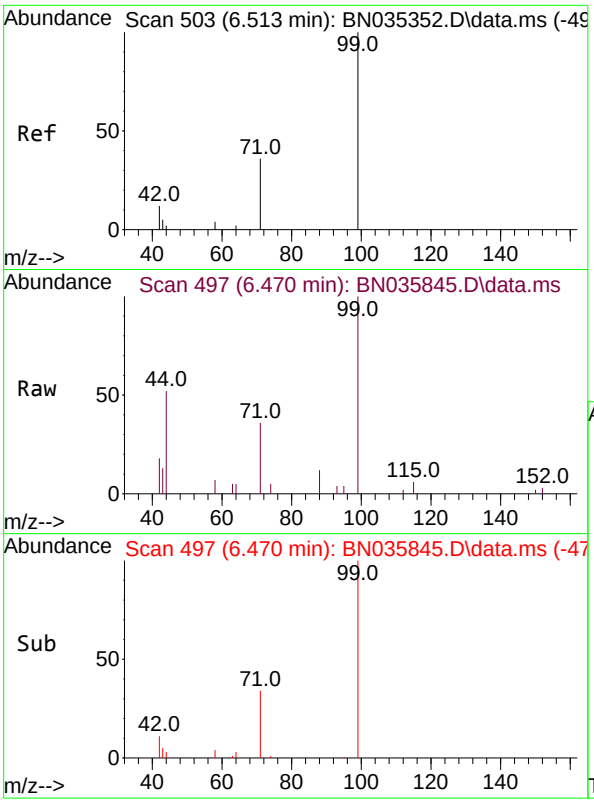


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.5	21.0	31.6



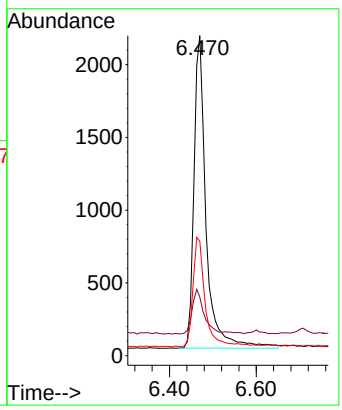


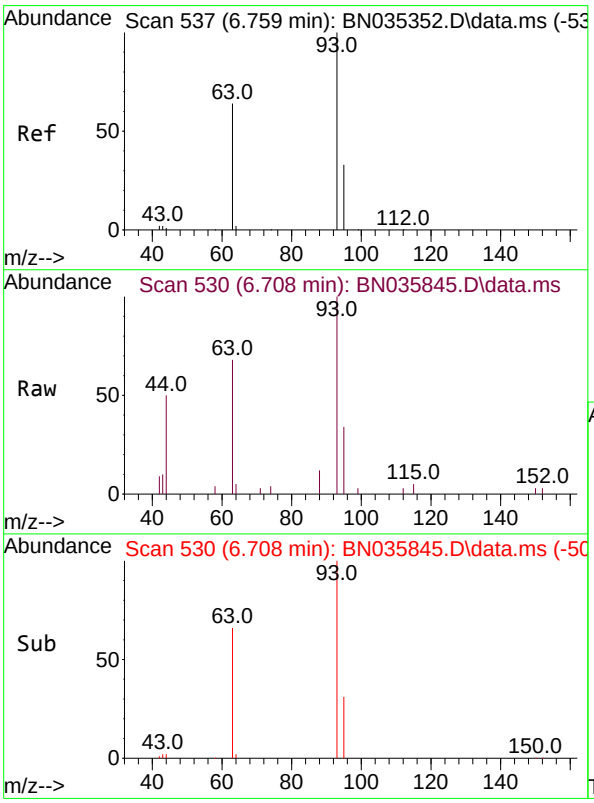
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4175

Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9

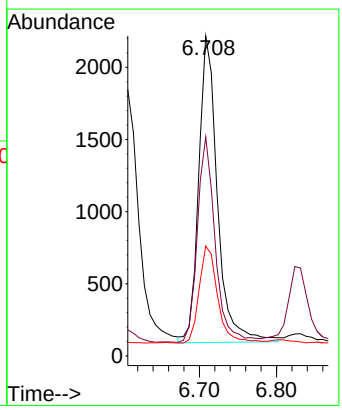


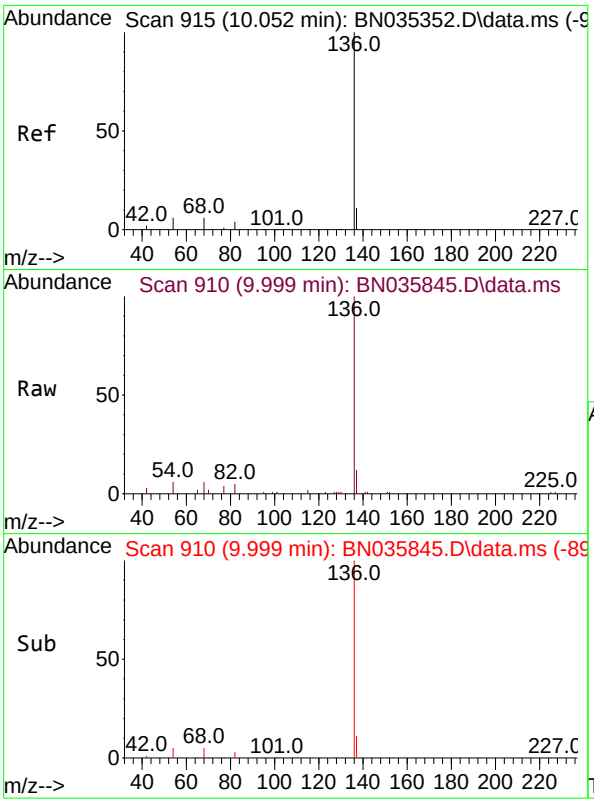


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5



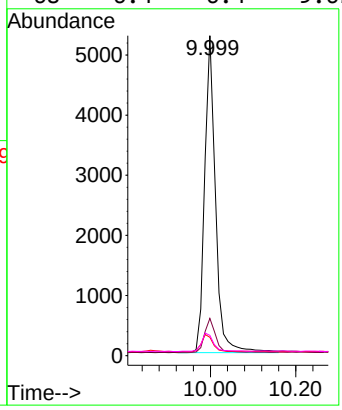


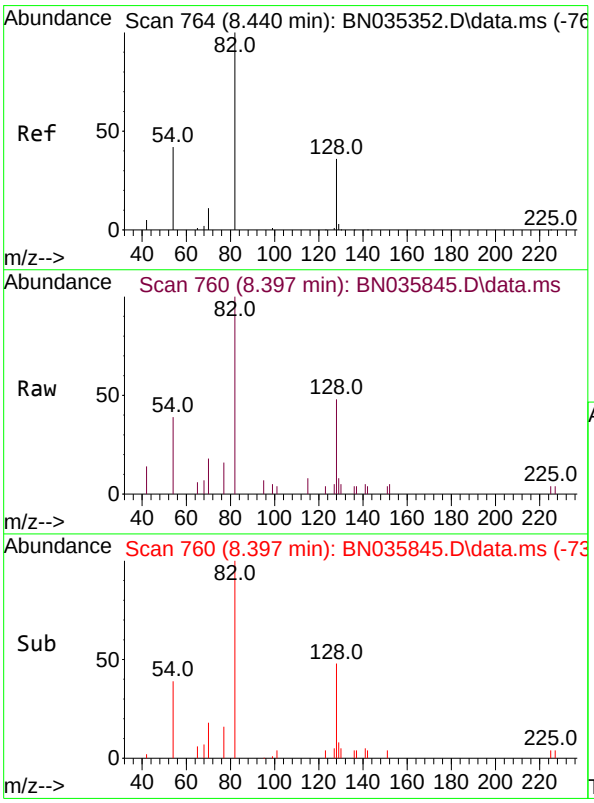
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9322

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1#
68	6.4	6.4	9.6#

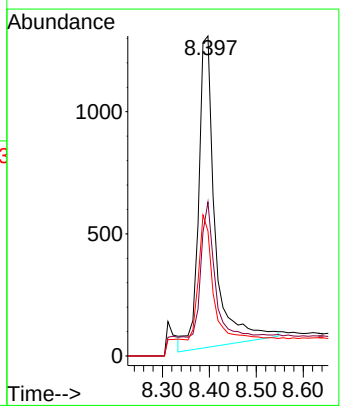


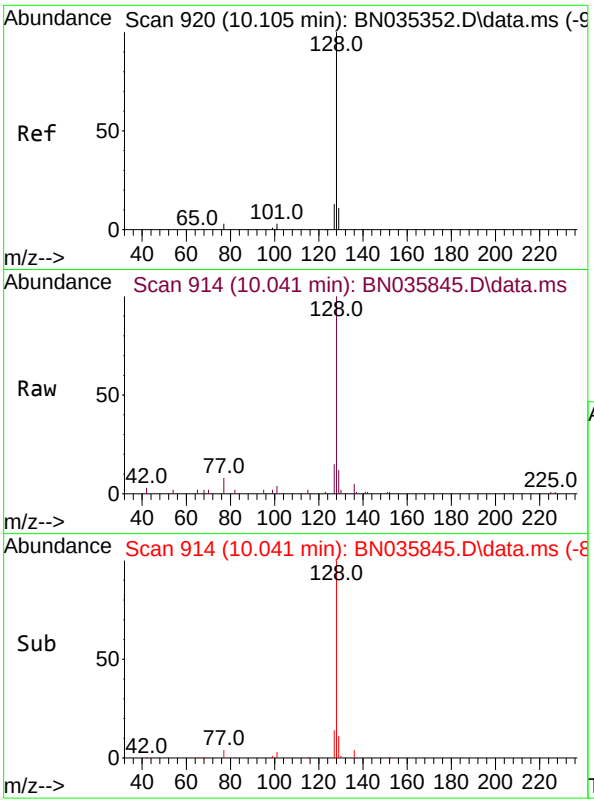


#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 3148

Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1



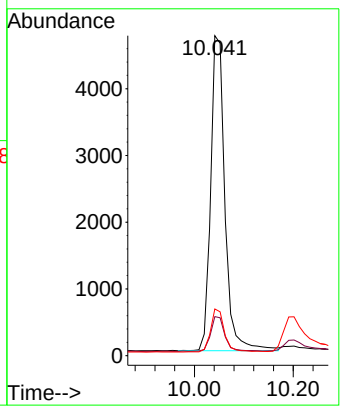


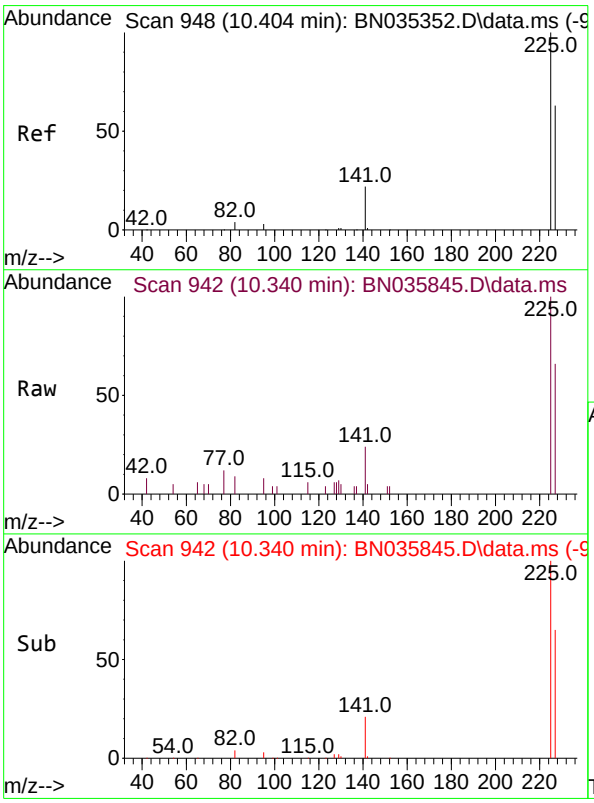
#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9440

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.4	17.2

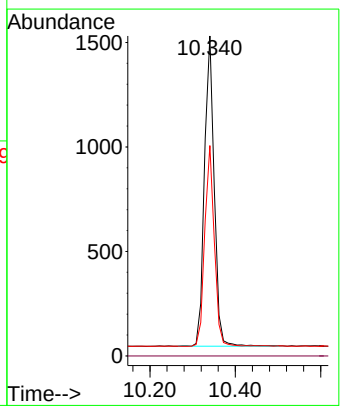


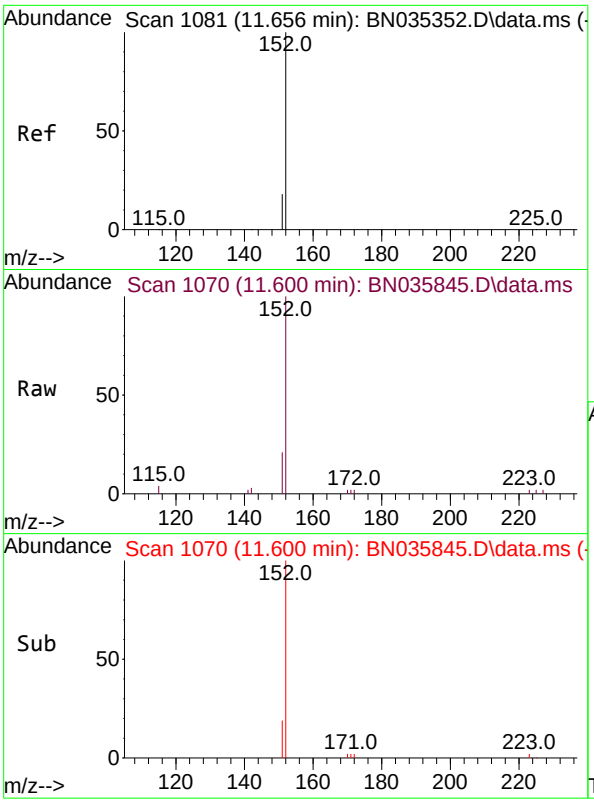


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9



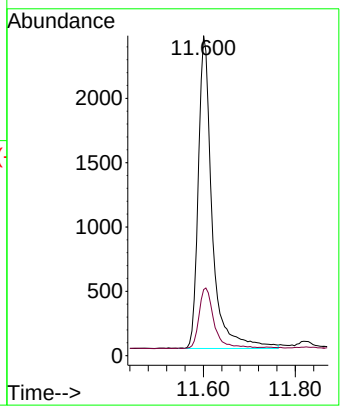


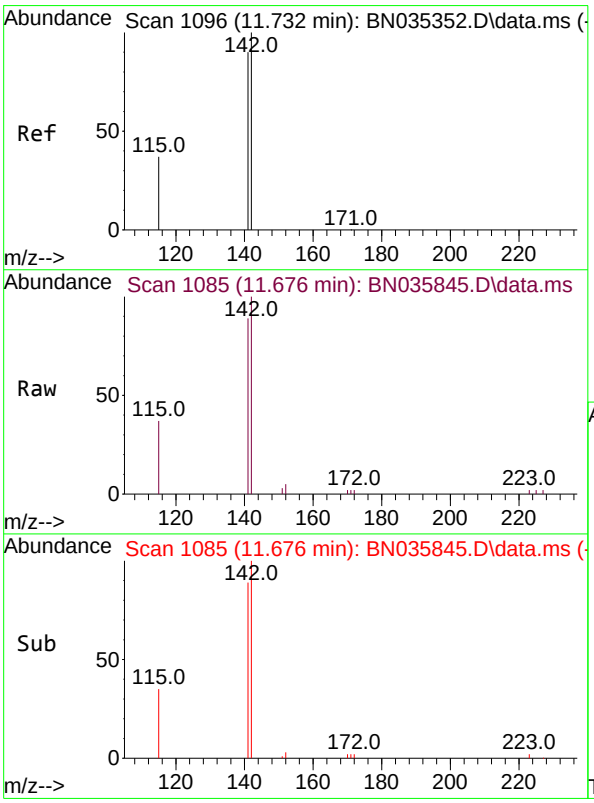
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5080

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

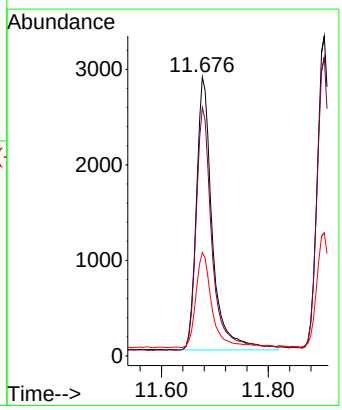


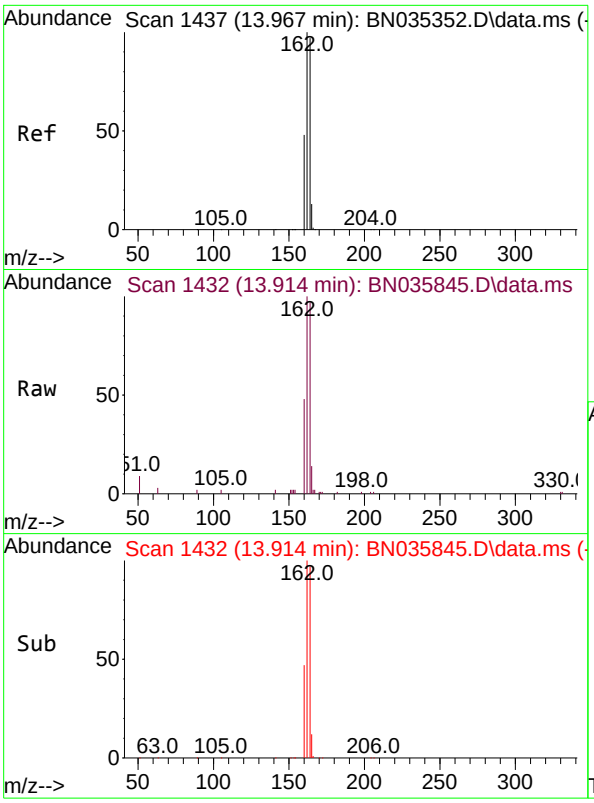


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

Ion	Ratio	Lower	Upper
142	100		
141	89.1	72.2	108.4
115	37.1	31.4	47.0



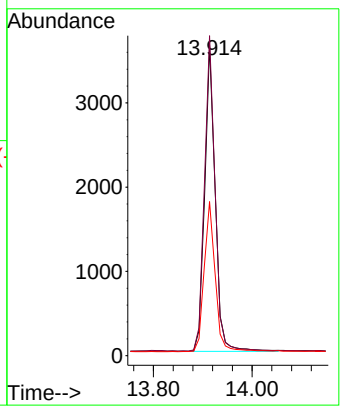


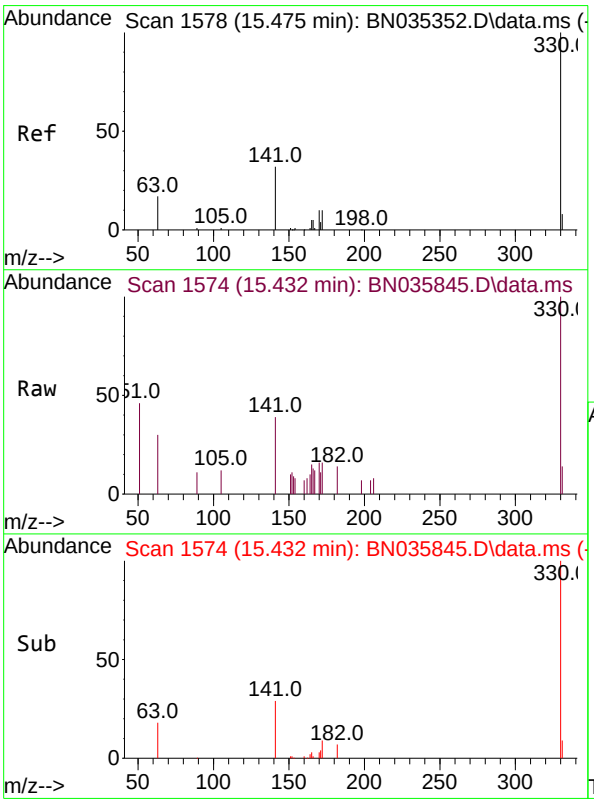
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.7	40.1	60.1

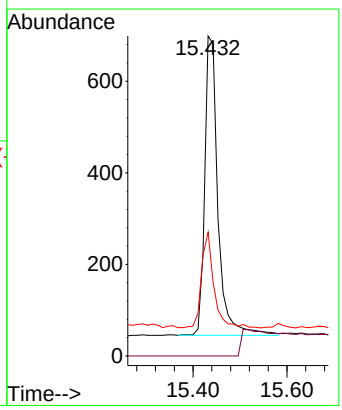


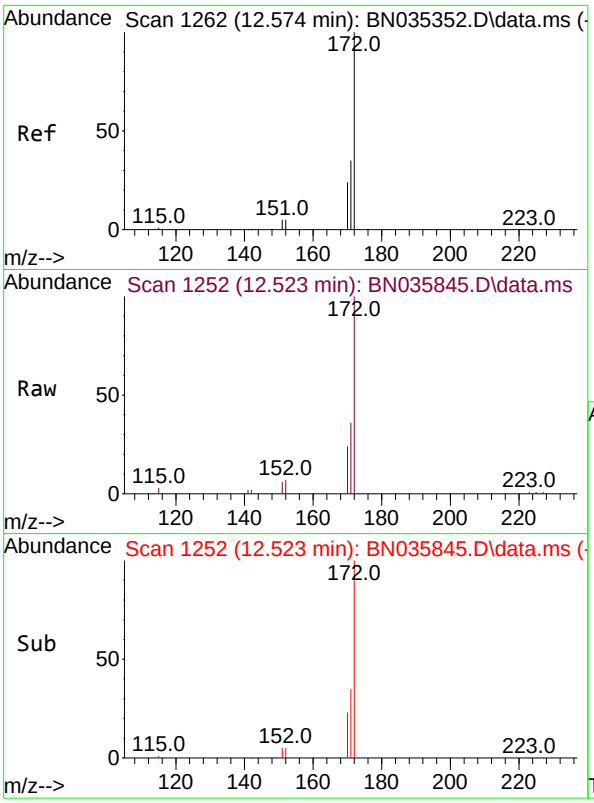


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0



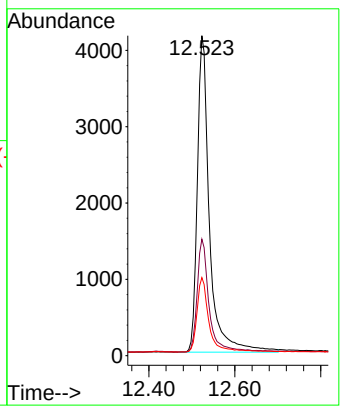


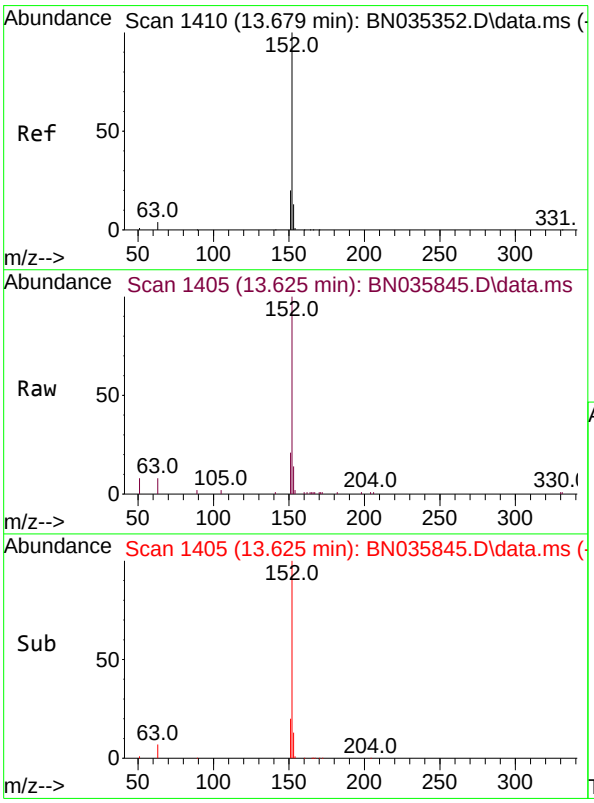
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8104

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

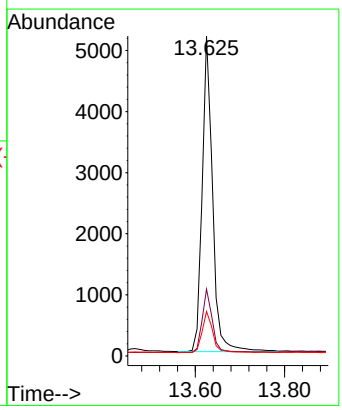


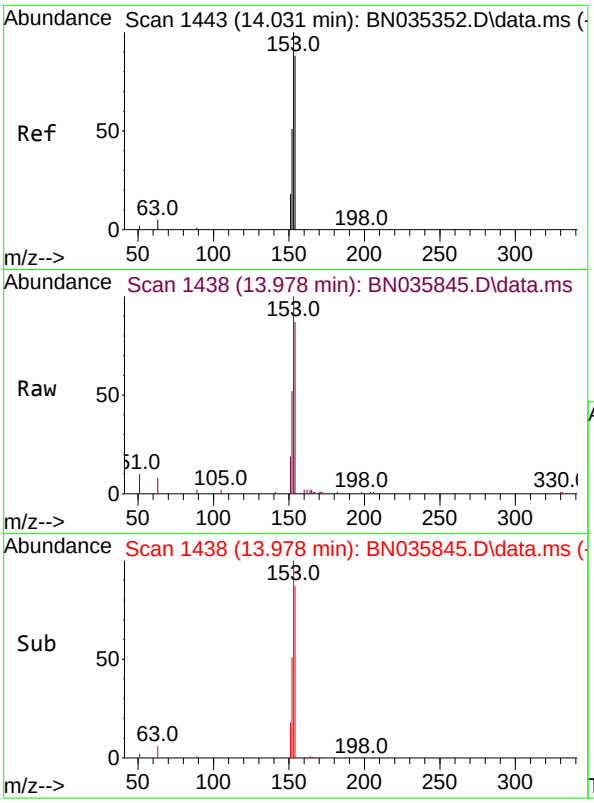


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6



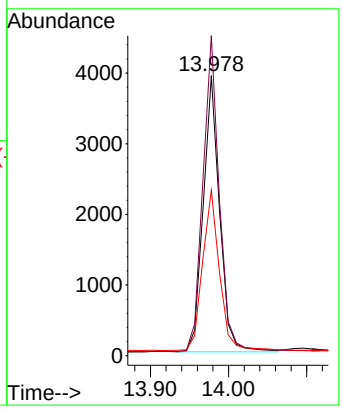


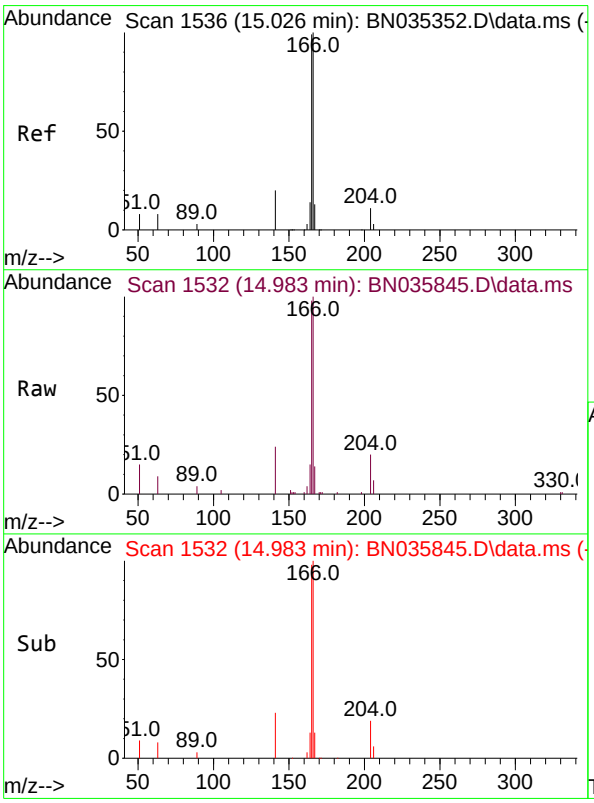
#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5695

Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	60.4	49.0	73.6

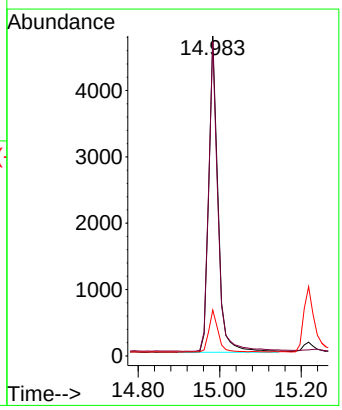


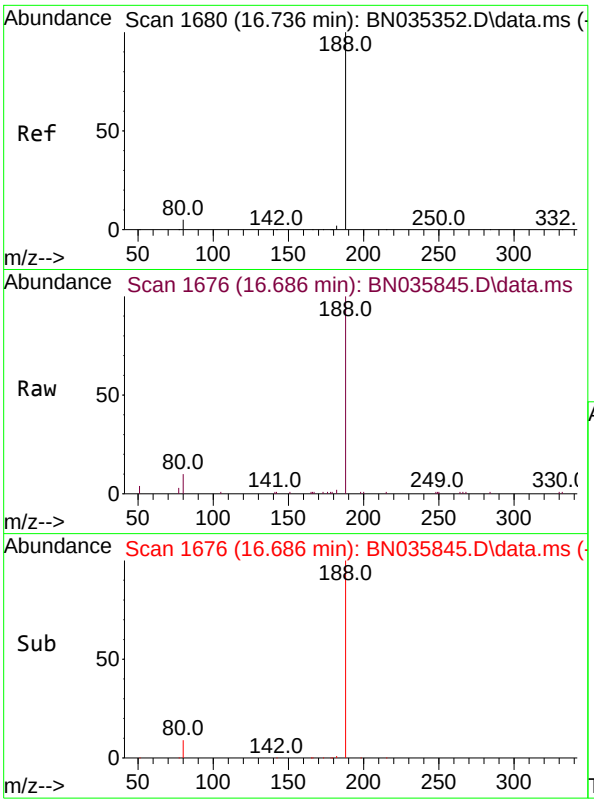


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2



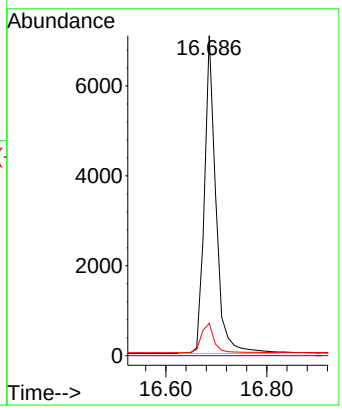


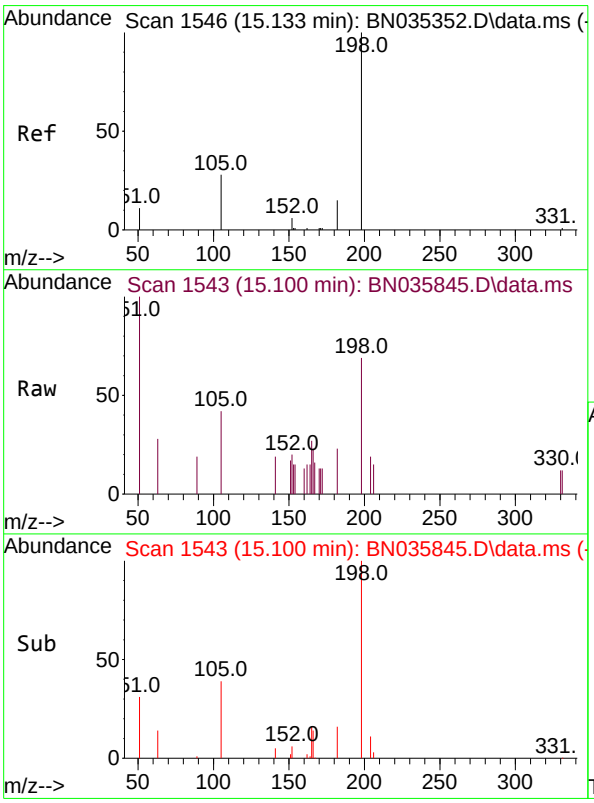
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11262

