

Cover Page

Order ID : P5376

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

P5376-01
P5376-02
P5376-03
P5376-04
P5376-05
P5376-06
P5376-07
P5376-08
P5376-09
P5376-10
P5376-11
P5376-12
P5376-13
P5376-14
P5376-15
P5376-16
P5376-17
P5376-18
P5376-19
P5376-20
P5376-21

Client Sample Number

TT205S1-20241218
TT150S1-20241218
RE115D2-20241218
TT149S1-20241218
DUP-07-20241218
TT174I1-20241218
RW10-MW01S-20241218
RW10-MW01S-20241218MS
RW10-MW01S-20241218MSD
RW10-MW01D-20241218
RW10A-MW01S-20241218
RW10A-MW01I-20241218
RE117D2-20241218
TT161S1-20241219
TT162S1-20241219
RW11-MW01S-20241219
RW11-MW01I-20241219
TT119S1-20241219
TT188S1-20241219
FB03-20241219
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: 12/31/2024

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 # P5376

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

21 Water samples were received on 12/20/2024.

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

TT205S1-20241218 [Terphenyl-d14 - 148%],

TT150S1-20241218 [Terphenyl-d14 - 134%],

RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%],

TT149S1-20241218 [Terphenyl-d14 - 138%],

DUP-07-20241218 [Terphenyl-d14 - 144%],

TT174I1-20241218 [Terphenyl-d14 - 143%],

RW10-MW01S-20241218 [Terphenyl-d14 - 137%],

RW10A-MW01I-20241218 [Terphenyl-d14 - 134%],

RE117D2-20241218 [Terphenyl-d14 - 141%],

TT161S1-20241219 [Terphenyl-d14 - 140%],

TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],

TT119S1-20241219 [Terphenyl-d14 - 133%],

TT188S1-20241219 [Terphenyl-d14 - 142%],

FB03-20241219 [Terphenyl-d14 - 143%], and

PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required.

The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is 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 BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035830.D met the requirements except for 1,4-Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample RE115D2-20241218 was diluted due to high concentration.

E. Additional Comments:

The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds.

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

The not QT review data is reported in the Miscellaneous.

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



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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_____

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 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: P5376

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.		✓	
The Initial Calibration met the requirements . The Continuous Calibration File ID BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken. The Continuous Calibration File ID BN035830.D met the requirements except for 1,4- Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. . The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.			
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 TT205S1-20241218 [Terphenyl-d14 - 148%], TT150S1-20241218 [Terphenyl-d14 - 134%], RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%], TT149S1-20241218 [Terphenyl-d14 - 138%], DUP-07-20241218 [Terphenyl-d14 - 144%], TT174I1-20241218 [Terphenyl-d14 - 143%], RW10-MW01S-20241218 [Terphenyl-d14 - 137%], RW10A-MW01I-20241218 [Terphenyl-d14 - 134%], RE117D2-20241218 [Terphenyl-d14 - 141%], TT161S1-20241219 [Terphenyl-d14 - 140%], TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%], TT119S1-20241219 [Terphenyl-d14 - 133%], TT188S1-20241219 [Terphenyl-d14 - 142%], FB03-20241219 [Terphenyl-d14 - 143%], and PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.			
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 {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required. The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is 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:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

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

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

(CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds. Sample RE115D2-20241218 was diluted due to high concentration.

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

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5376

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 Custody

✓

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: 12/31/2024

LAB CHRONICLE

OrderID:	P5376	OrderDate:	12/20/2024 3:08:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	N23,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5376-01	TT205S1-20241218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/26/24	12/20/24
P5376-02	TT150S1-20241218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-03	RE115D2-20241218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-03DL	RE115D2-20241218D L	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/26/24	12/20/24
P5376-04	TT149S1-20241218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-05	DUP-07-20241218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-06	TT174I1-20241218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-07	RW10-MW01S-20241 218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-10	RW10-MW01D-20241 218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24
P5376-11	RW10A-MW01S-2024 1218	Water	SVOC-SIMGroup1	8270-Modified	12/18/24	12/23/24	12/24/24	12/20/24

LAB CHRONICLE

P5376-12	RW10A-MW01I-20241218	Water			12/18/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24
P5376-13	RE117D2-20241218	Water			12/18/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24
P5376-14	TT161S1-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24
P5376-15	TT162S1-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24
P5376-16	RW11-MW01S-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24
P5376-17	RW11-MW01I-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24
P5376-18	TT119S1-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/25/24
P5376-19	TT188S1-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24
P5376-20	FB03-20241219	Water			12/19/24		12/20/24
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/25/24



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

Hit Summary Sheet SW-846

SDG No.: P5376
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	TT205S1-20241218								
P5376-01	TT205S1-20241218	WATER	1,4-Dioxane	0.380		0.07	0.2	0.2	ug/L
			Total Svoc :			0.38			
			Total Concentration:			0.38			
Client ID :	TT150S1-20241218								
P5376-02	TT150S1-20241218	WATER	1,4-Dioxane	0.240		0.07	0.2	0.2	ug/L
			Total Svoc :			0.24			
			Total Concentration:			0.24			
Client ID :	RE115D2-20241218								
P5376-03	RE115D2-20241218	WATER	1,4-Dioxane	7.600	E	0.07	0.21	0.21	ug/L
			Total Svoc :			7.60			
			Total Concentration:			7.60			
Client ID :	RE115D2-20241218DL								
P5376-03DL	RE115D2-20241218DL	WATER	1,4-Dioxane	10.300	D	0.35	1	1	ug/L
			Total Svoc :			10.30			
			Total Concentration:			10.30			
Client ID :	TT149S1-20241218								
P5376-04	TT149S1-20241218	WATER	1,4-Dioxane	0.280		0.07	0.21	0.21	ug/L
			Total Svoc :			0.28			
			Total Concentration:			0.28			
Client ID :	DUP-07-20241218								
P5376-05	DUP-07-20241218	WATER	1,4-Dioxane	0.270		0.07	0.2	0.2	ug/L
			Total Svoc :			0.27			
			Total Concentration:			0.27			
Client ID :	TT174I1-20241218								
P5376-06	TT174I1-20241218	WATER	1,4-Dioxane	0.800		0.07	0.2	0.2	ug/L
			Total Svoc :			0.80			
			Total Concentration:			0.80			
Client ID :	RW10-MW01S-20241218								
P5376-07	RW10-MW01S-20241218	WATER	1,4-Dioxane	0.100	JM	0.07	0.2	0.2	ug/L
			Total Svoc :			0.10			
			Total Concentration:			0.10			
Client ID :	RW10A-MW01S-20241218								
P5376-11	RW10A-MW01S-20241218	WATER	1,4-Dioxane	0.150	J	0.07	0.21	0.21	ug/L
			Total Svoc :			0.15			

Hit Summary Sheet SW-846

SDG No.: P5376
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	0.15					
Client ID :	TT161S1-20241219								
P5376-14	TT161S1-20241219	WATER	1,4-Dioxane	0.330		0.07	0.2	0.2	ug/L
			Total Svoc :	0.33					
			Total Concentration:	0.33					
Client ID :	TT162S1-20241219								
P5376-15	TT162S1-20241219	WATER	1,4-Dioxane	0.340		0.07	0.2	0.2	ug/L
			Total Svoc :	0.34					
			Total Concentration:	0.34					
Client ID :	RW11-MW01S-20241219								
P5376-16	RW11-MW01S-20241219	WATER	1,4-Dioxane	0.160	J	0.07	0.2	0.2	ug/L
			Total Svoc :	0.16					
			Total Concentration:	0.16					
Client ID :	TT188S1-20241219								
P5376-19	TT188S1-20241219	WATER	1,4-Dioxane	0.170	J	0.07	0.2	0.2	ug/L
			Total Svoc :	0.17					
			Total Concentration:	0.17					



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5376-01	TT205S1-20241218	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.43	108		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.59	148	*	58	132
P5376-02	TT150S1-20241218	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.41	101		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
P5376-03	RE115D2-20241218	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
P5376-03DL	RE115D2-20241218DL	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.48	120		30	150
		Nitrobenzene-d5	0.4	0.53	131	*	55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.66	164	*	58	132
P5376-04	TT149S1-20241218	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P5376-05	DUP-07-20241218	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.58	144	*	58	132
P5376-06	TT174I1-20241218	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
P5376-07	RW10-MW01S-20241218	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
P5376-08MS	RW10-MW01S-20241218MS	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.42	106		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5376-09MSD	RW10-MW01S-20241218MSD	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
P5376-10	RW10-MW01D-20241218	2-Methylnaphthalene-d10	0.4	0.34	84		30	150

Surrogate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5376-10	RW10-MW01D-20241218	Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
P5376-11	RW10A-MW01S-20241218	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
P5376-12	RW10A-MW01I-20241218	Terphenyl-d14	0.4	0.52	130		58	132
		2-Methylnaphthalene-d10	0.4	0.37	94		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.42	106		55	111
P5376-13	RE117D2-20241218	2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
		2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
P5376-14	TT161S1-20241219	Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.56	141	*	58	132
		2-Methylnaphthalene-d10	0.4	0.36	91		30	150
P5376-15	TT162S1-20241219	Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
P5376-16	RW11-MW01S-20241219	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
P5376-17	RW11-MW01I-20241219	Terphenyl-d14	0.4	0.54	134	*	58	132
		2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
P5376-18	TT119S1-20241219	2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
		2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
P5376-19	TT188S1-20241219	Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
		2-Methylnaphthalene-d10	0.4	0.34	84		30	150
P5376-20	FB03-20241219	Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
		2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.44	111		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
		2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150

Surrogate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5376-20	FB03-20241219	Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
PB165828BL	PB165828BL	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
PB165828BS	PB165828BS	2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.48	120		58	132
		2-Methylnaphthalene-d10	0.4	0.47	116		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.48	119		58	132



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P5376-08MS		Client Sample ID: RW10-MW01S-20241218MS						DataFile: BN035821.D			
1,4-Dioxane	0.4	0.10	0.31	ug/L	53	*			70	130	



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P5376-09MSD		Client Sample ID: RW10-MW01S-20241218MSD						DataFile: BN035822.D			
1,4-Dioxane	0.41	0.10	0.31	ug/L	51	*	4		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN035852.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165828BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165828BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: P5376

SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035812.D

Lab Sample ID: PB165828BL

Instrument ID: BNA_N

Date Extracted: 12/23/2024

Matrix: (soil/water) Water

Date Analyzed: 12/24/2024

Level: (low/med) LOW

Time Analyzed: 09:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RW11-MW01I-20241219	P5376-17	BN035834.D	12/24/2024
TT119S1-20241219	P5376-18	BN035835.D	12/25/2024
FB03-20241219	P5376-20	BN035837.D	12/25/2024
TT162S1-20241219	P5376-15	BN035847.D	12/26/2024
TT188S1-20241219	P5376-19	BN035848.D	12/26/2024
TT205S1-20241218	P5376-01	BN035849.D	12/26/2024
PB165828BS	PB165828BS	BN035852.D	12/26/2024
TT150S1-20241218	P5376-02	BN035815.D	12/24/2024
RE115D2-20241218	P5376-03	BN035816.D	12/24/2024
TT149S1-20241218	P5376-04	BN035817.D	12/24/2024
DUP-07-20241218	P5376-05	BN035818.D	12/24/2024
TT174I1-20241218	P5376-06	BN035819.D	12/24/2024
RW10-MW01S-20241218	P5376-07	BN035820.D	12/24/2024
RW10-MW01S-20241218MS	P5376-08MS	BN035821.D	12/24/2024
RW10-MW01S-20241218MSD	P5376-09MSD	BN035822.D	12/24/2024
RW10-MW01D-20241218	P5376-10	BN035823.D	12/24/2024
RW10A-MW01S-20241218	P5376-11	BN035824.D	12/24/2024
RW10A-MW01I-20241218	P5376-12	BN035825.D	12/24/2024
RE117D2-20241218	P5376-13	BN035826.D	12/24/2024
TT161S1-20241219	P5376-14	BN035827.D	12/24/2024
RW11-MW01S-20241219	P5376-16	BN035833.D	12/24/2024

COMMENTS:



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5376 SDG NO.: P5376Lab File ID: BN035349.DDFTPP Injection Date: 11/27/2024Instrument ID: BNA_NDFTPP 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
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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5376SDG NO.: P5376Lab File ID: BN035810.DDFTPP Injection Date: 12/24/2024Instrument ID: BNA_NDFTPP 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
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
PB165828BL	PB165828BL	BN035812.D	12/24/2024	09:35
TT150S1-20241218	P5376-02	BN035815.D	12/24/2024	11:21
RE115D2-20241218	P5376-03	BN035816.D	12/24/2024	11:57
TT149S1-20241218	P5376-04	BN035817.D	12/24/2024	12:33
DUP-07-20241218	P5376-05	BN035818.D	12/24/2024	13:08
TT174I1-20241218	P5376-06	BN035819.D	12/24/2024	13:44
RW10-MW01S-20241218	P5376-07	BN035820.D	12/24/2024	14:19
RW10-MW01S-20241218MS	P5376-08MS	BN035821.D	12/24/2024	14:55
RW10-MW01S-20241218MSD	P5376-09MSD	BN035822.D	12/24/2024	15:31
RW10-MW01D-20241218	P5376-10	BN035823.D	12/24/2024	16:06
RW10A-MW01S-20241218	P5376-11	BN035824.D	12/24/2024	16:42
RW10A-MW01I-20241218	P5376-12	BN035825.D	12/24/2024	17:18
RE117D2-20241218	P5376-13	BN035826.D	12/24/2024	17:53
TT161S1-20241219	P5376-14	BN035827.D	12/24/2024	18:29
SSTDCCC0.4EC	SSTDCCC0.4	BN035828.D	12/24/2024	19:05



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5376 SDG NO.: P5376Lab File ID: BN035829.DDFTPP Injection Date: 12/24/2024Instrument ID: BNA_NDFTPP Injection Time: 19:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	32.7
70	Less than 2.0% of mass 69	0.2 (0.5) 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	6.6
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.7 (19.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035830.D	12/24/2024	20:55
RW11-MW01S-20241219	P5376-16	BN035833.D	12/24/2024	23:18
RW11-MW01I-20241219	P5376-17	BN035834.D	12/24/2024	23:53
TT119S1-20241219	P5376-18	BN035835.D	12/25/2024	00:29
FB03-20241219	P5376-20	BN035837.D	12/25/2024	01:40
SSTDCCC0.4EC	SSTDCCC0.4	BN035843.D	12/25/2024	05:14



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: P5376 SDG NO.: P5376Lab File ID: BN035844.DDFTPP Injection Date: 12/26/2024Instrument ID: BNA_NDFTPP 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
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
TT162S1-20241219	P5376-15	BN035847.D	12/26/2024	11:20
TT188S1-20241219	P5376-19	BN035848.D	12/26/2024	11:56
TT205S1-20241218	P5376-01	BN035849.D	12/26/2024	12:31
PB165828BS	PB165828BS	BN035852.D	12/26/2024	14:19
RE115D2-20241218DL	P5376-03DL	BN035854.D	12/26/2024	15:30
SSTDCCC0.4EC	SSTDCCC0.4	BN035861.D	12/26/2024	19:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

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 TT150S1-20241218	3146	7.26	7086	10.01	4334	13.93
02 RE115D2-20241218	3275	7.26	7772	10.01	4979	13.93
03 TT149S1-20241218	2882	7.26	6877	10.01	4352	13.93
04 DUP-07-20241218	3045	7.26	7417	10.01	4769	13.93
05 TT174I1-20241218	3689	7.26	8470	10.01	5265	13.92
06 RW10-MW01S-20241218	3143	7.26	7176	10.01	4458	13.92
07 RW10-MW01S-20241218MS	3131	7.26	7403	10.00	4434	13.91
08 RW10-MW01S-20241218MSD	3187	7.26	7953	10.00	4887	13.91
09 RW10-MW01D-20241218	3352	7.26	8445	10.01	5463	13.93
10 RW10A-MW01S-20241218	3542	7.26	8575	10.01	5533	13.93
11 RW10A-MW01I-20241218	3186	7.26	7275	10.01	4568	13.92
12 RE117D2-20241218	3378	7.26	7925	10.01	4973	13.92
13 TT161S1-20241219	3265	7.26	7883	10.01	4842	13.92
14 PB165828BL	3197	7.26	6952	10.02	4346	13.94

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

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	TT150S1-20241218	8132	16.70	6728	20.95	6588	23.03
02	RE115D2-20241218	10106	16.70	8871	20.95	8758	23.03
03	TT149S1-20241218	9250	16.70	8129	20.95	8126	23.03
04	DUP-07-20241218	10054	16.70	8730	20.95	8948	23.03
05	TT174I1-20241218	9421	16.70	7347	20.95	7210	23.03
06	RW10-MW01S-20241218	8922	16.70	7054	20.95	6962	23.03
07	RW10-MW01S-20241218MS	9040	16.69	8798	20.95	9479	23.03
08	RW10-MW01S-20241218MSD	10068	16.69	9501	20.94	9990	23.02
09	RW10-MW01D-20241218	11816	16.70	9968	20.95	9568	23.03
10	RW10A-MW01S-20241218	11307	16.70	9270	20.95	9119	23.03
11	RW10A-MW01I-20241218	9048	16.70	6943	20.95	6791	23.03
12	RE117D2-20241218	10383	16.70	8532	20.95	8295	23.03
13	TT161S1-20241219	9395	16.70	7091	20.95	6735	23.03
14	PB165828BL	8099	16.71	6756	20.96	6747	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

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

Lab File ID: BN035830.D Time Analyzed: 20:55

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	3866	7.257	9955	10.00	5956	13.91
UPPER LIMIT	7732	7.757	19910	10.498	11912	14.414
LOWER LIMIT	1933	6.757	4977.5	9.498	2978	13.414
EPA SAMPLE NO.						
01 RW11-MW01S-20241219	3277	7.26	7724	10.01	4815	13.91
02 RW11-MW01I-20241219	3211	7.26	7680	10.01	4788	13.93
03 TT119S1-20241219	3270	7.26	7393	10.01	4622	13.93
04 FB03-20241219	2951	7.26	6785	10.01	4279	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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

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

Lab File ID: BN035830.D Time Analyzed: 20:55

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	11143	16.698	7851	20.947	7870	23.026
UPPER LIMIT	22286	17.198	15702	21.447	15740	23.526
LOWER LIMIT	5571.5	16.198	3925.5	20.447	3935	22.526
EPA SAMPLE NO.						
01 RW11-MW01S-20241219	10024	16.70	8069	20.95	7784	23.03
02 RW11-MW01I-20241219	10028	16.70	8231	20.95	7812	23.03
03 TT119S1-20241219	9153	16.70	7437	20.95	7071	23.03
04 FB03-20241219	8231	16.70	6628	20.95	5858	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

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 TT205S1-20241218	3517	7.26	8324	10.00	5358	13.91
02 RE115D2-20241218DL	2752	7.26	6133	10.01	4189	13.92
03 TT162S1-20241219	3703	7.26	8876	10.00	5154	13.91
04 TT188S1-20241219	3480	7.26	8196	10.01	5304	13.93
05 PB165828BS	4431	7.26	10905	10.00	6427	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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

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 TT205S1-20241218	11302	16.69	8549	20.94	7798	23.02
02 RE115D2-20241218DL	9267	16.70	7345	20.95	6900	23.03
03 TT162S1-20241219	10596	16.69	8138	20.95	8007	23.03
04 TT188S1-20241219	11548	16.70	9719	20.94	9432	23.02
05 PB165828BS	13001	16.69	9257	20.94	9148	23.02

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT205S1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-01	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
BN035849.D	1	12/23/24 13:29	12/26/24 12:31	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	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	0.59	*	58 - 132		148%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3520	7.257				
1146-65-2	Naphthalene-d8	8320	9.999				
15067-26-2	Acenaphthene-d10	5360	13.914				
1517-22-2	Phenanthrene-d10	11300	16.686				
1719-03-5	Chrysene-d12	8550	20.938				
1520-96-3	Perylene-d12	7800	23.021				

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 : BN035849.D
 Acq On : 26 Dec 2024 12:31
 Operator : RC/JU
 Sample : P5376-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT205S1-20241218

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:49 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	3517	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8324	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5358	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11302	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	8549	0.400	ng	#-0.02
35) Perylene-d12	23.021	264	7798	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	846	0.096	ng	-0.01
5) Phenol-d6	6.477	99	442	0.042	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2201m	0.433	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	4536	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	860	0.226	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7437	0.367	ng	-0.02
27) Fluoranthene-d10	18.743	212	12788	0.399	ng	-0.02
31) Terphenyl-d14	19.375	244	9994	0.593	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1289	0.383	ng	95
9) Naphthalene	10.052	128	3939	0.179	ng	96
12) 2-Methylnaphthalene	11.682	142	2490	0.158	ng	98
16) Acenaphthylene	13.625	152	3867	0.172	ng	99
17) Acenaphthene	13.978	154	2493	0.167	ng	99
18) Fluorene	14.983	166	3286	0.154	ng	99
25) Phenanthrene	16.736	178	6290	0.203	ng	99
26) Anthracene	16.823	178	4610	0.164	ng	98
28) Fluoranthene	18.775	202	6981	0.167	ng	99
30) Pyrene	19.142	202	7191	0.228	ng	99
32) Benzo(a)anthracene	20.929	228	4336	0.145	ng	97
33) Chrysene	20.974	228	5151	0.167	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1190	0.101	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.050	276	3640	0.119	ng	99
37) Benzo(b)fluoranthene	22.413	252	5477	0.192	ng	# 75
38) Benzo(k)fluoranthene	22.456	252	4164	0.148	ng	# 73
39) Benzo(a)pyrene	22.933	252	2844	0.121	ng	# 53
40) Dibenzo(a,h)anthracene	25.067	278	2834	0.118	ng	# 70
41) Benzo(g,h,i)perylene	25.652	276	2847	0.113	ng	# 90

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

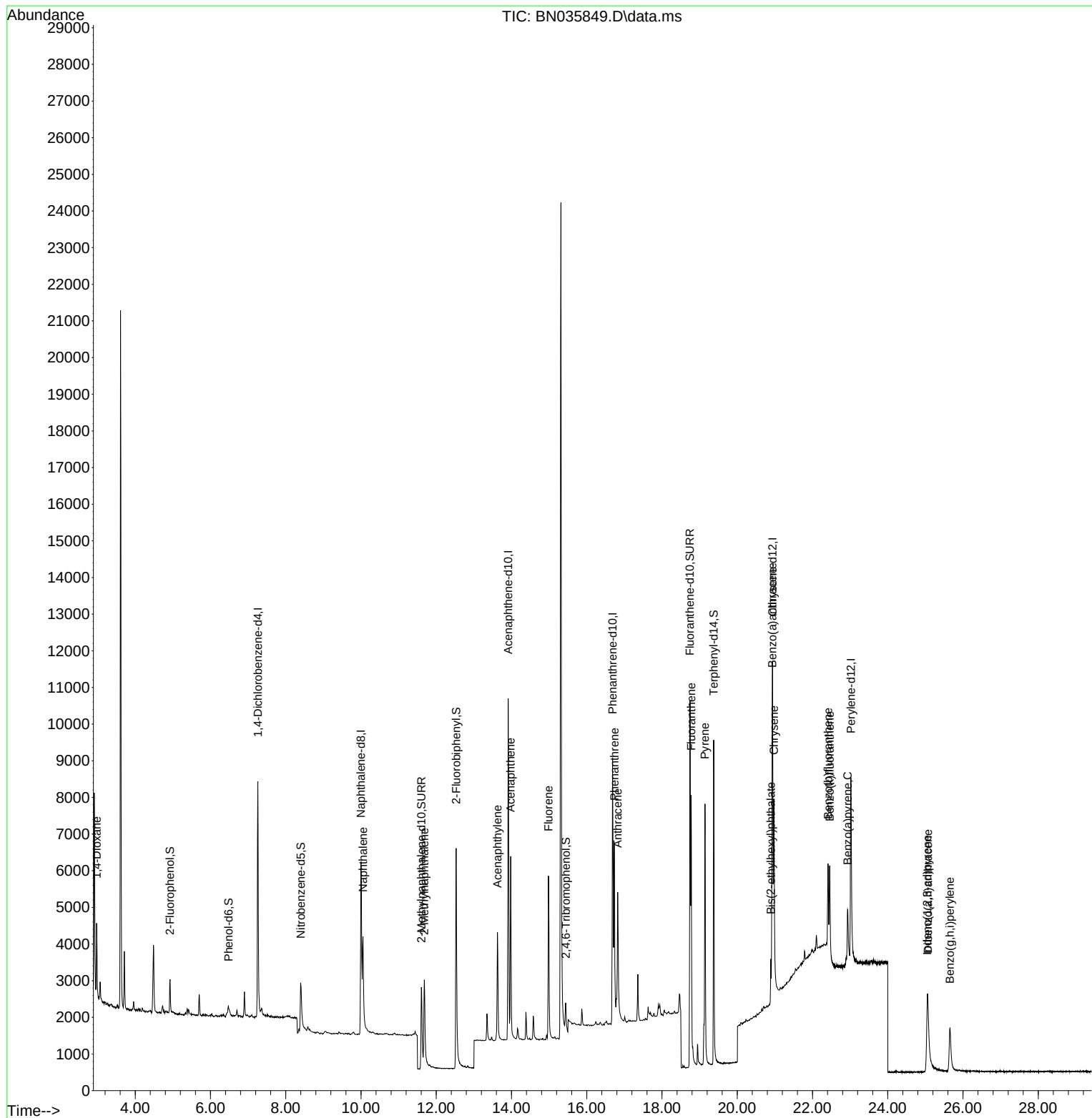
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Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

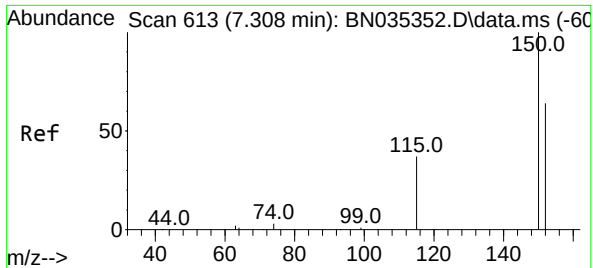
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

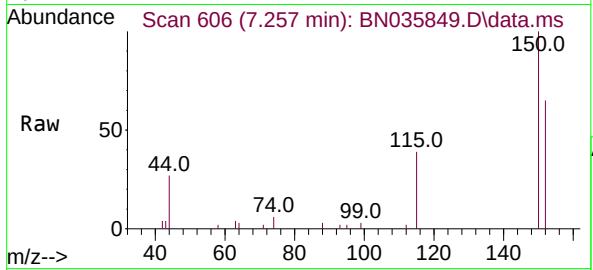
Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

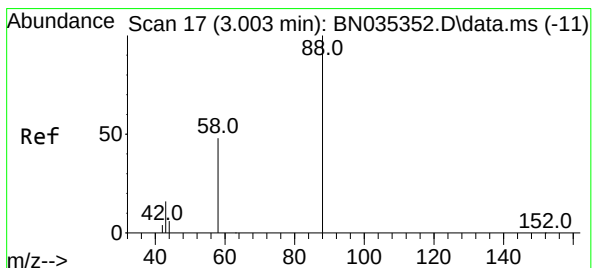
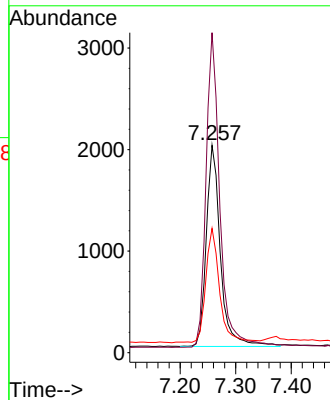
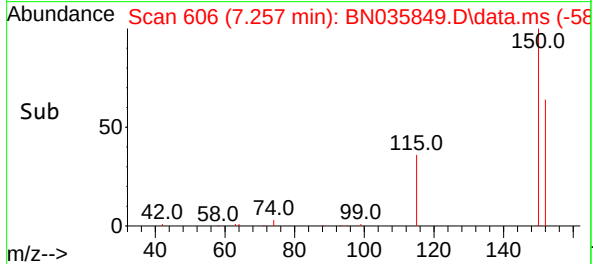
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:152 Resp: 351
Ion Ratio Lower Upper
152 100
150 154.3 124.0 186.0
115 60.0 49.6 74.4

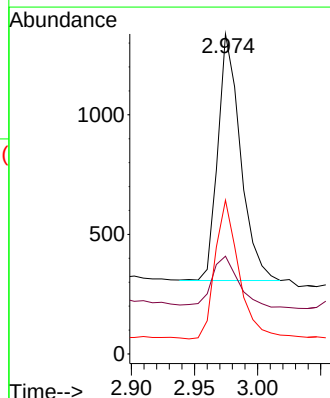
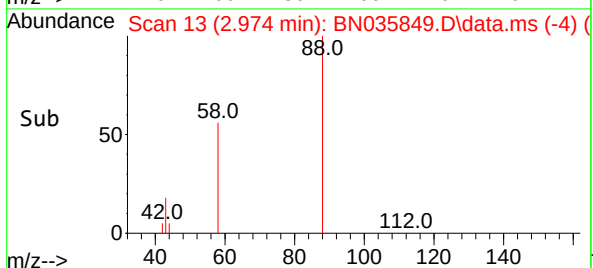
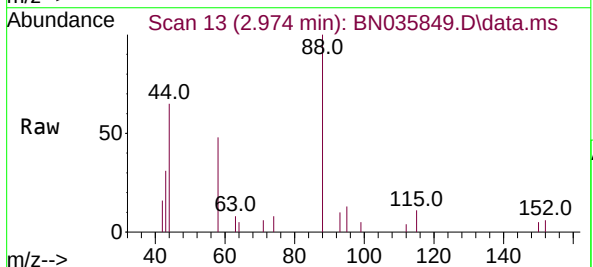
Manual Integrations
APPROVED

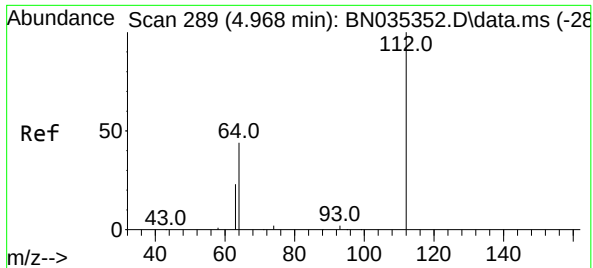
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#2
1,4-Dioxane
Concen: 0.383 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

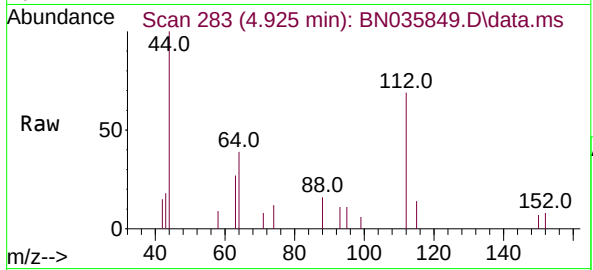
Tgt Ion: 88 Resp: 1289
Ion Ratio Lower Upper
88 100
43 24.2 17.2 25.8
58 59.4 44.5 66.7





#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.925 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

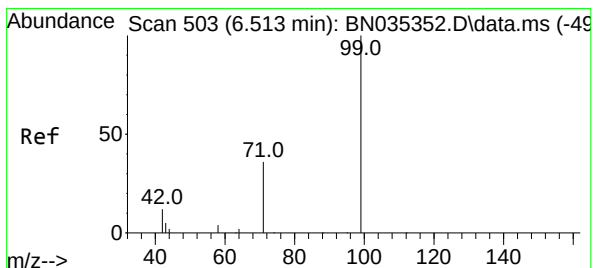
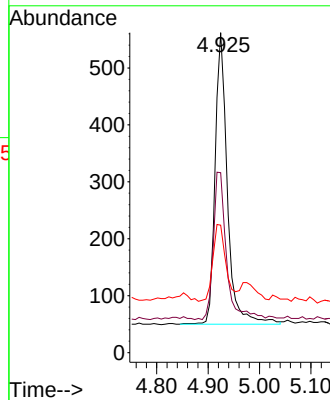
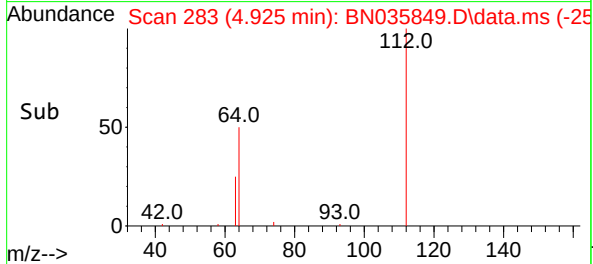
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion: 112 Resp: 840
Ion Ratio Lower Upper
112 100
64 54.4 39.8 59.8
63 27.9 21.0 31.6

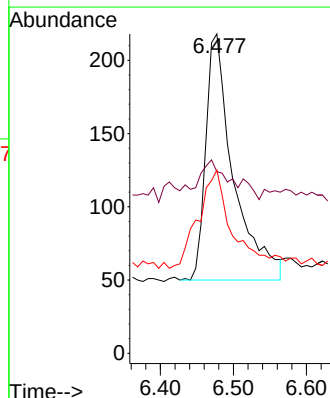
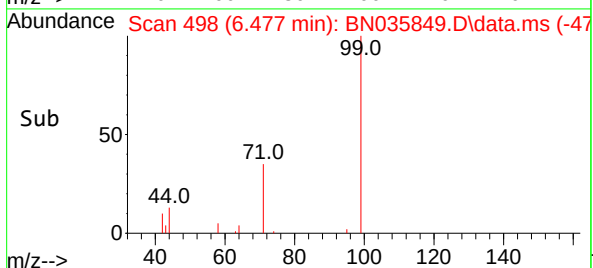
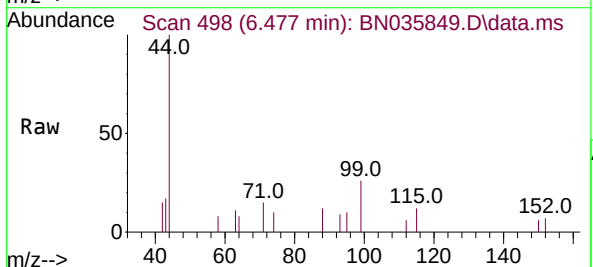
Manual Integrations
APPROVED

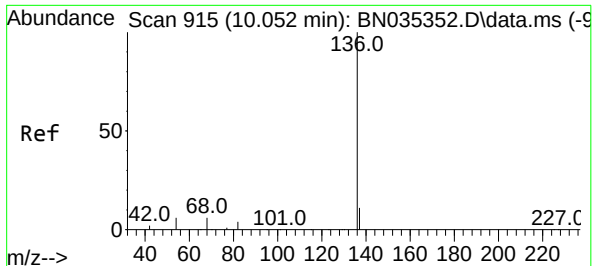
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#5
Phenol-d6
Concen: 0.042 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

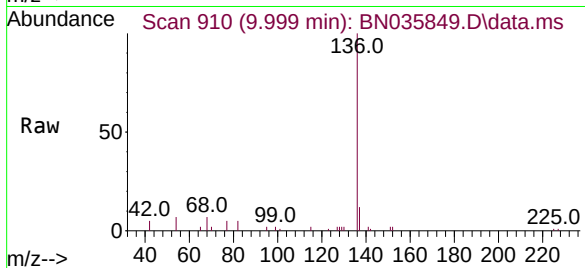
Tgt Ion: 99 Resp: 442
Ion Ratio Lower Upper
99 100
42 11.3 11.4 17.2#
71 51.1 29.3 43.9#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

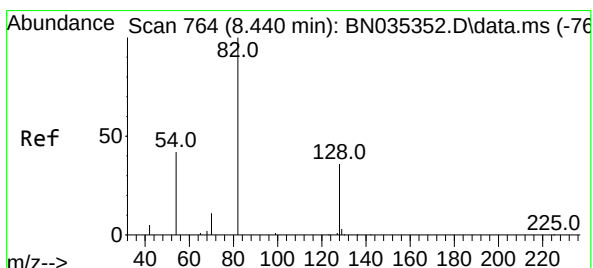
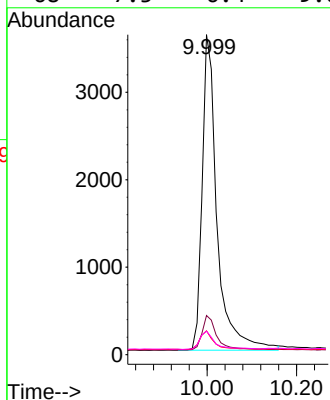
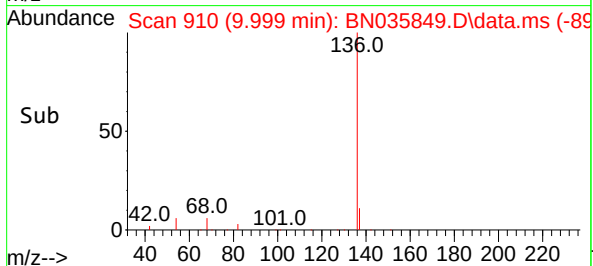
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:136 Resp: 8324
Ion Ratio Lower Upper
136 100
137 12.3 10.2 15.2
54 7.4 6.1 9.1
68 7.3 6.4 9.6

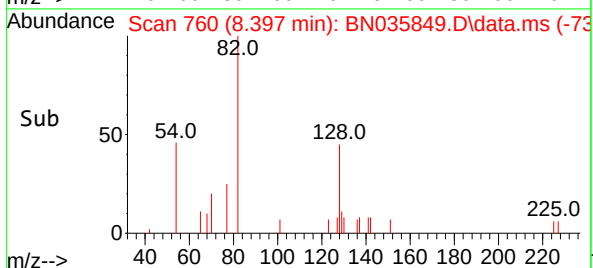
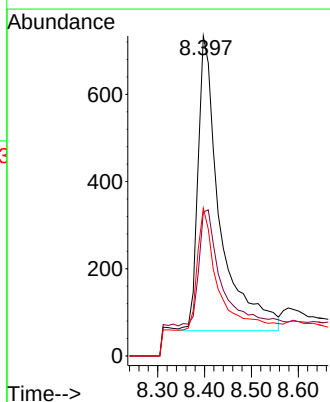
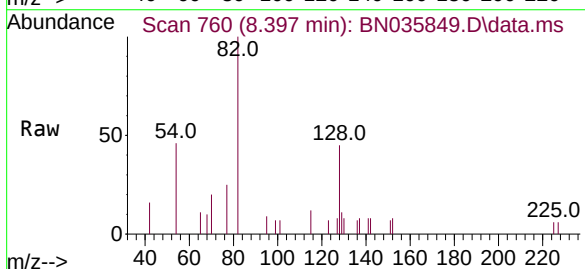
Manual Integrations
APPROVED

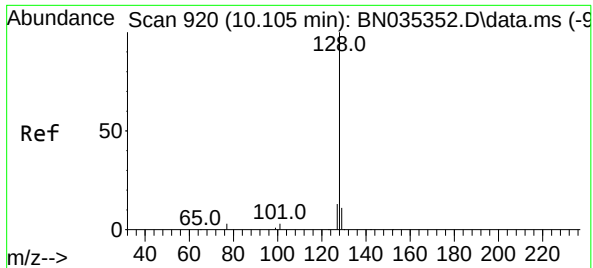
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.433 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 82 Resp: 2201
Ion Ratio Lower Upper
82 100
128 45.0 33.4 50.0
54 46.2 36.7 55.1





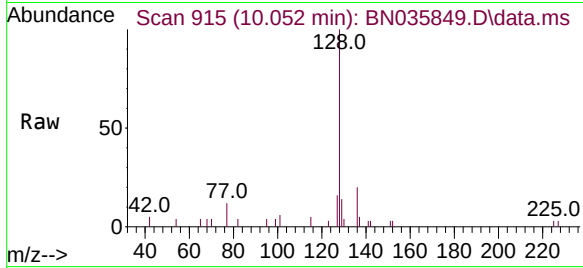
#9
Naphthalene
Concen: 0.179 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

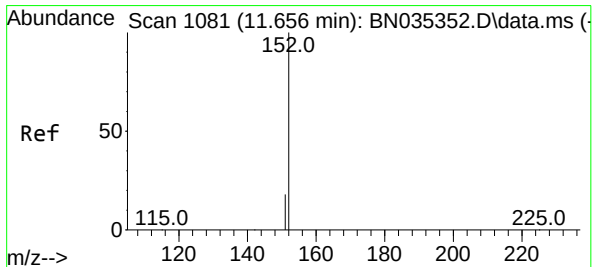
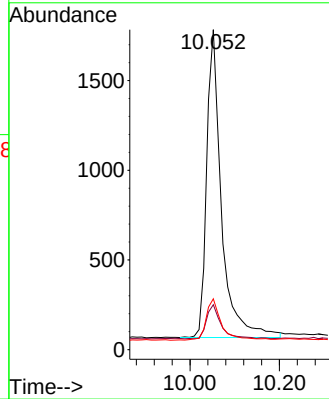
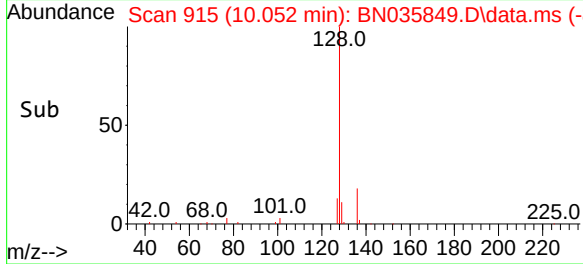
Tgt Ion:128 Resp: 3939
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2

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Supervised By :mohammad ahmed 12/30/2024

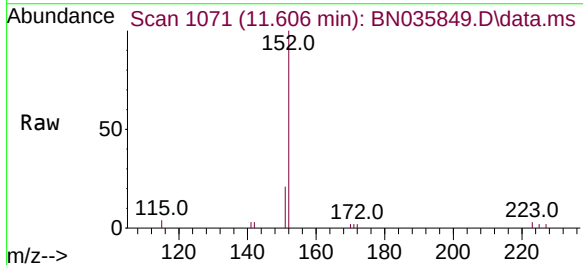


(-8

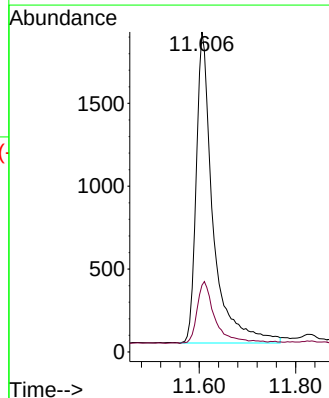
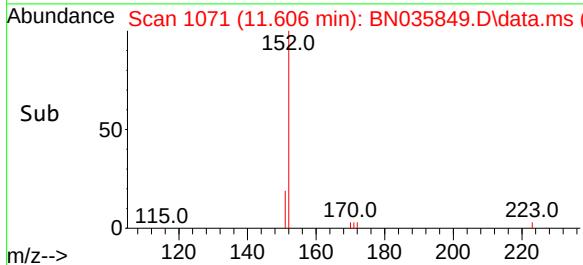


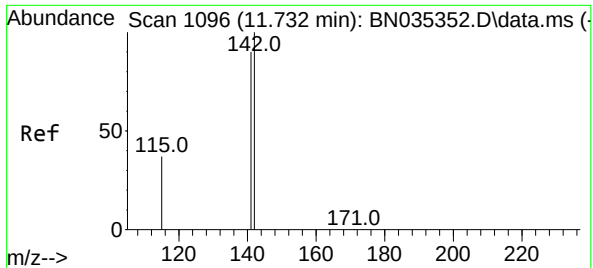
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 4536
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



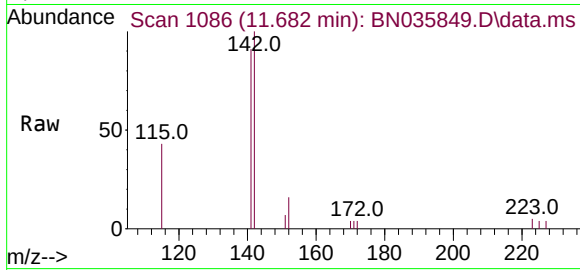
(-8





#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 11.682 min Scan# 1096
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

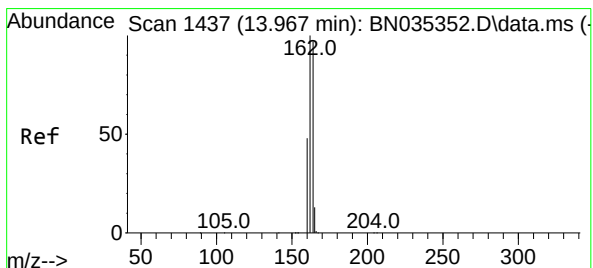
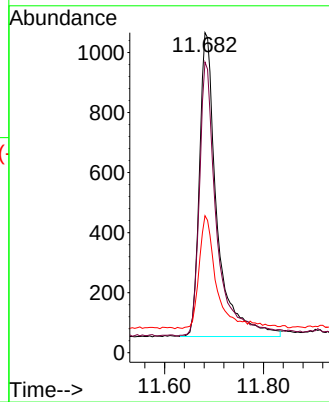
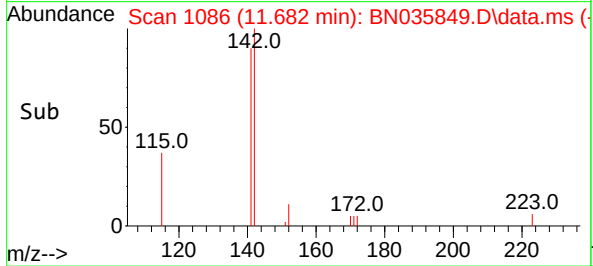
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:142 Resp: 2490
Ion Ratio Lower Upper
142 100
141 90.8 72.2 108.4
115 42.8 31.4 47.0

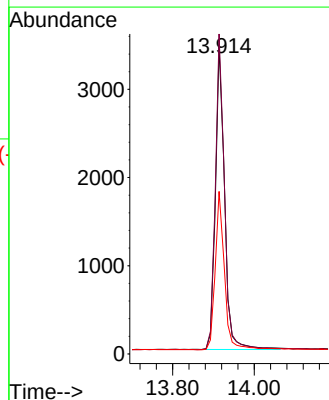
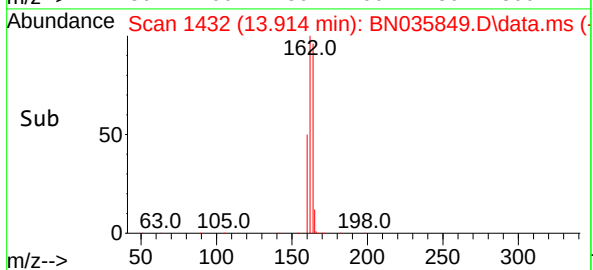
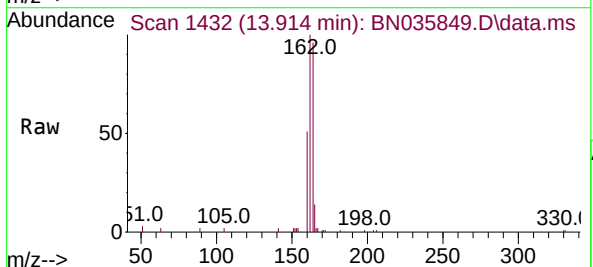
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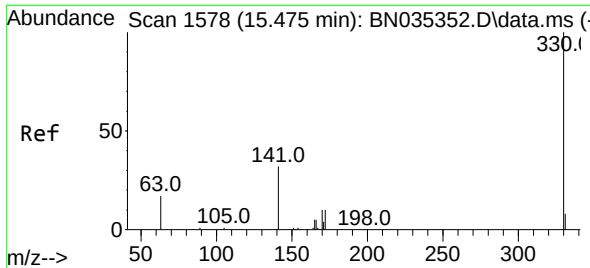
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

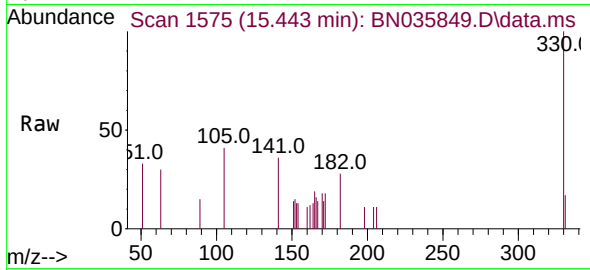
Tgt Ion:164 Resp: 5358
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 52.9 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

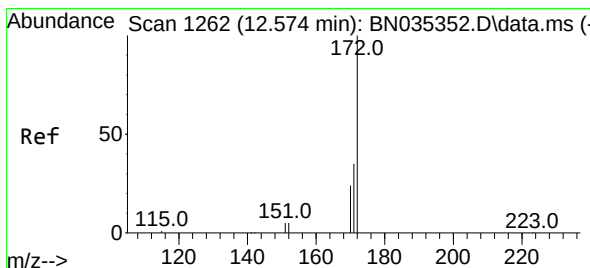
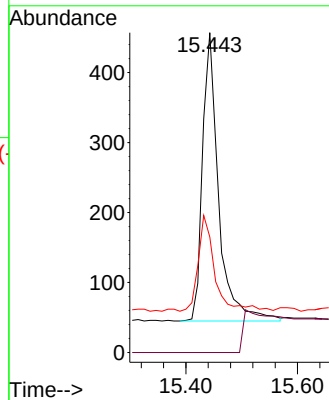
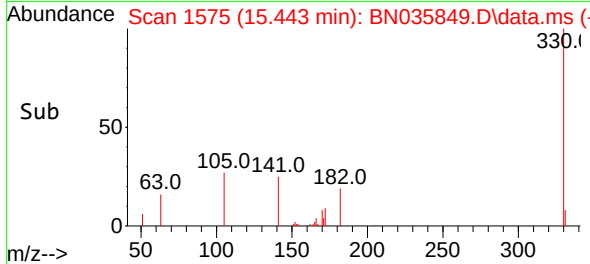
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:330 Resp: 860
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.0 26.6 40.0

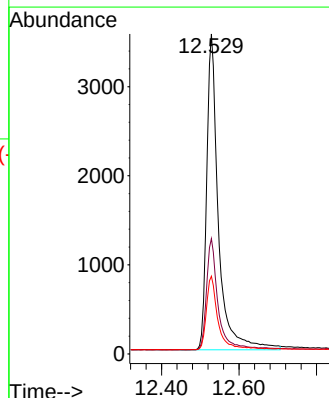
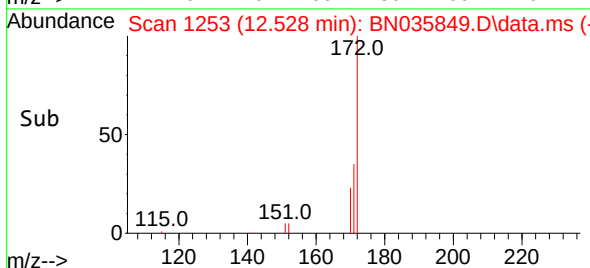
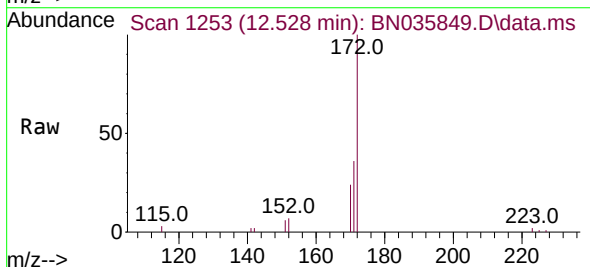
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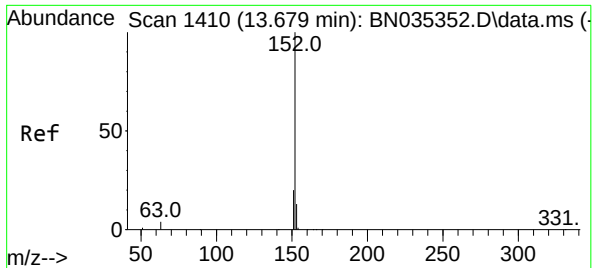
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

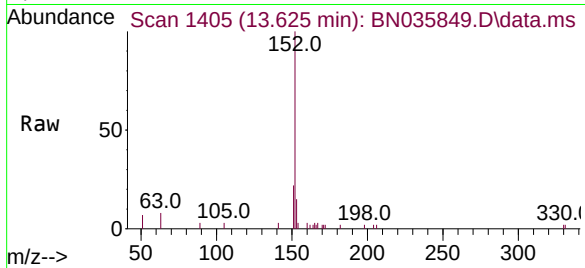
Tgt Ion:172 Resp: 7437
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 24.3 19.8 29.8





#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

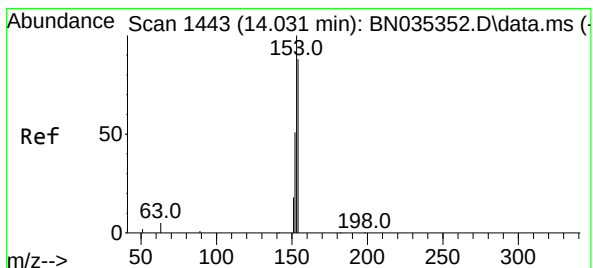
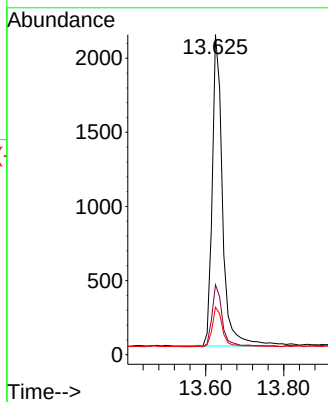
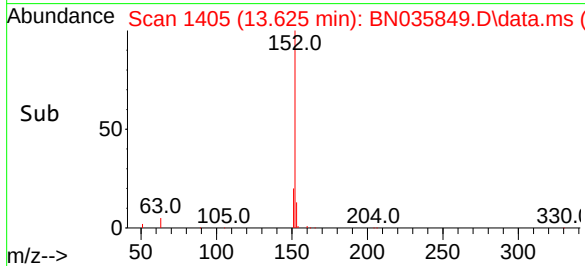
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:152 Resp: 386
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 12.9 10.4 15.6

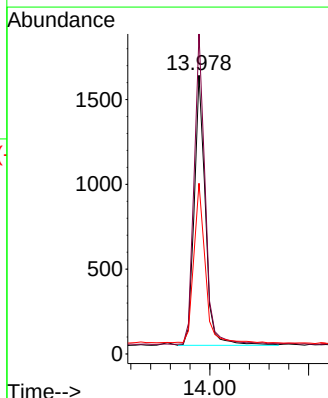
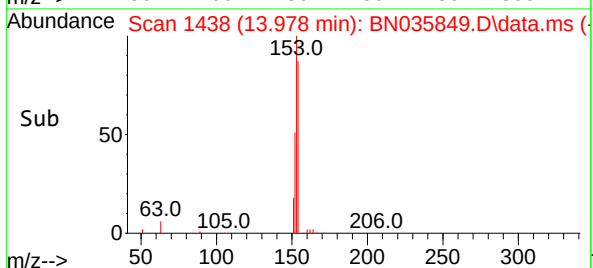
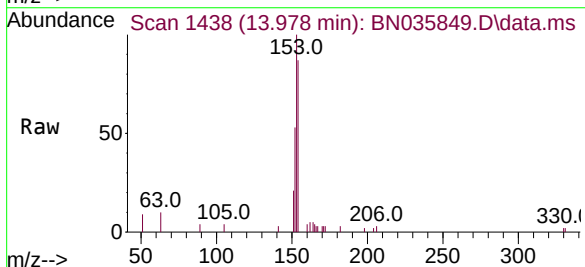
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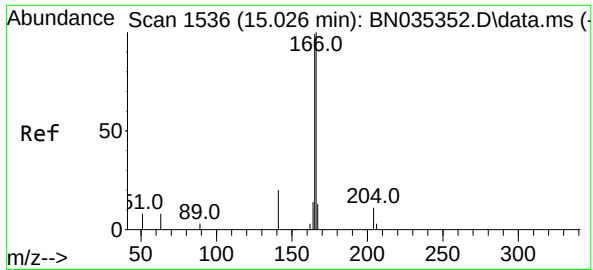
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#17
Acenaphthene
Concen: 0.167 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

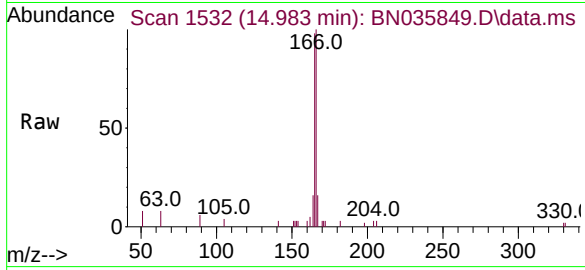
Tgt Ion:154 Resp: 2493
Ion Ratio Lower Upper
154 100
153 114.9 92.6 139.0
152 59.9 49.0 73.6





#18
Fluorene
Concen: 0.154 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

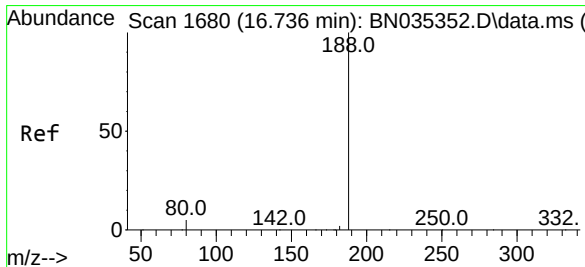
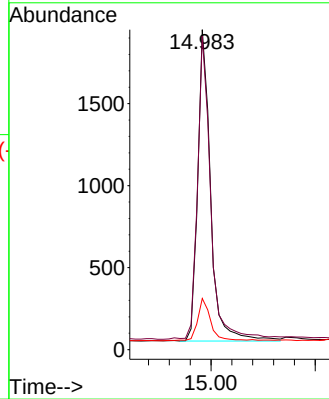
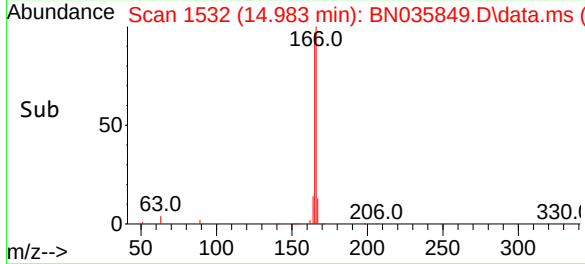
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:166 Resp: 3280
Ion Ratio Lower Upper
166 100
165 98.7 79.7 119.5
167 13.9 10.8 16.2

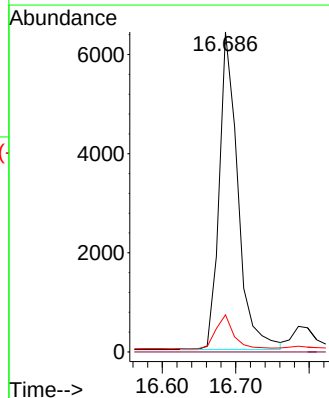
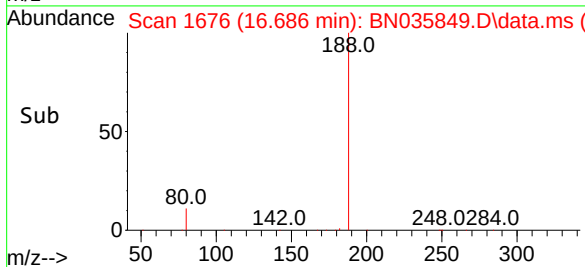
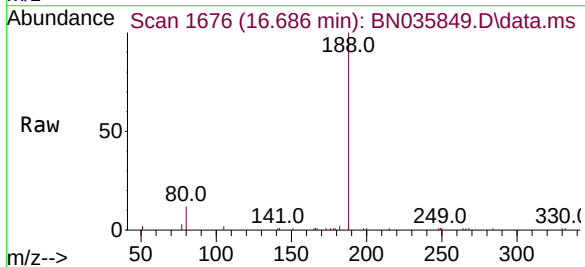
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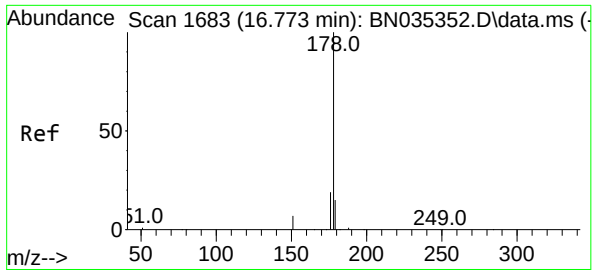
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

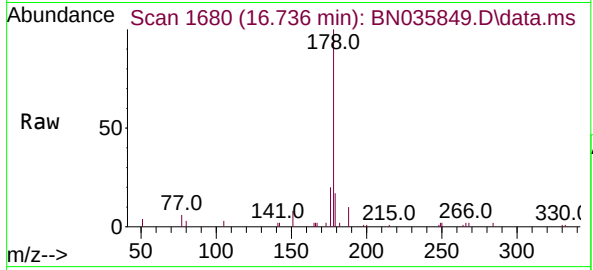
Tgt Ion:188 Resp: 11302
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 4.6 6.8#





#25
Phenanthrene
Concen: 0.203 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

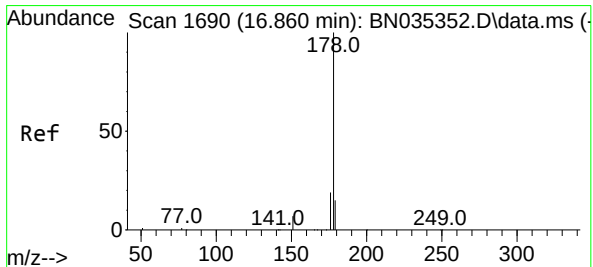
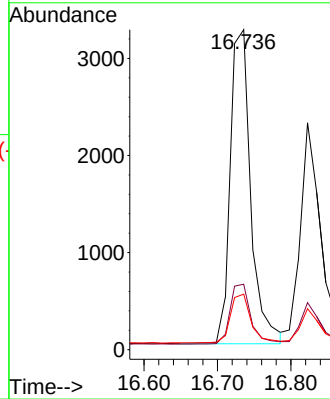
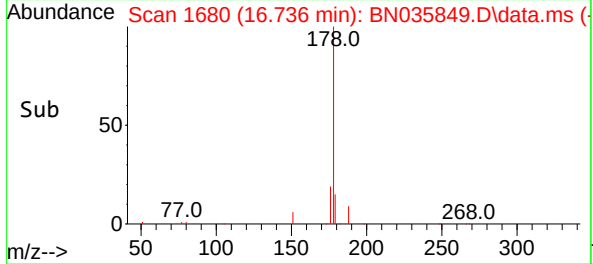
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:178 Resp: 6290
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.9 12.3 18.5

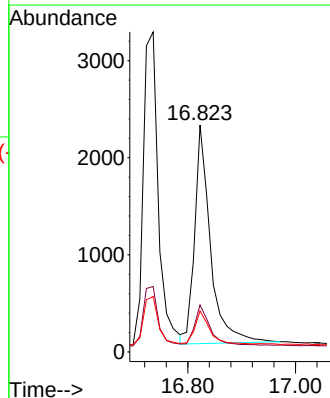
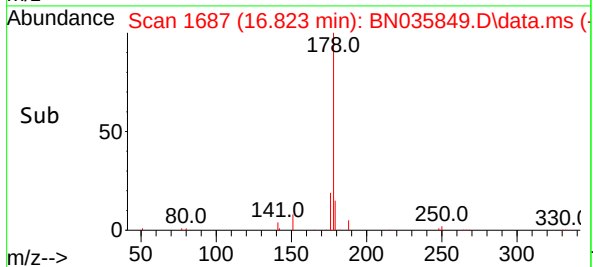
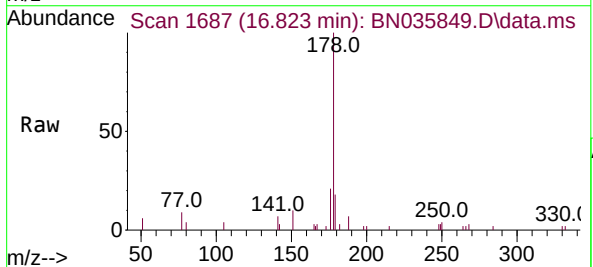
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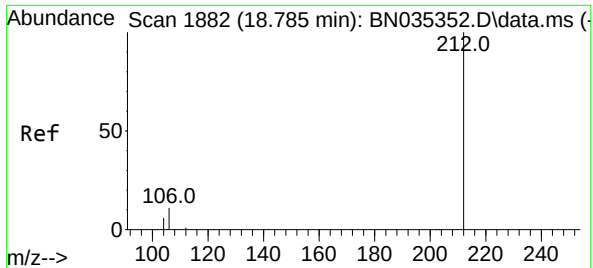
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#26
Anthracene
Concen: 0.164 ng
RT: 16.823 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

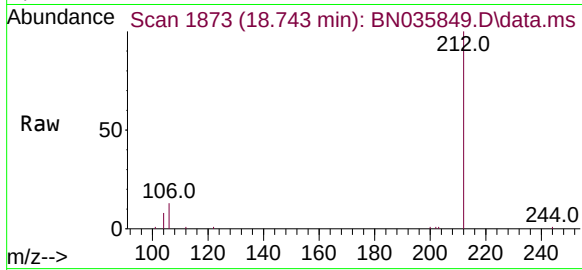
Tgt Ion:178 Resp: 4610
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 14.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.743 min Scan# 1873
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

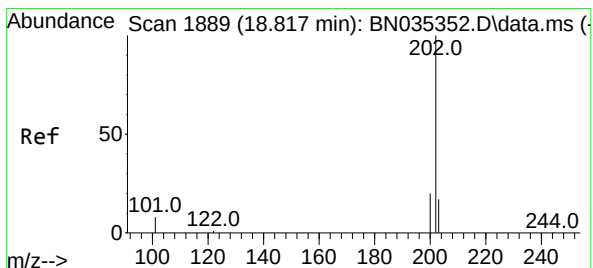
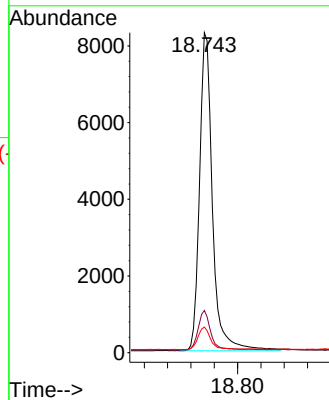
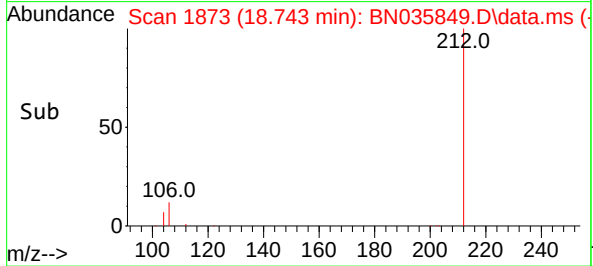
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



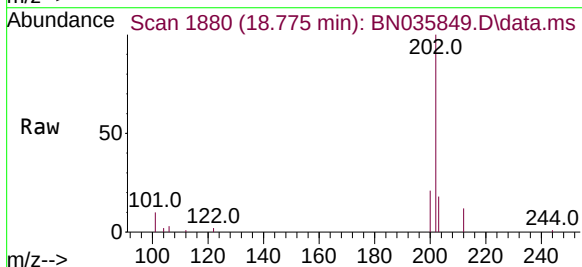
Tgt Ion:212 Resp: 12788
Ion Ratio Lower Upper
212 100
106 11.9 9.2 13.8
104 6.8 5.3 7.9

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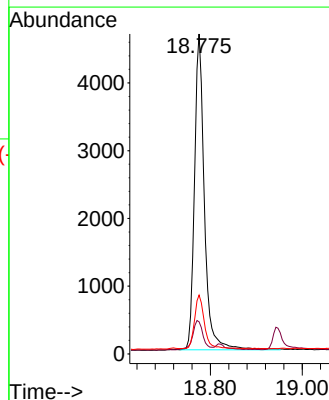
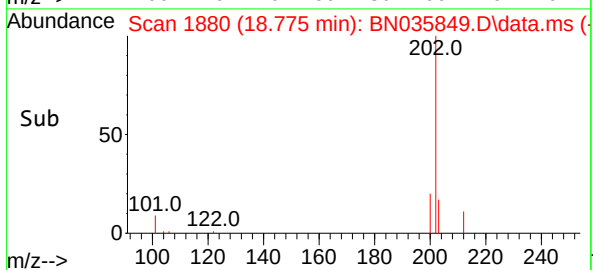
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

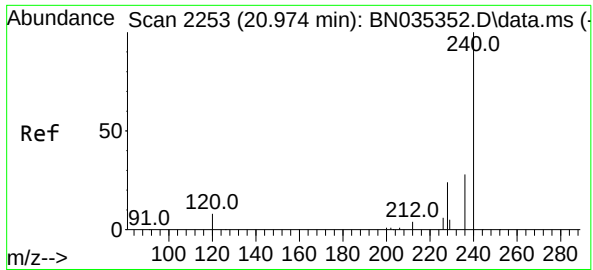


#28
Fluoranthene
Concen: 0.167 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31



Tgt Ion:202 Resp: 6981
Ion Ratio Lower Upper
202 100
101 9.6 7.4 11.0
203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035849.D

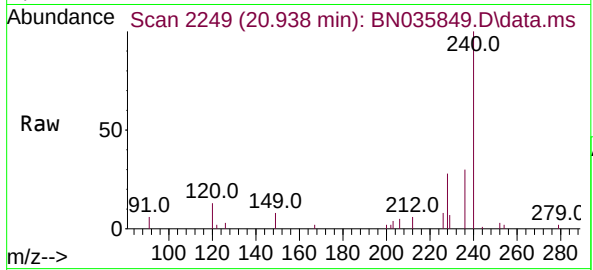
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



Tgt Ion:240 Resp: 8549

Ion Ratio Lower Upper

240 100

120 13.3 7.9 11.9

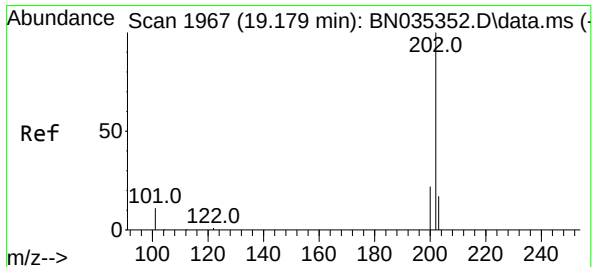
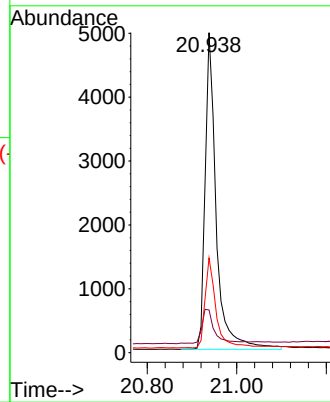
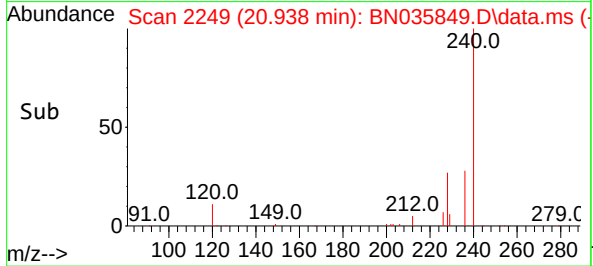
236 29.6 22.9 34.3

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#30

Pyrene

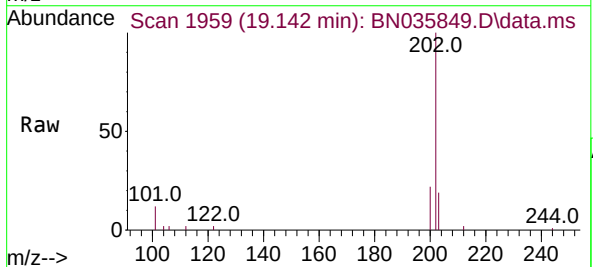
Concen: 0.228 ng

RT: 19.142 min Scan# 1959

Delta R.T. -0.019 min

Lab File: BN035849.D

Acq: 26 Dec 2024 12:31



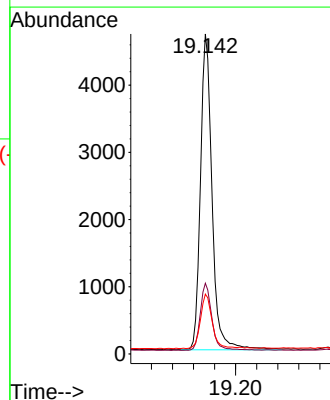
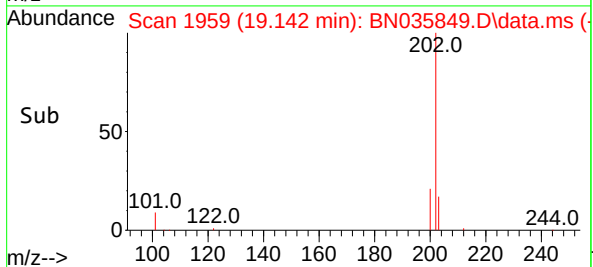
Tgt Ion:202 Resp: 7191

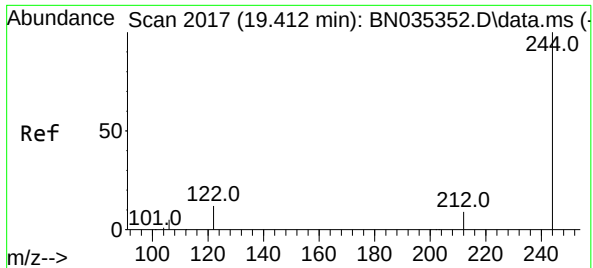
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

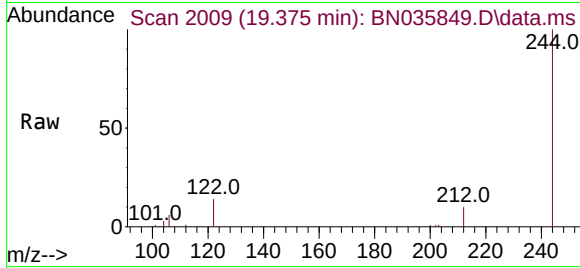
203 17.4 14.3 21.5





#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

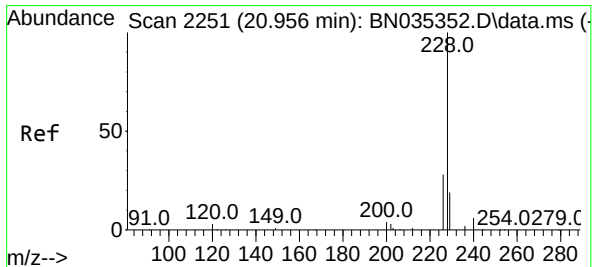
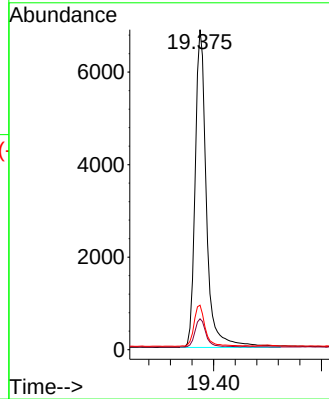
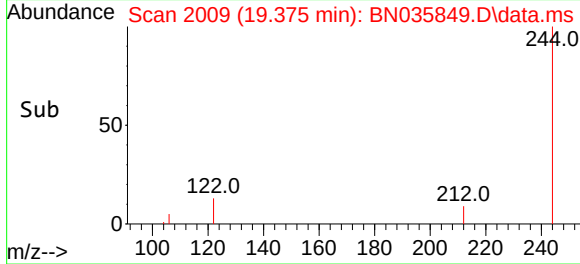
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:244 Resp: 9994
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 13.9 10.3 15.5