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	4.6	6.8#

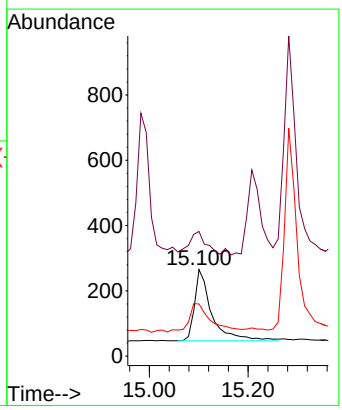


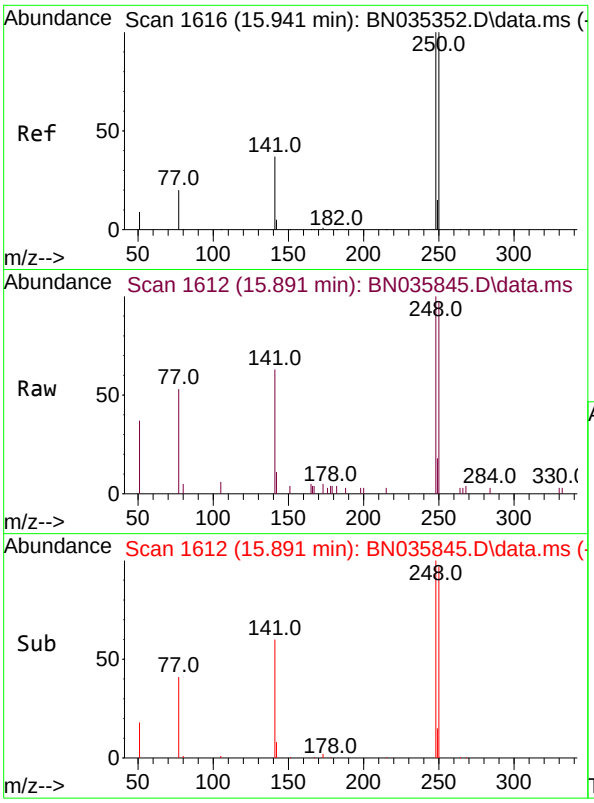


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

Ion	Ratio	Lower	Upper
198	100		
51	144.2	46.5	69.7#
105	60.4	45.3	67.9



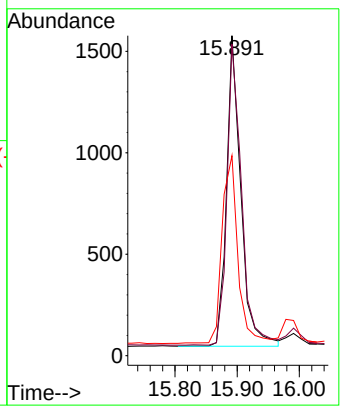


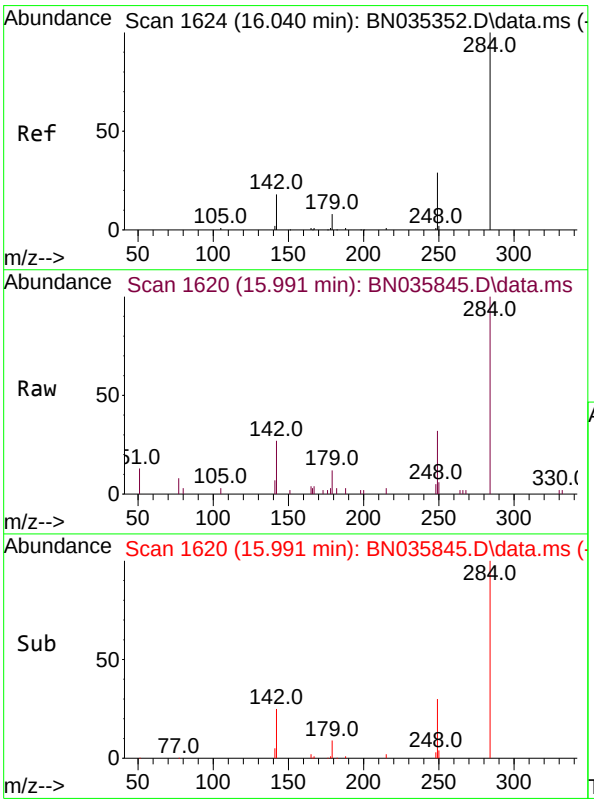
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2443

Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3#

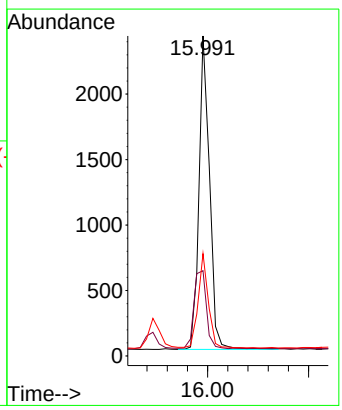


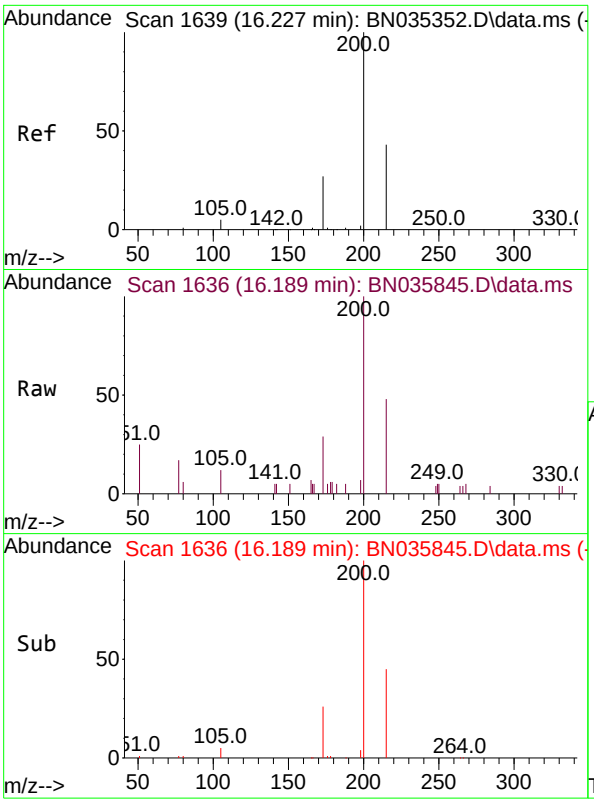


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8



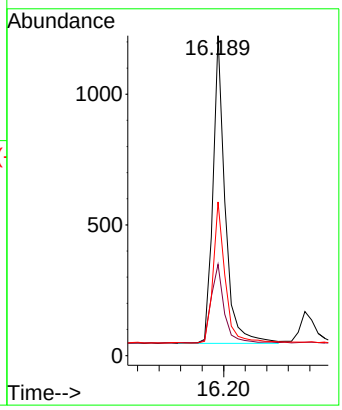


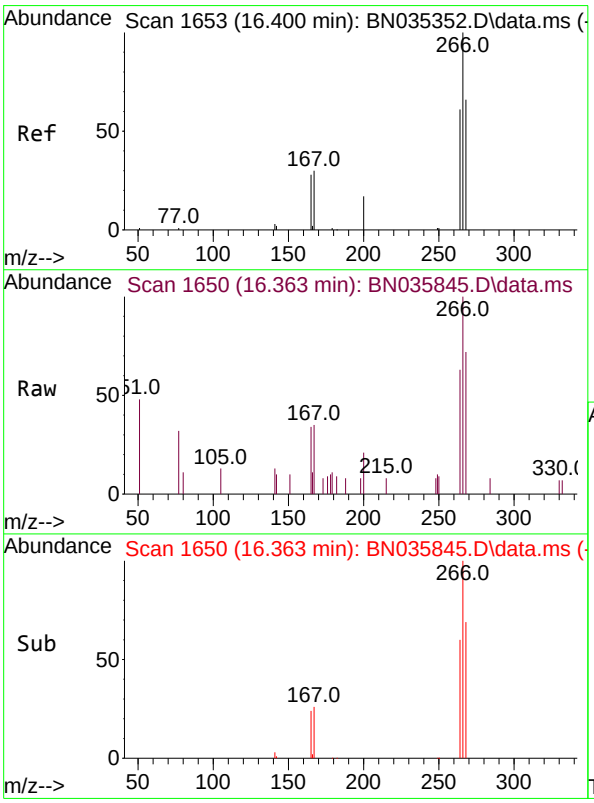
#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1843

Ion	Ratio	Lower	Upper
200	100		
173	28.5	24.1	36.1
215	48.0	36.9	55.3

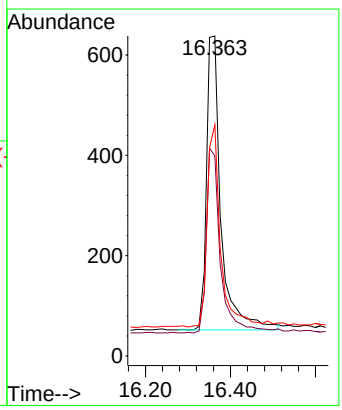


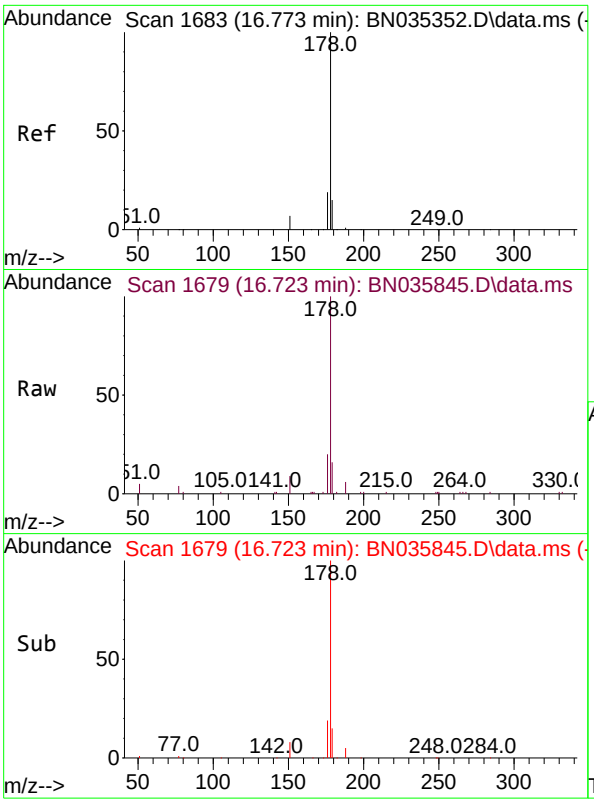


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	63.8	43.3	64.9



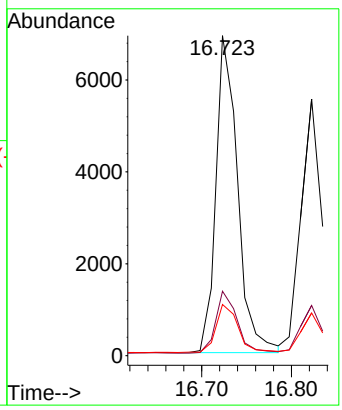


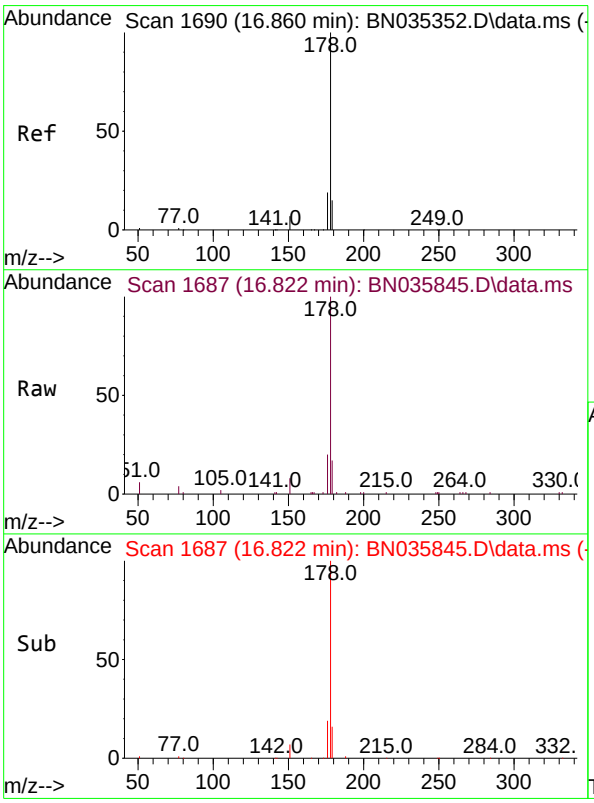
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11602

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5

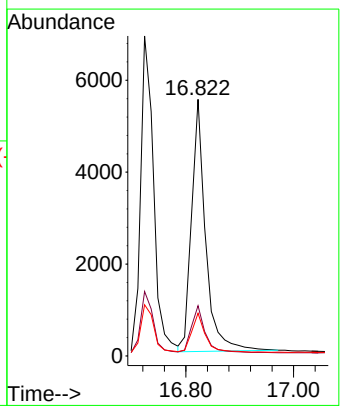


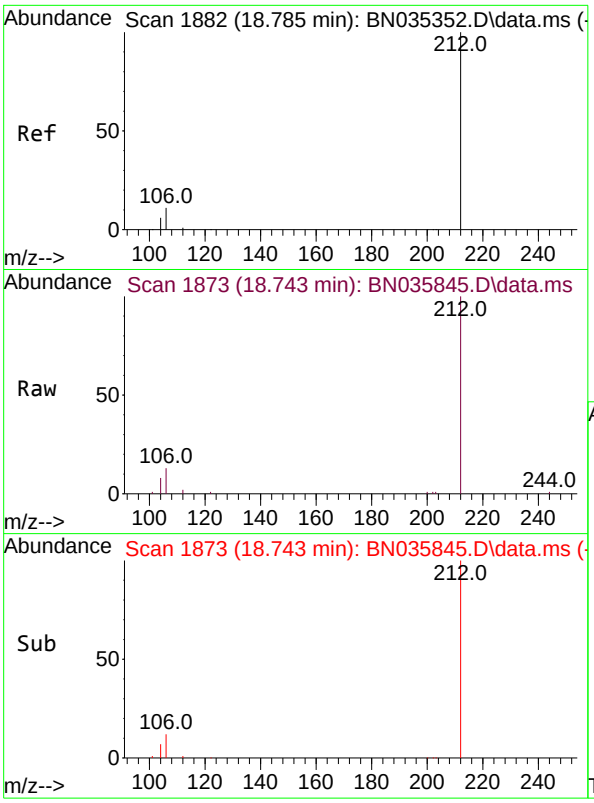


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



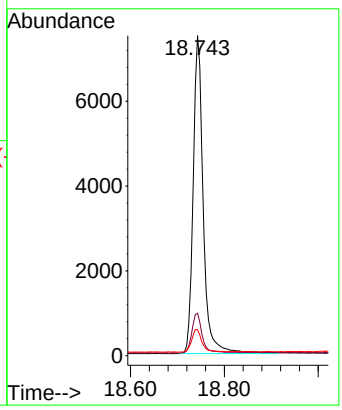


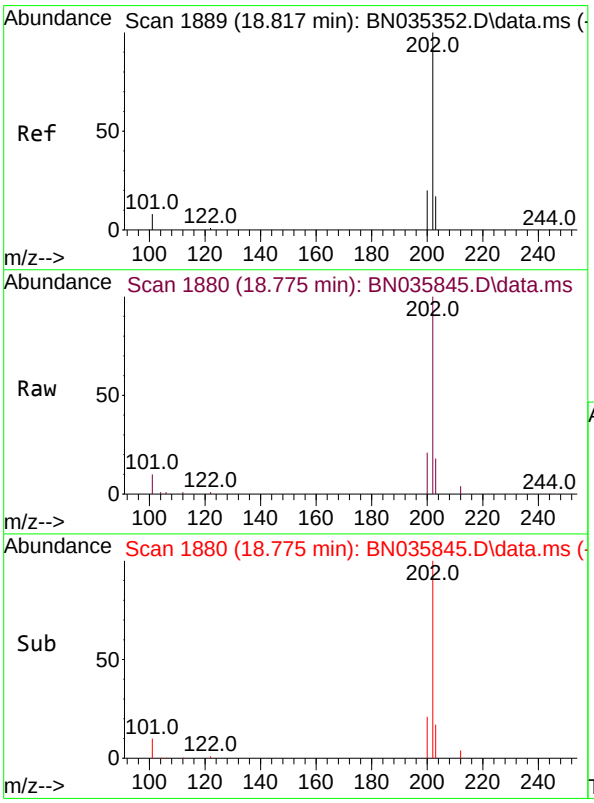
#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11161

Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.4	5.3	7.9

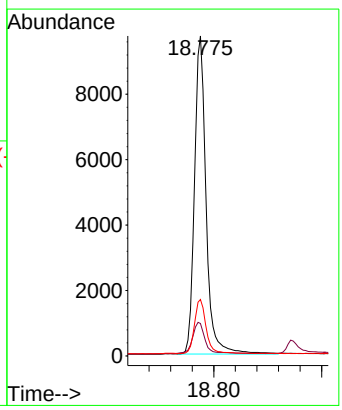


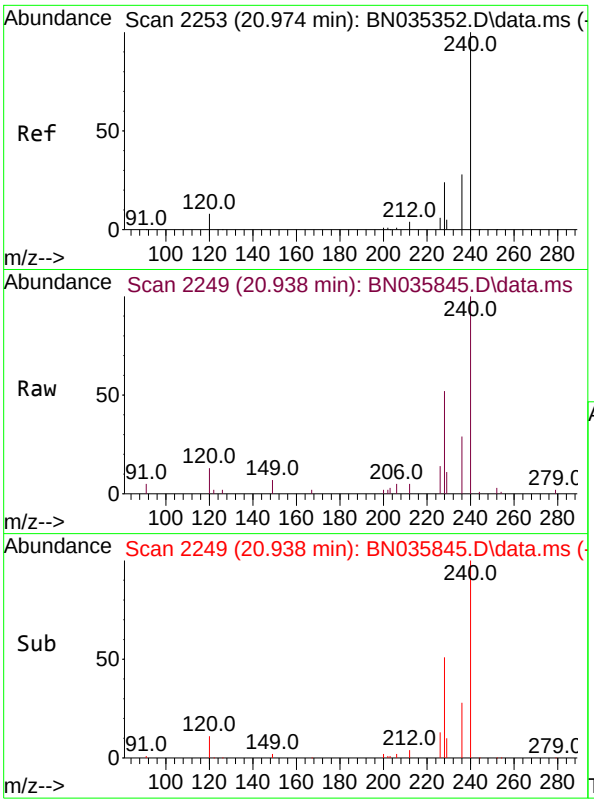


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.4	11.0
203	17.0	13.7	20.5



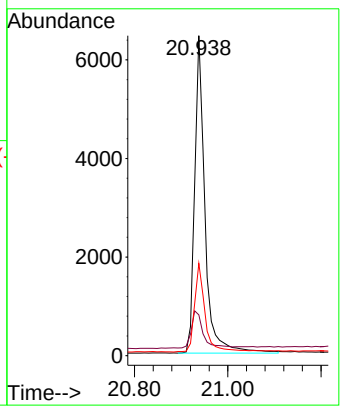


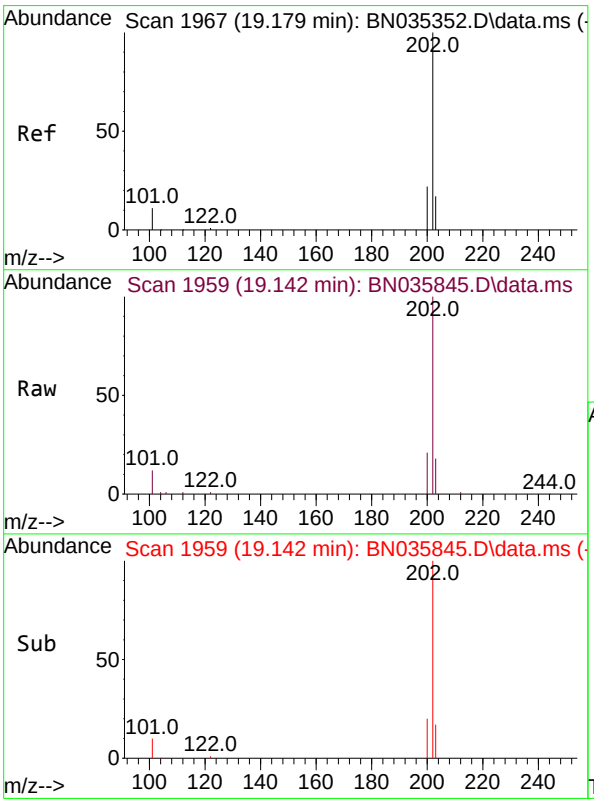
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9932

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	28.9	22.9	34.3

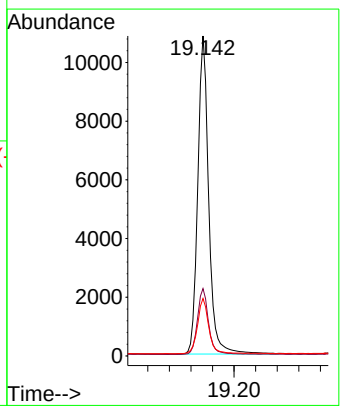


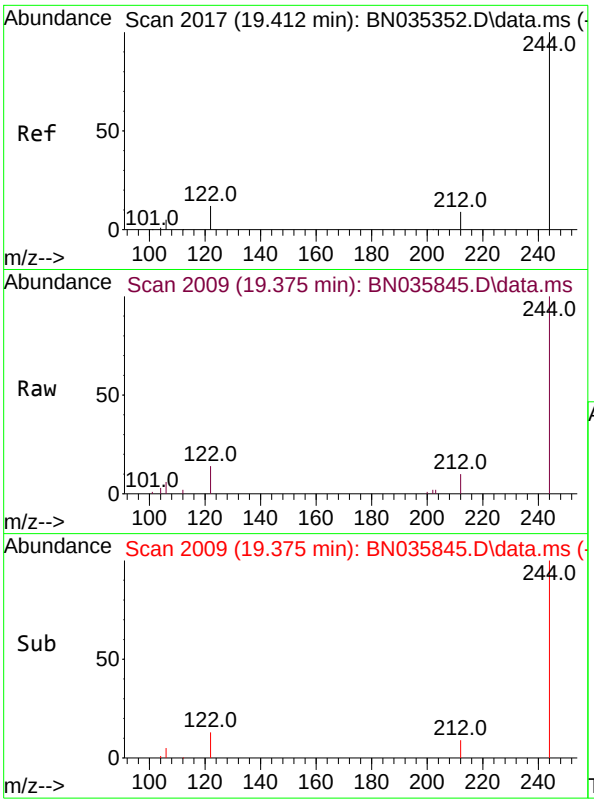


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5



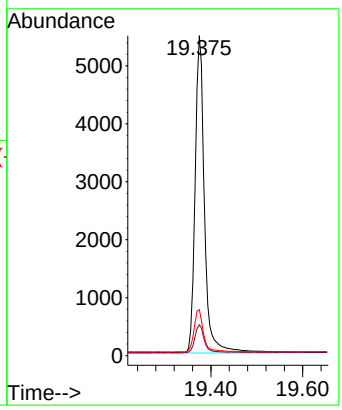


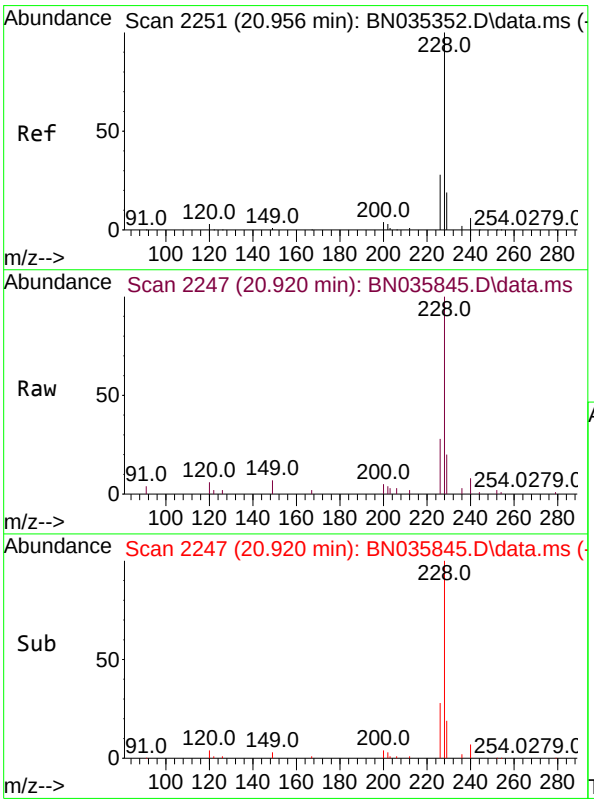
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7783

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

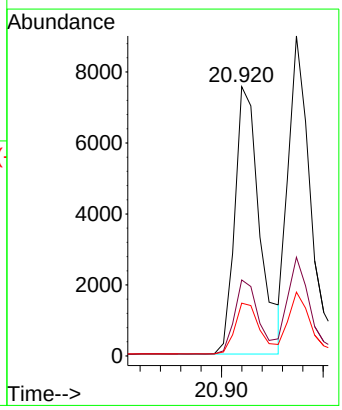


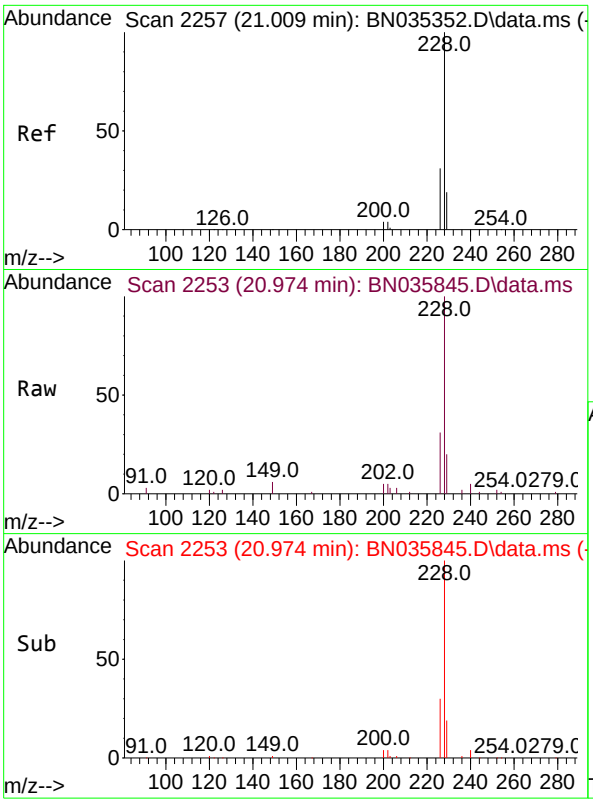


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8



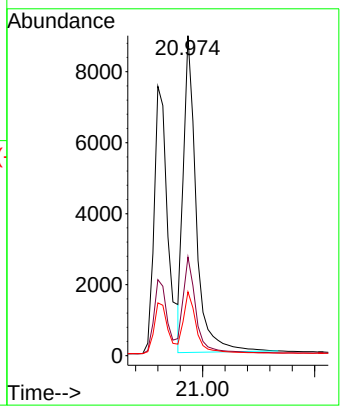


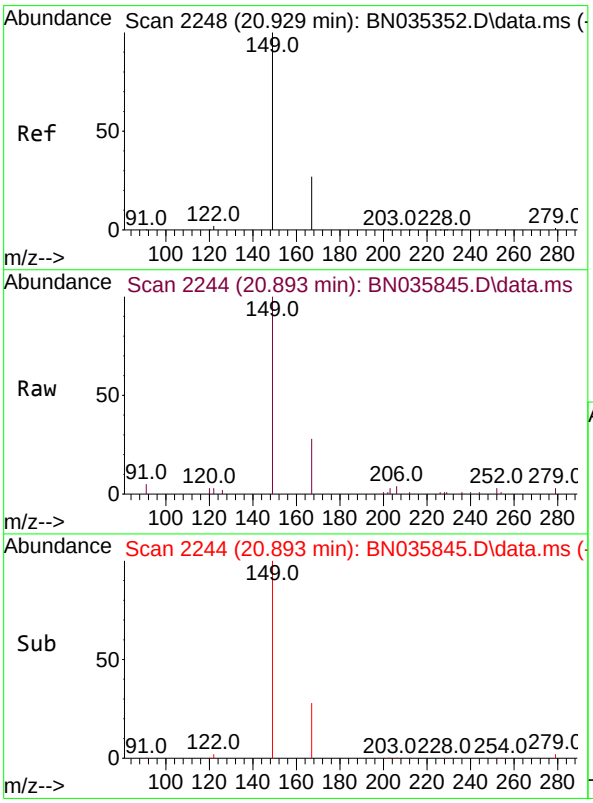
#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 14214