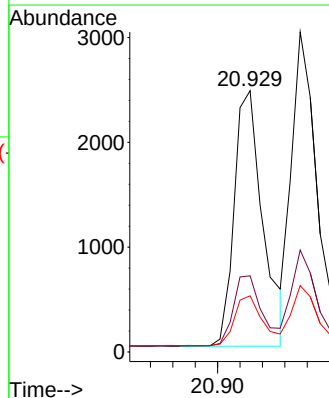
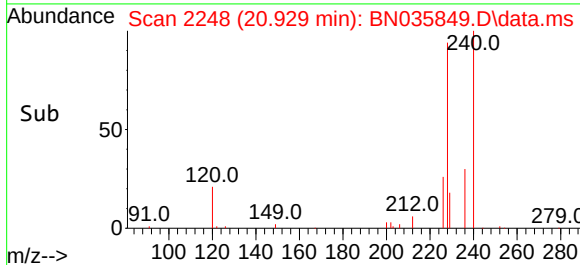
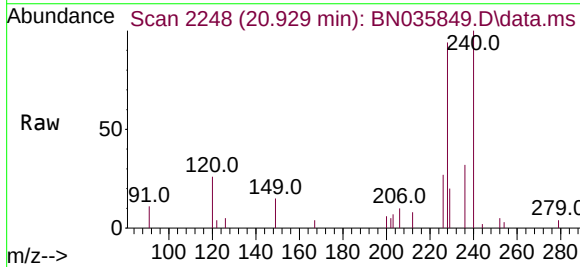
Manual Integrations
APPROVED

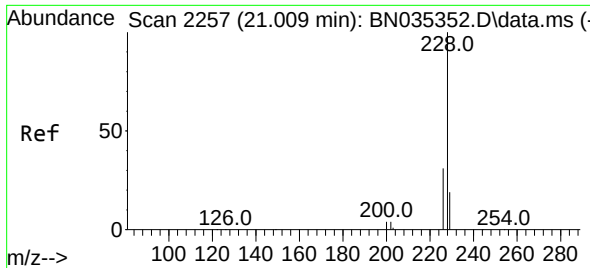
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#32
Benzo(a)anthracene
Concen: 0.145 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

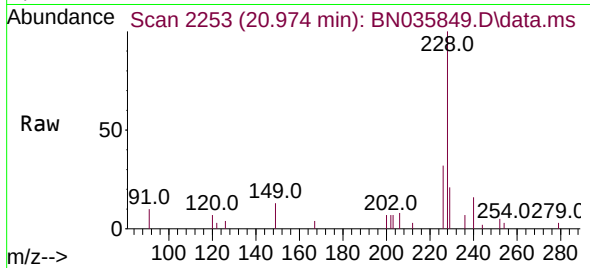
Tgt Ion:228 Resp: 4336
Ion Ratio Lower Upper
228 100
226 29.1 22.5 33.7
229 21.5 15.8 23.8





#33
Chrysene
Concen: 0.167 ng
RT: 20.974 min Scan# 2105
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

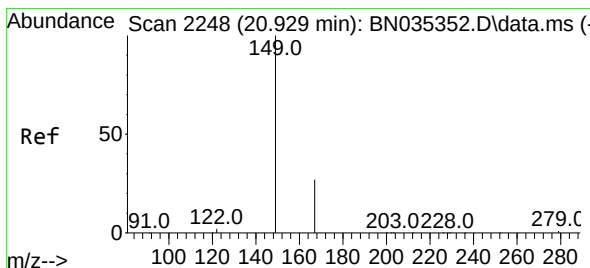
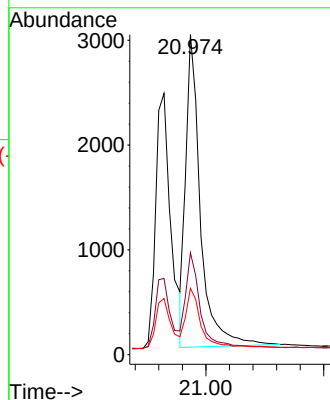
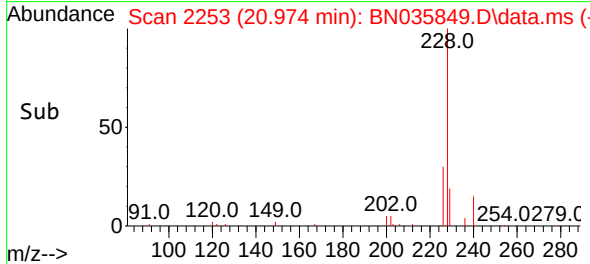
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:228 Resp: 515
Ion Ratio Lower Upper
228 100
226 31.9 24.6 37.0
229 20.7 15.9 23.9

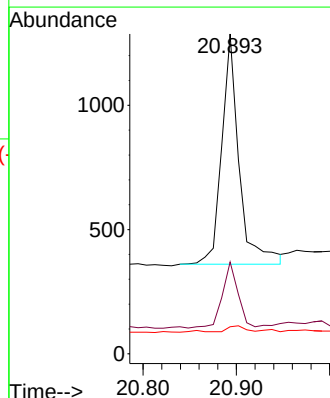
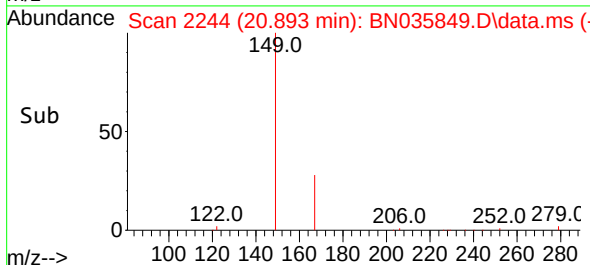
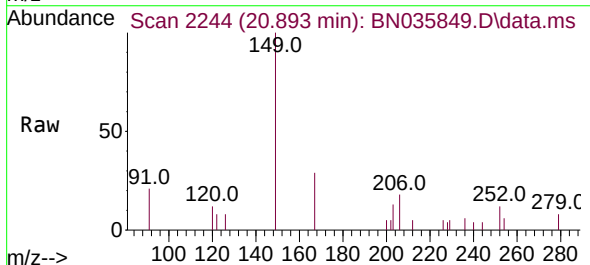
Manual Integrations
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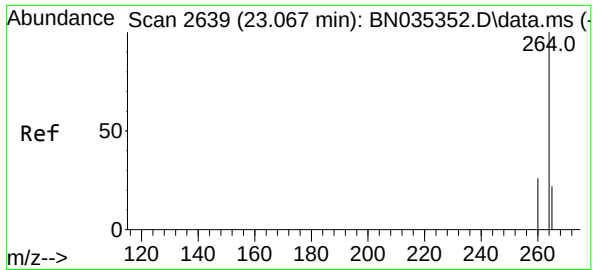
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

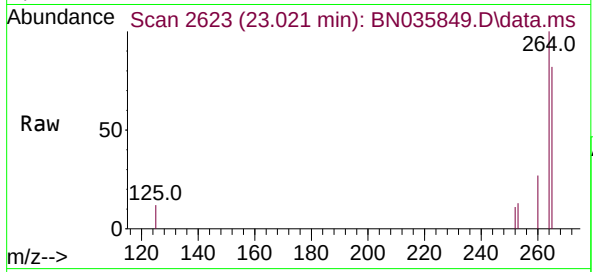
Tgt Ion:149 Resp: 1190
Ion Ratio Lower Upper
149 100
167 25.9 22.2 33.4
279 2.4 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2623
Delta R.T. -0.020 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

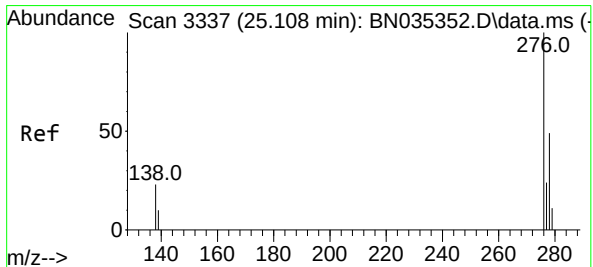
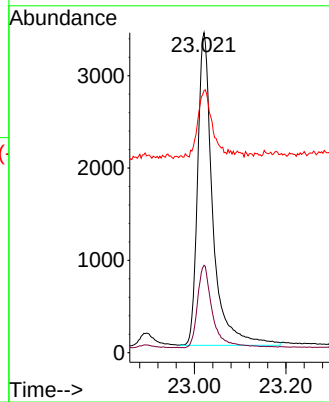
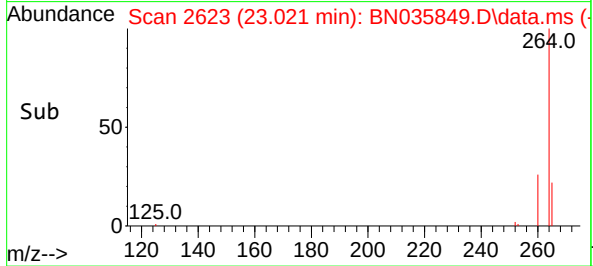
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218



Tgt Ion:264 Resp: 7798
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 81.9 40.2 60.4

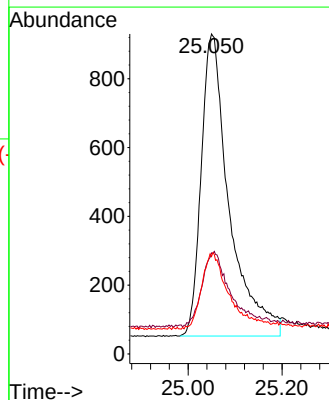
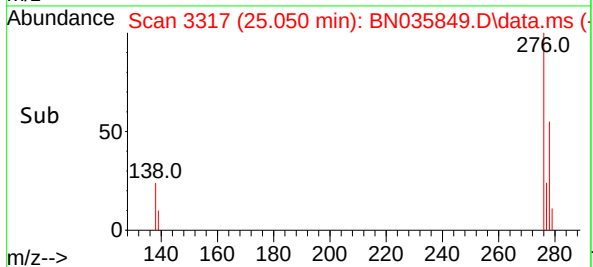
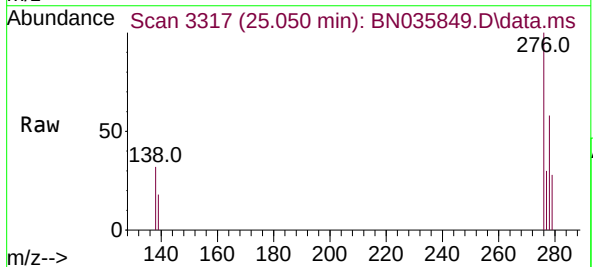
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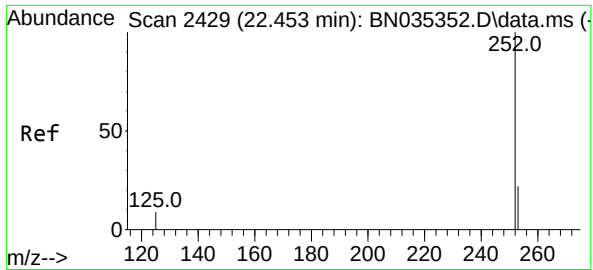
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.119 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 3640
Ion Ratio Lower Upper
276 100
138 24.8 19.4 29.0
277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.192 ng

RT: 22.413 min Scan# 2415

Delta R.T. -0.018 min

Lab File: BN035849.D

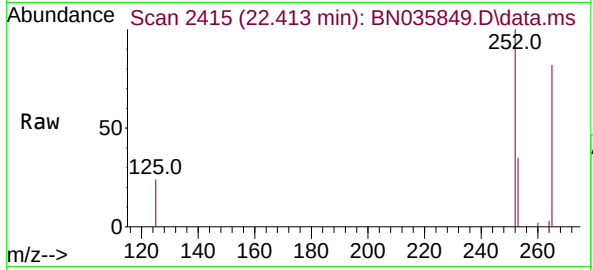
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



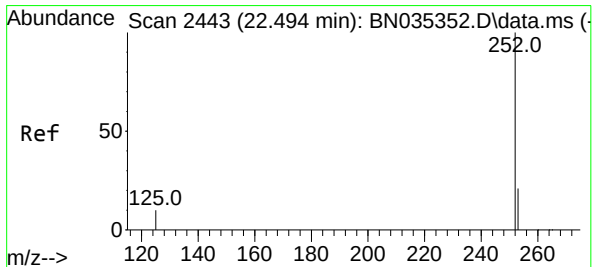
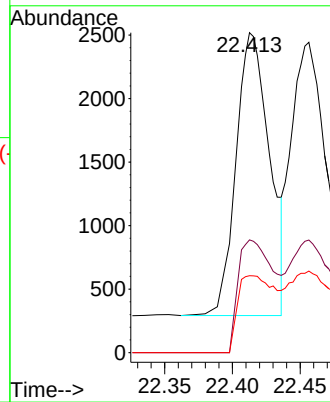
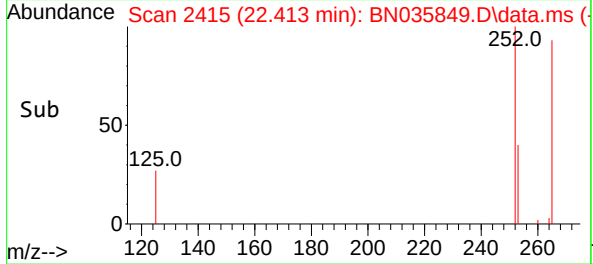
Tgt Ion:	252	Resp:	547
Ion Ratio	Lower	Upper	
252	100		
253	35.3	19.6	29.4
125	24.1	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#38

Benzo(k)fluoranthene

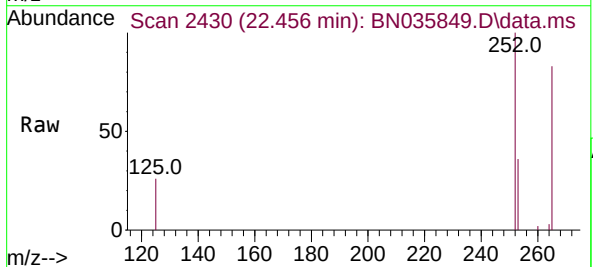
Concen: 0.148 ng

RT: 22.456 min Scan# 2430

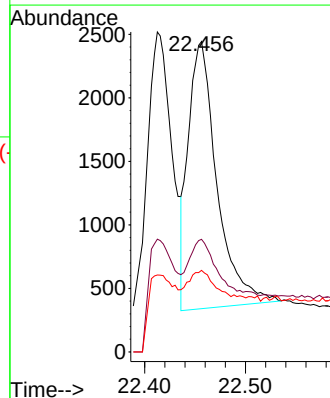
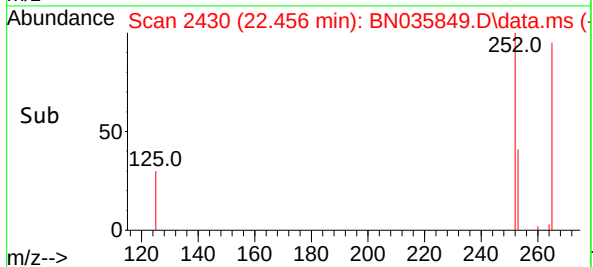
Delta R.T. -0.015 min

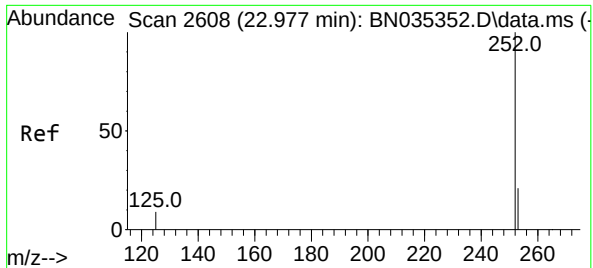
Lab File: BN035849.D

Acq: 26 Dec 2024 12:31



Tgt Ion:	252	Resp:	4164
Ion Ratio	Lower	Upper	
252	100		
253	36.3	19.5	29.3
125	26.3	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.121 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035849.D

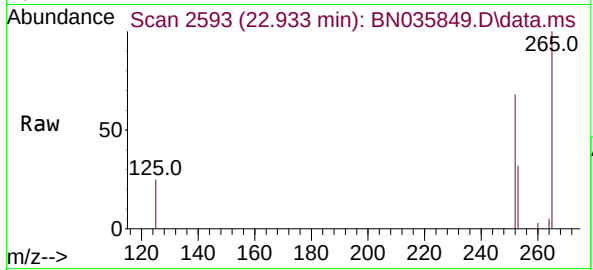
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



Tgt Ion:252 Resp: 284

Ion Ratio Lower Upper

252 100

253 46.7 20.2 30.4

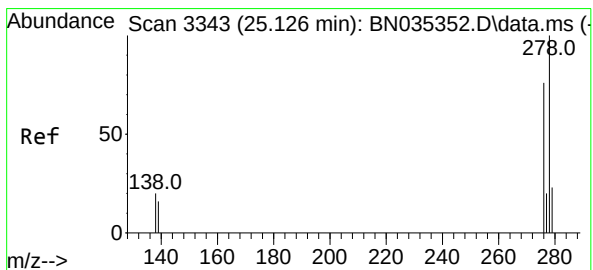
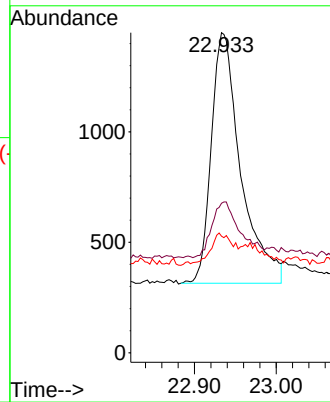
125 36.4 10.9 16.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#40

Dibenzo(a,h)anthracene

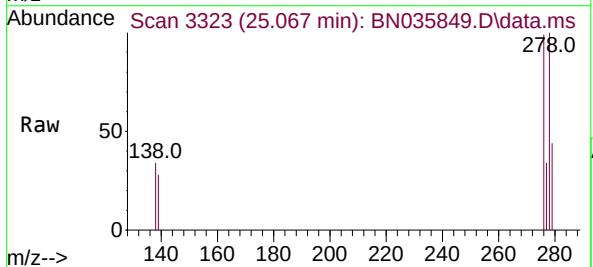
Concen: 0.118 ng

RT: 25.067 min Scan# 3323

Delta R.T. -0.015 min

Lab File: BN035849.D

Acq: 26 Dec 2024 12:31



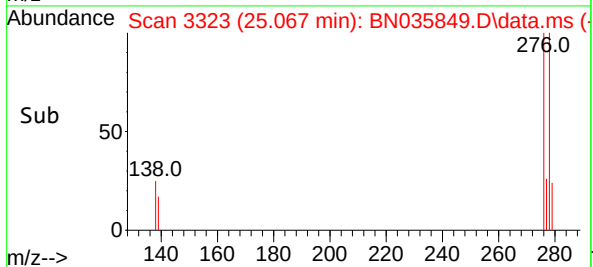
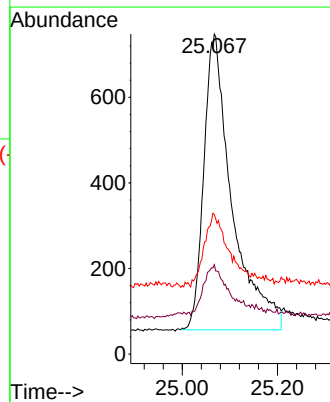
Tgt Ion:278 Resp: 2834

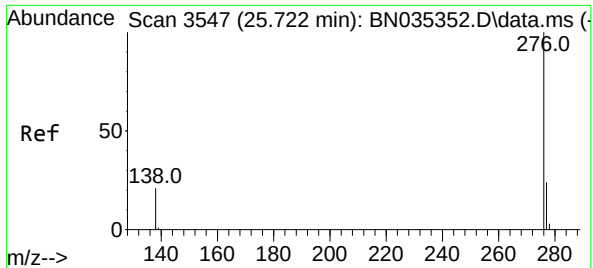
Ion Ratio Lower Upper

278 100

139 27.9 14.2 21.4

279 43.6 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.113 ng

RT: 25.652 min Scan# 30

Delta R.T. -0.026 min

Lab File: BN035849.D

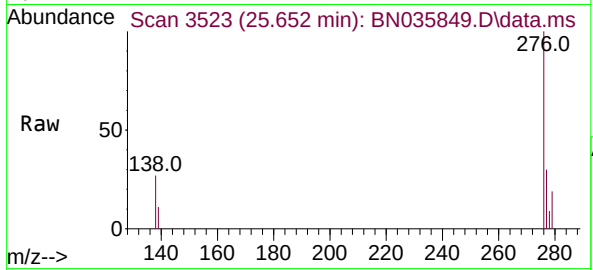
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



Tgt Ion:276 Resp: 284

Ion Ratio Lower Upper

276 100

277 30.0 19.9 29.9

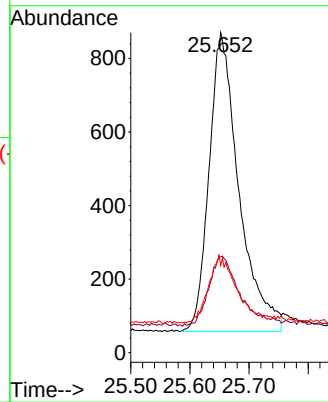
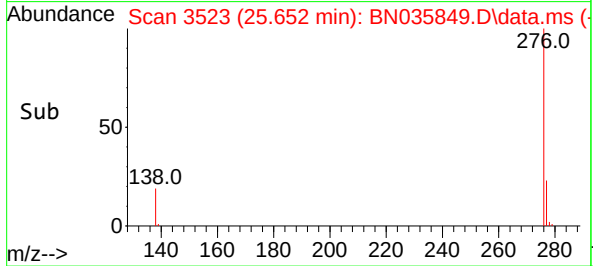
138 27.2 17.8 26.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT150S1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-02	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
BN035815.D	1	12/23/24 13:29	12/24/24 11:21	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3150		7.264			
1146-65-2	Naphthalene-d8	7090		10.009			
15067-26-2	Acenaphthene-d10	4330		13.925			
1517-22-2	Phenanthrene-d10	8130		16.698			
1719-03-5	Chrysene-d12	6730		20.947			
1520-96-3	Perylene-d12	6590		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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035815.D
 Acq On : 24 Dec 2024 11:21
 Operator : RC/JU
 Sample : P5376-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT150S1-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:17:07 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	3146	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7086	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4334	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8132	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6728	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6588	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	783	0.099	ng	-0.01
5) Phenol-d6	6.477	99	425	0.045	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1751m	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3733	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	558	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6086	0.371	ng	0.00
27) Fluoranthene-d10	18.747	212	9081	0.394	ng	-0.01
31) Terphenyl-d14	19.379	244	7115	0.536	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	2.982	88	735	0.244	ng	91
9) Naphthalene	10.052	128	3064	0.164	ng	# 93
12) 2-Methylnaphthalene	11.697	142	1938	0.145	ng	# 95
16) Acenaphthylene	13.636	152	3133	0.172	ng	98
17) Acenaphthene	13.989	154	1954	0.162	ng	96
18) Fluorene	14.994	166	2543	0.147	ng	99
25) Phenanthrene	16.736	178	4749	0.213	ng	99
26) Anthracene	16.835	178	3615	0.179	ng	99
28) Fluoranthene	18.780	202	5217	0.173	ng	100
30) Pyrene	19.147	202	5398	0.217	ng	99
32) Benzo(a)anthracene	20.929	228	3164	0.134	ng	96
33) Chrysene	20.983	228	4527	0.187	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.038	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.058	276	2949	0.115	ng	96
37) Benzo(b)fluoranthene	22.421	252	4545	0.189	ng	# 72
38) Benzo(k)fluoranthene	22.465	252	3529	0.149	ng	# 71
39) Benzo(a)pyrene	22.945	252	2673	0.135	ng	# 51
40) Dibenzo(a,h)anthracene	25.082	278	2170	0.107	ng	# 55
41) Benzo(g,h,i)perylene	25.672	276	2390	0.113	ng	# 83

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

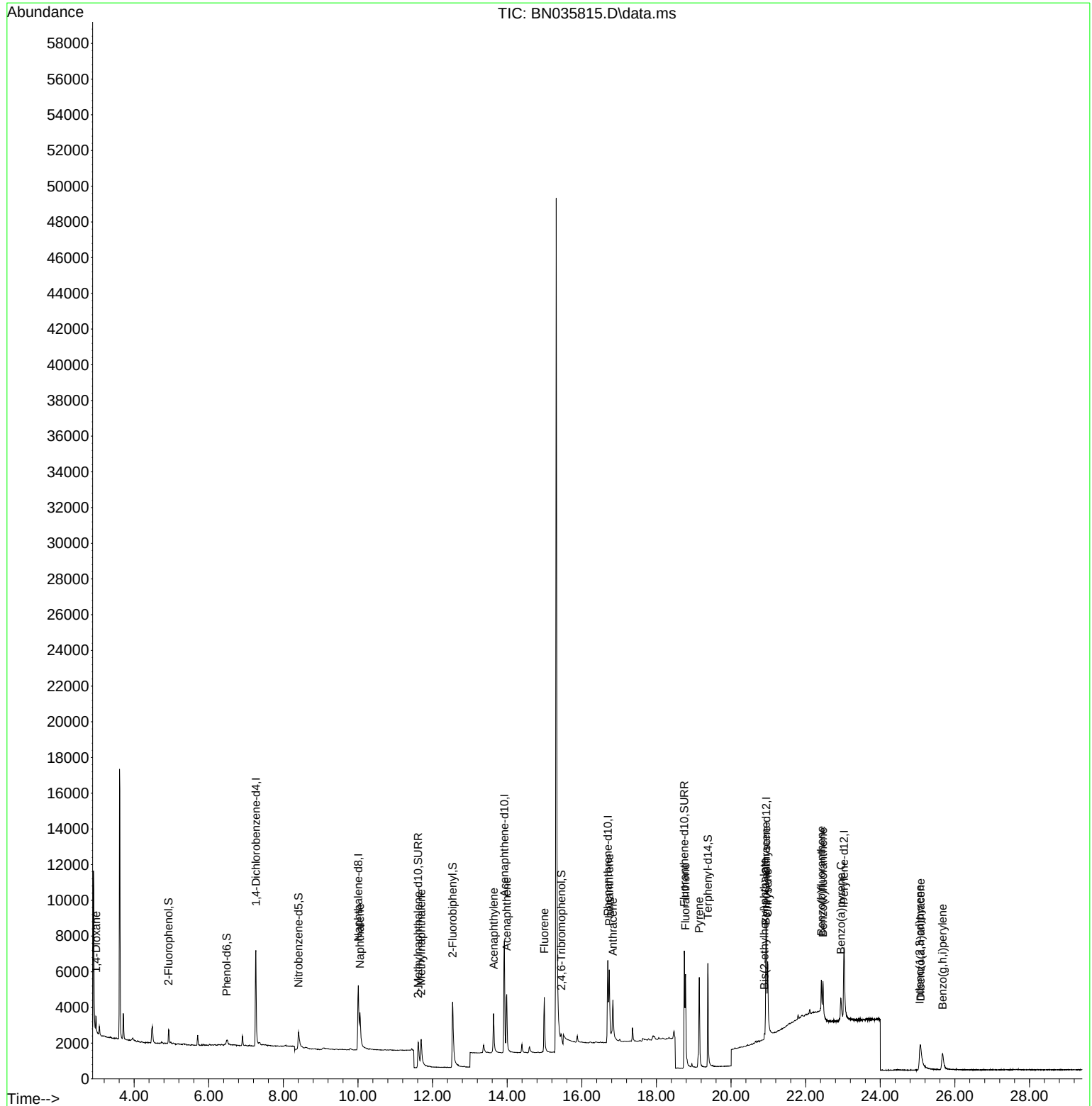
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

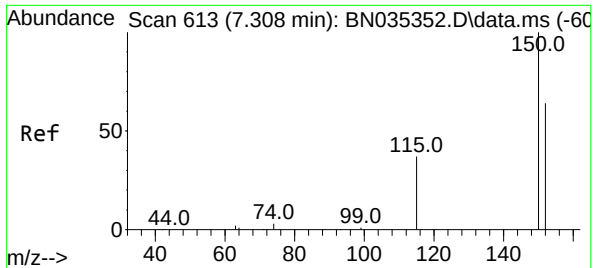
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

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

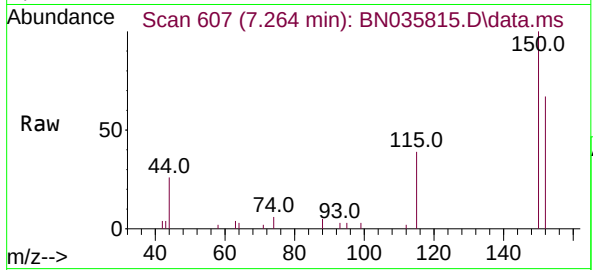
Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

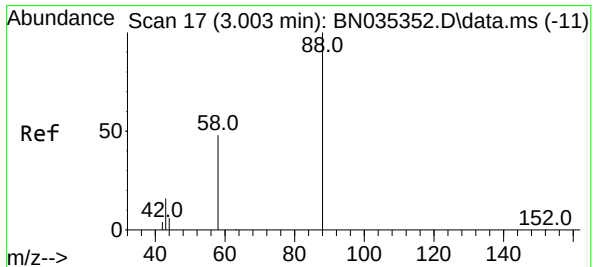
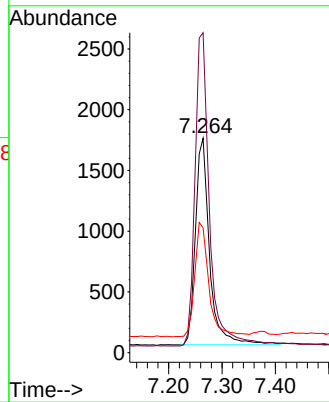
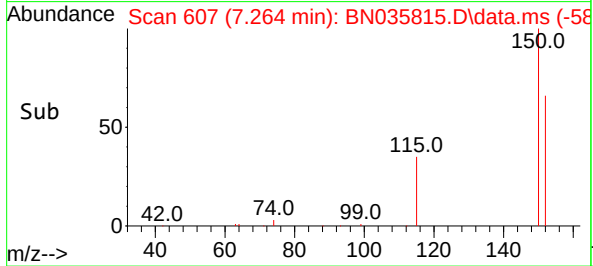
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:152 Resp: 3140
Ion Ratio Lower Upper
152 100
150 149.2 124.0 186.0
115 58.2 49.6 74.4

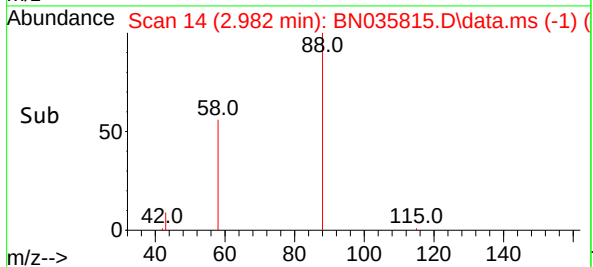
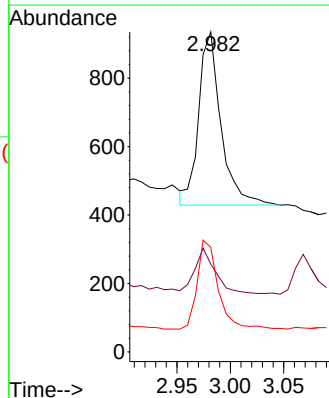
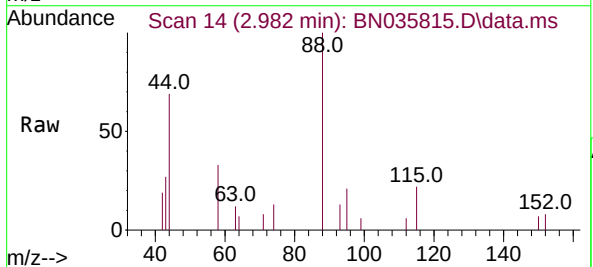
Manual Integrations
APPROVED

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

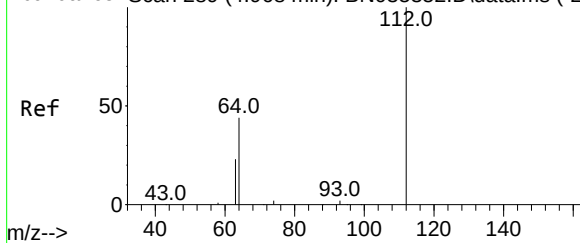


#2
1,4-Dioxane
Concen: 0.244 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 88 Resp: 735
Ion Ratio Lower Upper
88 100
43 23.5 17.2 25.8
58 48.2 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.099 ng

RT: 4.924 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

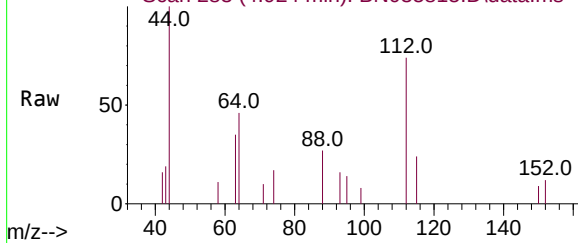
Tgt Ion:	112	Resp:	78
Ion	Ratio	Lower	Upper
112	100		
64	55.9	39.8	59.8
63	25.3	21.0	31.6

Manual Integrations

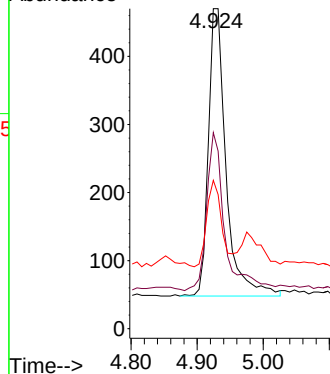
APPROVED

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

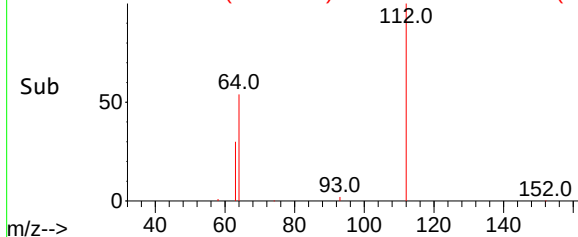
Abundance Scan 283 (4.924 min): BN035815.D\data.ms



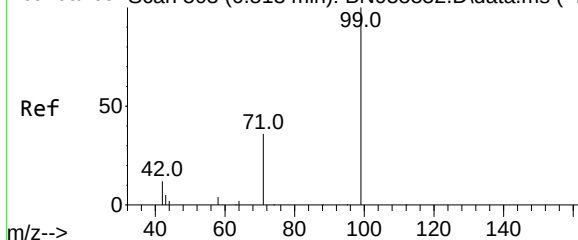
Abundance



Abundance Scan 283 (4.924 min): BN035815.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.045 ng

RT: 6.477 min Scan# 498

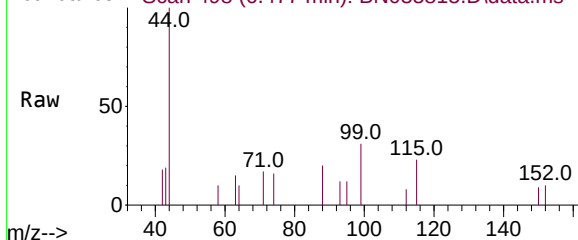
Delta R.T. -0.015 min

Lab File: BN035815.D

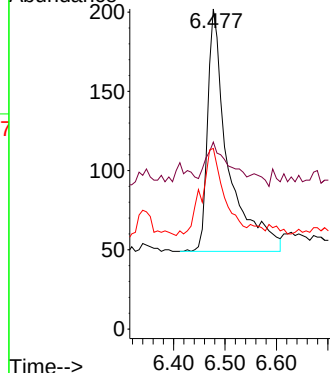
Acq: 24 Dec 2024 11:21

Tgt Ion:	99	Resp:	425
Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	40.0	29.3	43.9

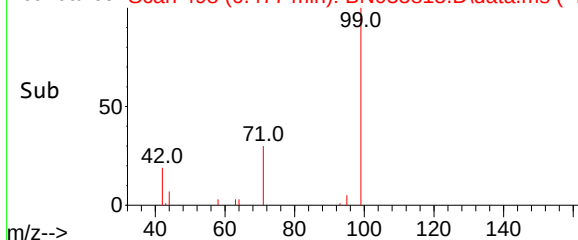
Abundance Scan 498 (6.477 min): BN035815.D\data.ms

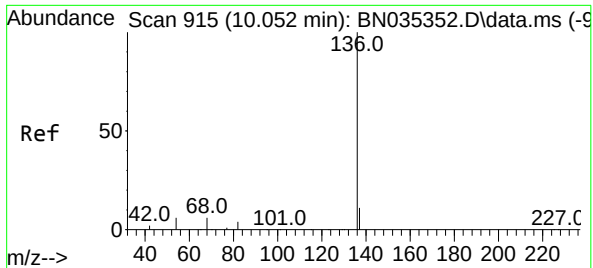


Abundance



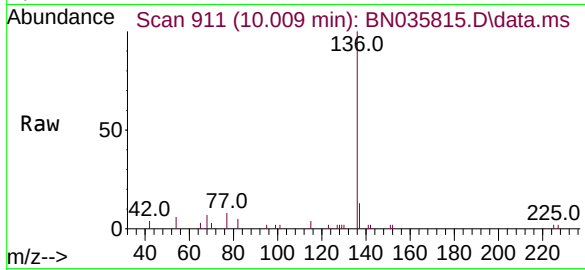
Abundance Scan 498 (6.477 min): BN035815.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

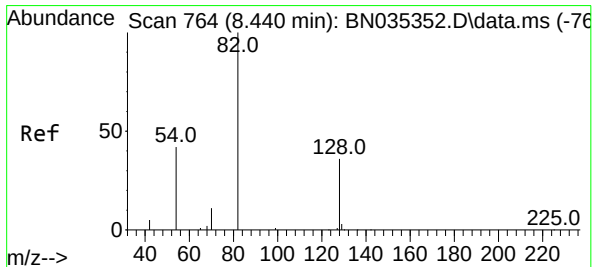
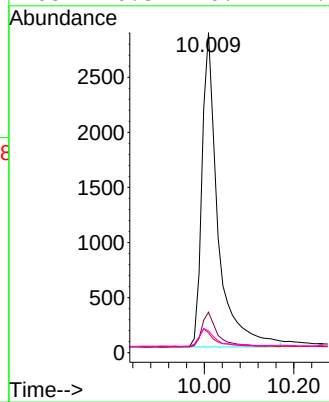
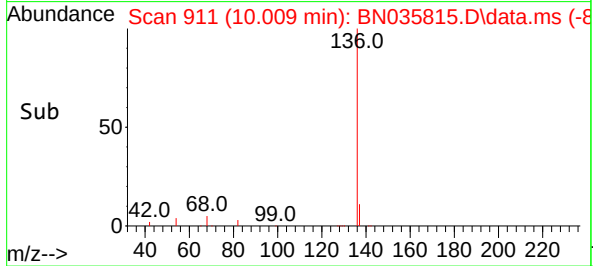
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion: 136 Resp: 7080
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 6.2 6.1 9.1
68 6.8 6.4 9.6

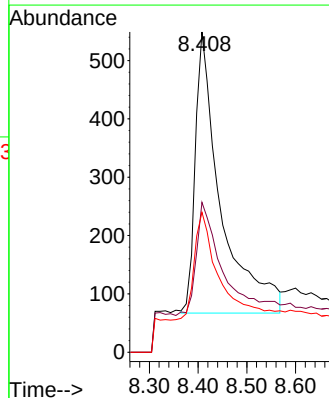
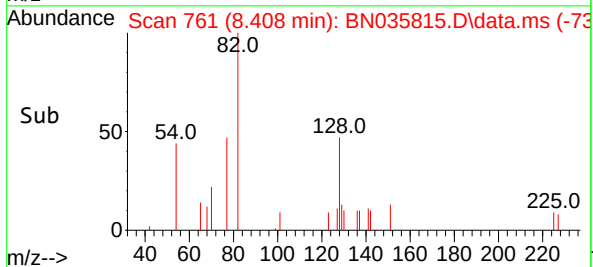
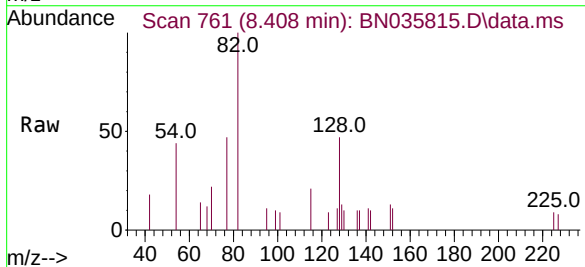
Manual Integrations
APPROVED

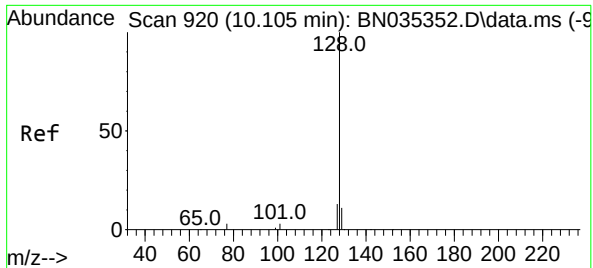
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.405 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

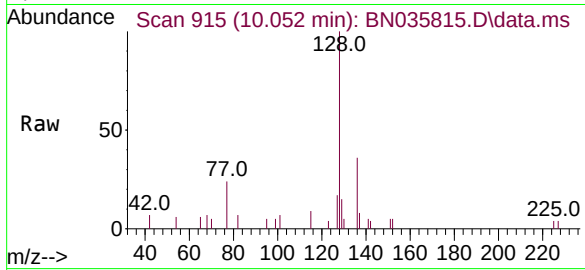
Tgt Ion: 82 Resp: 1751
Ion Ratio Lower Upper
82 100
128 46.8 33.4 50.0
54 43.7 36.7 55.1





#9
Naphthalene
Concen: 0.164 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

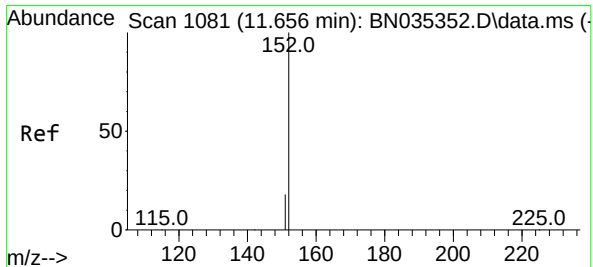
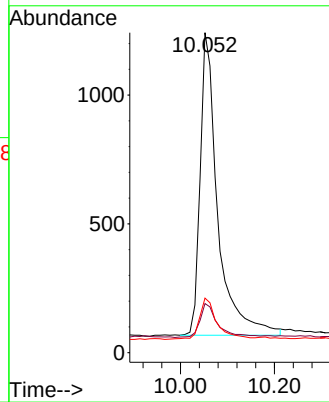
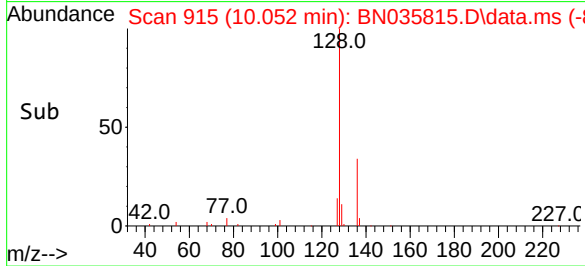
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:128 Resp: 3064
Ion Ratio Lower Upper
128 100
129 15.4 9.8 14.6
127 17.1 11.4 17.2

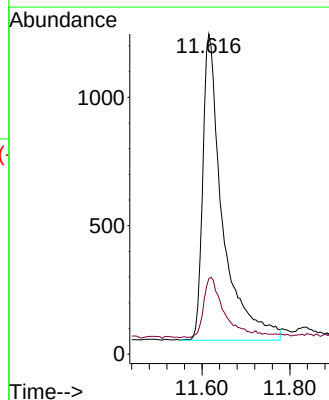
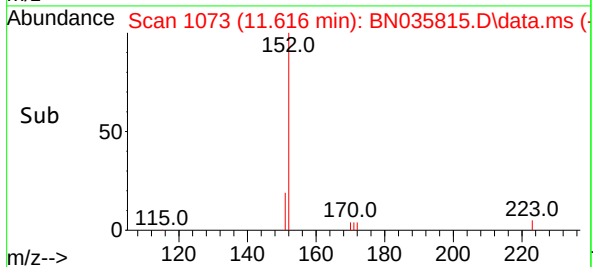
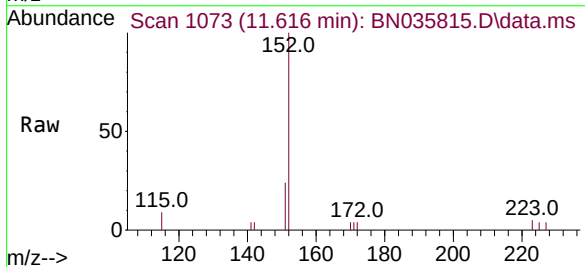
Manual Integrations
APPROVED

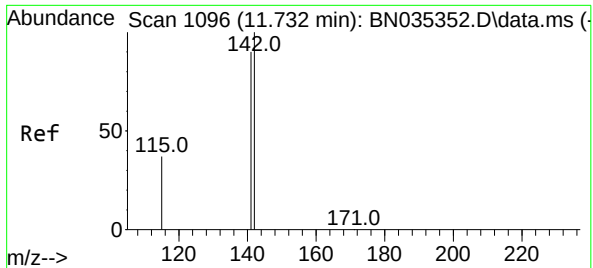
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

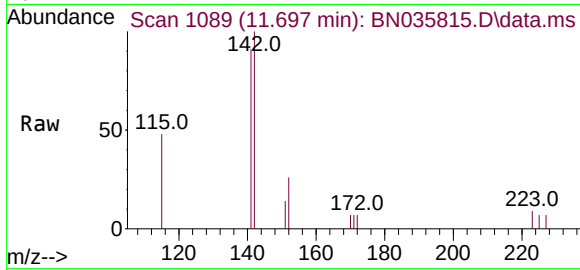
Tgt Ion:152 Resp: 3733
Ion Ratio Lower Upper
152 100
151 19.6 16.6 25.0





#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 11.697 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

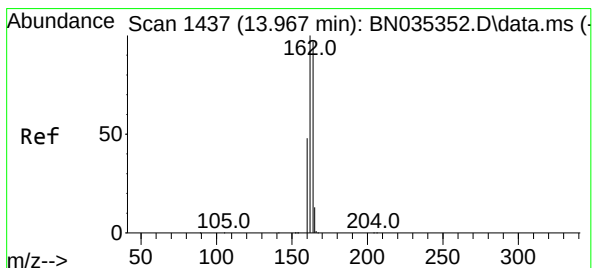
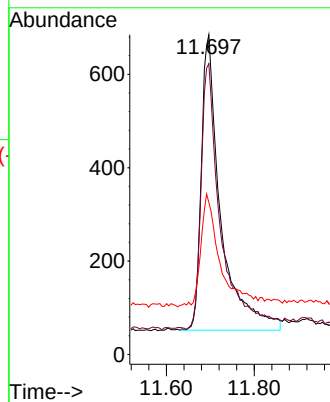
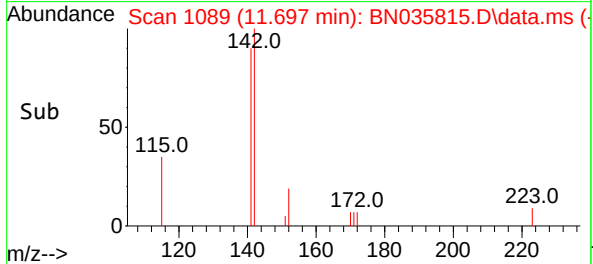
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:142 Resp: 1938
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 47.6 31.4 47.0

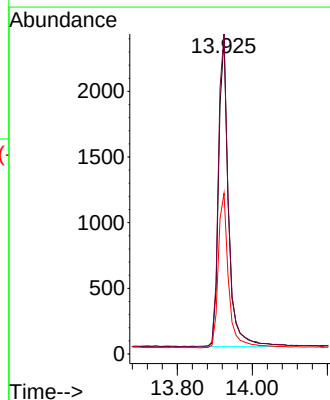
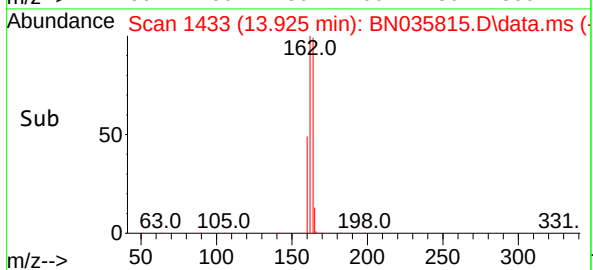
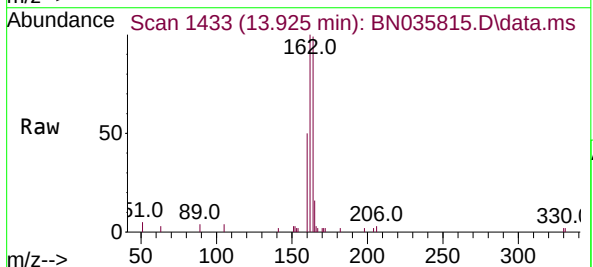
Manual Integrations
APPROVED

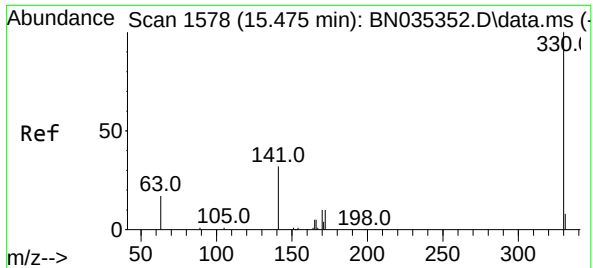
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

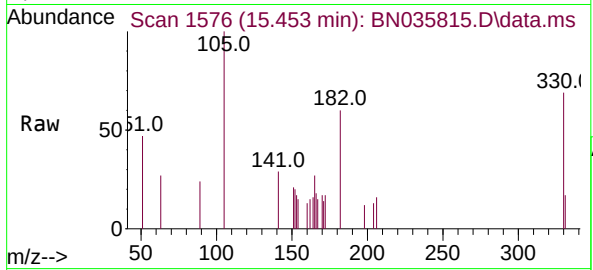
Tgt Ion:164 Resp: 4334
Ion Ratio Lower Upper
164 100
162 101.3 82.2 123.2
160 50.9 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

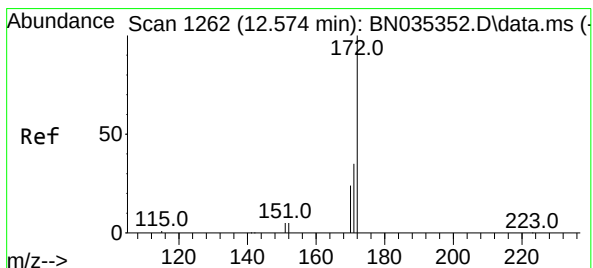
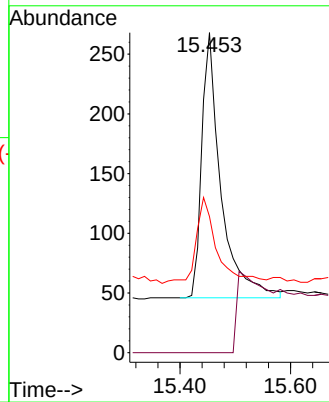
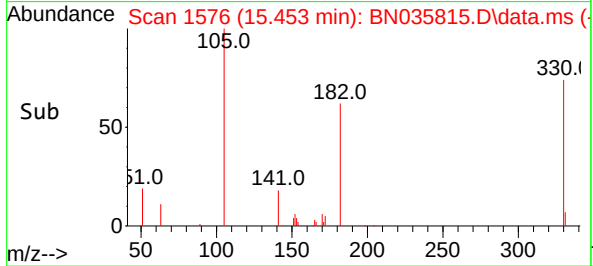
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion: 330 Resp: 558
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 26.6 40.0

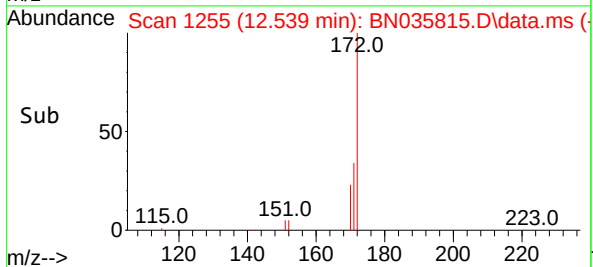
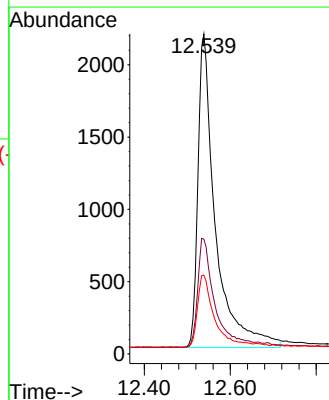
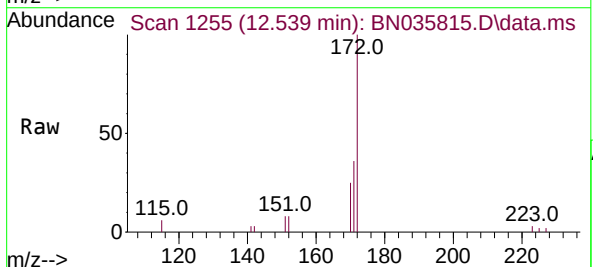
Manual Integrations
APPROVED

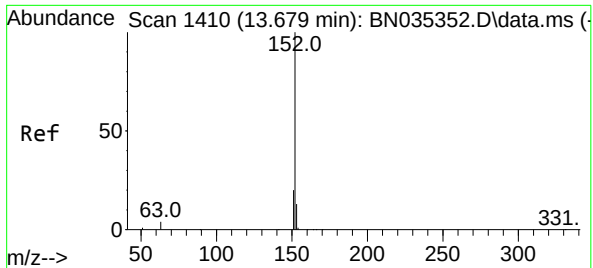
Reviewed By : Yogesh Patel 12/25/2024
Supervised By : mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

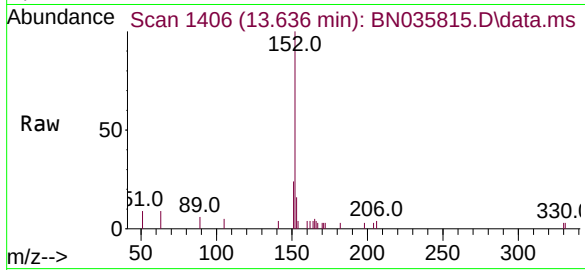
Tgt Ion: 172 Resp: 6086
Ion Ratio Lower Upper
172 100
171 35.9 29.0 43.4
170 24.6 19.8 29.8





#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

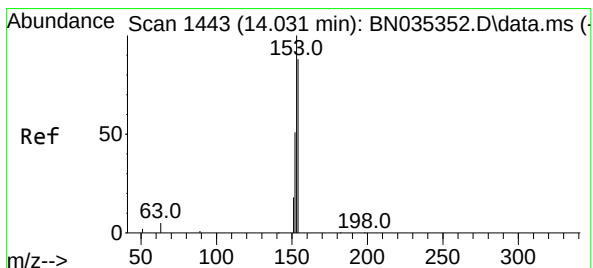
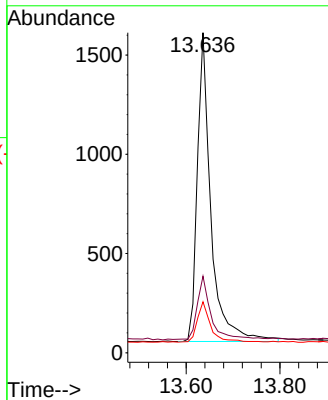
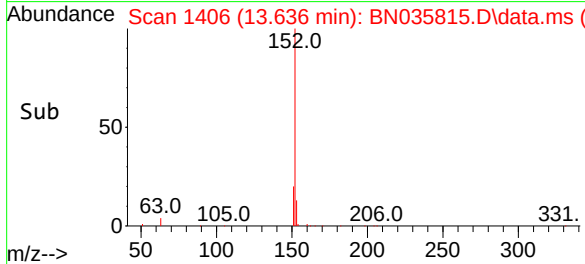
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:152 Resp: 313
Ion Ratio Lower Upper
152 100
151 21.5 16.2 24.2
153 12.7 10.4 15.6

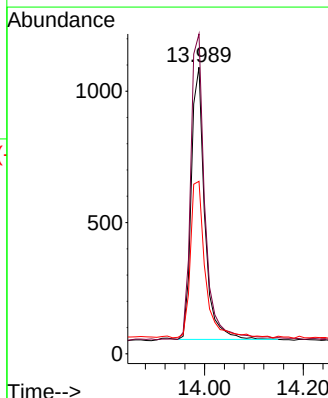
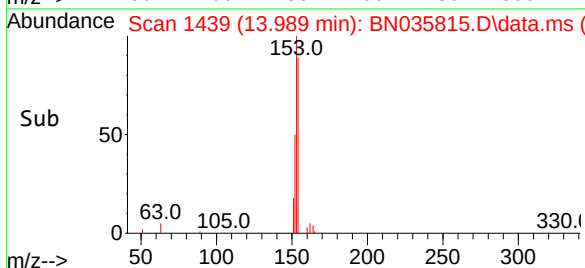
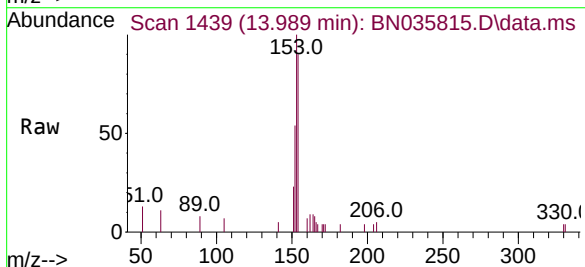
Manual Integrations
APPROVED

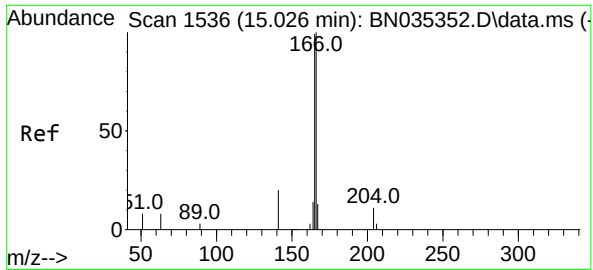
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.162 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

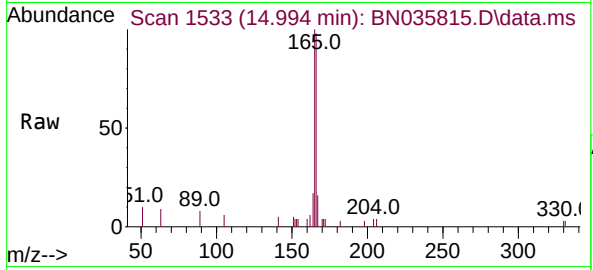
Tgt Ion:154 Resp: 1954
Ion Ratio Lower Upper
154 100
153 119.7 92.6 139.0
152 64.0 49.0 73.6





#18
Fluorene
Concen: 0.147 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

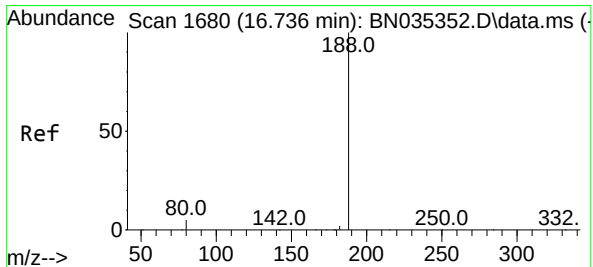
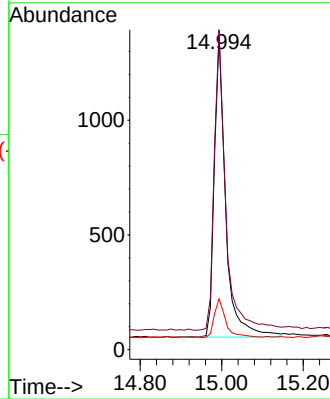
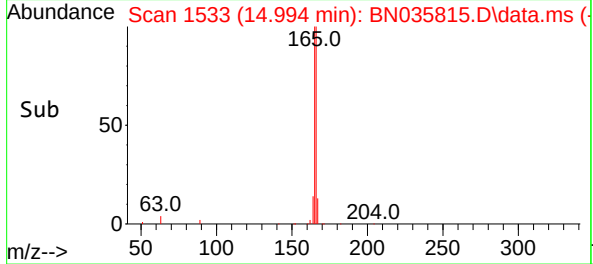
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:166 Resp: 254.0
Ion Ratio Lower Upper
166 100
165 100.0 79.7 119.5
167 12.9 10.8 16.2

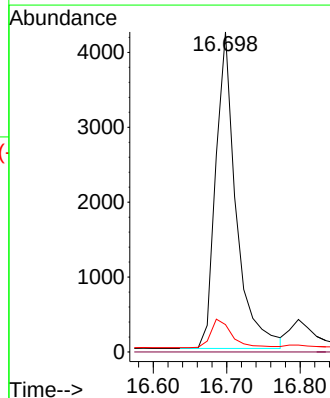
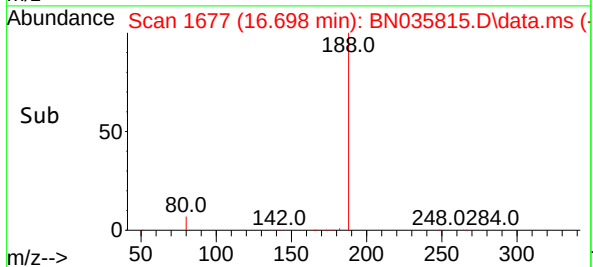
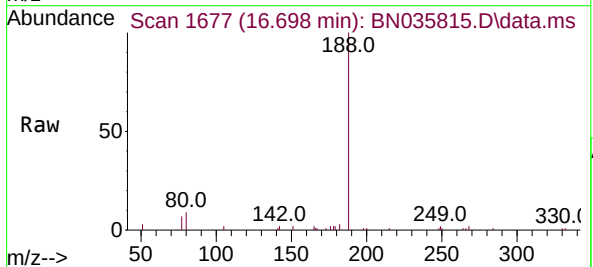
Manual Integrations
APPROVED

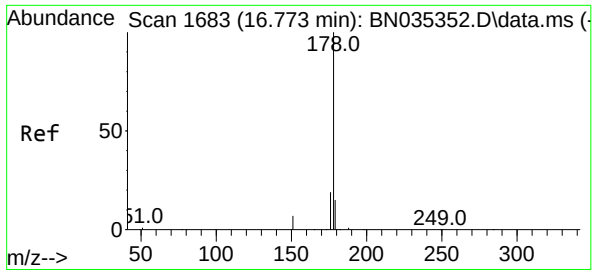
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

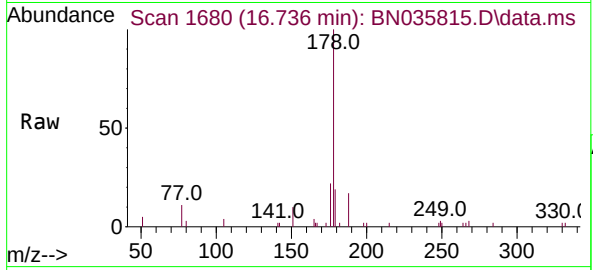
Tgt Ion:188 Resp: 8132
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.6 4.6 6.8





#25
Phenanthrene
Concen: 0.213 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

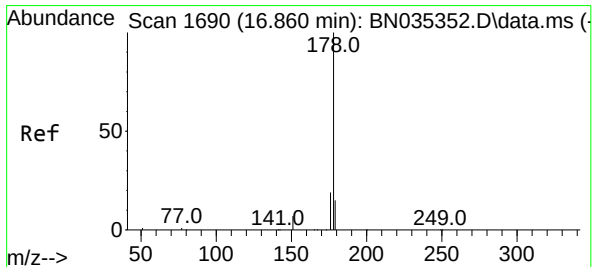
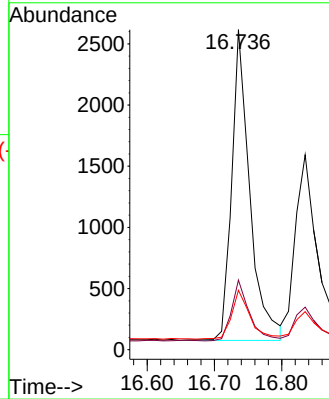
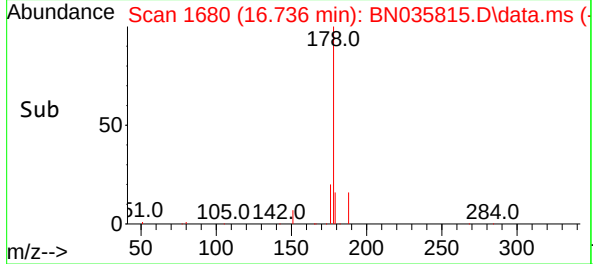
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:178 Resp: 4749
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 16.1 12.3 18.5

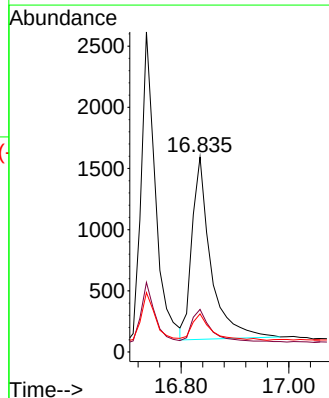
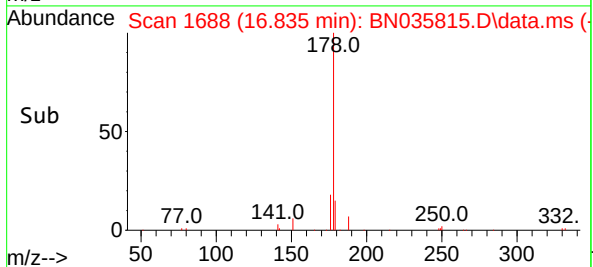
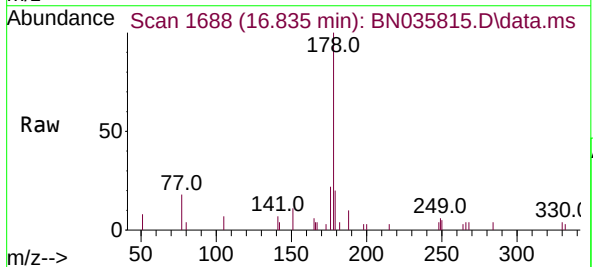
Manual Integrations
APPROVED

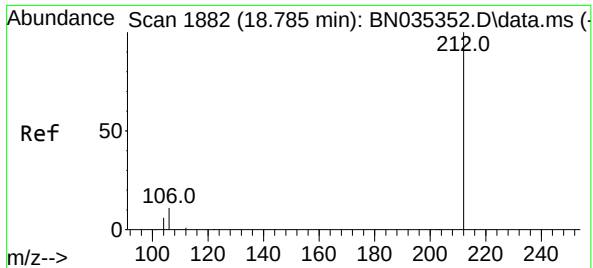
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.179 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 3615
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 18.747 min Scan# 1874

Delta R.T. -0.014 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

Tgt Ion:212 Resp: 908

Ion Ratio Lower Upper

212 100

106 11.4 9.2 13.8

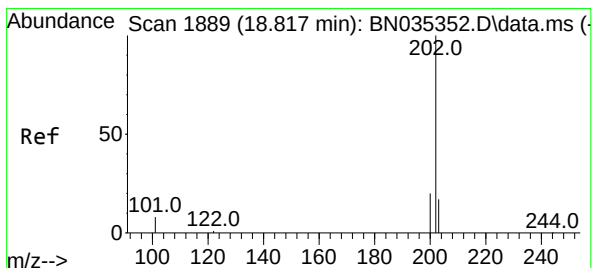
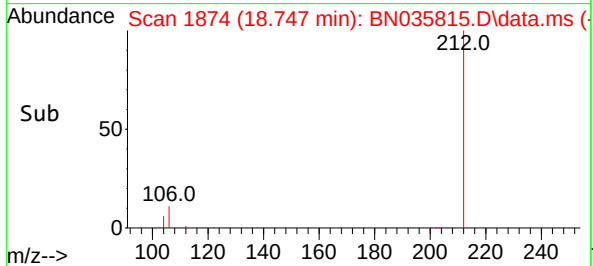
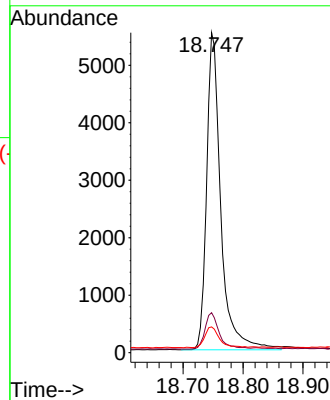
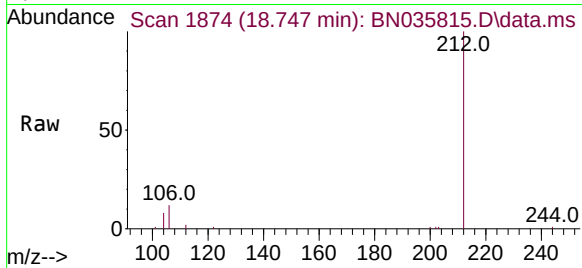
104 6.7 5.3 7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#28

Fluoranthene

Concen: 0.173 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.009 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

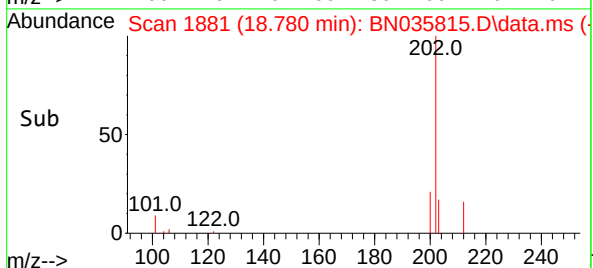
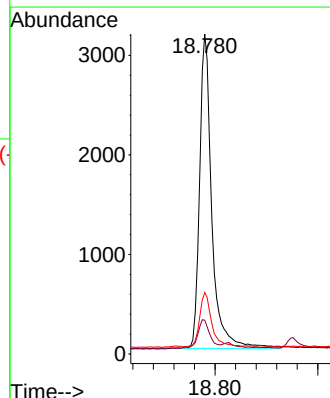
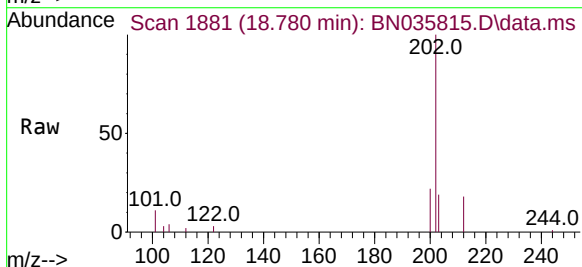
Tgt Ion:202 Resp: 5217

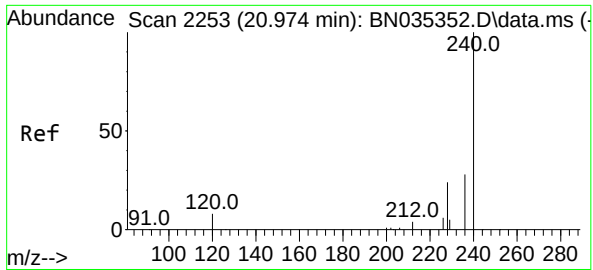
Ion Ratio Lower Upper

202 100

101 8.8 7.4 11.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

Tgt Ion:240 Resp: 6728

Ion Ratio Lower Upper

240 100

120 13.5 7.9 11.9

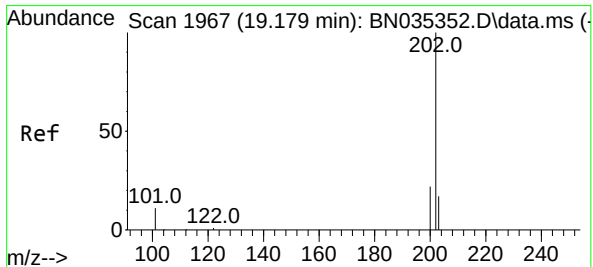
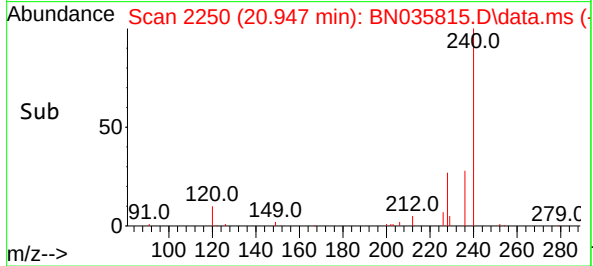
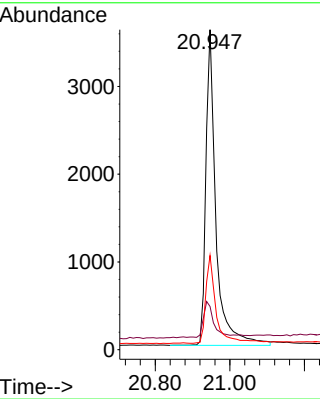
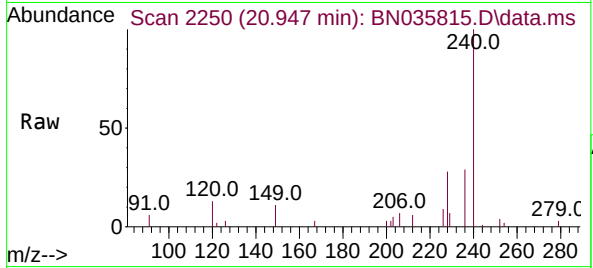
236 29.4 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.217 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

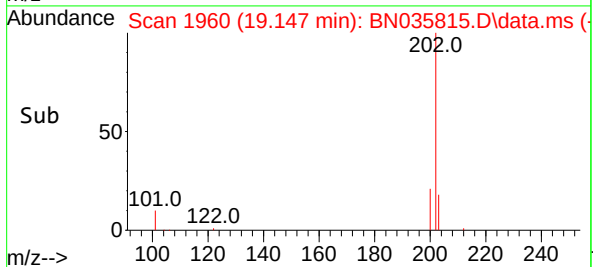
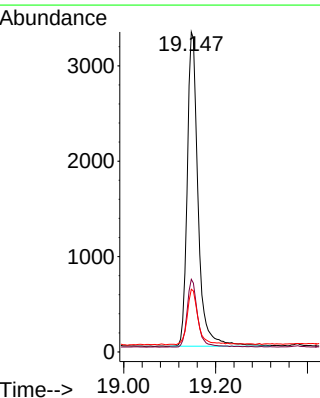
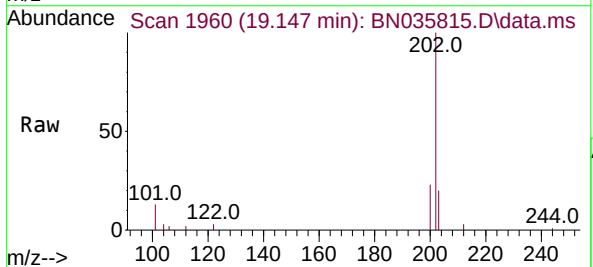
Tgt Ion:202 Resp: 5398

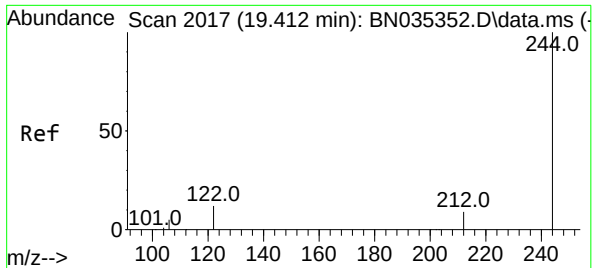
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

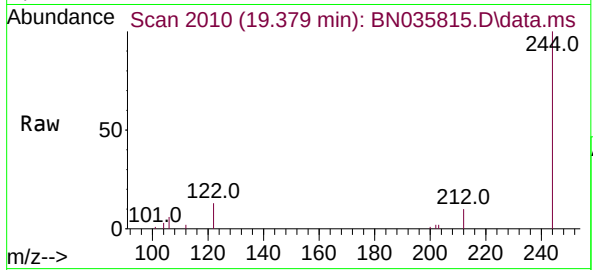
203 18.3 14.3 21.5





#31
Terphenyl-d14
Concen: 0.536 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

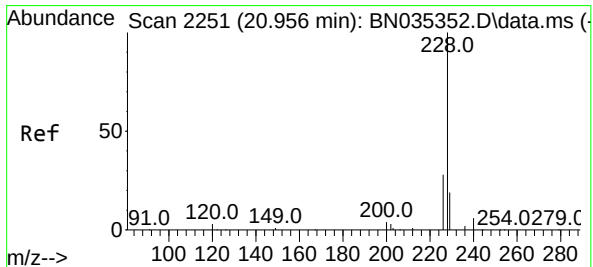
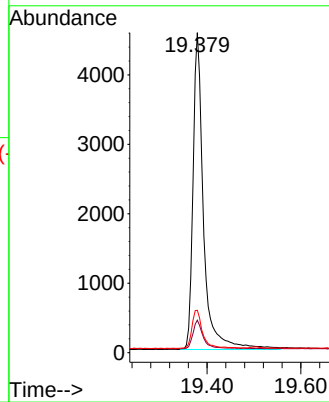
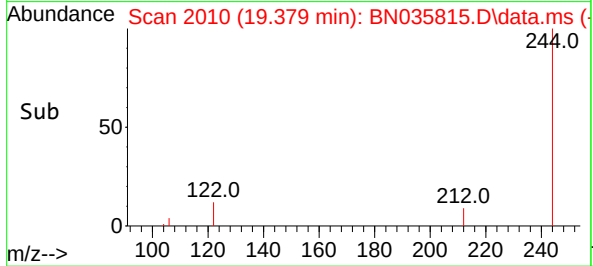
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:244 Resp: 711
Ion Ratio Lower Upper
244 100
212 10.1 8.1 12.1
122 13.2 10.3 15.5

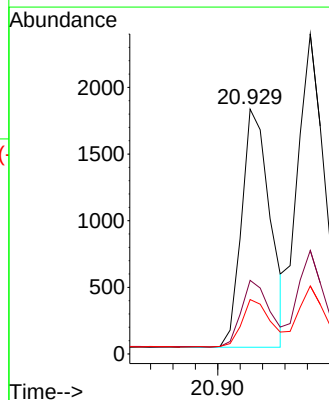
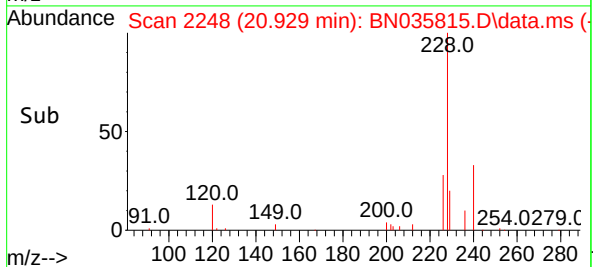
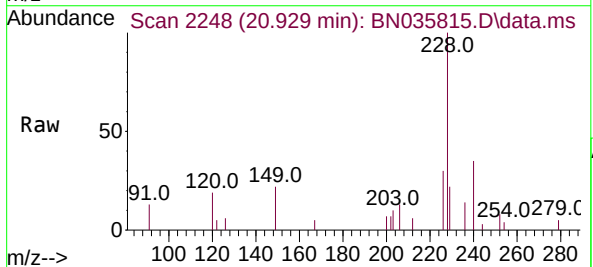
Manual Integrations
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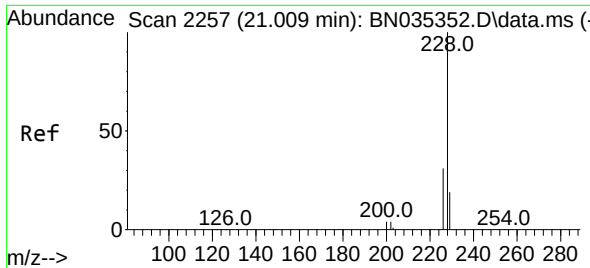
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.134 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

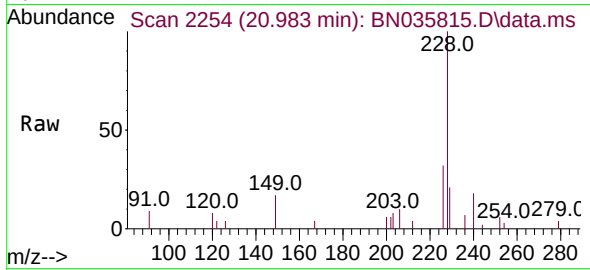
Tgt Ion:228 Resp: 3164
Ion Ratio Lower Upper
228 100
226 30.0 22.5 33.7
229 22.2 15.8 23.8





#33
Chrysene
Concen: 0.187 ng
RT: 20.983 min Scan# 2115
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

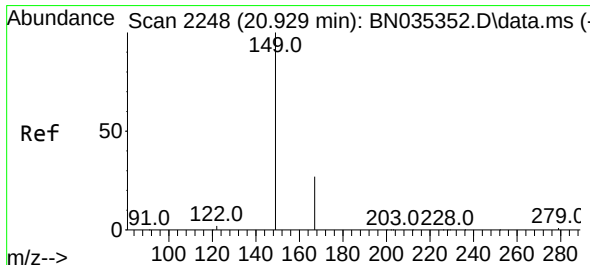
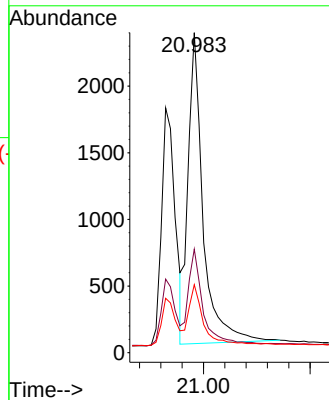
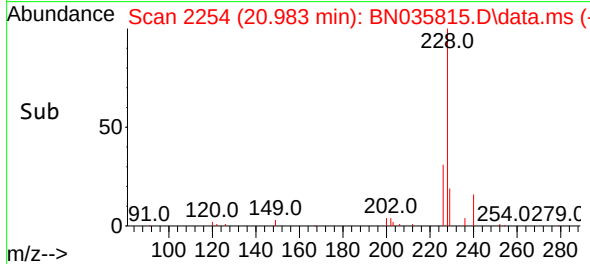
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:228 Resp: 452
Ion Ratio Lower Upper
228 100
226 32.4 24.6 37.0
229 21.2 15.9 23.9

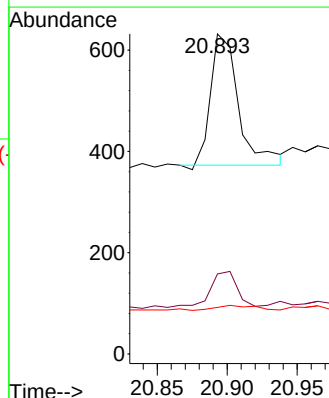
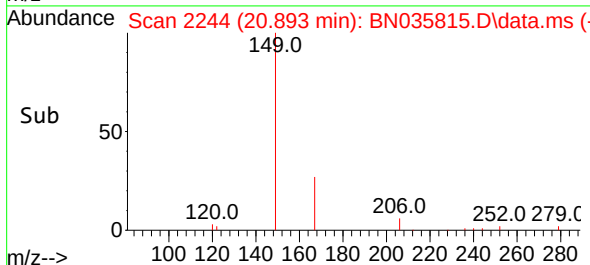
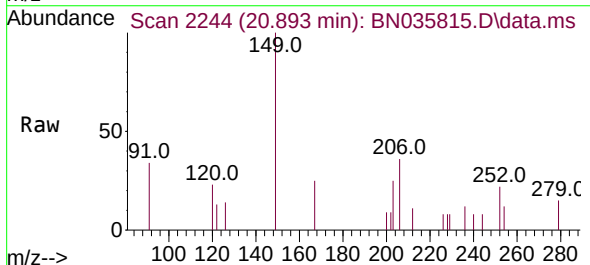
Manual Integrations
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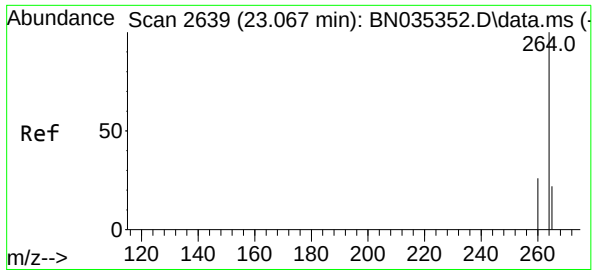
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.038 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

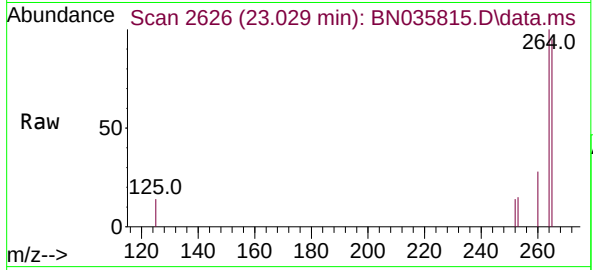
Tgt Ion:149 Resp: 357
Ion Ratio Lower Upper
149 100
167 26.9 22.2 33.4
279 4.5 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

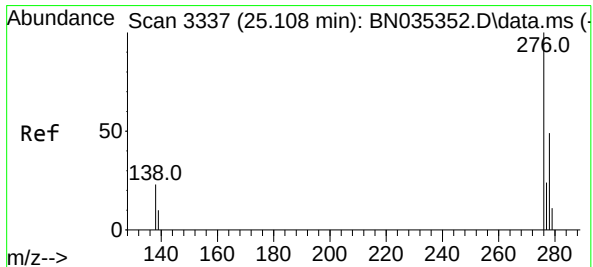
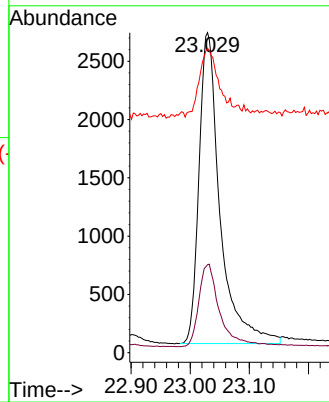
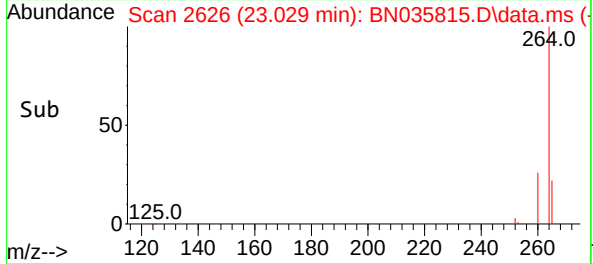
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



Tgt Ion:264 Resp: 6588
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 95.1 40.2 60.4

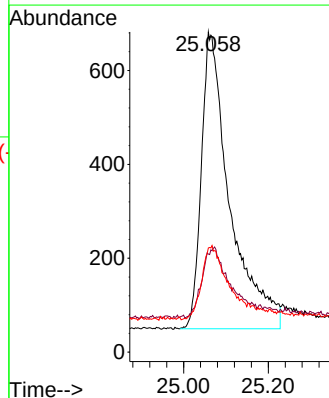
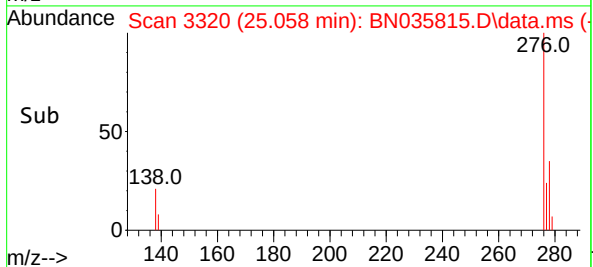
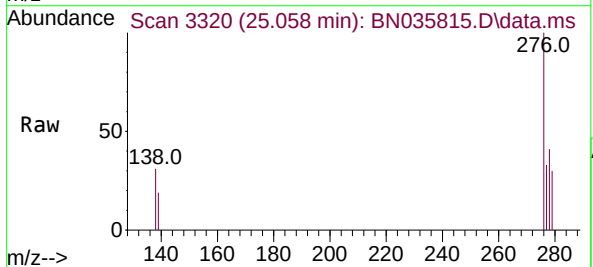
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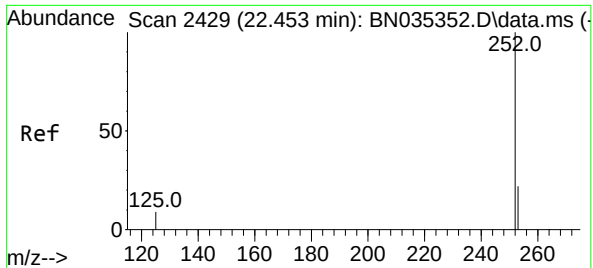
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.115 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 2949
Ion Ratio Lower Upper
276 100
138 22.4 19.4 29.0
277 22.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.189 ng

RT: 22.421 min Scan# 2418

Delta R.T. -0.009 min

Lab File: BN035815.D

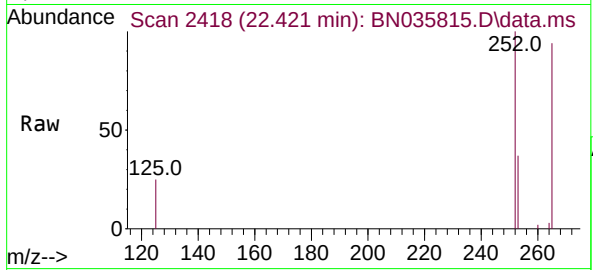
Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218



Tgt Ion:252 Resp: 454

Ion Ratio Lower Upper

252 100

253 37.2 19.6 29.4

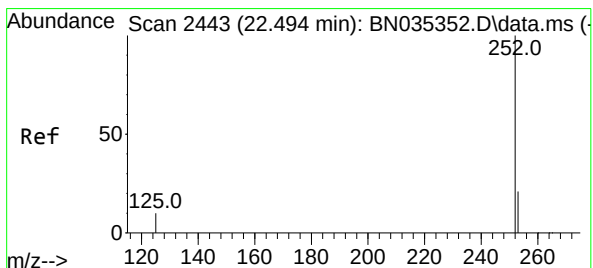
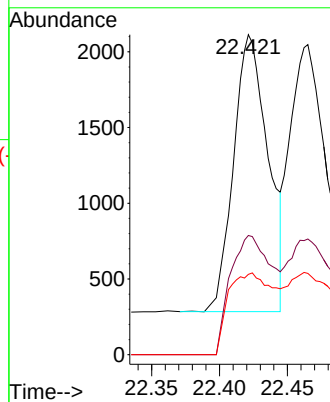
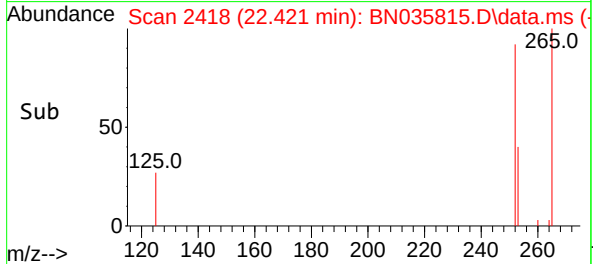
125 25.1 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.149 ng

RT: 22.465 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

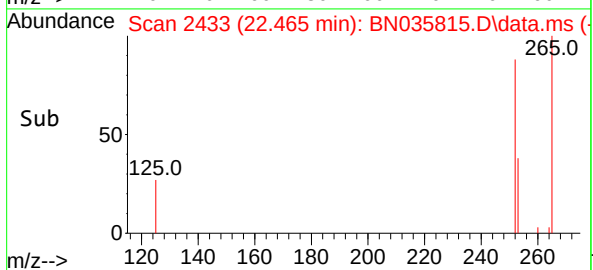
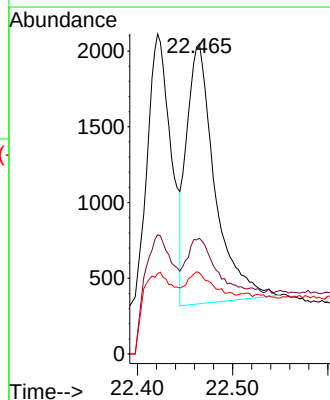
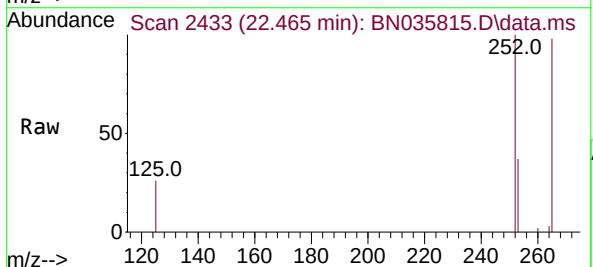
Tgt Ion:252 Resp: 3529

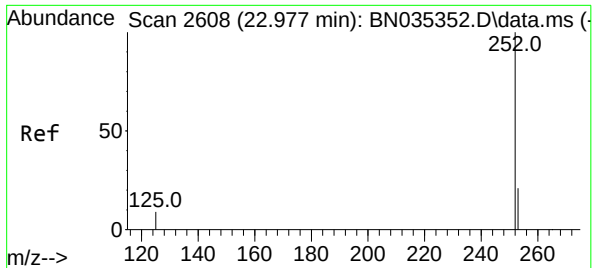
Ion Ratio Lower Upper

252 100

253 37.3 19.5 29.3

125 26.2 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.135 ng

RT: 22.945 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

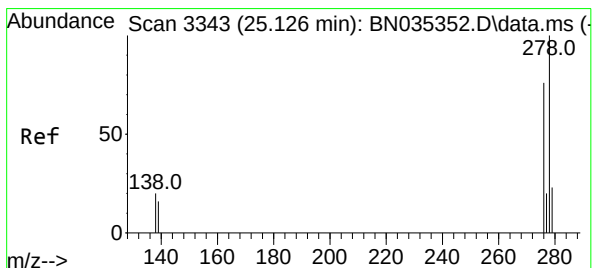
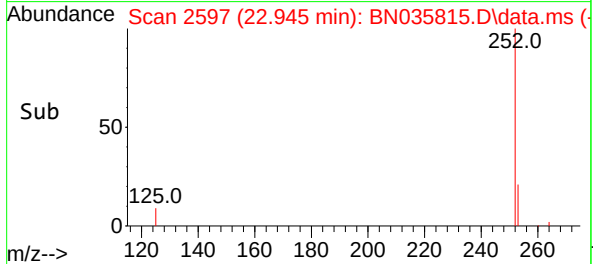
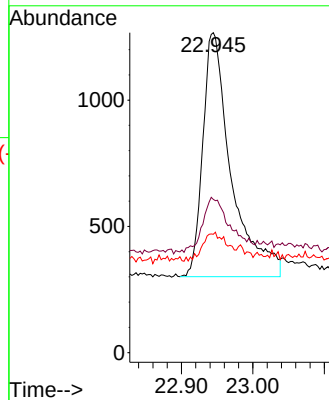
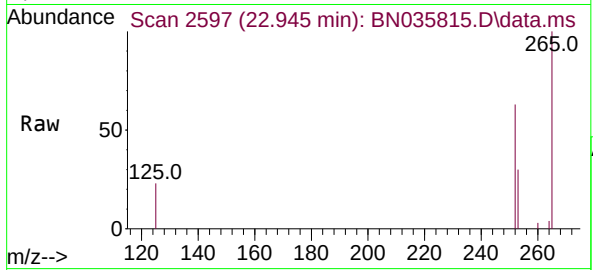
TT150S1-20241218

Tgt Ion:	252	Resp:	267
Ion Ratio	Lower	Upper	
252	100		
253	47.9	20.2	30.4
125	37.0	10.9	16.3

Manual Integrations

APPROVED

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



#40

Dibenzo(a,h)anthracene

Concen: 0.107 ng

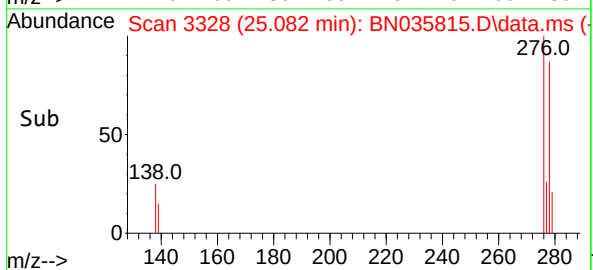
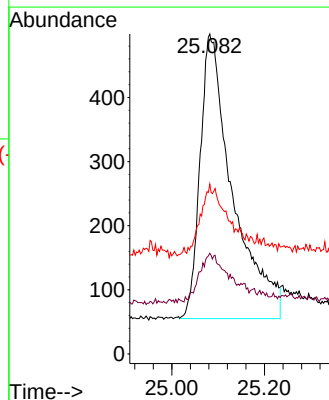
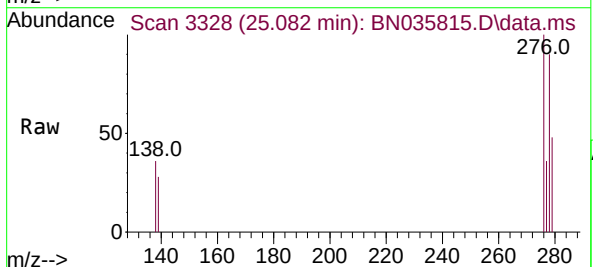
RT: 25.082 min Scan# 3328

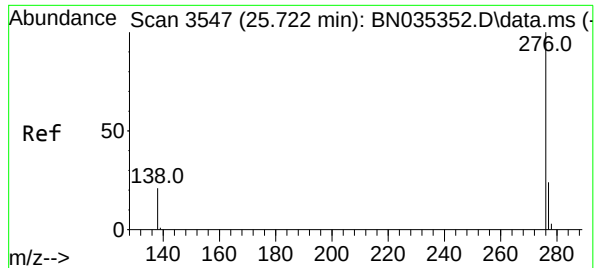
Delta R.T. -0.000 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Tgt Ion:	278	Resp:	2170
Ion Ratio	Lower	Upper	
278	100		
139	31.5	14.2	21.4
279	53.1	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.113 ng

RT: 25.672 min Scan# 3

Delta R.T. -0.006 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

Tgt Ion:276 Resp: 2390

Ion Ratio Lower Upper

276 100

277 32.0 19.9 29.9

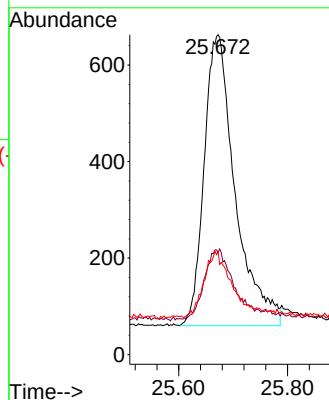
138 32.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RE115D2-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN035816.D	1	12/23/24 13:29	12/24/24 11:57	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.60	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3280		7.264			
1146-65-2	Naphthalene-d8	7770		10.009			
15067-26-2	Acenaphthene-d10	4980		13.925			
1517-22-2	Phenanthrene-d10	10100		16.698			
1719-03-5	Chrysene-d12	8870		20.947			
1520-96-3	Perylene-d12	8760		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 : BN035816.D
 Acq On : 24 Dec 2024 11:57
 Operator : RC/JU
 Sample : P5376-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:17:25 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	3275	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7772	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4979	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10106	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8871	0.400	ng	0.00
35) Perylene-d12	23.032	264	8758	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	753	0.092	ng	-0.01
5) Phenol-d6	6.477	99	383	0.039	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1575m	0.332	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	3538	0.291	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	586	0.166	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6110	0.325	ng	0.00
27) Fluoranthene-d10	18.752	212	10407	0.363	ng	0.00
31) Terphenyl-d14	19.379	244	8030	0.459	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	23179	7.403	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	310	0.037	ng	93
9) Naphthalene	10.052	128	1561	0.076	ng	# 80
12) 2-Methylnaphthalene	11.697	142	932	0.064	ng	# 87
16) Acenaphthylene	13.636	152	1554	0.074	ng	99
17) Acenaphthene	13.989	154	972	0.070	ng	97
18) Fluorene	14.994	166	1321	0.066	ng	98
25) Phenanthrene	16.736	178	2623	0.094	ng	99
26) Anthracene	16.835	178	1938	0.077	ng	98
28) Fluoranthene	18.780	202	3054	0.082	ng	99
30) Pyrene	19.152	202	3188	0.097	ng	99
32) Benzo(a)anthracene	20.929	228	1910	0.062	ng	93
33) Chrysene	20.983	228	2737	0.086	ng	94
34) Bis(2-ethylhexyl)phtha...	20.893	149	623	0.051	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.073	276	1728	0.050	ng	# 68
37) Benzo(b)fluoranthene	22.424	252	2429	0.076	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	1987	0.063	ng	# 51
39) Benzo(a)pyrene	22.948	252	1503	0.057	ng	# 21
40) Dibenzo(a,h)anthracene	25.088	278	1220	0.045	ng	# 30
41) Benzo(g,h,i)perylene	25.678	276	1434	0.051	ng	# 72

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

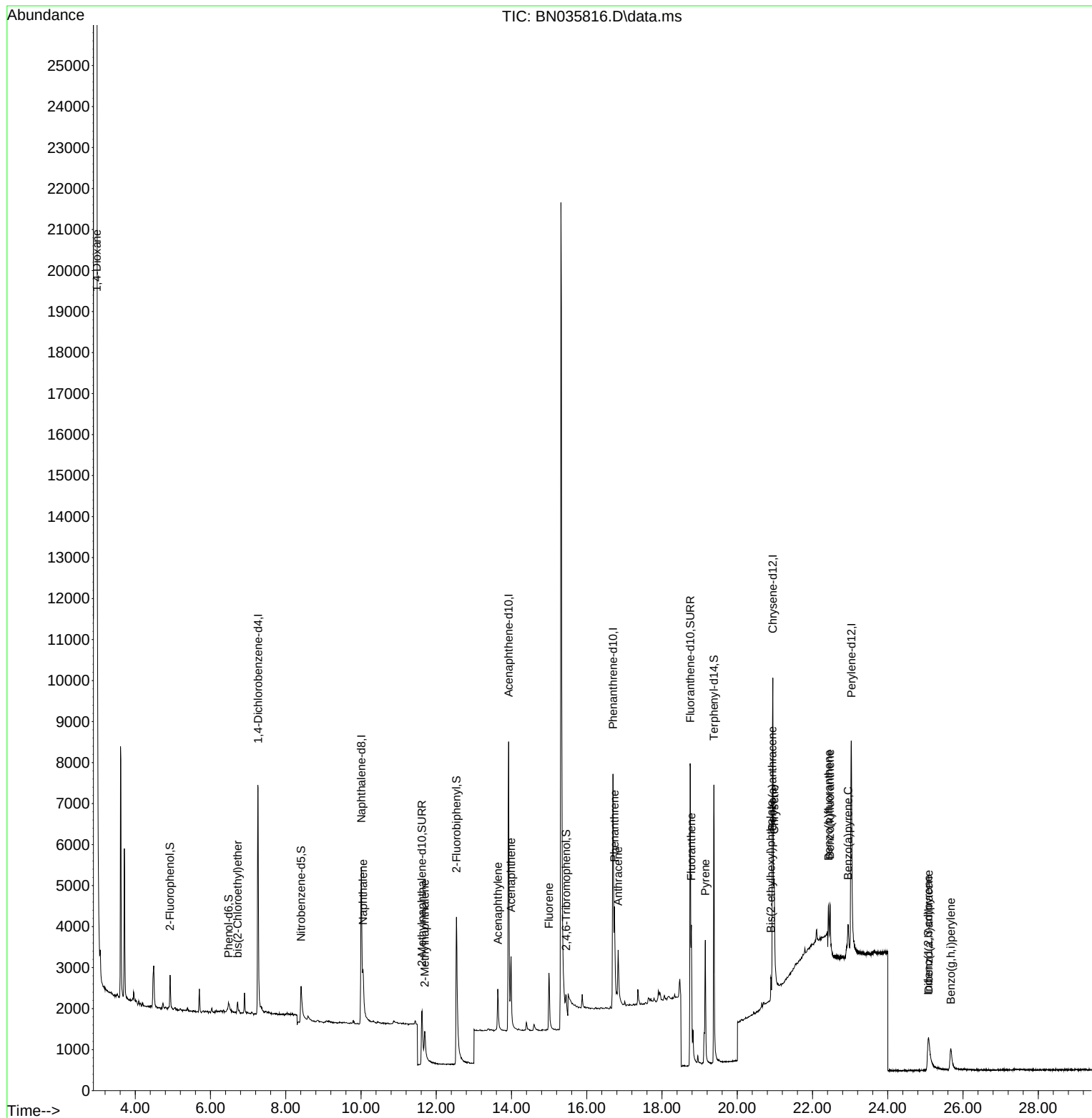
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Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

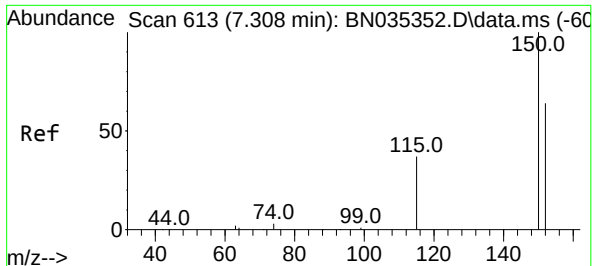
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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Supervised By :mohammad ahmed 12/26/2024

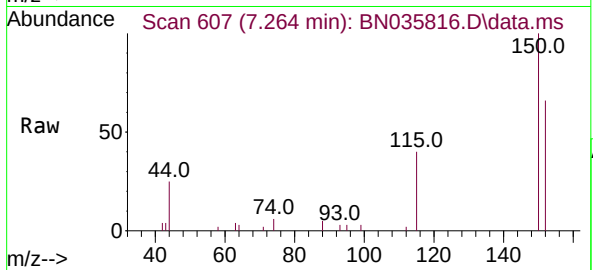
Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

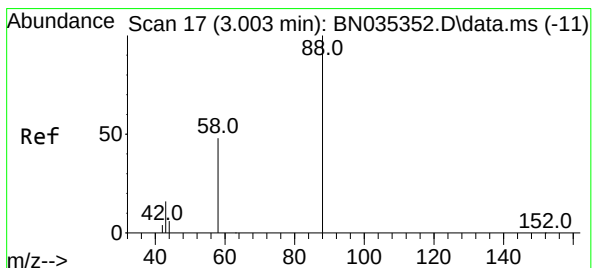
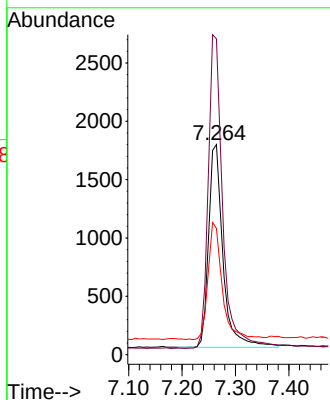
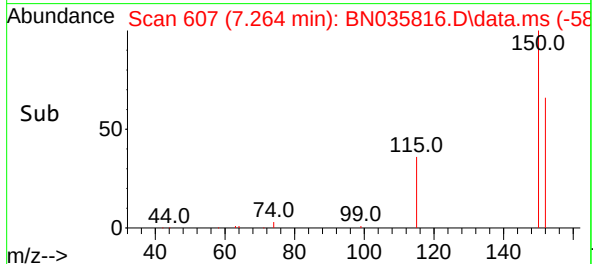
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:152 Resp: 3275
Ion Ratio Lower Upper
152 100
150 150.4 124.0 186.0
115 60.1 49.6 74.4

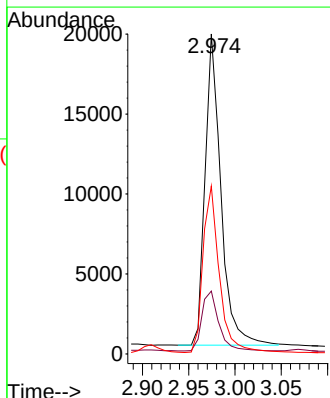
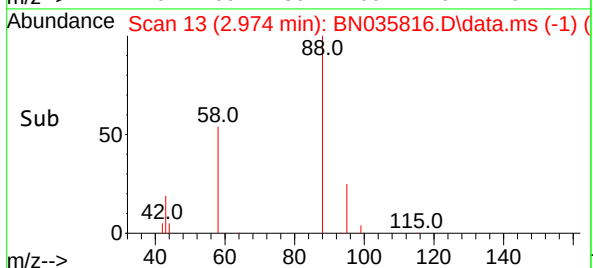
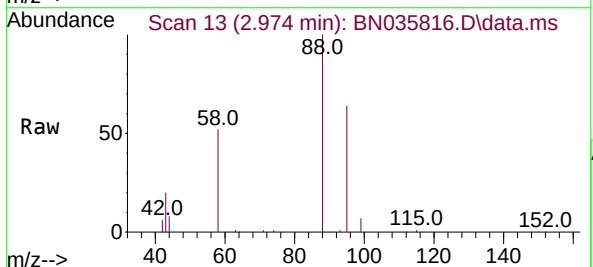
Manual Integrations
APPROVED

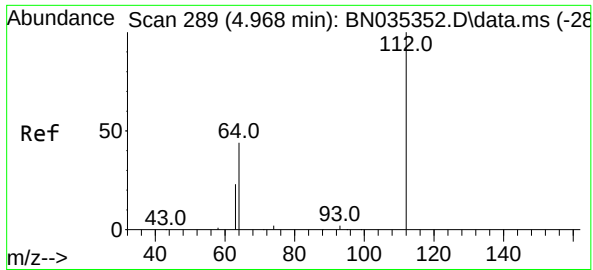
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 7.403 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 88 Resp: 23179
Ion Ratio Lower Upper
88 100
43 20.6 17.2 25.8
58 55.1 44.5 66.7





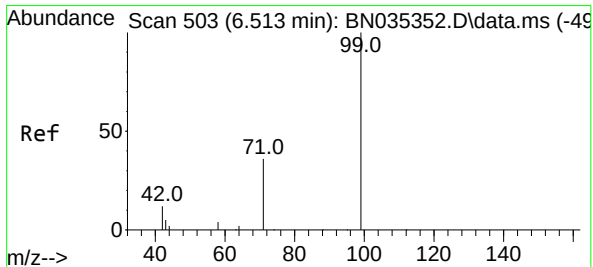
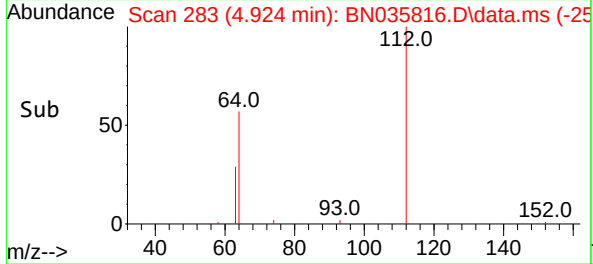
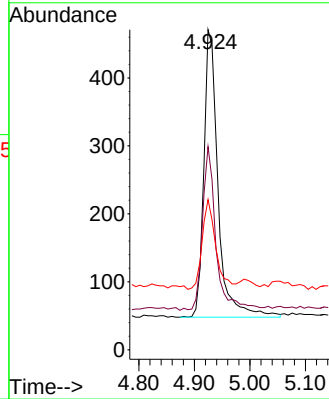
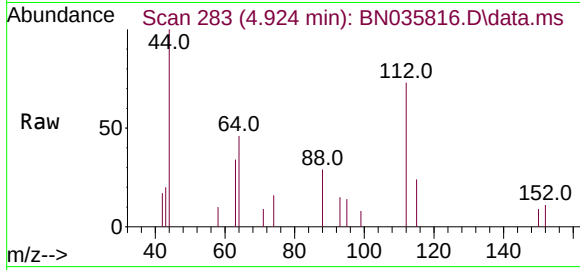
#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion: 112 Resp: 75
Ion Ratio Lower Upper
112 100
64 53.0 39.8 59.8
63 29.3 21.0 31.6

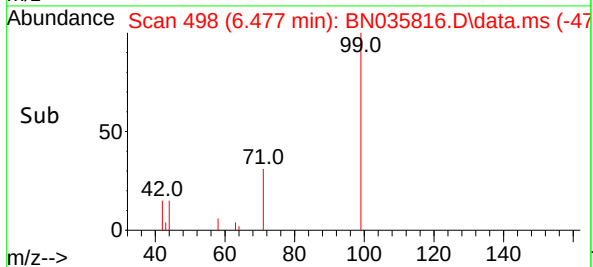
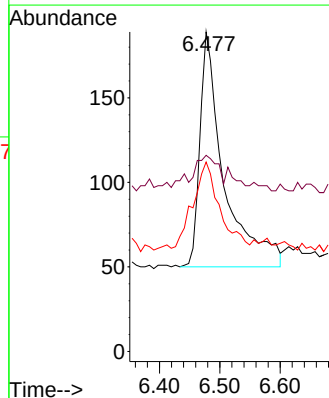
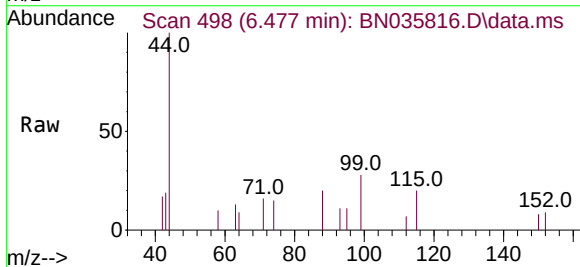
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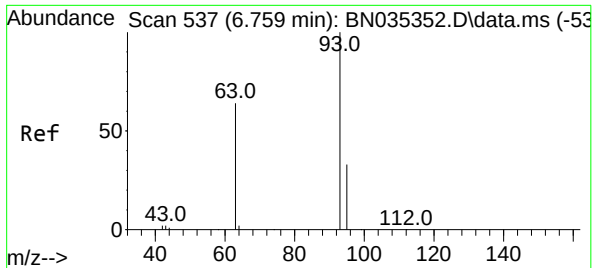
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.039 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 99 Resp: 383
Ion Ratio Lower Upper
99 100
42 13.8 11.4 17.2
71 44.4 29.3 43.9#





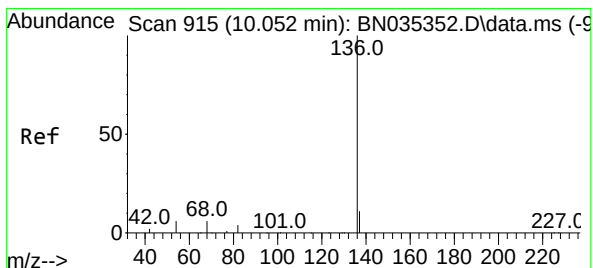
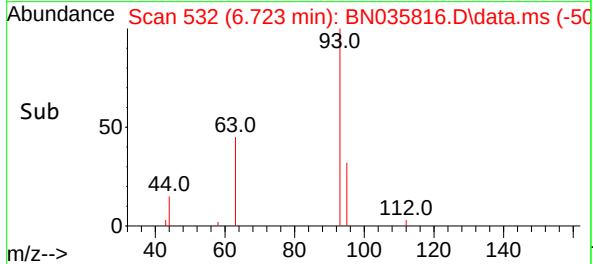
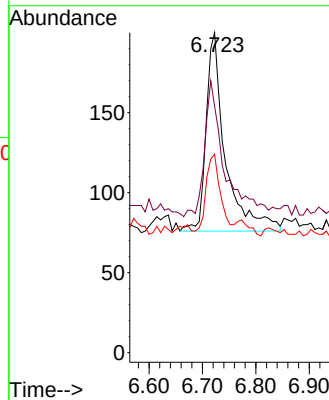
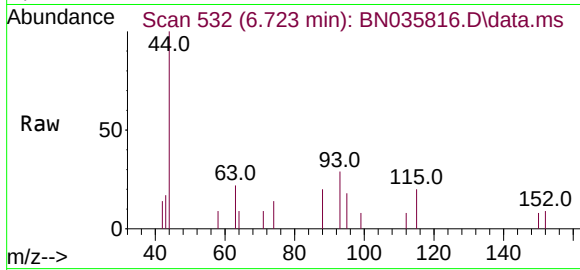
#6
bis(2-Chloroethyl)ether
Concen: 0.037 ng
RT: 6.723 min Scan# 510
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion: 93 Resp: 310
Ion Ratio Lower Upper
93 100
63 70.6 50.4 75.6
95 31.3 25.7 38.5

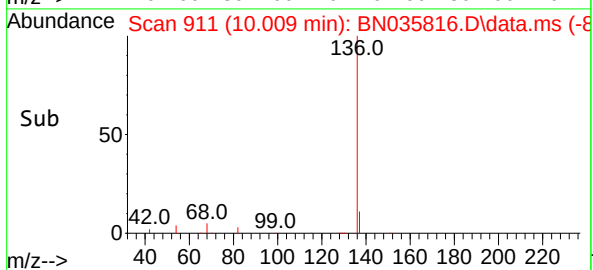
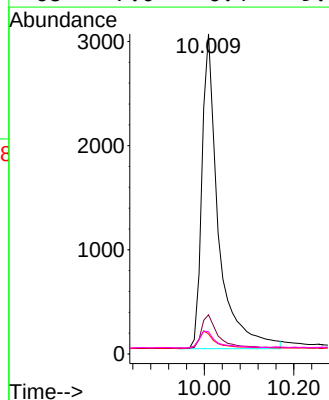
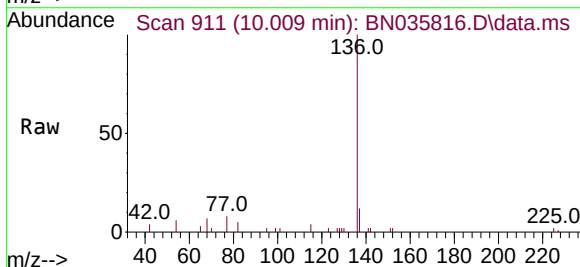
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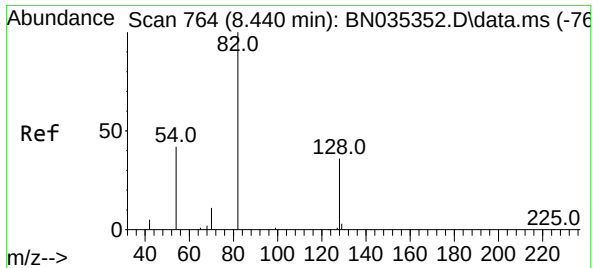
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:136 Resp: 7772
Ion Ratio Lower Upper
136 100
137 12.2 10.2 15.2
54 6.3 6.1 9.1
68 7.0 6.4 9.6





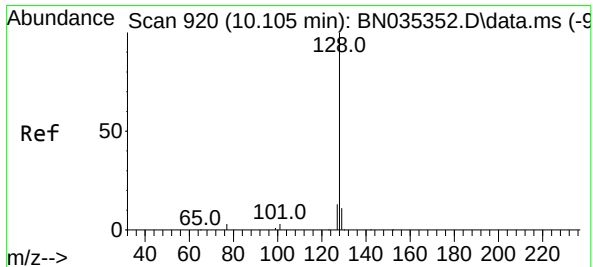
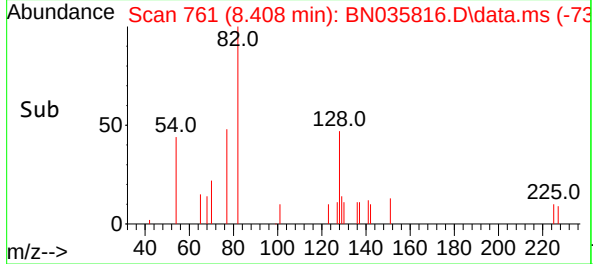
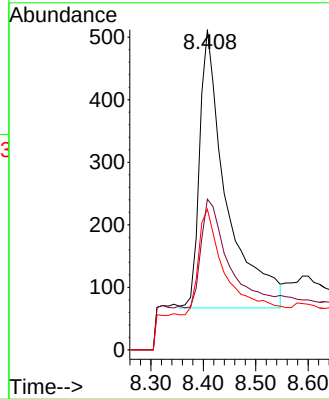
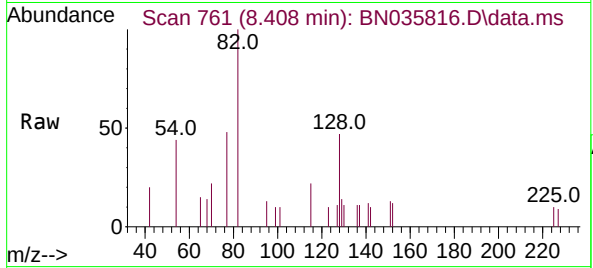
#8
Nitrobenzene-d5
Concen: 0.332 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion: 82 Resp: 1574
Ion Ratio Lower Upper
82 100
128 47.1 33.4 50.0
54 43.9 36.7 55.1

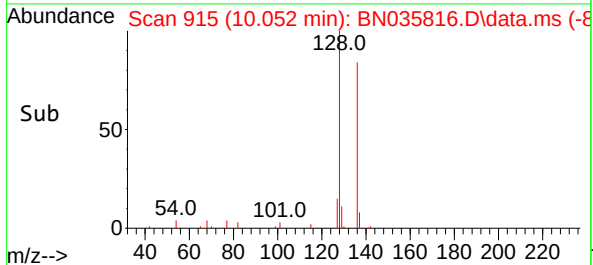
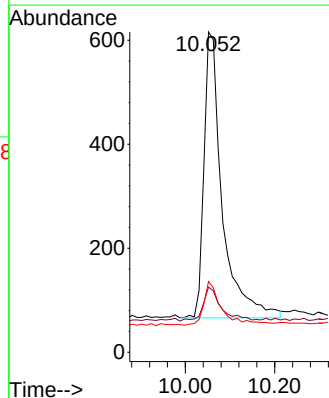
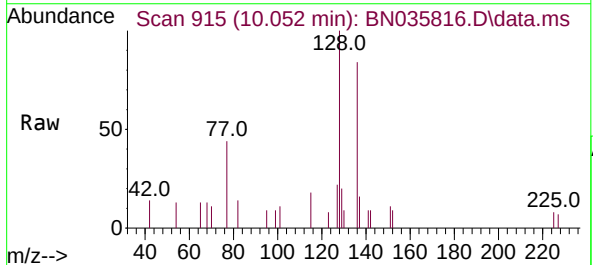
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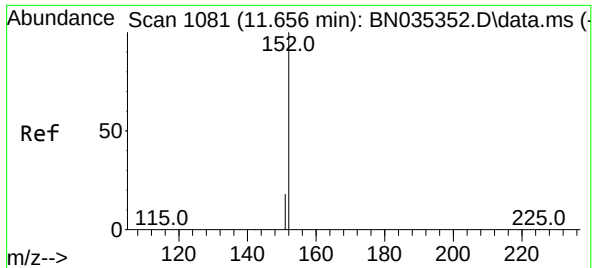
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#9
Naphthalene
Concen: 0.076 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

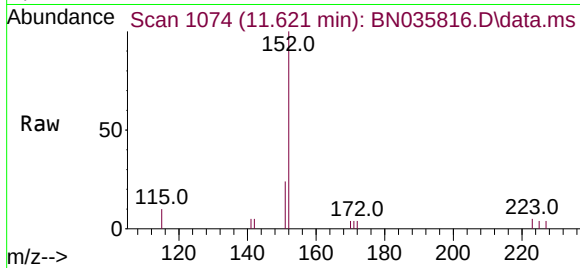
Tgt Ion:128 Resp: 1561
Ion Ratio Lower Upper
128 100
129 20.3 9.8 14.6#
127 22.1 11.4 17.2#





#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 11.621 min Scan# 1080
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

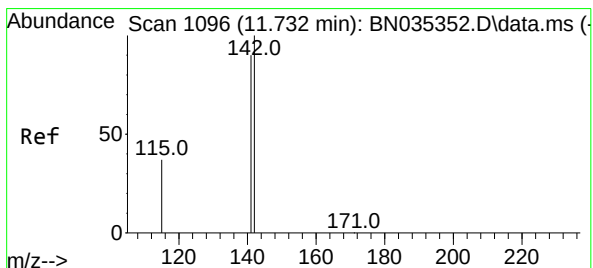
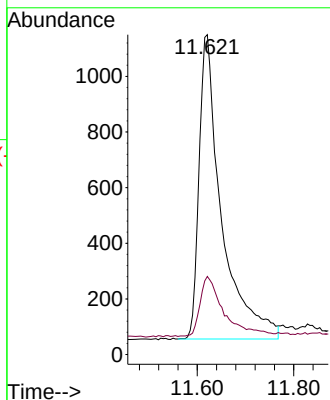
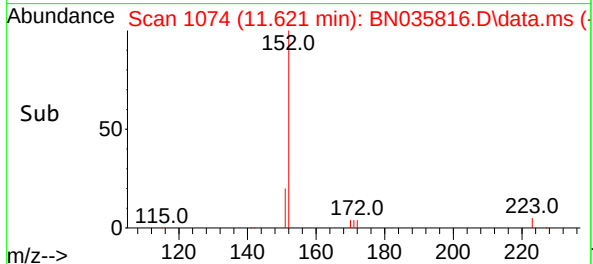
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:152 Resp: 3538
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

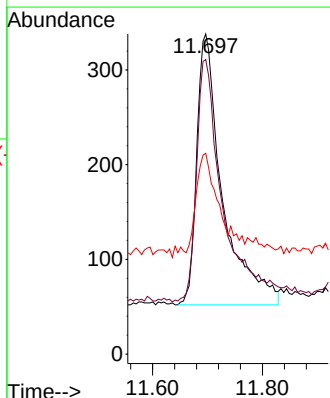
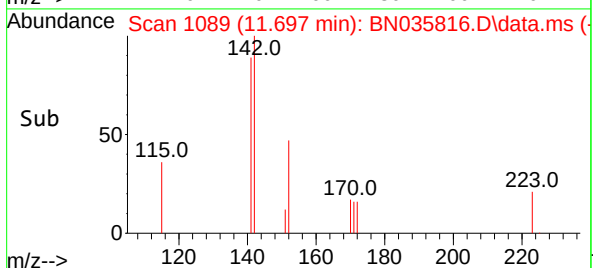
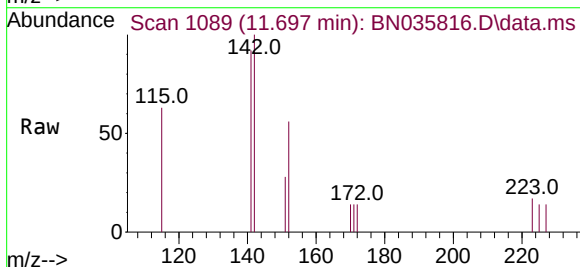
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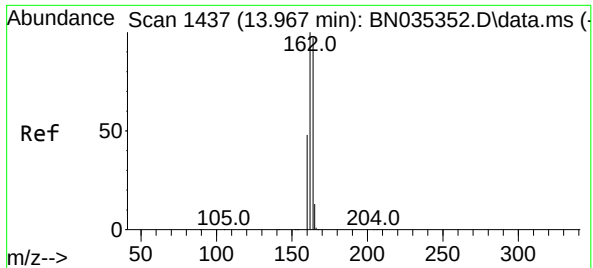
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

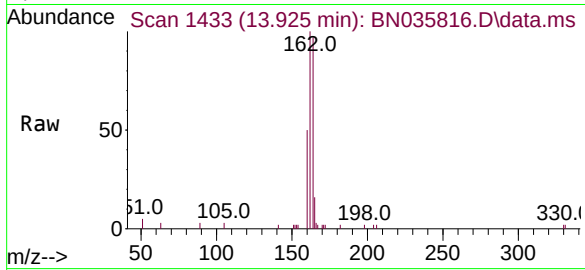
Tgt Ion:142 Resp: 932
Ion Ratio Lower Upper
142 100
141 92.0 72.2 108.4
115 62.7 31.4 47.0#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

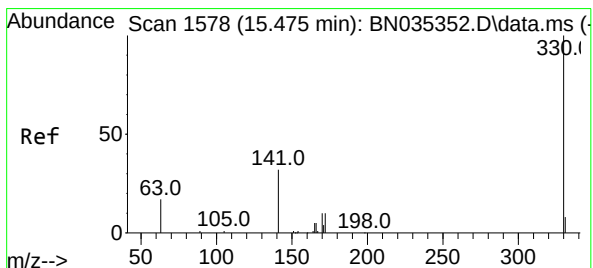
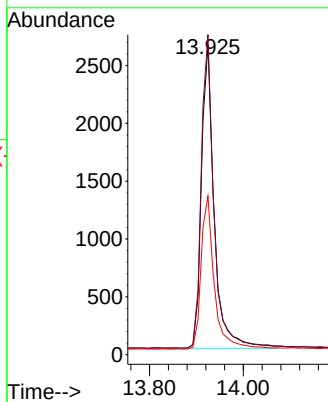
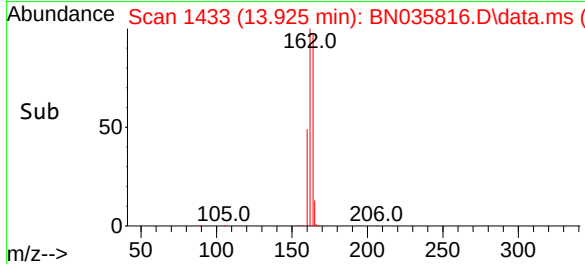
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:164 Resp: 4979
Ion Ratio Lower Upper
164 100
162 103.3 82.2 123.2
160 51.2 40.1 60.1

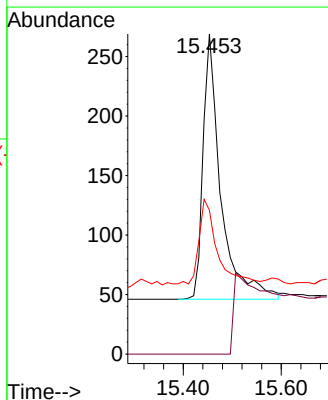
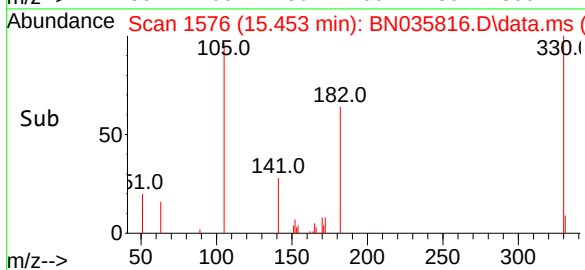
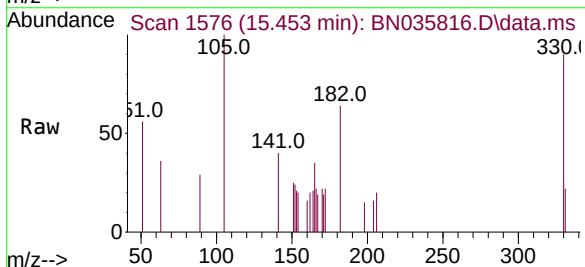
Manual Integrations
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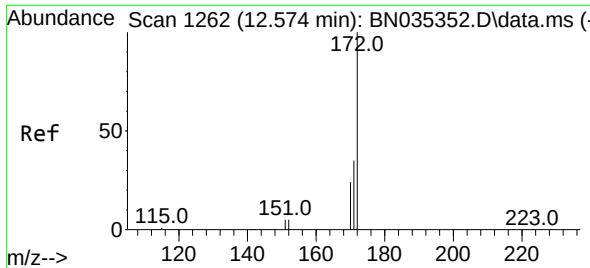
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.166 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

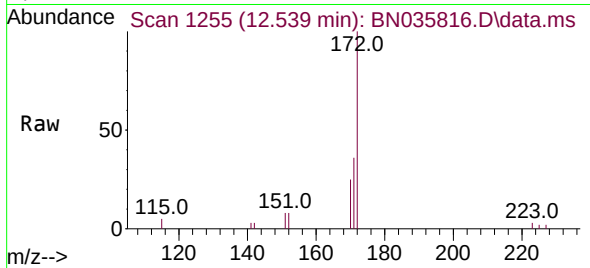
Tgt Ion:330 Resp: 586
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.6 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

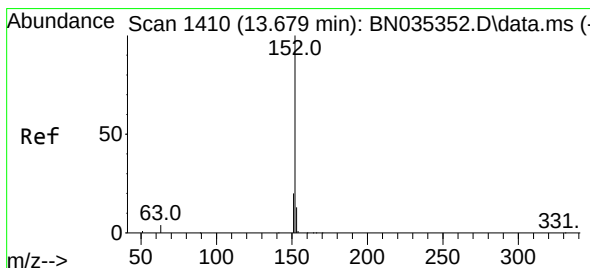
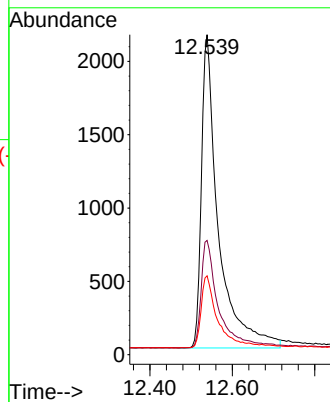
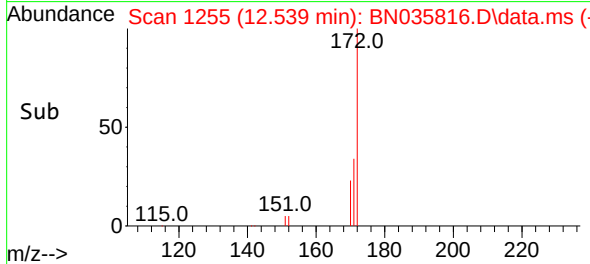
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



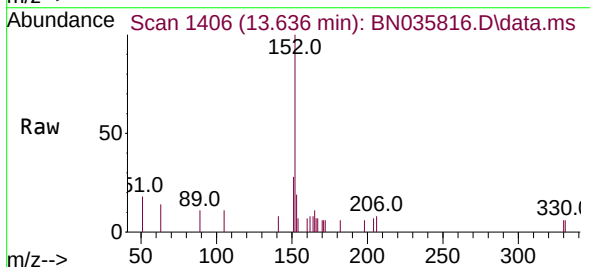
Tgt Ion:172 Resp: 6110
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 24.7 19.8 29.8

Manual Integrations
APPROVED

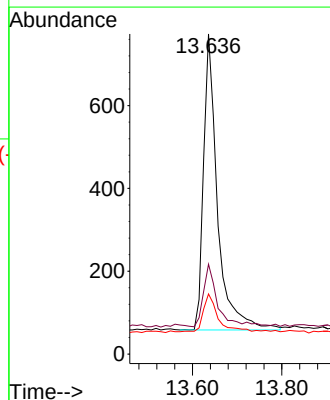
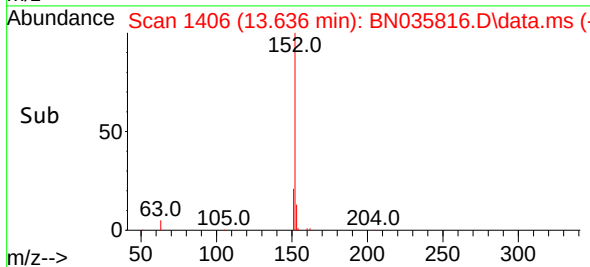
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

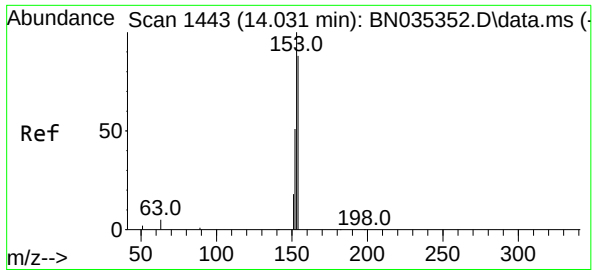


#16
Acenaphthylene
Concen: 0.074 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57



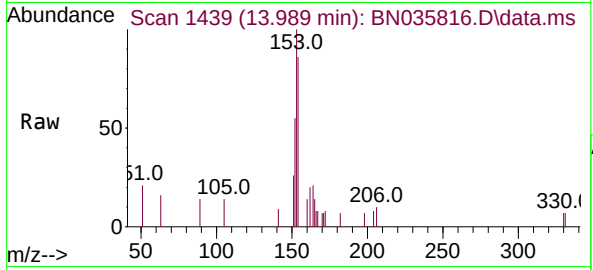
Tgt Ion:152 Resp: 1554
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.070 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

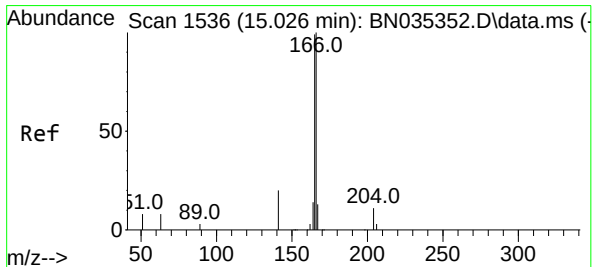
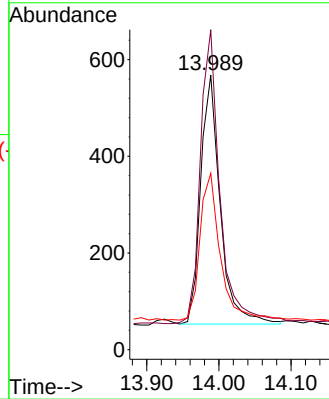
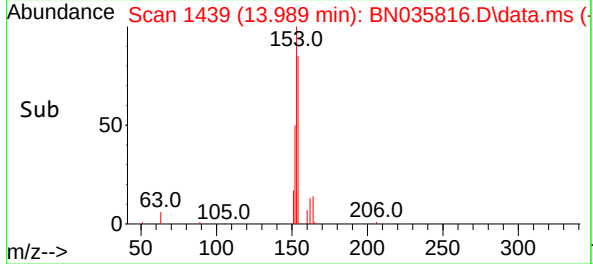
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:154 Resp: 972
Ion Ratio Lower Upper
154 100
153 119.9 92.6 139.0
152 61.5 49.0 73.6

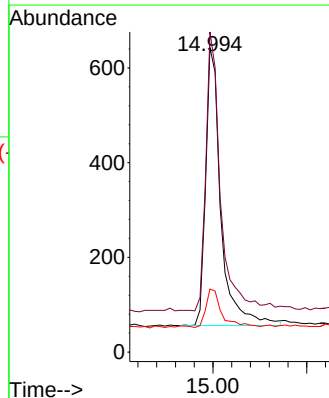
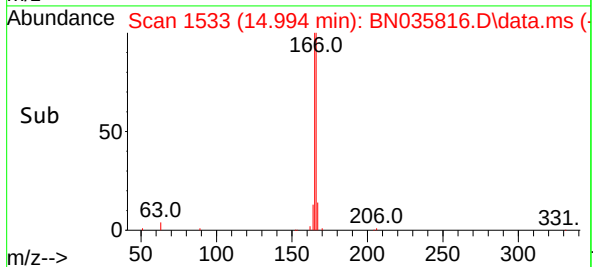
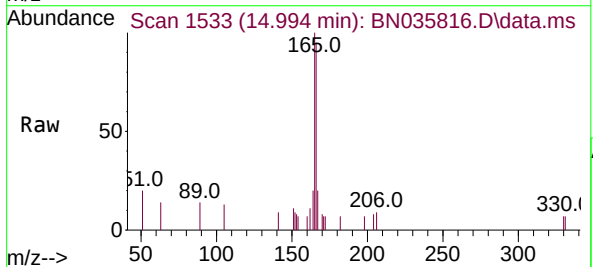
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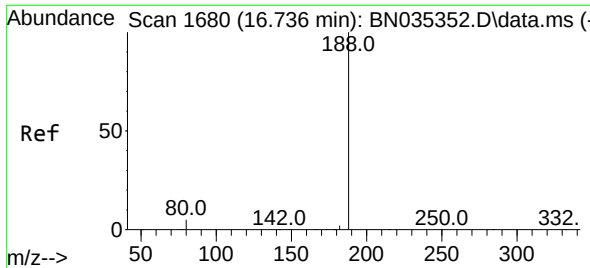
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.066 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:166 Resp: 1321
Ion Ratio Lower Upper
166 100
165 97.3 79.7 119.5
167 14.5 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: BN035816.D

Acq: 24 Dec 2024 11:57

Instrument :

BNA_N

ClientSampleId :

RE115D2-20241218

Tgt Ion:188 Resp: 10100

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

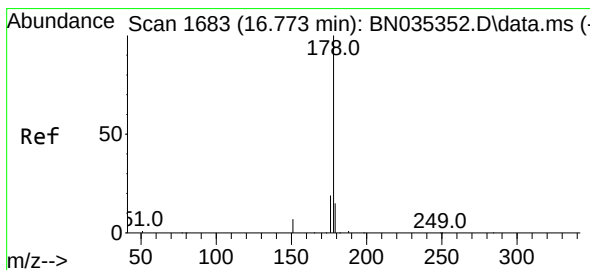
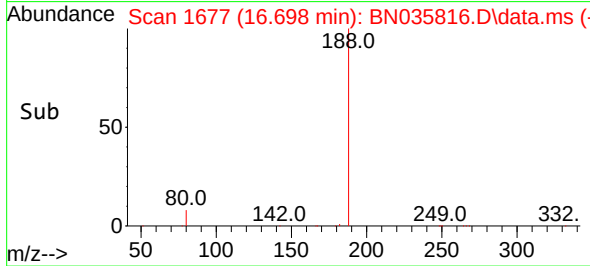
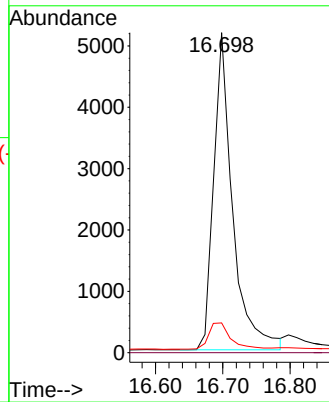
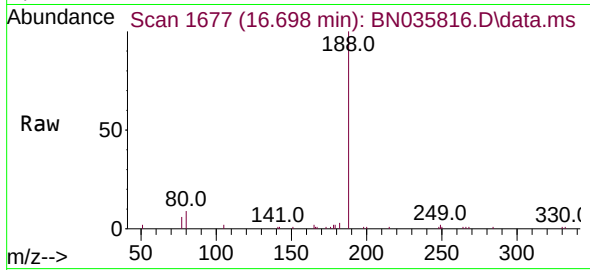
80 9.3 4.6 6.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#25

Phenanthrene

Concen: 0.094 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035816.D

Acq: 24 Dec 2024 11:57

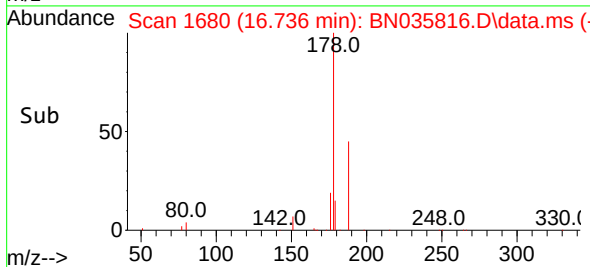
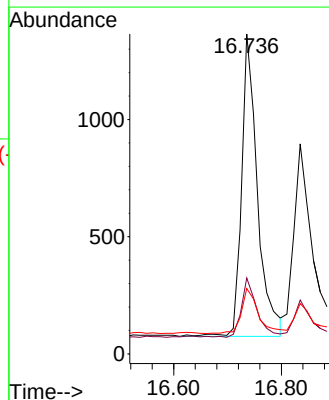
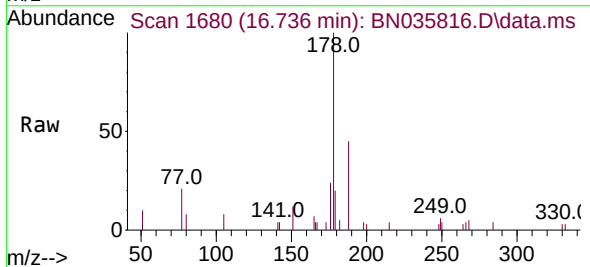
Tgt Ion:178 Resp: 2623

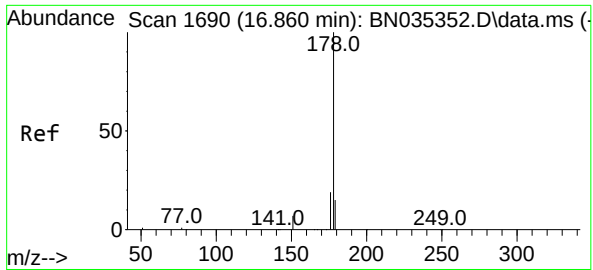
Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

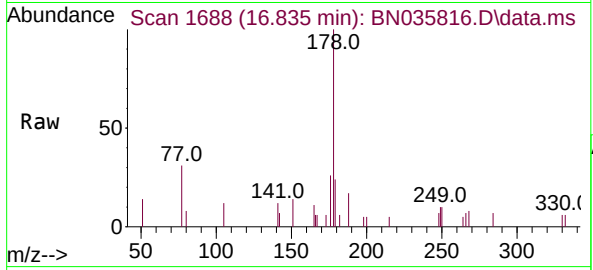
179 15.7 12.3 18.5





#26
Anthracene
Concen: 0.077 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

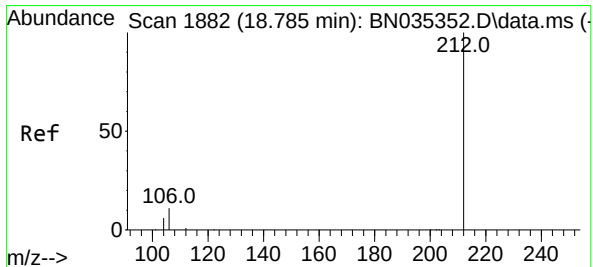
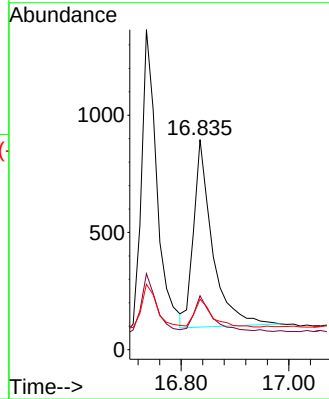
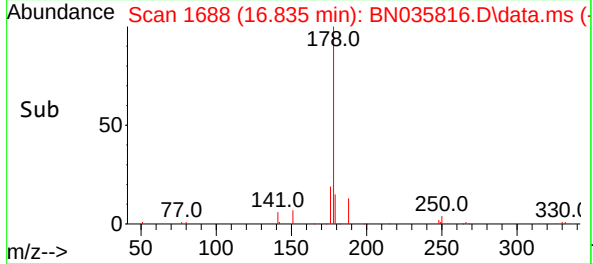
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:178 Resp: 1938
Ion Ratio Lower Upper
178 100
176 19.3 15.0 22.6
179 14.3 12.6 18.8

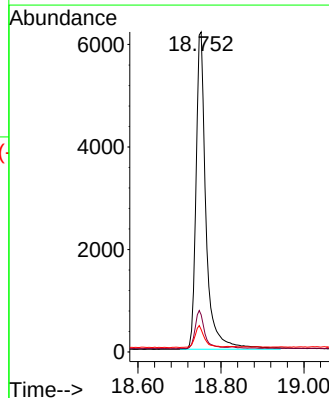
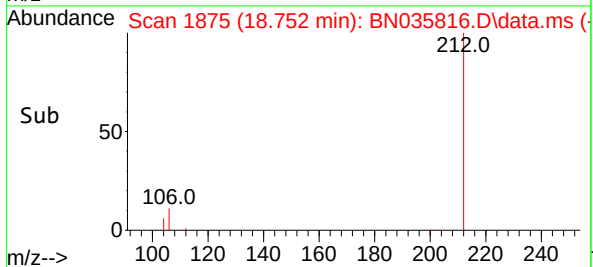
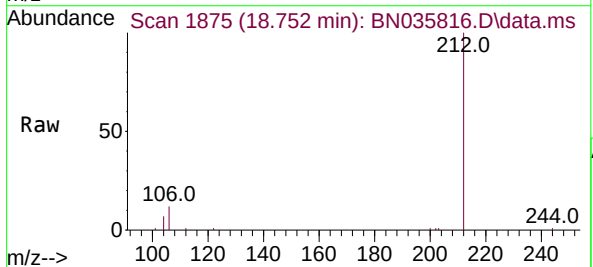
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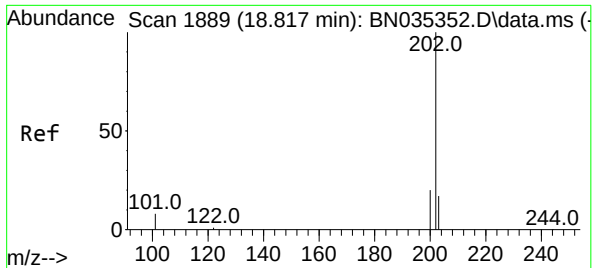
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#27
Fluoranthene-d10
Concen: 0.363 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

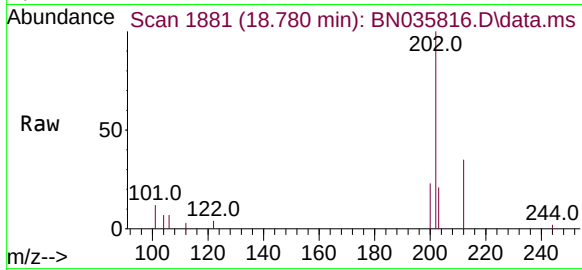
Tgt Ion:212 Resp: 10407
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.4 5.3 7.9





#28
Fluoranthene
Concen: 0.082 ng
RT: 18.780 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

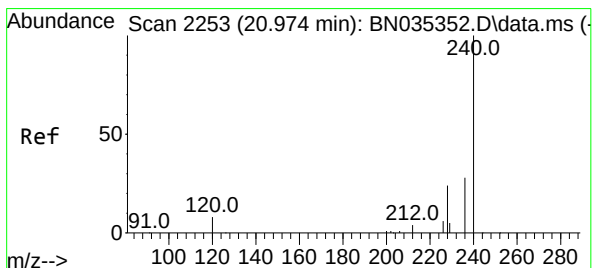
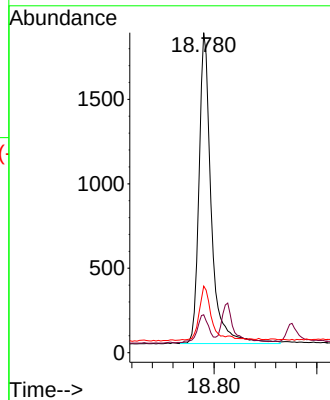
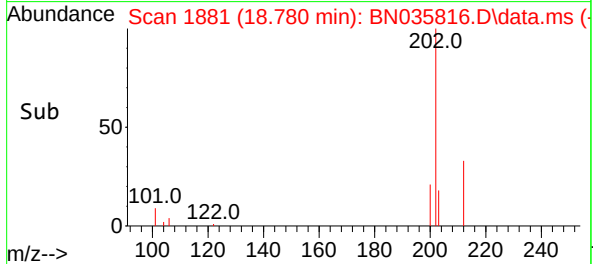
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:202 Resp: 3054
Ion Ratio Lower Upper
202 100
101 8.8 7.4 11.0
203 16.4 13.7 20.5

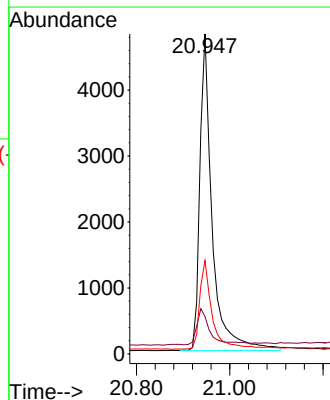
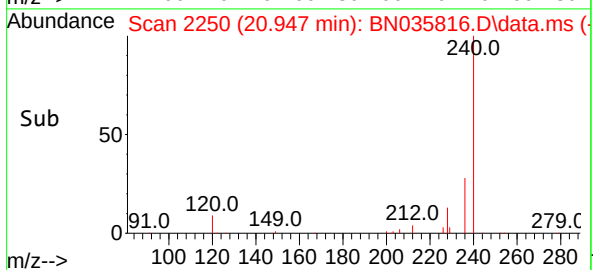
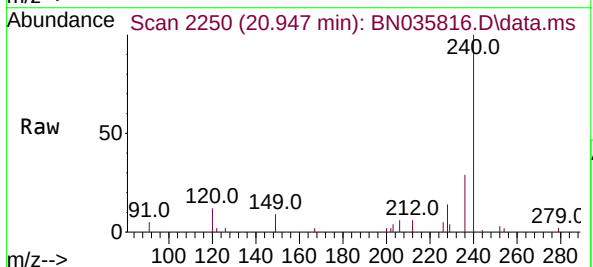
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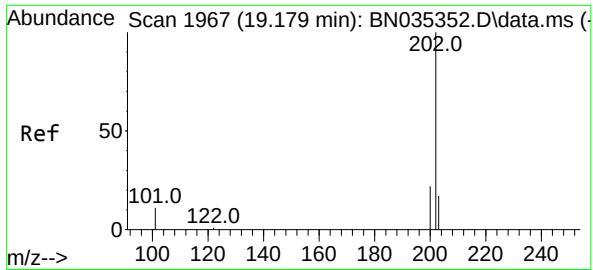
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