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9

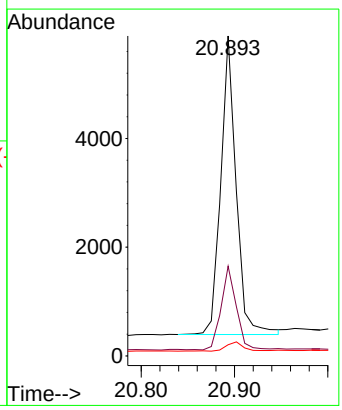


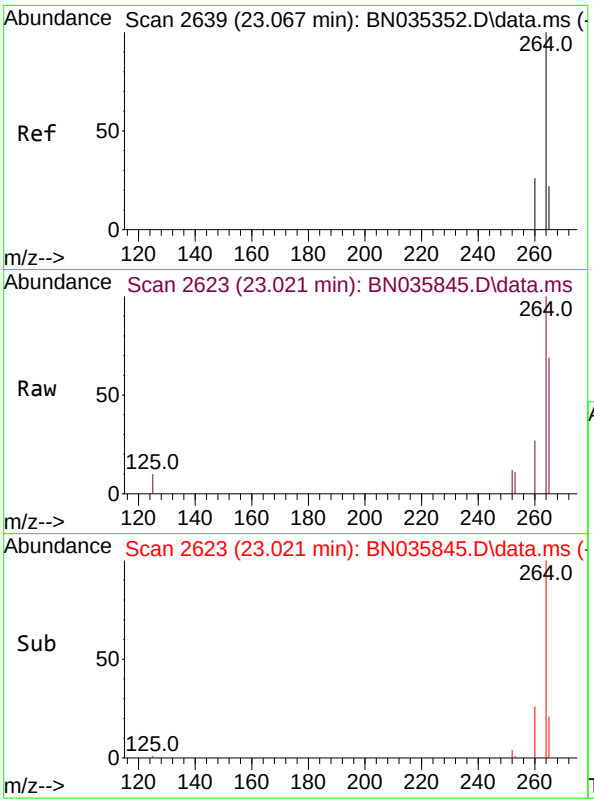


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1



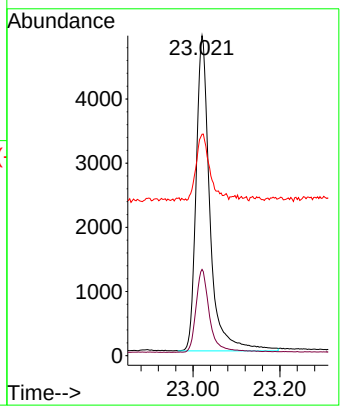


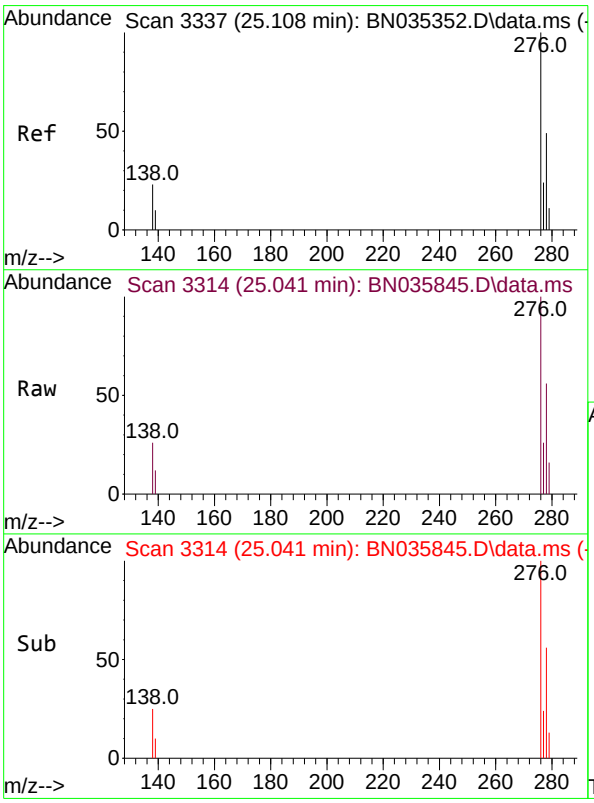
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 10817

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	69.2	40.2	60.4#

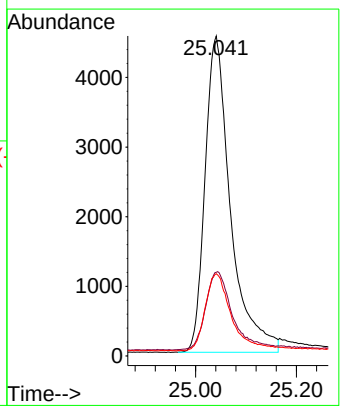


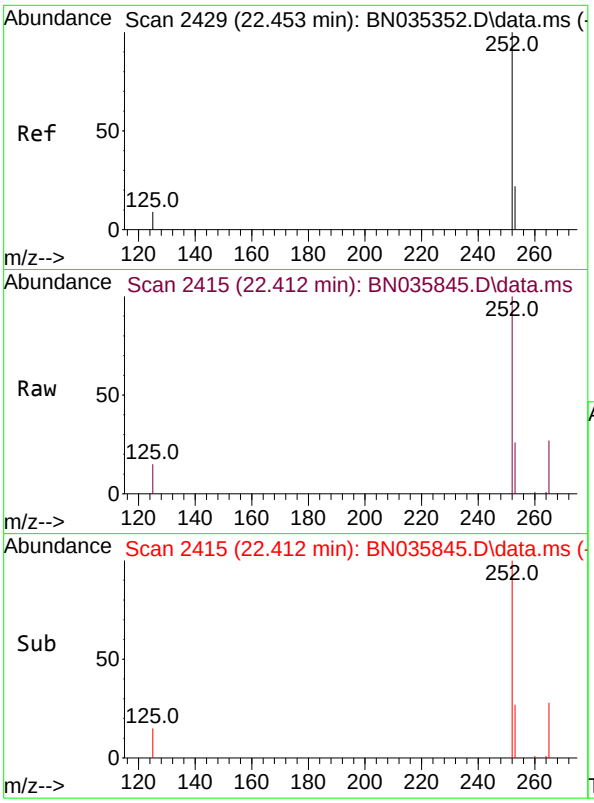


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

Ion	Ratio	Lower	Upper
276	100		
138	26.4	19.4	29.0
277	25.7	19.8	29.6



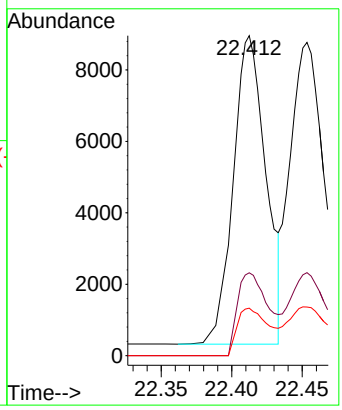


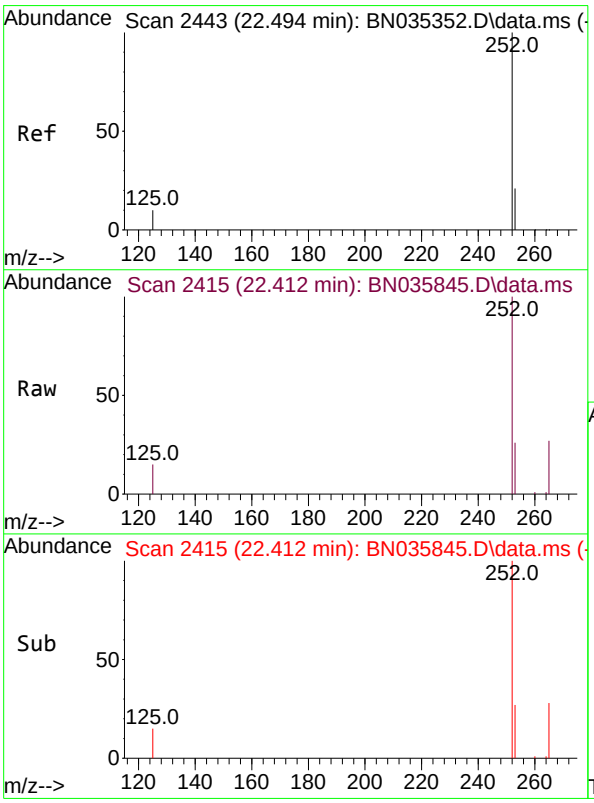
#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19565

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4#

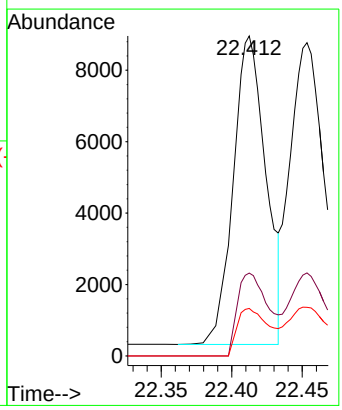


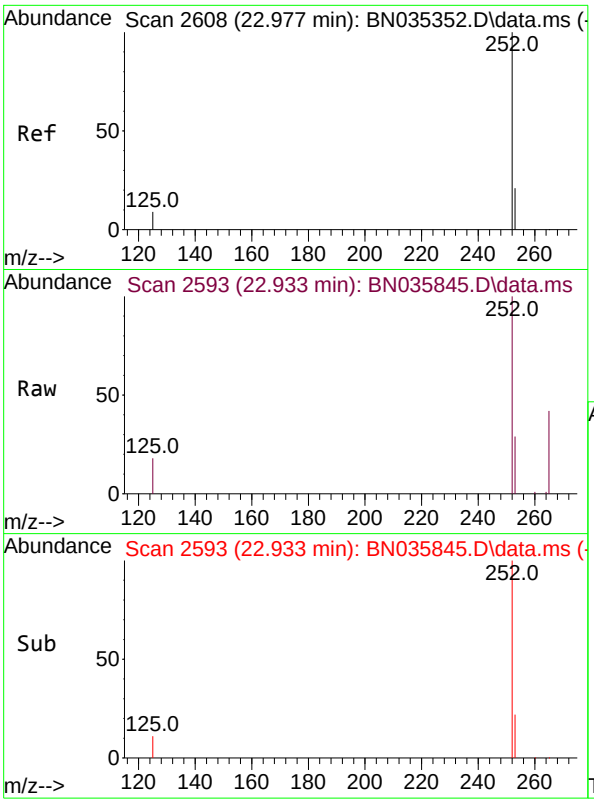


#38
Benzo(k)fluoranthene
Concen: 0.502 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 19565

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	14.9	10.2	15.4



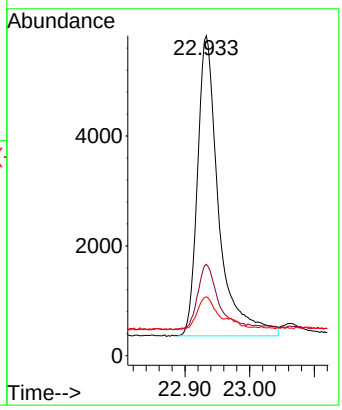


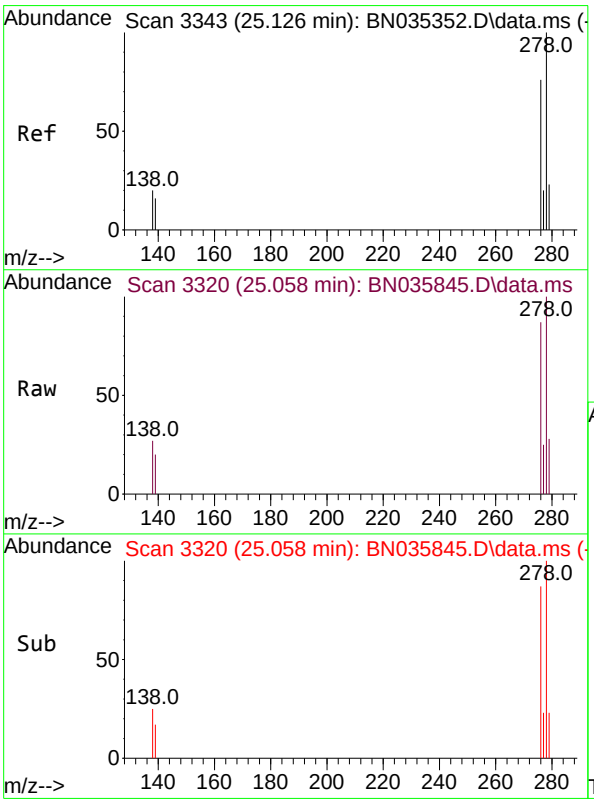
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 12458

Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3#

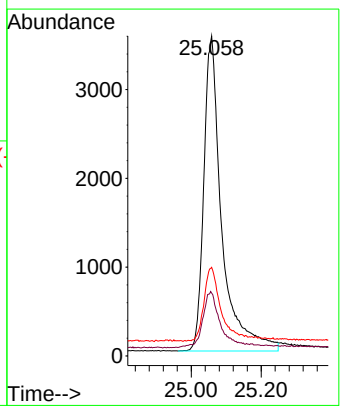


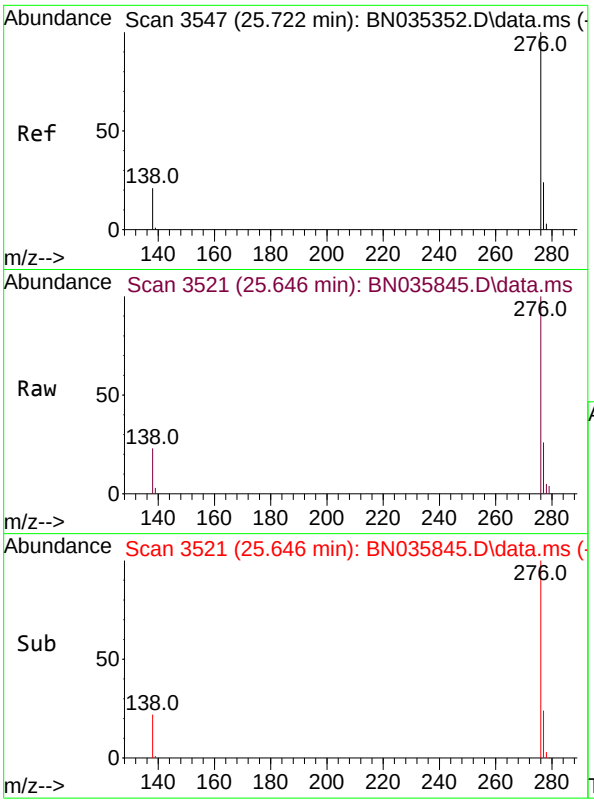


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7



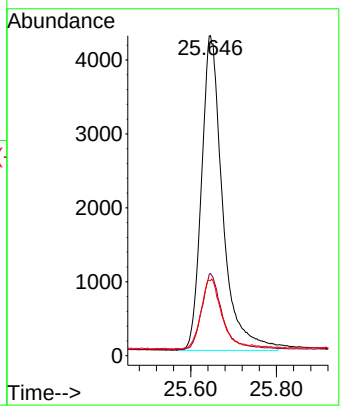


#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 14614

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	23.5	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035856.D
Acq On : 26 Dec 2024 16:42
Operator : RC/JU
Sample : P5281-07DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Quant Time: Dec 27 00:41:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3270	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7531	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4933	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10717	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	7941	0.400	ng	0.00
35) Perylene-d12	23.027	264	7194	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	633	0.077	ng	-0.01
5) Phenol-d6	6.477	99	378	0.038	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2105	0.458	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	2517	0.214	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	521	0.149	ng	-0.01
15) 2-Fluorobiphenyl	12.529	172	3977	0.213	ng	-0.02
27) Fluoranthene-d10	18.748	212	8393	0.276	ng	-0.01
31) Terphenyl-d14	19.375	244	6181	0.395	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.975	88	11206	3.585	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	1034	0.094	ng	# 98

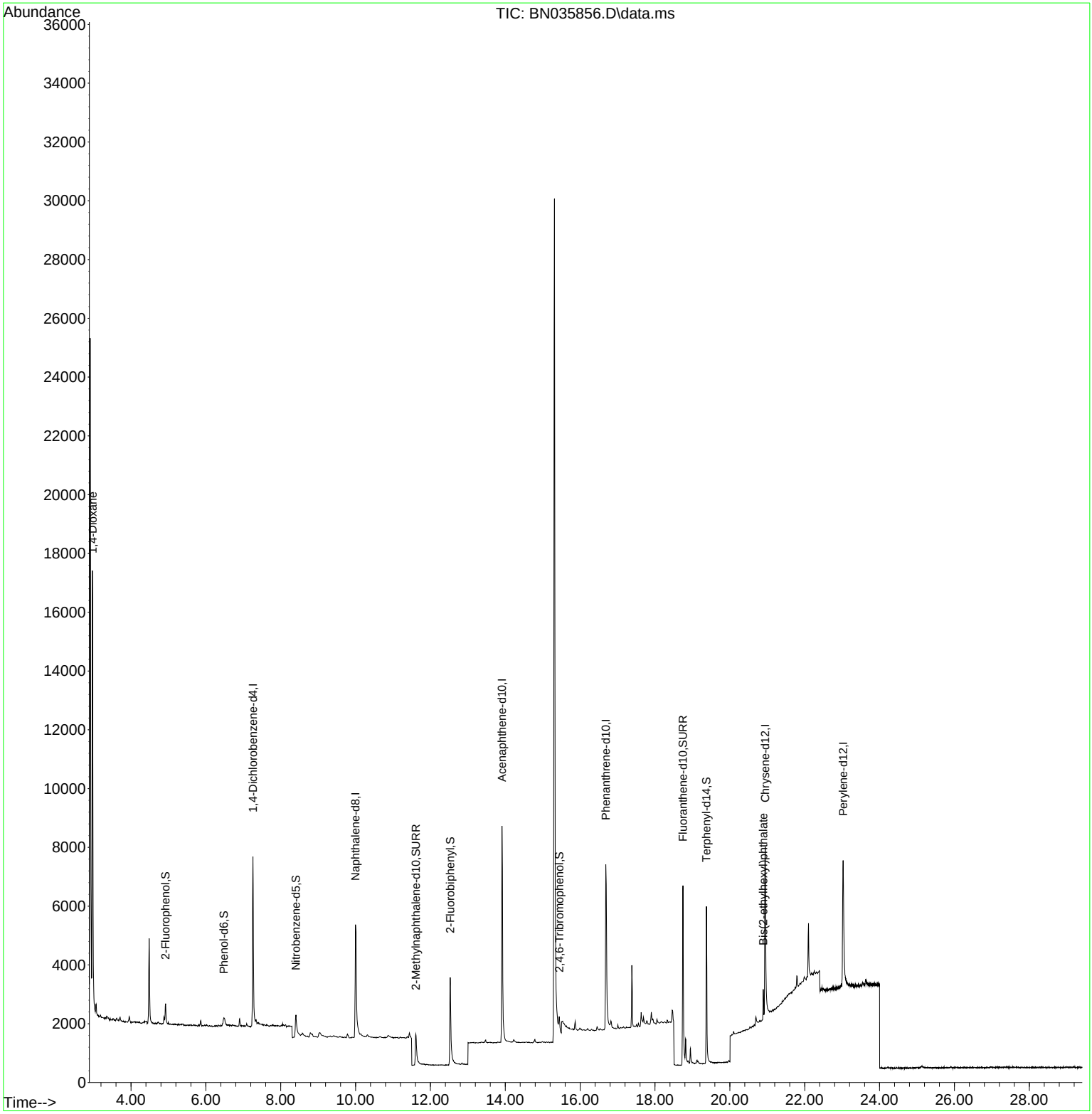
(#) = qualifier out of range (m) = manual integration (+) = signals summed

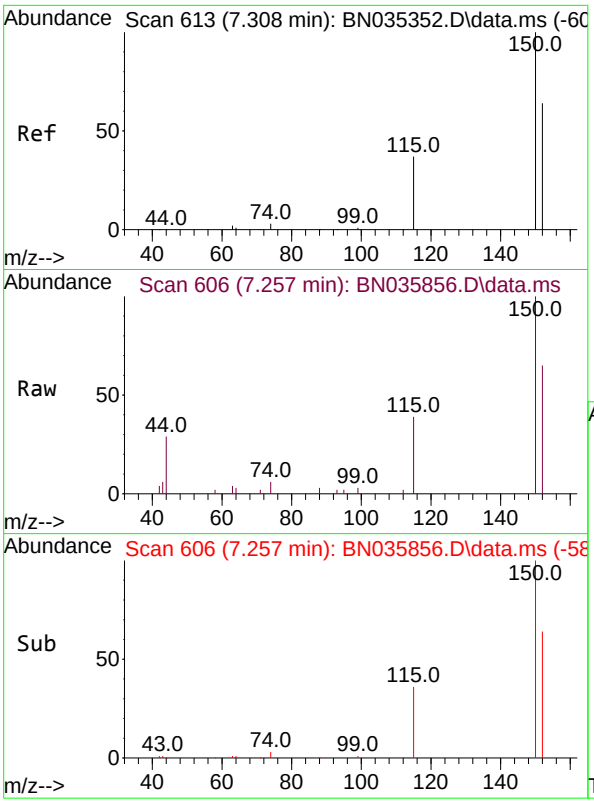
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035856.D
Acq On : 26 Dec 2024 16:42
Operator : RC/JU
Sample : P5281-07DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Quant Time: Dec 27 00:41:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



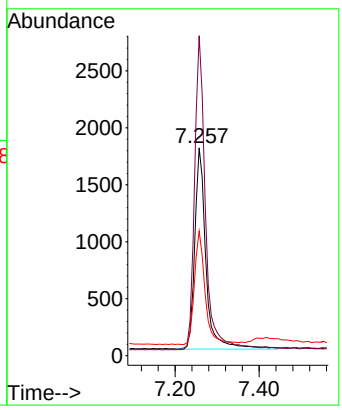


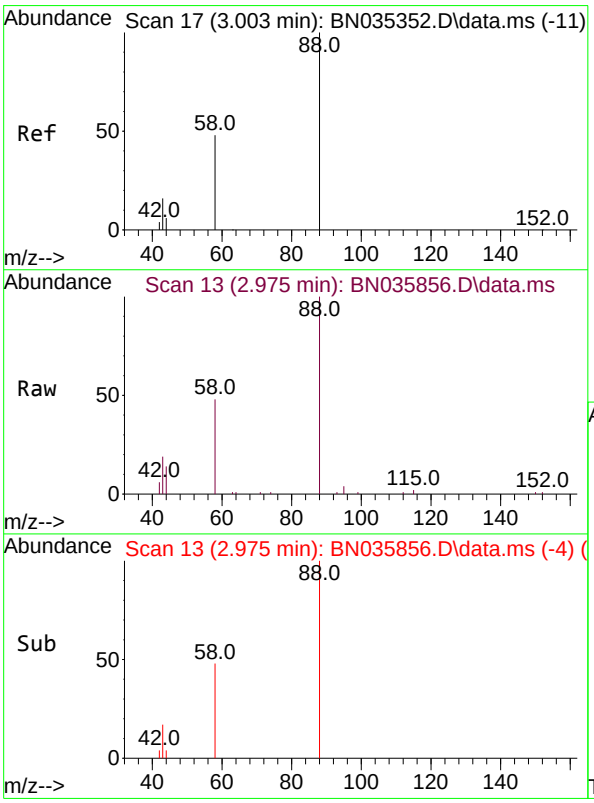
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:152 Resp: 3270

Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	60.0	49.6	74.4

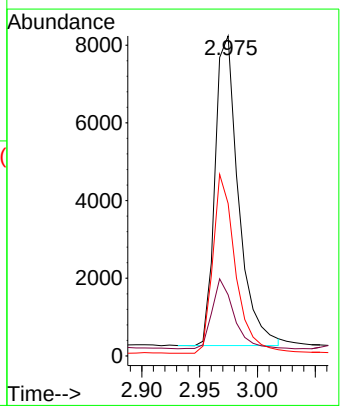


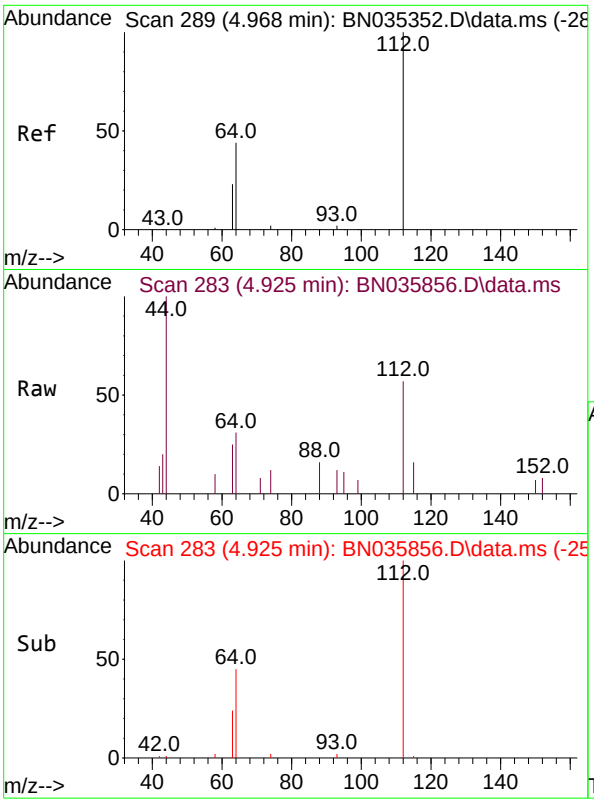


#2
1,4-Dioxane
Concen: 3.585 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion: 88 Resp: 11206

Ion	Ratio	Lower	Upper
88	100		
43	21.1	17.2	25.8
58	55.4	44.5	66.7



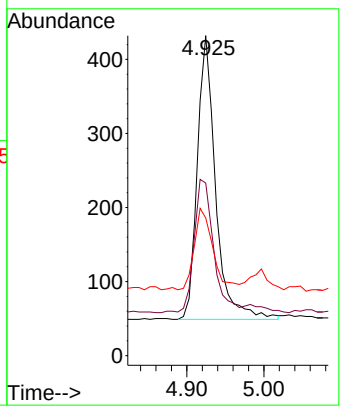


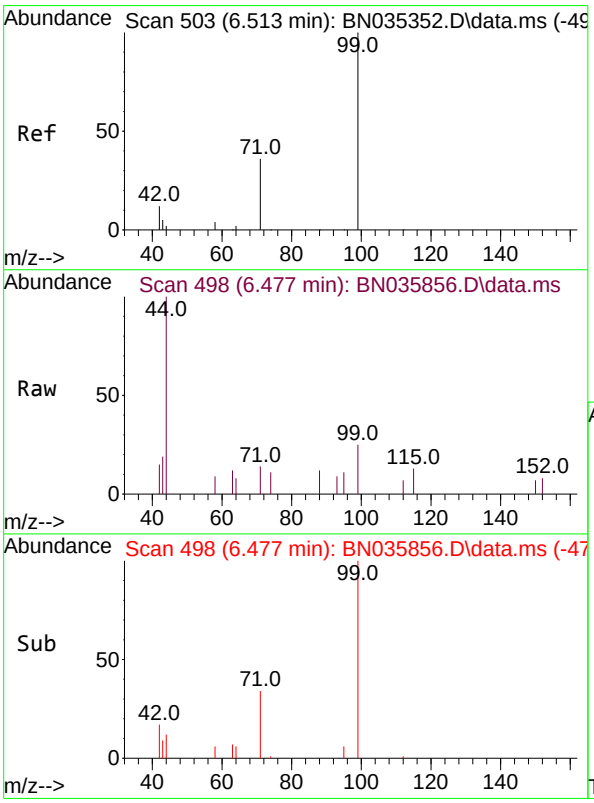
#4
2-Fluorophenol
Concen: 0.077 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:112 Resp: 633

Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	28.4	21.0	31.6

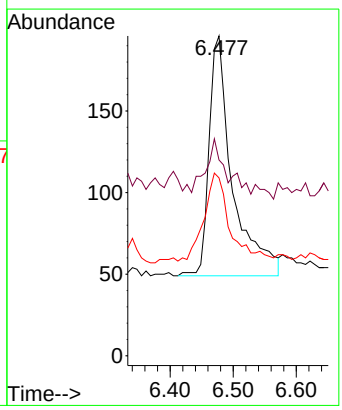


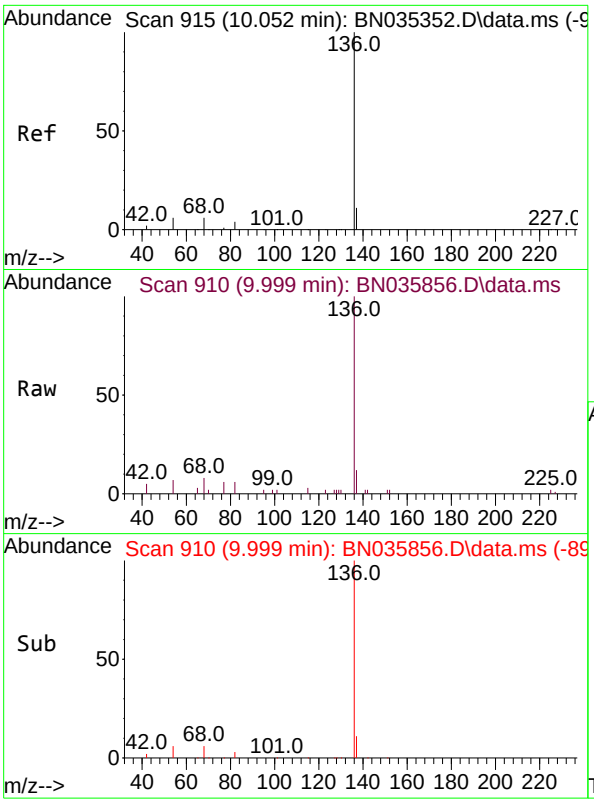


#5
Phenol-d6
Concen: 0.038 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion: 99 Resp: 378

Ion	Ratio	Lower	Upper
99	100		
42	19.6	11.4	17.2#
71	41.5	29.3	43.9



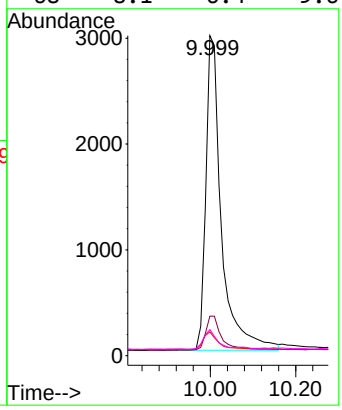


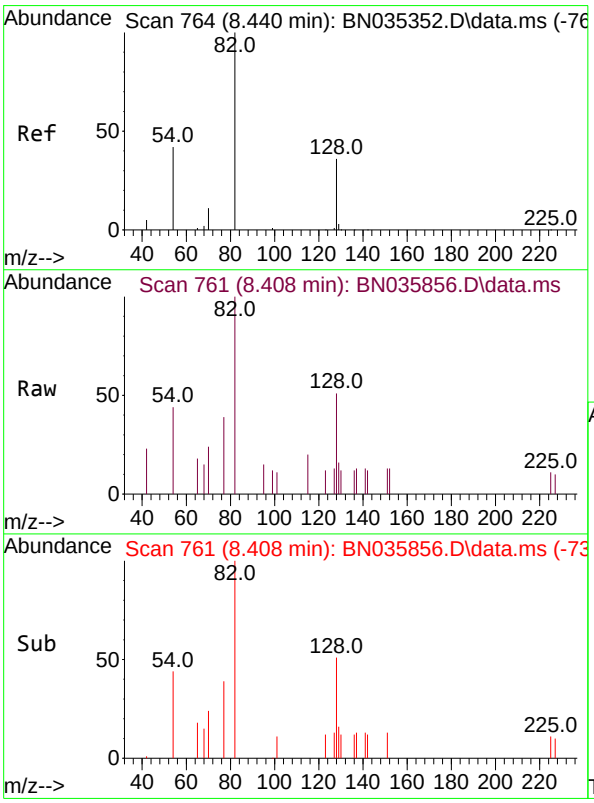
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:136 Resp: 7531

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.4	6.1	9.1
68	8.1	6.4	9.6

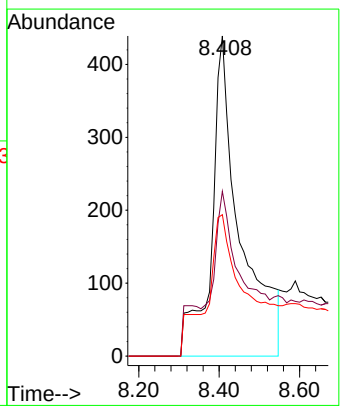


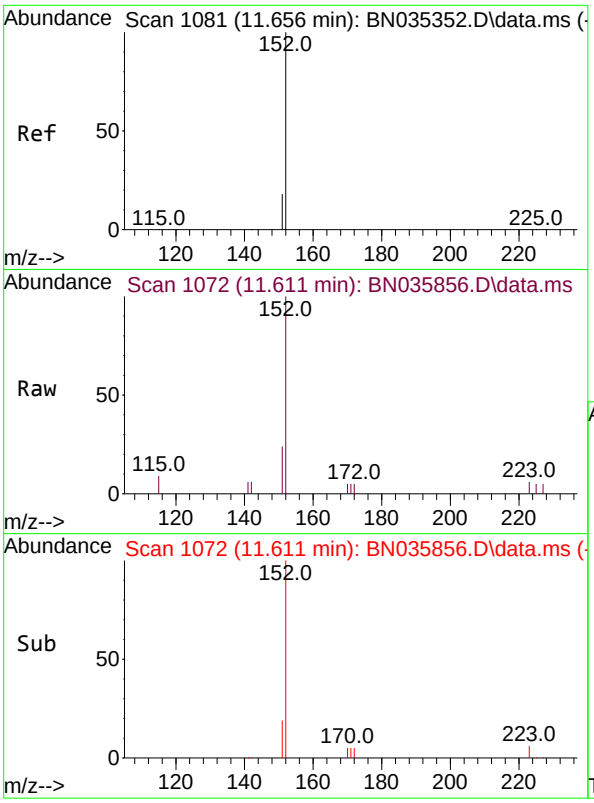


#8
Nitrobenzene-d5
Concen: 0.458 ng
RT: 8.408 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion: 82 Resp: 2105

Ion	Ratio	Lower	Upper
82	100		
128	51.5	33.4	50.0#
54	44.2	36.7	55.1



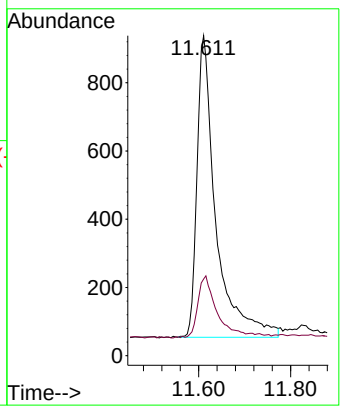


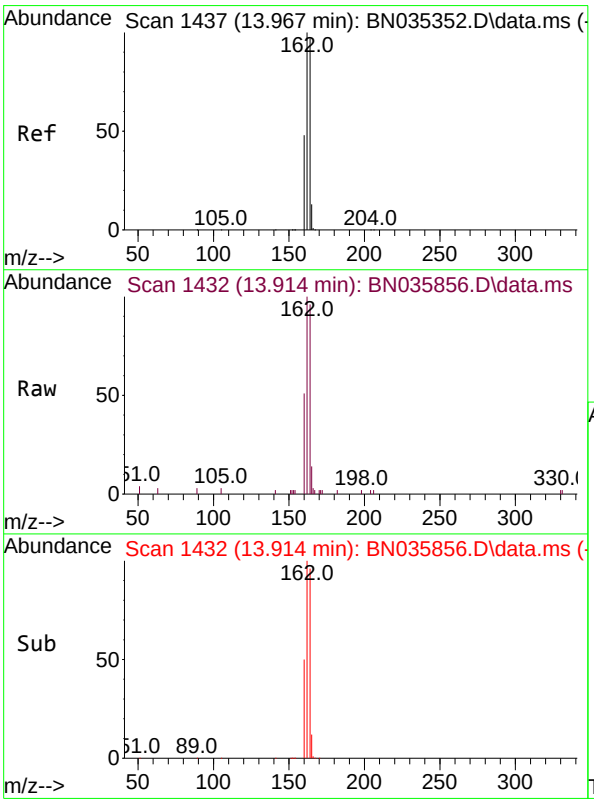
#11
2-Methylnaphthalene-d10
Concen: 0.214 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:152 Resp: 2517

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	25.0

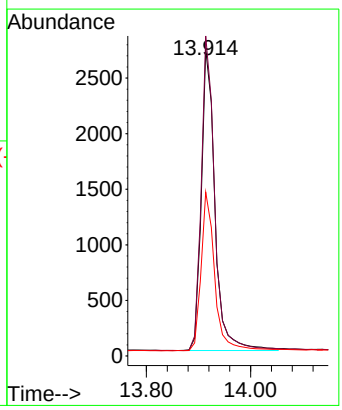


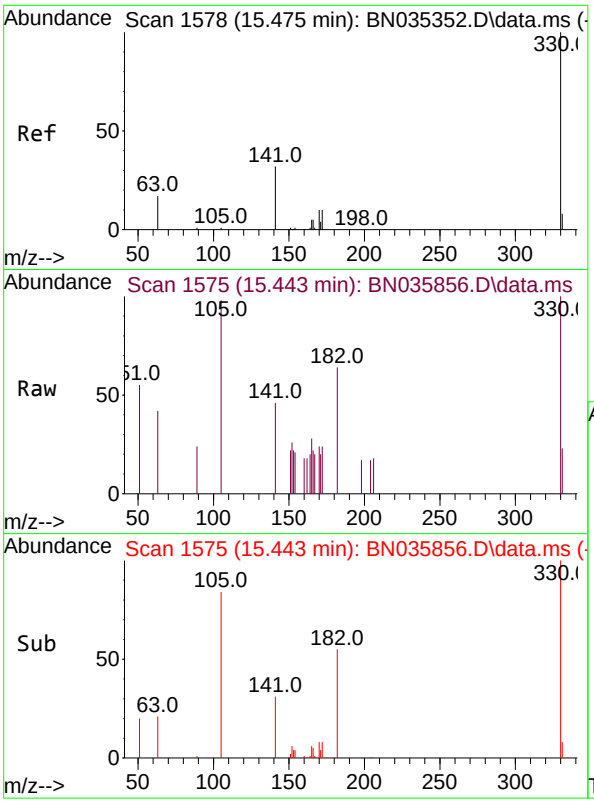


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:164 Resp: 4933

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	53.4	40.1	60.1



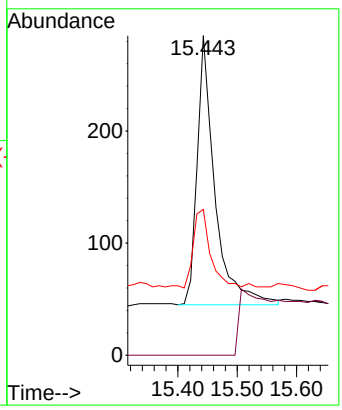


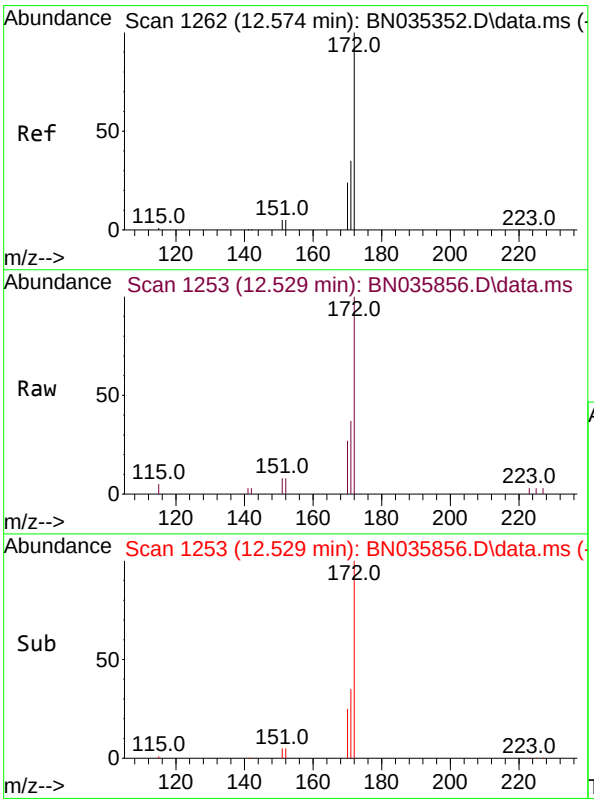
#14
2,4,6-Tribromophenol
Concen: 0.149 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:330 Resp: 521

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.0	26.6	40.0

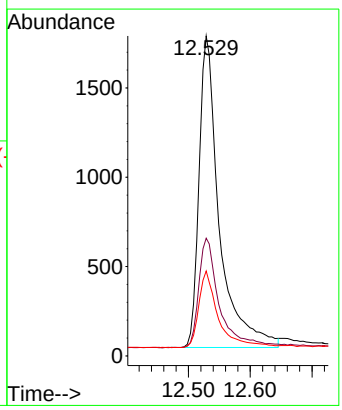


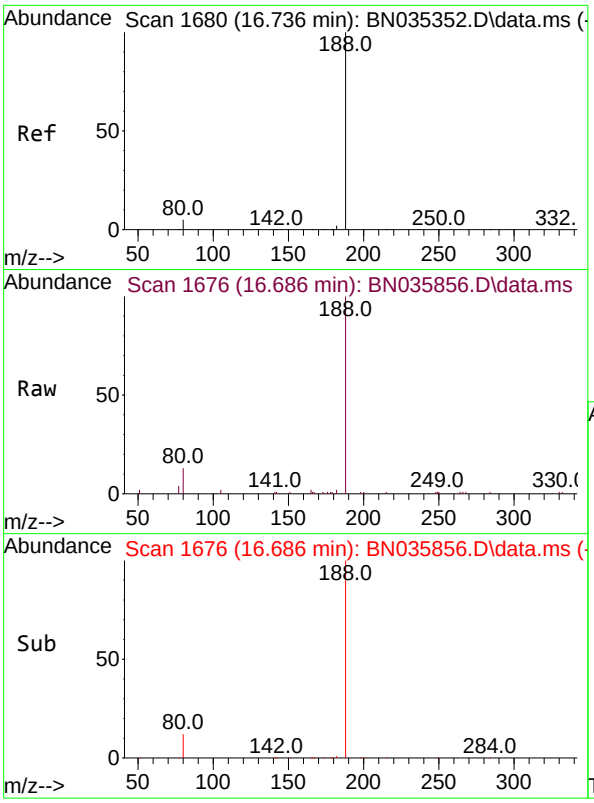


#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 12.529 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:172 Resp: 3977

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	26.5	19.8	29.8



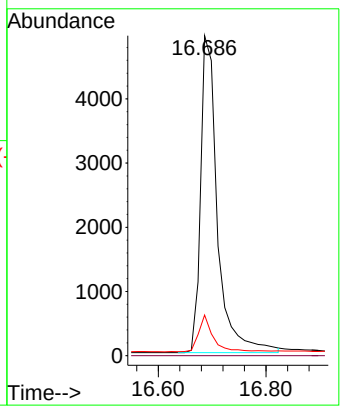


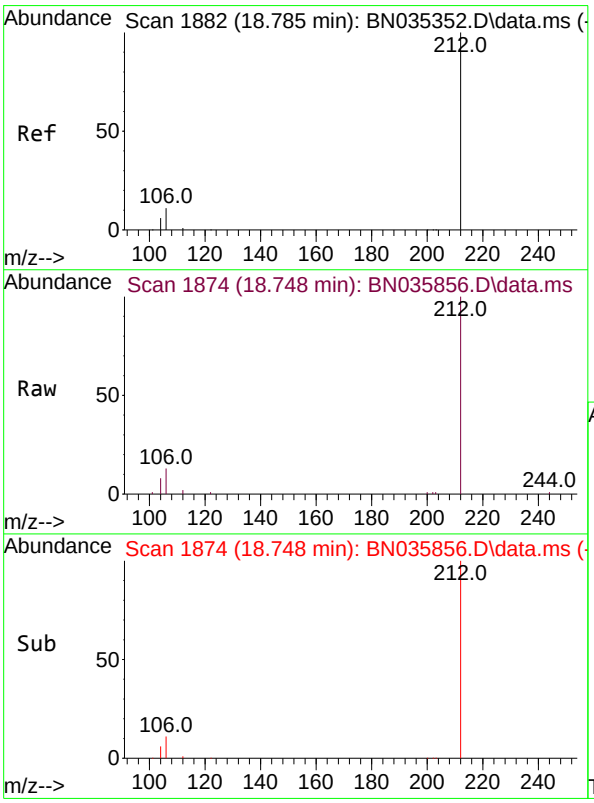
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:188 Resp: 10717

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	4.6	6.8#

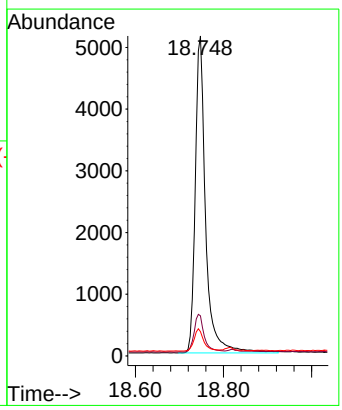


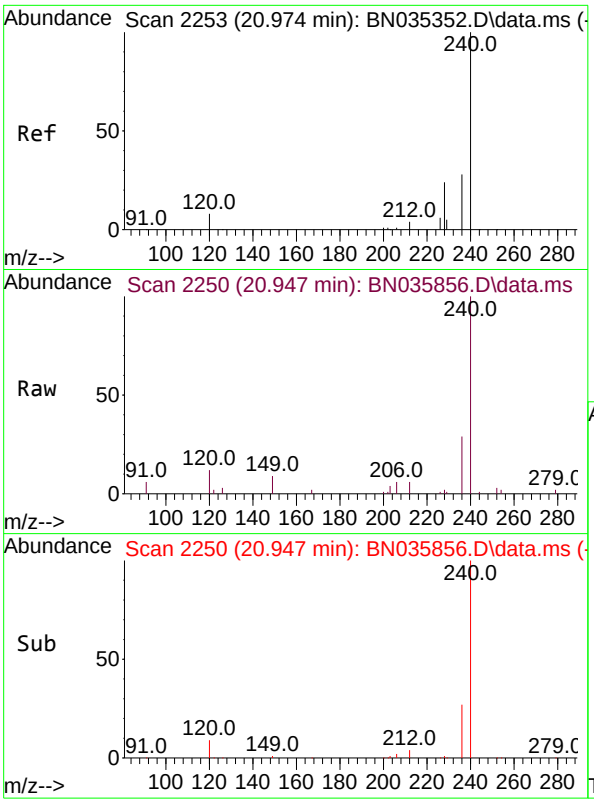


#27
Fluoranthene-d10
Concen: 0.276 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:212 Resp: 8393

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



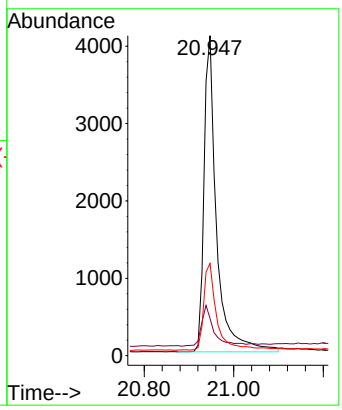


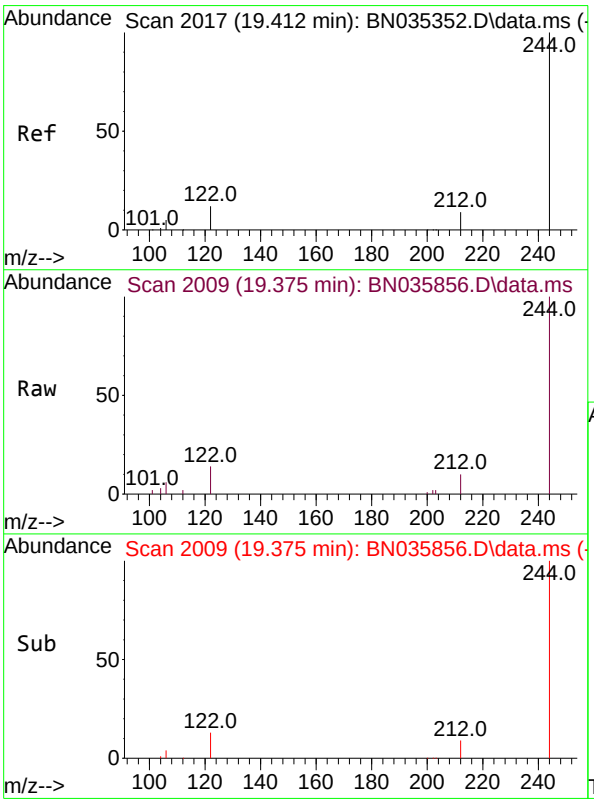
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:240 Resp: 7941

Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.9	11.9
236	28.8	22.9	34.3

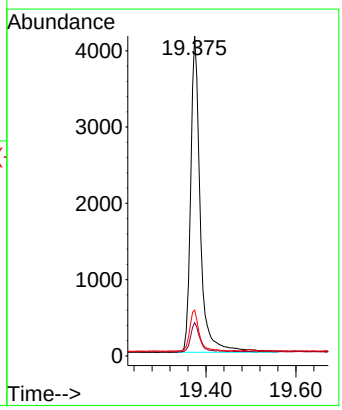


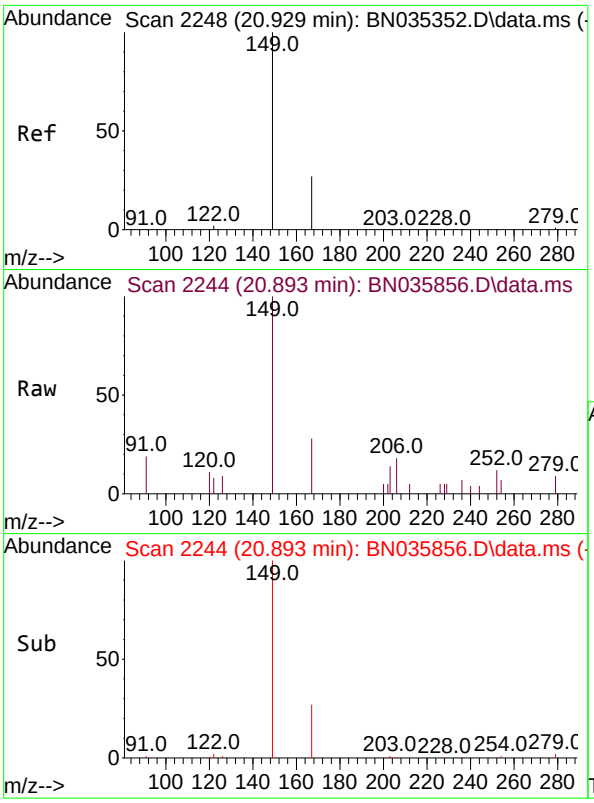


#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:244 Resp: 6181

Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	14.3	10.3	15.5



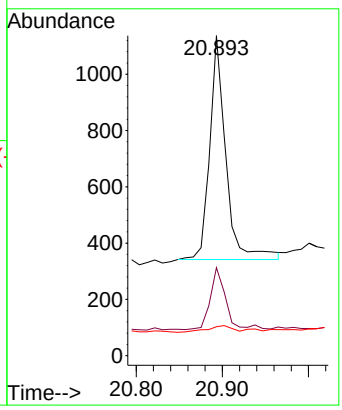


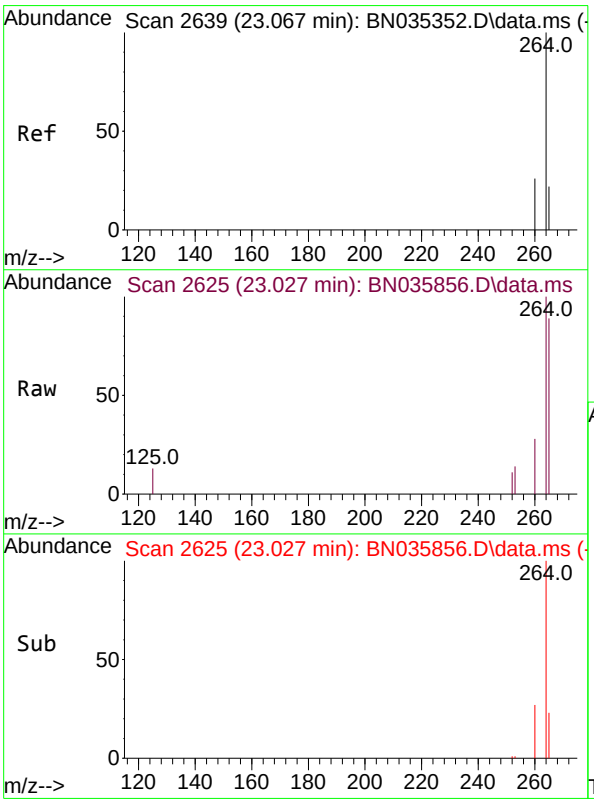
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
TT189D2-20241213DL

Tgt Ion:149 Resp: 1034

Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.2	33.4
279	4.6	2.7	4.1#

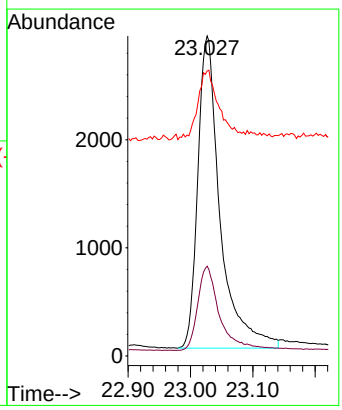




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035856.D
Acq: 26 Dec 2024 16:42

Tgt Ion:264 Resp: 7194

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.4	32.2
265	89.1	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035858.D
Acq On : 26 Dec 2024 17:53
Operator : RC/JU
Sample : P5281-06DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Quant Time: Dec 27 00:42:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2930	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	6901	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4611	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10065	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7379	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	6927	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	517	0.071	ng	-0.01
5) Phenol-d6	6.477	99	323	0.037	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1305	0.310	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	2321	0.215	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	446	0.136	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	3712	0.213	ng	-0.02
27) Fluoranthene-d10	18.747	212	7627	0.267	ng	-0.01
31) Terphenyl-d14	19.375	244	5442	0.374	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	9945	3.550	ng	99
6) bis(2-Chloroethyl)ether	6.716	93	235	0.032	ng	93
34) Bis(2-ethylhexyl)phtha...	20.893	149	826	0.081	ng	# 87

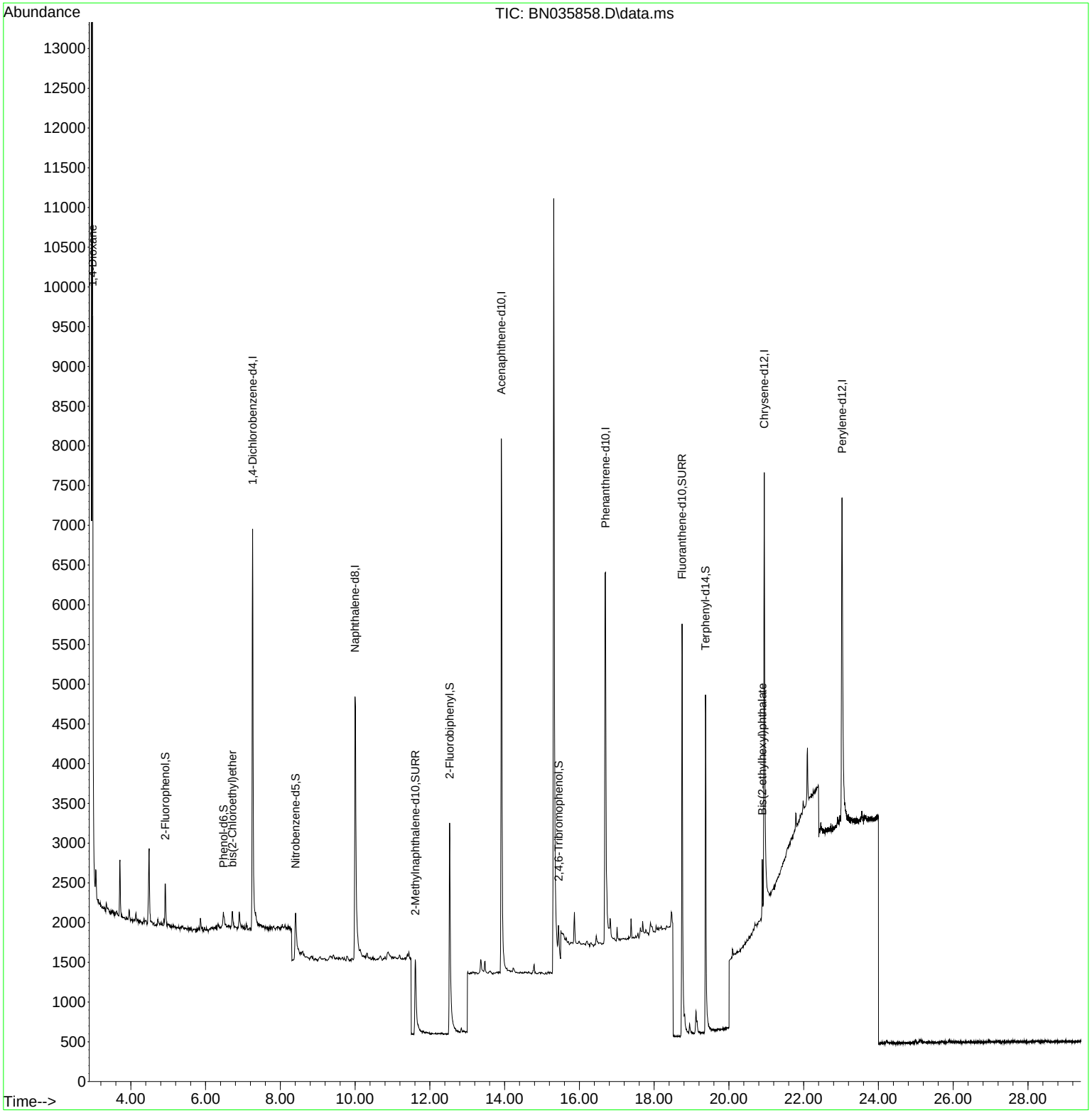
(#) = qualifier out of range (m) = manual integration (+) = signals summed

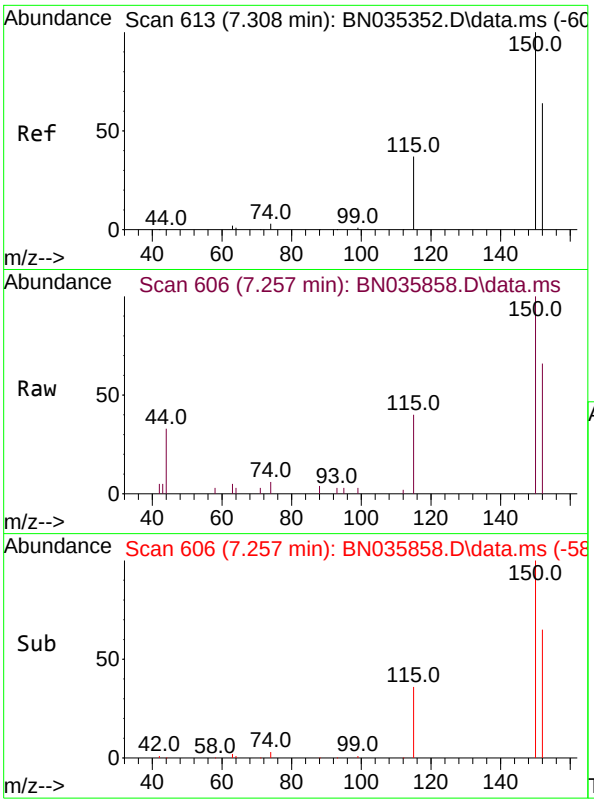
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035858.D
Acq On : 26 Dec 2024 17:53
Operator : RC/JU
Sample : P5281-06DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Quant Time: Dec 27 00:42:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



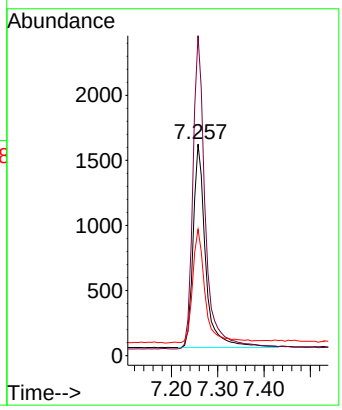


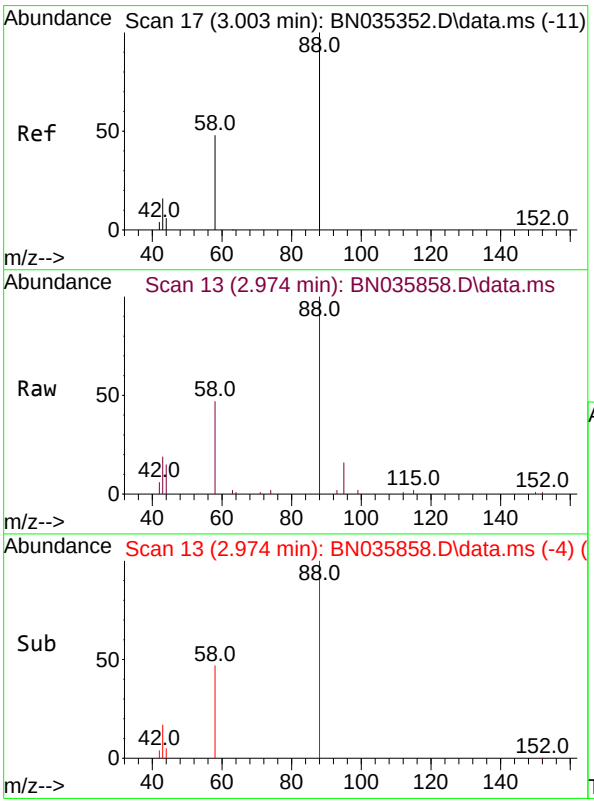
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:152 Resp: 2930

Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.0	186.0
115	59.8	49.6	74.4

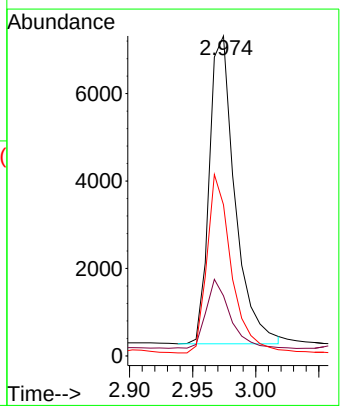


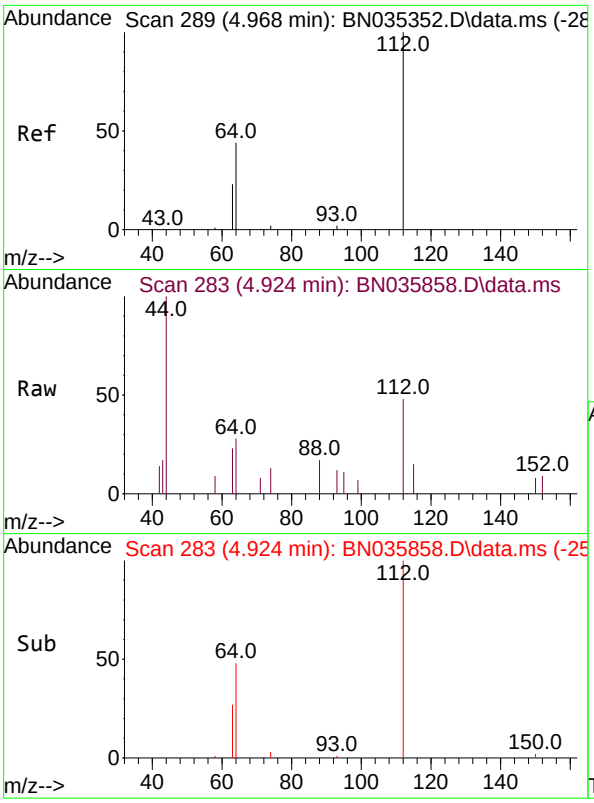


#2
1,4-Dioxane
Concen: 3.550 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion: 88 Resp: 9945

Ion	Ratio	Lower	Upper
88	100		
43	20.8	17.2	25.8
58	55.2	44.5	66.7



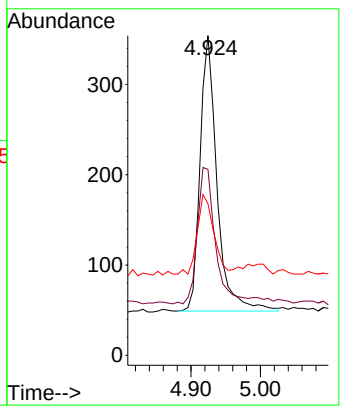


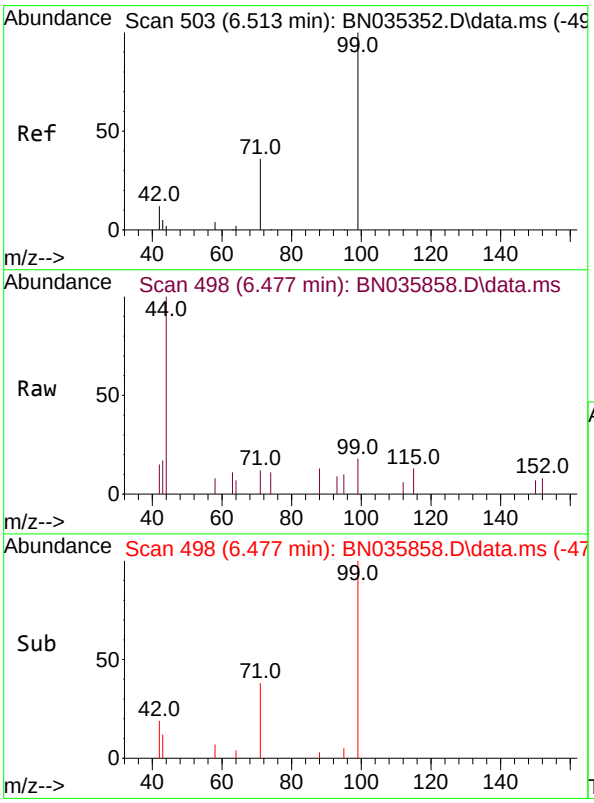
#4
2-Fluorophenol
Concen: 0.071 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:112 Resp: 517

Ion	Ratio	Lower	Upper
112	100		
64	52.6	39.8	59.8
63	28.0	21.0	31.6

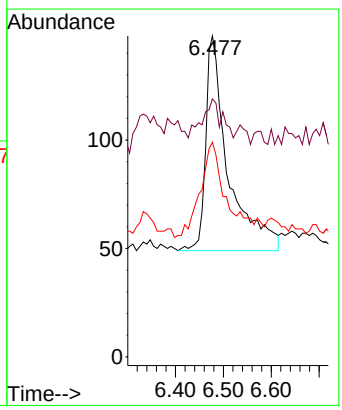


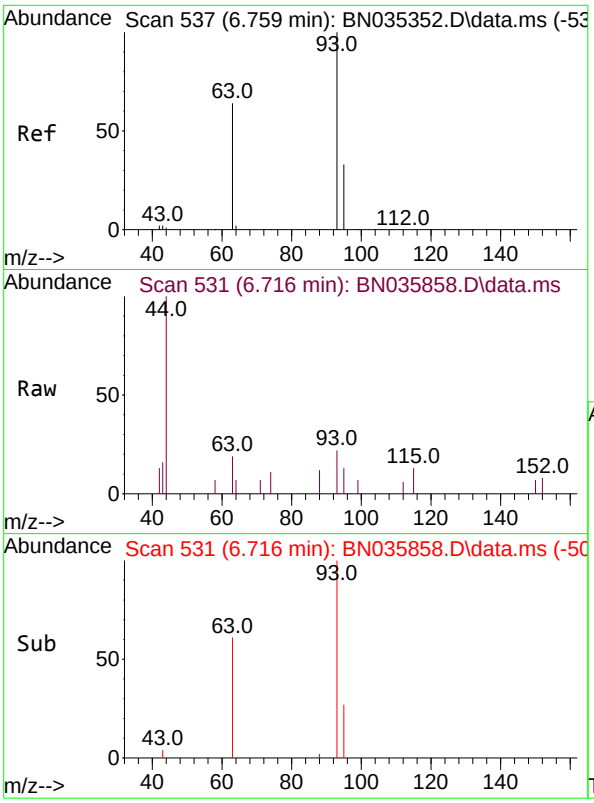


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion: 99 Resp: 323

Ion	Ratio	Lower	Upper
99	100		
42	22.0	11.4	17.2#
71	50.8	29.3	43.9#



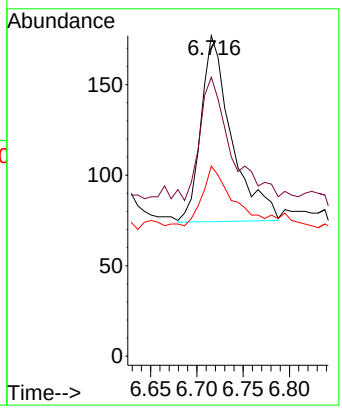


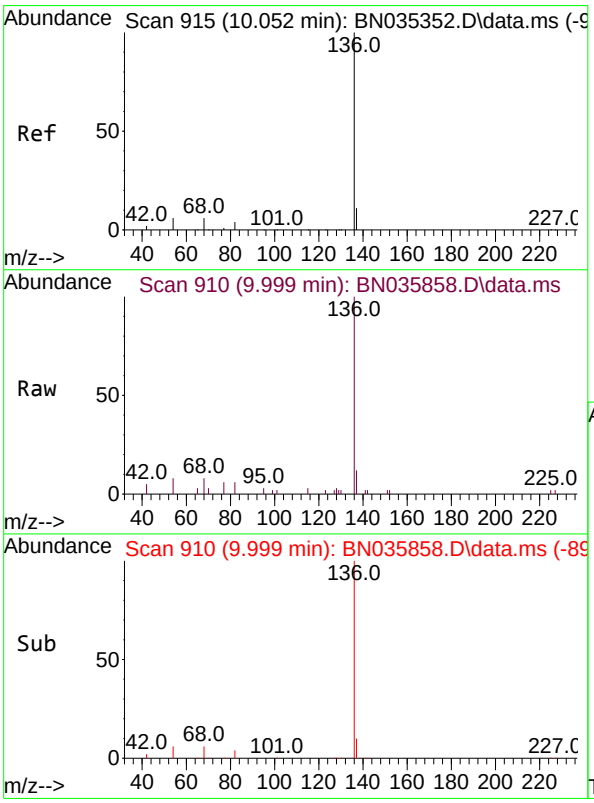
#6
bis(2-Chloroethyl)ether
Concen: 0.032 ng
RT: 6.716 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion: 93 Resp: 235

Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.4	75.6
95	31.5	25.7	38.5

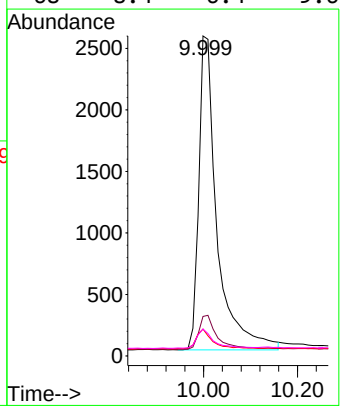


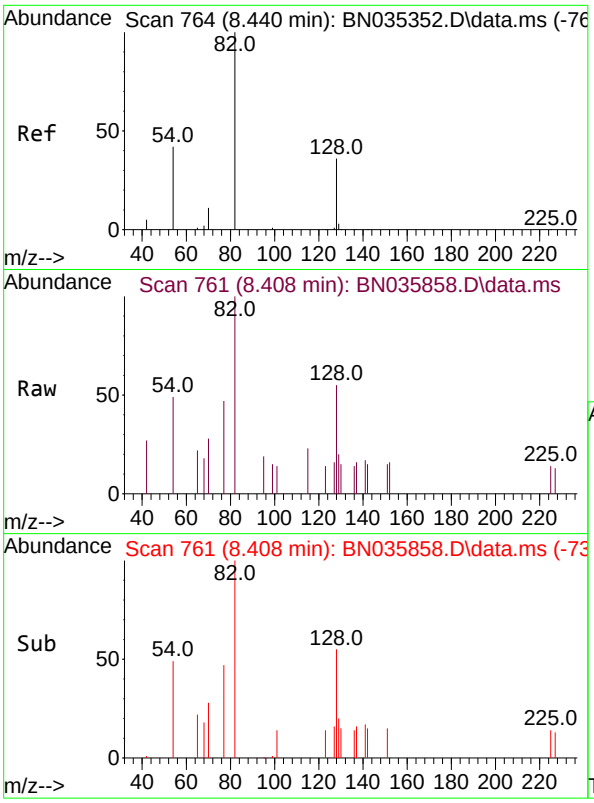


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.021 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:136 Resp: 6901

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	8.4	6.1	9.1
68	8.4	6.4	9.6



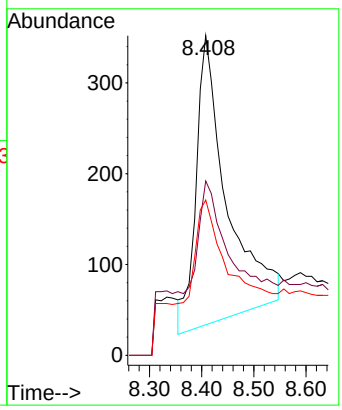


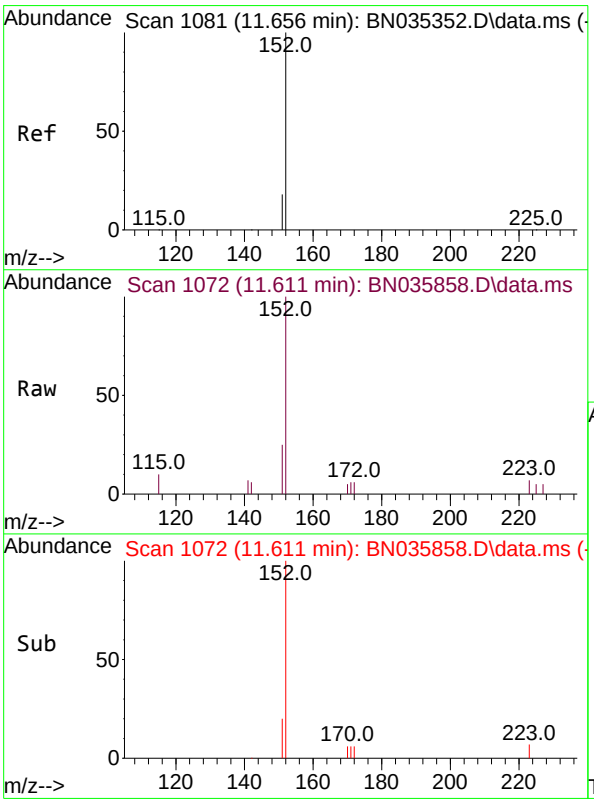
#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion: 82 Resp: 1305

Ion	Ratio	Lower	Upper
82	100		
128	54.5	33.4	50.0#
54	48.6	36.7	55.1

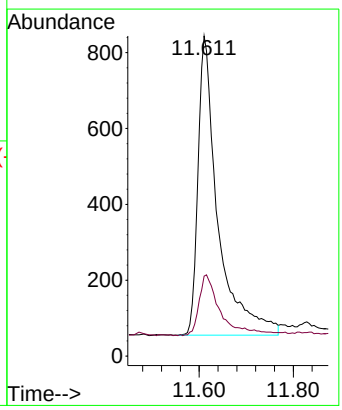


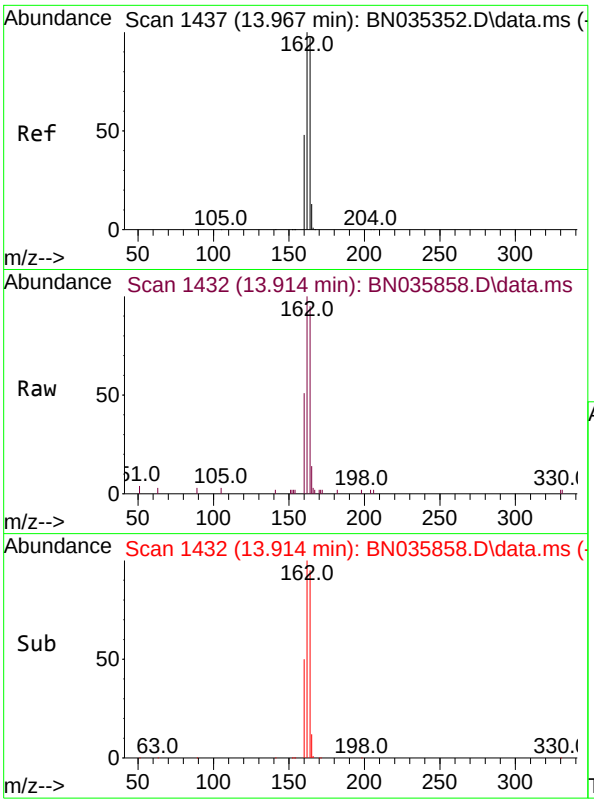


#11
2-Methylnaphthalene-d10
Concen: 0.215 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:152 Resp: 2321

Ion	Ratio	Lower	Upper
152	100		
151	22.1	16.6	25.0



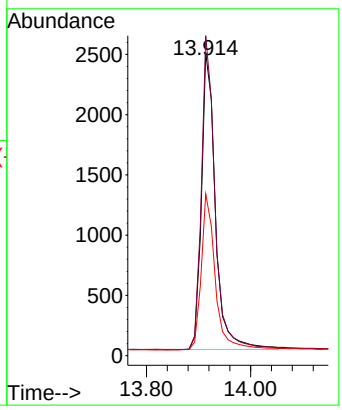


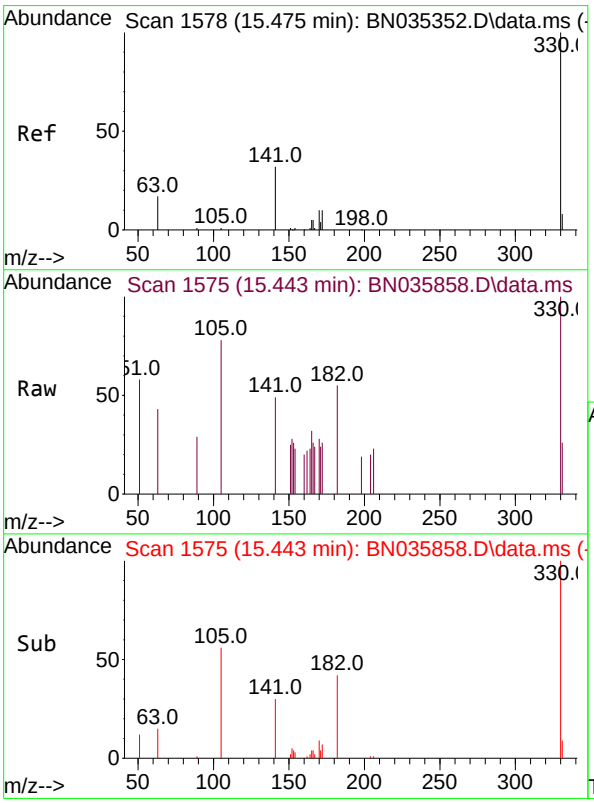
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:164 Resp: 4611

Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.2
160	53.4	40.1	60.1

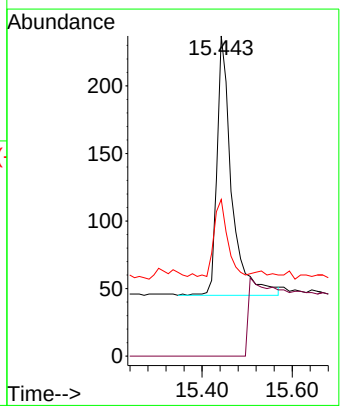


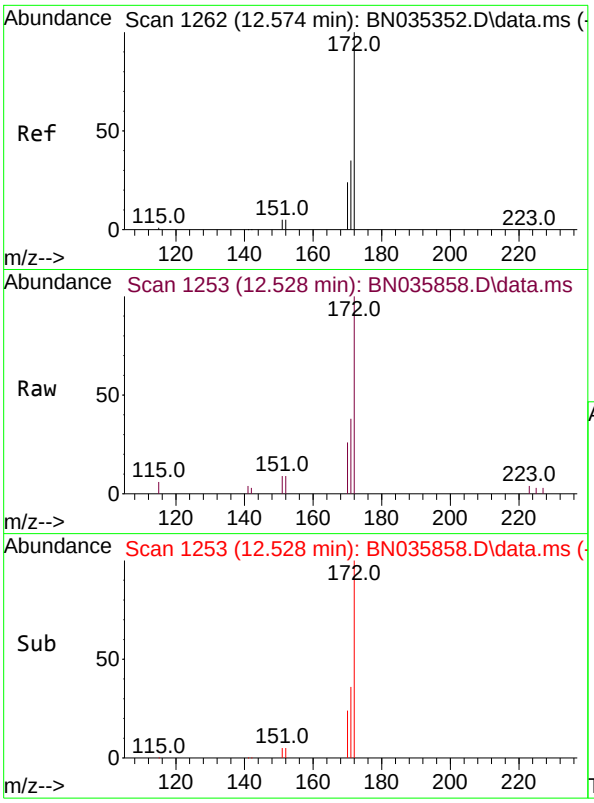


#14
2,4,6-Tribromophenol
Concen: 0.136 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:330 Resp: 446

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.2	26.6	40.0#



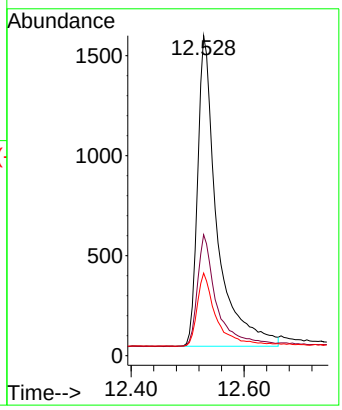


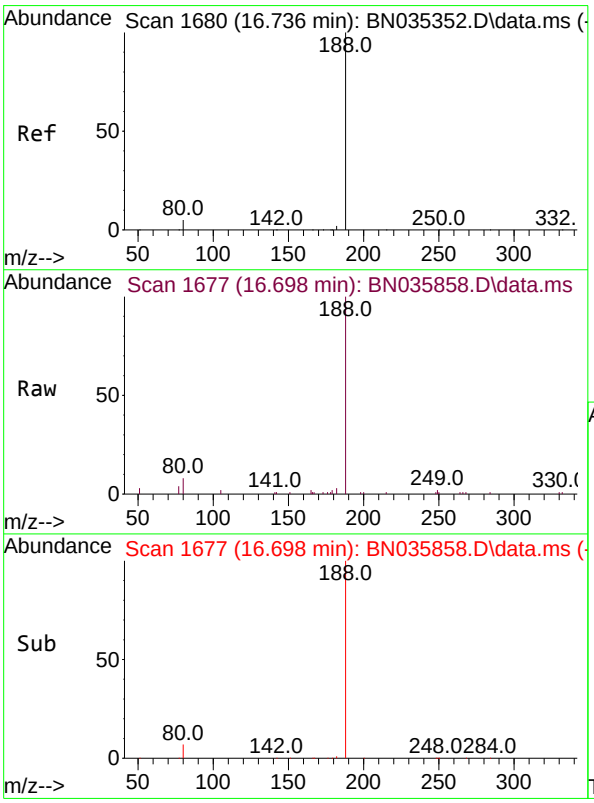
#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:172 Resp: 3712

Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.0	43.4
170	25.8	19.8	29.8

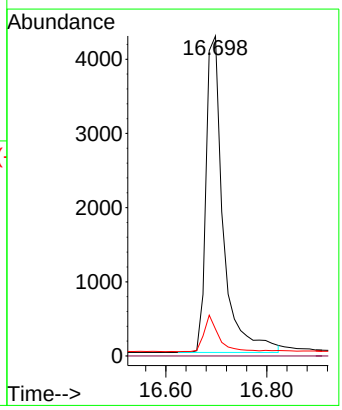


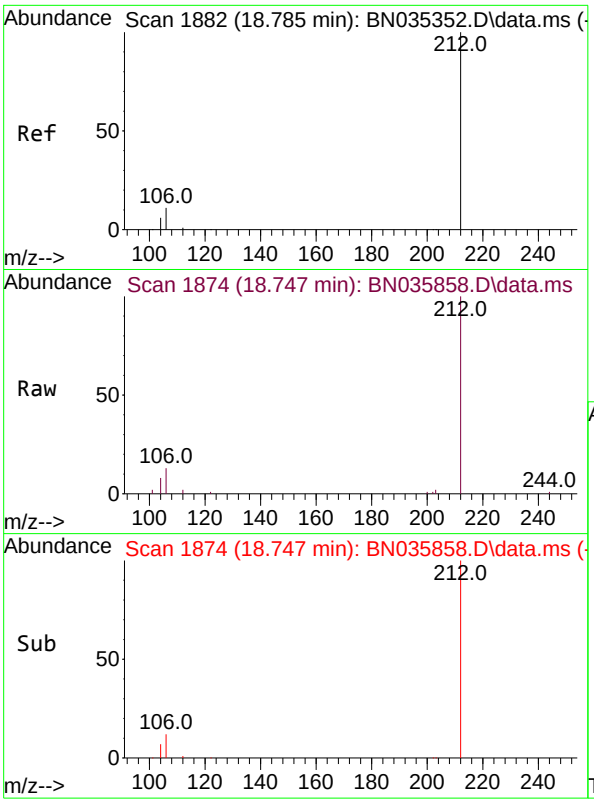


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:188 Resp: 10065

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.6	6.8#



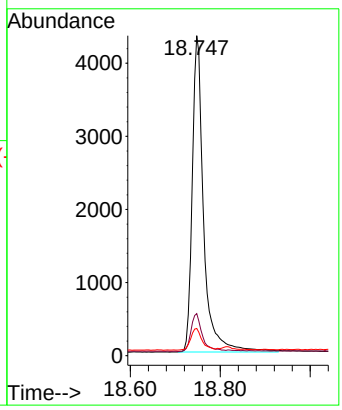


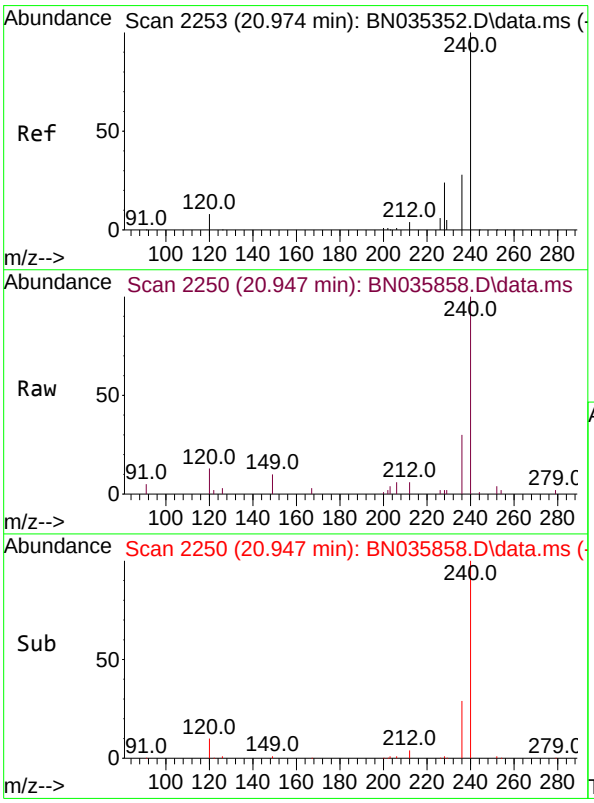
#27
Fluoranthene-d10
Concen: 0.267 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:212 Resp: 7627

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9

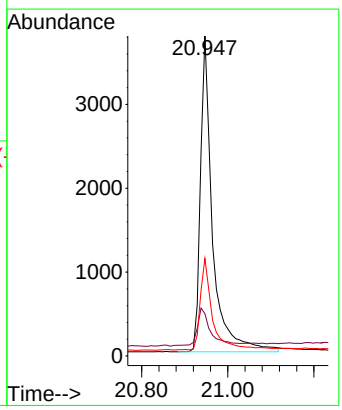


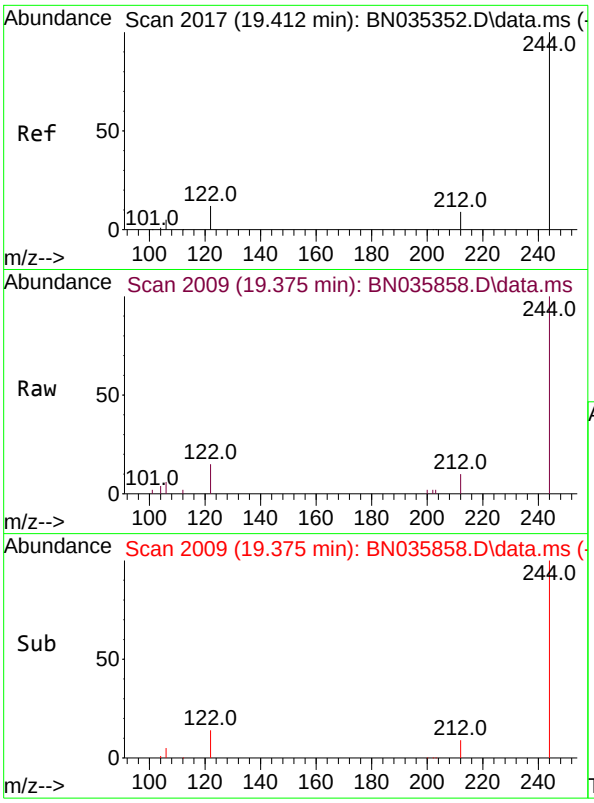


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:240 Resp: 7379

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	30.5	22.9	34.3



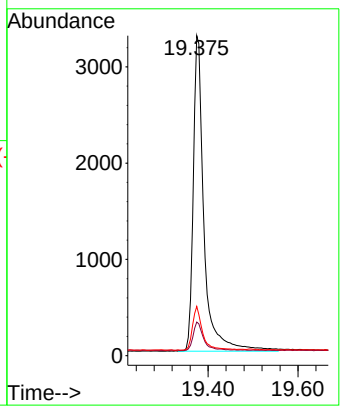


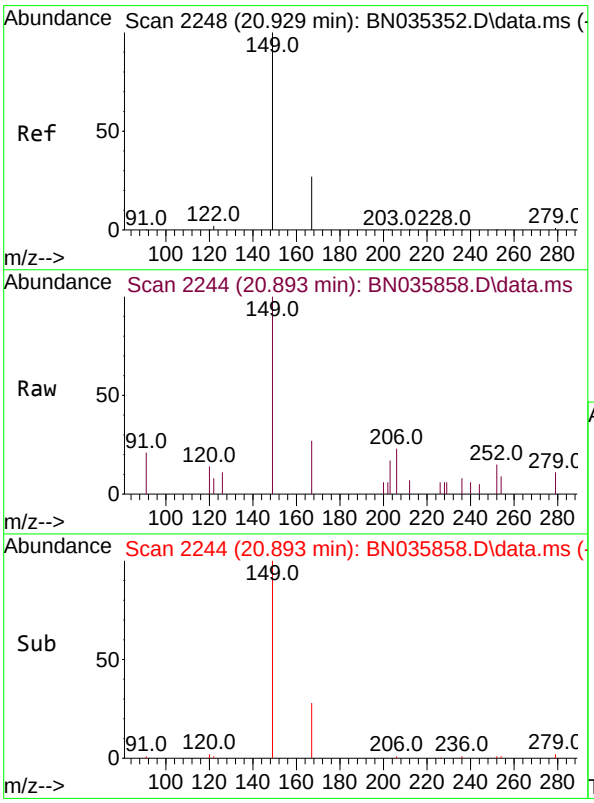
#31
Terphenyl-d14
Concen: 0.374 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:244 Resp: 5442