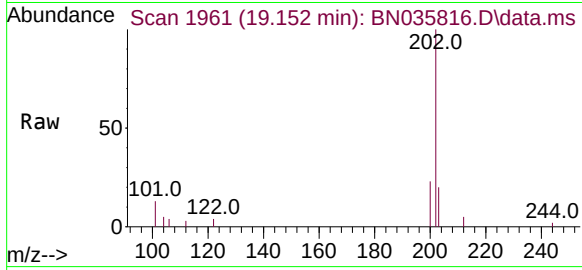
Tgt Ion:240 Resp: 8871
Ion Ratio Lower Upper
240 100
120 11.7 7.9 11.9
236 29.2 22.9 34.3





#30
Pyrene
Concen: 0.097 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

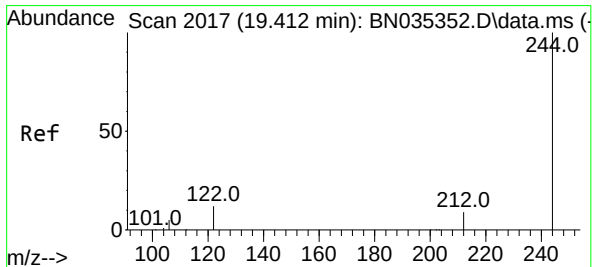
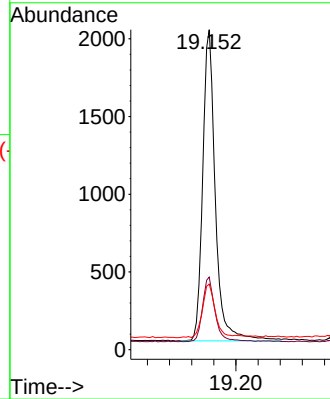
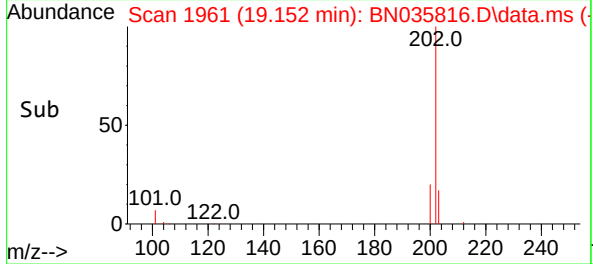
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:202 Resp: 318
Ion Ratio Lower Upper
202 100
200 20.5 17.0 25.4
203 17.3 14.3 21.5

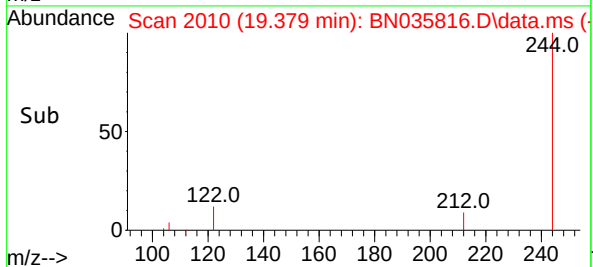
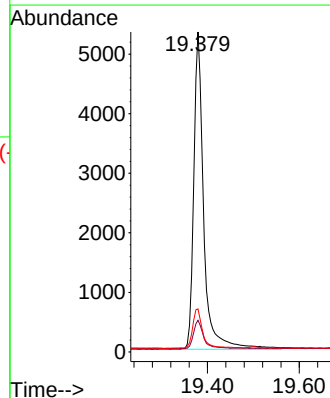
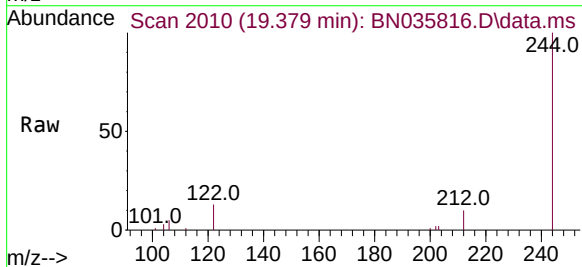
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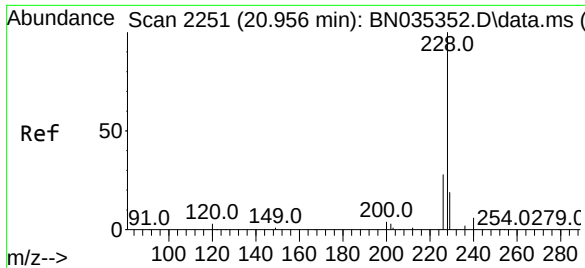
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

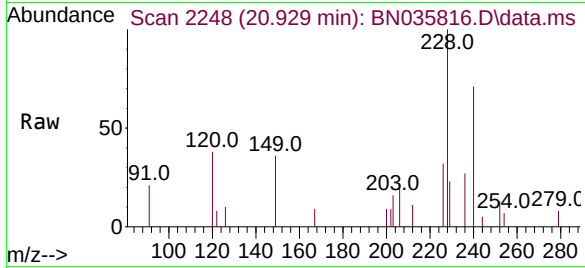
Tgt Ion:244 Resp: 8030
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.5 10.3 15.5





#32
Benzo(a)anthracene
Concen: 0.062 ng
RT: 20.929 min Scan# 2110
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

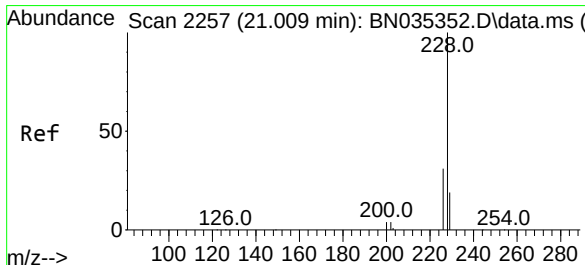
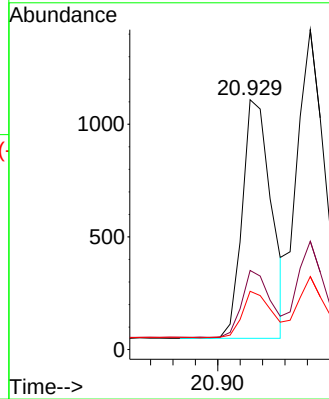
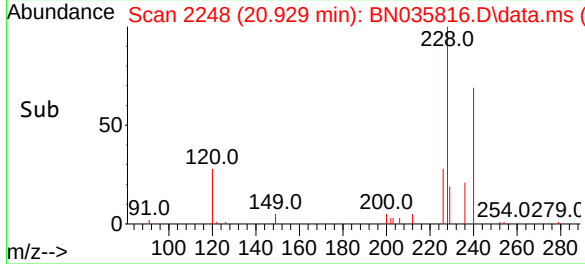
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:228 Resp: 1910
Ion Ratio Lower Upper
228 100
226 31.7 22.5 33.7
229 23.4 15.8 23.8

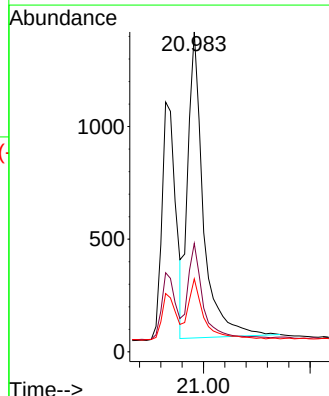
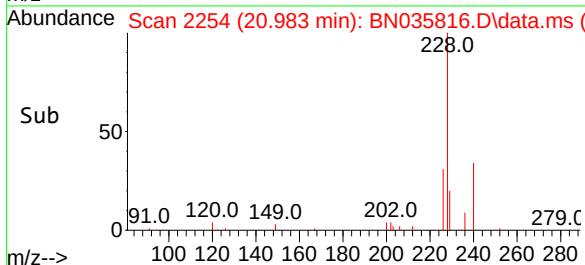
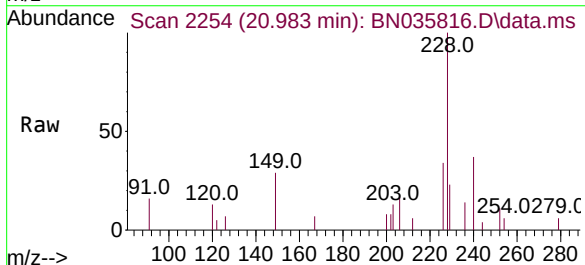
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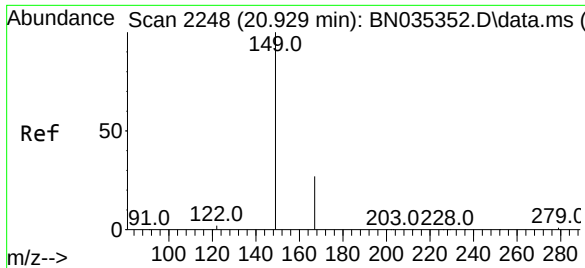
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#33
Chrysene
Concen: 0.086 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

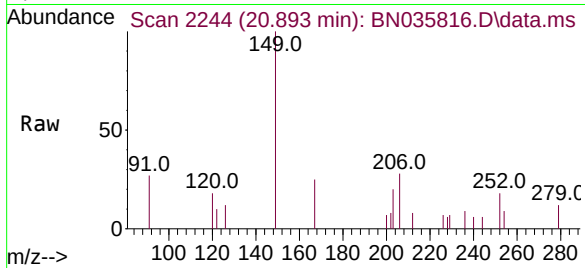
Tgt Ion:228 Resp: 2737
Ion Ratio Lower Upper
228 100
226 33.9 24.6 37.0
229 22.8 15.9 23.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

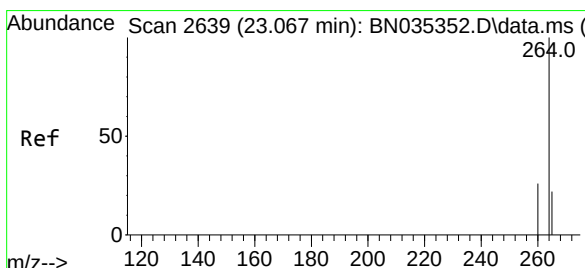
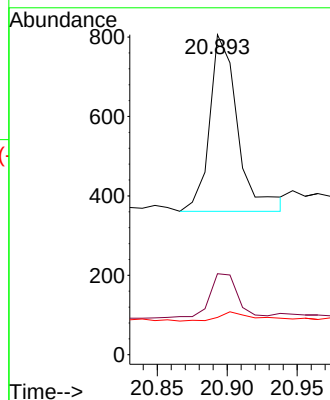
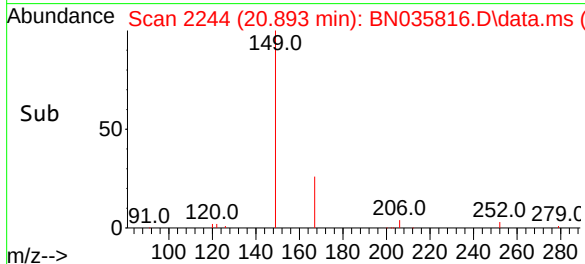
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:149 Resp: 62
Ion Ratio Lower Upper
149 100
167 24.7 22.2 33.4
279 6.7 2.7 4.1

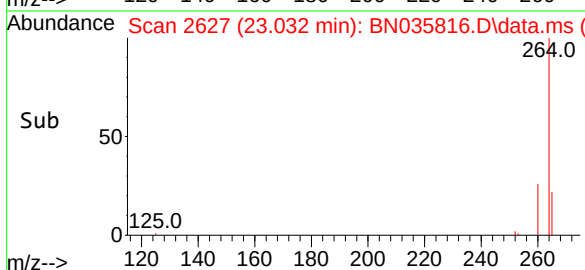
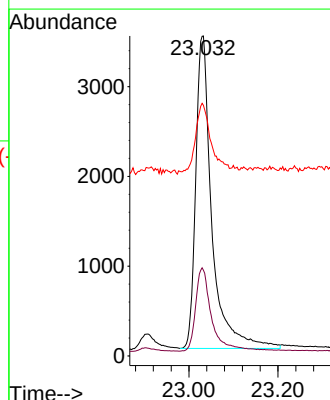
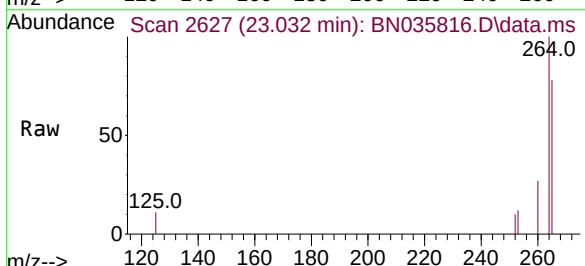
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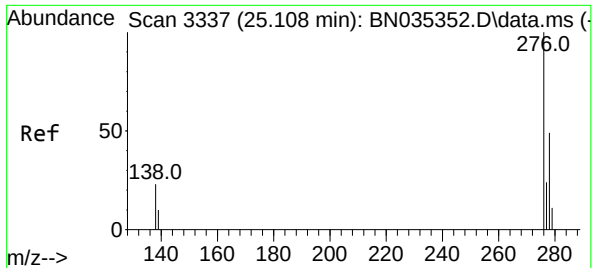
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:264 Resp: 8758
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 78.4 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.050 ng

RT: 25.073 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN035816.D

Acq: 24 Dec 2024 11:57

Instrument :

BNA_N

ClientSampleId :

RE115D2-20241218

Tgt Ion:276 Resp: 1728

Ion Ratio Lower Upper

276 100

138 10.1 19.4 29.0#

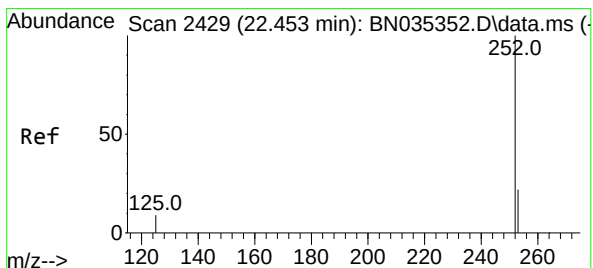
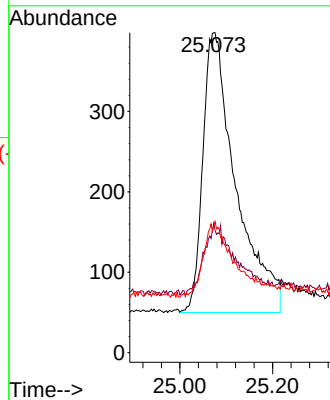
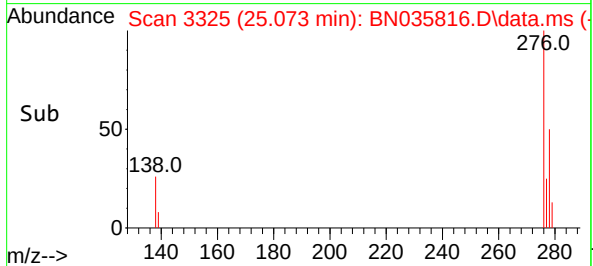
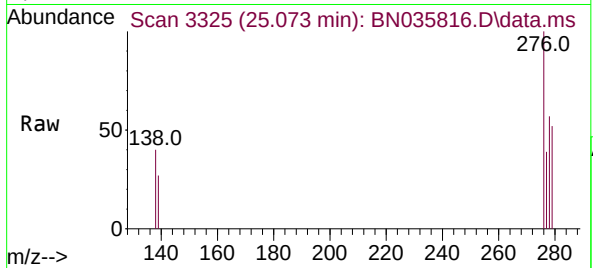
277 7.3 19.8 29.6#

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#37

Benzo(b)fluoranthene

Concen: 0.076 ng

RT: 22.424 min Scan# 2419

Delta R.T. -0.006 min

Lab File: BN035816.D

Acq: 24 Dec 2024 11:57

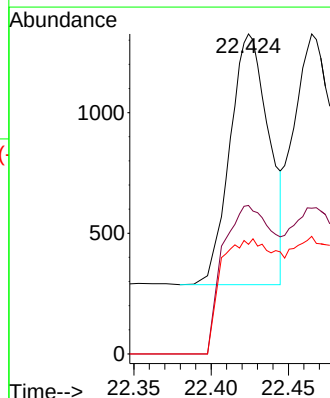
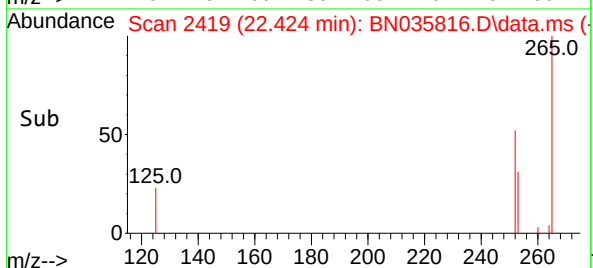
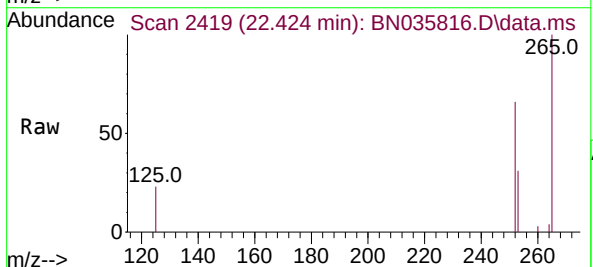
Tgt Ion:252 Resp: 2429

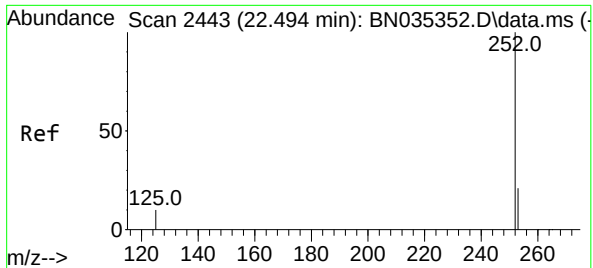
Ion Ratio Lower Upper

252 100

253 46.4 19.6 29.4#

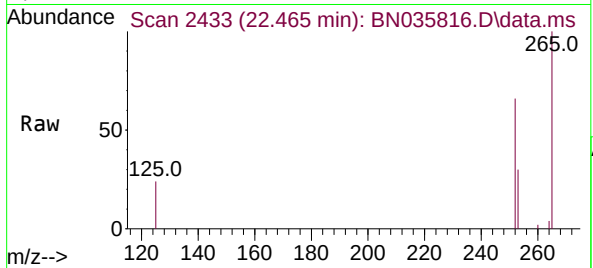
125 34.2 9.6 14.4#





#38
Benzo(k)fluoranthene
Concen: 0.063 ng
RT: 22.465 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

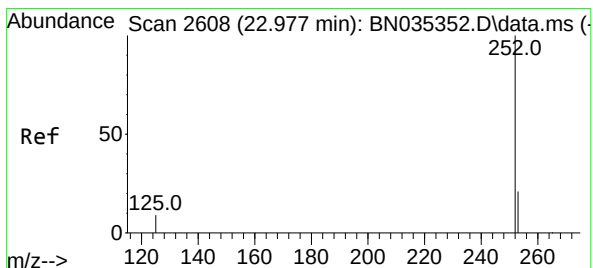
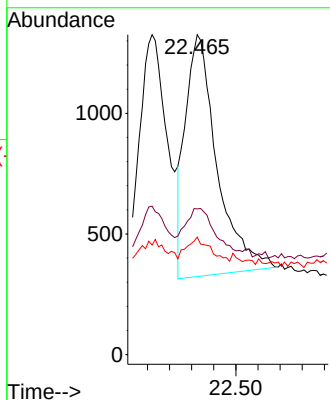
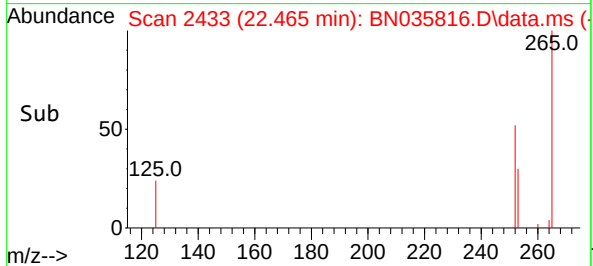
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218



Tgt Ion:252 Resp: 1985
Ion Ratio Lower Upper
252 100
253 45.6 19.5 29.3#
125 36.7 10.2 15.4#

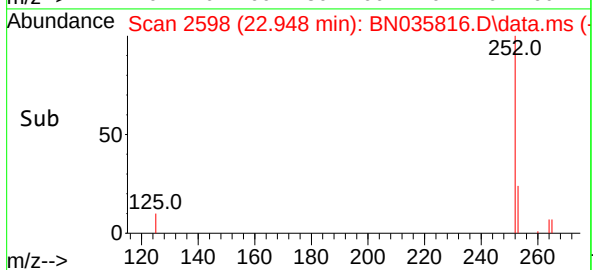
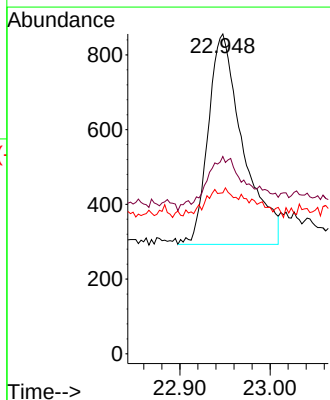
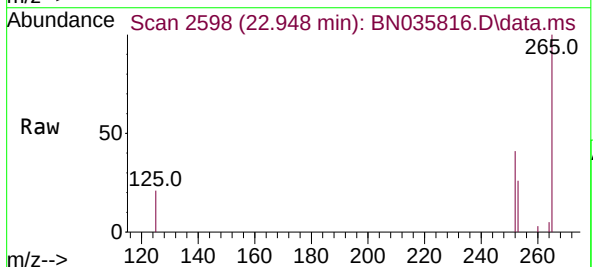
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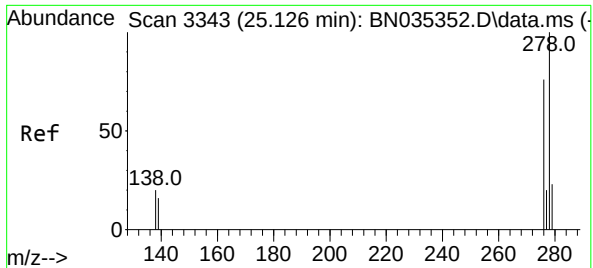
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#39
Benzo(a)pyrene
Concen: 0.057 ng
RT: 22.948 min Scan# 2598
Delta R.T. -0.003 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 1503
Ion Ratio Lower Upper
252 100
253 61.7 20.2 30.4#
125 50.4 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 0.045 ng

RT: 25.088 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN035816.D

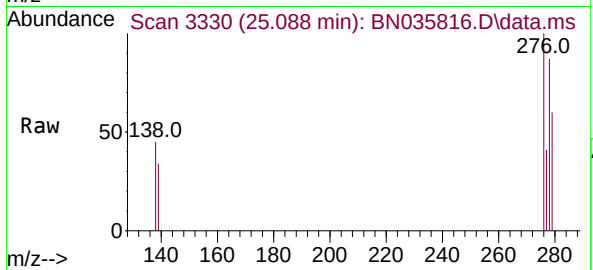
Acq: 24 Dec 2024 11:57

Instrument :

BNA_N

ClientSampleId :

RE115D2-20241218



Tgt Ion:278 Resp: 1220

Ion Ratio Lower Upper

278 100

139 39.6 14.2 21.4

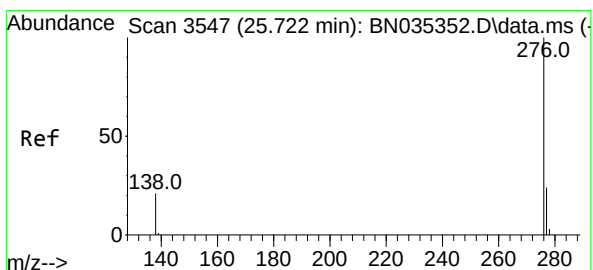
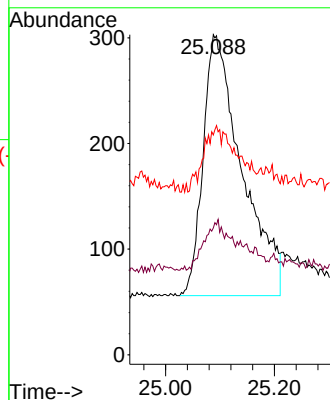
279 68.6 20.5 30.7

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#41

Benzo(g,h,i)perylene

Concen: 0.051 ng

RT: 25.678 min Scan# 3532

Delta R.T. -0.000 min

Lab File: BN035816.D

Acq: 24 Dec 2024 11:57

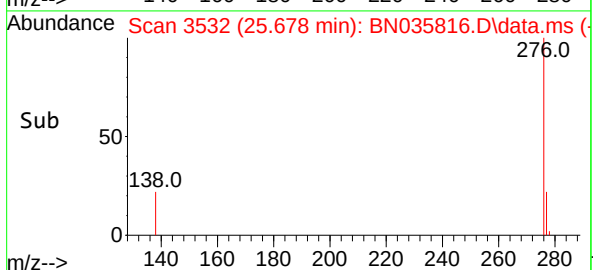
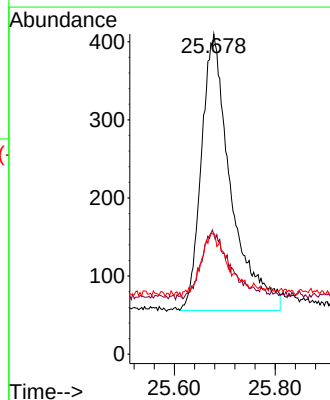
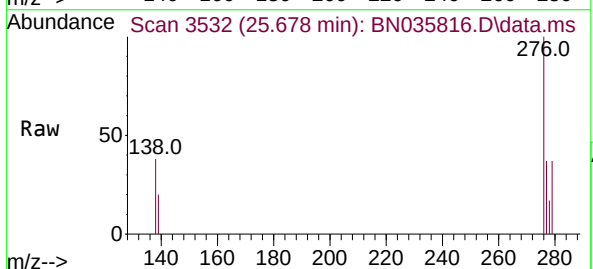
Tgt Ion:276 Resp: 1434

Ion Ratio Lower Upper

276 100

277 37.3 19.9 29.9#

138 37.8 17.8 26.8#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RE115D2-20241218DL	SDG No.:	P5376
Lab Sample ID:	P5376-03DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN035854.D	5	12/23/24 13:29	12/26/24 15:30	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.3	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		120%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.53	*	55 - 111		131%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.66	*	58 - 132		164%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2750		7.257			
1146-65-2	Naphthalene-d8	6130		10.009			
15067-26-2	Acenaphthene-d10	4190		13.924			
1517-22-2	Phenanthrene-d10	9270		16.698			
1719-03-5	Chrysene-d12	7350		20.947			
1520-96-3	Perylene-d12	6900		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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035854.D
 Acq On : 26 Dec 2024 15:30
 Operator : RC/JU
 Sample : P5376-03DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218DL

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:41:35 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	2752	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6133	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4189	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9267	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7345	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6900	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	170	0.025	ng	-0.01
5) Phenol-d6	6.477	99	80	0.010	ng	-0.01
8) Nitrobenzene-d5	8.418	82	392m	0.105	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	768	0.080	ng	0.02
14) 2,4,6-Tribromophenol	15.464	330	143	0.048	ng	0.01
15) 2-Fluorobiphenyl	12.559	172	1316	0.083	ng	0.01
27) Fluoranthene-d10	18.757	212	2532	0.096	ng	0.00
31) Terphenyl-d14	19.379	244	1897	0.131	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	5250	1.996	ng	99
9) Naphthalene	10.052	128	468	0.029	ng	# 41
16) Acenaphthylene	13.636	152	389	0.022	ng	95
17) Acenaphthene	13.989	154	244	0.021	ng	96
25) Phenanthrene	16.748	178	675m	0.027	ng	
26) Anthracene	16.847	178	538m	0.023	ng	
28) Fluoranthene	18.784	202	749	0.022	ng	99
30) Pyrene	19.151	202	773	0.029	ng	98
33) Chrysene	20.982	228	652	0.025	ng	# 79
34) Bis(2-ethylhexyl)phtha...	20.893	149	272	0.027	ng	# 91

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

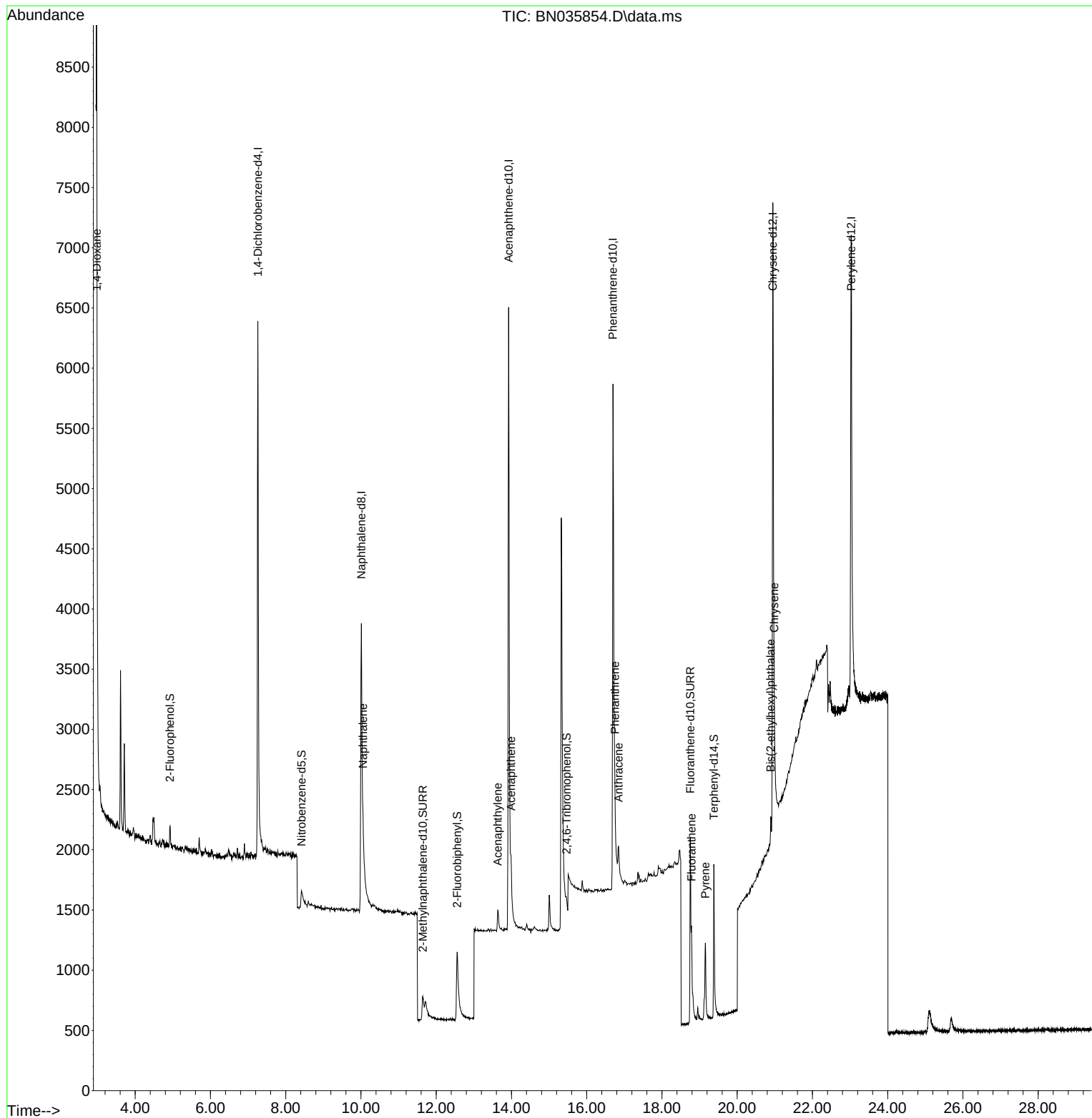
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

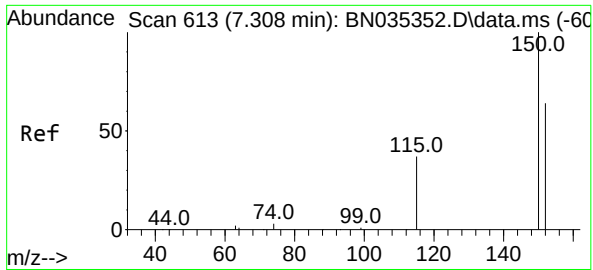
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

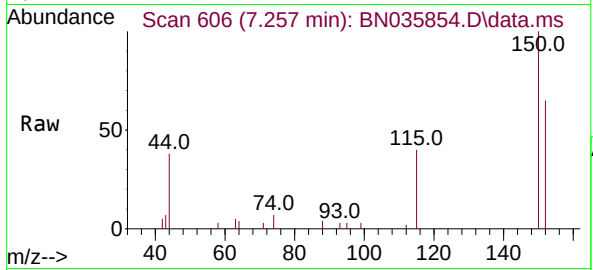
Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

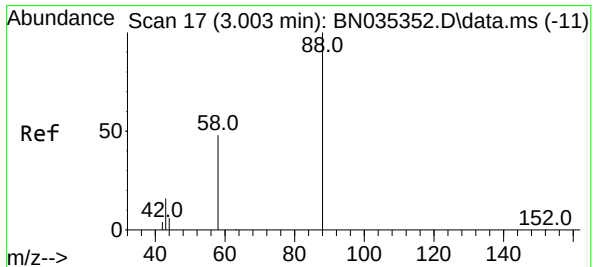
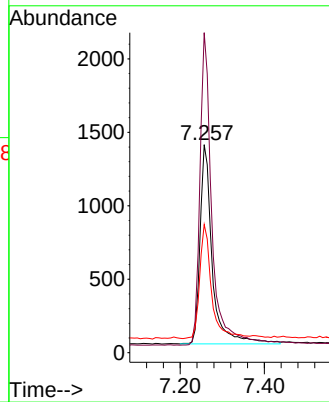
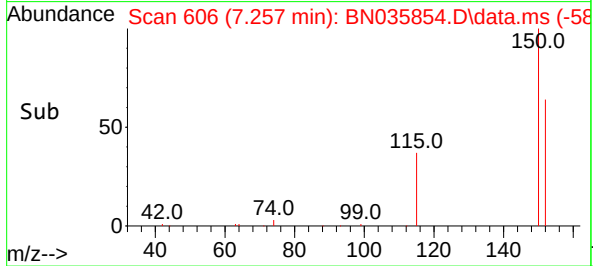
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:152 Resp: 275
Ion Ratio Lower Upper
152 100
150 153.8 124.0 186.0
115 61.7 49.6 74.4

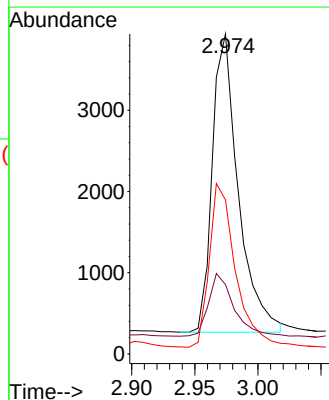
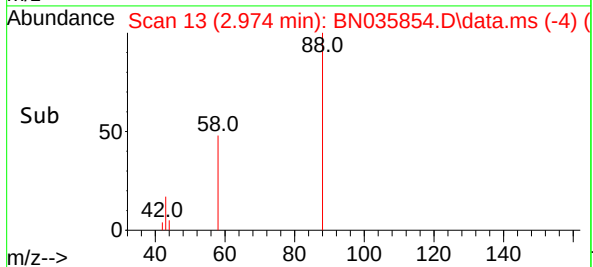
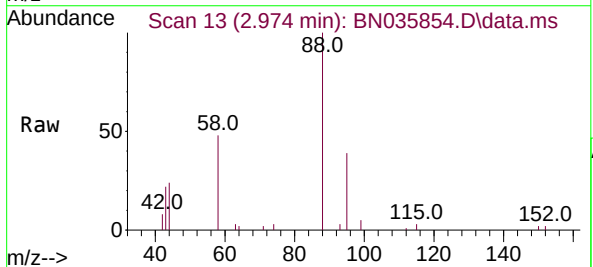
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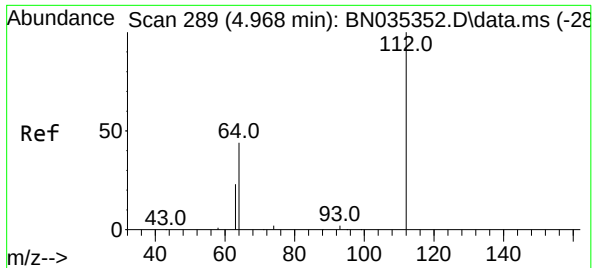
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#2
1,4-Dioxane
Concen: 1.996 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 88 Resp: 5250
Ion Ratio Lower Upper
88 100
43 20.5 17.2 25.8
58 54.9 44.5 66.7





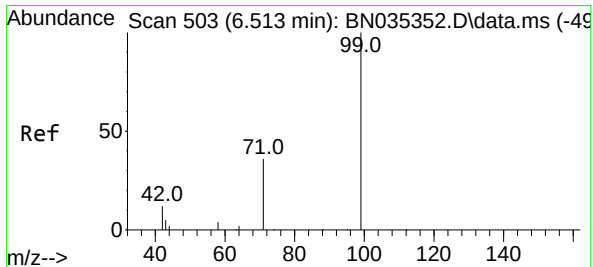
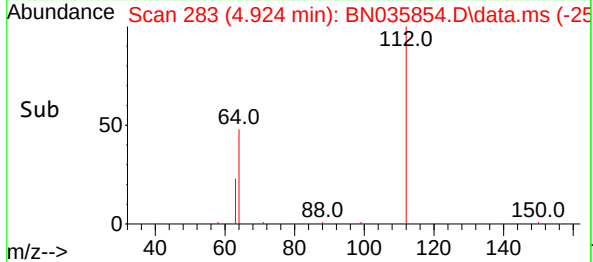
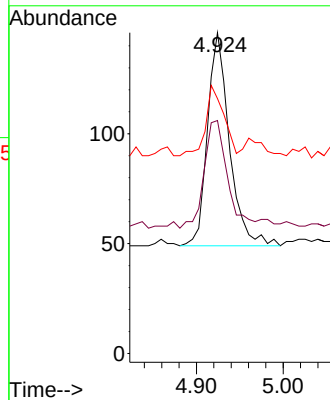
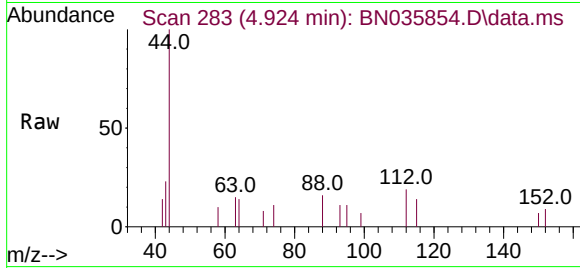
#4
2-Fluorophenol
Concen: 0.025 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion: 112 Resp: 170
Ion Ratio Lower Upper
112 100
64 53.5 39.8 59.8
63 31.8 21.0 31.6

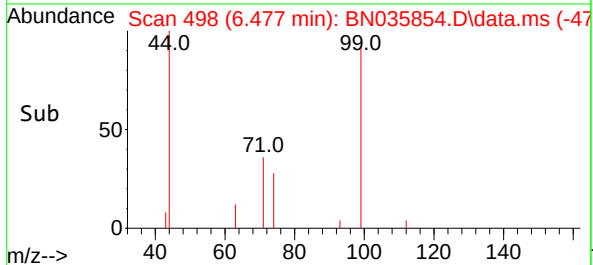
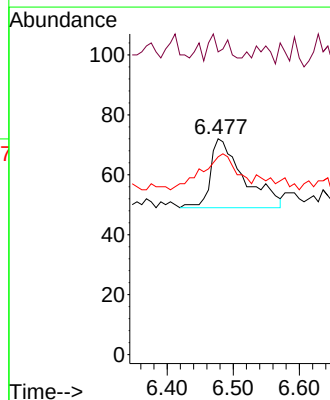
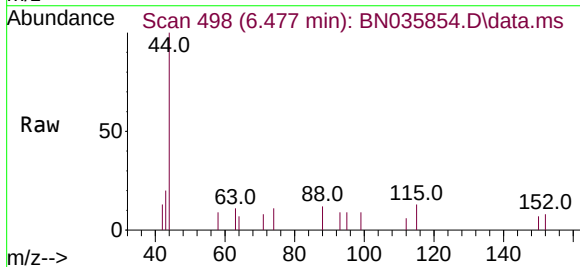
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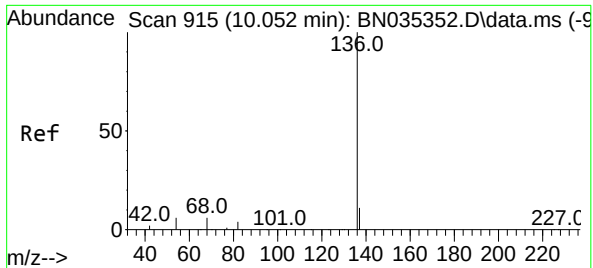
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#5
Phenol-d6
Concen: 0.010 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

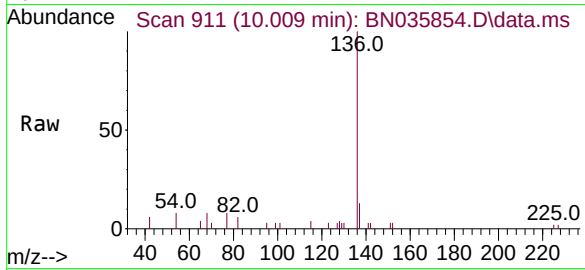
Tgt Ion: 99 Resp: 80
Ion Ratio Lower Upper
99 100
42 12.5 11.4 17.2
71 53.8 29.3 43.9#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

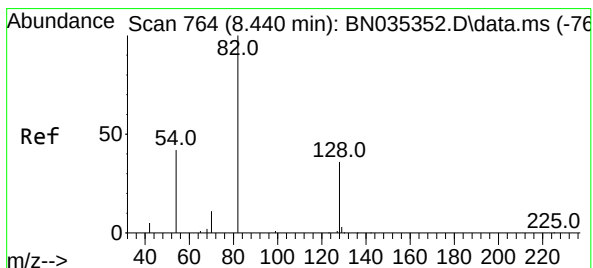
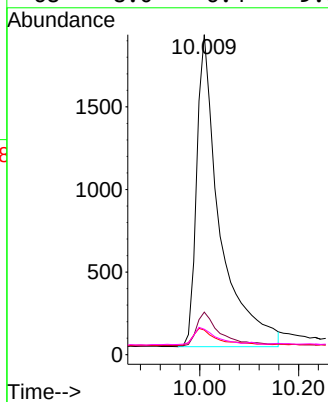
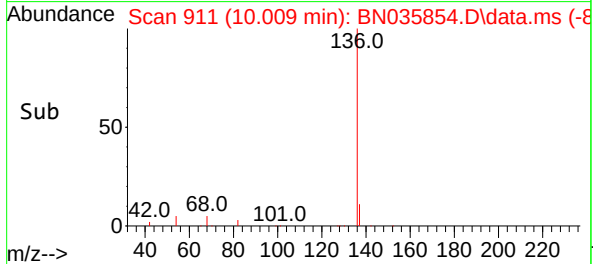
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion: 136 Resp: 613
Ion Ratio Lower Upper
136 100
137 13.3 10.2 15.2
54 7.7 6.1 9.1
68 8.0 6.4 9.6

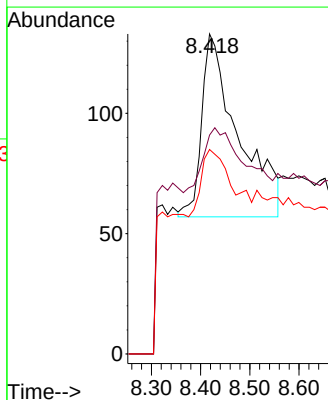
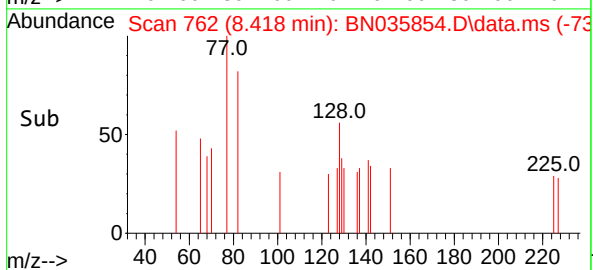
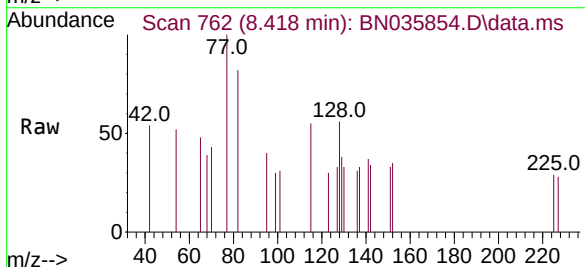
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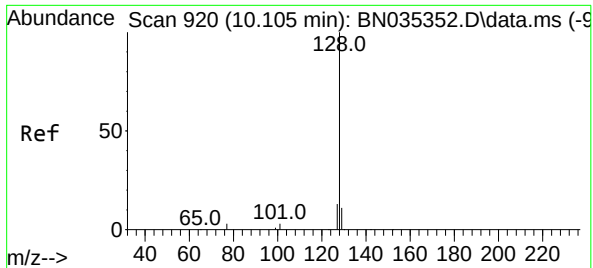
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.105 ng m
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

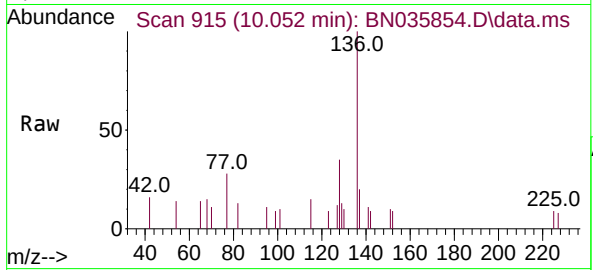
Tgt Ion: 82 Resp: 392
Ion Ratio Lower Upper
82 100
128 68.4 33.4 50.0#
54 63.9 36.7 55.1#





#9
Naphthalene
Concen: 0.029 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

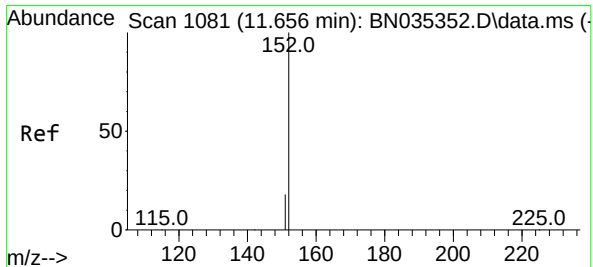
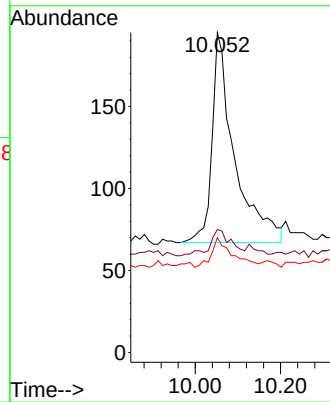
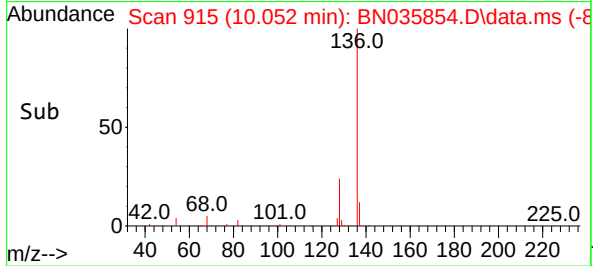
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:128 Resp: 468
Ion Ratio Lower Upper
128 100
129 38.5 9.8 14.6
127 35.9 11.4 17.2

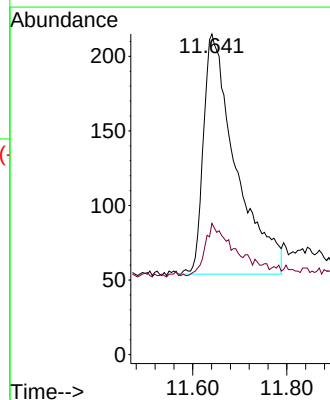
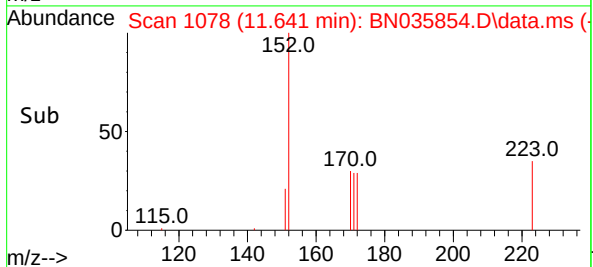
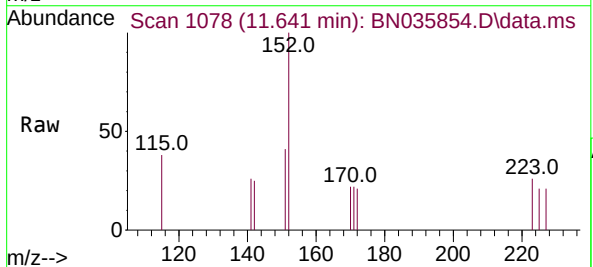
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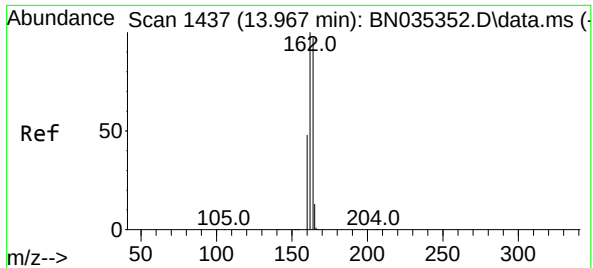
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#11
2-Methylnaphthalene-d10
Concen: 0.080 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

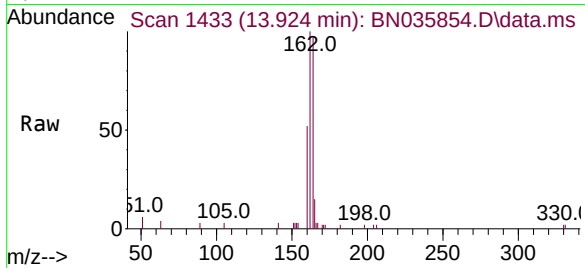
Tgt Ion:152 Resp: 768
Ion Ratio Lower Upper
152 100
151 16.5 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

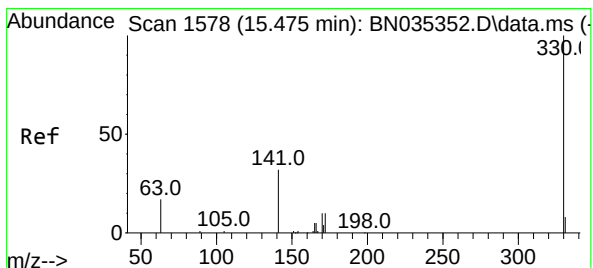
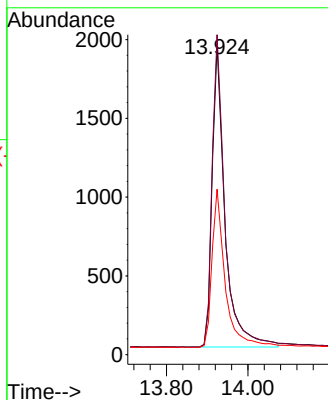
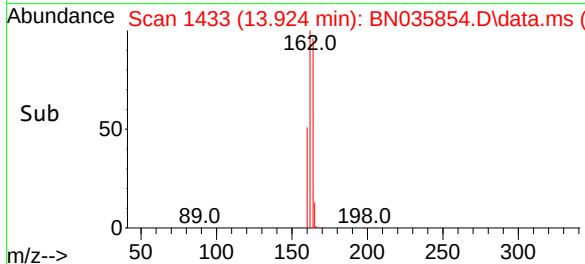
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:164 Resp: 4189
Ion Ratio Lower Upper
164 100
162 103.5 82.2 123.2
160 53.5 40.1 60.1

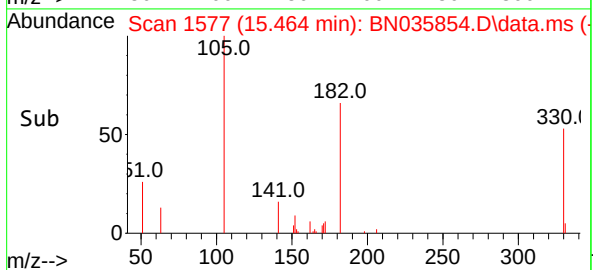
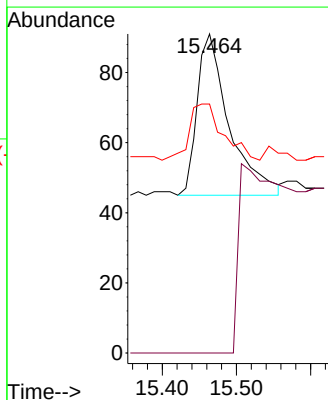
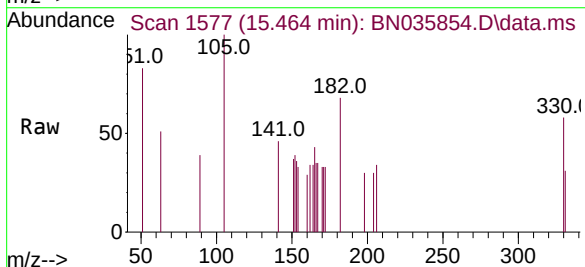
Manual Integrations
APPROVED

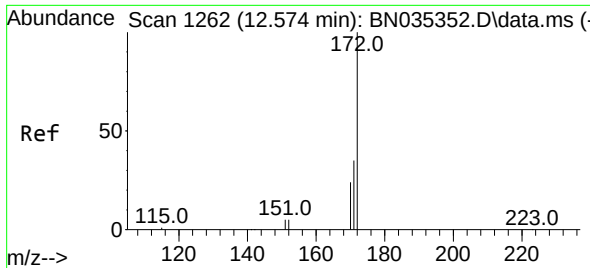
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#14
2,4,6-Tribromophenol
Concen: 0.048 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

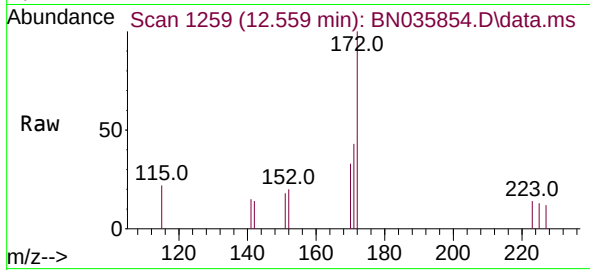
Tgt Ion:330 Resp: 143
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 38.5 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.559 min Scan# 11
Delta R.T. 0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

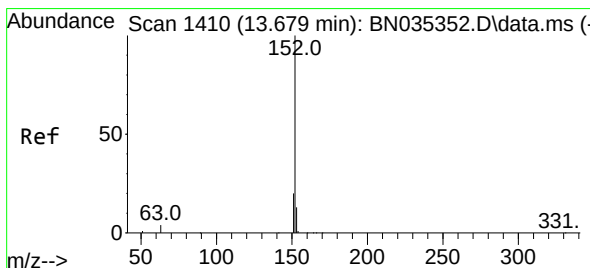
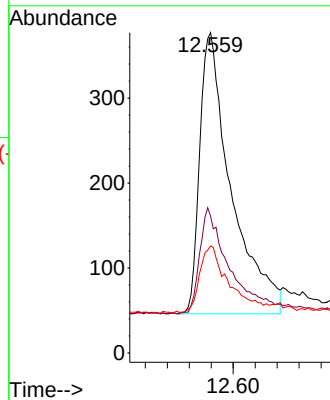
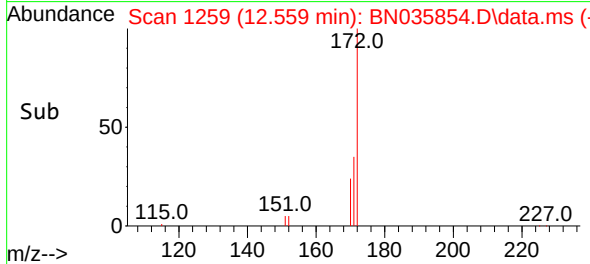
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:172 Resp: 1310
Ion Ratio Lower Upper
172 100
171 42.7 29.0 43.4
170 33.4 19.8 29.8

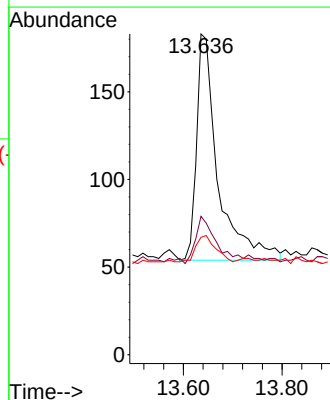
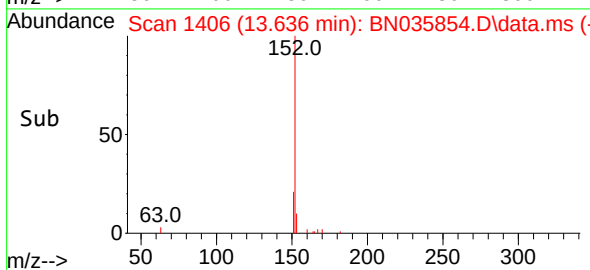
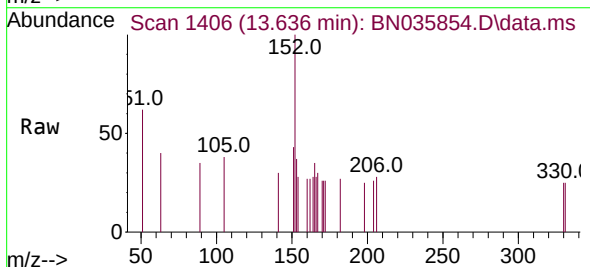
Manual Integrations
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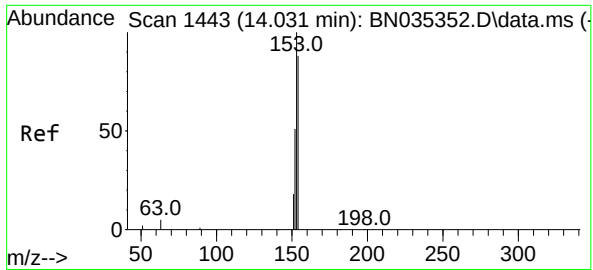
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#16
Acenaphthylene
Concen: 0.022 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

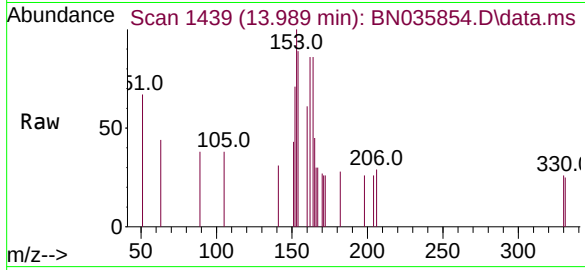
Tgt Ion:152 Resp: 389
Ion Ratio Lower Upper
152 100
151 22.4 16.2 24.2
153 10.5 10.4 15.6





#17
Acenaphthene
Concen: 0.021 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

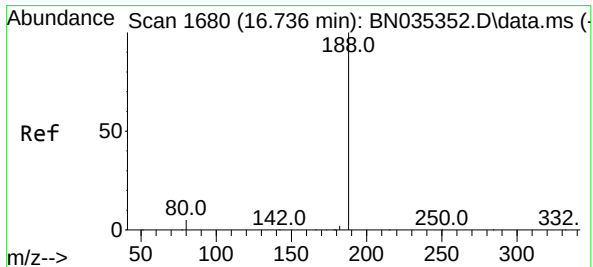
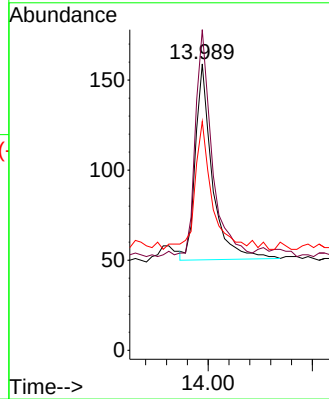
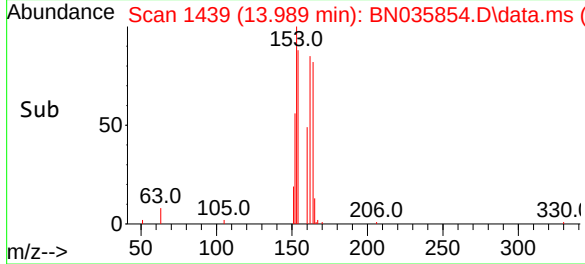
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:154 Resp: 244
Ion Ratio Lower Upper
154 100
153 111.9 92.6 139.0
152 65.2 49.0 73.6

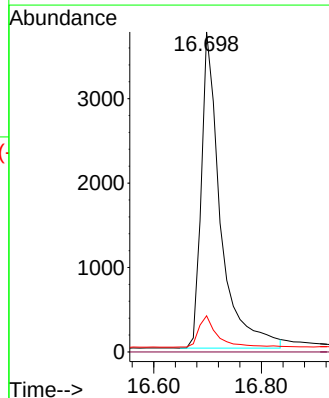
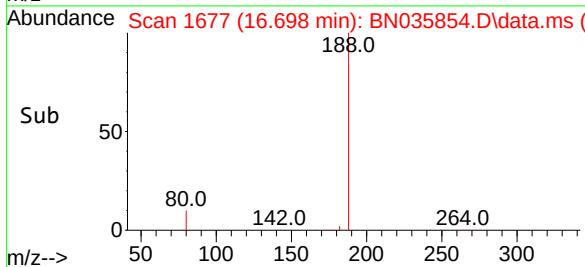
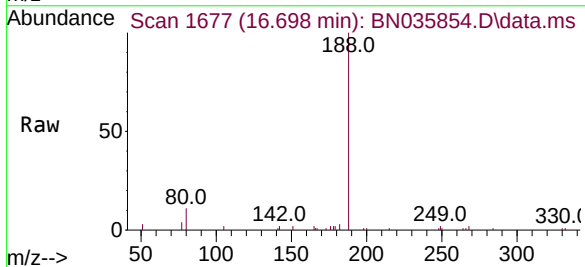
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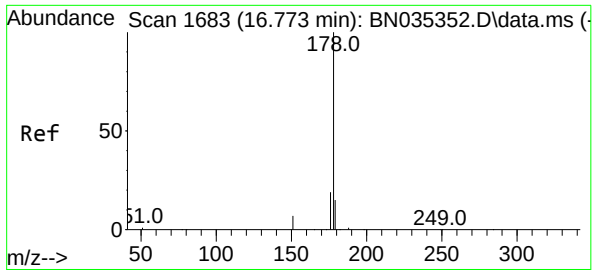
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

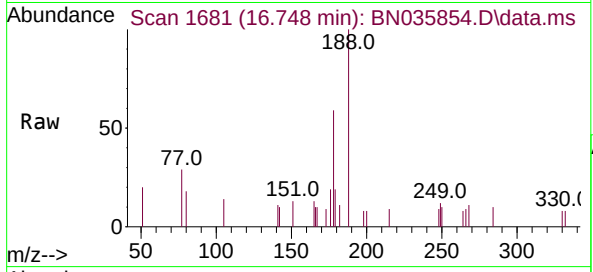
Tgt Ion:188 Resp: 9267
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 4.6 6.8





#25
Phenanthrene
Concen: 0.027 ng m
RT: 16.748 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

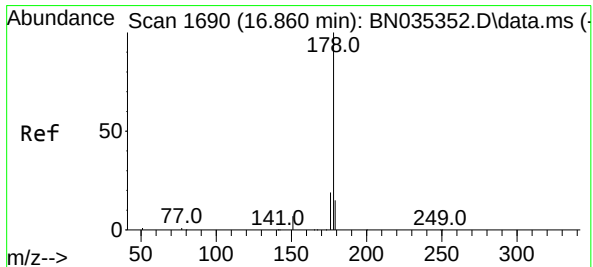
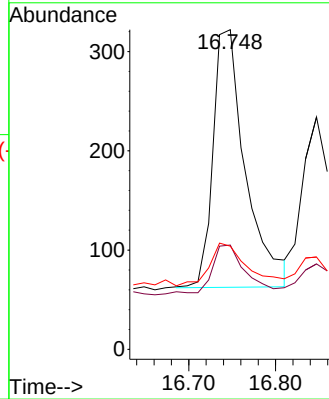
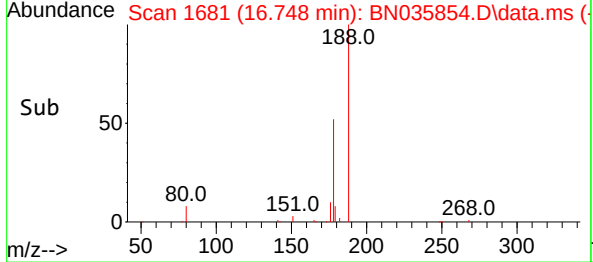
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:178 Resp: 679
Ion Ratio Lower Upper
178 100
176 9.8 15.4 23.2#
179 8.4 12.3 18.5#

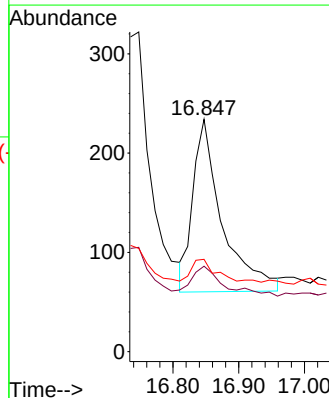
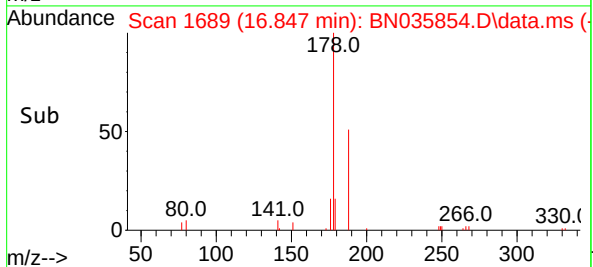
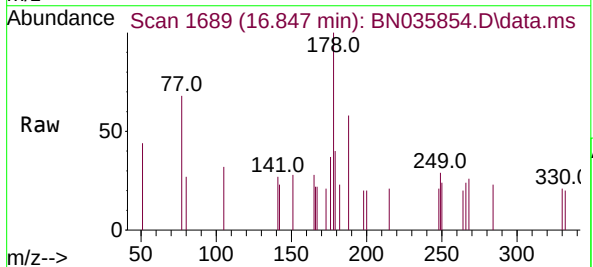
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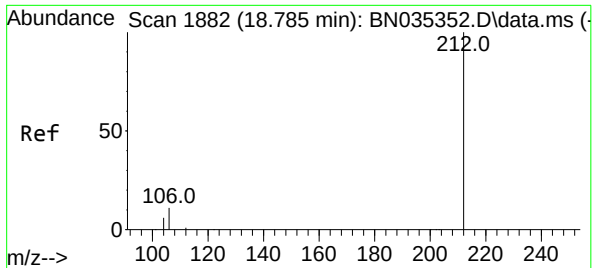
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#26
Anthracene
Concen: 0.023 ng m
RT: 16.847 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

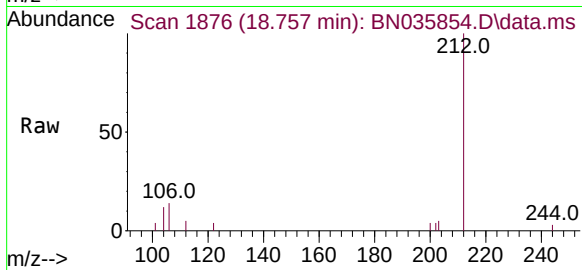
Tgt Ion:178 Resp: 538
Ion Ratio Lower Upper
178 100
176 25.5 15.0 22.6#
179 24.2 12.6 18.8#





#27
Fluoranthene-d10
Concen: 0.096 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

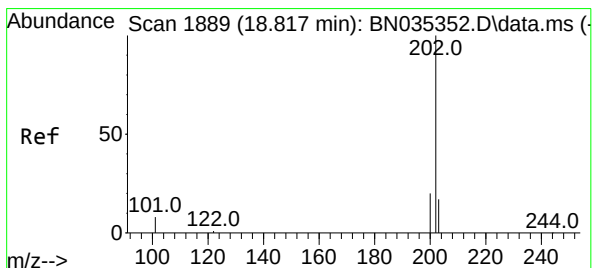
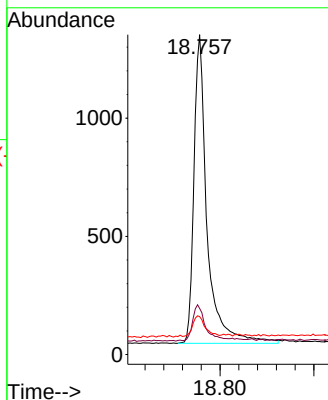
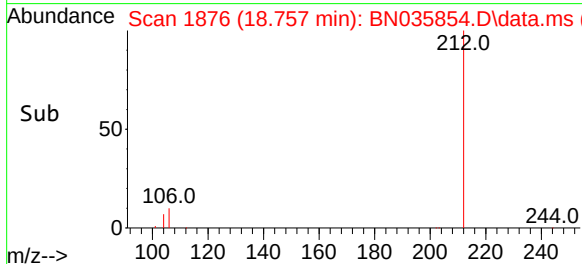
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:212 Resp: 253
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.4 5.3 7.9

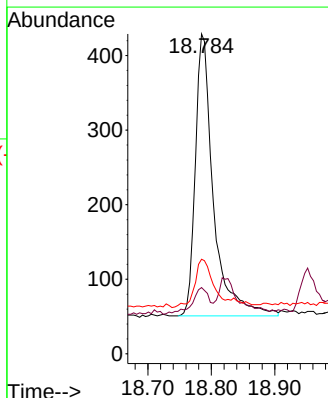
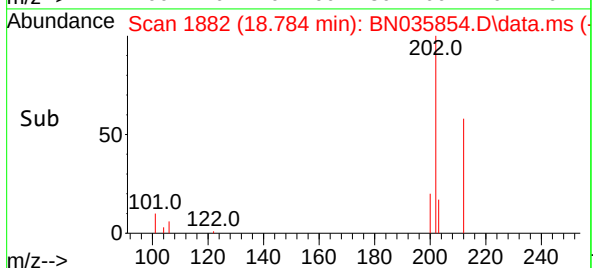
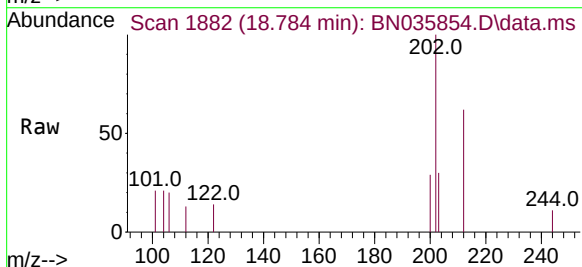
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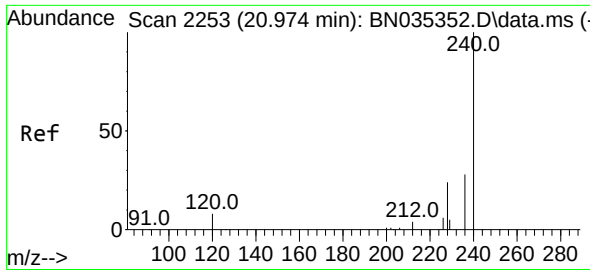
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#28
Fluoranthene
Concen: 0.022 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

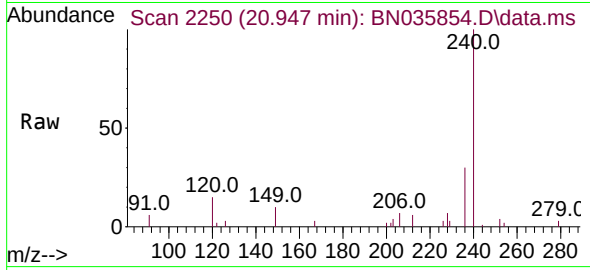
Tgt Ion:202 Resp: 749
Ion Ratio Lower Upper
202 100
101 8.4 7.4 11.0
203 17.1 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

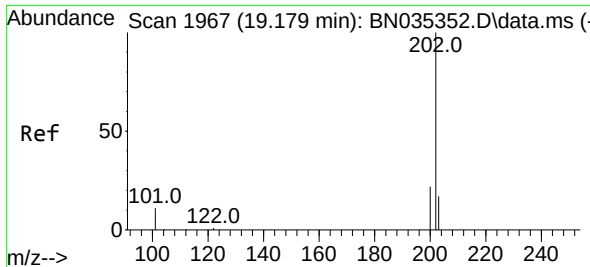
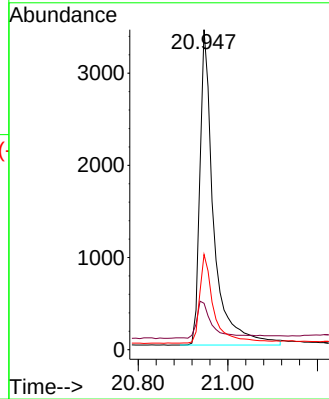
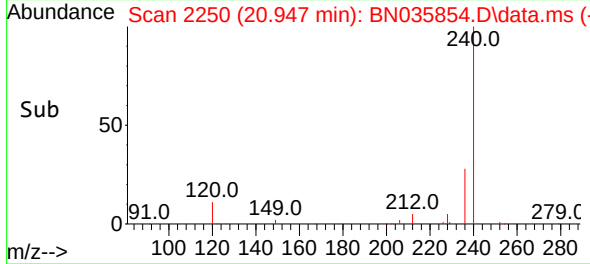
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:240 Resp: 734
Ion Ratio Lower Upper
240 100
120 14.5 7.9 11.9
236 29.8 22.9 34.3

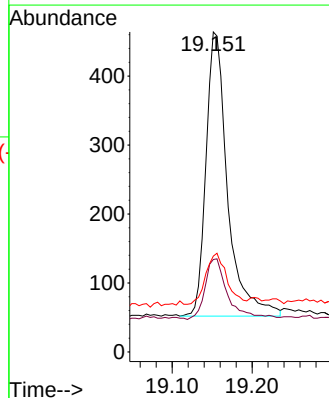
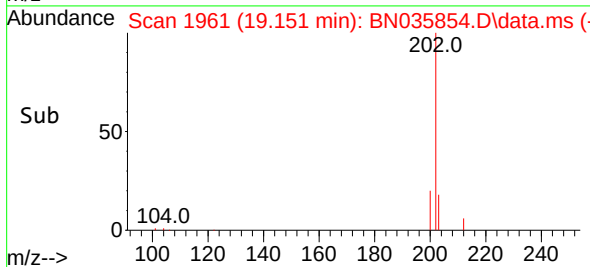
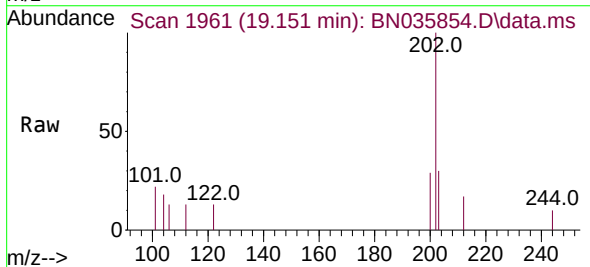
Manual Integrations
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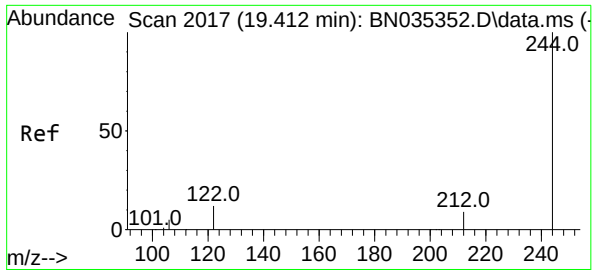
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#30
Pyrene
Concen: 0.029 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