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	15.4	10.3	15.5

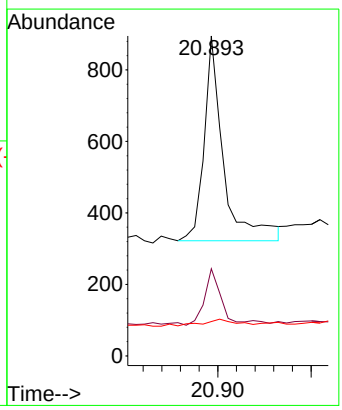


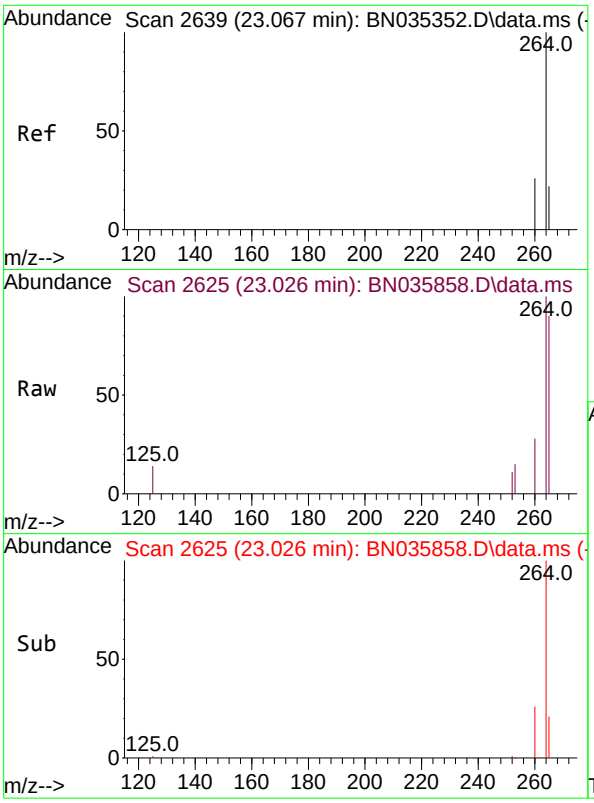


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.081 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Tgt Ion:149 Resp: 826

Ion	Ratio	Lower	Upper
149	100		
167	20.6	22.2	33.4#
279	5.3	2.7	4.1#



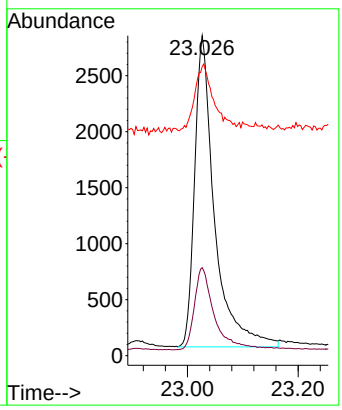


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035858.D
Acq: 26 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:264 Resp: 6927

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	90.4	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

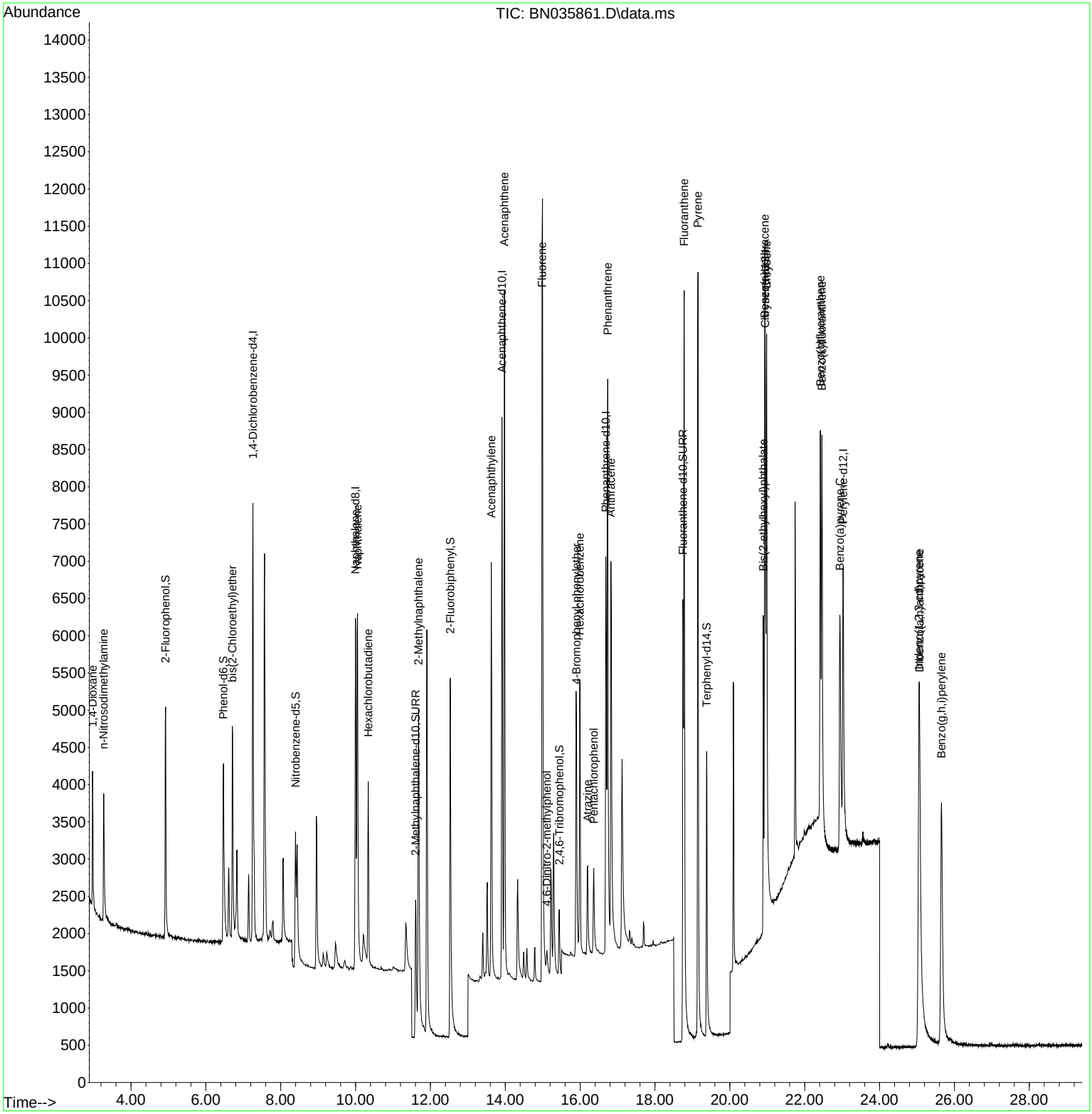
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng		#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng		# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	2874	0.372	ng		-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2397	0.542	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng		-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng		-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng		96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	#	90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng		98
9) Naphthalene	10.052	128	7516	0.394	ng		100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	#	99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng		99
16) Acenaphthylene	13.625	152	6923	0.369	ng		100
17) Acenaphthene	13.978	154	4776	0.383	ng		99
18) Fluorene	14.983	166	6478	0.363	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	#	67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	#	96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng		98
23) Atrazine	16.202	200	1507	0.386	ng		94
24) Pentachlorophenol	16.363	266	846	0.302	ng	#	84
25) Phenanthrene	16.736	178	9697	0.377	ng		100
26) Anthracene	16.822	178	8100	0.348	ng		99
28) Fluoranthene	18.780	202	11145	0.321	ng		99
30) Pyrene	19.147	202	11492	0.517	ng		99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng		99
33) Chrysene	20.983	228	9578	0.441	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng		99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng		98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	#	92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	#	90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	#	82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	#	91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng		95

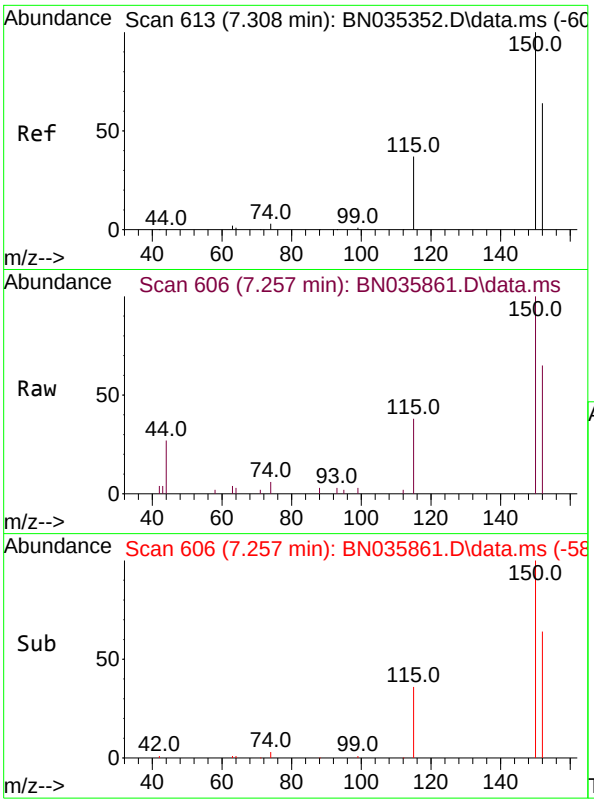
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



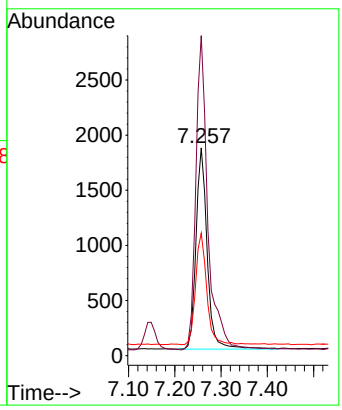


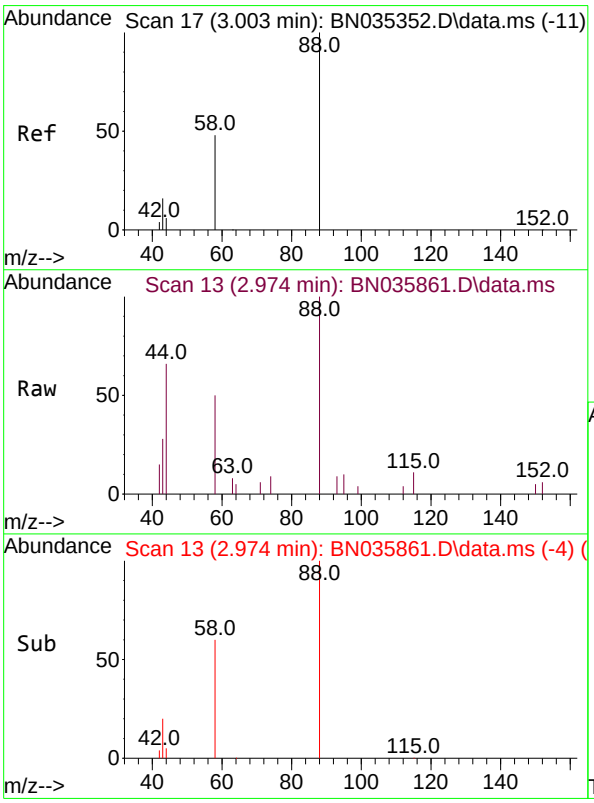
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3087

Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	58.9	49.6	74.4

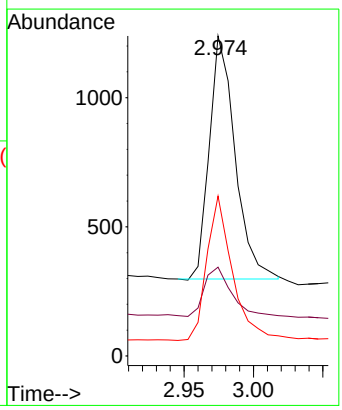


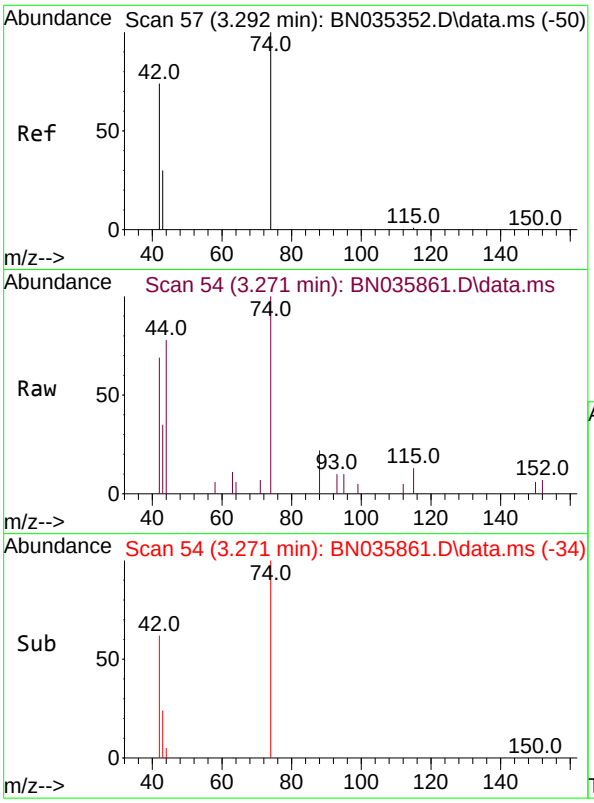


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215

Ion	Ratio	Lower	Upper
88	100		
43	20.1	17.2	25.8
58	59.1	44.5	66.7



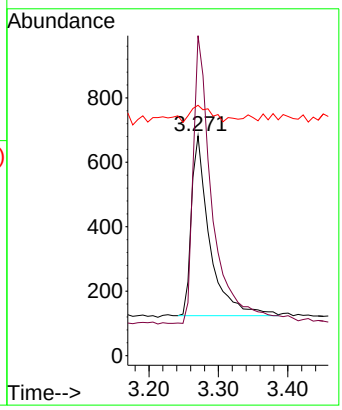


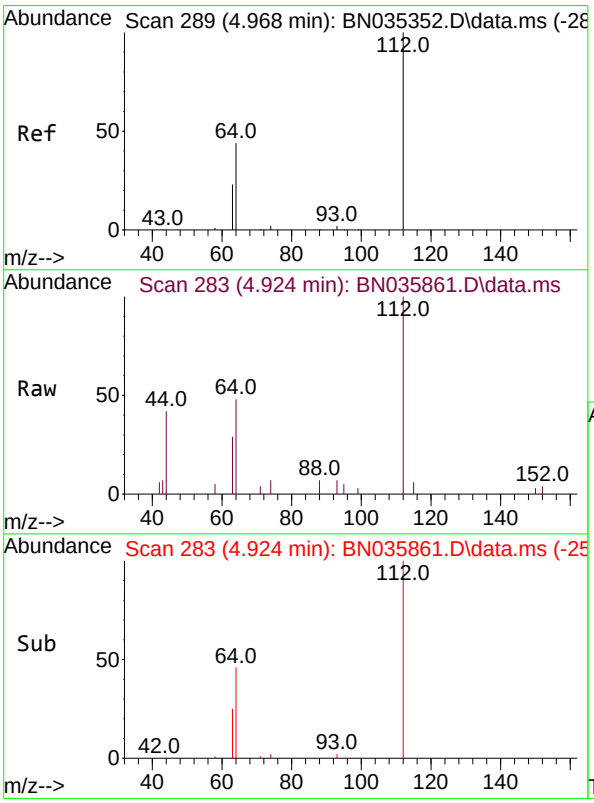
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1021

Ion	Ratio	Lower	Upper
42	100		
74	169.1	124.9	187.3
44	10.6	2.2	3.4#

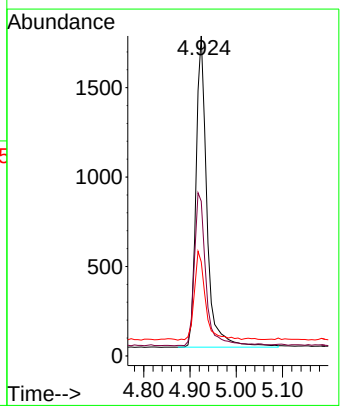


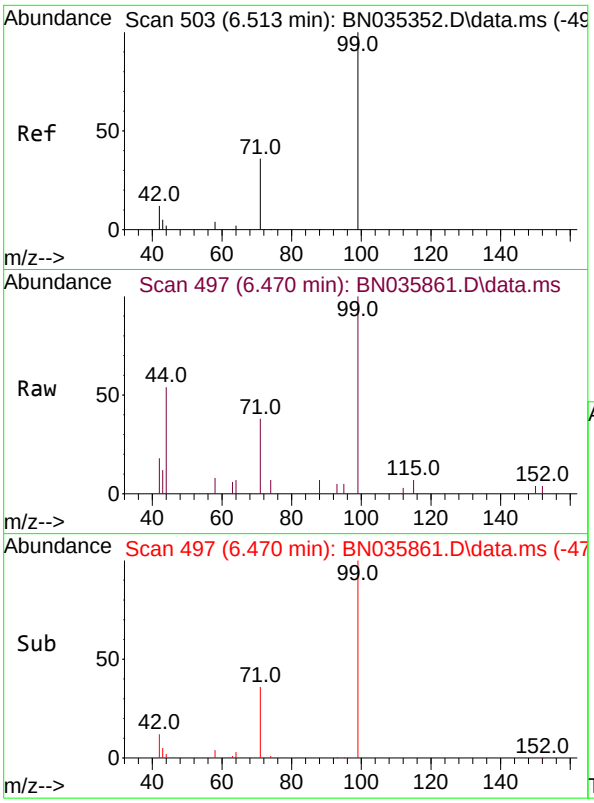


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.9	21.0	31.6



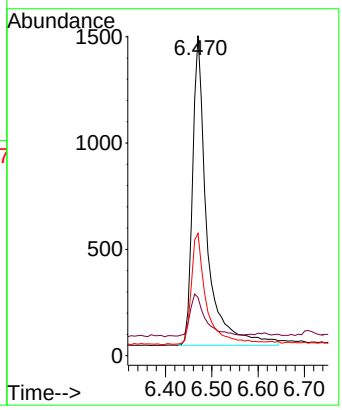


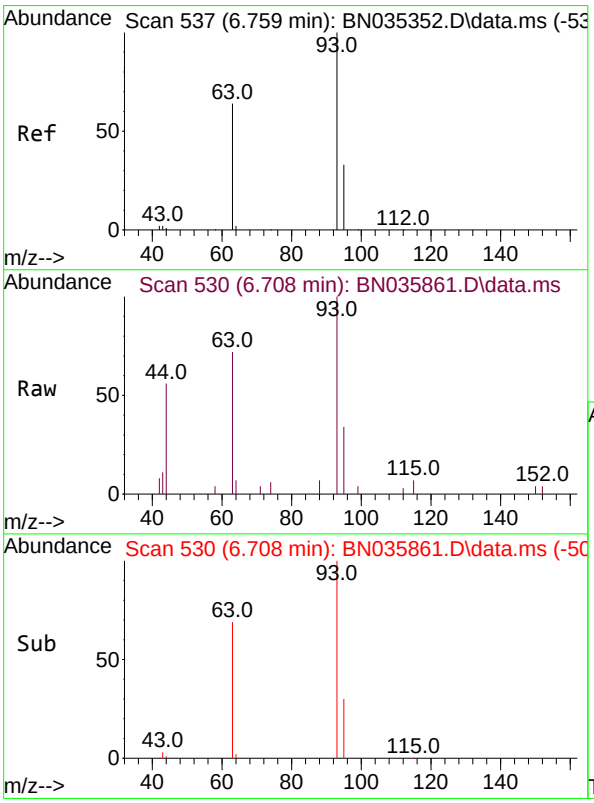
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3155

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9

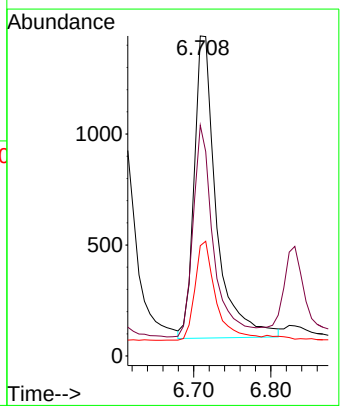


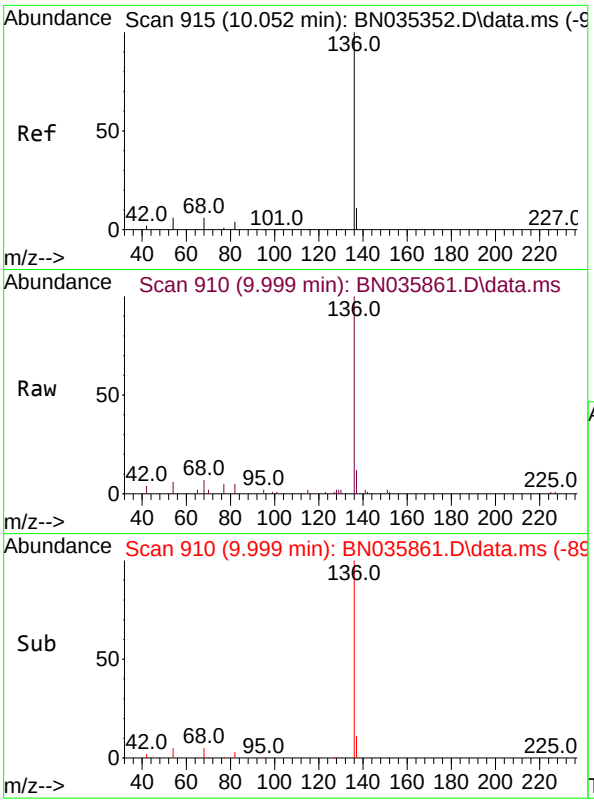


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

Ion	Ratio	Lower	Upper
93	100		
63	64.1	50.4	75.6
95	31.0	25.7	38.5



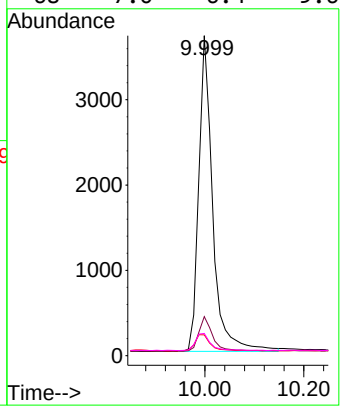


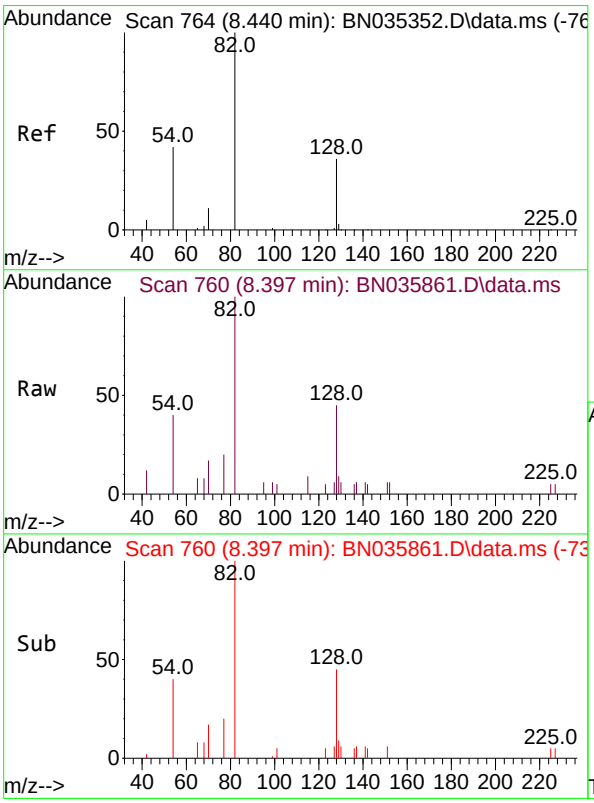
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 7239

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6

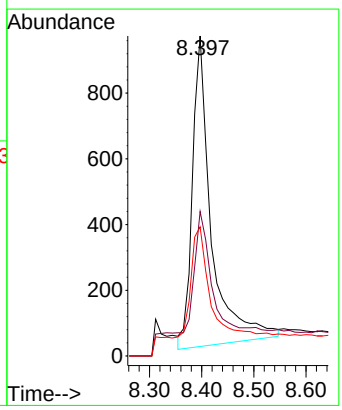


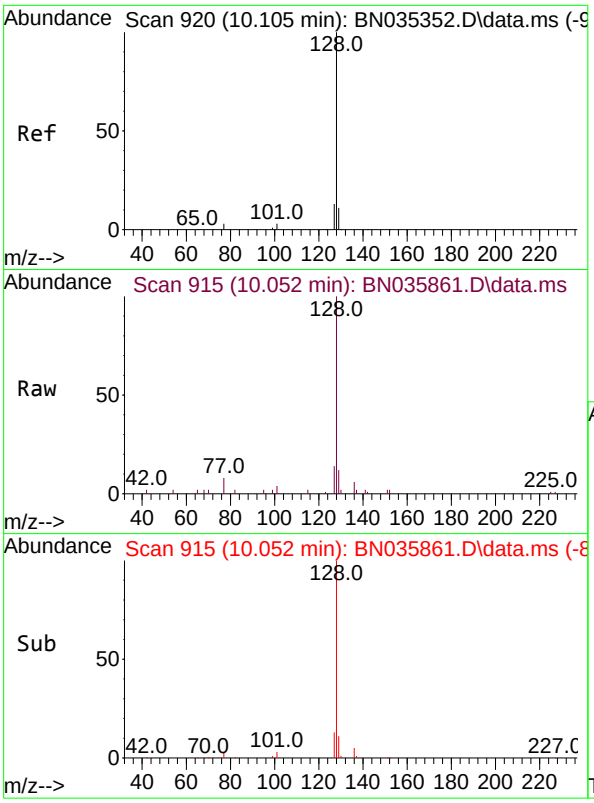


#8
Nitrobenzene-d5
Concen: 0.542 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2397

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1



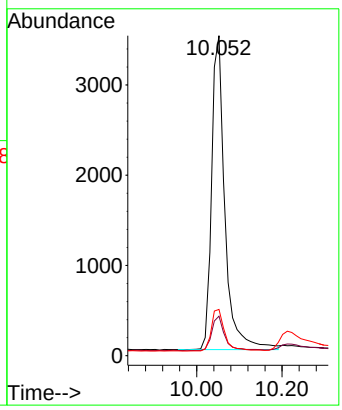


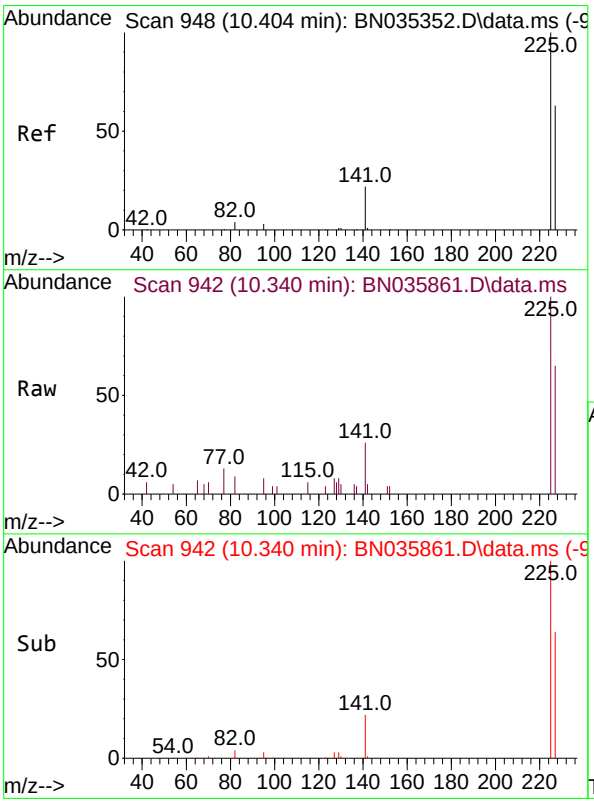
#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7516

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.5	11.4	17.2

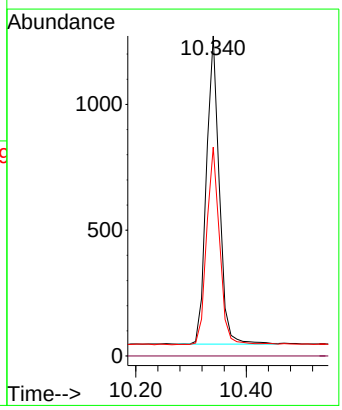


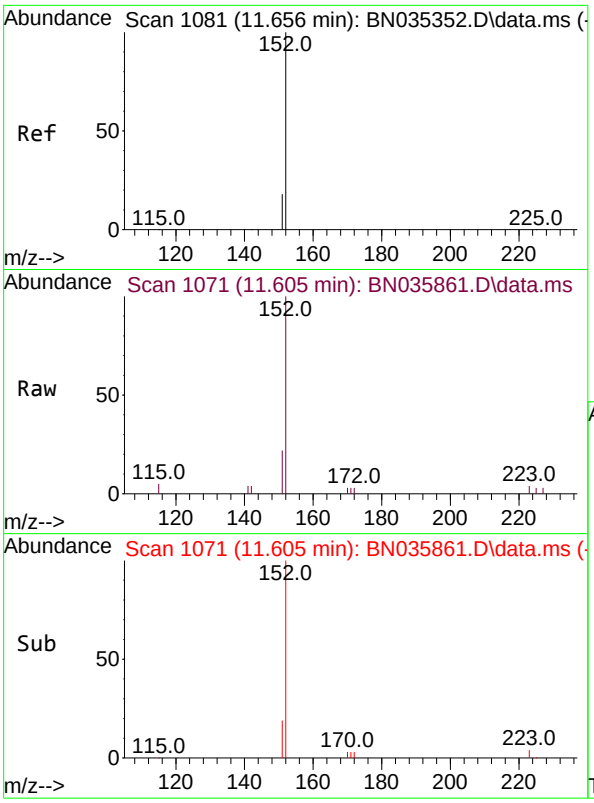


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



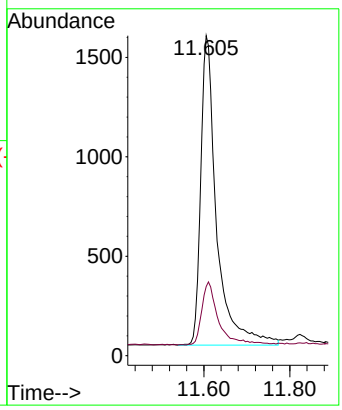


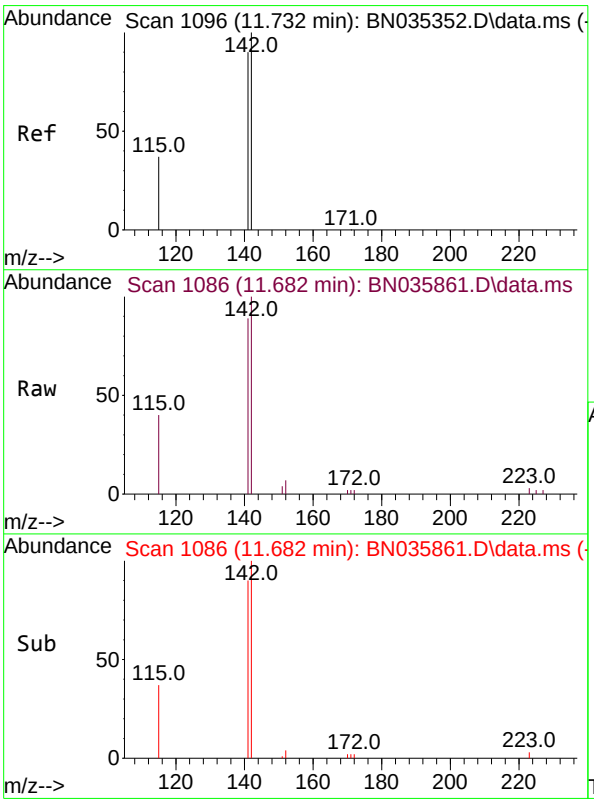
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3987

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

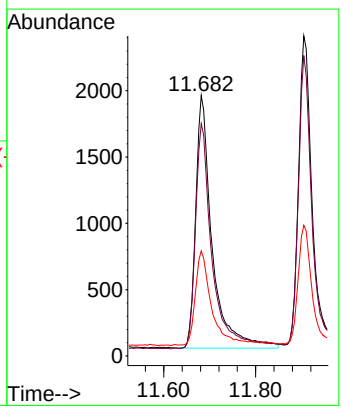


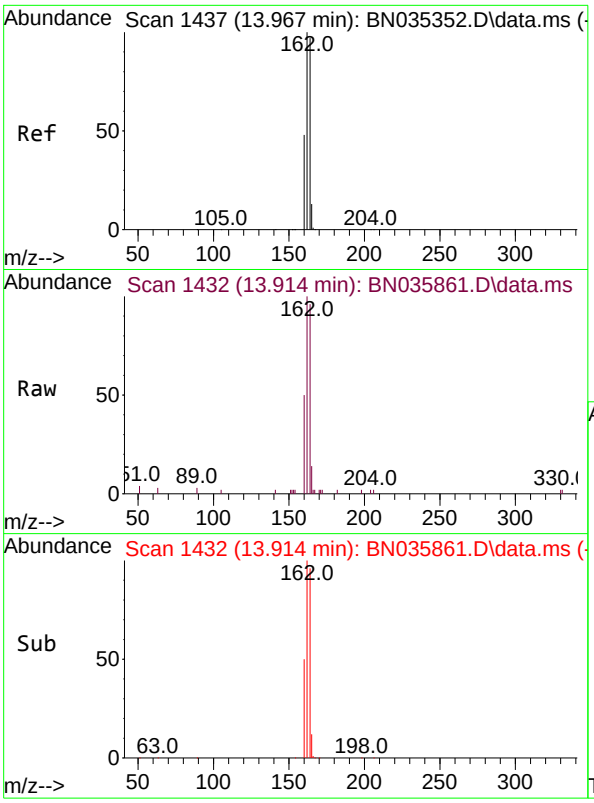


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.4	31.4	47.0



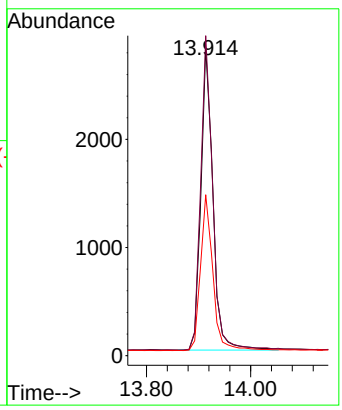


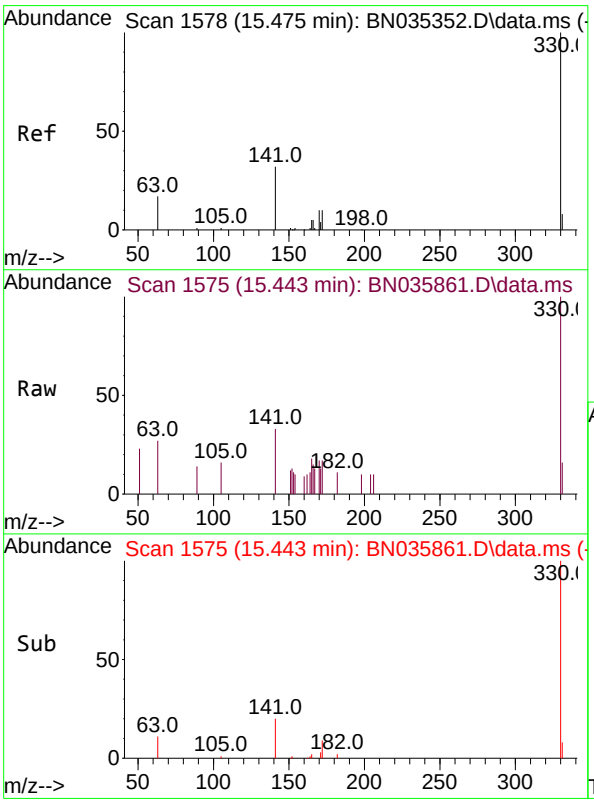
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 4472

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.3	40.1	60.1

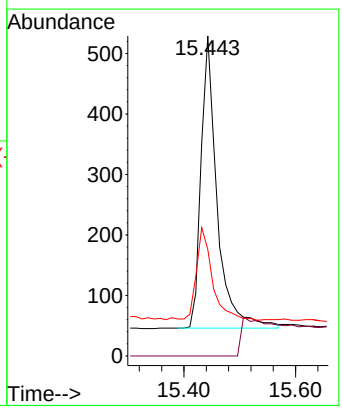


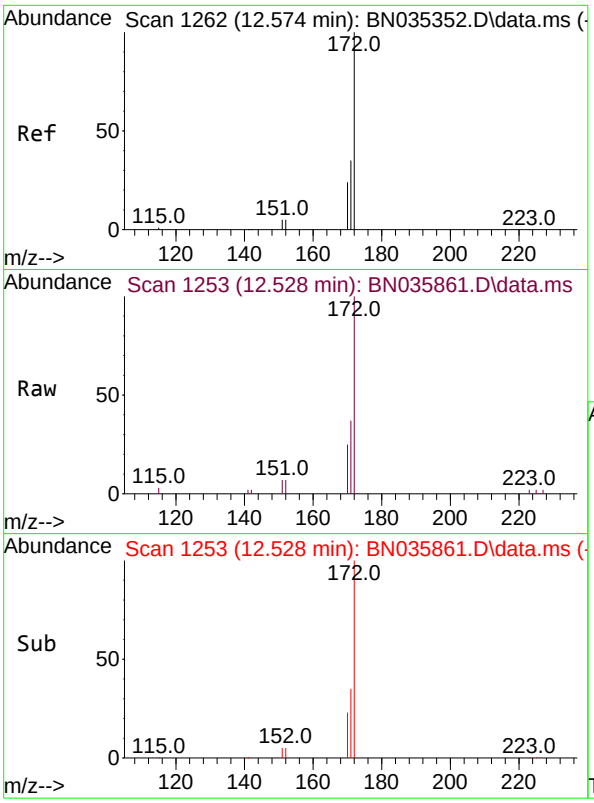


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.5	26.6	40.0



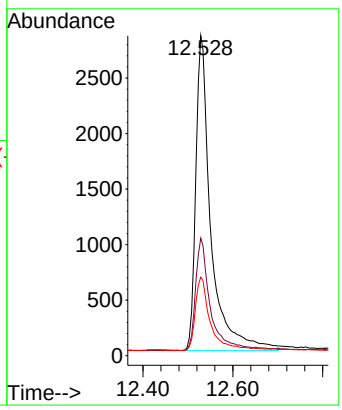


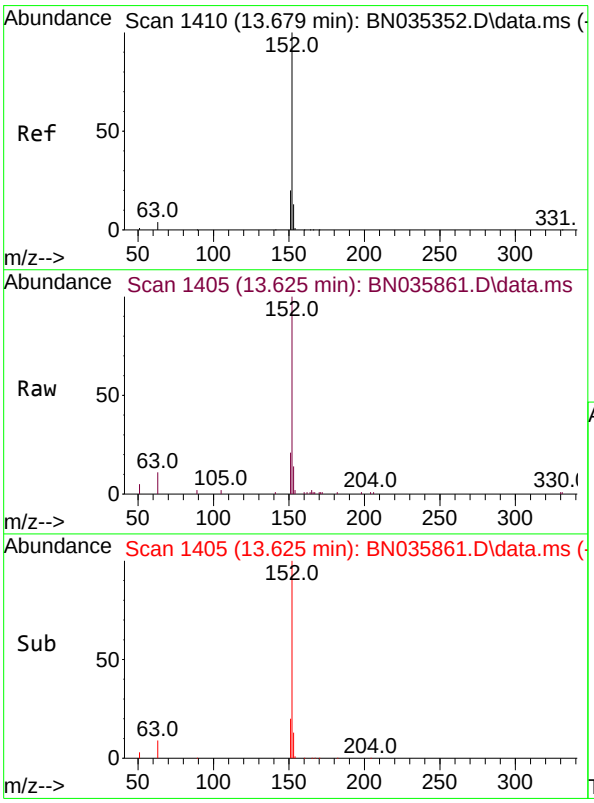
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 6619

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	24.5	19.8	29.8

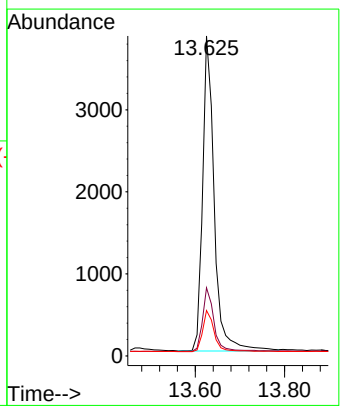


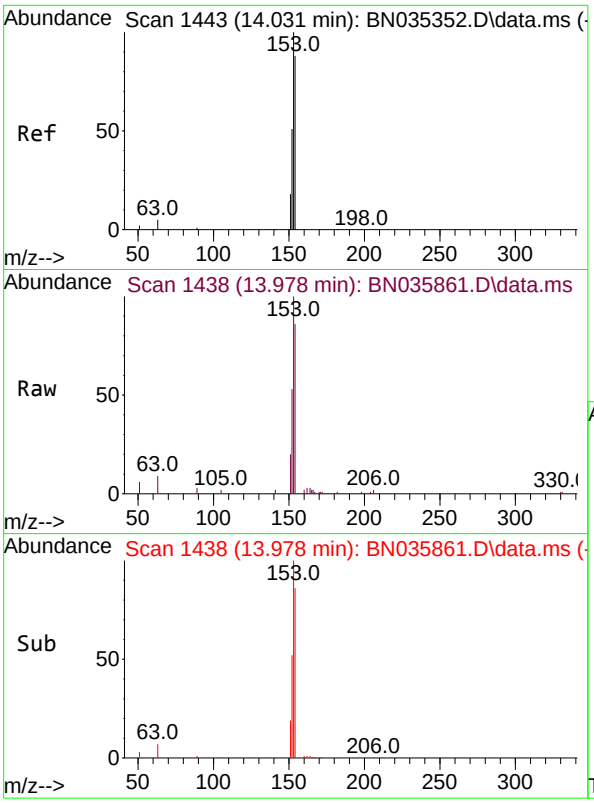


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6



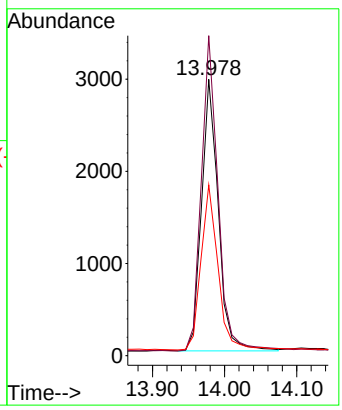


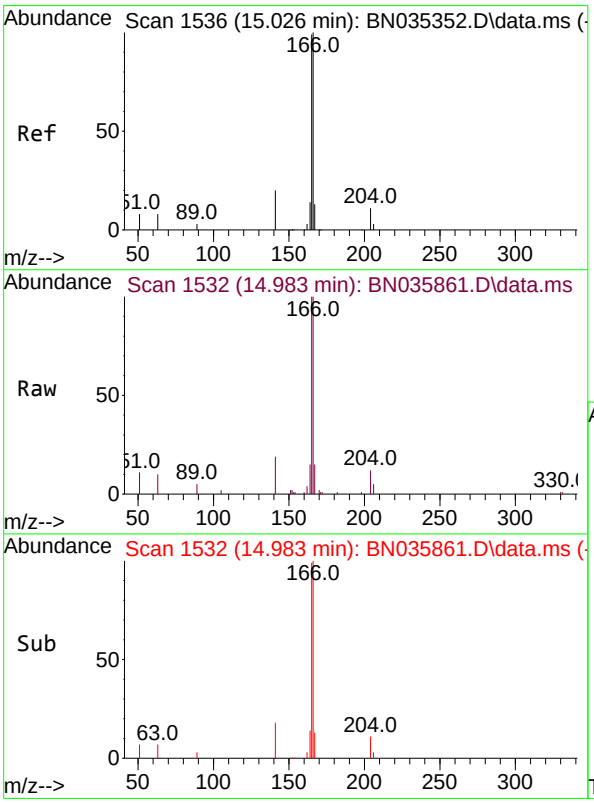
#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 4776

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.6	49.0	73.6

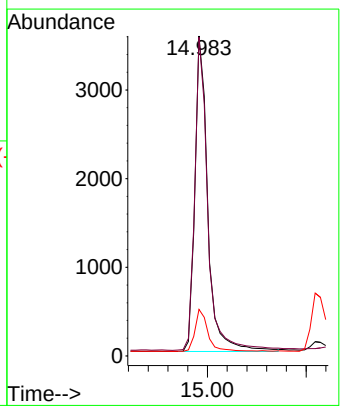


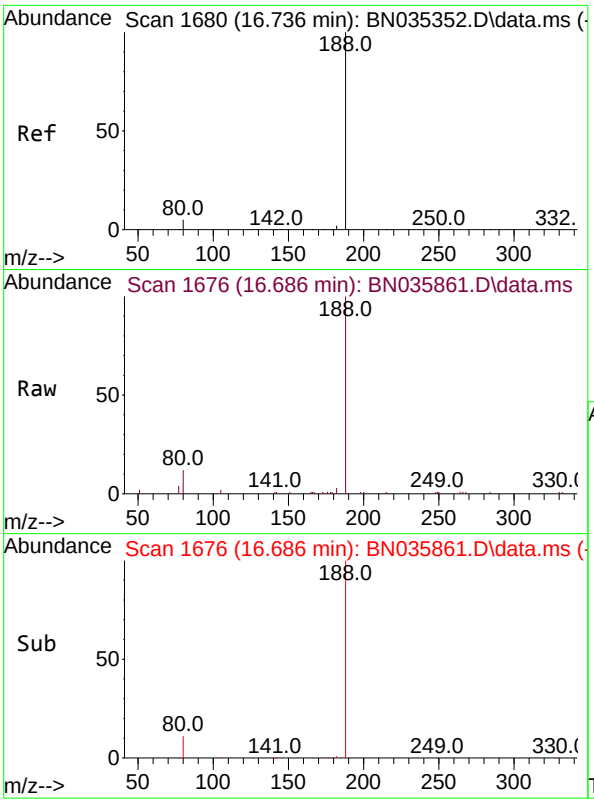


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.6	10.8	16.2



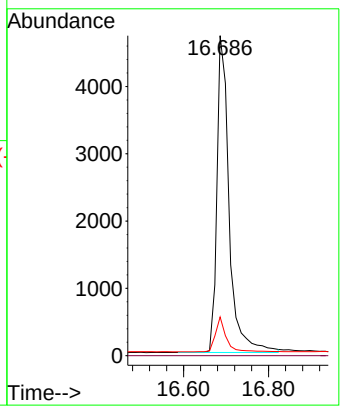


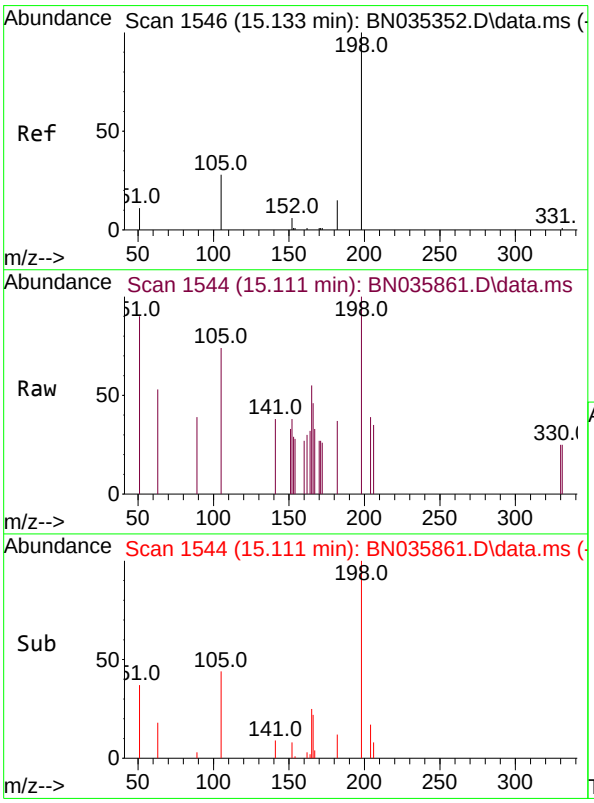
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9373

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#

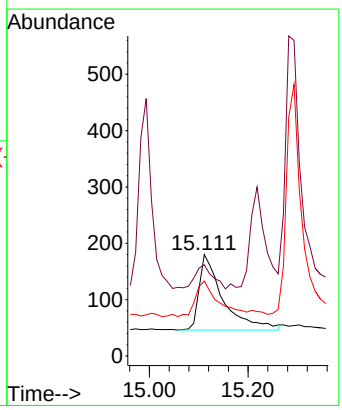


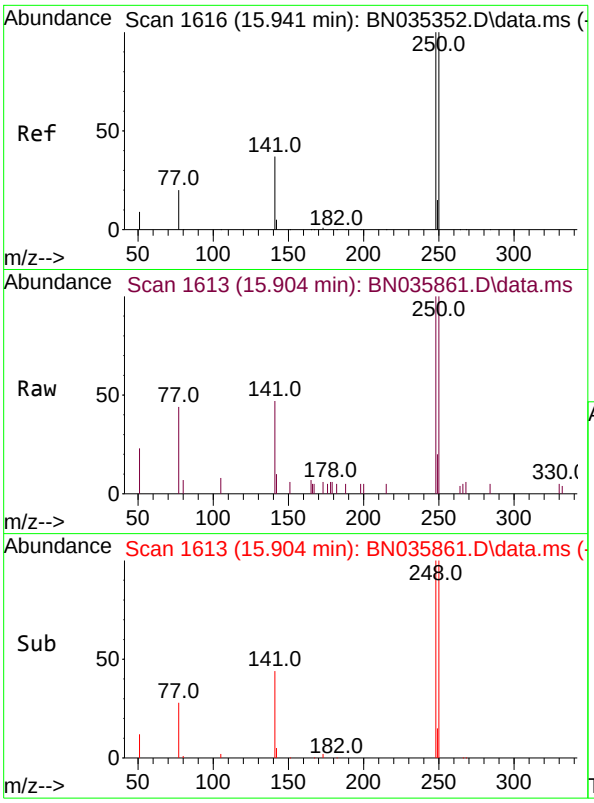


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

Ion	Ratio	Lower	Upper
198	100		
51	90.0	46.5	69.7#
105	73.9	45.3	67.9#



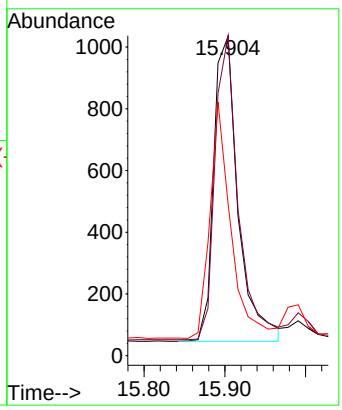


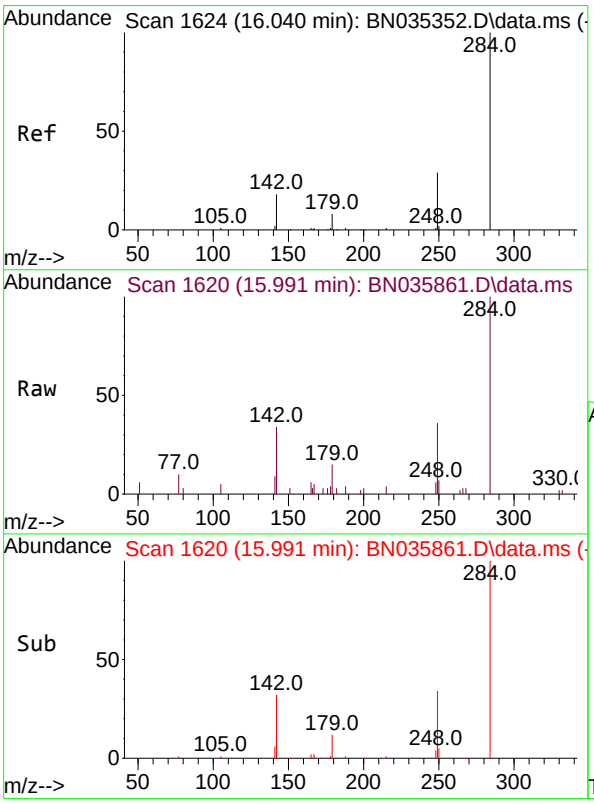
#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2071

Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3#

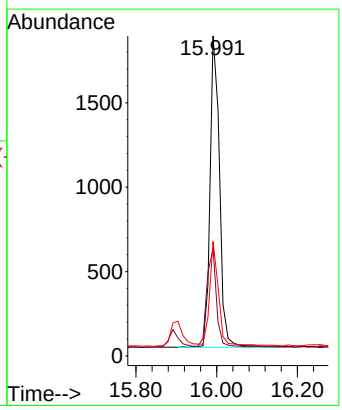


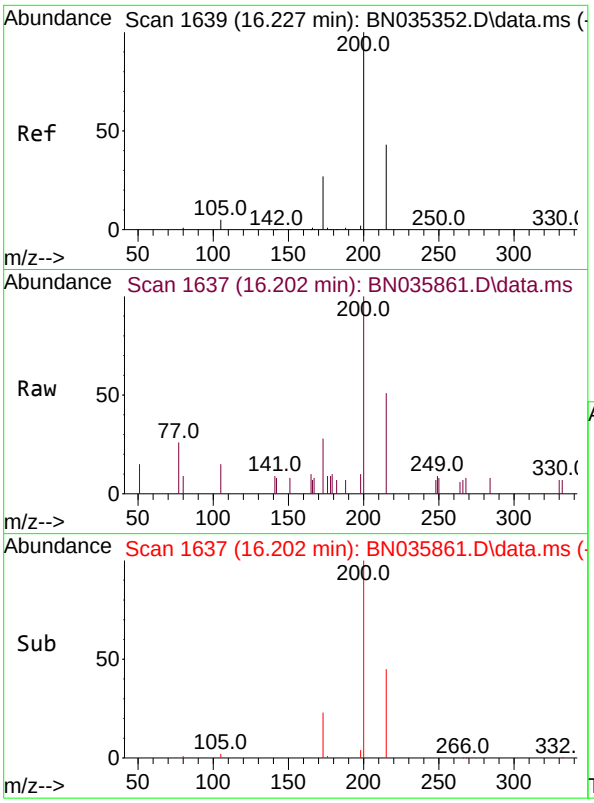


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8



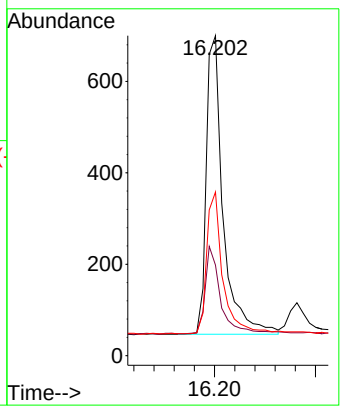


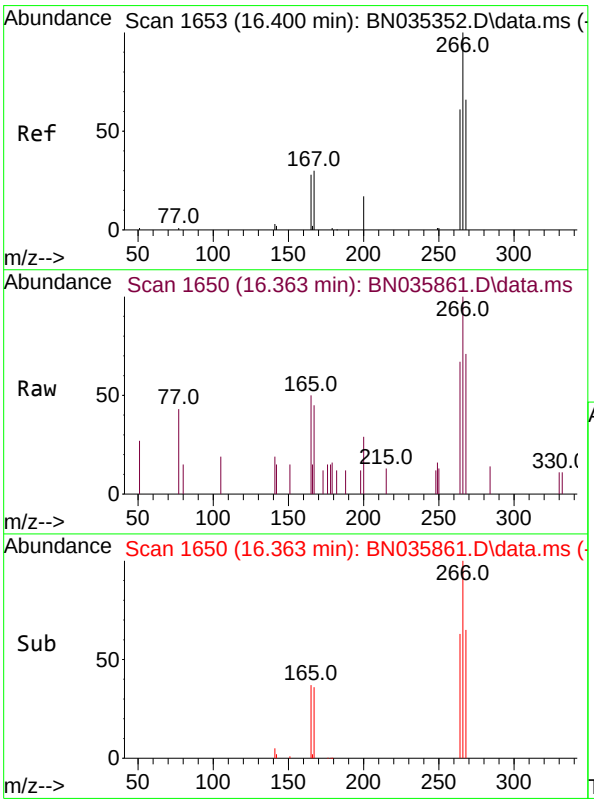
#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1507

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	51.1	36.9	55.3

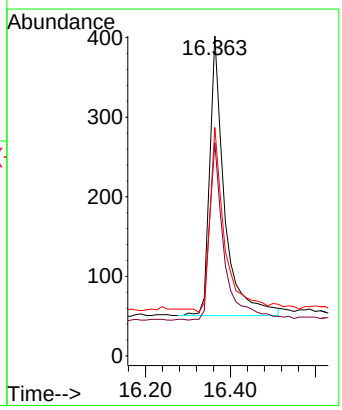


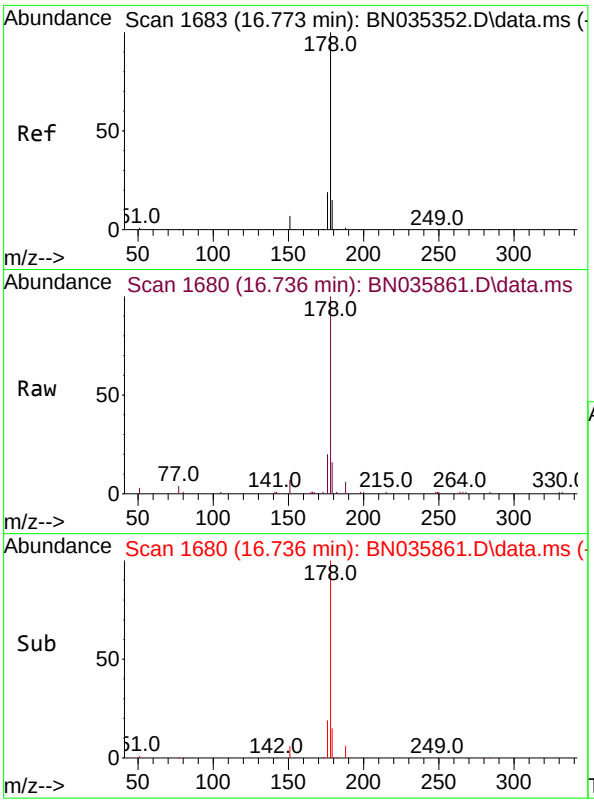


#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	67.7	43.3	64.9#



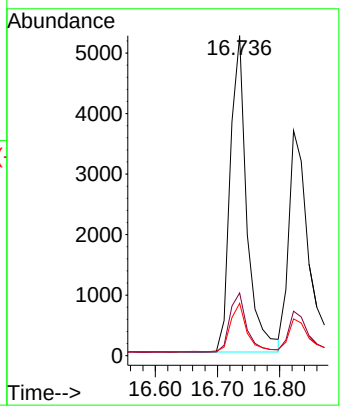


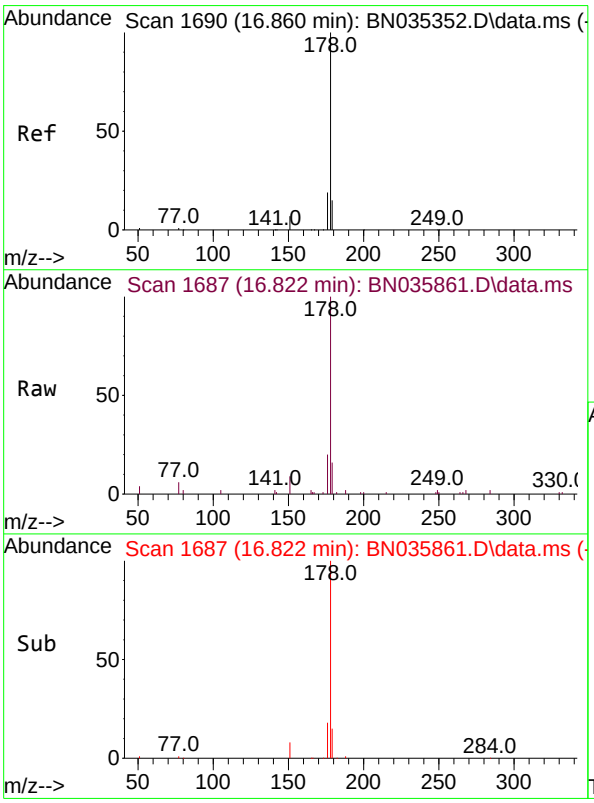
#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9697