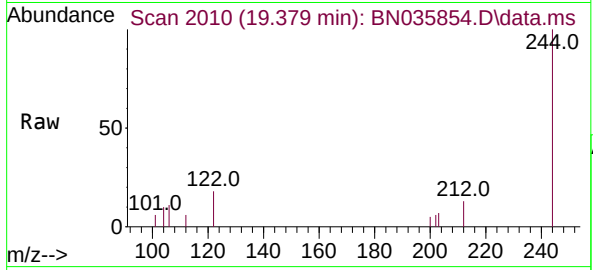
Tgt Ion:202 Resp: 773
Ion Ratio Lower Upper
202 100
200 22.8 17.0 25.4
203 17.5 14.3 21.5





#31
Terphenyl-d14
Concen: 0.131 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

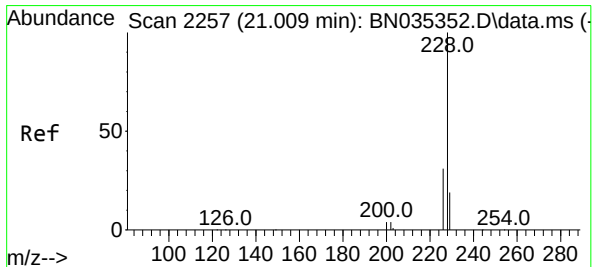
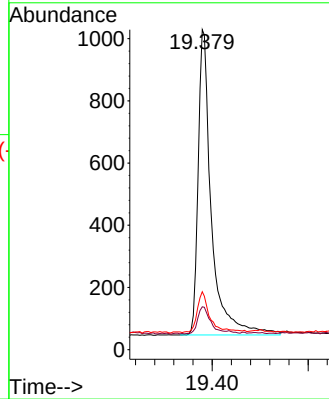
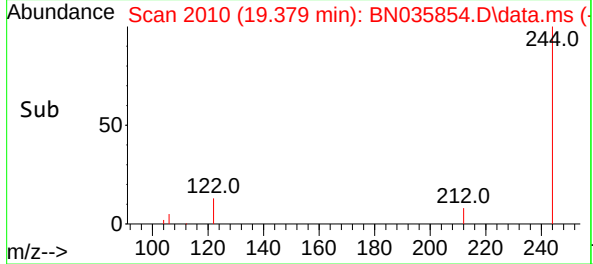
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:244 Resp: 189
Ion Ratio Lower Upper
244 100
212 13.4 8.1 12.1
122 18.1 10.3 15.5

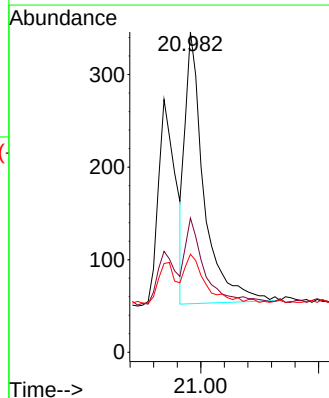
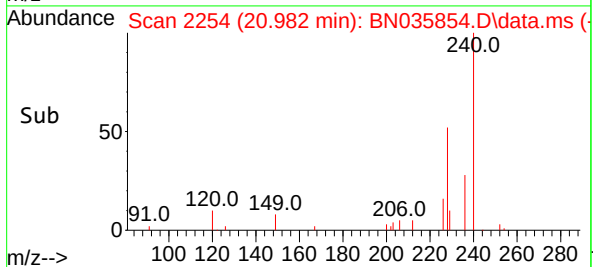
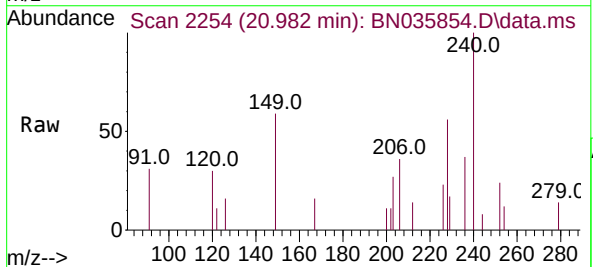
Manual Integrations
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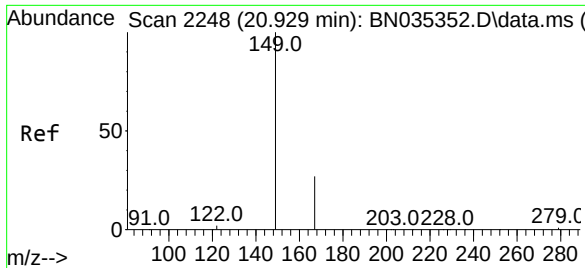
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#33
Chrysene
Concen: 0.025 ng
RT: 20.982 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

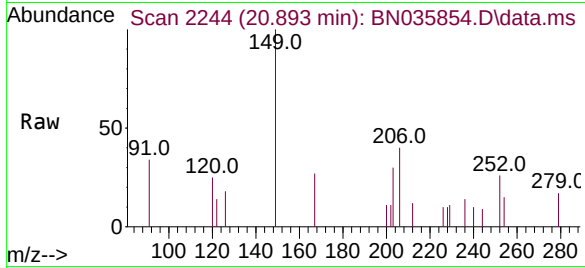
Tgt Ion:228 Resp: 652
Ion Ratio Lower Upper
228 100
226 41.9 24.6 37.0#
229 30.6 15.9 23.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.027 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

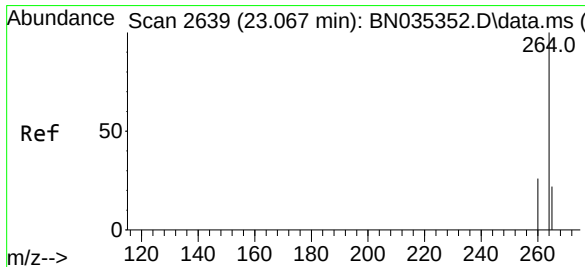
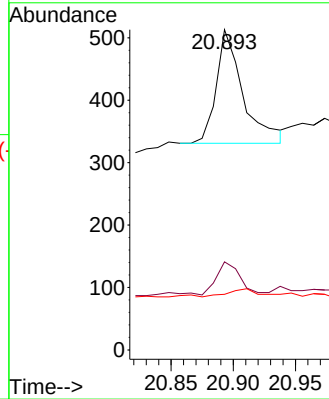
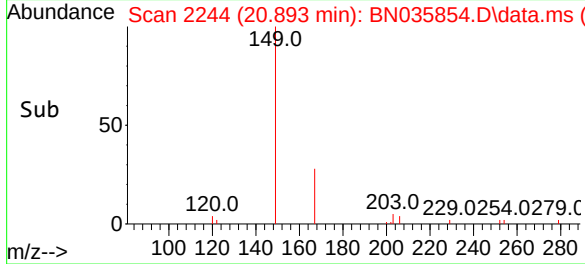
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL



Tgt Ion:149 Resp: 272
Ion Ratio Lower Upper
149 100
167 23.2 22.2 33.4
279 7.4 2.7 4.1

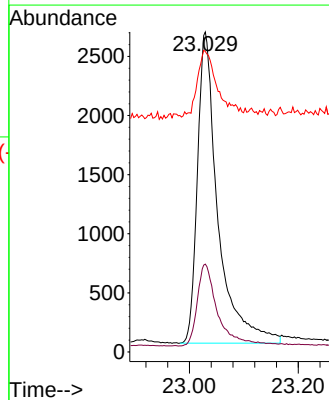
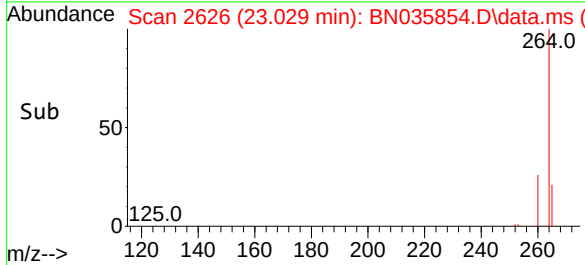
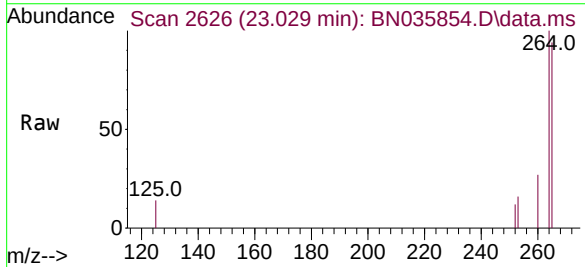
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:264 Resp: 6900
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 93.9 40.2 60.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT149S1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN035817.D	1	12/23/24 13:29	12/24/24 12:33	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	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	2880		7.264			
1146-65-2	Naphthalene-d8	6880		10.009			
15067-26-2	Acenaphthene-d10	4350		13.925			
1517-22-2	Phenanthrene-d10	9250		16.698			
1719-03-5	Chrysene-d12	8130		20.947			
1520-96-3	Perylene-d12	8130		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\BN122324\
 Data File : BN035817.D
 Acq On : 24 Dec 2024 12:33
 Operator : RC/JU
 Sample : P5376-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT149S1-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:17:43 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	2882	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6877	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4352	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9250	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8129	0.400	ng	0.00
35) Perylene-d12	23.027	264	8126	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	816	0.113	ng	-0.01
5) Phenol-d6	6.477	99	466	0.054	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1548m	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3542	0.329	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	609	0.197	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	5853	0.356	ng	-0.01
27) Fluoranthene-d10	18.748	212	10238	0.390	ng	-0.01
31) Terphenyl-d14	19.379	244	8867	0.553	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	759	0.275	ng	# 85
9) Naphthalene	10.052	128	1895	0.104	ng	# 86
12) 2-Methylnaphthalene	11.692	142	1157	0.089	ng	# 90
16) Acenaphthylene	13.636	152	1924	0.105	ng	98
17) Acenaphthene	13.989	154	1204	0.099	ng	99
18) Fluorene	14.994	166	1680	0.097	ng	99
25) Phenanthrene	16.736	178	3237	0.127	ng	100
26) Anthracene	16.835	178	2442	0.106	ng	98
28) Fluoranthene	18.780	202	3731	0.109	ng	99
30) Pyrene	19.147	202	4005	0.133	ng	99
32) Benzo(a)anthracene	20.929	228	2676	0.094	ng	95
33) Chrysene	20.983	228	3497	0.119	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	786	0.070	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.064	276	2211	0.070	ng	99
37) Benzo(b)fluoranthene	22.421	252	3364	0.113	ng	# 65
38) Benzo(k)fluoranthene	22.462	252	2940	0.100	ng	# 60
39) Benzo(a)pyrene	22.942	252	2085	0.085	ng	# 38
40) Dibenzo(a,h)anthracene	25.079	278	1701	0.068	ng	# 44
41) Benzo(g,h,i)perylene	25.667	276	1967	0.075	ng	# 84

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

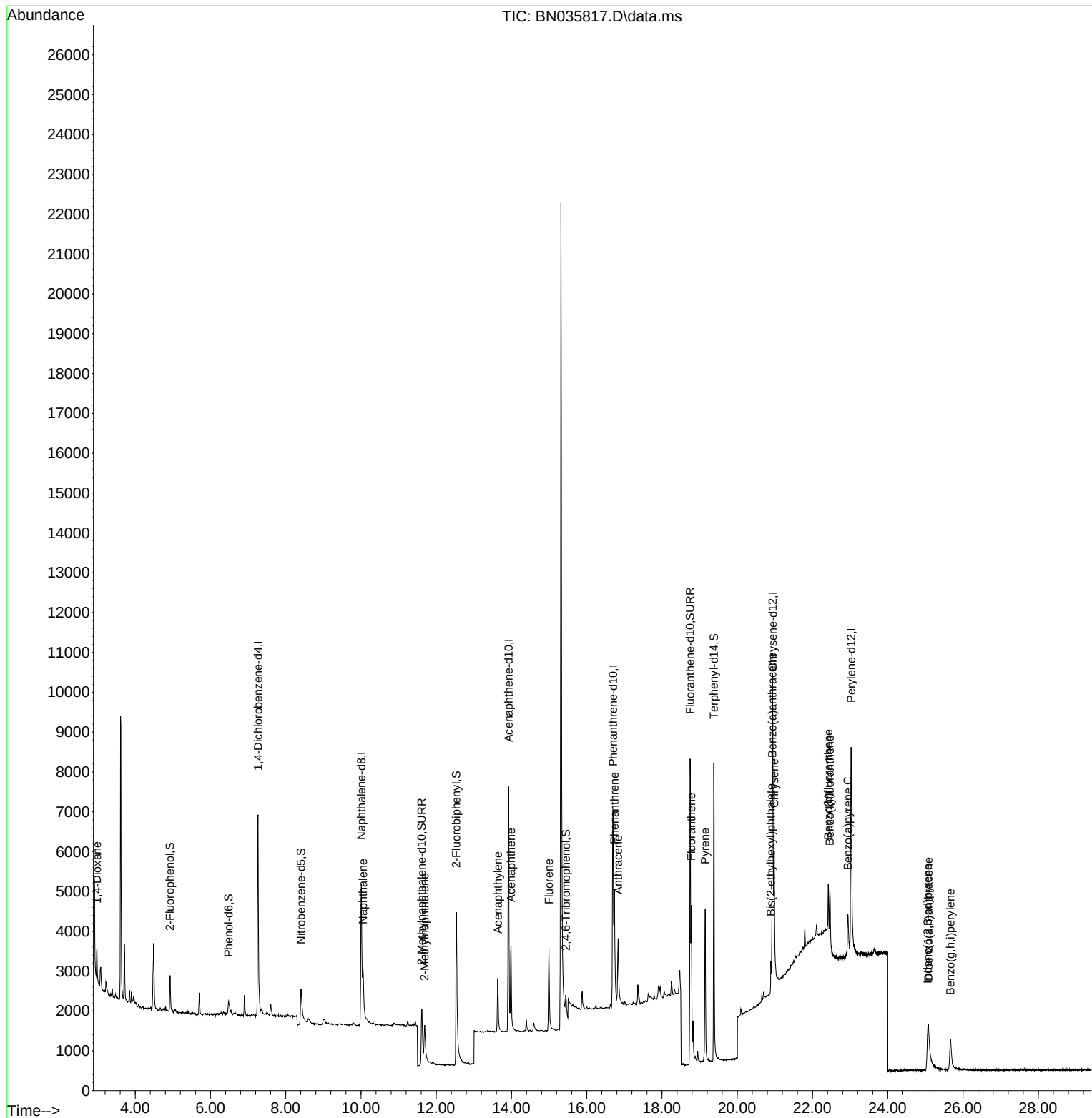
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

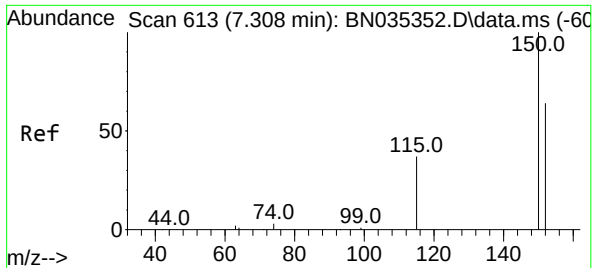
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Quant Time: Dec 24 23:17:43 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

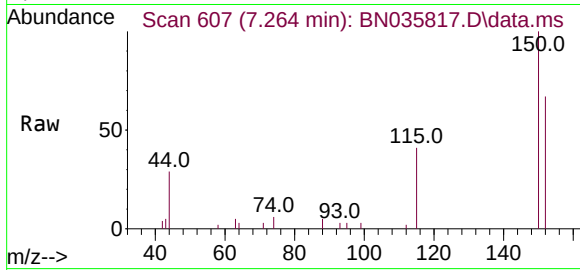
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

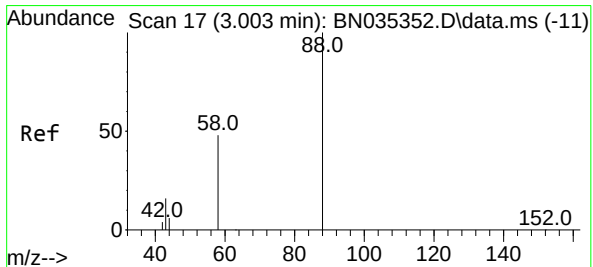
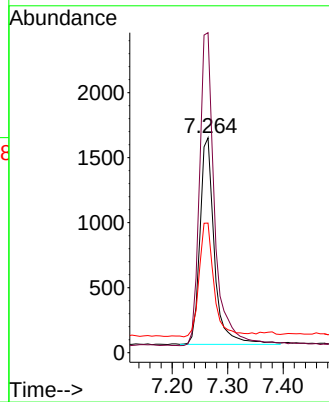
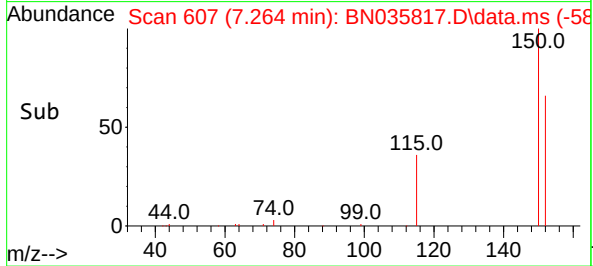
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:152 Resp: 288
Ion Ratio Lower Upper
152 100
150 148.9 124.0 186.0
115 60.3 49.6 74.4

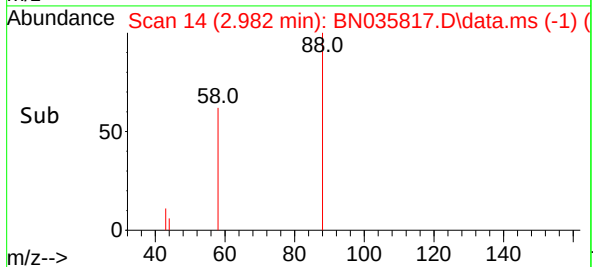
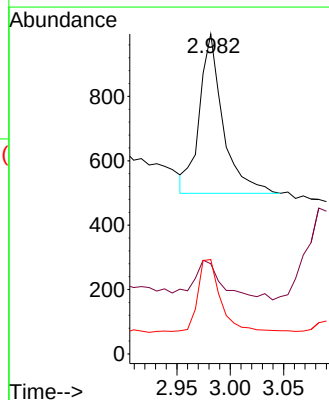
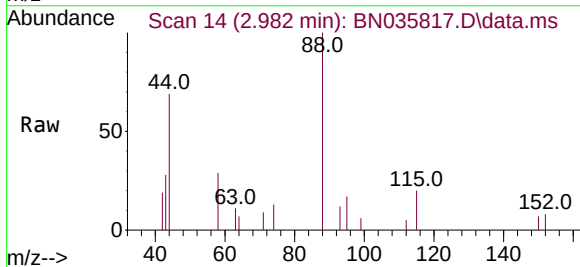
Manual Integrations
APPROVED

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

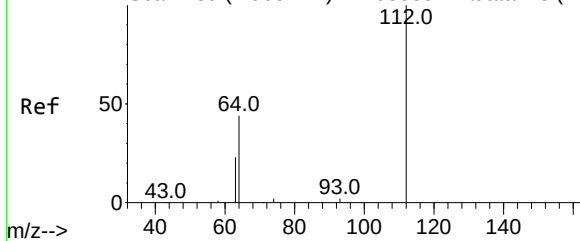


#2
1,4-Dioxane
Concen: 0.275 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 88 Resp: 759
Ion Ratio Lower Upper
88 100
43 31.1 17.2 25.8#
58 45.8 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.113 ng

RT: 4.924 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218

Tgt Ion:	112	Resp:	810
Ion Ratio	Lower	Upper	
112	100		
64	52.1	39.8	59.8
63	30.0	21.0	31.6

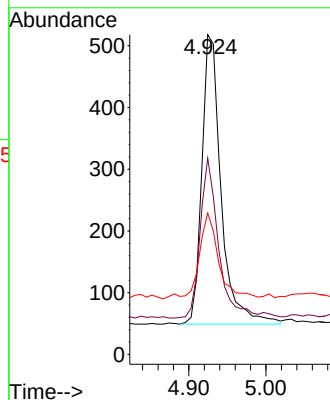
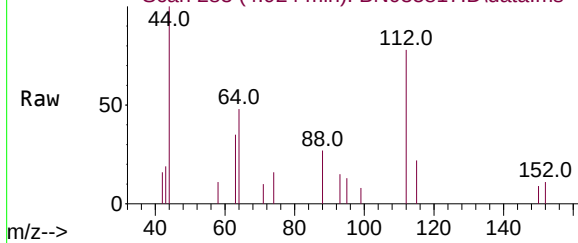
Manual Integrations

APPROVED

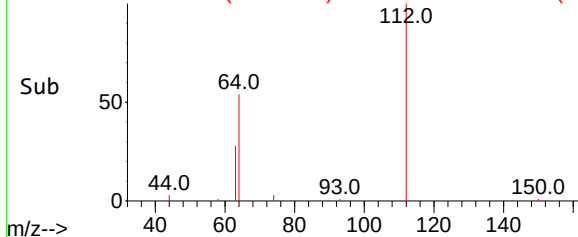
Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024

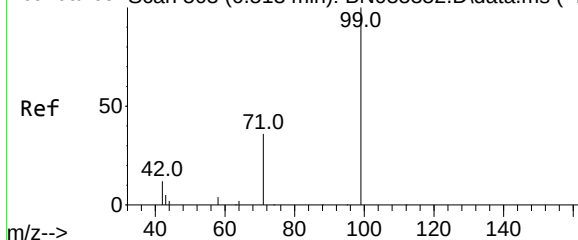
Abundance Scan 283 (4.924 min): BN035817.D\data.ms



Abundance Scan 283 (4.924 min): BN035817.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.054 ng

RT: 6.477 min Scan# 498

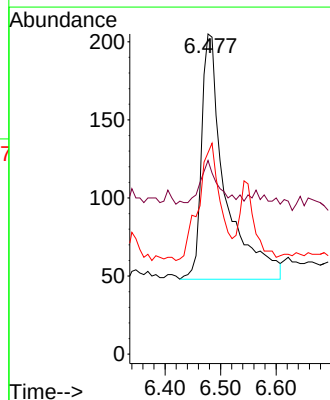
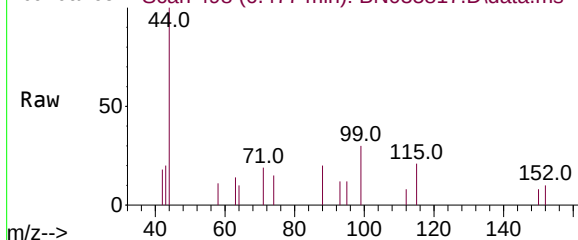
Delta R.T. -0.014 min

Lab File: BN035817.D

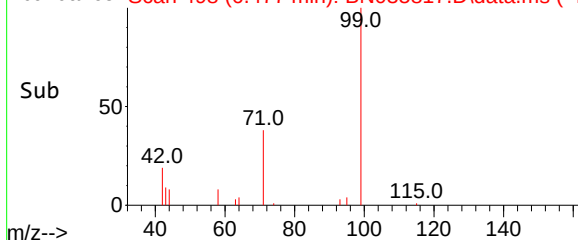
Acq: 24 Dec 2024 12:33

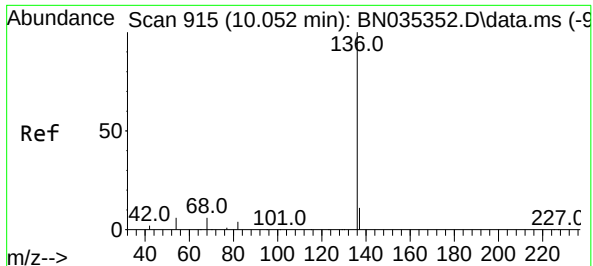
Tgt Ion:	99	Resp:	466
Ion Ratio	Lower	Upper	
99	100		
42	12.9	11.4	17.2
71	43.6	29.3	43.9

Abundance Scan 498 (6.477 min): BN035817.D\data.ms



Abundance Scan 498 (6.477 min): BN035817.D\data.ms (-47





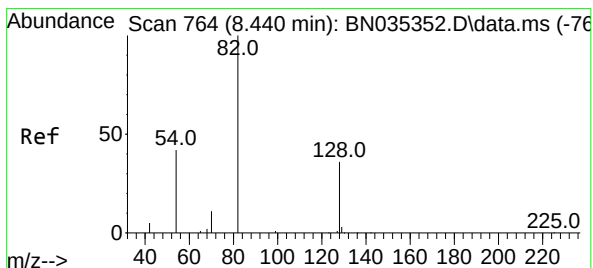
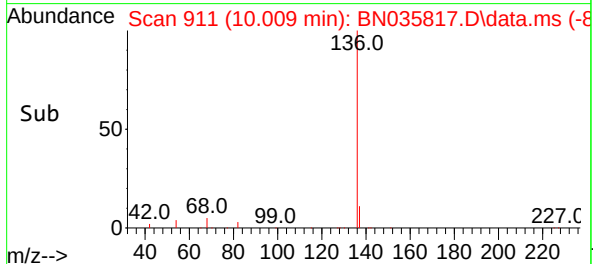
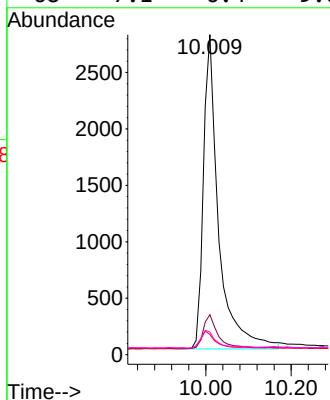
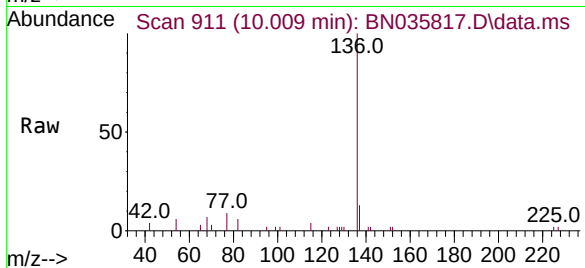
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.3	6.1	9.1
68	7.1	6.4	9.6

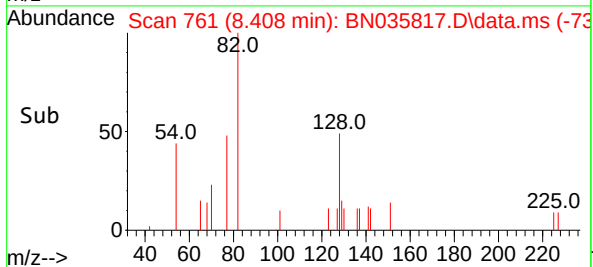
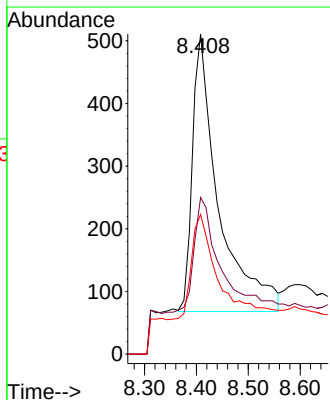
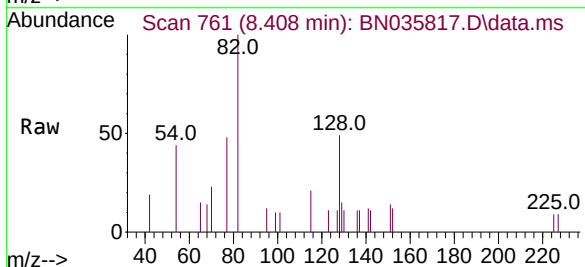
Manual Integrations
APPROVED

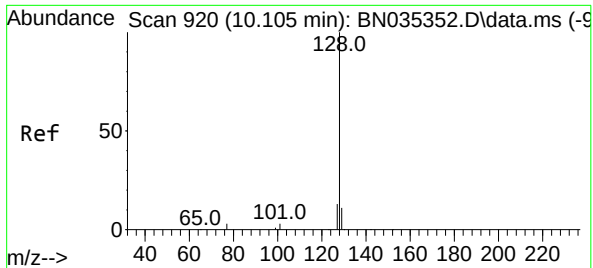
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.369 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

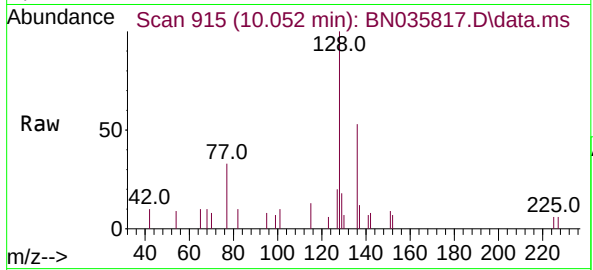
Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.9	33.4	50.0
54	43.6	36.7	55.1





#9
Naphthalene
Concen: 0.104 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

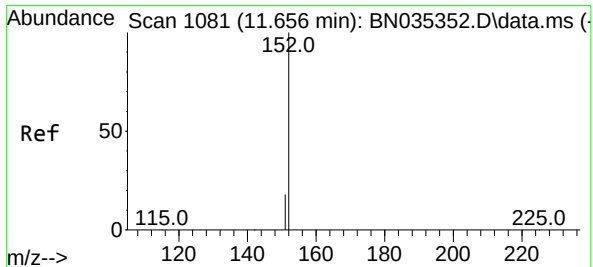
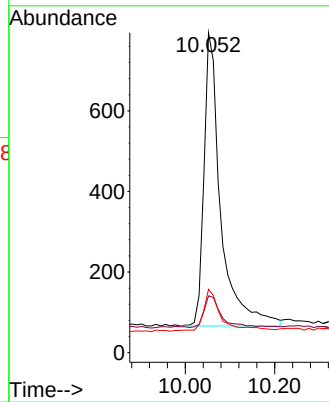
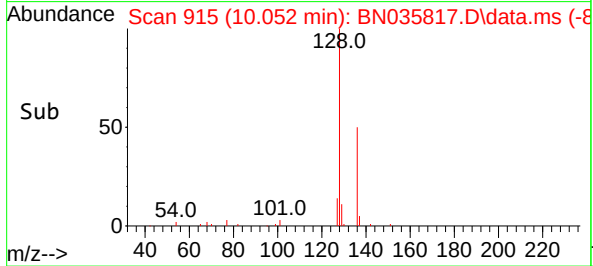
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:128 Resp: 189
Ion Ratio Lower Upper
128 100
129 17.8 9.8 14.6
127 19.8 11.4 17.2

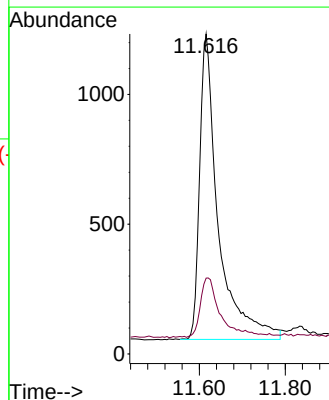
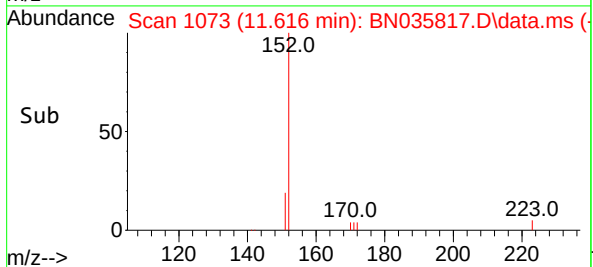
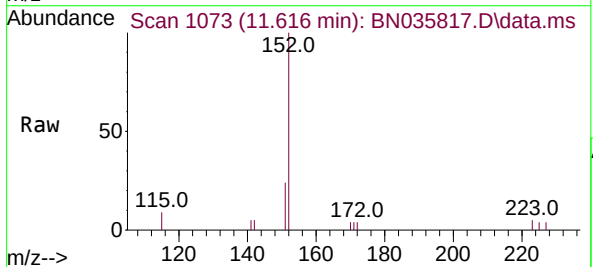
Manual Integrations
APPROVED

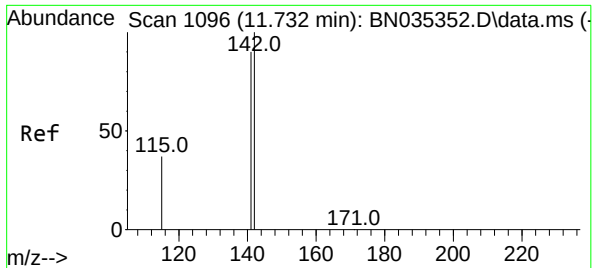
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

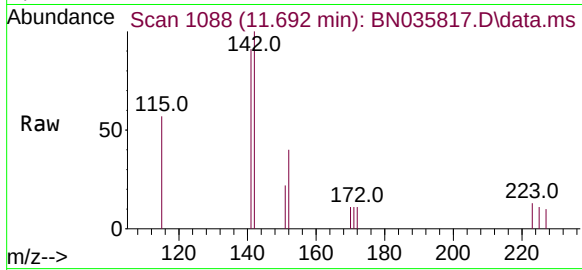
Tgt Ion:152 Resp: 3542
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0





#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 11.692 min Scan# 1096
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

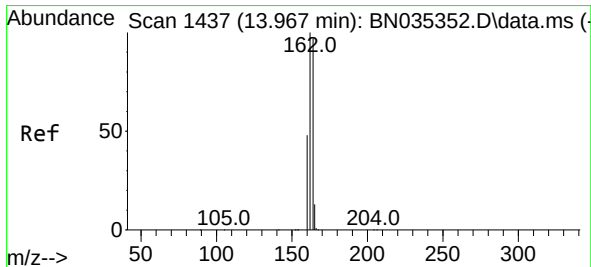
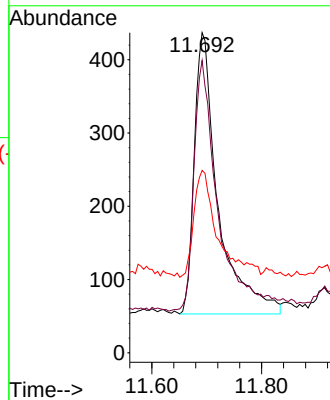
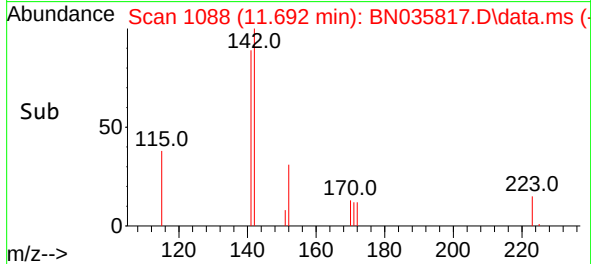
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:142 Resp: 115
Ion Ratio Lower Upper
142 100
141 91.3 72.2 108.4
115 57.0 31.4 47.0

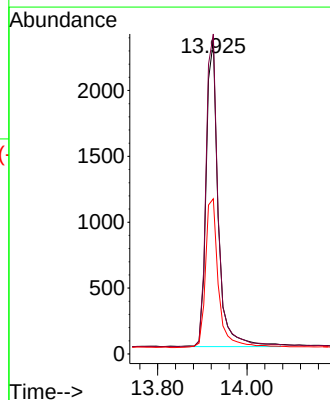
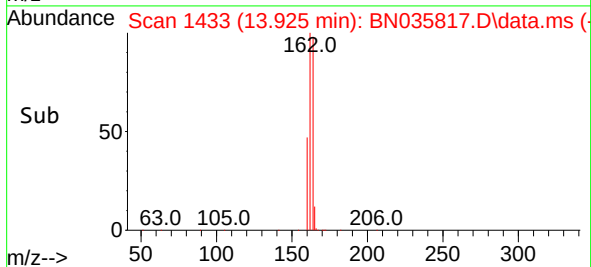
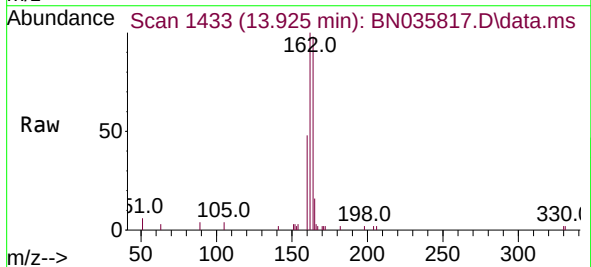
Manual Integrations
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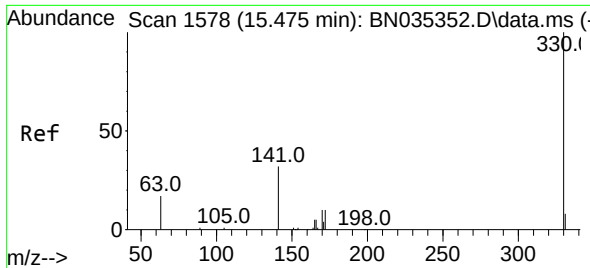
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

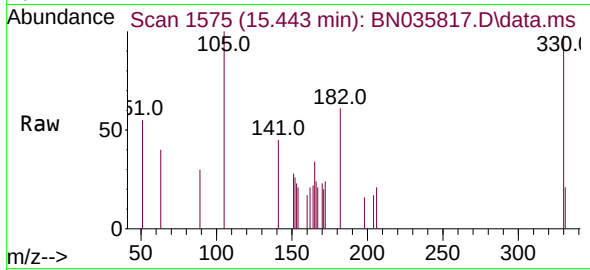
Tgt Ion:164 Resp: 4352
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 49.6 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

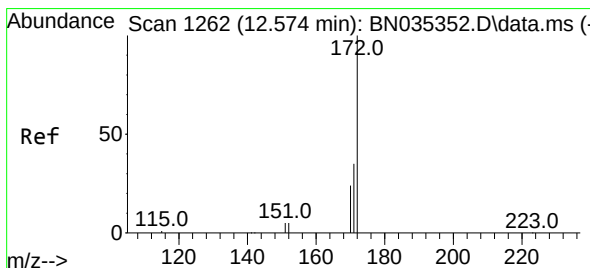
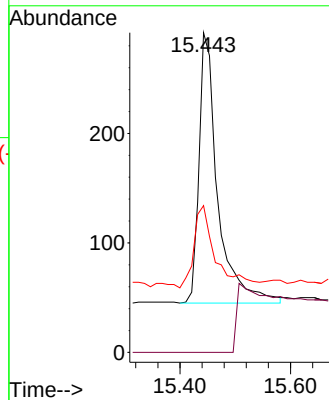
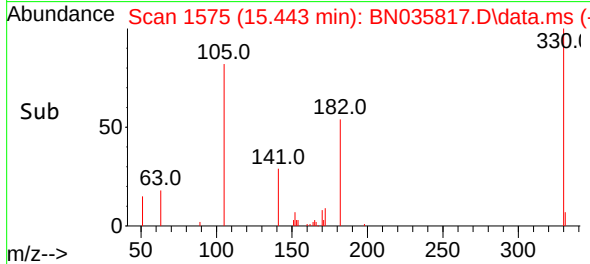
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:330 Resp: 609
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.3 26.6 40.0

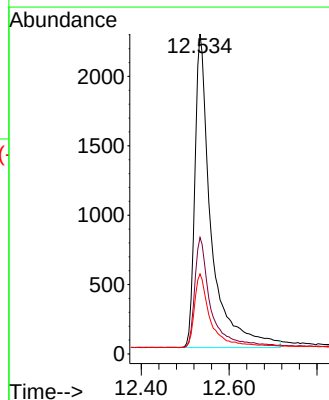
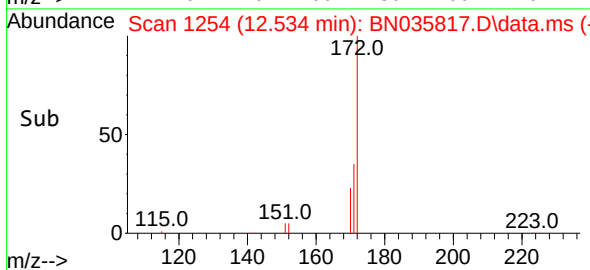
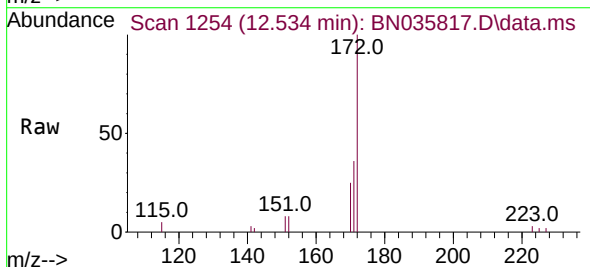
Manual Integrations
APPROVED

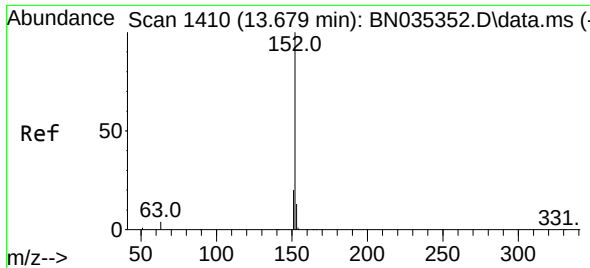
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

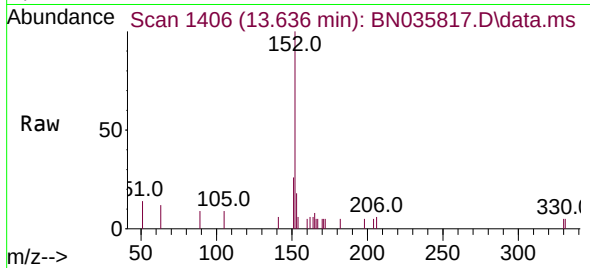
Tgt Ion:172 Resp: 5853
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 25.0 19.8 29.8





#16
Acenaphthylene
Concen: 0.105 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

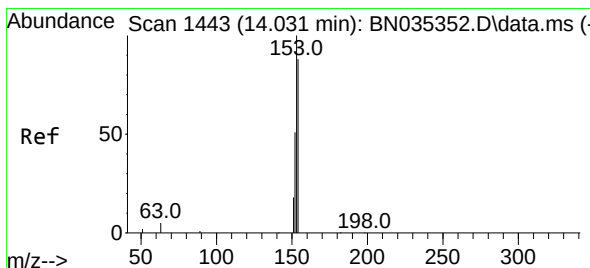
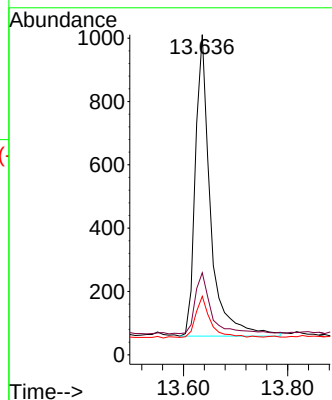
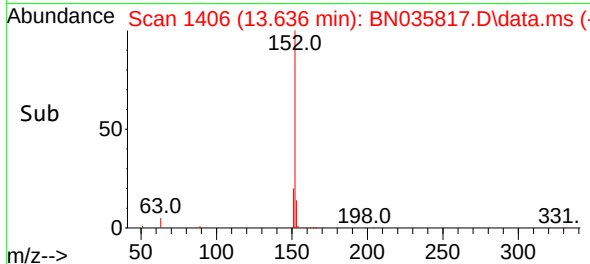
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:152 Resp: 1924
Ion Ratio Lower Upper
152 100
151 20.9 16.2 24.2
153 14.4 10.4 15.6

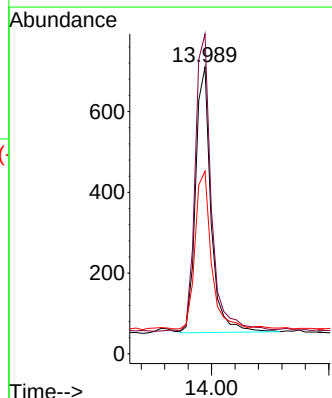
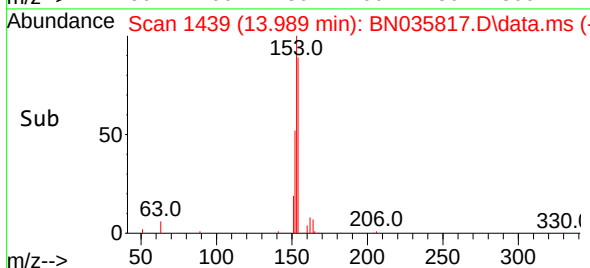
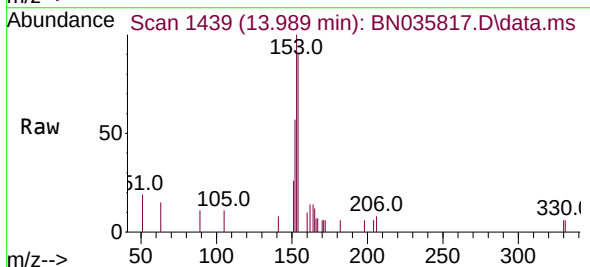
Manual Integrations
APPROVED

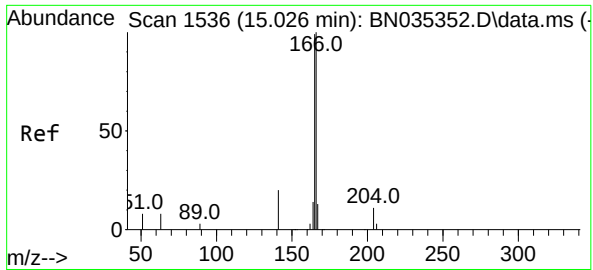
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.099 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

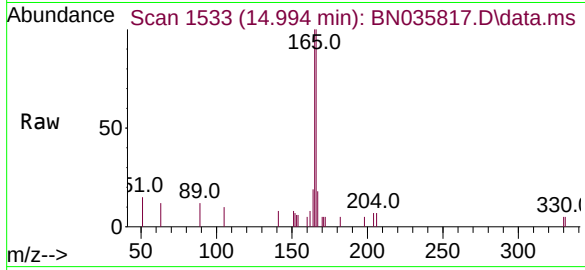
Tgt Ion:154 Resp: 1204
Ion Ratio Lower Upper
154 100
153 117.5 92.6 139.0
152 62.0 49.0 73.6





#18
Fluorene
Concen: 0.097 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

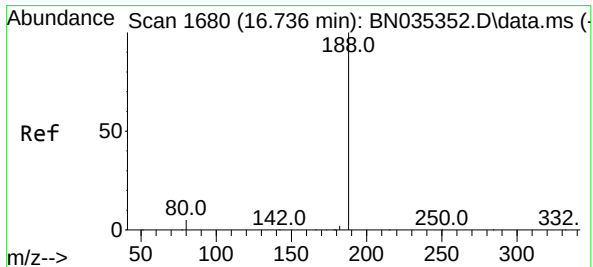
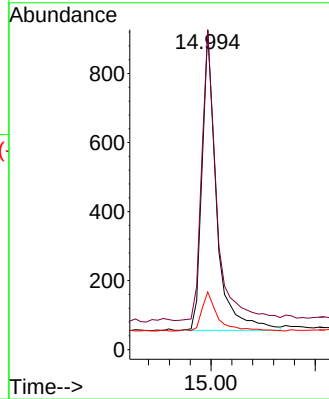
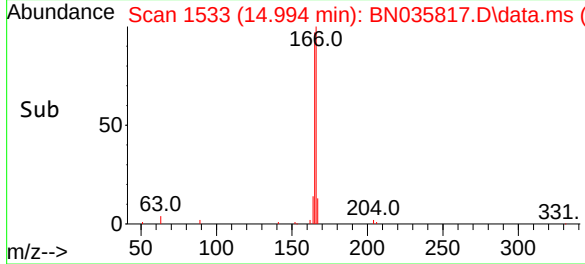
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:166 Resp: 1680
Ion Ratio Lower Upper
166 100
165 99.0 79.7 119.5
167 14.3 10.8 16.2

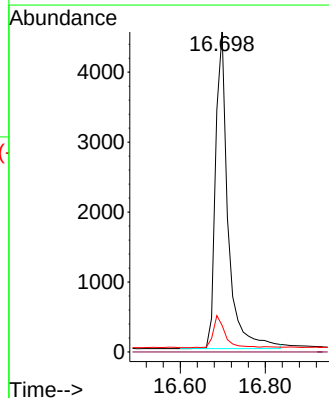
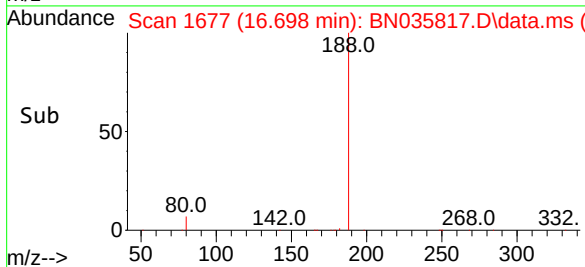
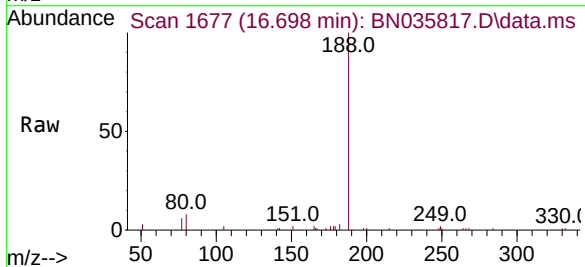
Manual Integrations
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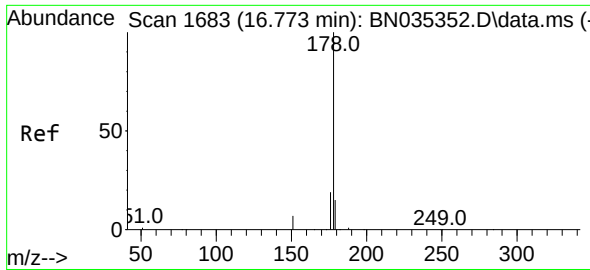
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

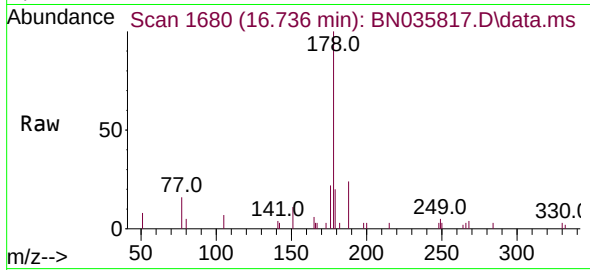
Tgt Ion:188 Resp: 9250
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.6 6.8





#25
Phenanthrene
Concen: 0.127 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

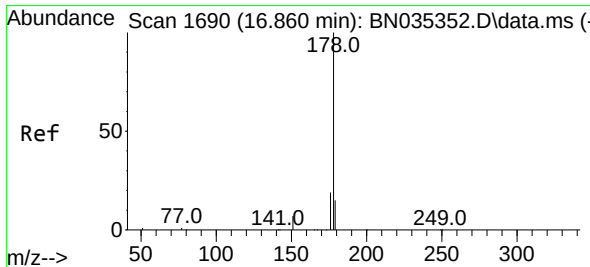
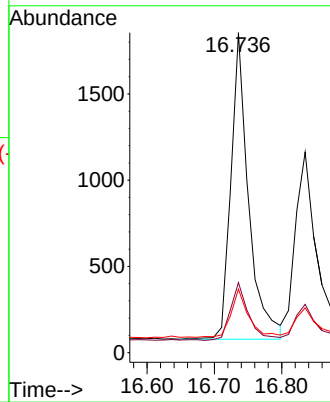
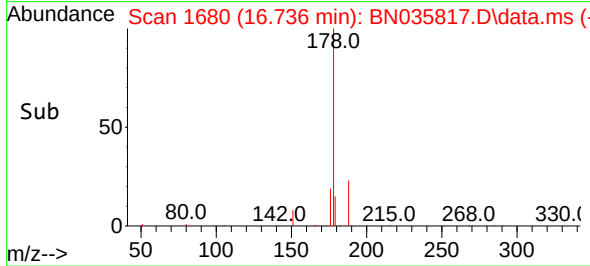
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:178 Resp: 323
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.6 12.3 18.5

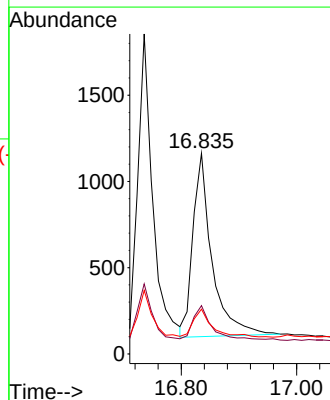
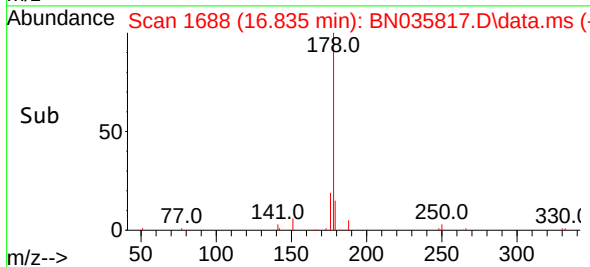
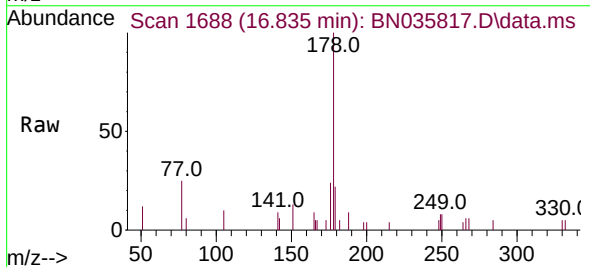
Manual Integrations
APPROVED

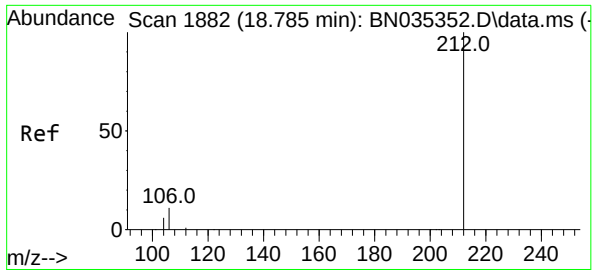
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.106 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 2442
Ion Ratio Lower Upper
178 100
176 20.4 15.0 22.6
179 16.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.390 ng

RT: 18.748 min Scan# 1874

Delta R.T. -0.014 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218

Tgt Ion:212 Resp: 10238

Ion Ratio Lower Upper

212 100

106 11.4 9.2 13.8

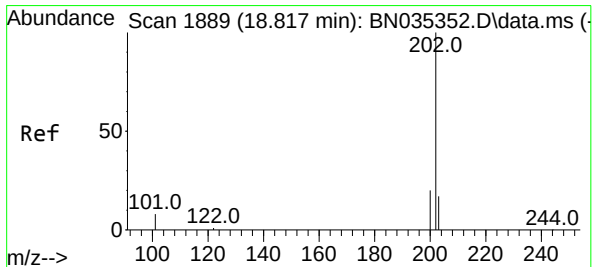
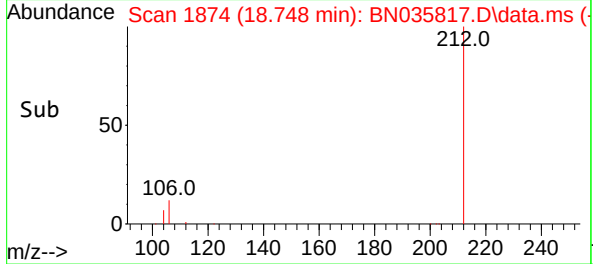
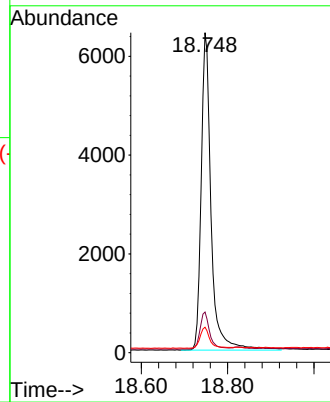
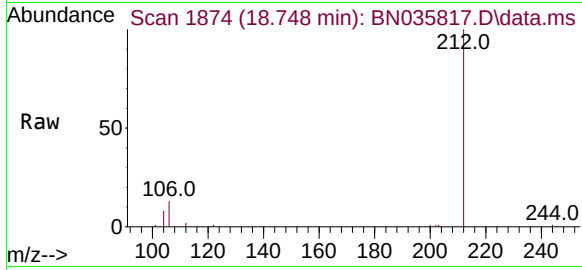
104 6.4 5.3 7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#28

Fluoranthene

Concen: 0.109 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.009 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

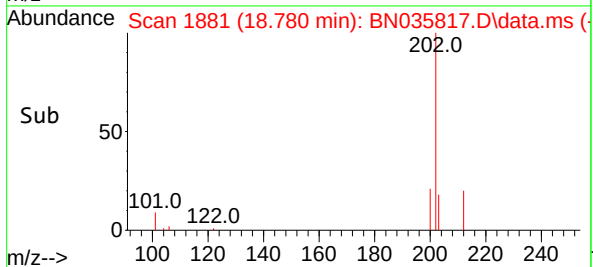
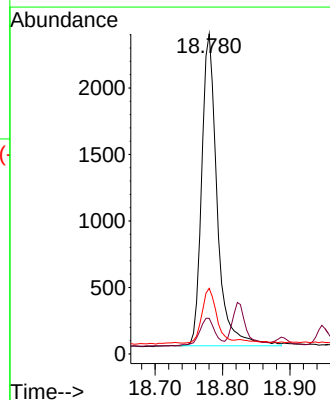
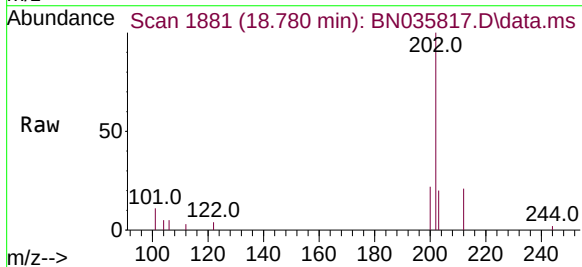
Tgt Ion:202 Resp: 3731

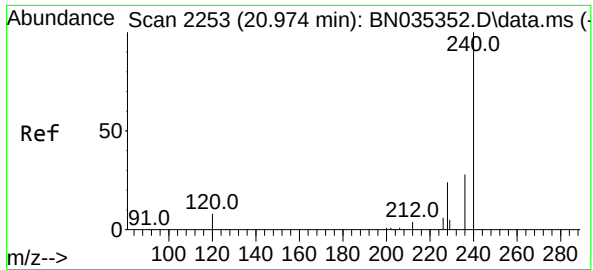
Ion Ratio Lower Upper

202 100

101 8.9 7.4 11.0

203 16.6 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218

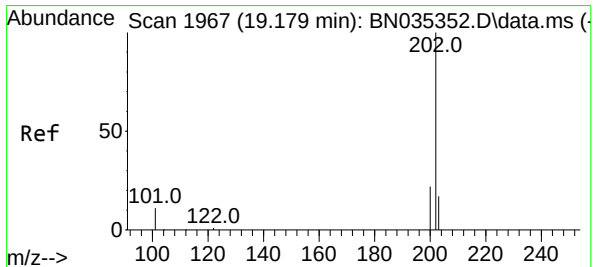
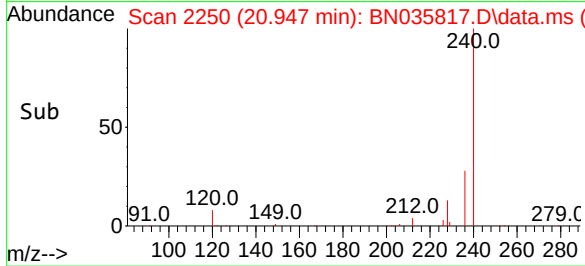
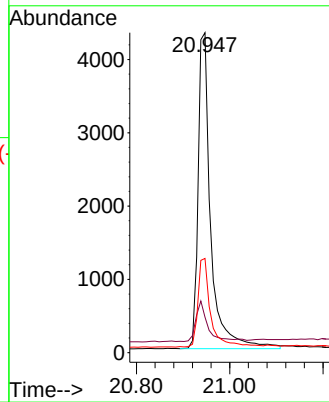
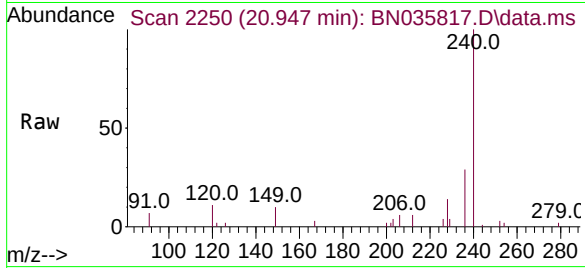
Tgt Ion:	240	Resp:	8129
Ion Ratio	Lower	Upper	
240	100		
120	11.1	7.9	11.9
236	29.4	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.133 ng

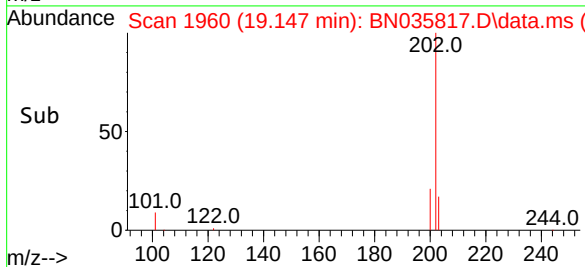
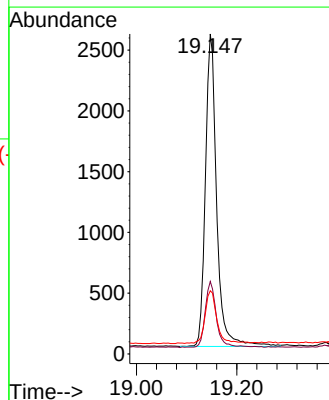
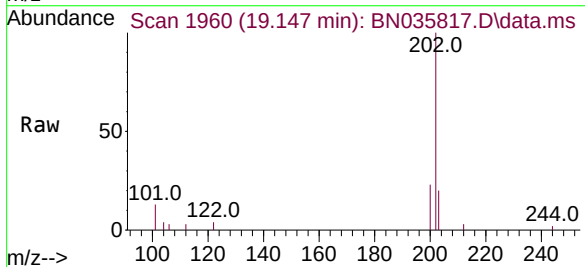
RT: 19.147 min Scan# 1960

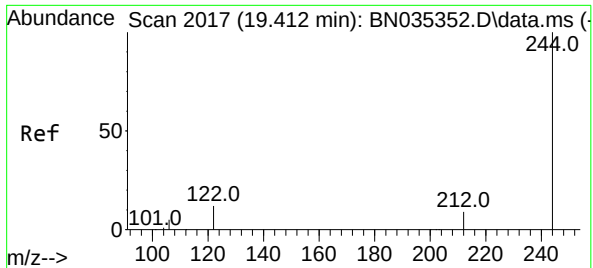
Delta R.T. -0.014 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Tgt Ion:	202	Resp:	4005
Ion Ratio	Lower	Upper	
202	100		
200	20.6	17.0	25.4
203	17.4	14.3	21.5





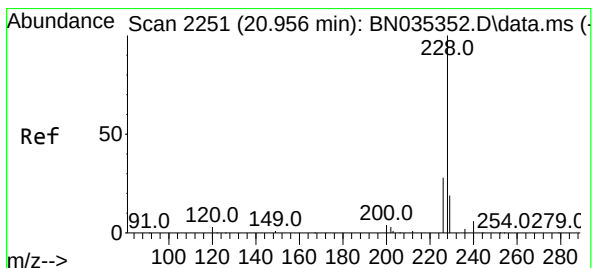
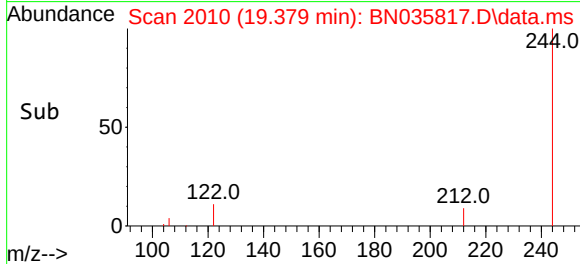
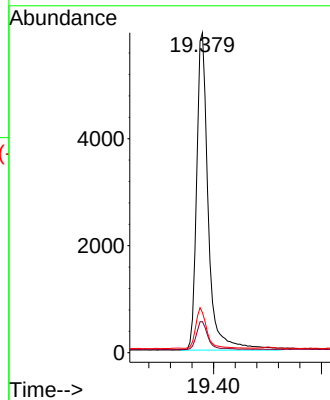
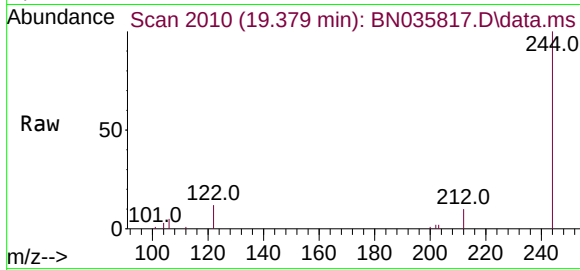
#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:244 Resp: 886
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5

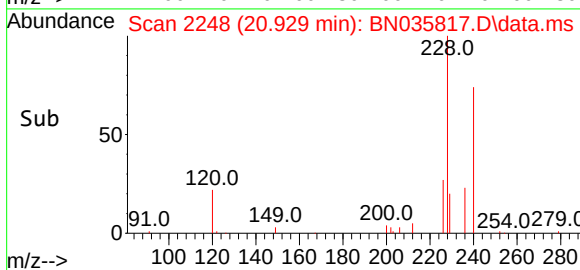
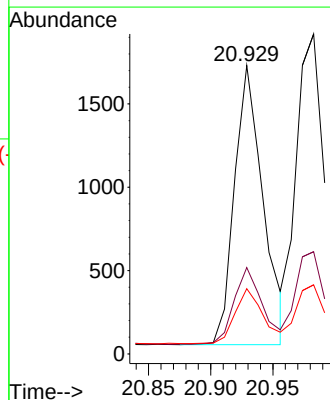
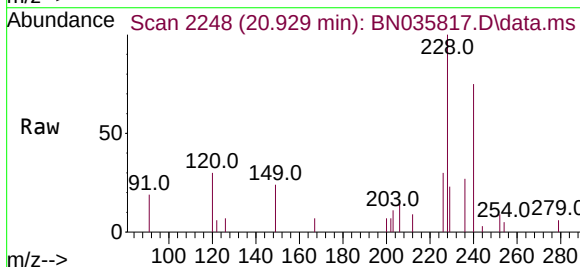
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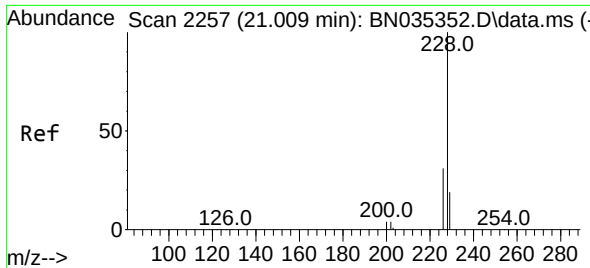
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.094 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

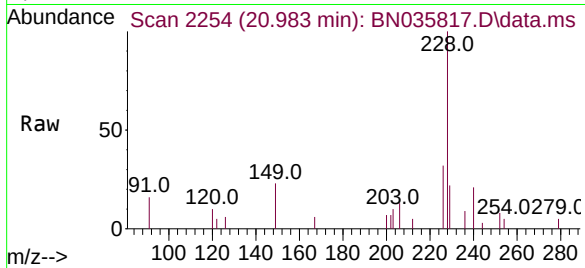
Tgt Ion:228 Resp: 2676
Ion Ratio Lower Upper
228 100
226 29.9 22.5 33.7
229 22.6 15.8 23.8





#33
Chrysene
Concen: 0.119 ng
RT: 20.983 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

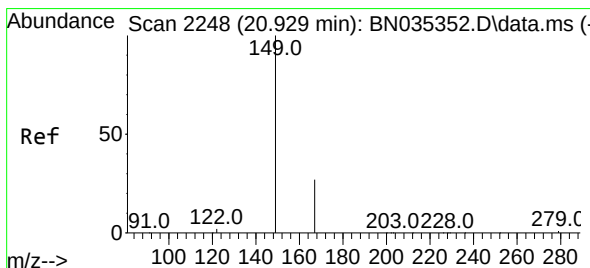
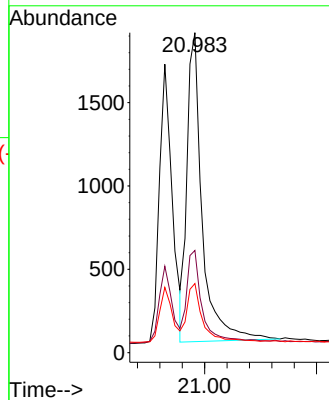
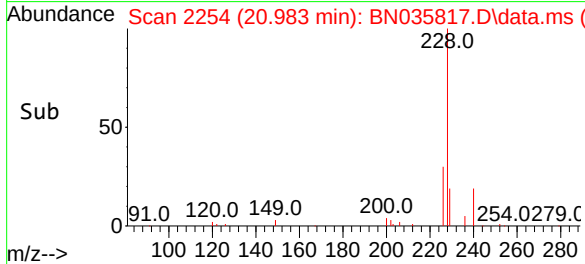
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:228 Resp: 349
Ion Ratio Lower Upper
228 100
226 31.9 24.6 37.0
229 21.6 15.9 23.9

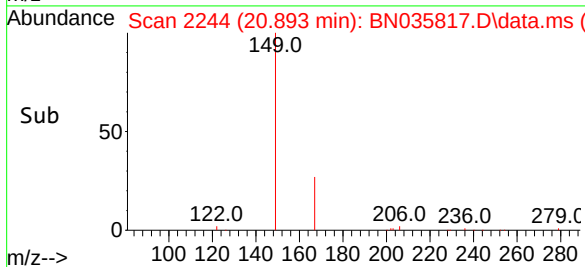
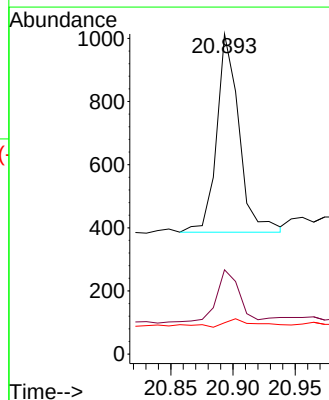
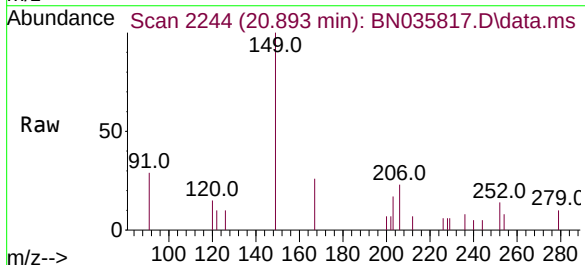
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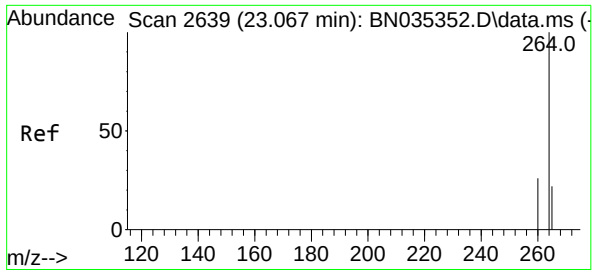
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

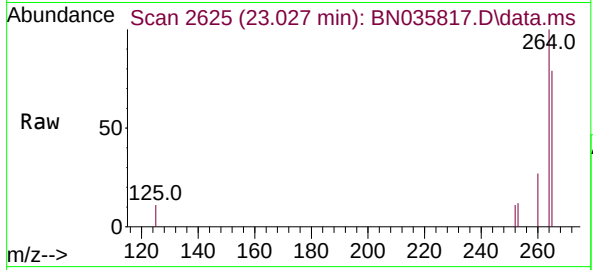
Tgt Ion:149 Resp: 786
Ion Ratio Lower Upper
149 100
167 27.0 22.2 33.4
279 6.1 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

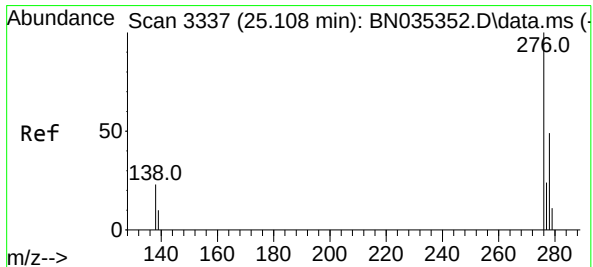
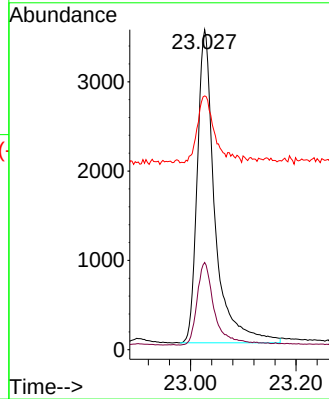
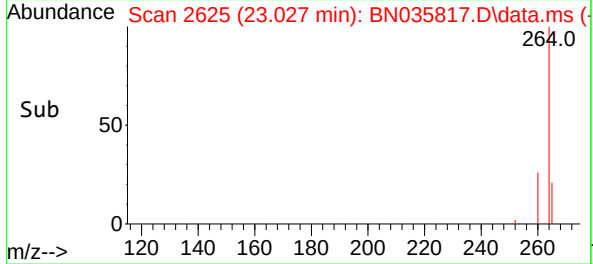
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218



Tgt Ion:264 Resp: 8120
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 79.3 40.2 60.4

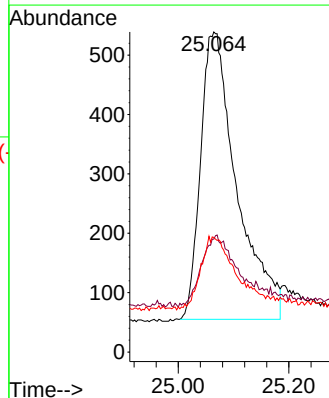
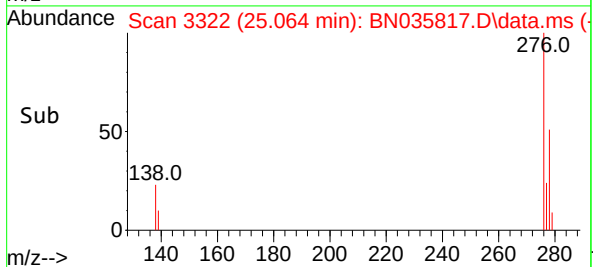
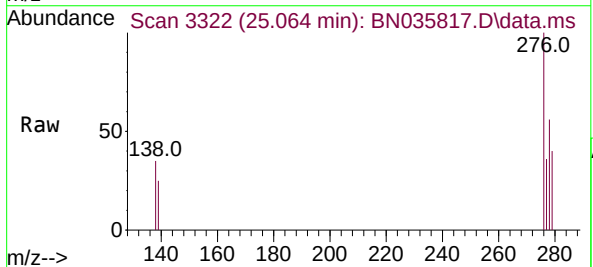
Manual Integrations
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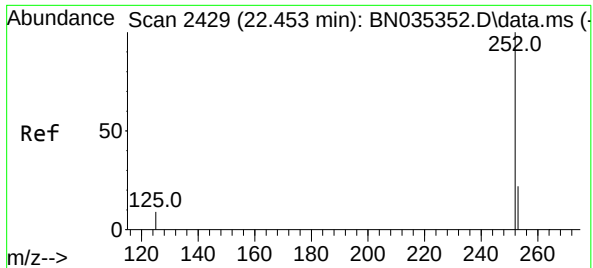
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 2211
Ion Ratio Lower Upper
276 100
138 23.7 19.4 29.0
277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.113 ng

RT: 22.421 min Scan# 2418

Delta R.T. -0.009 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

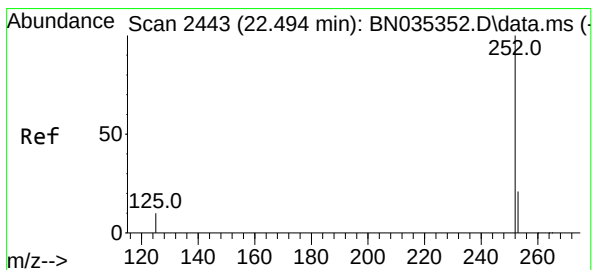
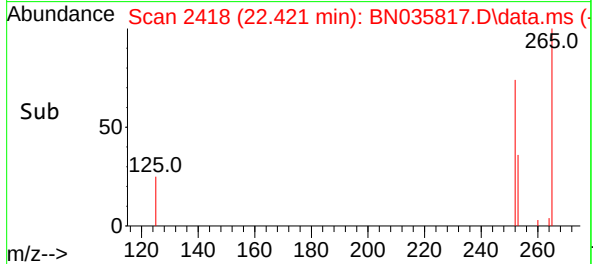
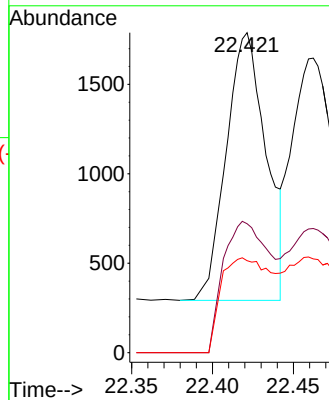
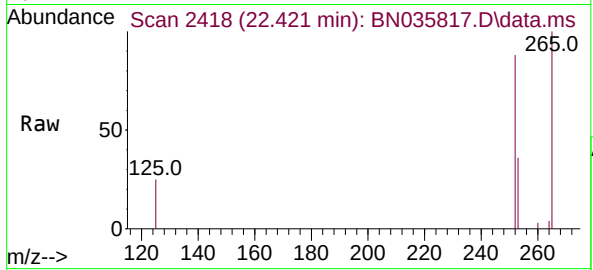
TT149S1-20241218

Tgt Ion:	252	Resp:	3364
Ion Ratio	Lower	Upper	
252	100		
253	40.3	19.6	29.4#
125	28.7	9.6	14.4#

Manual Integrations

APPROVED

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



#38

Benzo(k)fluoranthene

Concen: 0.100 ng

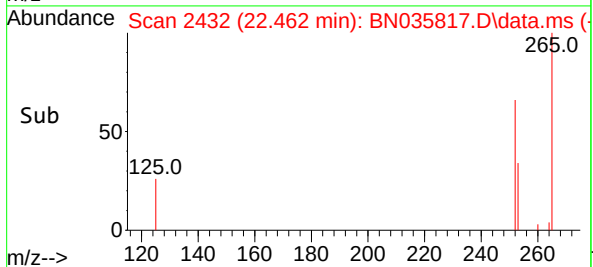
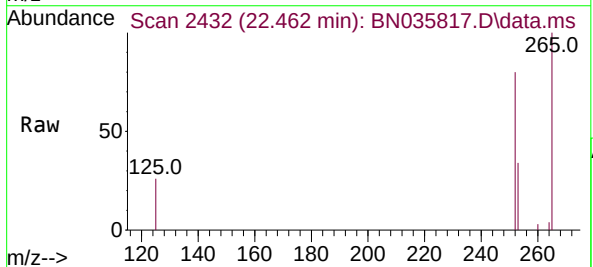
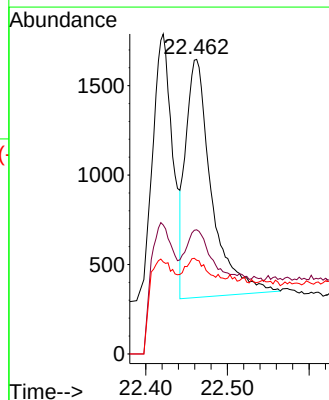
RT: 22.462 min Scan# 2432

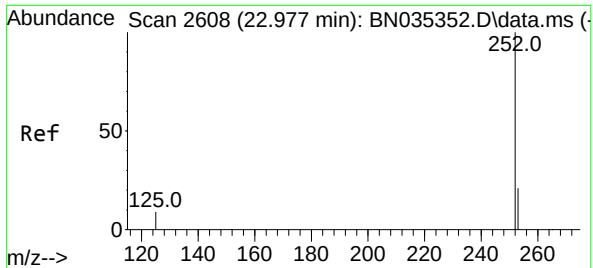
Delta R.T. -0.009 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Tgt Ion:	252	Resp:	2940
Ion Ratio	Lower	Upper	
252	100		
253	42.1	19.5	29.3#
125	31.8	10.2	15.4#





#39

Benzo(a)pyrene

Concen: 0.085 ng

RT: 22.942 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035817.D

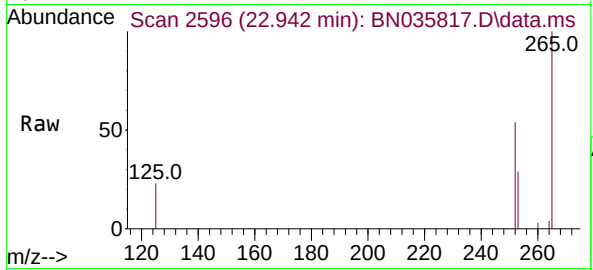
Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218



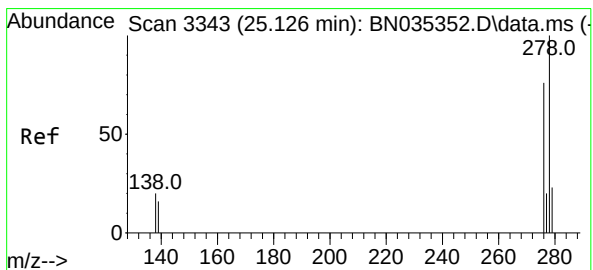
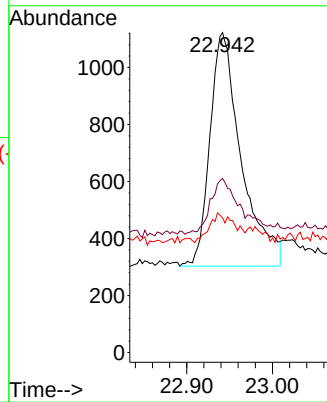
Tgt Ion:	252	Resp:	208
Ion Ratio	Lower	Upper	
252	100		
253	54.5	20.2	30.4
125	42.1	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

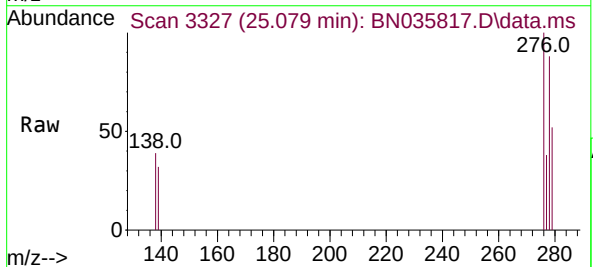
Concen: 0.068 ng

RT: 25.079 min Scan# 3327

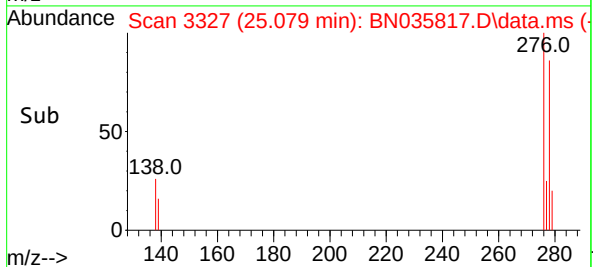
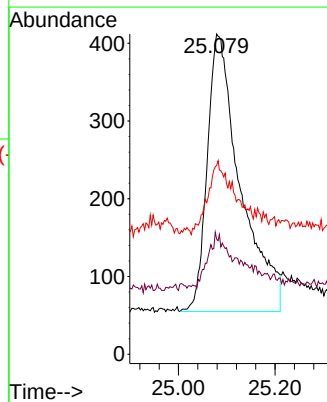
Delta R.T. -0.003 min

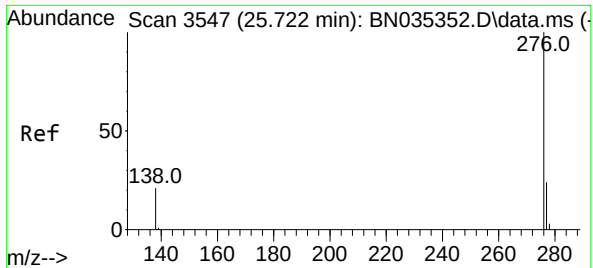
Lab File: BN035817.D

Acq: 24 Dec 2024 12:33



Tgt Ion:	278	Resp:	1701
Ion Ratio	Lower	Upper	
278	100		
139	35.9	14.2	21.4
279	59.0	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.075 ng

RT: 25.667 min Scan# 3

Delta R.T. -0.012 min

Lab File: BN035817.D

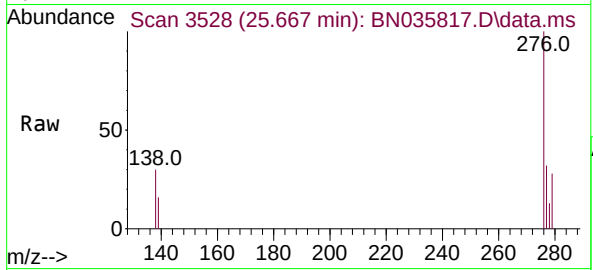
Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218



Tgt Ion:276 Resp: 196

Ion Ratio Lower Upper

276 100

277 32.1 19.9 29.9

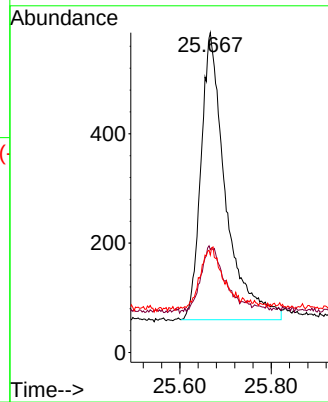
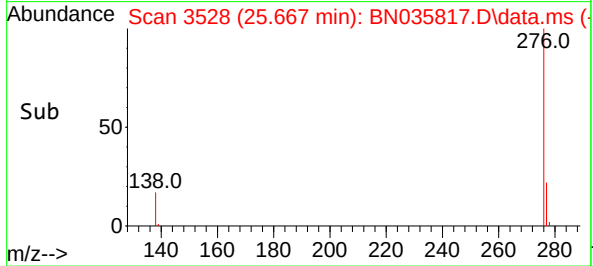
138 30.4 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	DUP-07-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN035818.D	1	12/23/24 13:29	12/24/24 13:08	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		144%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3050	7.257				
1146-65-2	Naphthalene-d8	7420	10.009				
15067-26-2	Acenaphthene-d10	4770	13.925				
1517-22-2	Phenanthrene-d10	10100	16.698				
1719-03-5	Chrysene-d12	8730	20.947				
1520-96-3	Perylene-d12	8950	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\BN122324\
 Data File : BN035818.D
 Acq On : 24 Dec 2024 13:08
 Operator : RC/JU
 Sample : P5376-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP-07-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:18:00 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	7.257	152	3045	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7417	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	4769	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10054	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8730	0.400	ng	0.00
35) Perylene-d12	23.026	264	8948	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	828	0.109	ng	-0.01
5) Phenol-d6	6.477	99	491	0.054	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1728m	0.381	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4011	0.346	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	736	0.217	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	6868	0.381	ng	-0.01
27) Fluoranthene-d10	18.747	212	11709	0.411	ng	-0.01
31) Terphenyl-d14	19.379	244	9932	0.577	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	761	0.261	ng	89
9) Naphthalene	10.052	128	2140	0.109	ng	# 90
12) 2-Methylnaphthalene	11.687	142	1347	0.096	ng	# 92
16) Acenaphthylene	13.636	152	2222	0.111	ng	98
17) Acenaphthene	13.978	154	1464	0.110	ng	99
18) Fluorene	14.994	166	2023	0.106	ng	99
25) Phenanthrene	16.736	178	3999	0.145	ng	98
26) Anthracene	16.835	178	3041	0.122	ng	99
28) Fluoranthene	18.780	202	4605	0.124	ng	98
30) Pyrene	19.147	202	4782	0.148	ng	99
32) Benzo(a)anthracene	20.929	228	3217	0.105	ng	95
33) Chrysene	20.983	228	4153	0.132	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1111	0.092	ng	99
36) Indeno(1,2,3-cd)pyrene	25.064	276	2885	0.082	ng	97
37) Benzo(b)fluoranthene	22.418	252	5898	0.180	ng	# 67
38) Benzo(k)fluoranthene	22.459	252	3531m	0.110	ng	
39) Benzo(a)pyrene	22.942	252	2686	0.100	ng	# 49
40) Dibenzo(a,h)anthracene	25.085	278	2103	0.076	ng	# 58
41) Benzo(g,h,i)perylene	25.667	276	2516	0.087	ng	# 83

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

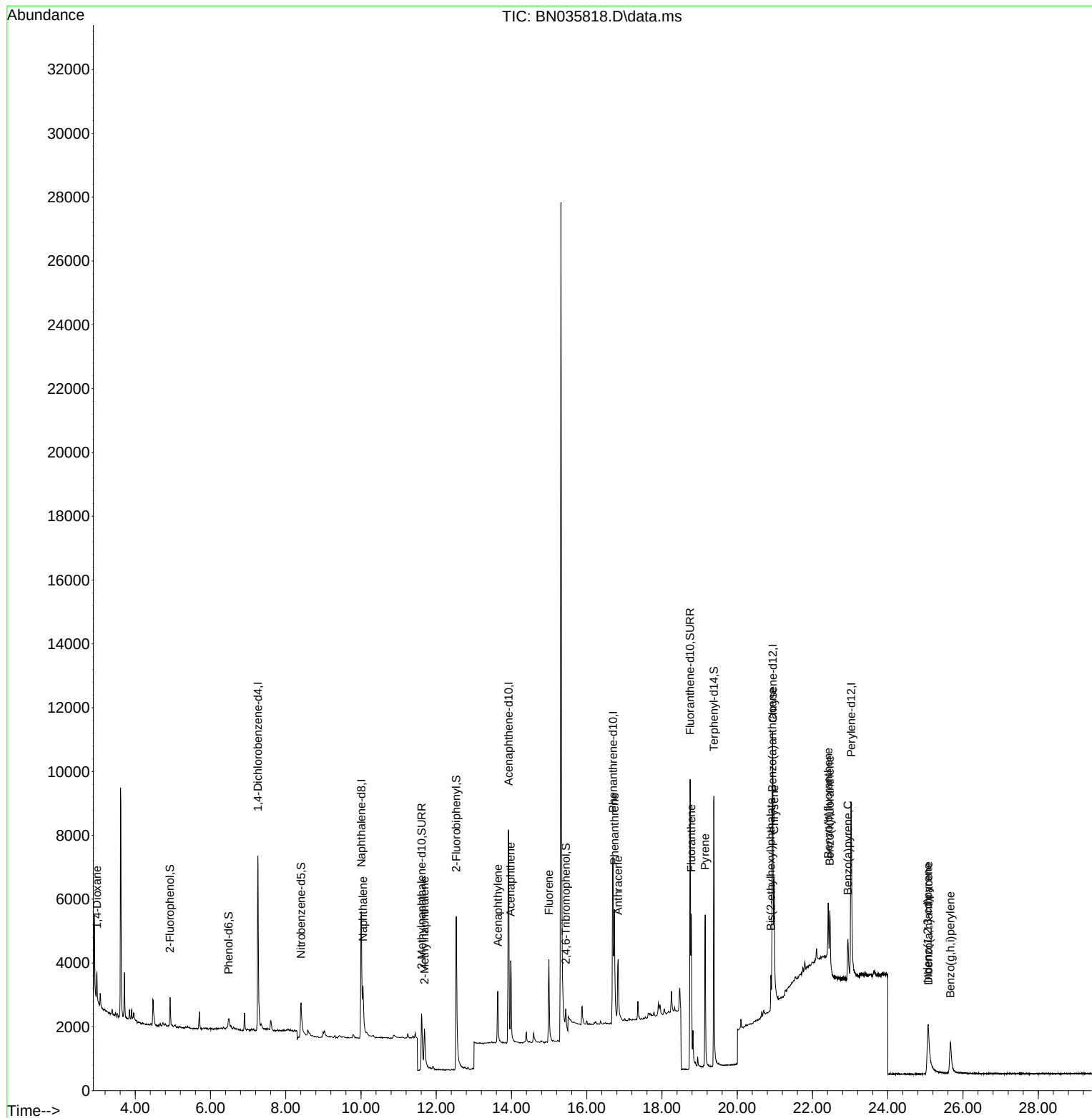
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Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

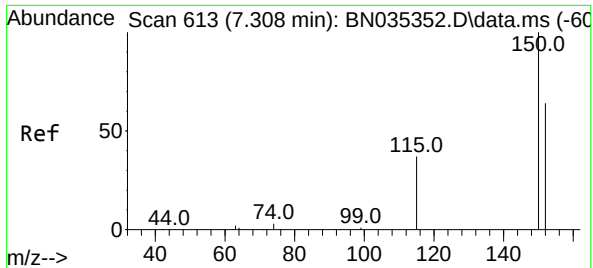
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Quant Time: Dec 24 23:18:00 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
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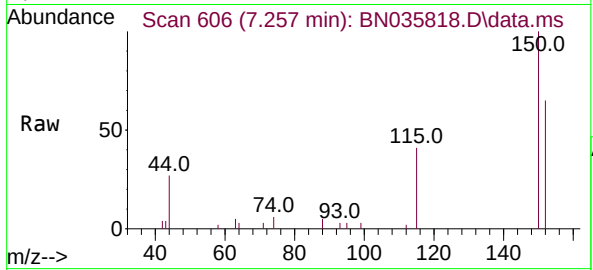
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

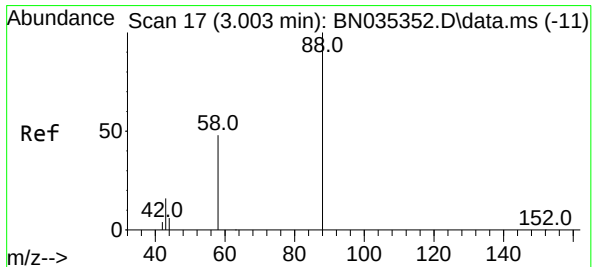
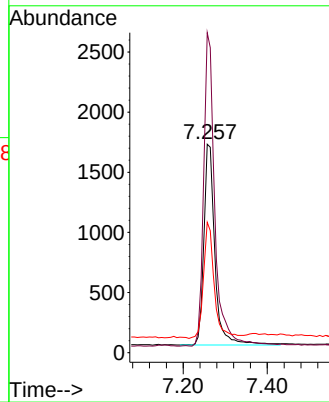
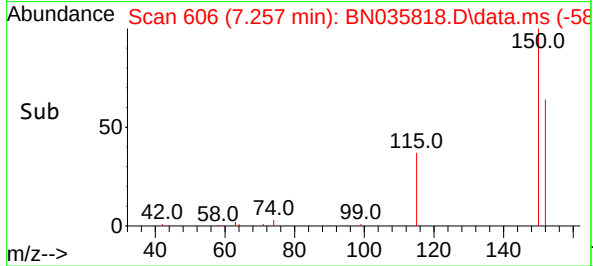
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:152 Resp: 304
Ion Ratio Lower Upper
152 100
150 153.5 124.0 186.0
115 62.5 49.6 74.4

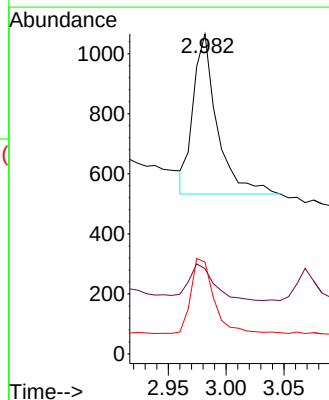
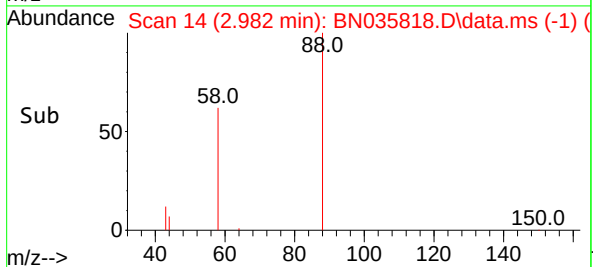
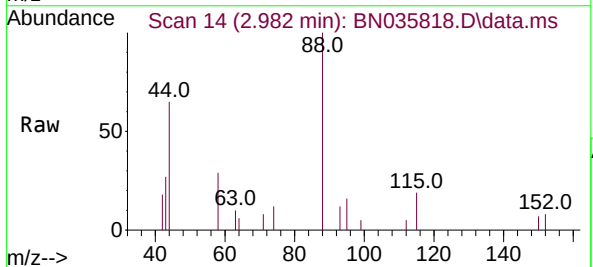
Manual Integrations
APPROVED

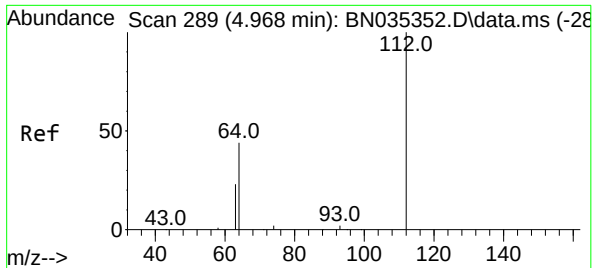
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.261 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 88 Resp: 761
Ion Ratio Lower Upper
88 100
43 24.3 17.2 25.8
58 45.9 44.5 66.7





#4
2-Fluorophenol
Concen: 0.109 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

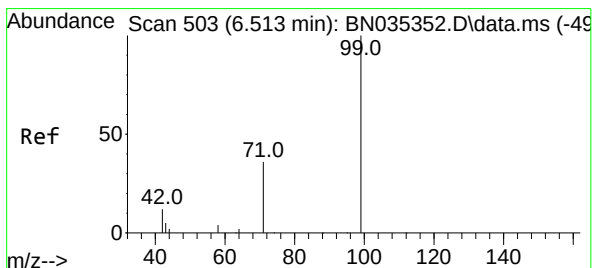
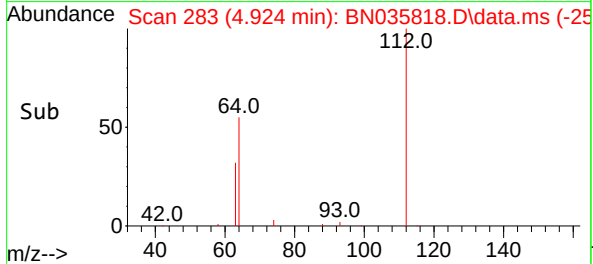
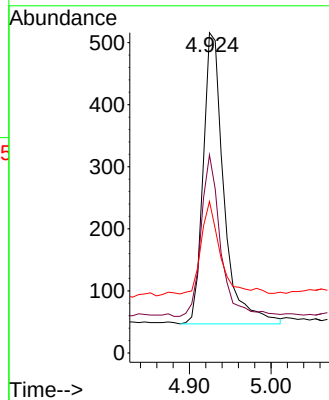
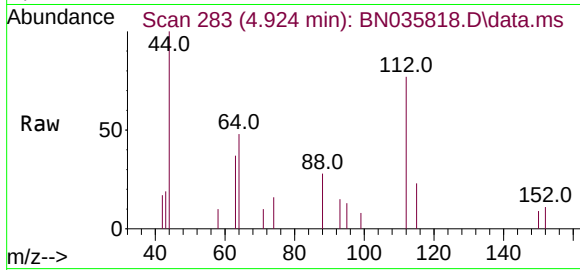
DUP-07-20241218

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	31.0	21.0	31.6

Manual Integrations

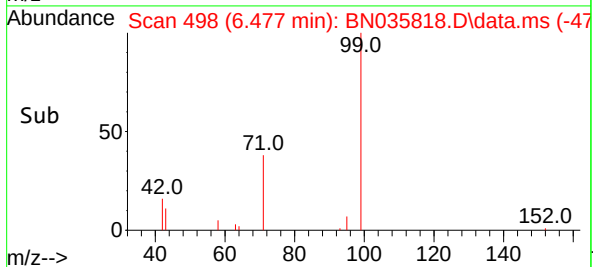
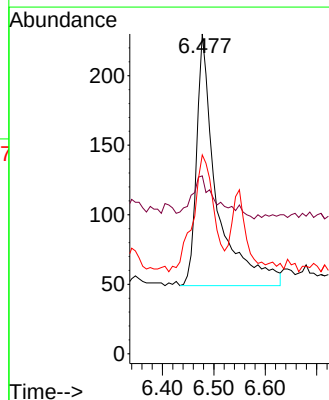
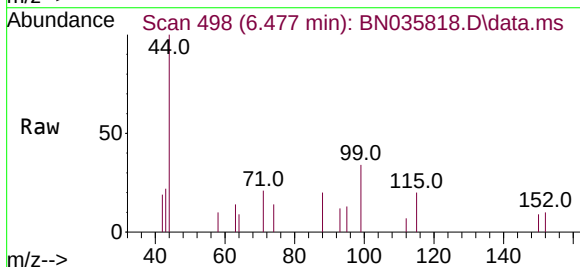
APPROVED

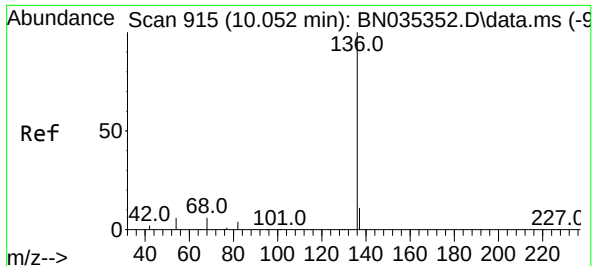
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

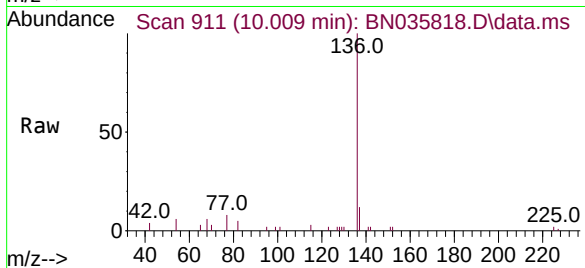
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.8	11.4	17.2#
71	47.9	29.3	43.9#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

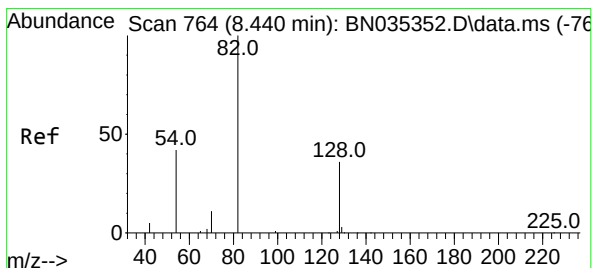
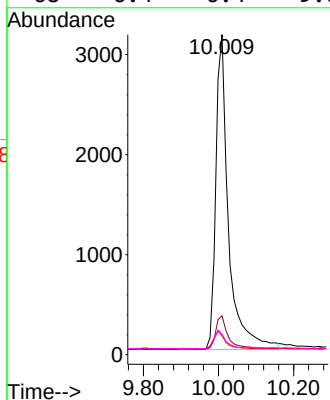
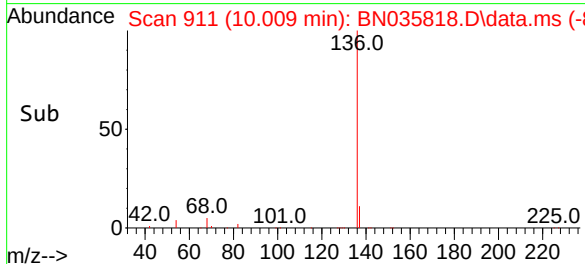
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion: 136 Resp: 741
Ion Ratio Lower Upper
136 100
137 12.2 10.2 15.2
54 5.9 6.1 9.1
68 6.4 6.4 9.6

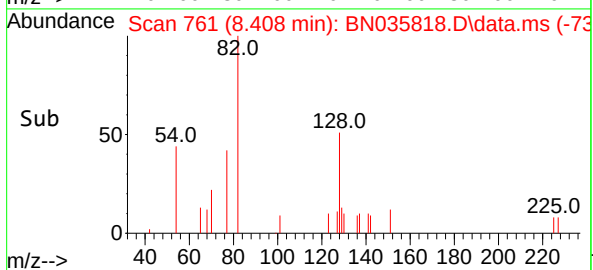
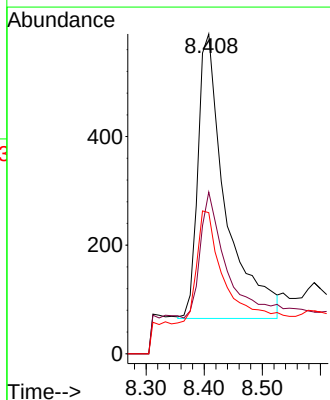
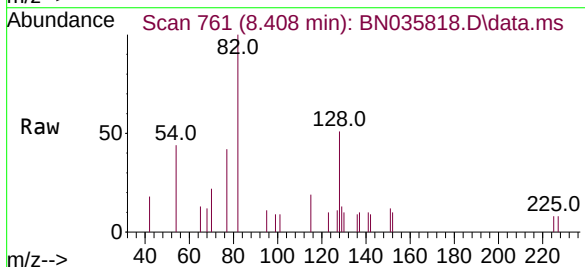
Manual Integrations
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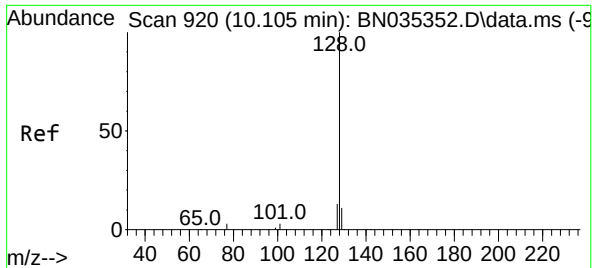
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.381 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

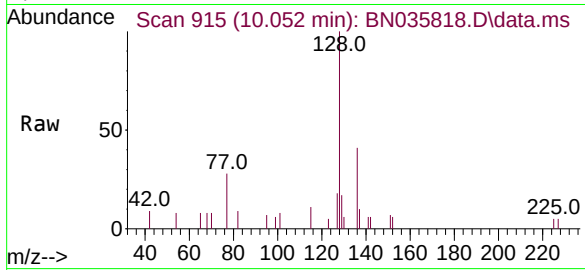
Tgt Ion: 82 Resp: 1728
Ion Ratio Lower Upper
82 100
128 50.6 33.4 50.0#
54 44.1 36.7 55.1





#9
Naphthalene
Concen: 0.109 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

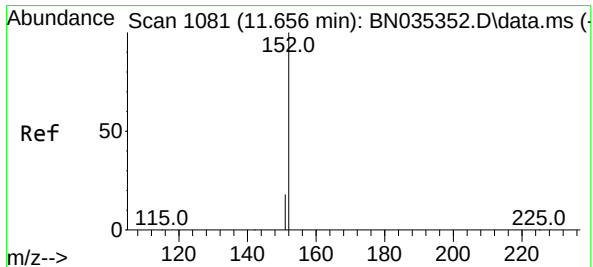
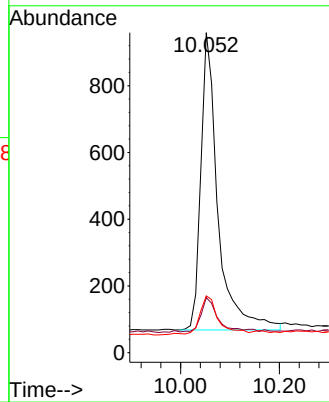
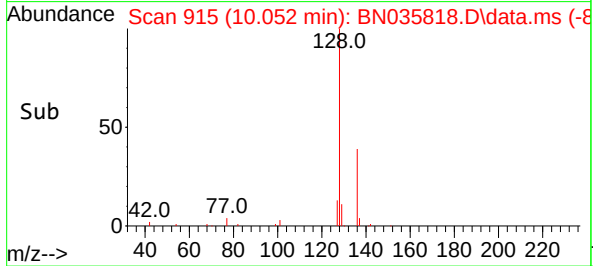
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:128 Resp: 2140
Ion Ratio Lower Upper
128 100
129 17.2 9.8 14.6
127 17.7 11.4 17.2

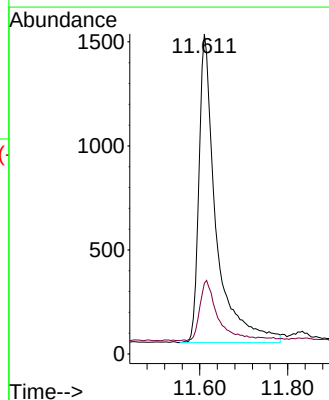
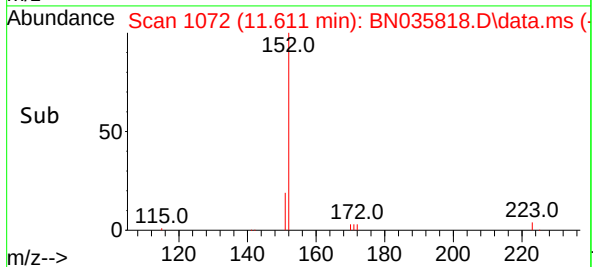
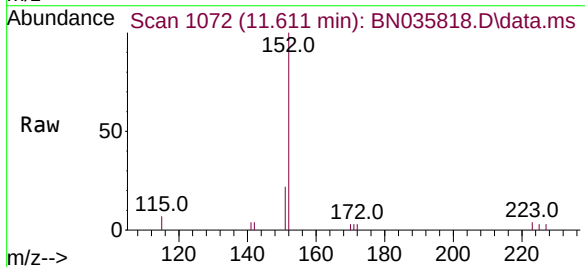
Manual Integrations
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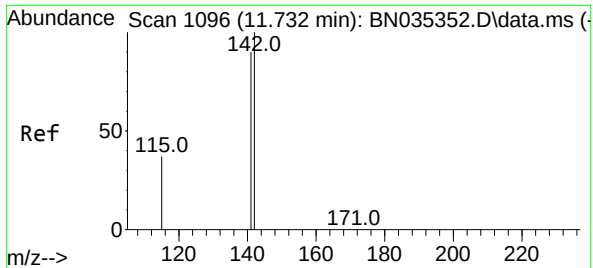
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

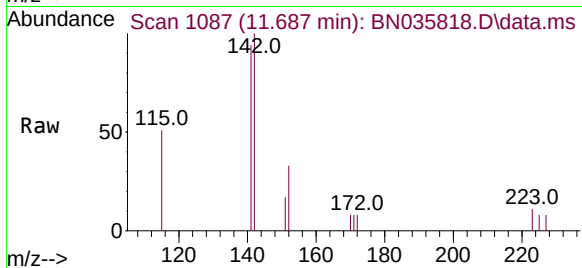
Tgt Ion:152 Resp: 4011
Ion Ratio Lower Upper
152 100
151 20.3 16.6 25.0





#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.687 min Scan# 1096
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

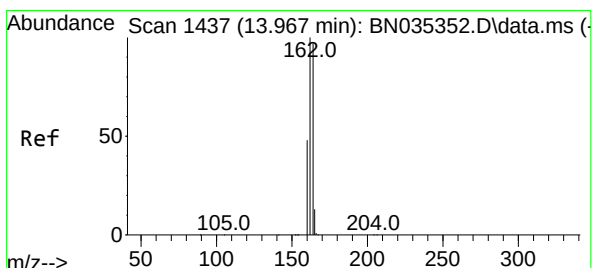
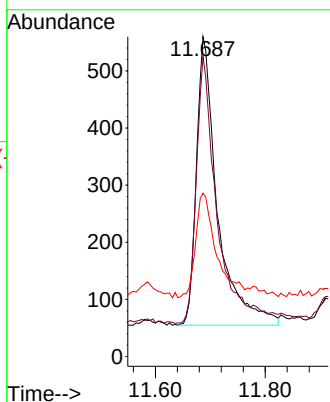
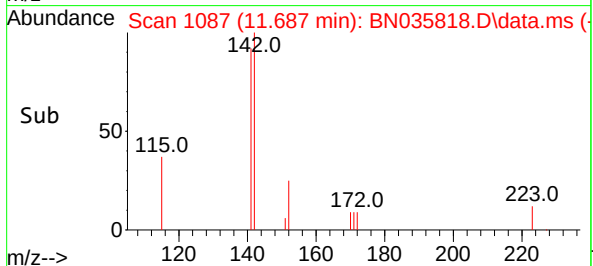
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:142 Resp: 134
Ion Ratio Lower Upper
142 100
141 93.8 72.2 108.4
115 51.1 31.4 47.0

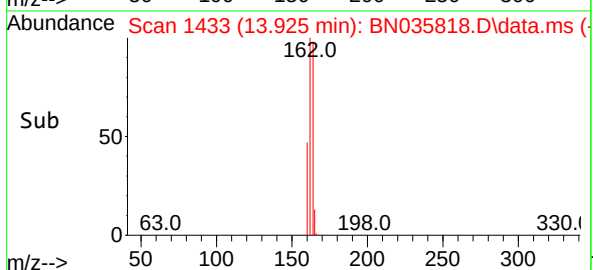
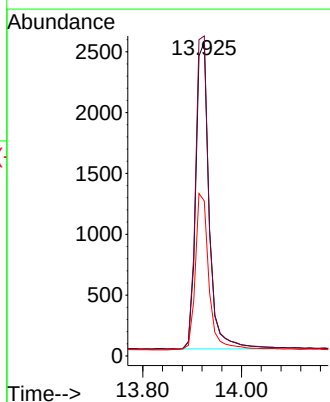
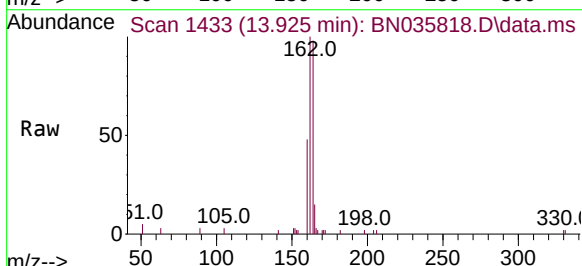
Manual Integrations
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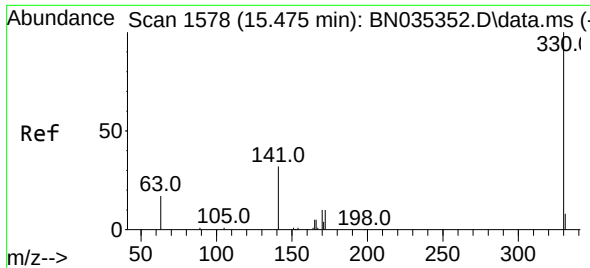
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

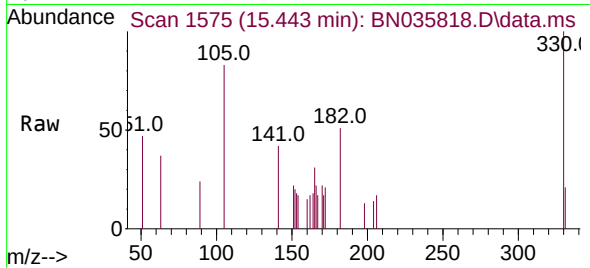
Tgt Ion:164 Resp: 4769
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.4 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

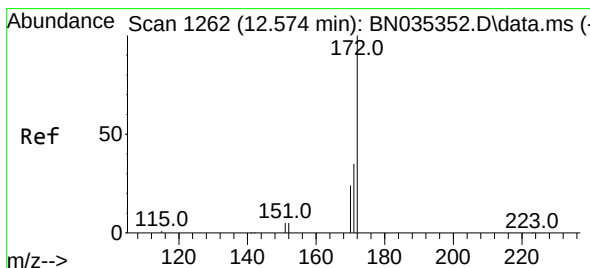
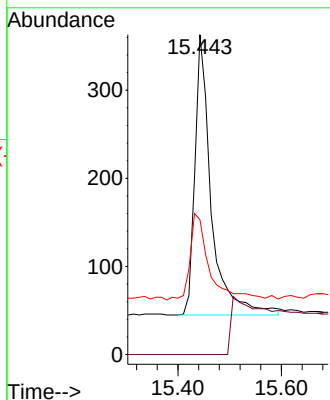
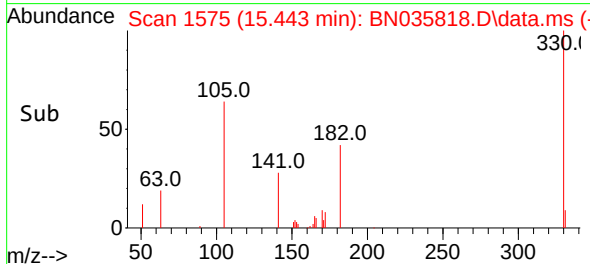
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:330 Resp: 730
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.9 26.6 40.0

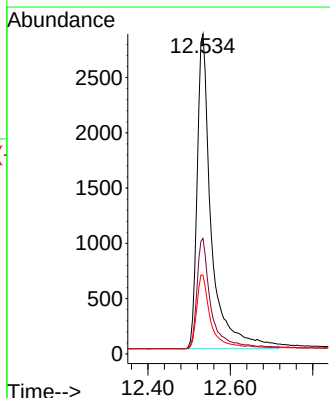
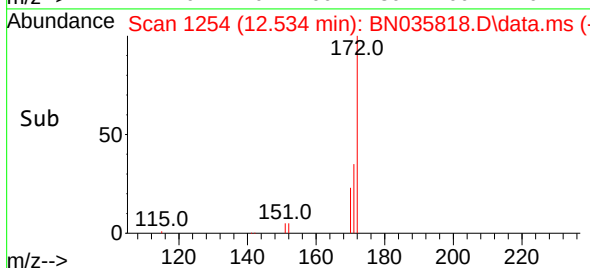
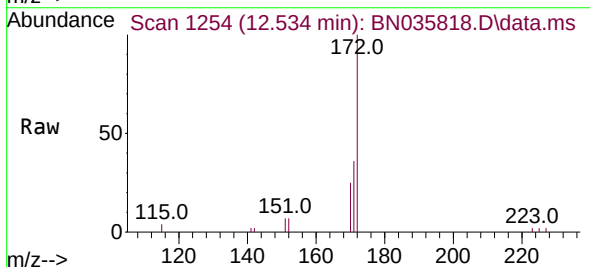
Manual Integrations
APPROVED

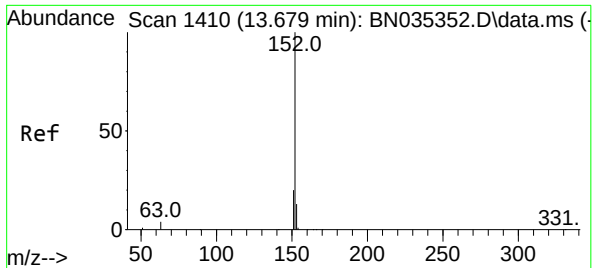
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

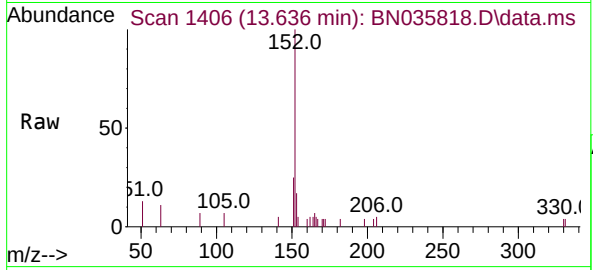
Tgt Ion:172 Resp: 6868
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.4
170 24.6 19.8 29.8





#16
Acenaphthylene
Concen: 0.111 ng
RT: 13.636 min Scan# 1410
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

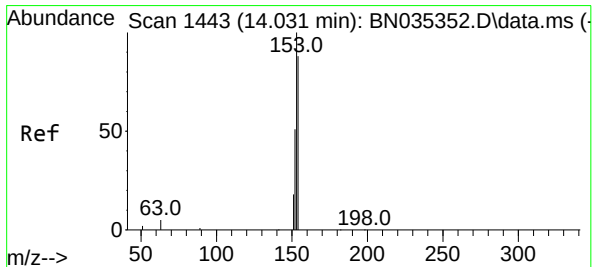
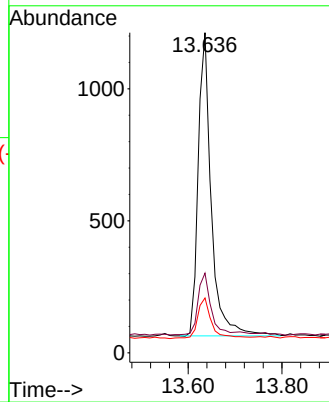
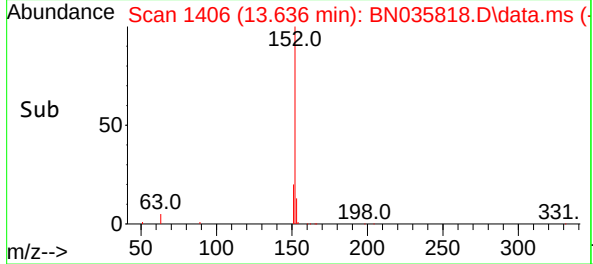
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:152 Resp: 222
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 14.4 10.4 15.6

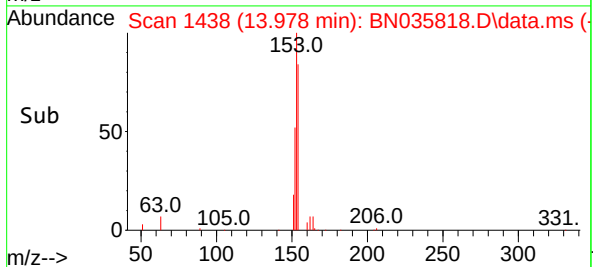
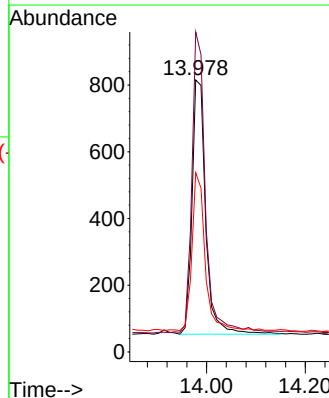
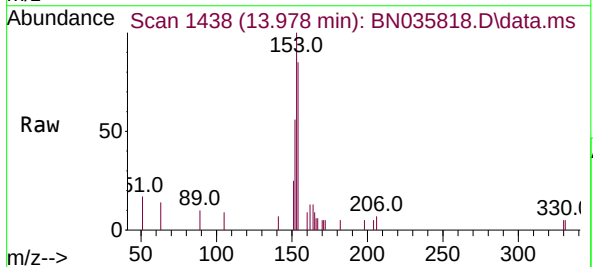
Manual Integrations
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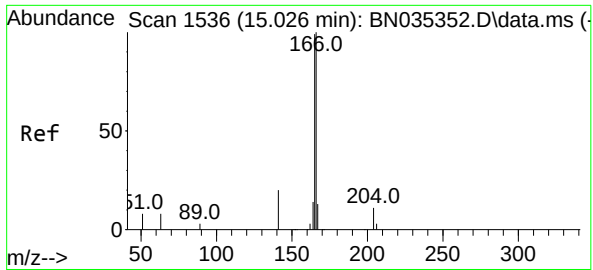
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.110 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

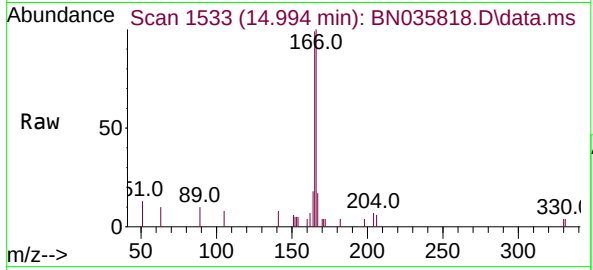
Tgt Ion:154 Resp: 1464
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 58.9 49.0 73.6





#18
Fluorene
Concen: 0.106 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

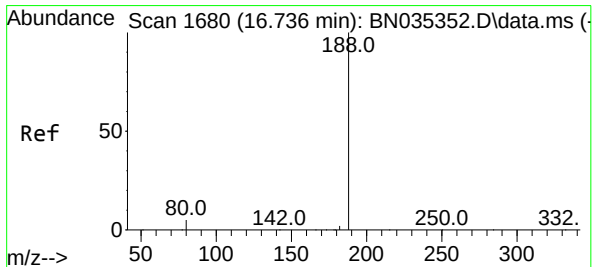
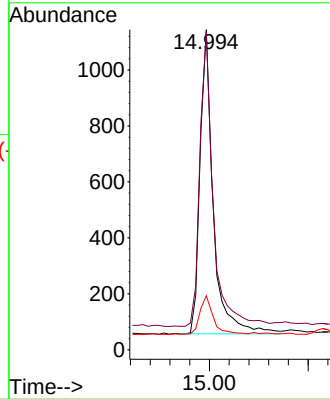
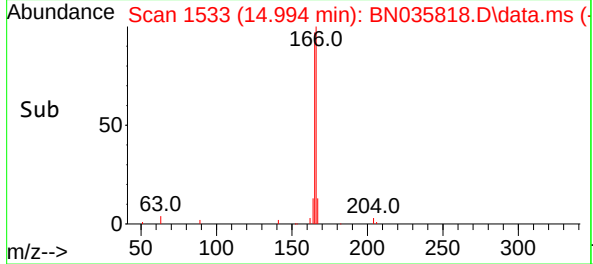
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:166 Resp: 202
Ion Ratio Lower Upper
166 100
165 98.2 79.7 119.5
167 13.4 10.8 16.2

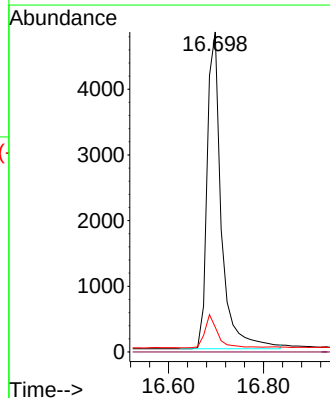
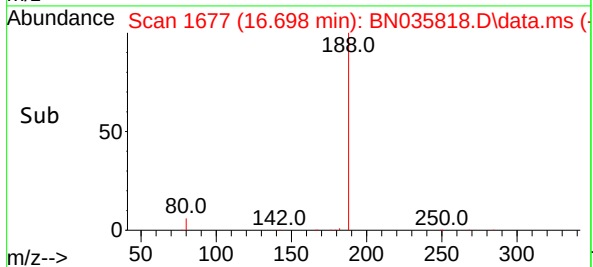
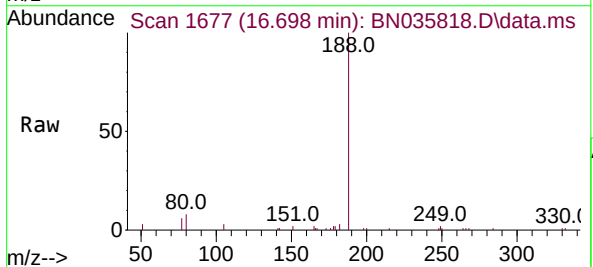
Manual Integrations
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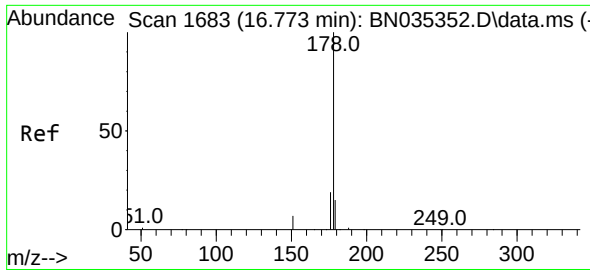
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

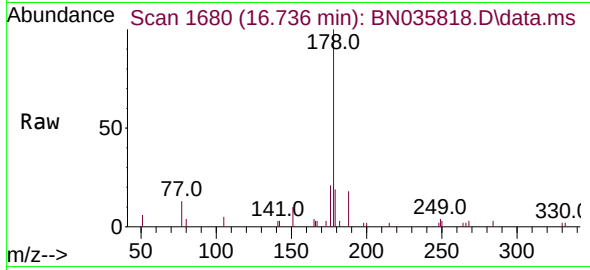
Tgt Ion:188 Resp: 10054
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.7 4.6 6.8#





#25
Phenanthrene
Concen: 0.145 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

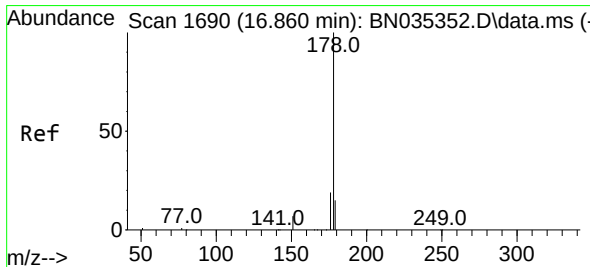
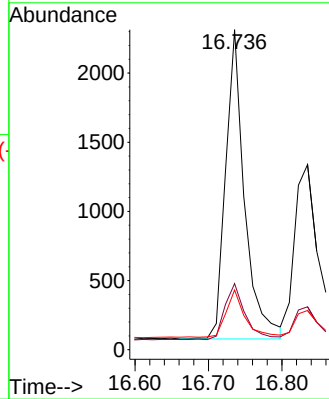
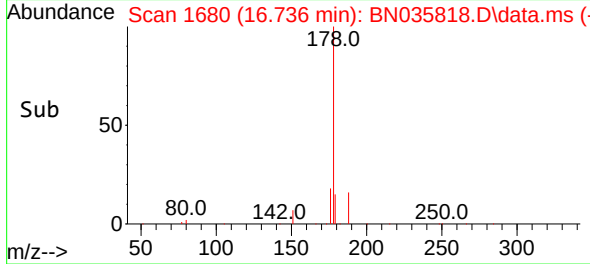
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:178 Resp: 3998
Ion Ratio Lower Upper
178 100
176 20.0 15.4 23.2
179 16.2 12.3 18.5

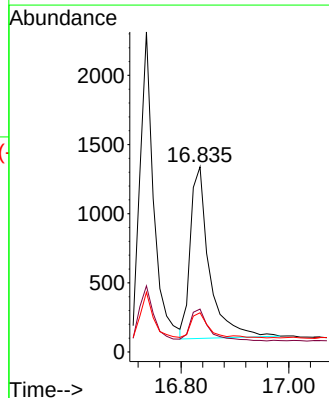
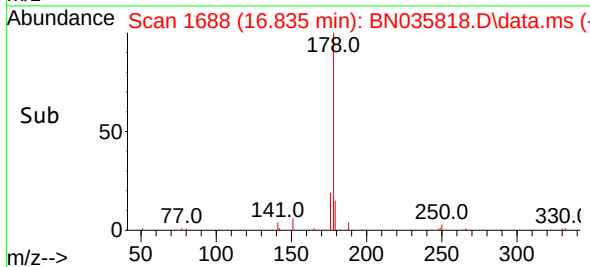
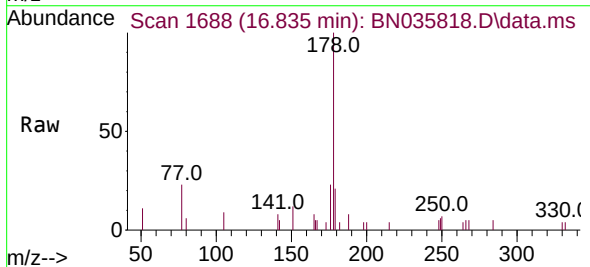
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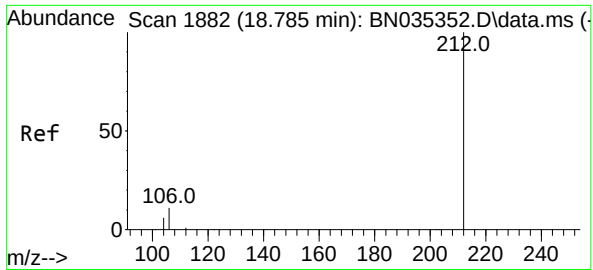
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.122 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

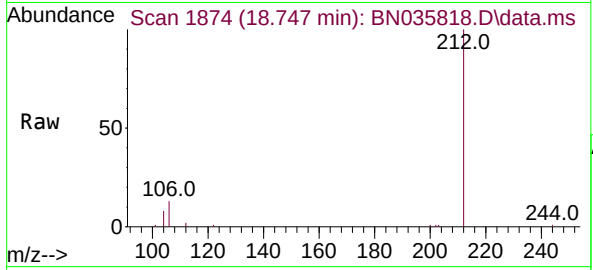
Tgt Ion:178 Resp: 3041
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

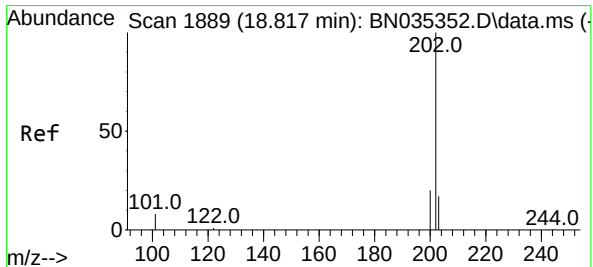
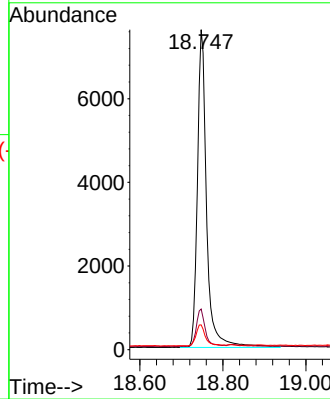
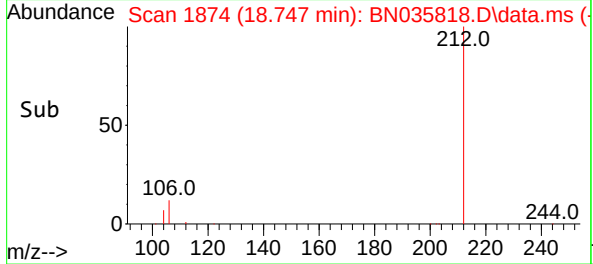
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:212 Resp: 11709
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.8 5.3 7.9

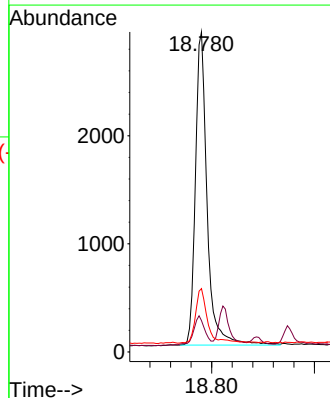
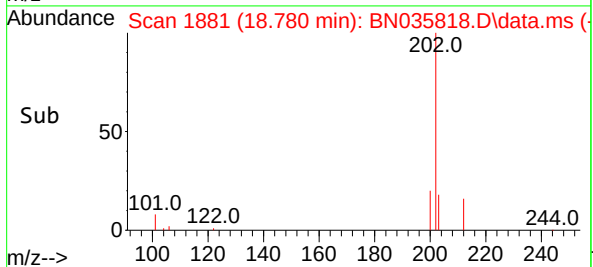
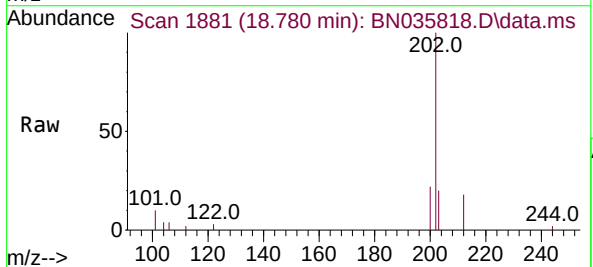
Manual Integrations
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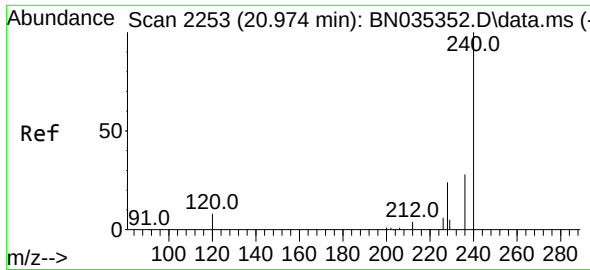
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.124 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:202 Resp: 4605
Ion Ratio Lower Upper
202 100
101 9.4 7.4 11.0
203 18.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218

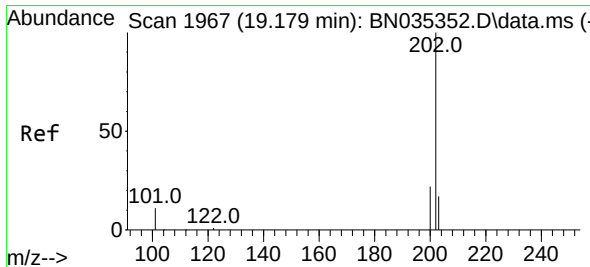
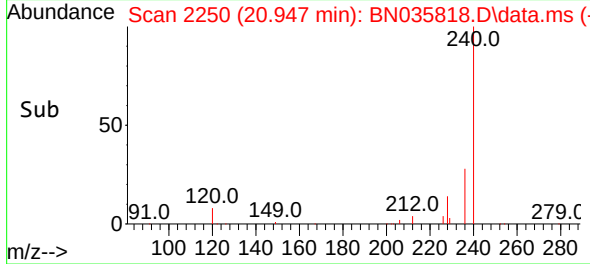
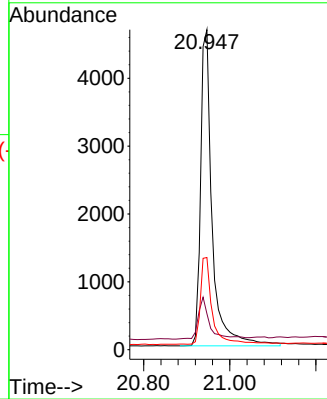
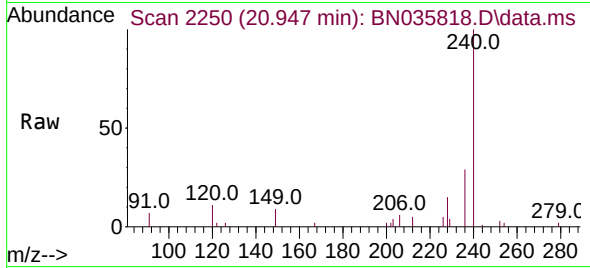
Tgt Ion:240	Resp:	8730
Ion Ratio	Lower	Upper
240	100	
120	11.3	7.9 11.9
236	28.8	22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.148 ng

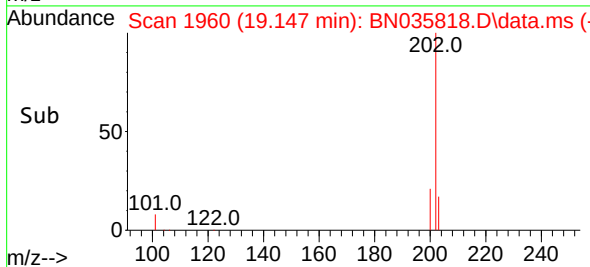
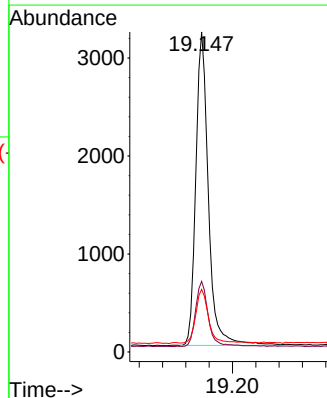
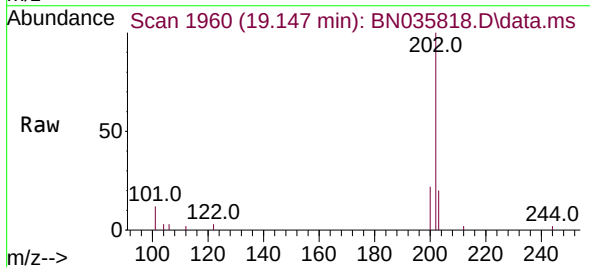
RT: 19.147 min Scan# 1960

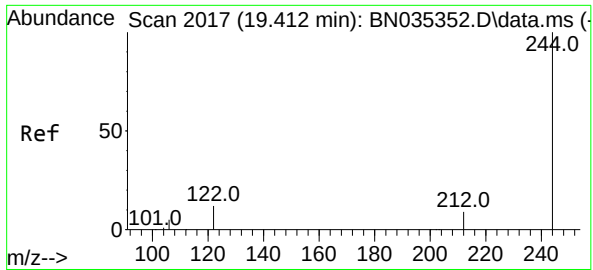
Delta R.T. -0.014 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

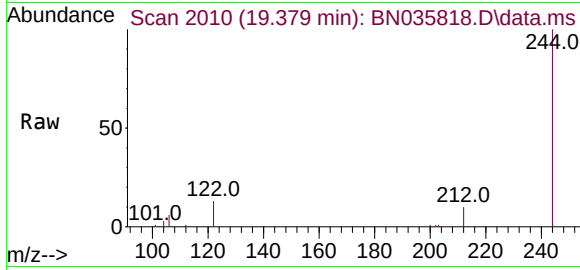
Tgt Ion:202	Resp:	4782
Ion Ratio	Lower	Upper
202	100	
200	21.1	17.0 25.4
203	17.1	14.3 21.5





#31
 Terphenyl-d14
 Concen: 0.577 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

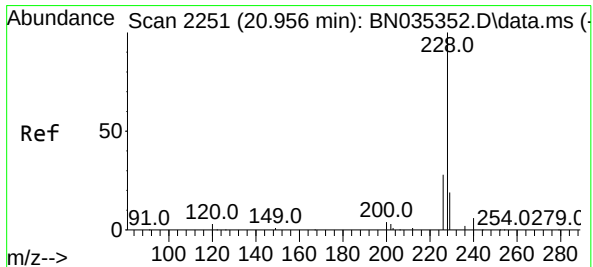
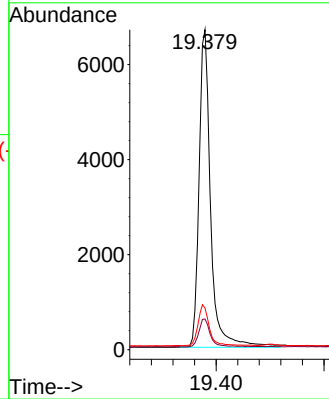
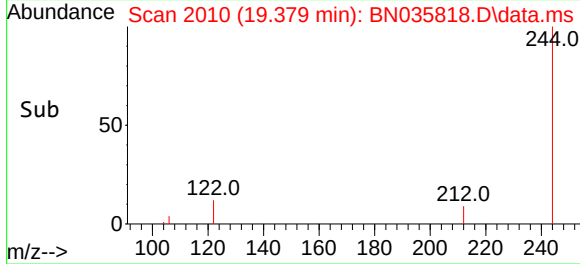
Instrument :
 BNA_N
 ClientSampleId :
 DUP-07-20241218



Tgt Ion:244 Resp: 993
 Ion Ratio Lower Upper
 244 100
 212 9.6 8.1 12.1
 122 13.0 10.3 15.5

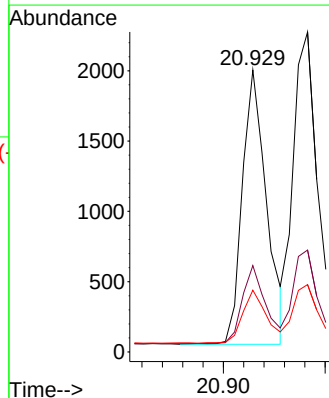
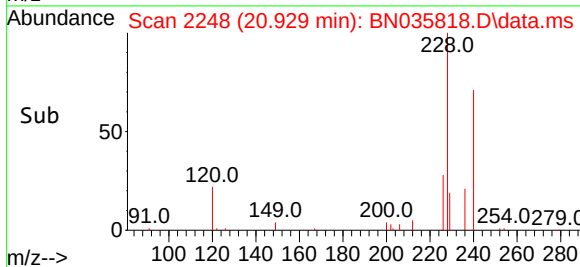
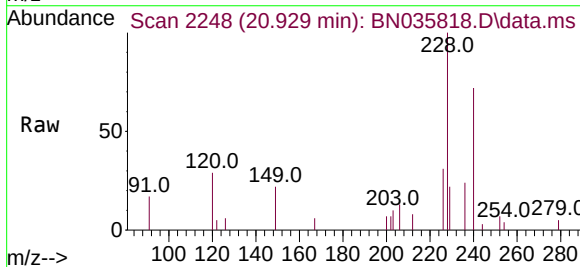
Manual Integrations
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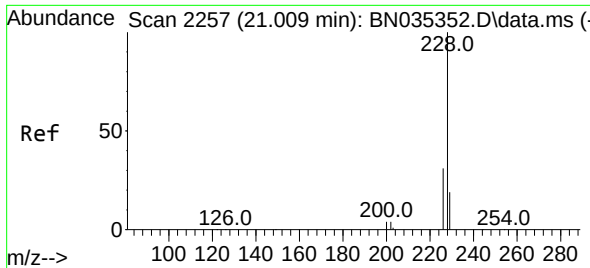
Reviewed By :Yogesh Patel 12/25/2024
 Supervised By :mohammad ahmed 12/26/2024



#32
 Benzo(a)anthracene
 Concen: 0.105 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 3217
 Ion Ratio Lower Upper
 228 100
 226 30.7 22.5 33.7
 229 21.9 15.8 23.8





#33

Chrysene

Concen: 0.132 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218

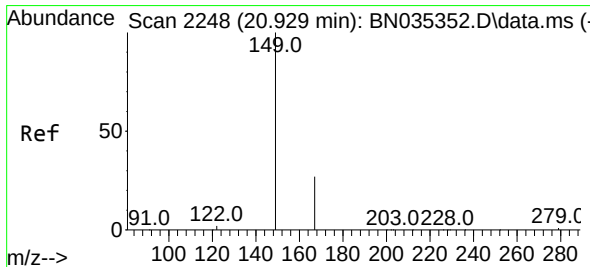
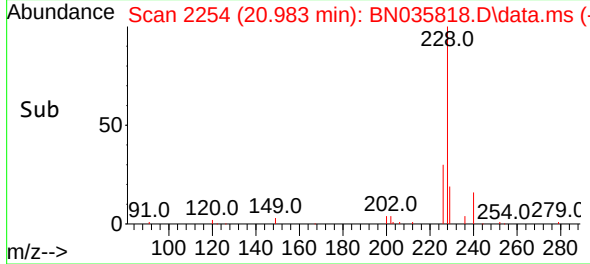
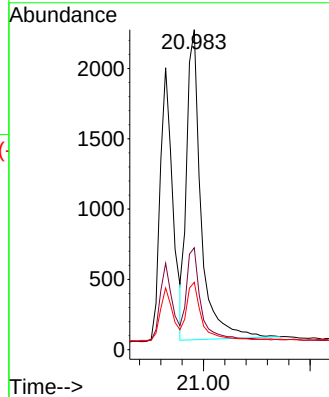
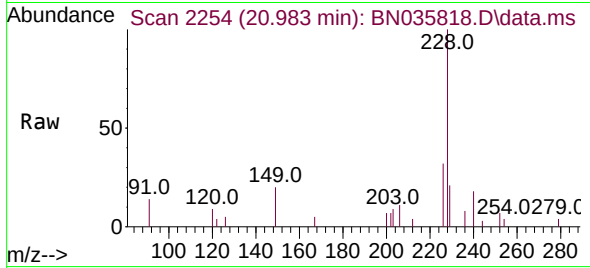
Tgt Ion:	228	Resp:	415
Ion Ratio	Lower	Upper	
228	100		
226	31.9	24.6	37.0
229	21.0	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.092 ng

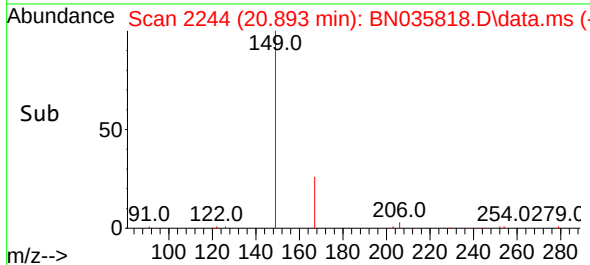
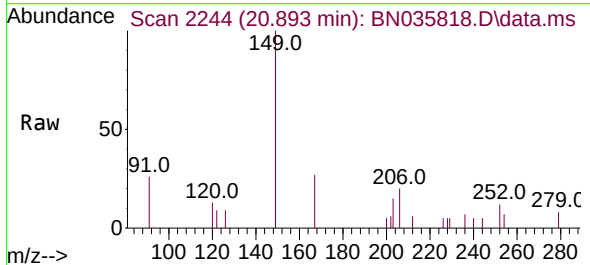
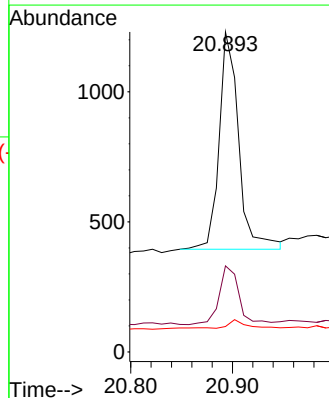
RT: 20.893 min Scan# 2244

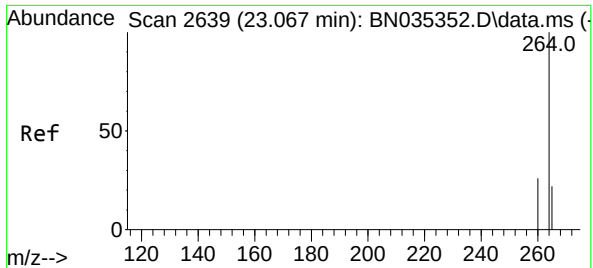
Delta R.T. -0.018 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

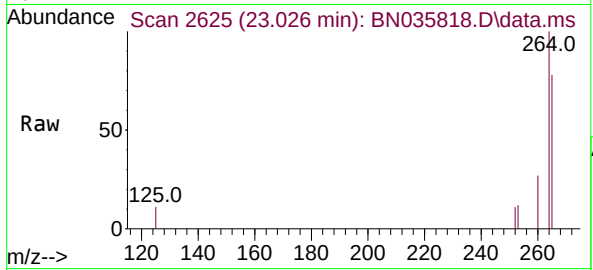
Tgt Ion:	149	Resp:	1111
Ion Ratio	Lower	Upper	
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 20
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

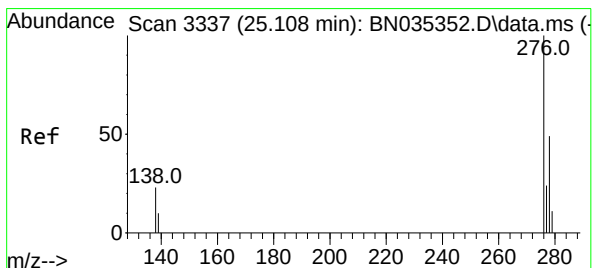
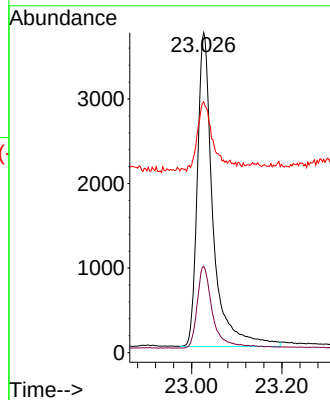
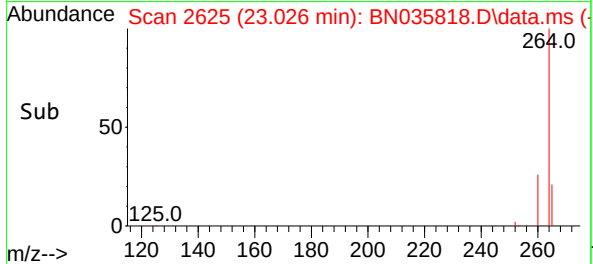
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218



Tgt Ion:264 Resp: 894
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 78.4 40.2 60.4