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.3	12.3	18.5

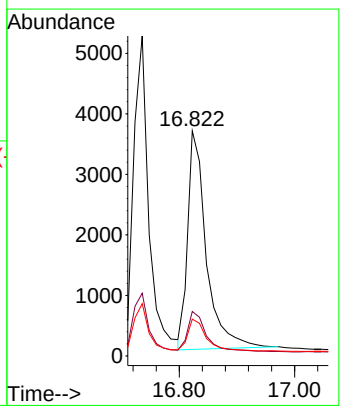


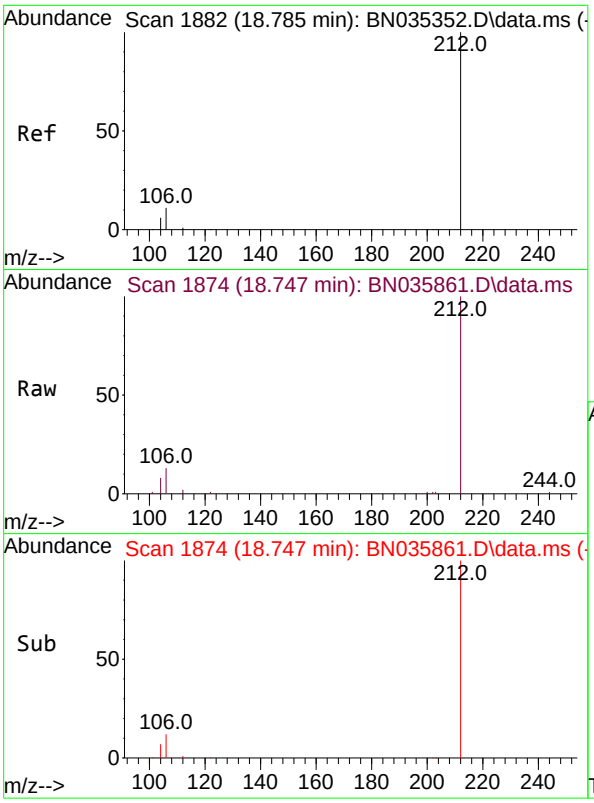


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8



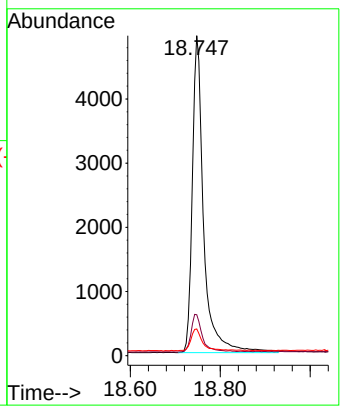


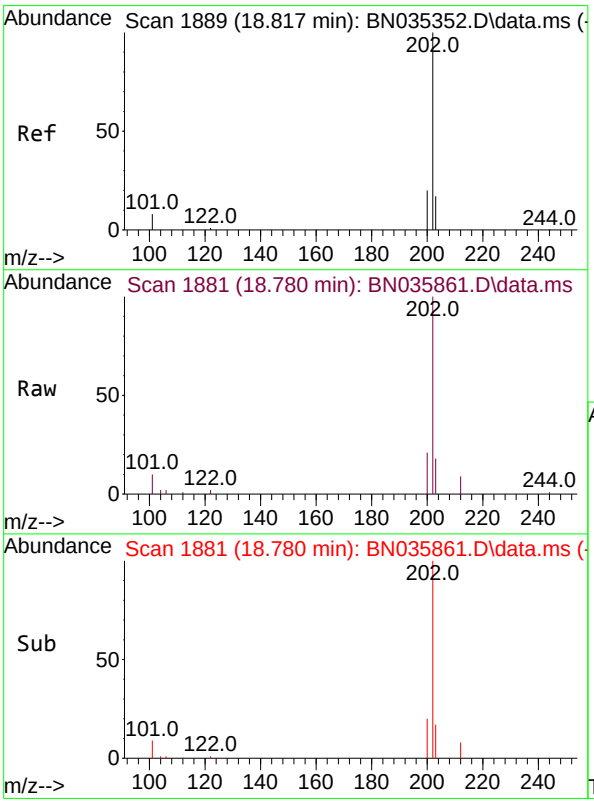
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 8643

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9

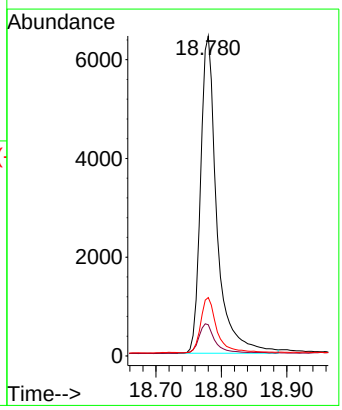


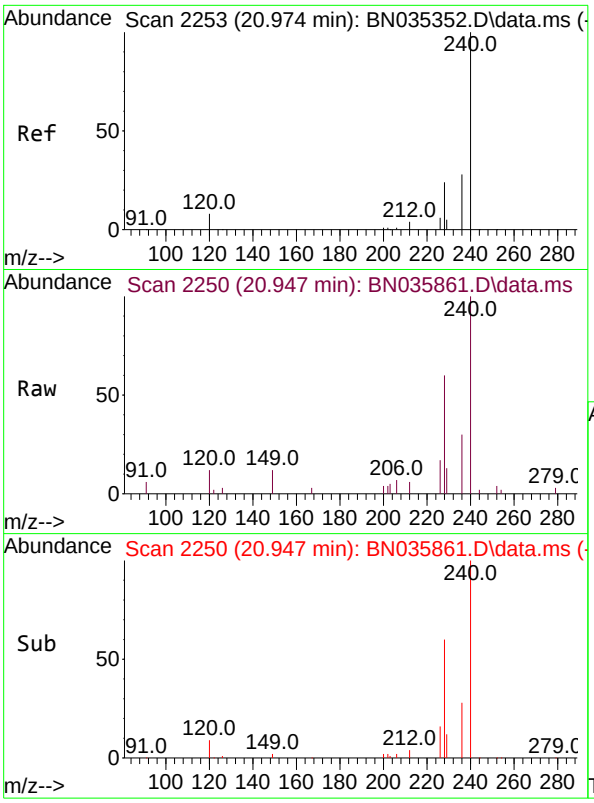


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.4	11.0
203	17.4	13.7	20.5



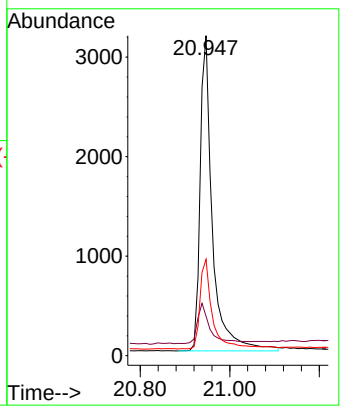


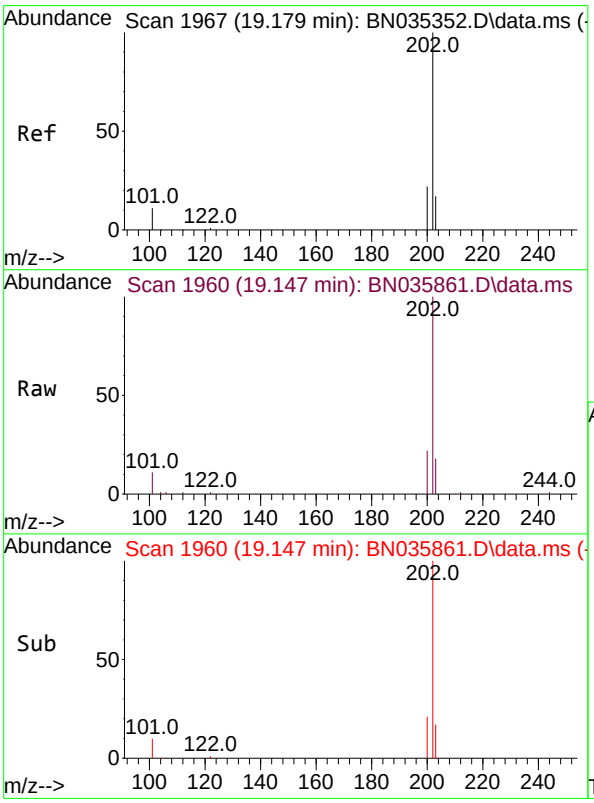
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 6021

Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.9	11.9#
236	30.1	22.9	34.3

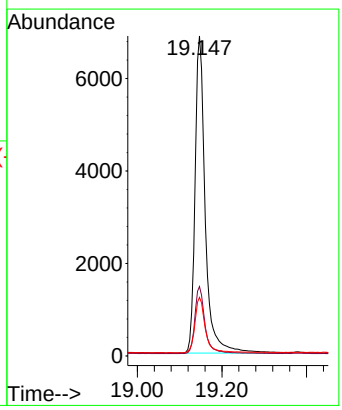


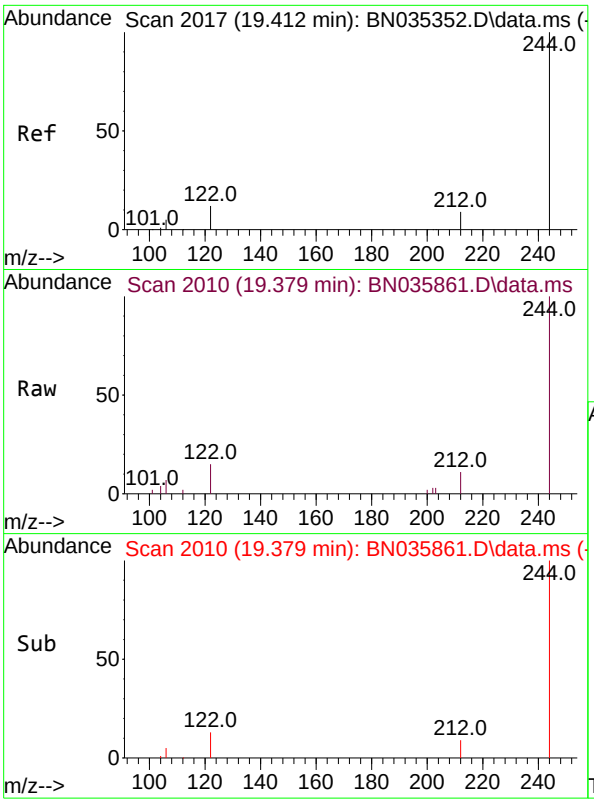


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5



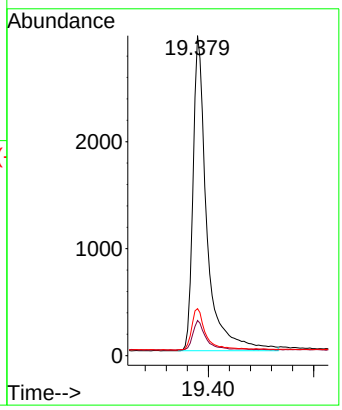


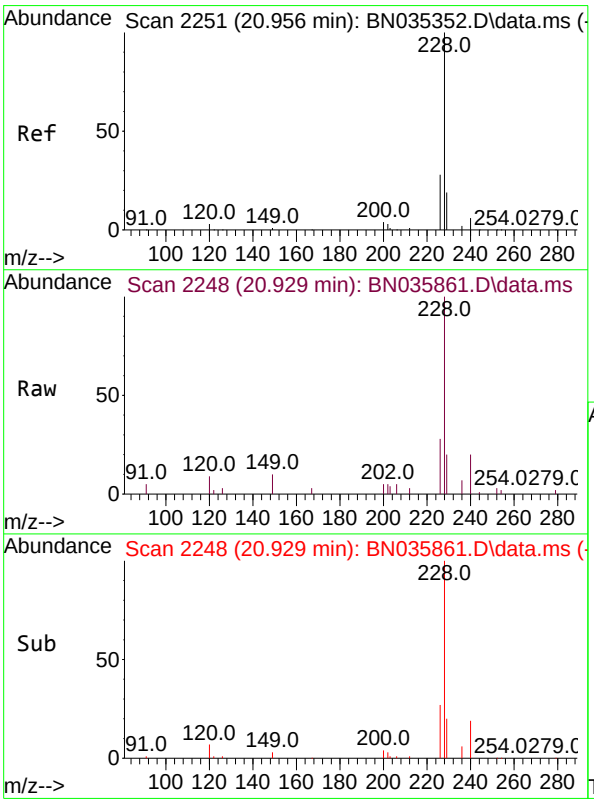
#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5407

Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

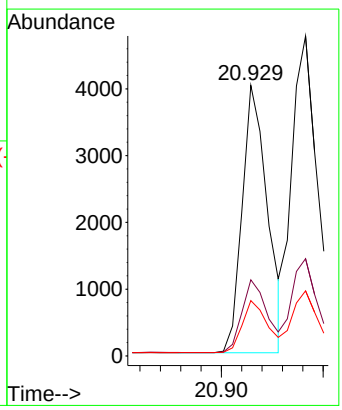


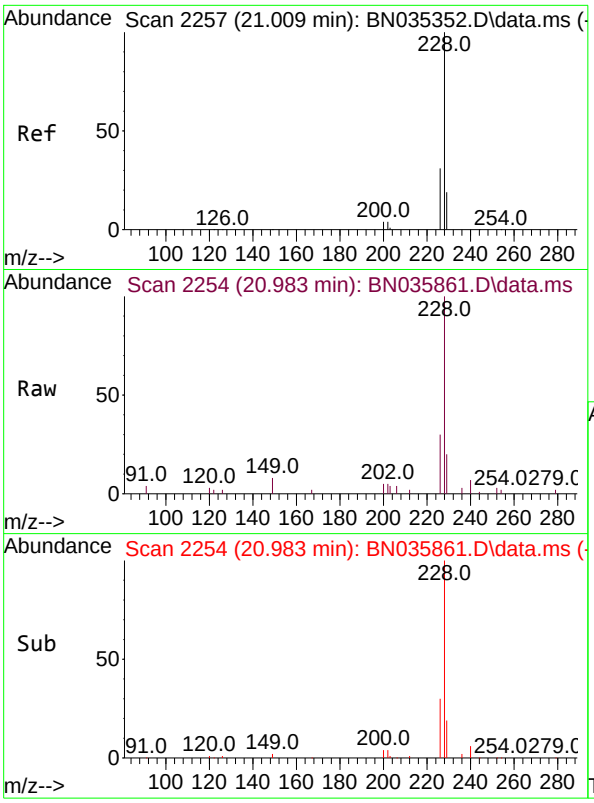


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8



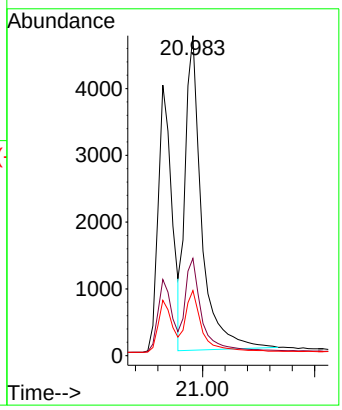


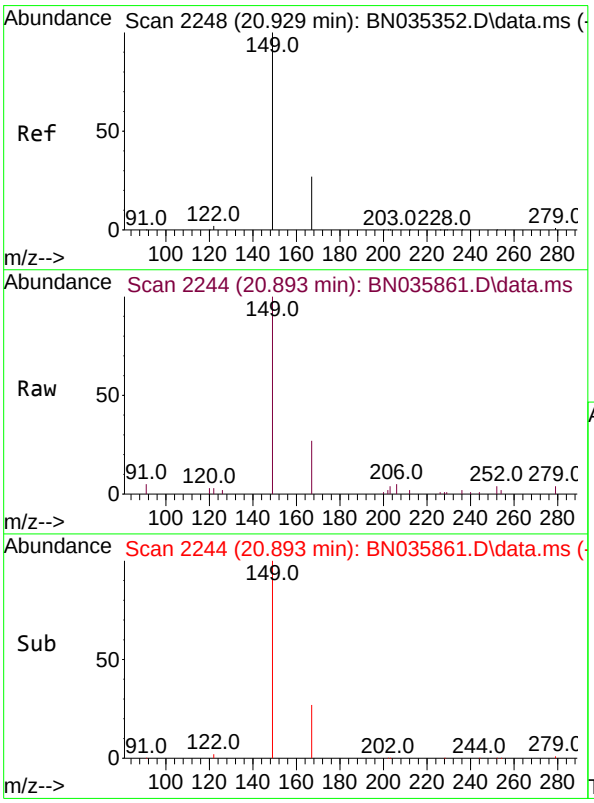
#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 9578

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.3	15.9	23.9

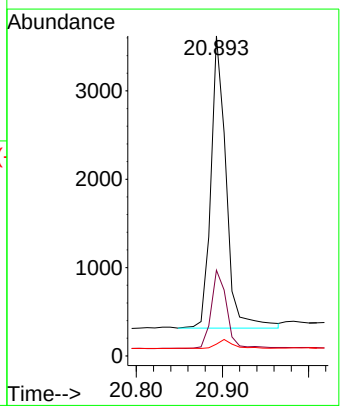


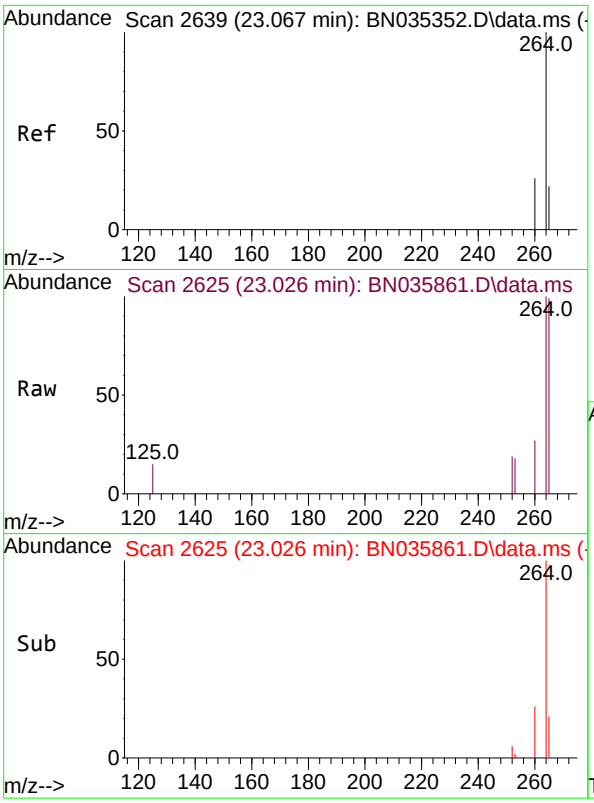


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.2	2.7	4.1



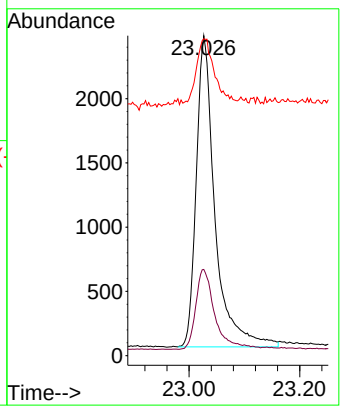


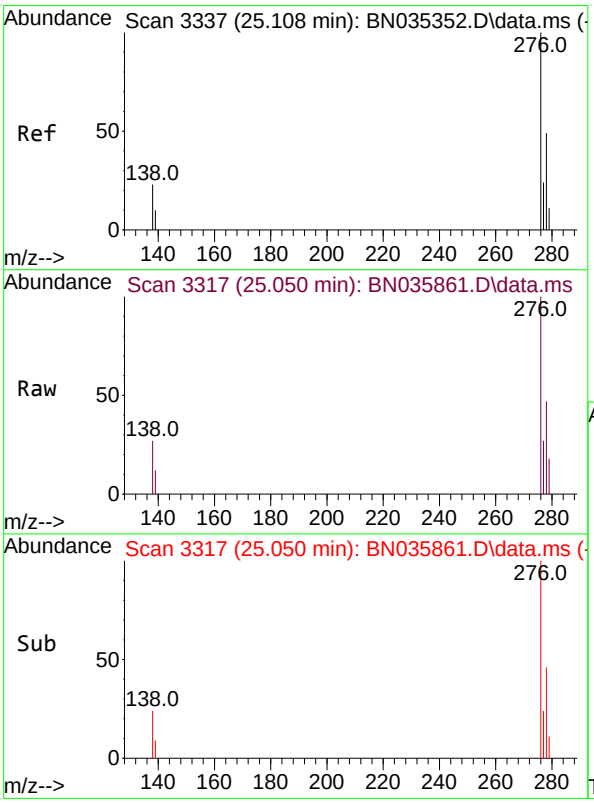
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5699

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	99.1	40.2	60.4#

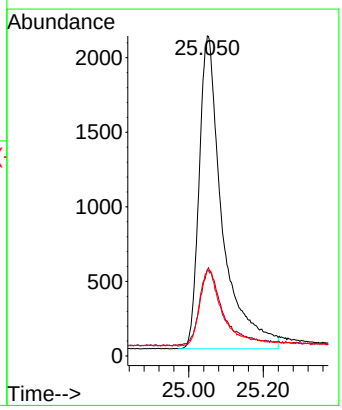


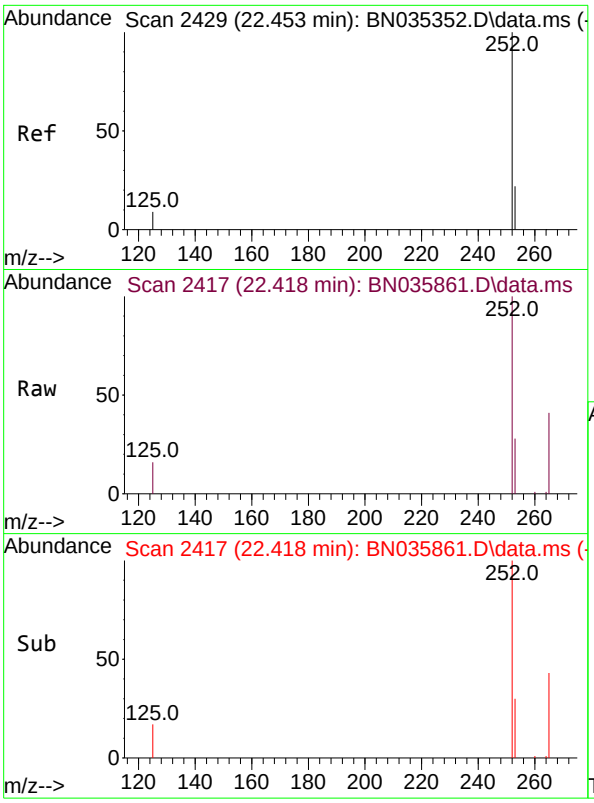


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	23.4	19.8	29.6



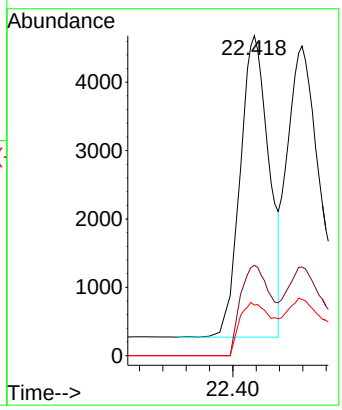


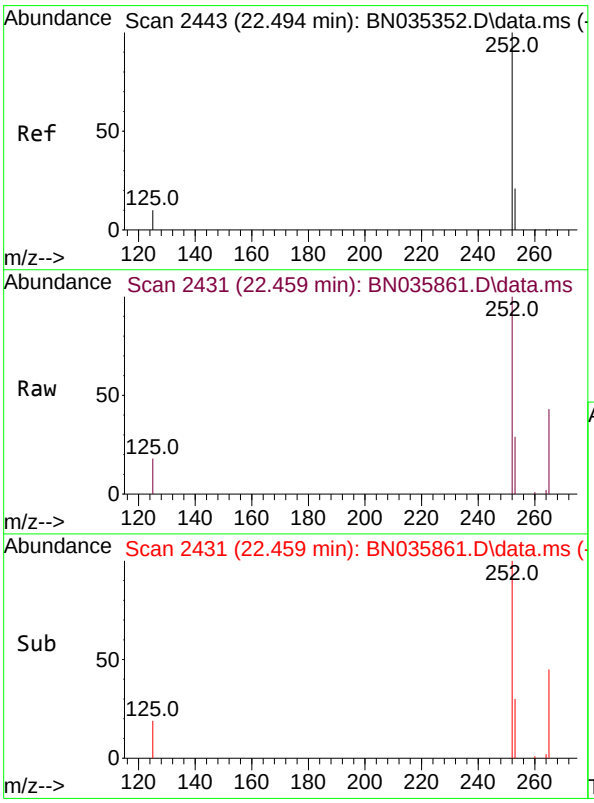
#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 11803

Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.6	29.4
125	15.8	9.6	14.4#

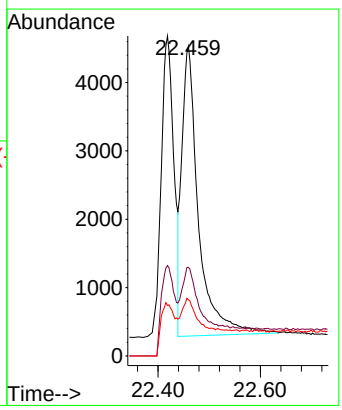


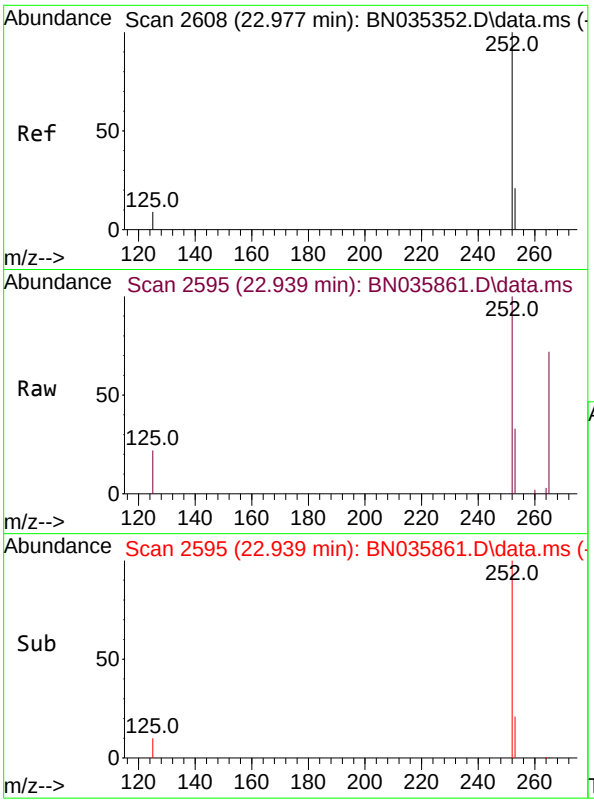


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.5	29.3
125	18.2	10.2	15.4#



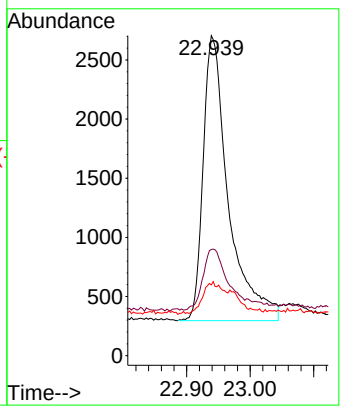


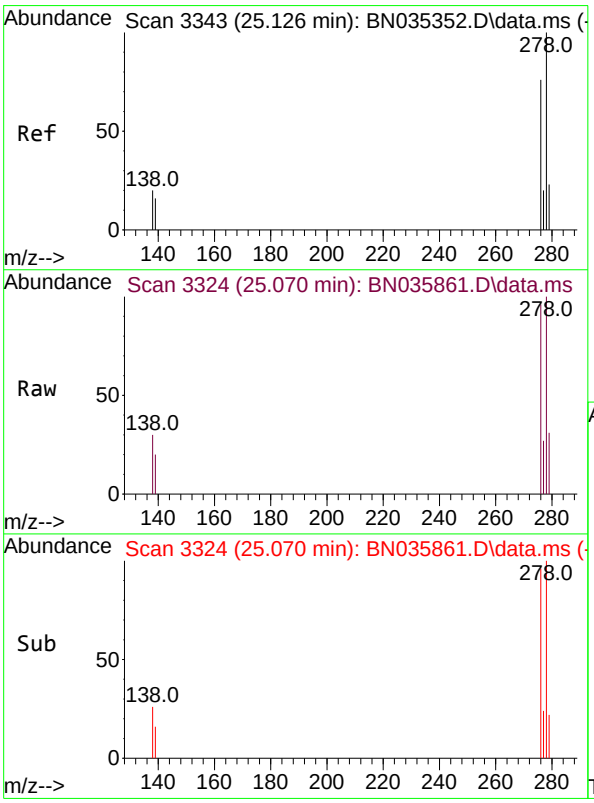
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6641

Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#

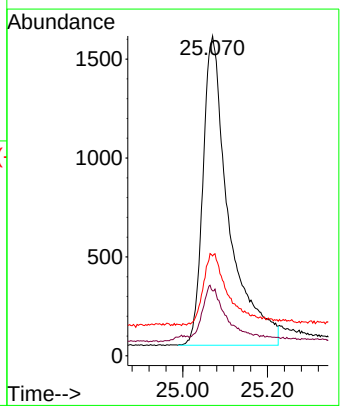


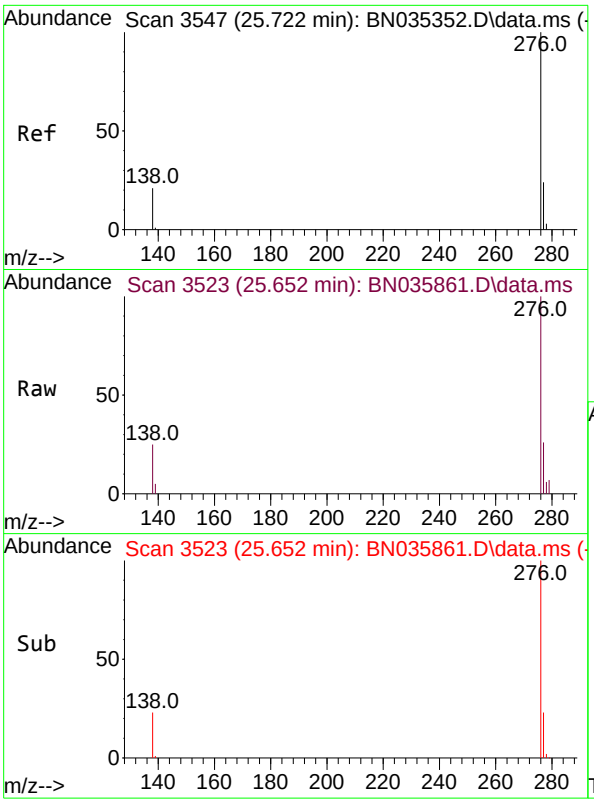


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#





#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8300

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	25.5	17.8	26.8