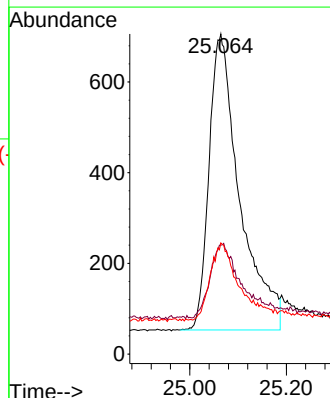
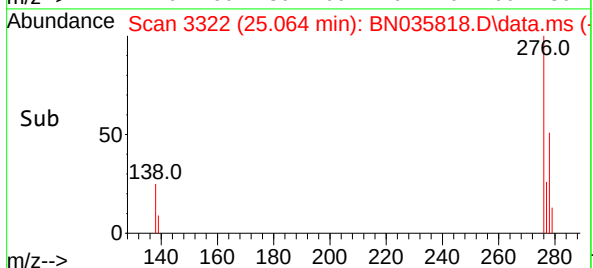
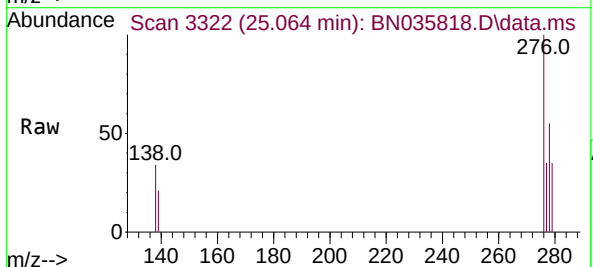
Manual Integrations
APPROVED

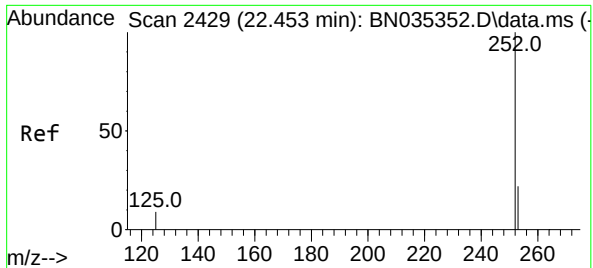
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.082 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 2885
Ion Ratio Lower Upper
276 100
138 24.9 19.4 29.0
277 22.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.180 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035818.D

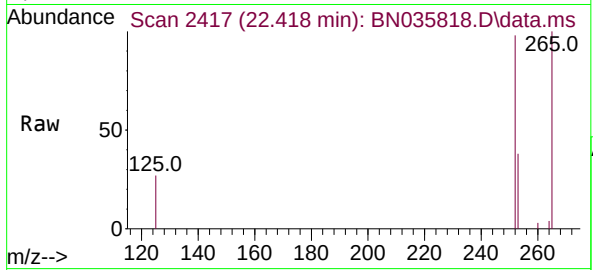
Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218



Tgt Ion:252 Resp: 5898

Ion Ratio Lower Upper

252 100

253 38.9 19.6 29.4#

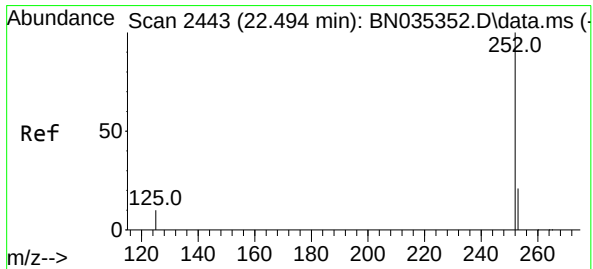
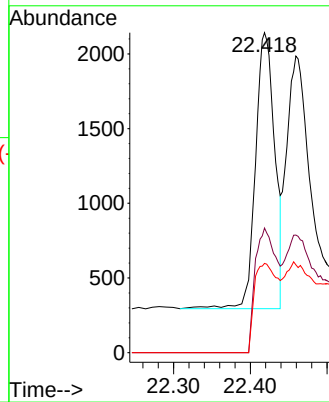
125 27.9 9.6 14.4#

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

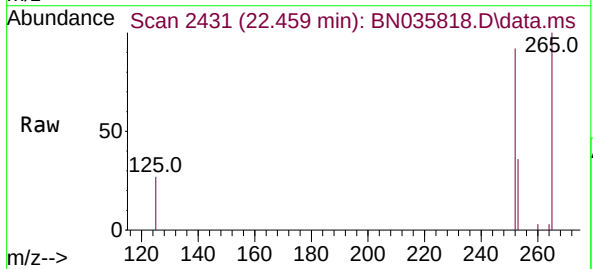
Concen: 0.110 ng m

RT: 22.459 min Scan# 2431

Delta R.T. -0.012 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08



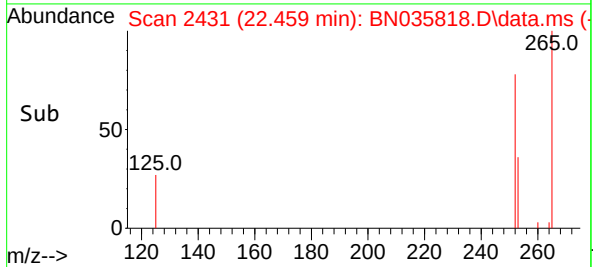
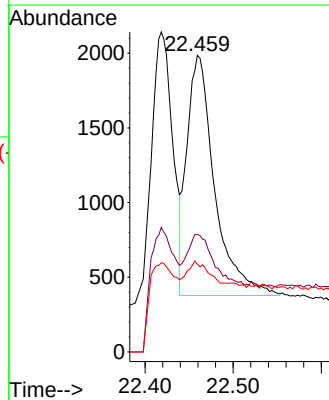
Tgt Ion:252 Resp: 3531

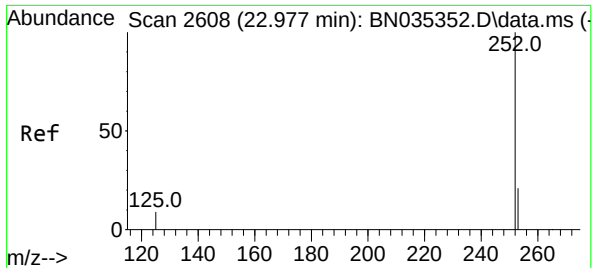
Ion Ratio Lower Upper

252 100

253 39.6 19.5 29.3#

125 29.6 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.100 ng

RT: 22.942 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218

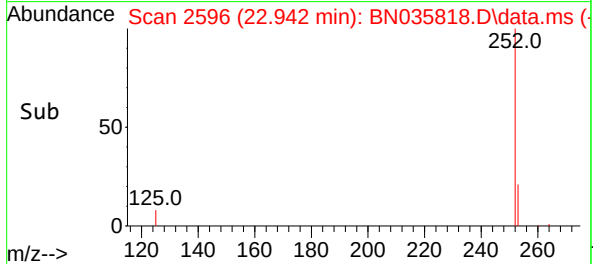
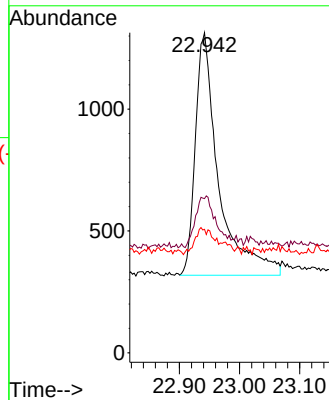
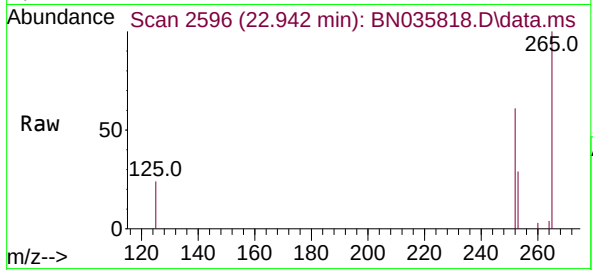
Tgt Ion:	252	Resp:	2680
Ion Ratio	Lower	Upper	
252	100		
253	48.2	20.2	30.4#
125	38.6	10.9	16.3#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.076 ng

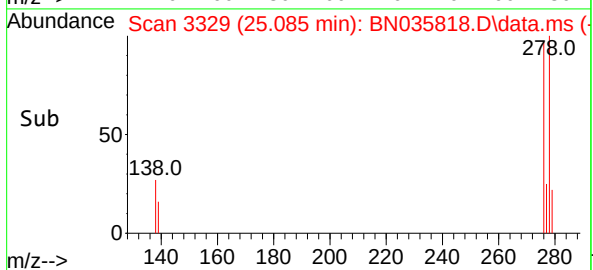
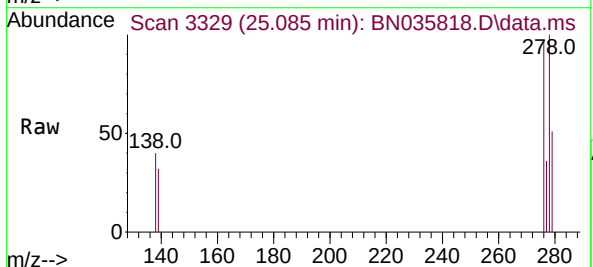
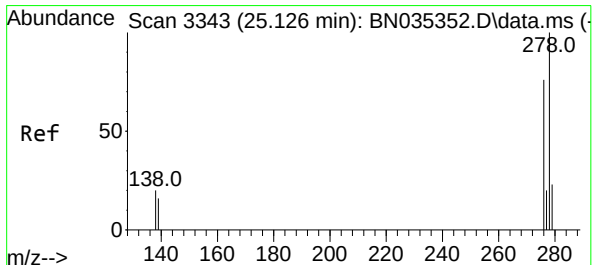
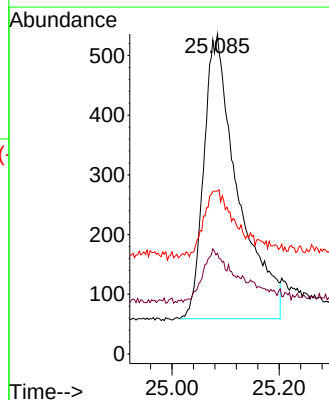
RT: 25.085 min Scan# 3329

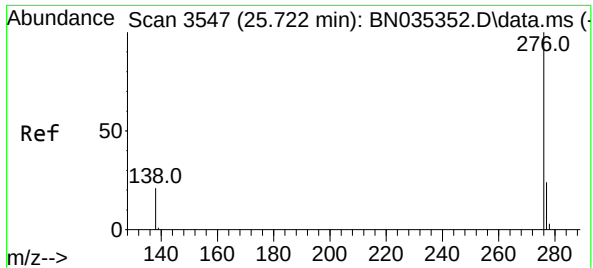
Delta R.T. 0.003 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Tgt Ion:	278	Resp:	2103
Ion Ratio	Lower	Upper	
278	100		
139	31.5	14.2	21.4#
279	50.9	20.5	30.7#





#41

Benzo(g,h,i)perylene

Concen: 0.087 ng

RT: 25.667 min Scan# 3

Delta R.T. -0.012 min

Lab File: BN035818.D

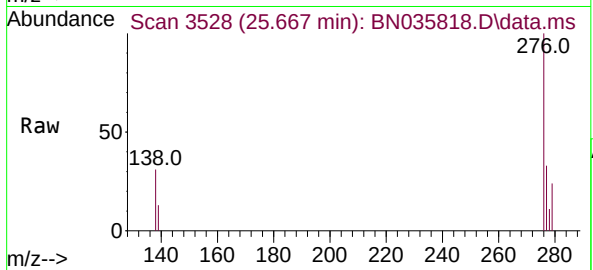
Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218



Tgt Ion:276 Resp: 2510

Ion Ratio Lower Upper

276 100

277 32.5 19.9 29.9

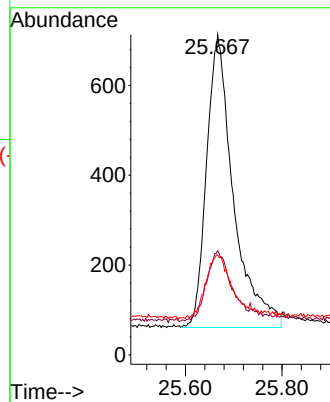
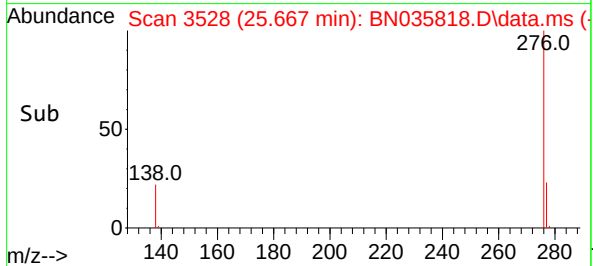
138 31.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT174I1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-06	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
BN035819.D	1	12/23/24 13:29	12/24/24 13:44	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.80		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	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3690	7.264				
1146-65-2	Naphthalene-d8	8470	10.009				
15067-26-2	Acenaphthene-d10	5270	13.924				
1517-22-2	Phenanthrene-d10	9420	16.698				
1719-03-5	Chrysene-d12	7350	20.947				
1520-96-3	Perylene-d12	7210	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\BN122324\
 Data File : BN035819.D
 Acq On : 24 Dec 2024 13:44
 Operator : RC/JU
 Sample : P5376-06
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT17411-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:18:17 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	3689	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8470	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5265	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9421	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7347	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7210	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	1128	0.122	ng	-0.01
5) Phenol-d6	6.484	99	578	0.052	ng	0.00
8) Nitrobenzene-d5	8.407	82	2260m	0.437	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4896	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	747	0.200	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	8403	0.422	ng	0.00
27) Fluoranthene-d10	18.752	212	11207	0.420	ng	0.00
31) Terphenyl-d14	19.379	244	8308	0.573	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	2834	0.804	ng	99
9) Naphthalene	10.052	128	2295	0.103	ng	# 90
12) 2-Methylnaphthalene	11.691	142	1434	0.090	ng	# 92
16) Acenaphthylene	13.636	152	2575	0.116	ng	99
17) Acenaphthene	13.988	154	1536	0.105	ng	96
18) Fluorene	14.993	166	1937	0.092	ng	99
25) Phenanthrene	16.735	178	3558	0.137	ng	99
26) Anthracene	16.835	178	2627	0.112	ng	99
28) Fluoranthene	18.780	202	3772	0.108	ng	99
30) Pyrene	19.147	202	3996	0.147	ng	100
32) Benzo(a)anthracene	20.929	228	2328	0.091	ng	95
33) Chrysene	20.982	228	3355	0.127	ng	96
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.035	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.067	276	2032	0.072	ng	# 86
37) Benzo(b)fluoranthene	22.421	252	3012	0.114	ng	# 58
38) Benzo(k)fluoranthene	22.462	252	2589	0.100	ng	# 56
39) Benzo(a)pyrene	22.944	252	1842	0.085	ng	# 32
40) Dibenzo(a,h)anthracene	25.090	278	1565	0.070	ng	# 43
41) Benzo(g,h,i)perylene	25.672	276	1852	0.080	ng	# 78

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

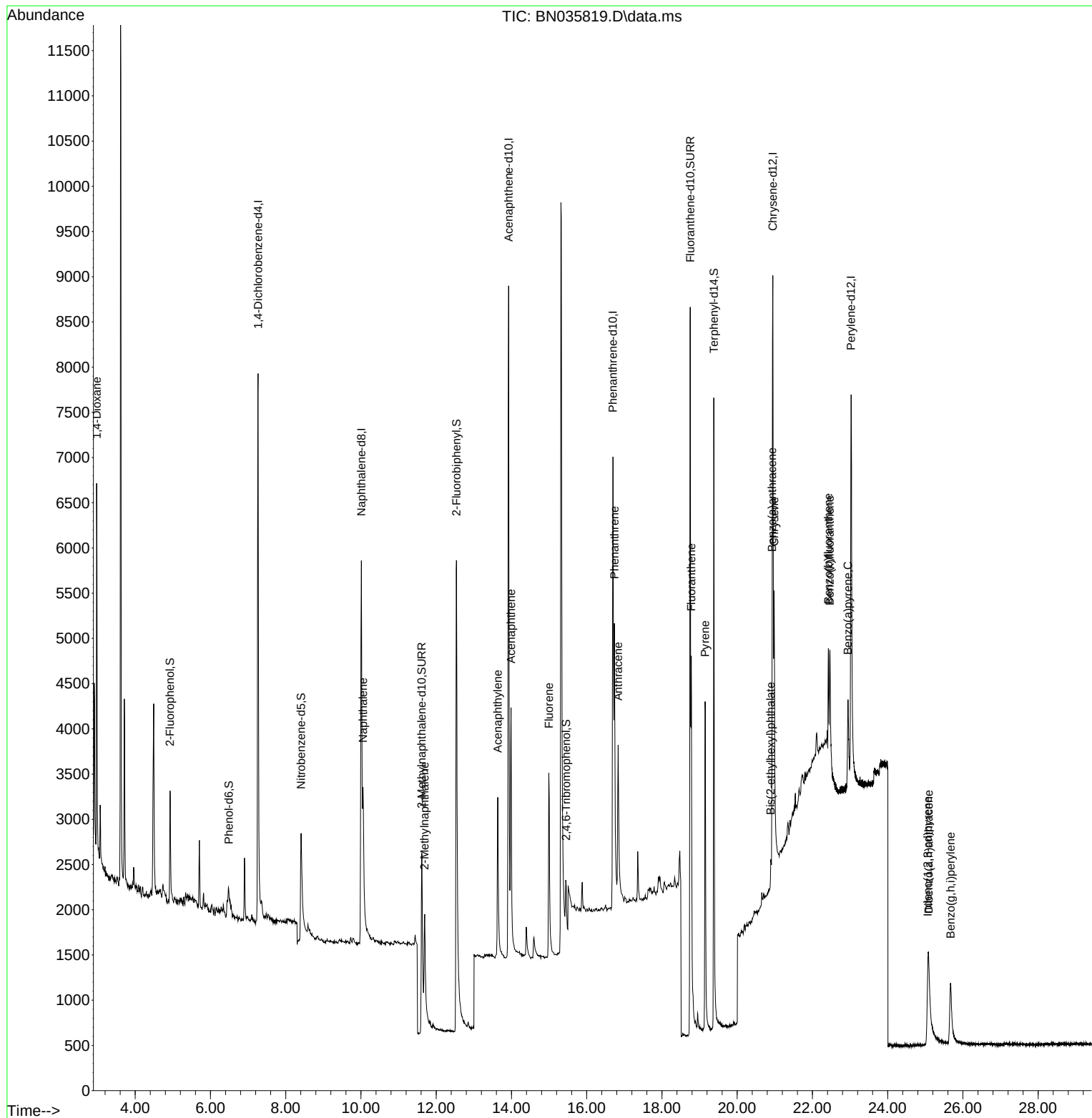
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

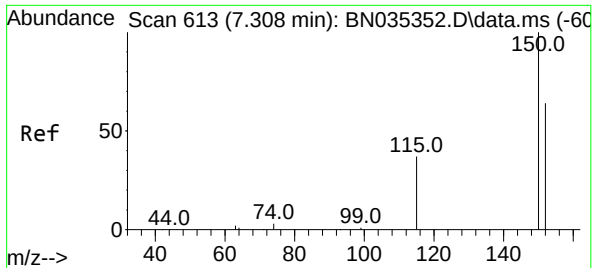
Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

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

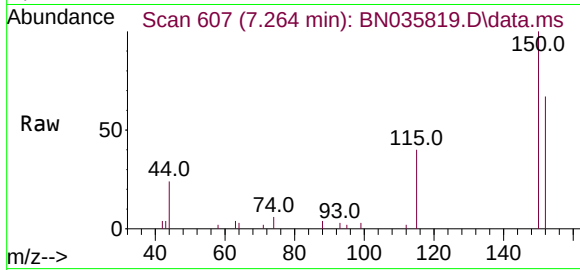
Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

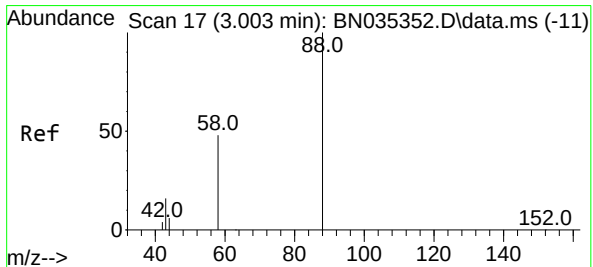
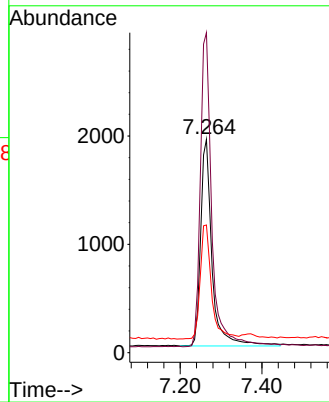
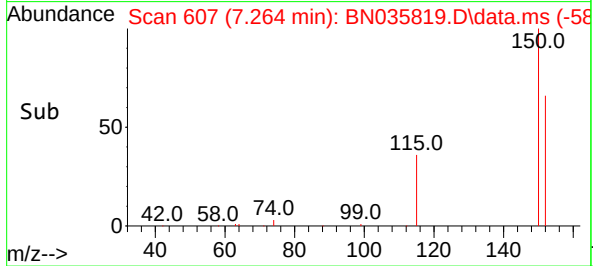
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:152 Resp: 3689
Ion Ratio Lower Upper
152 100
150 150.0 124.0 186.0
115 59.8 49.6 74.4

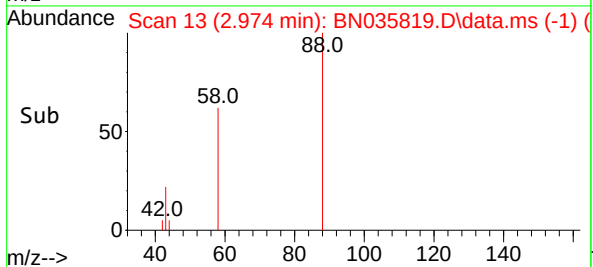
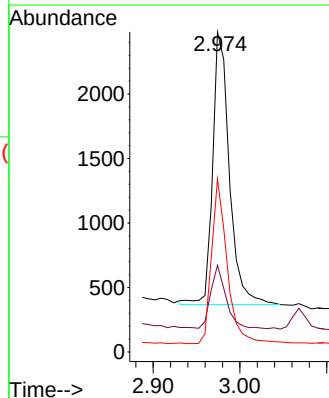
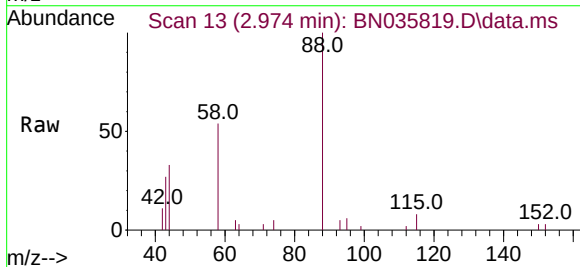
Manual Integrations
APPROVED

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

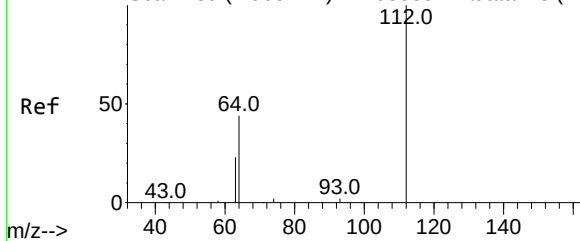


#2
1,4-Dioxane
Concen: 0.804 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 88 Resp: 2834
Ion Ratio Lower Upper
88 100
43 21.2 17.2 25.8
58 56.3 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.122 ng

RT: 4.924 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218

Tgt Ion:112 Resp: 112

Ion Ratio Lower Upper

112 100

64 53.3 39.8 59.8

63 26.3 21.0 31.6

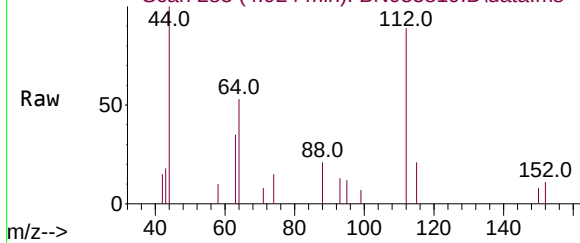
Manual Integrations

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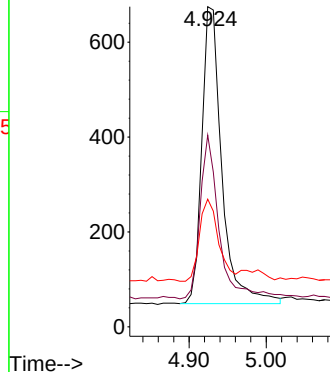
Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024

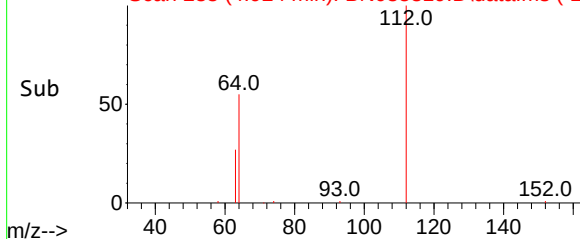
Abundance Scan 283 (4.924 min): BN035819.D\data.ms



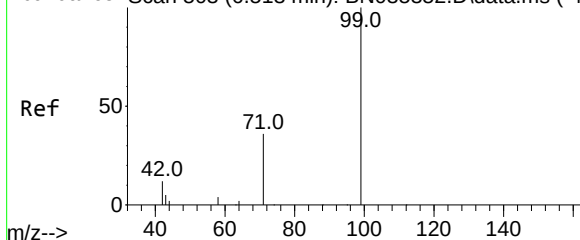
Abundance



Abundance Scan 283 (4.924 min): BN035819.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.052 ng

RT: 6.484 min Scan# 499

Delta R.T. -0.008 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

Tgt Ion: 99 Resp: 578

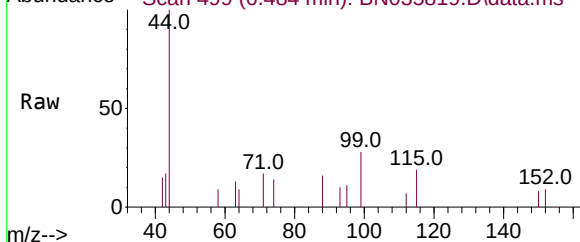
Ion Ratio Lower Upper

99 100

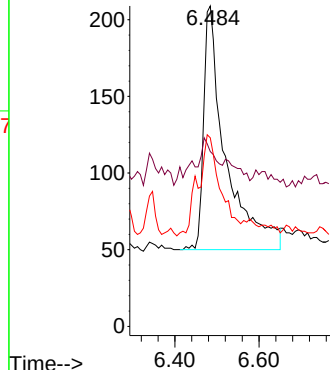
42 5.5 11.4 17.2#

71 42.2 29.3 43.9

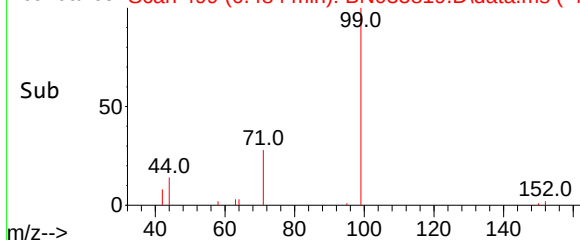
Abundance Scan 499 (6.484 min): BN035819.D\data.ms

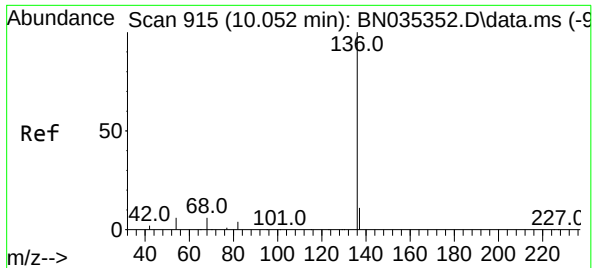


Abundance



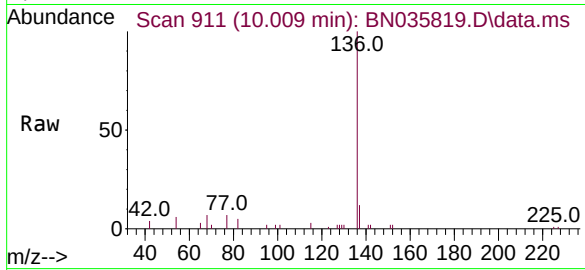
Abundance Scan 499 (6.484 min): BN035819.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

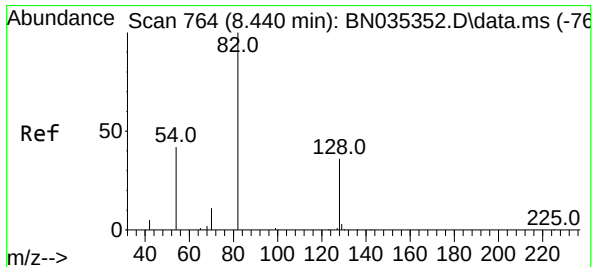
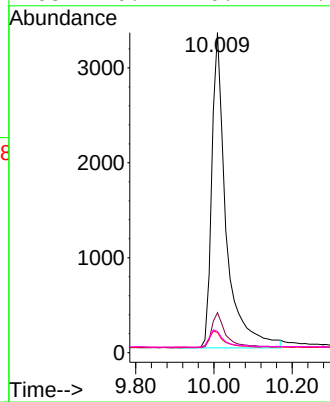
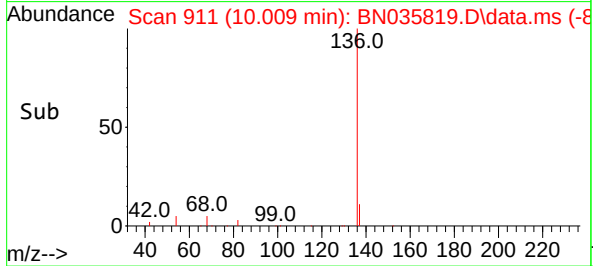
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion: 136 Resp: 8470
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 6.4 6.1 9.1
68 6.7 6.4 9.6

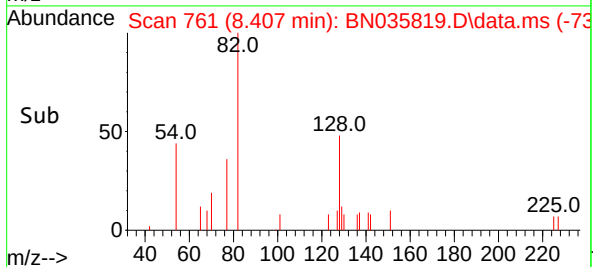
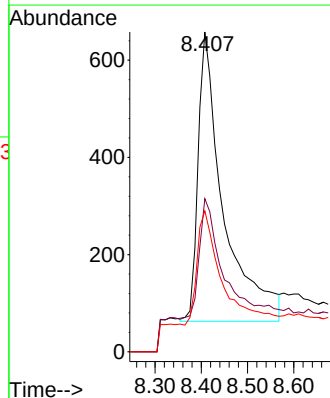
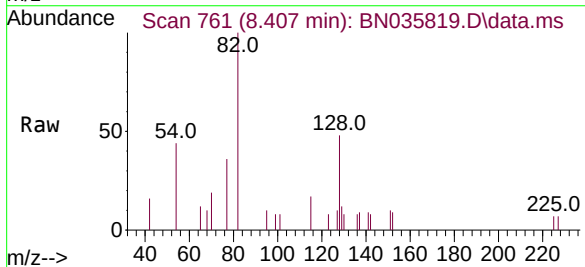
Manual Integrations
APPROVED

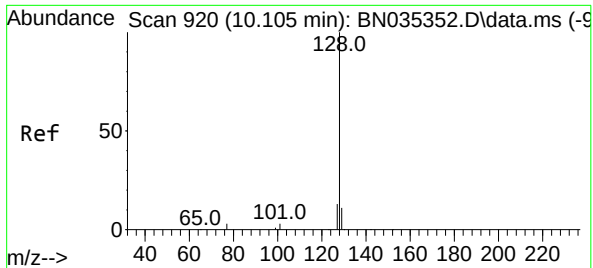
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.437 ng m
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

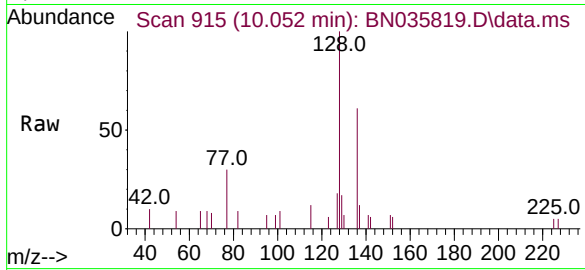
Tgt Ion: 82 Resp: 2260
Ion Ratio Lower Upper
82 100
128 47.9 33.4 50.0
54 44.1 36.7 55.1





#9
Naphthalene
Concen: 0.103 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

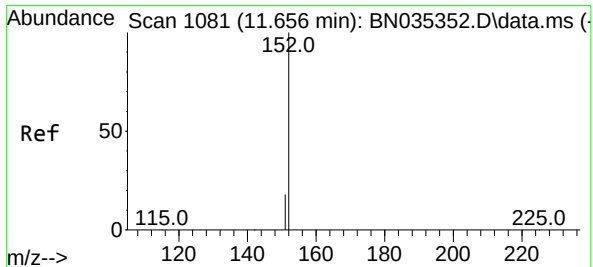
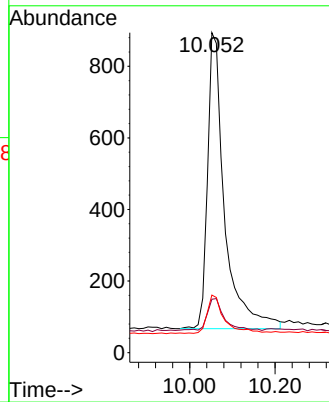
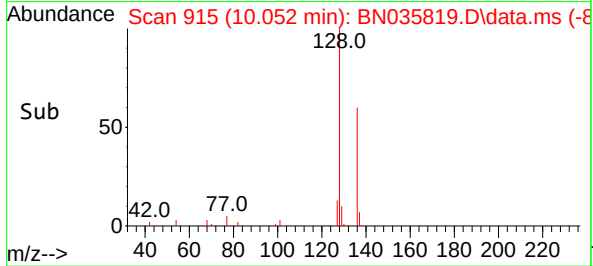
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:128 Resp: 2295
Ion Ratio Lower Upper
128 100
129 16.7 9.8 14.6
127 18.0 11.4 17.2

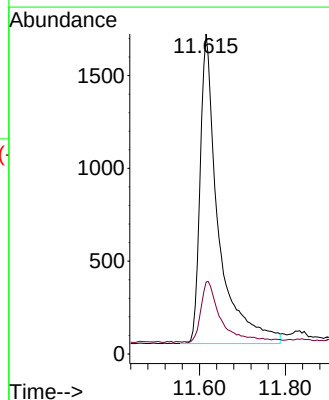
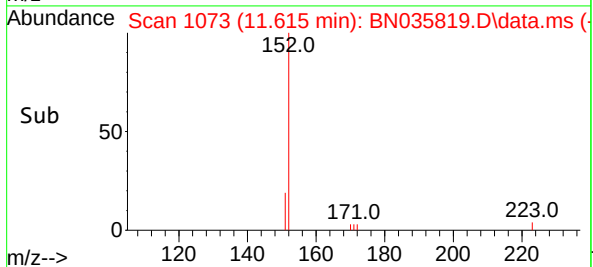
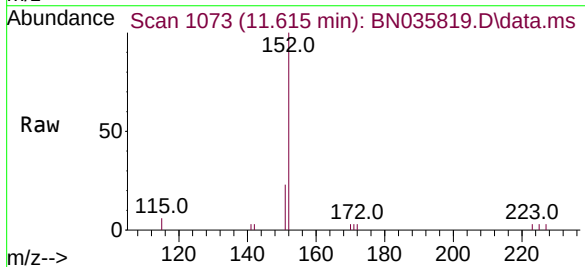
Manual Integrations
APPROVED

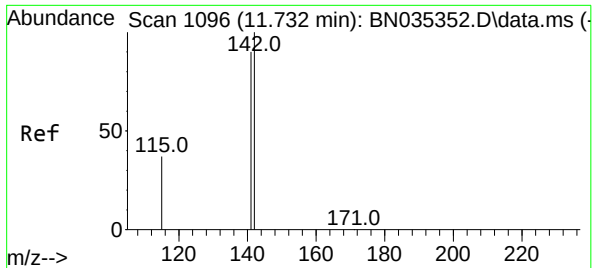
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

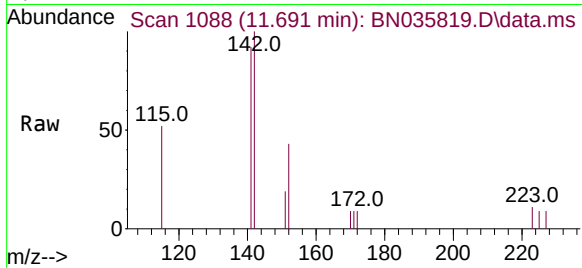
Tgt Ion:152 Resp: 4896
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0





#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.691 min Scan# 1096
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

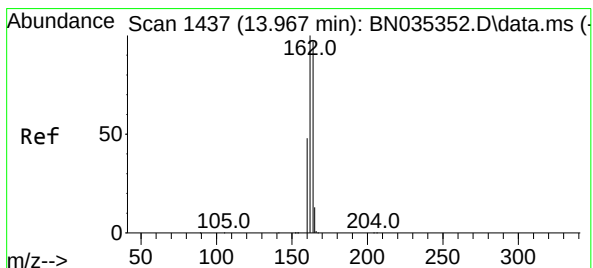
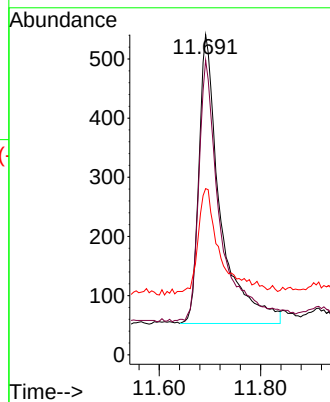
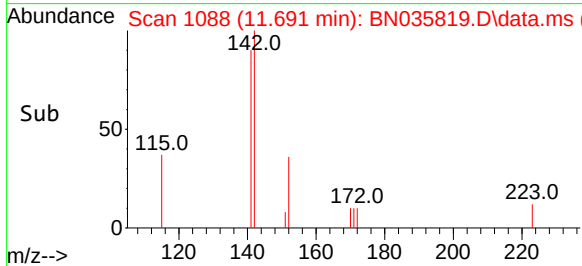
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:142 Resp: 1434
Ion Ratio Lower Upper
142 100
141 92.1 72.2 108.4
115 51.9 31.4 47.0

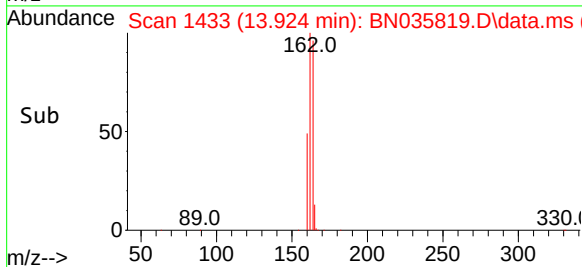
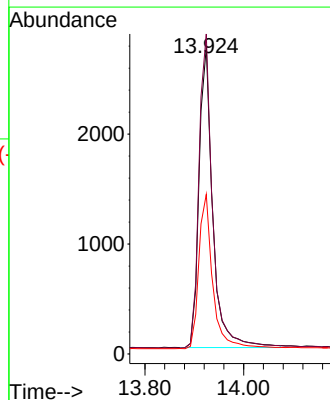
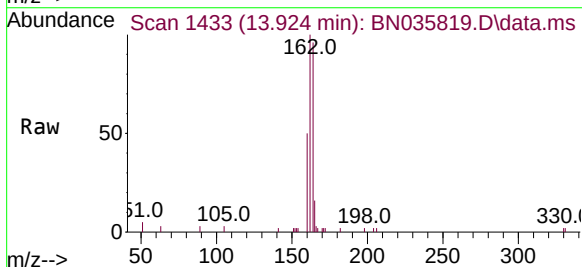
Manual Integrations
APPROVED

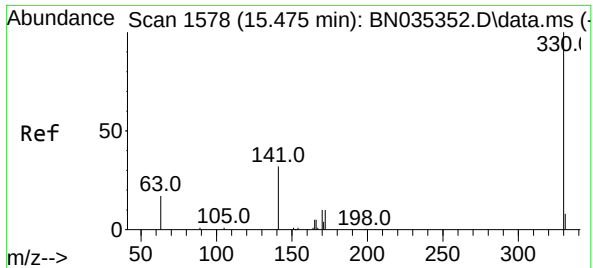
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

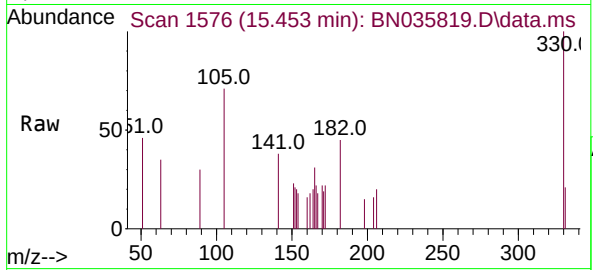
Tgt Ion:164 Resp: 5265
Ion Ratio Lower Upper
164 100
162 104.3 82.2 123.2
160 52.0 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.453 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

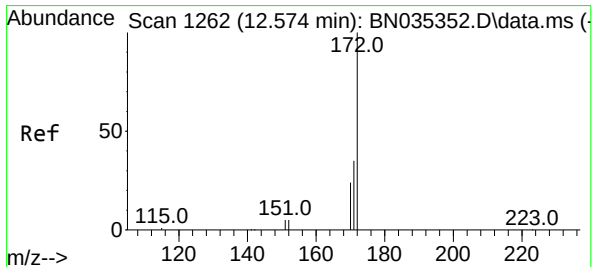
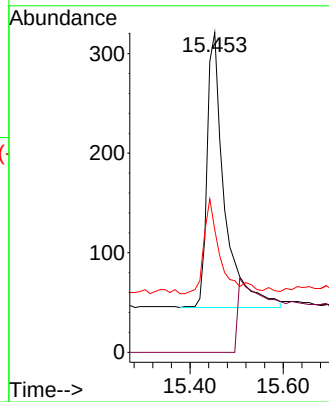
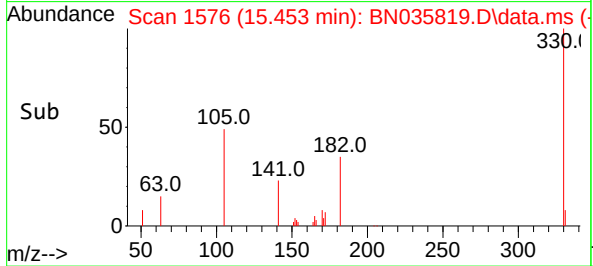
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion: 330 Resp: 74
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.3 26.6 40.0

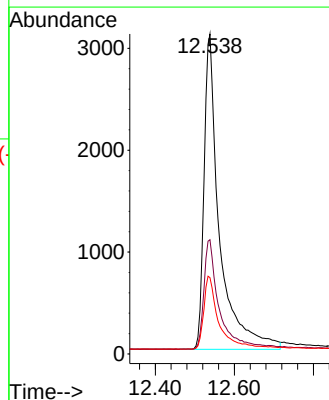
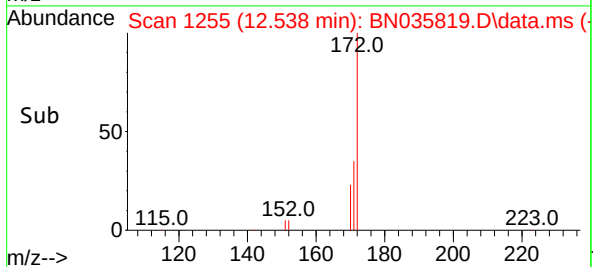
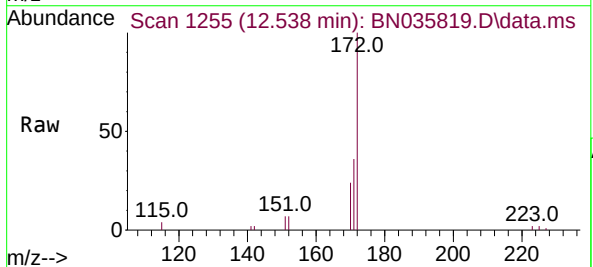
Manual Integrations
APPROVED

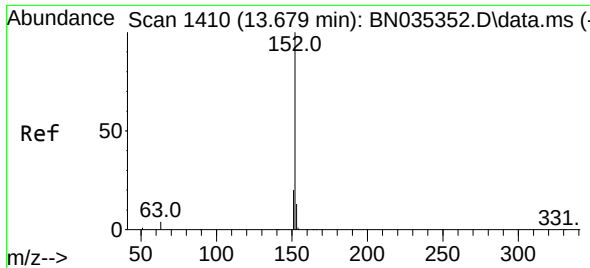
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

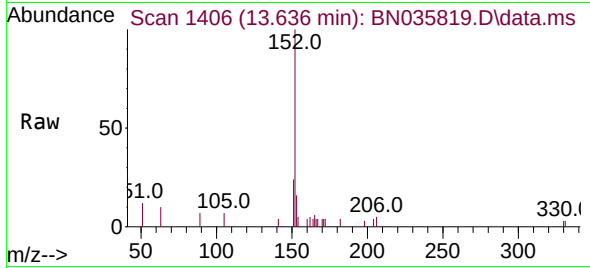
Tgt Ion: 172 Resp: 8403
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 23.8 19.8 29.8





#16
Acenaphthylene
Concen: 0.116 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

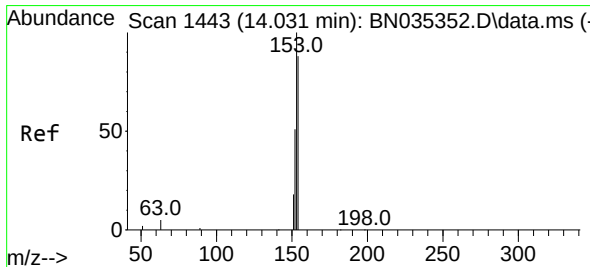
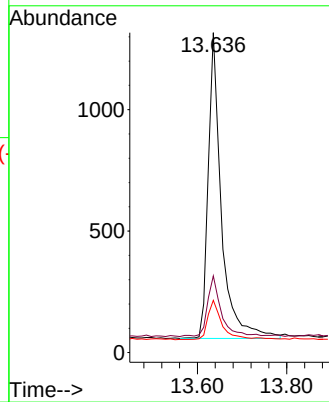
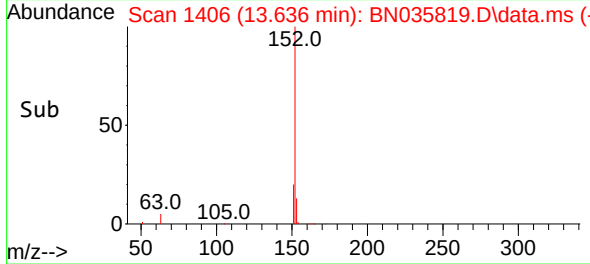
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:152 Resp: 2579
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.2
153 13.3 10.4 15.6

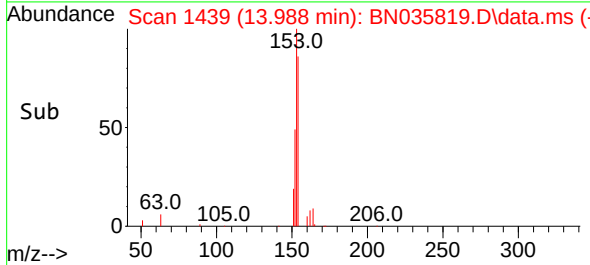
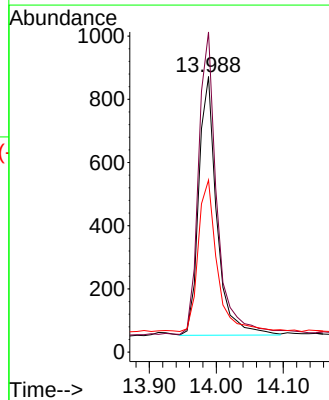
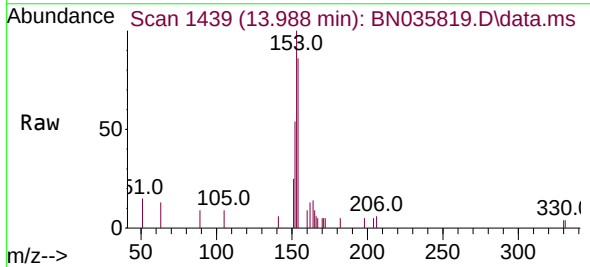
Manual Integrations
APPROVED

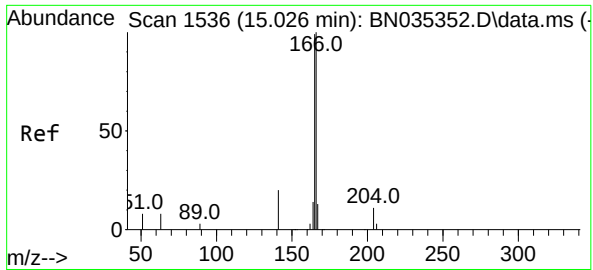
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.105 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

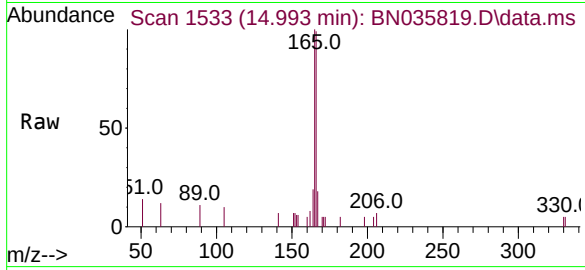
Tgt Ion:154 Resp: 1536
Ion Ratio Lower Upper
154 100
153 122.4 92.6 139.0
152 61.7 49.0 73.6





#18
Fluorene
Concen: 0.092 ng
RT: 14.993 min Scan# 1536
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

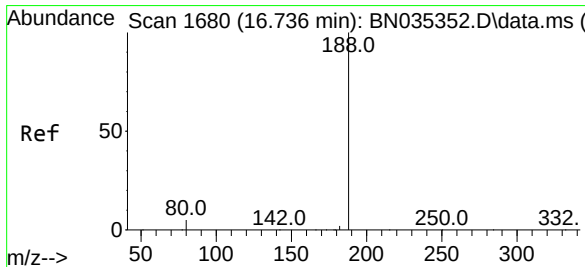
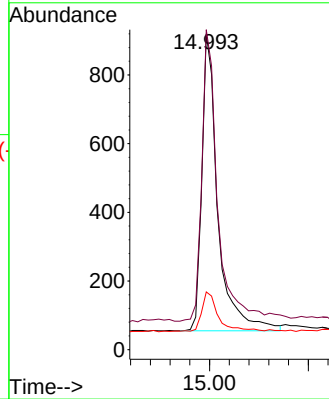
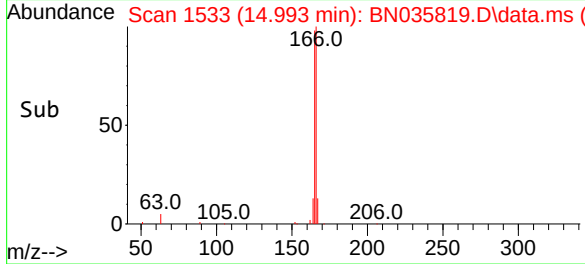
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:166 Resp: 193
Ion Ratio Lower Upper
166 100
165 98.9 79.7 119.5
167 13.8 10.8 16.2

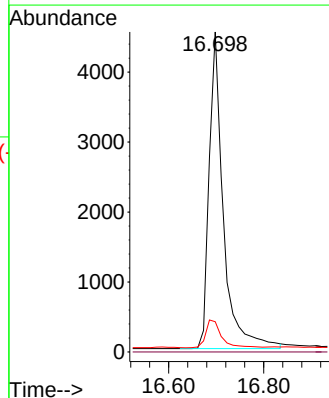
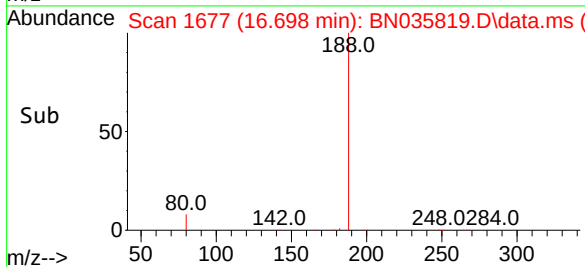
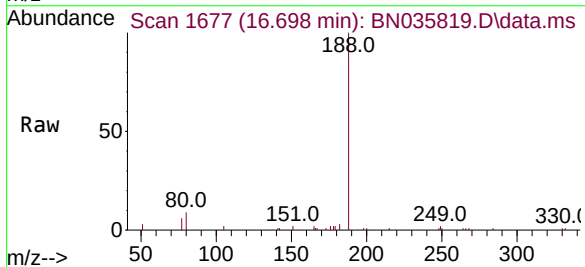
Manual Integrations
APPROVED

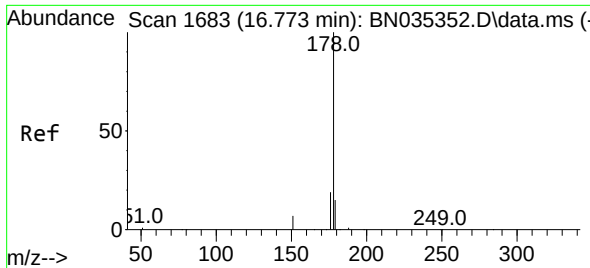
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:188 Resp: 9421
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.4 4.6 6.8





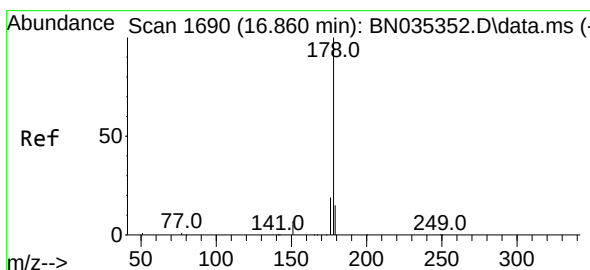
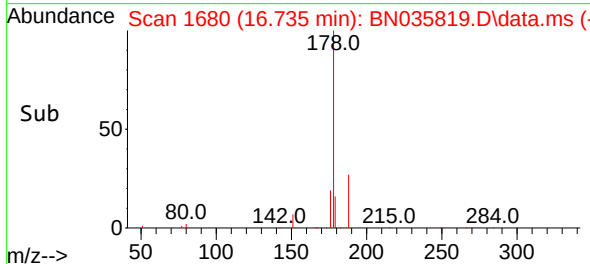
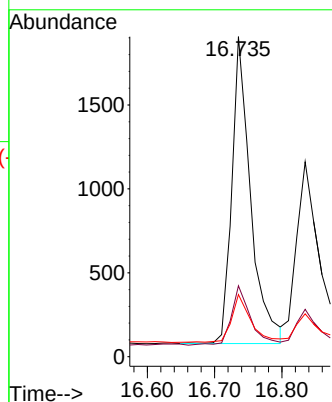
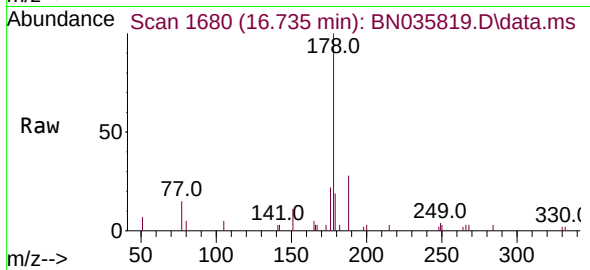
#25
Phenanthrene
Concen: 0.137 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

Tgt Ion:178 Resp: 3558
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 16.1 12.3 18.5

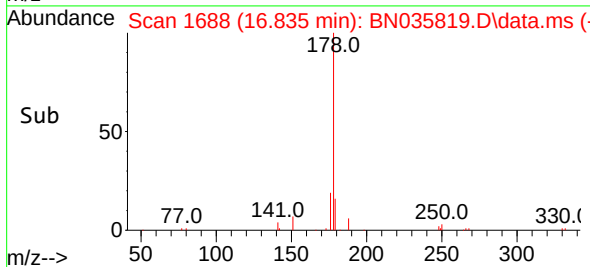
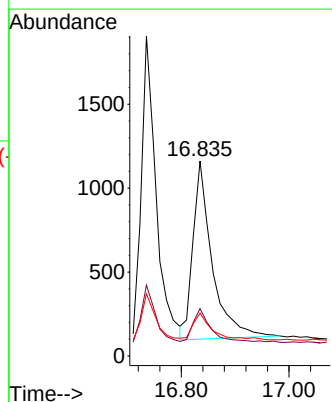
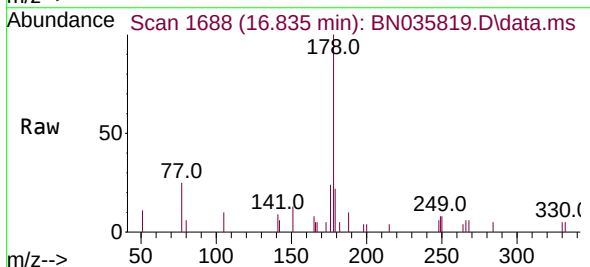
Manual Integrations
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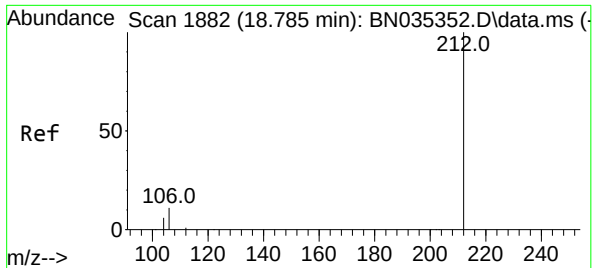
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.112 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 2627
Ion Ratio Lower Upper
178 100
176 19.8 15.0 22.6
179 15.8 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.420 ng

RT: 18.752 min Scan# 1875

Delta R.T. -0.010 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218

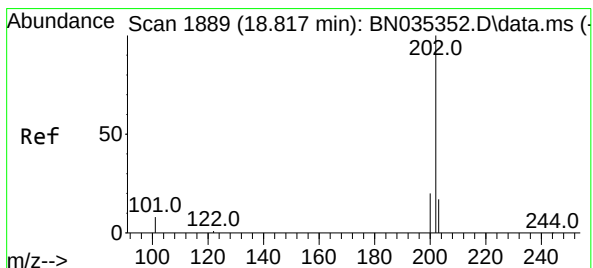
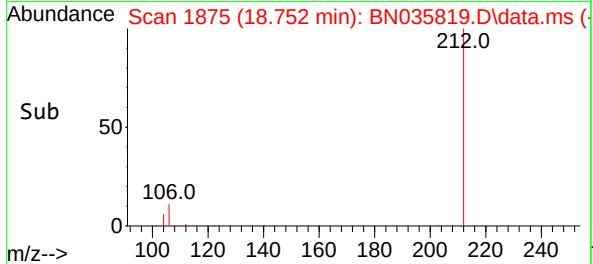
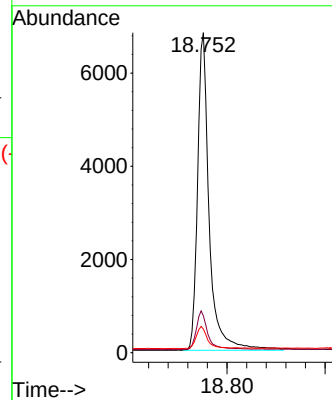
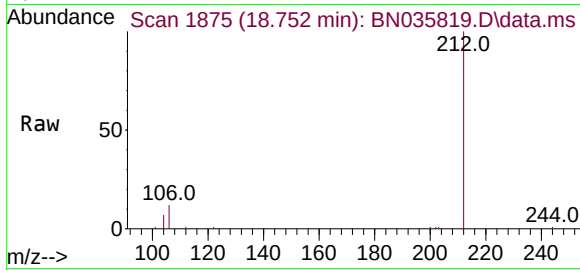
Tgt Ion:	212	Resp:	1120
Ion Ratio	Lower	Upper	
212	100		
106	12.1	9.2	13.8
104	6.8	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#28

Fluoranthene

Concen: 0.108 ng

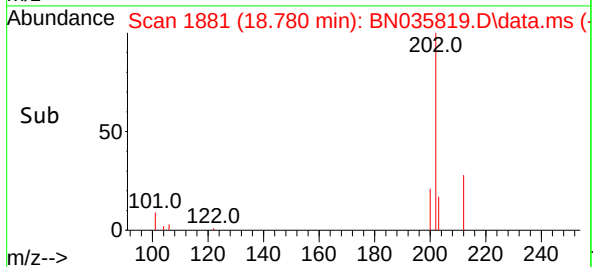
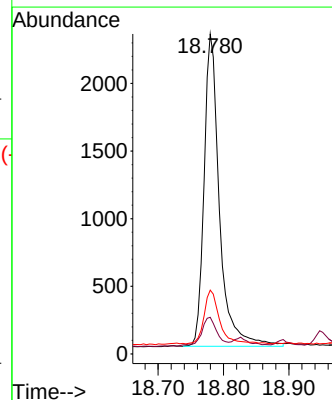
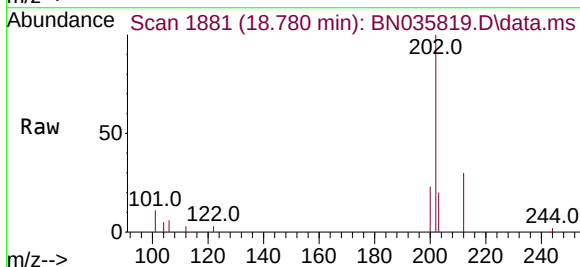
RT: 18.780 min Scan# 1881

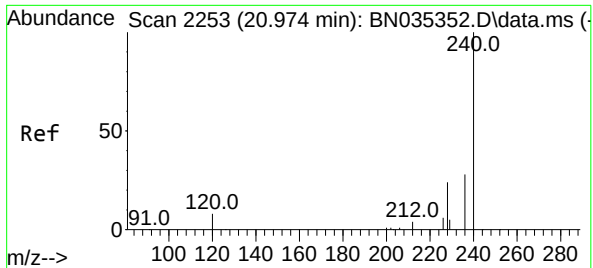
Delta R.T. -0.010 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

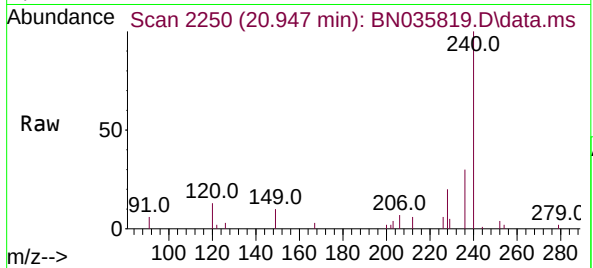
Tgt Ion:	202	Resp:	3772
Ion Ratio	Lower	Upper	
202	100		
101	9.2	7.4	11.0
203	17.9	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

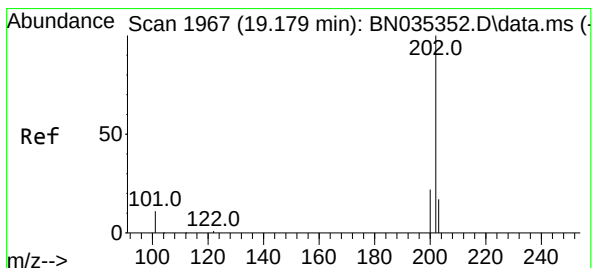
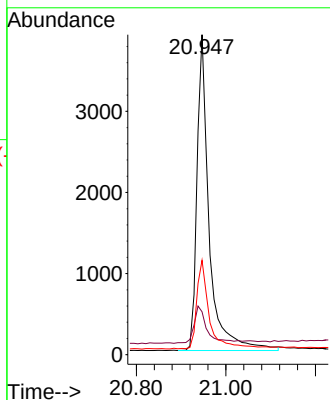
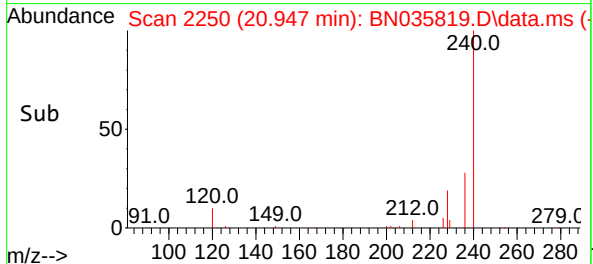
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:240 Resp: 734
Ion Ratio Lower Upper
240 100
120 13.4 7.9 11.9
236 29.5 22.9 34.3

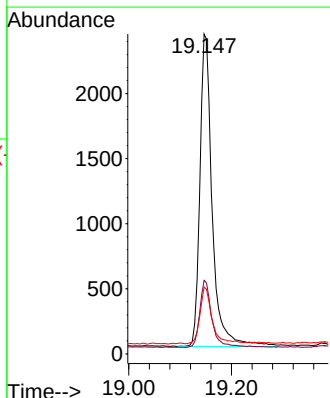
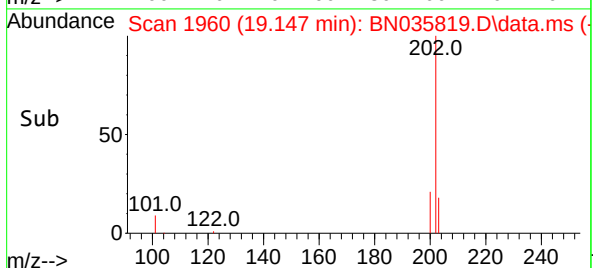
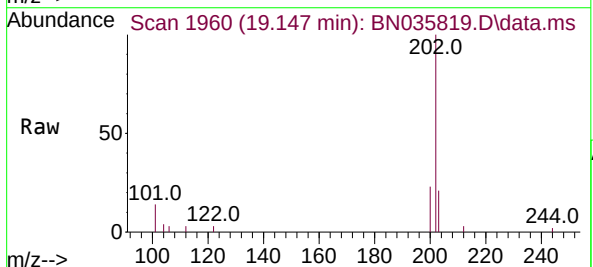
Manual Integrations
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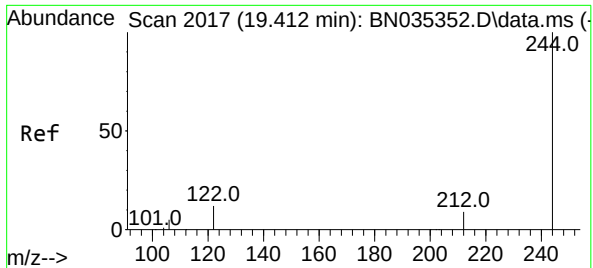
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#30
Pyrene
Concen: 0.147 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

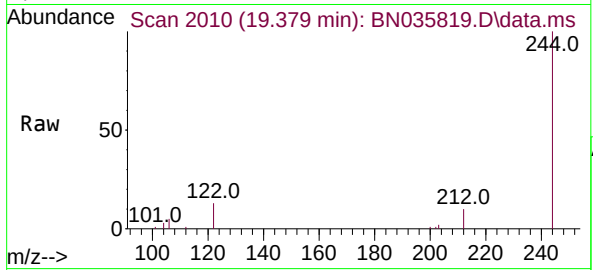
Tgt Ion:202 Resp: 3996
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.7 14.3 21.5





#31
Terphenyl-d14
Concen: 0.573 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

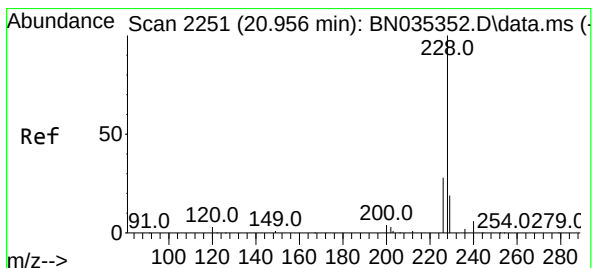
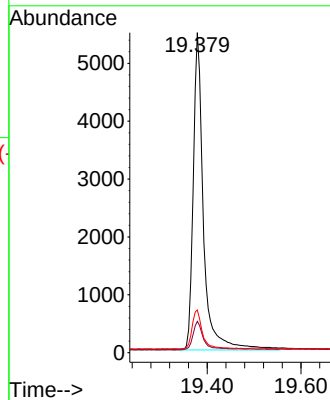
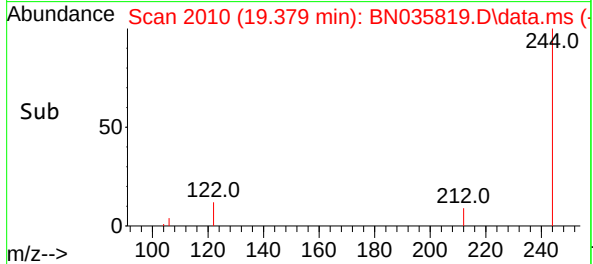
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:244 Resp: 8308
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 13.3 10.3 15.5

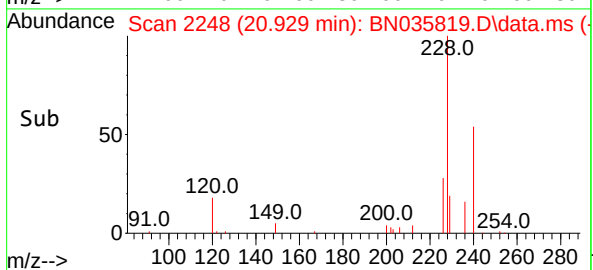
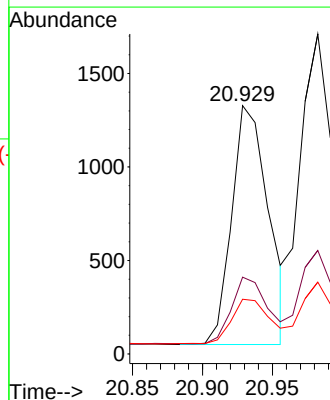
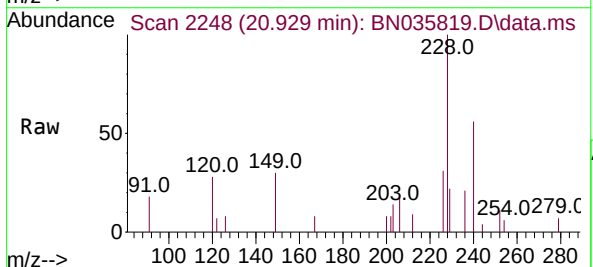
Manual Integrations
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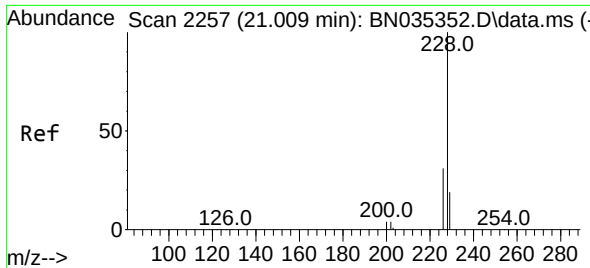
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

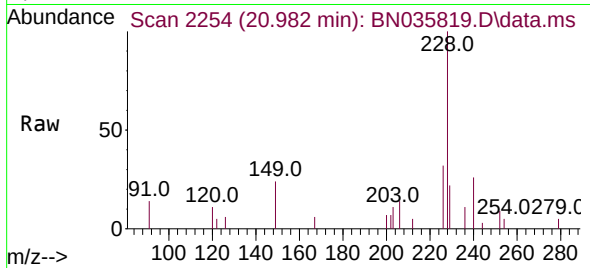
Tgt Ion:228 Resp: 2328
Ion Ratio Lower Upper
228 100
226 30.9 22.5 33.7
229 22.1 15.8 23.8





#33
Chrysene
Concen: 0.127 ng
RT: 20.982 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

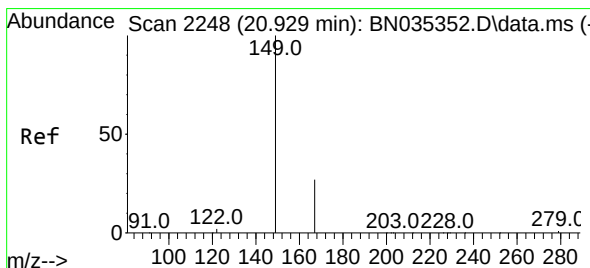
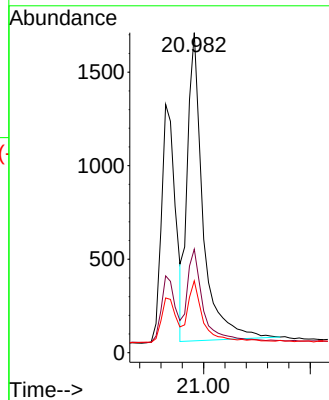
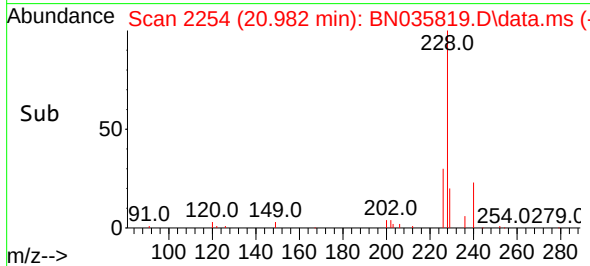
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:228 Resp: 335
Ion Ratio Lower Upper
228 100
226 32.4 24.6 37.0
229 22.4 15.9 23.9

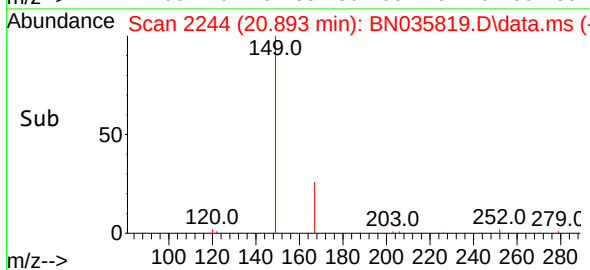
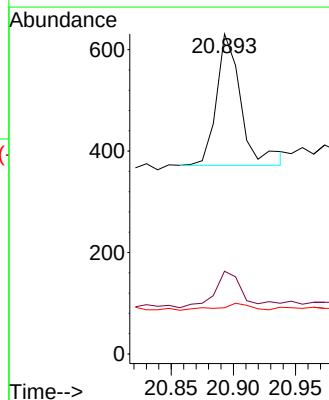
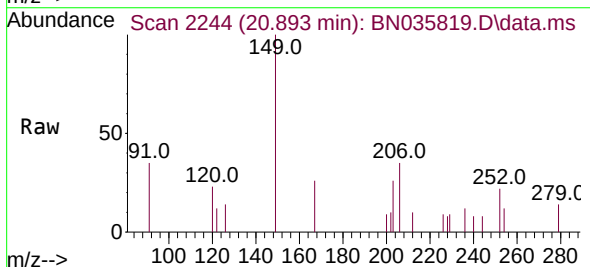
Manual Integrations
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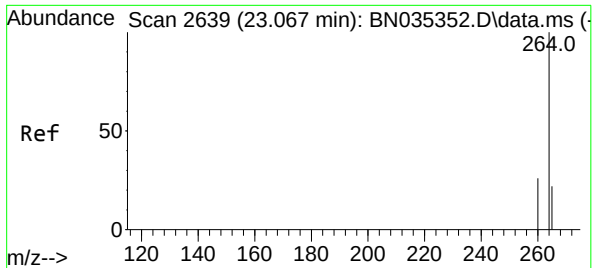
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.035 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

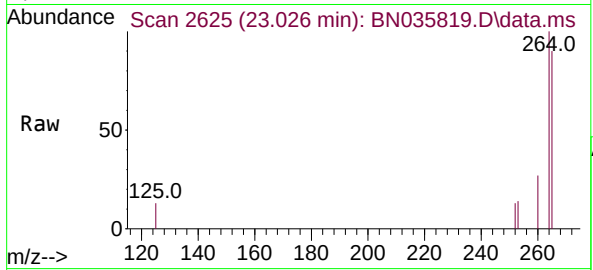
Tgt Ion:149 Resp: 357
Ion Ratio Lower Upper
149 100
167 29.4 22.2 33.4
279 6.7 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

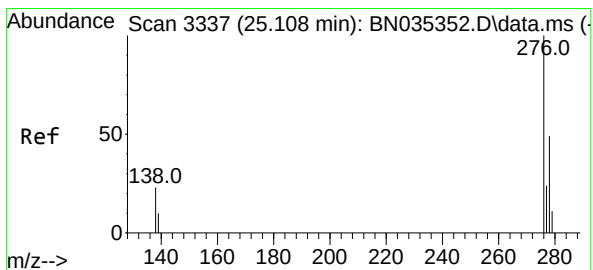
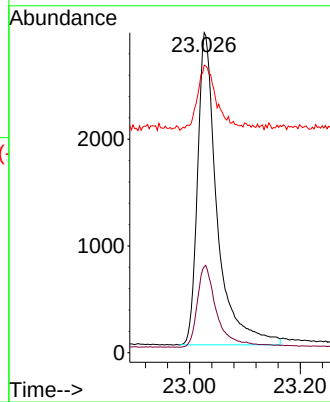
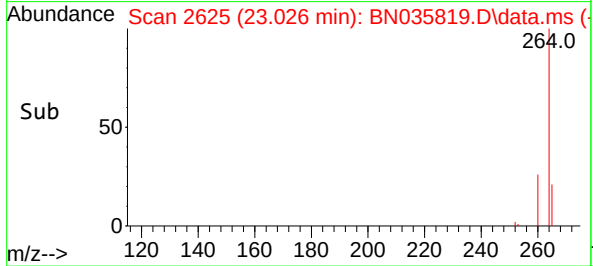
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:264 Resp: 7210
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 89.9 40.2 60.4

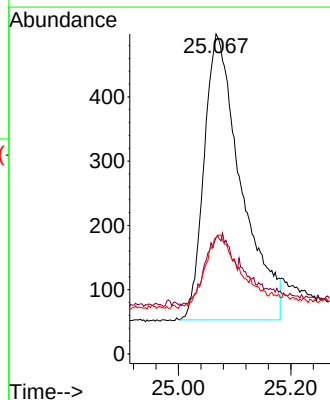
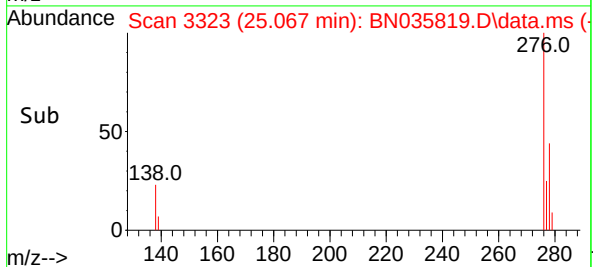
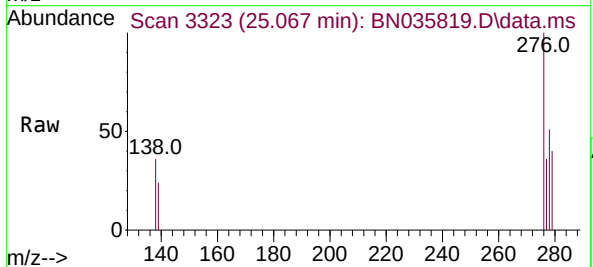
Manual Integrations
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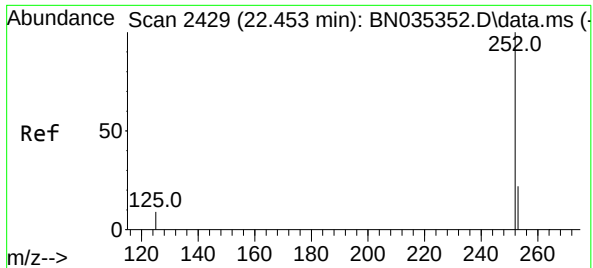
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.072 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 2032
Ion Ratio Lower Upper
276 100
138 10.6 19.4 29.0#
277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.114 ng

RT: 22.421 min Scan# 2418

Delta R.T. -0.009 min

Lab File: BN035819.D

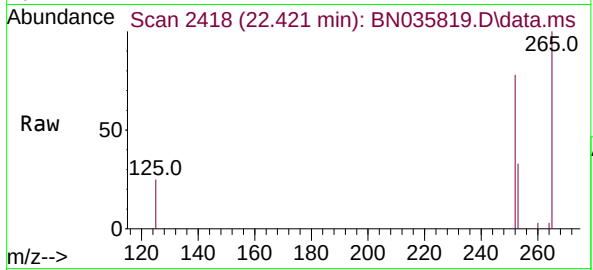
Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218



Tgt Ion:252 Resp: 301

Ion Ratio Lower Upper

252 100

253 42.7 19.6 29.4

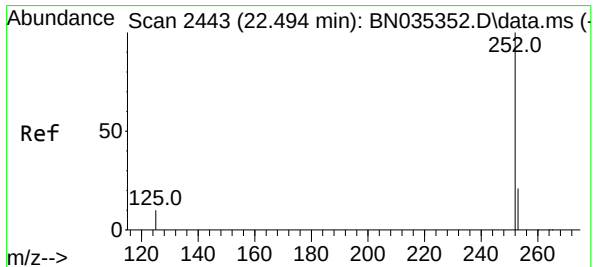
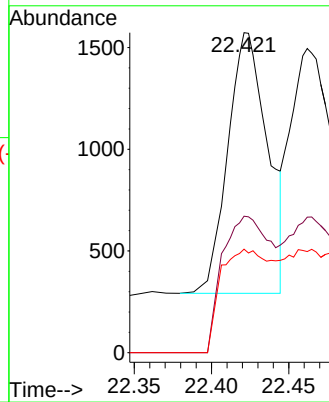
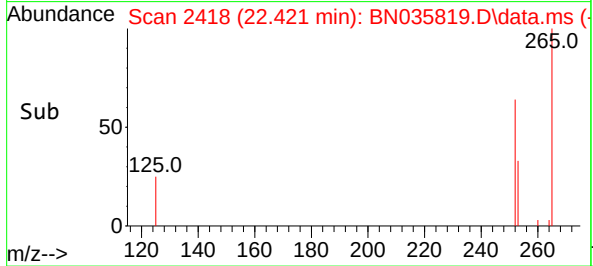
125 32.4 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

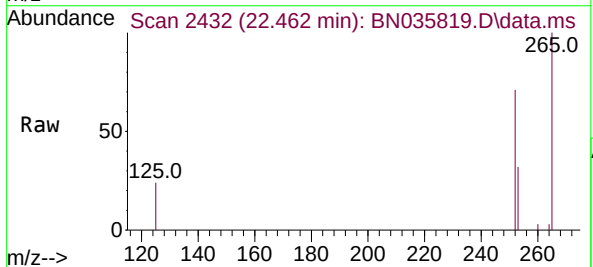
Concen: 0.100 ng

RT: 22.462 min Scan# 2432

Delta R.T. -0.009 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44



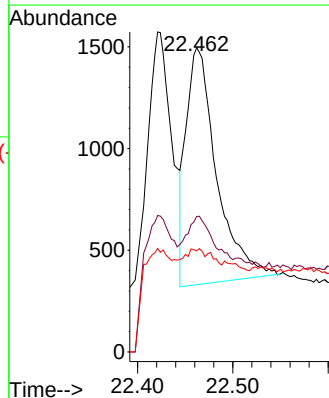
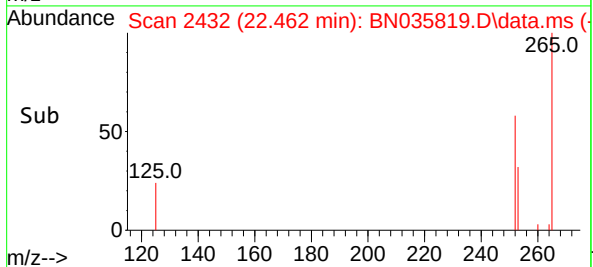
Tgt Ion:252 Resp: 2589

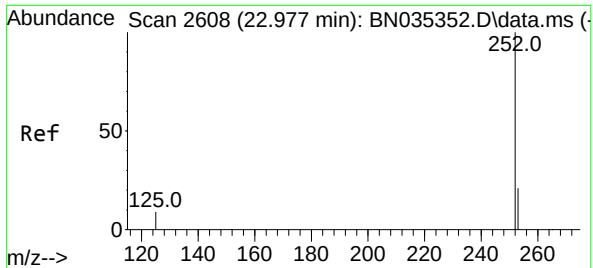
Ion Ratio Lower Upper

252 100

253 44.5 19.5 29.3

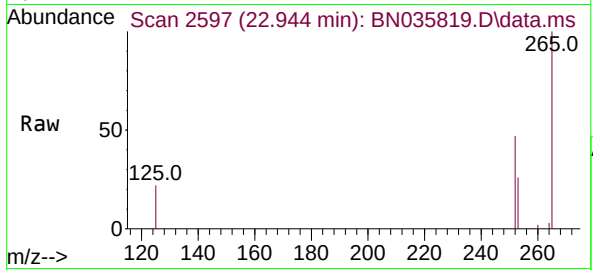
125 33.2 10.2 15.4





#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.944 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

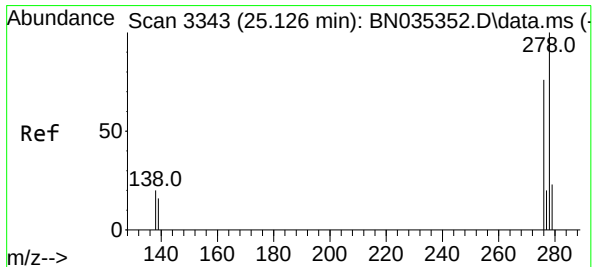
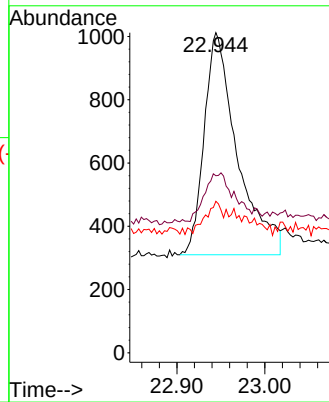
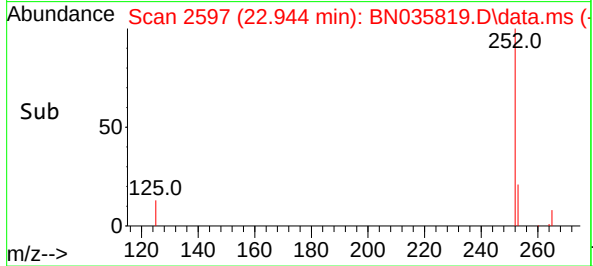
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218



Tgt Ion:252 Resp: 184
Ion Ratio Lower Upper
252 100
253 55.3 20.2 30.4#
125 47.3 10.9 16.3#

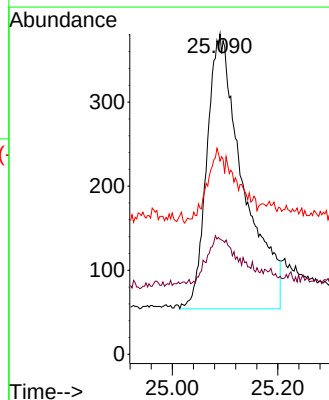
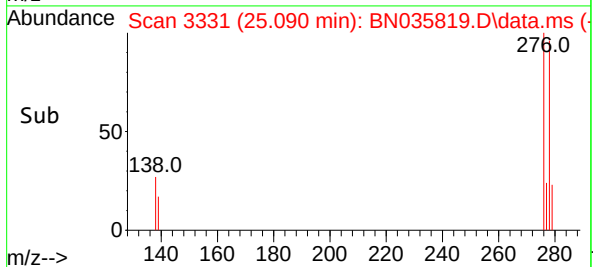
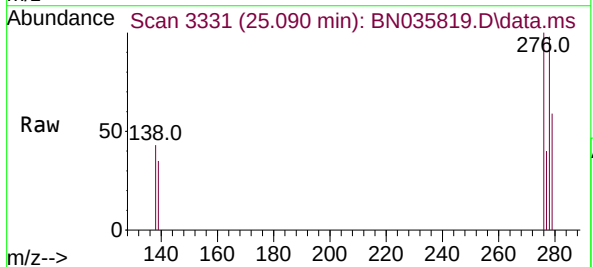
Manual Integrations
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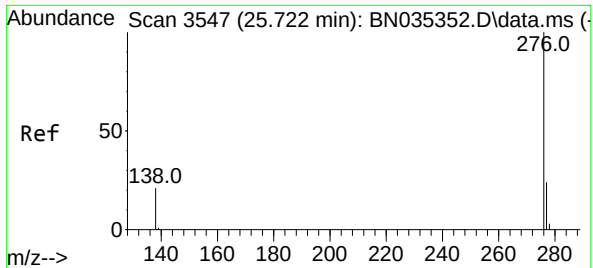
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.070 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:278 Resp: 1565
Ion Ratio Lower Upper
278 100
139 36.0 14.2 21.4#
279 60.4 20.5 30.7#





#41

Benzo(g,h,i)perylene

Concen: 0.080 ng

RT: 25.672 min Scan# 30

Delta R.T. -0.006 min

Lab File: BN035819.D

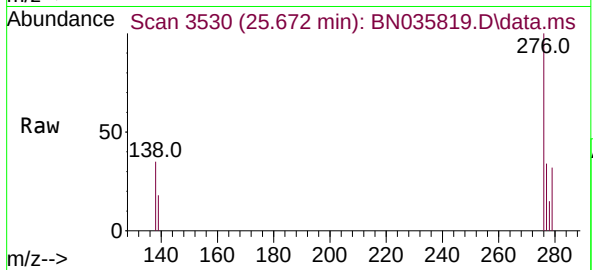
Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218



Tgt Ion: 276 Resp: 185

Ion Ratio Lower Upper

276 100

277 33.9 19.9 29.9

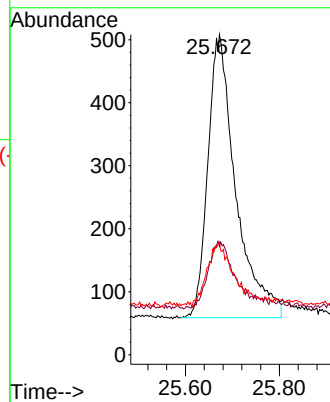
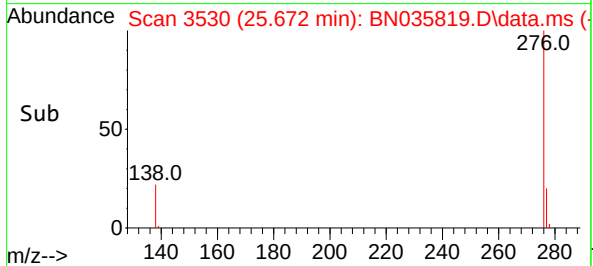
138 35.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-07	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
BN035820.D	1	12/23/24 13:29	12/24/24 14:19	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.10	JM	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		137%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3140		7.264			
1146-65-2	Naphthalene-d8	7180		10.009			
15067-26-2	Acenaphthene-d10	4460		13.924			
1517-22-2	Phenanthrene-d10	8920		16.698			
1719-03-5	Chrysene-d12	7050		20.947			
1520-96-3	Perylene-d12	6960		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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035820.D
 Acq On : 24 Dec 2024 14:19
 Operator : RC/JU
 Sample : P5376-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:18:34 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	3143	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7176	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4458	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8922	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7054	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6962	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	917	0.117	ng	0.00
5) Phenol-d6	6.484	99	441	0.047	ng	0.00
8) Nitrobenzene-d5	8.408	82	1881m	0.429	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4238	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	621	0.196	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6805	0.404	ng	0.00
27) Fluoranthene-d10	18.752	212	10147	0.401	ng	0.00
31) Terphenyl-d14	19.379	244	7626	0.548	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	288	0.096	ng	# 82
9) Naphthalene	10.062	128	1741	0.092	ng	# 85
12) 2-Methylnaphthalene	11.692	142	1119	0.083	ng	# 90
16) Acenaphthylene	13.636	152	1929	0.103	ng	99
17) Acenaphthene	13.988	154	1200	0.097	ng	99
18) Fluorene	15.004	166	1564	0.088	ng	100
25) Phenanthrene	16.735	178	2911	0.119	ng	98
26) Anthracene	16.835	178	2107	0.095	ng	97
28) Fluoranthene	18.780	202	3244	0.098	ng	100
30) Pyrene	19.151	202	3281	0.126	ng	99
32) Benzo(a)anthracene	20.938	228	2057	0.083	ng	94
33) Chrysene	20.982	228	2719	0.107	ng	95
34) Bis(2-ethylhexyl)phtha...	20.902	149	426	0.044	ng	# 88
36) Indeno(1,2,3-cd)pyrene	25.076	276	1756	0.065	ng	# 79
37) Benzo(b)fluoranthene	22.427	252	2679	0.105	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	2525m	0.101	ng	
39) Benzo(a)pyrene	22.947	252	1551	0.074	ng	# 24
40) Dibenzo(a,h)anthracene	25.093	278	1312	0.061	ng	# 29
41) Benzo(g,h,i)perylene	25.675	276	1511	0.067	ng	# 72

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

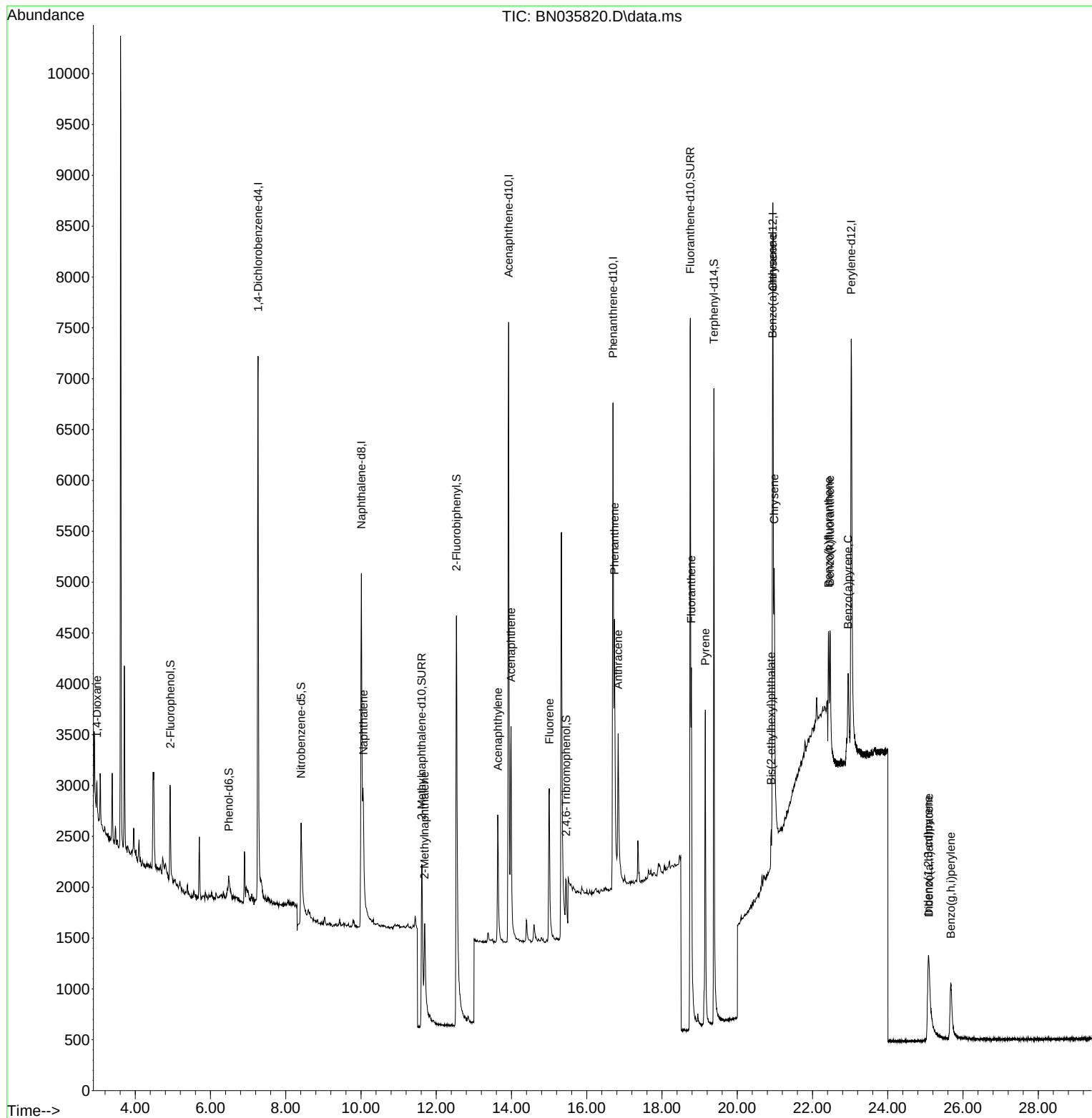
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

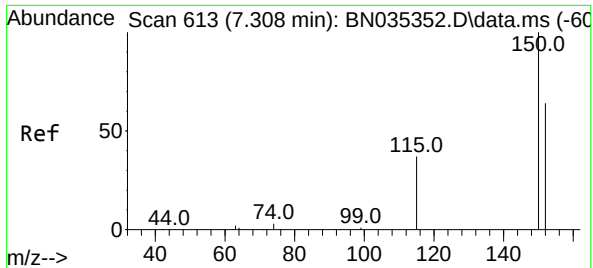
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

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

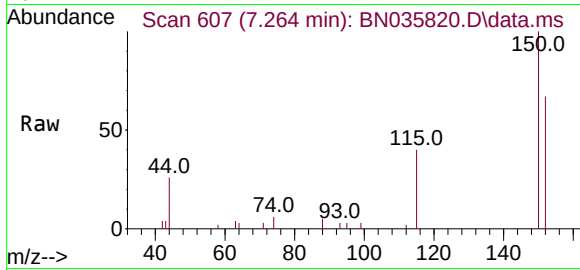
Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

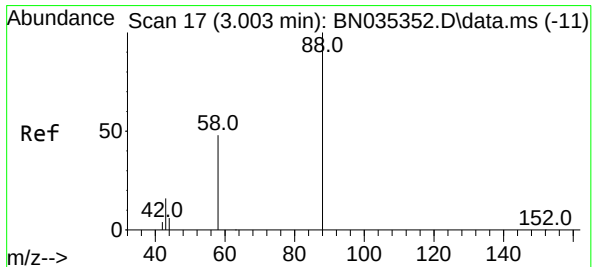
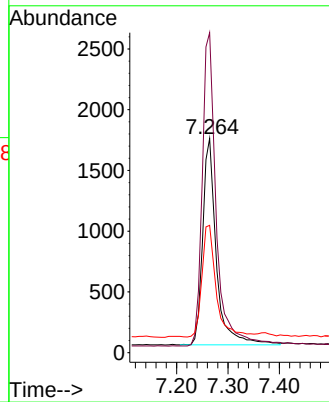
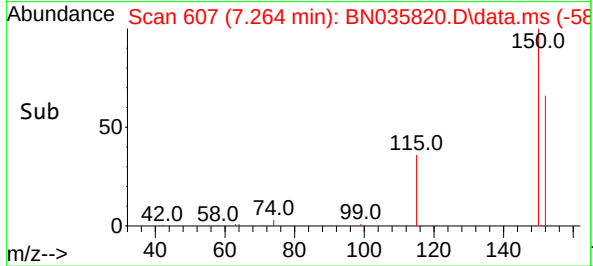
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion: 152 Resp: 314
Ion Ratio Lower Upper
152 100
150 149.4 124.0 186.0
115 59.5 49.6 74.4

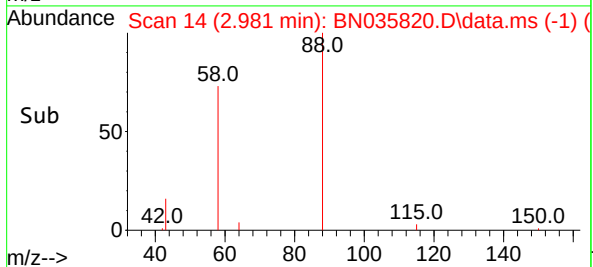
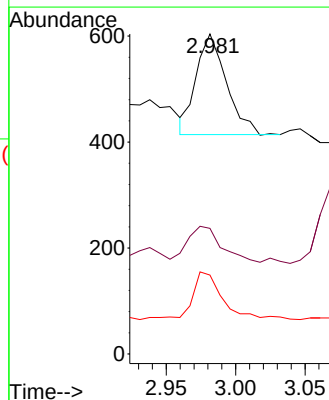
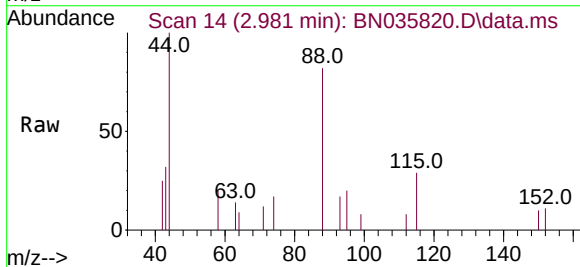
Manual Integrations
APPROVED

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

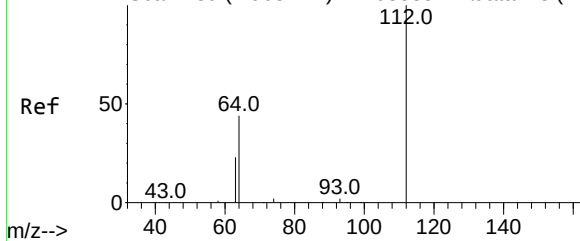


#2
1,4-Dioxane
Concen: 0.096 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 88 Resp: 288
Ion Ratio Lower Upper
88 100
43 39.6 17.2 25.8#
58 48.3 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.117 ng

RT: 4.931 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

Tgt Ion:	112	Resp:	91
Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	31.2	21.0	31.6

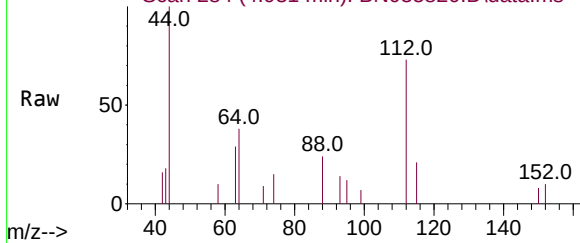
Manual Integrations

APPROVED

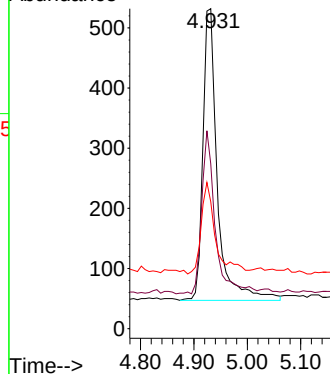
Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024

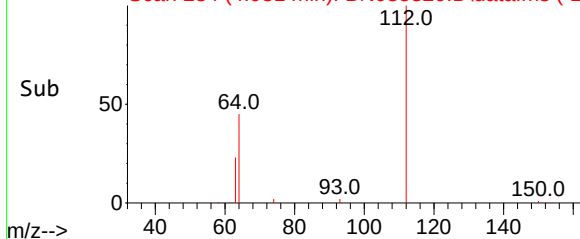
Abundance Scan 284 (4.931 min): BN035820.D\data.ms



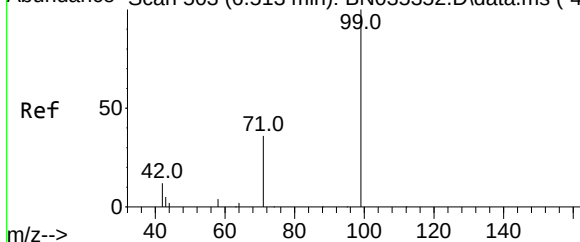
Abundance



Abundance Scan 284 (4.931 min): BN035820.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.047 ng

RT: 6.484 min Scan# 499

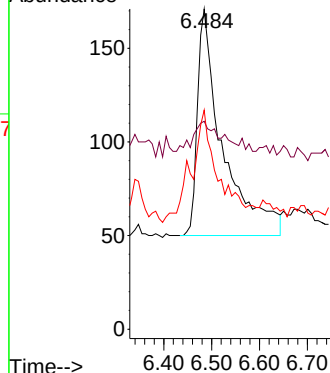
Delta R.T. -0.007 min

Lab File: BN035820.D

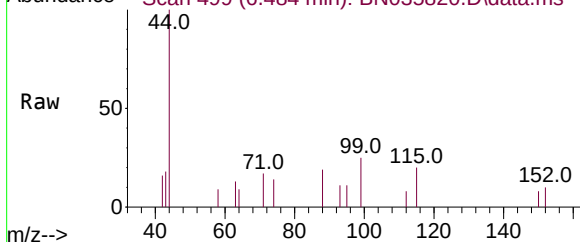
Acq: 24 Dec 2024 14:19

Tgt Ion:	99	Resp:	441
Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	54.9	29.3	43.9

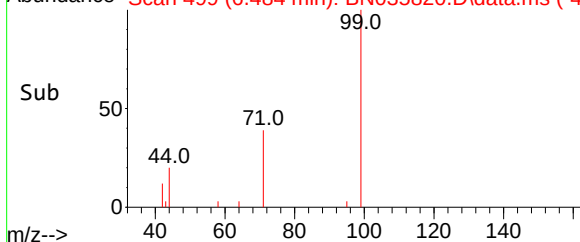
Abundance

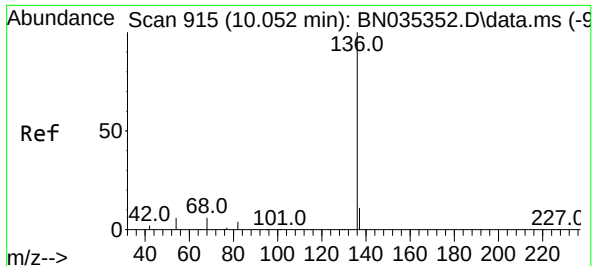


Abundance Scan 499 (6.484 min): BN035820.D\data.ms



Abundance Scan 499 (6.484 min): BN035820.D\data.ms (-47





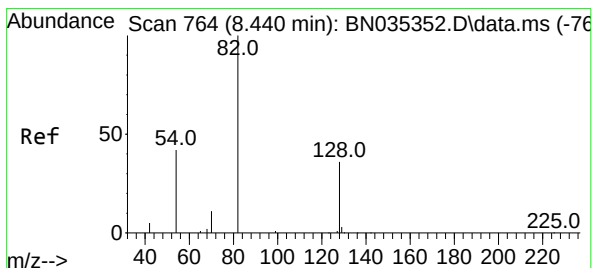
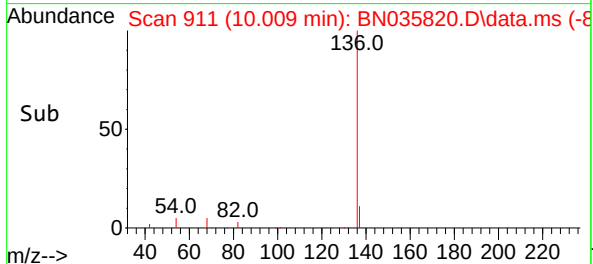
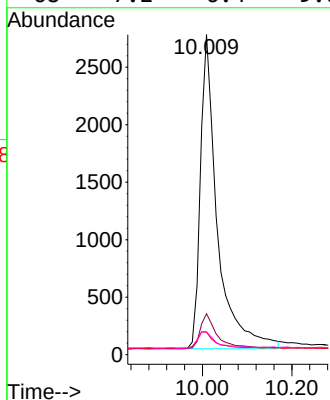
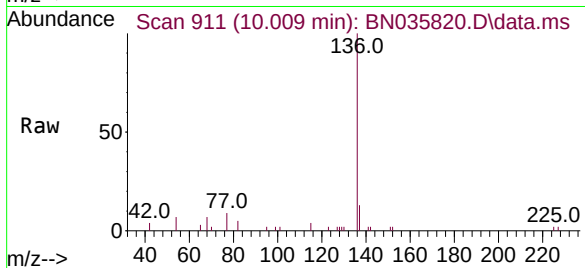
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.2	6.4	9.6

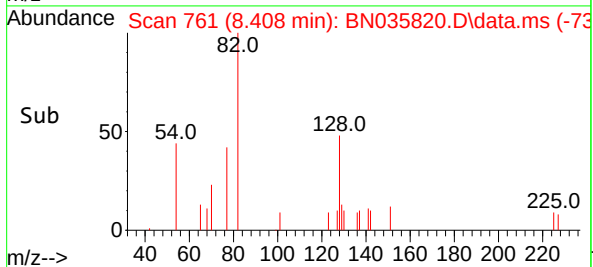
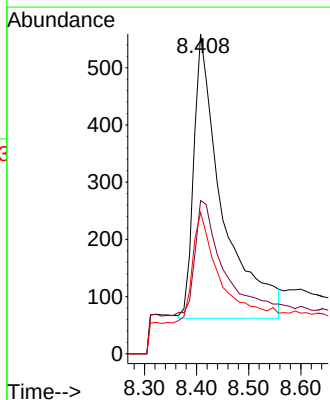
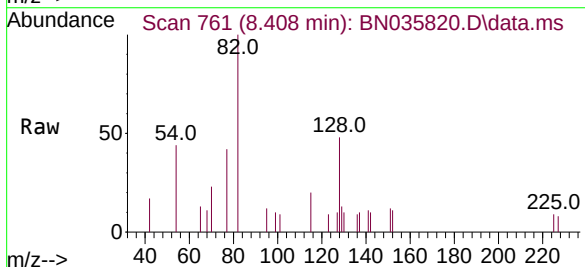
Manual Integrations
APPROVED

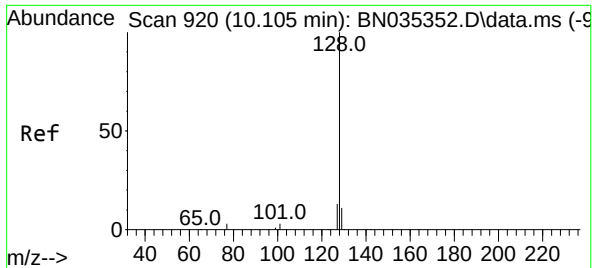
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.429 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

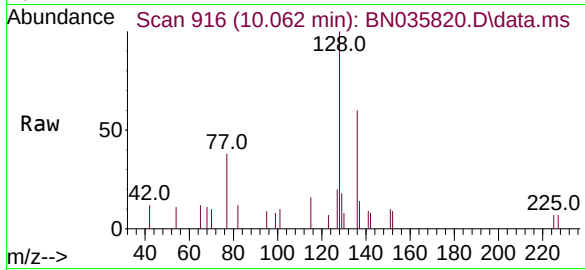
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.2	36.7	55.1





#9
Naphthalene
Concen: 0.092 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

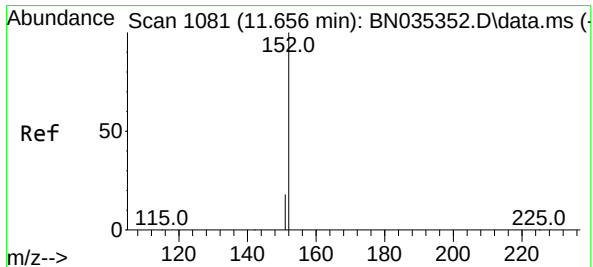
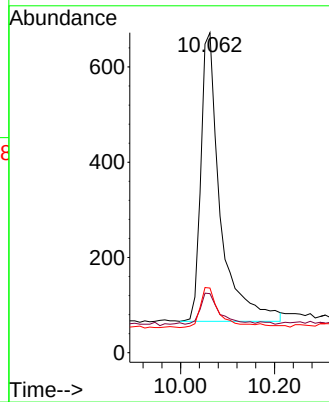
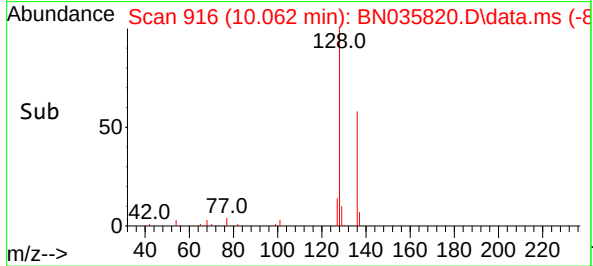
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion:128 Resp: 174
Ion Ratio Lower Upper
128 100
129 18.5 9.8 14.6
127 20.2 11.4 17.2

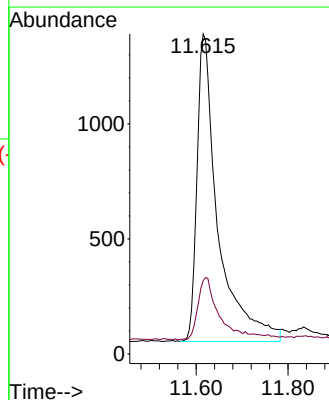
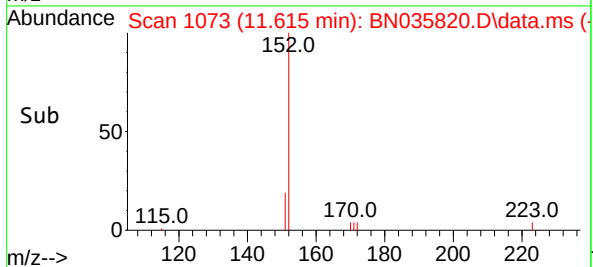
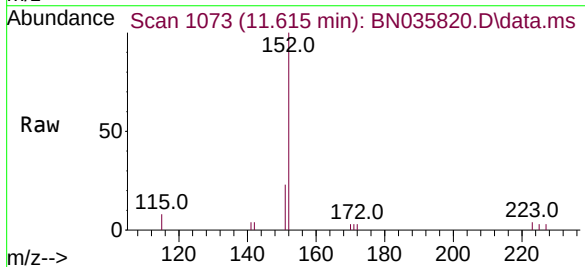
Manual Integrations
APPROVED

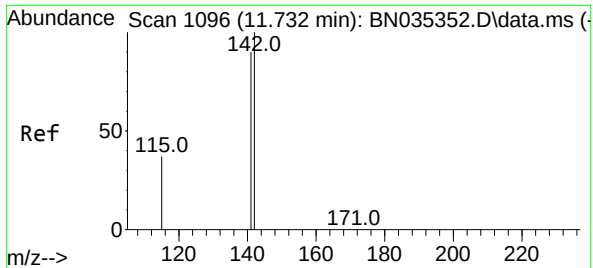
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 4238
Ion Ratio Lower Upper
152 100
151 19.8 16.6 25.0





#12

2-Methylnaphthalene

Concen: 0.083 ng

RT: 11.692 min Scan# 1096

Delta R.T. -0.005 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

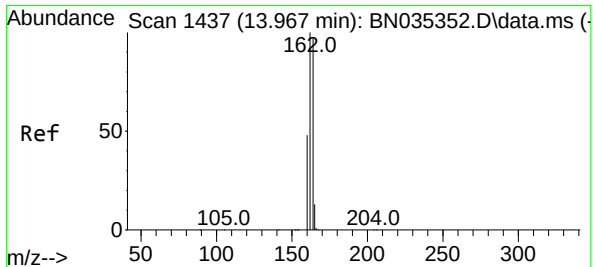
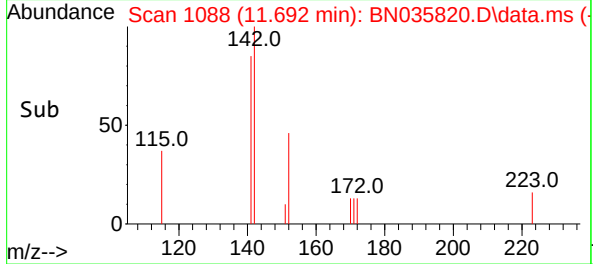
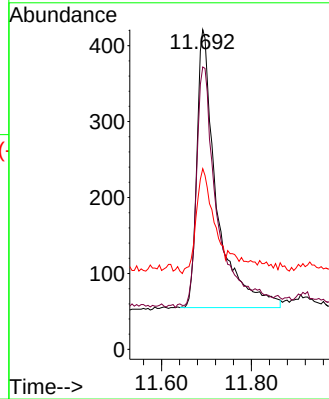
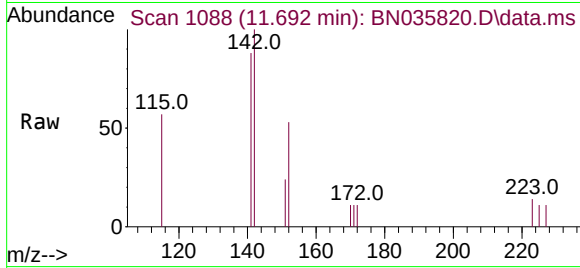
Tgt Ion:	142	Resp:	1119
Ion	Ratio	Lower	Upper
142	100		
141	88.4	72.2	108.4
115	56.5	31.4	47.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#13

Acenaphthene-d10

Concen: 0.400 ng

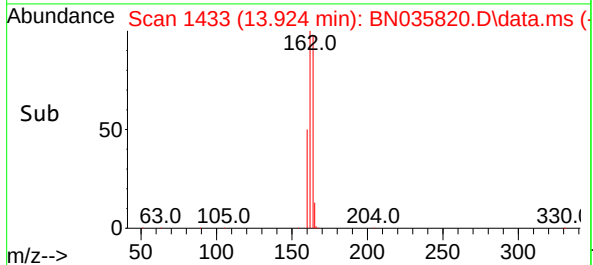
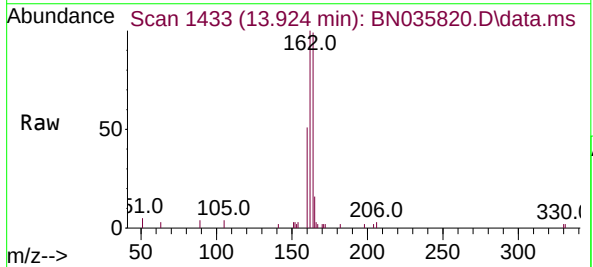
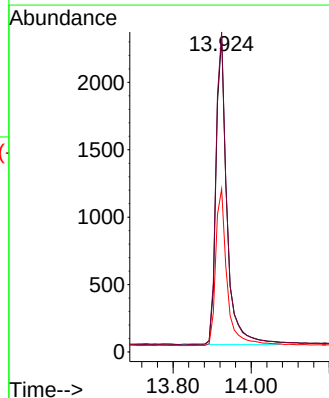
RT: 13.924 min Scan# 1433

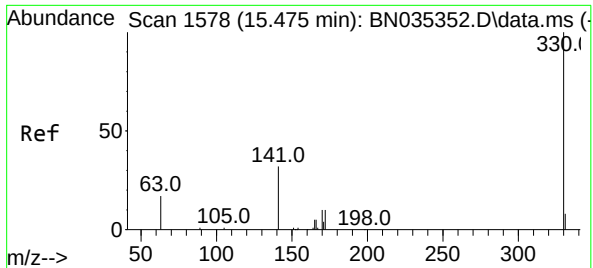
Delta R.T. -0.011 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

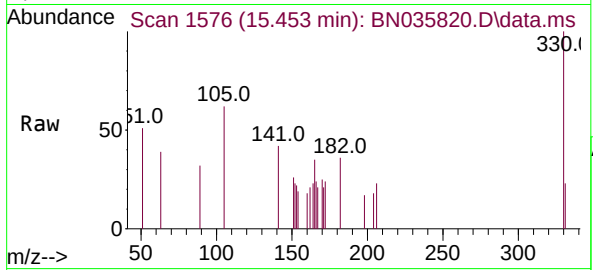
Tgt Ion:	164	Resp:	4458
Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	51.7	40.1	60.1





#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

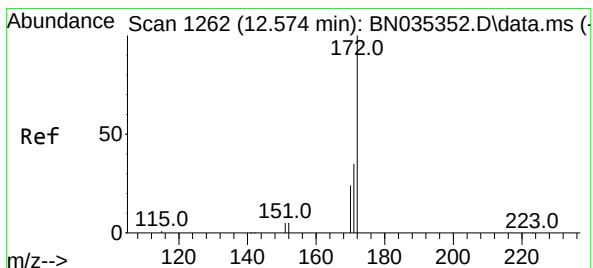
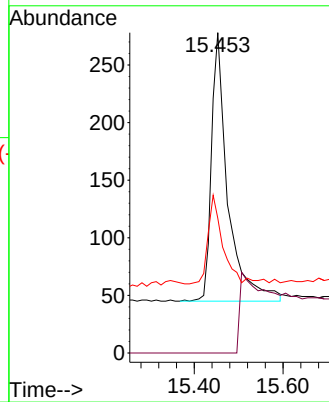
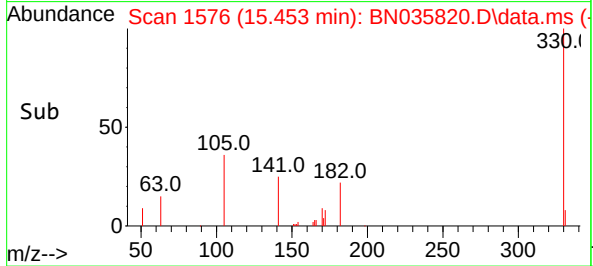
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion: 330 Resp: 62
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.7 26.6 40.0

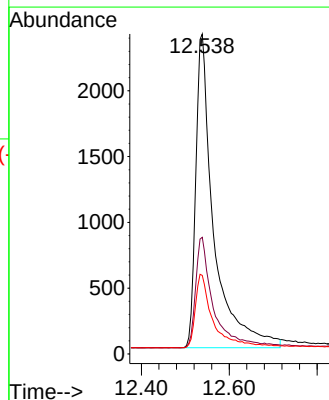
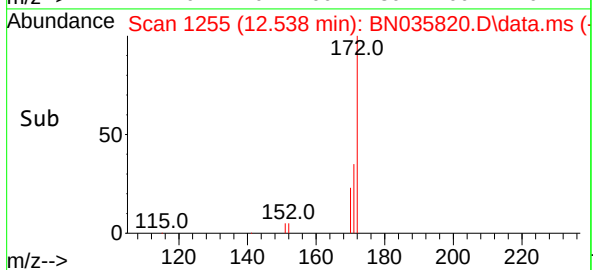
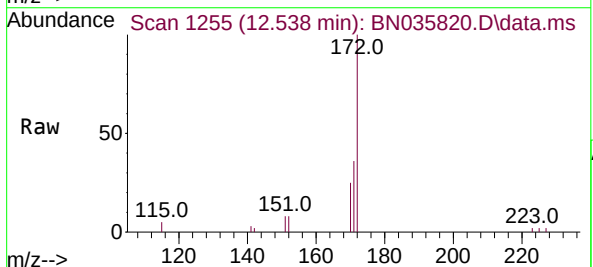
Manual Integrations
APPROVED

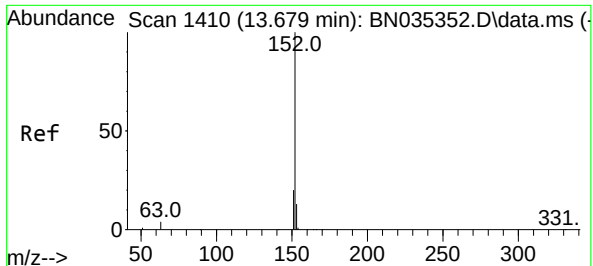
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

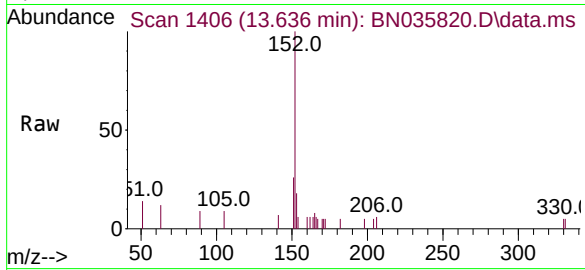
Tgt Ion: 172 Resp: 6805
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.5 19.8 29.8





#16
Acenaphthylene
Concen: 0.103 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

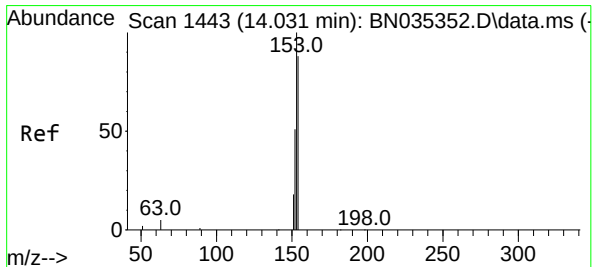
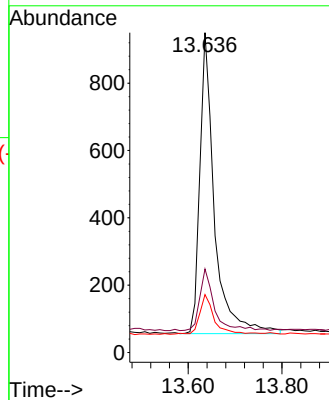
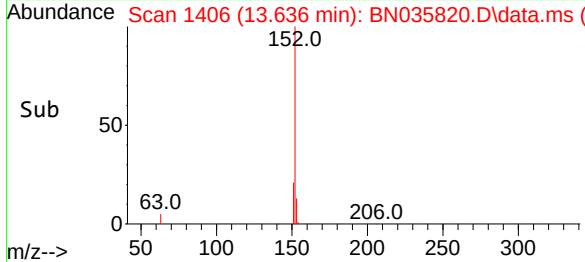
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion:152 Resp: 1929
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 13.3 10.4 15.6

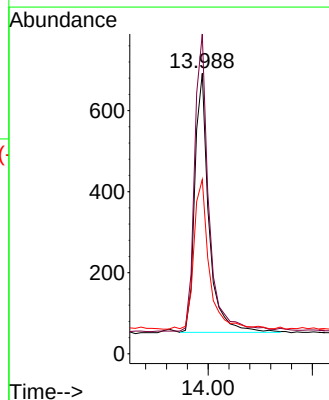
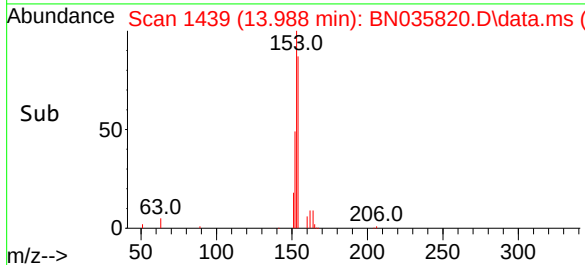
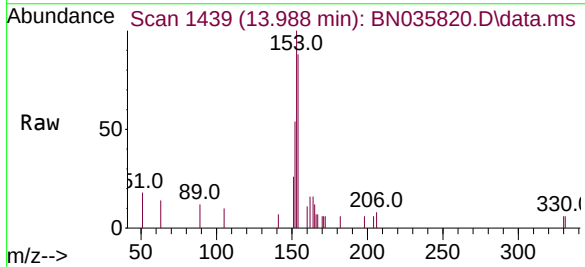
Manual Integrations
APPROVED

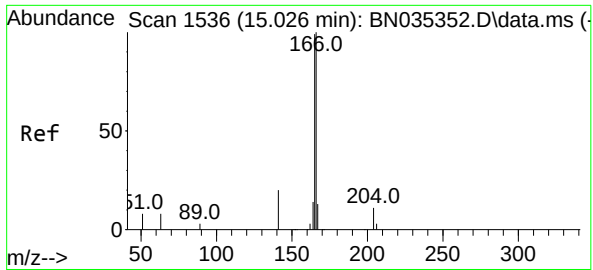
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.097 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

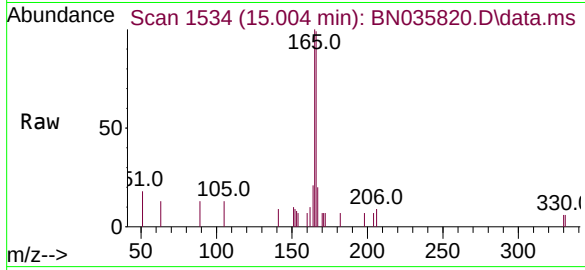
Tgt Ion:154 Resp: 1200
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 62.3 49.0 73.6





#18
Fluorene
Concen: 0.088 ng
RT: 15.004 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

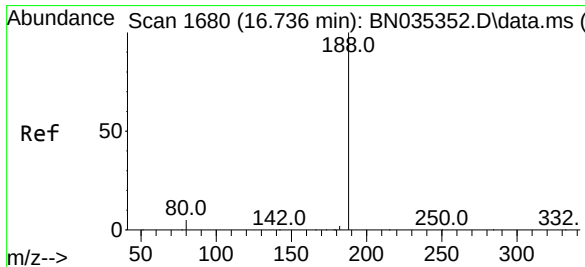
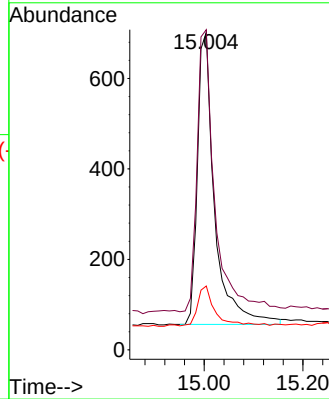
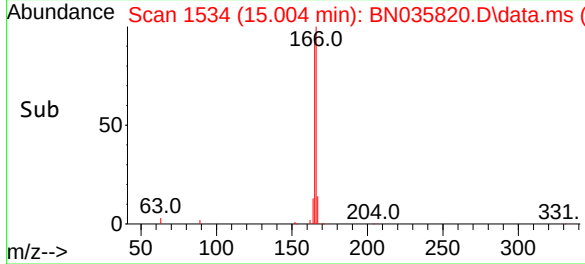
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion:166 Resp: 1564
Ion Ratio Lower Upper
166 100
165 99.9 79.7 119.5
167 13.8 10.8 16.2

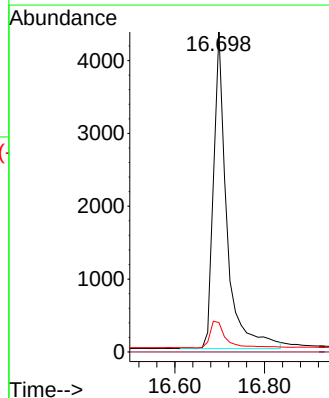
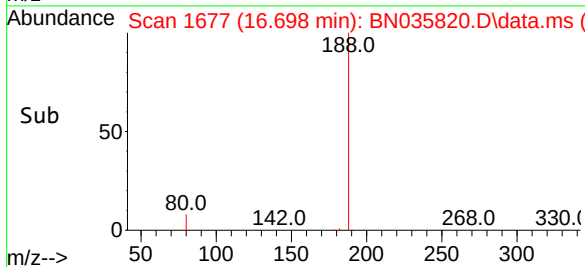
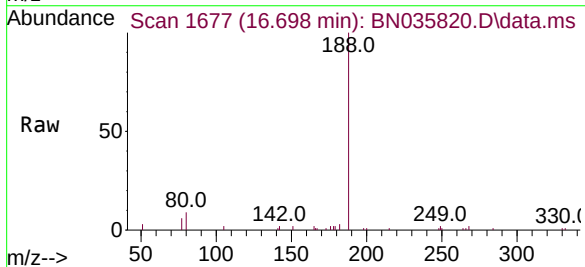
Manual Integrations
APPROVED

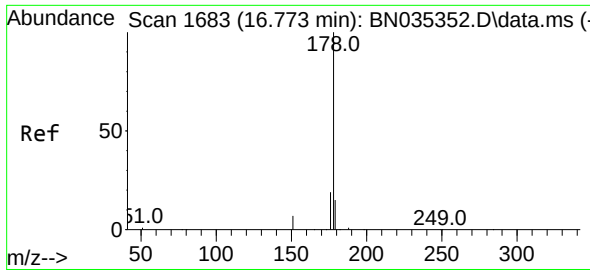
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

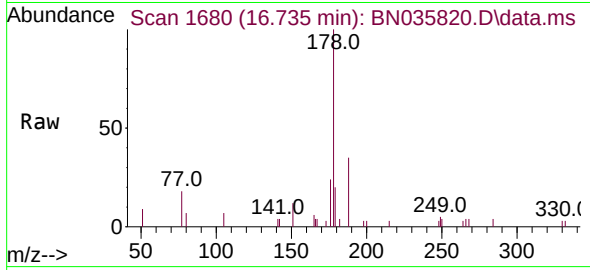
Tgt Ion:188 Resp: 8922
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 4.6 6.8#





#25
Phenanthrene
Concen: 0.119 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

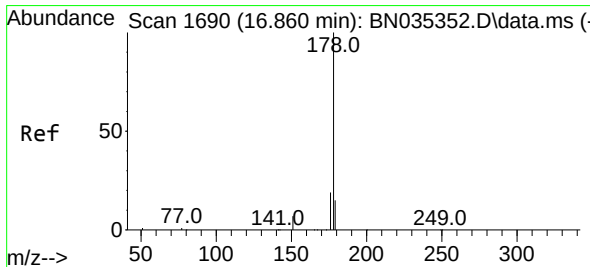
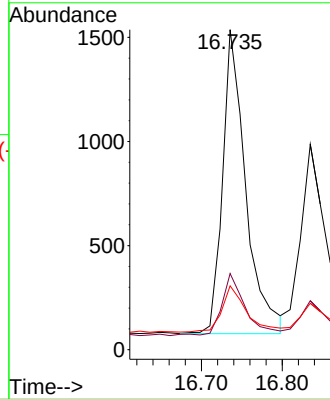
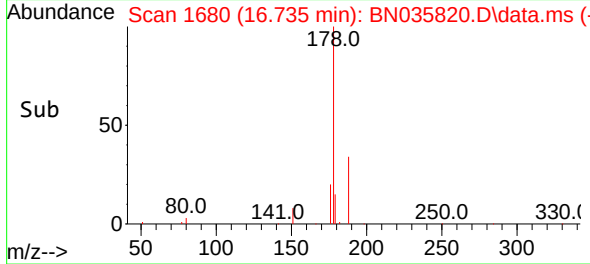
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion:178 Resp: 291
Ion Ratio Lower Upper
178 100
176 20.8 15.4 23.2
179 15.9 12.3 18.5

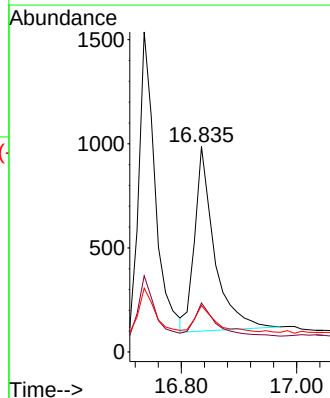
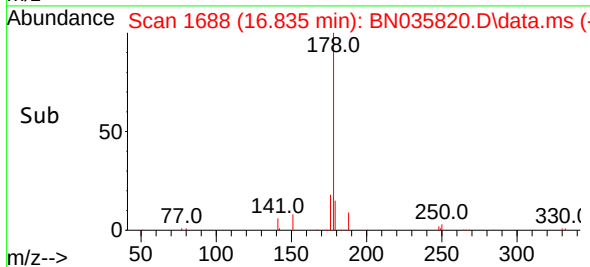
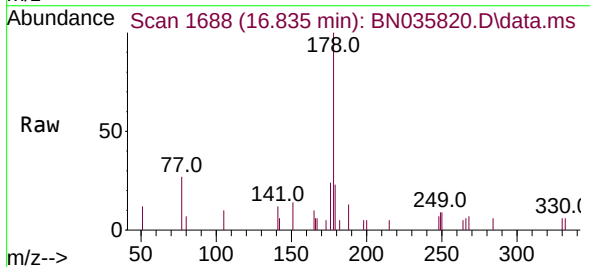
Manual Integrations
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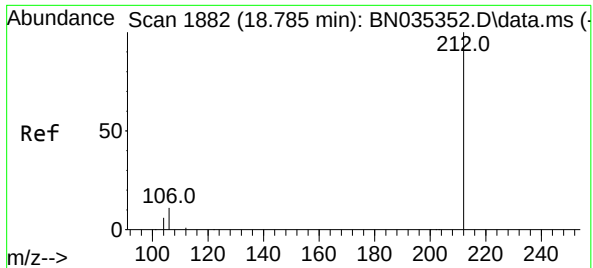
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.095 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:178 Resp: 2107
Ion Ratio Lower Upper
178 100
176 20.4 15.0 22.6
179 16.5 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.401 ng

RT: 18.752 min Scan# 1875

Delta R.T. -0.010 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

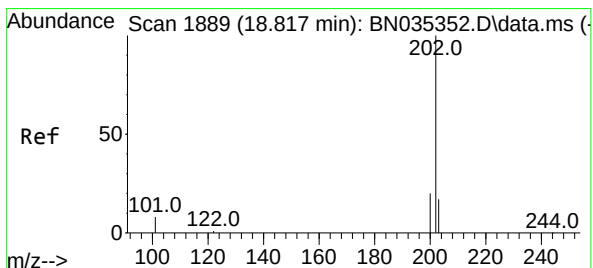
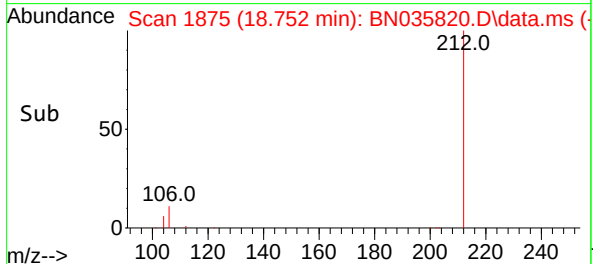
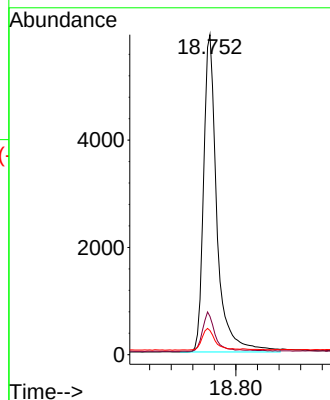
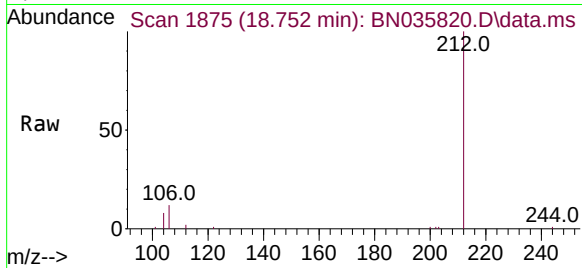
RW10-MW01S-20241218

Tgt Ion:	212	Resp:	1014
Ion Ratio	Lower	Upper	
212	100		
106	11.7	9.2	13.8
104	6.6	5.3	7.9

Manual Integrations

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



#28

Fluoranthene

Concen: 0.098 ng

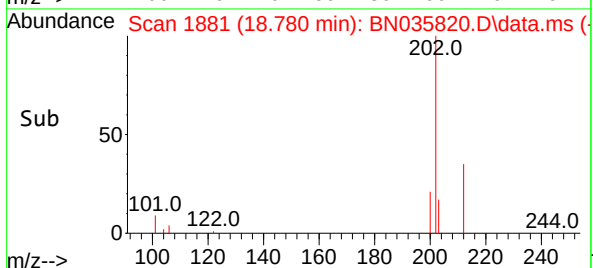
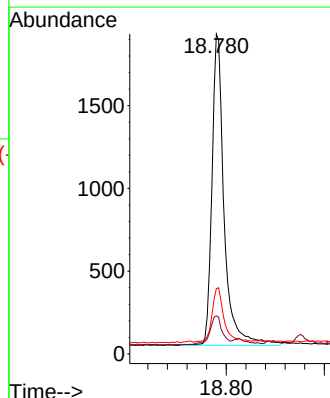
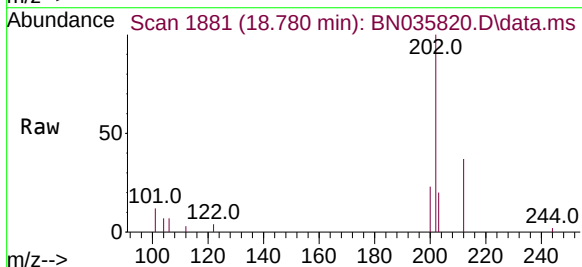
RT: 18.780 min Scan# 1881

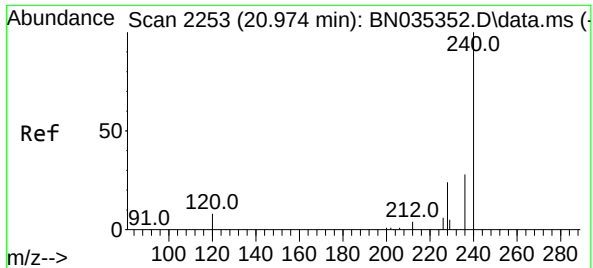
Delta R.T. -0.010 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Tgt Ion:	202	Resp:	3244
Ion Ratio	Lower	Upper	
202	100		
101	9.2	7.4	11.0
203	17.2	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

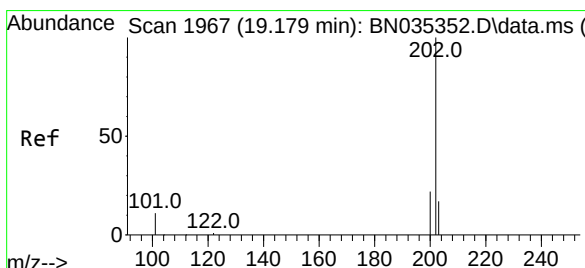
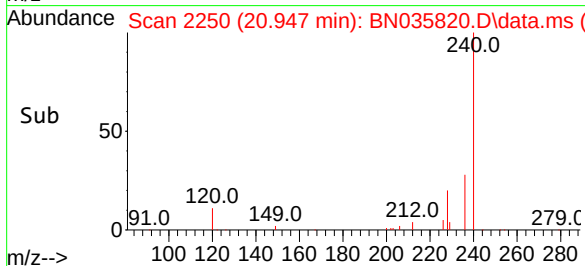
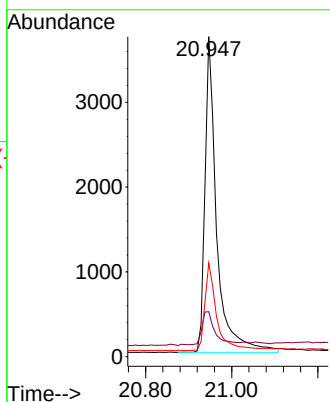
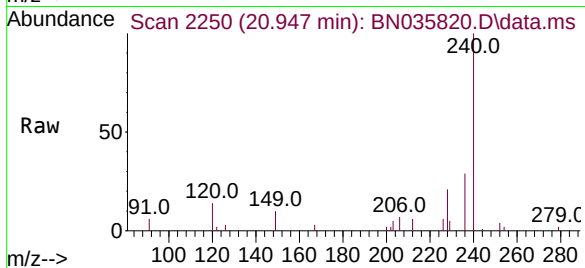
Tgt Ion:	240	Resp:	7054
Ion	Ratio	Lower	Upper
240	100		
120	14.1	7.9	11.9
236	29.3	22.9	34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.126 ng

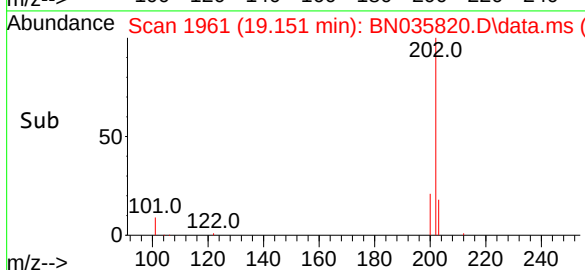
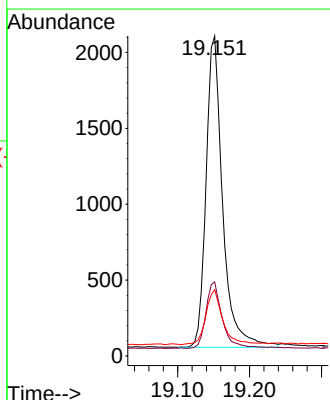
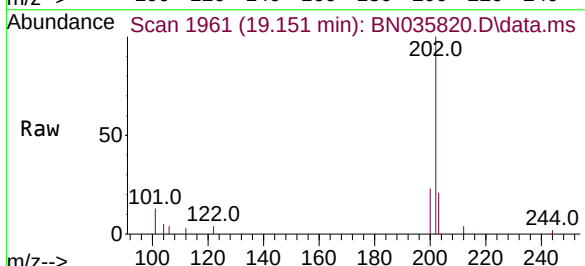
RT: 19.151 min Scan# 1961

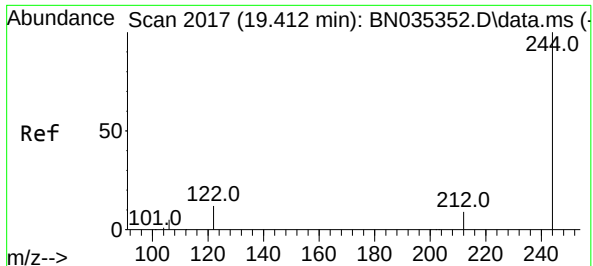
Delta R.T. -0.010 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

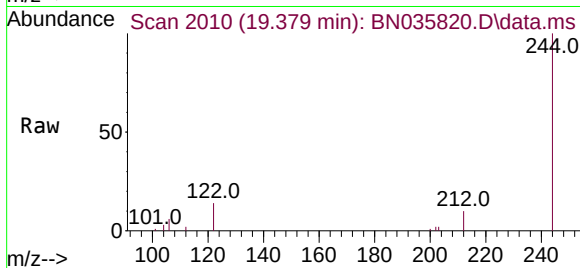
Tgt Ion:	202	Resp:	3281
Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.1	14.3	21.5





#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

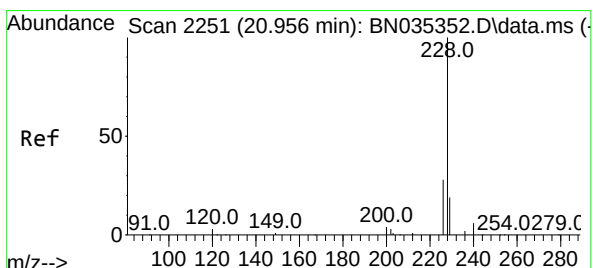
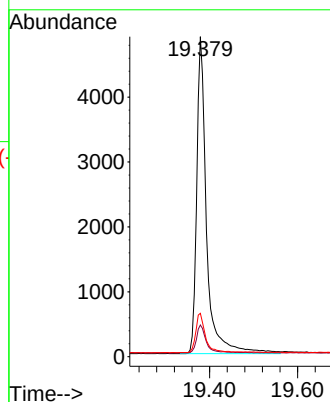
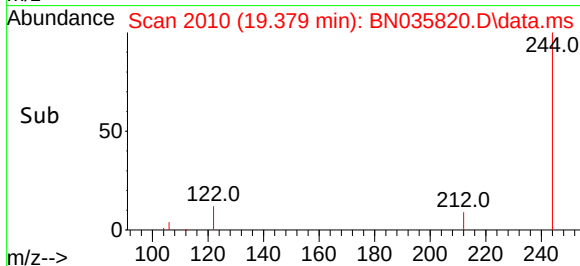
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion:244 Resp: 7620
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.5 10.3 15.5

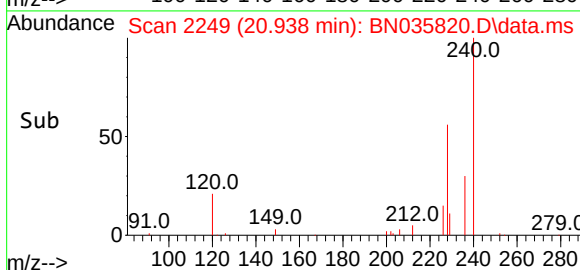
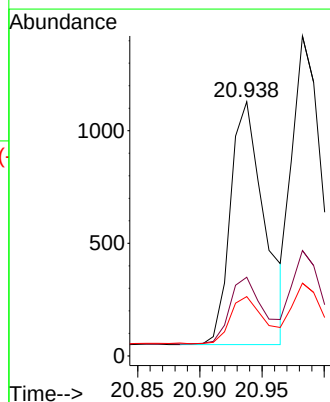
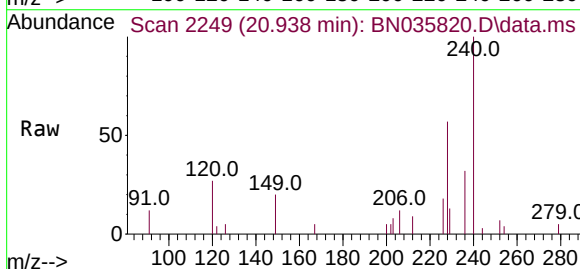
Manual Integrations
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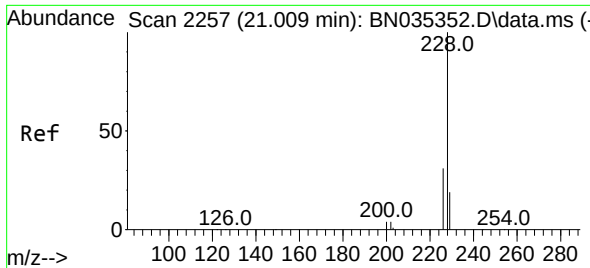
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.083 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 2057
Ion Ratio Lower Upper
228 100
226 30.9 22.5 33.7
229 23.3 15.8 23.8





#33

Chrysene

Concen: 0.107 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

Tgt Ion:228 Resp: 2719

Ion Ratio Lower Upper

228 100

226 32.9 24.6 37.0

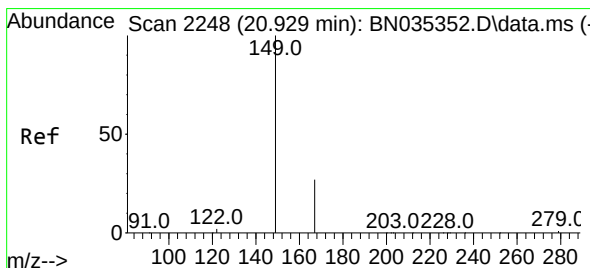
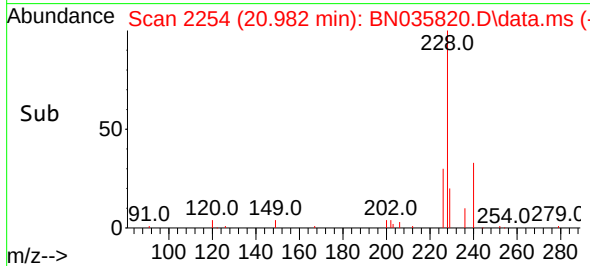
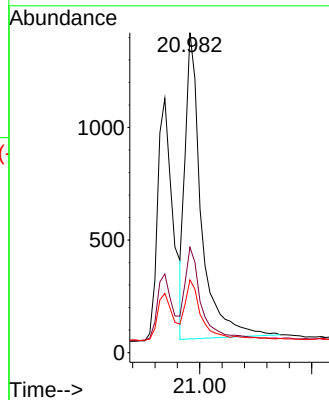
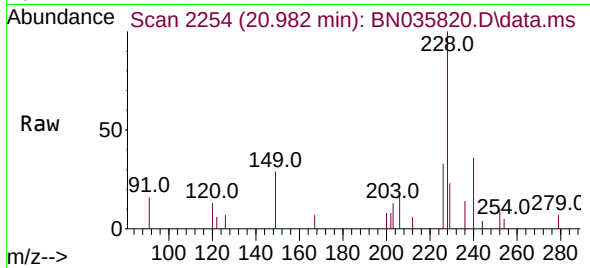
229 22.7 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.044 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

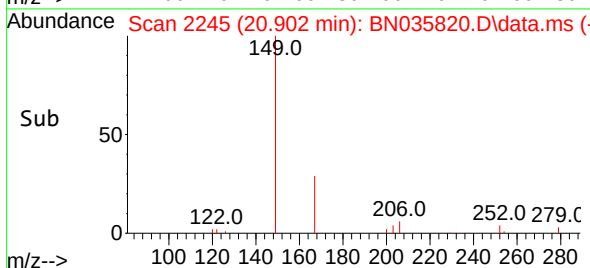
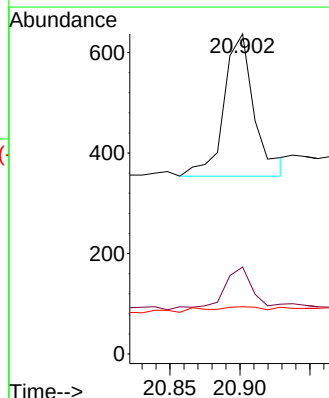
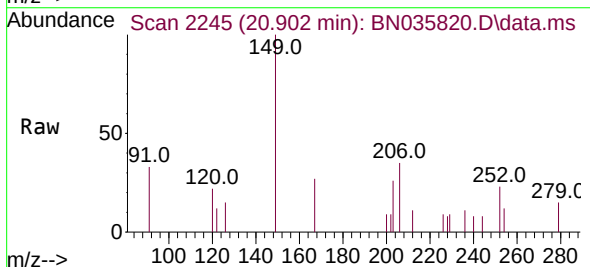
Tgt Ion:149 Resp: 426

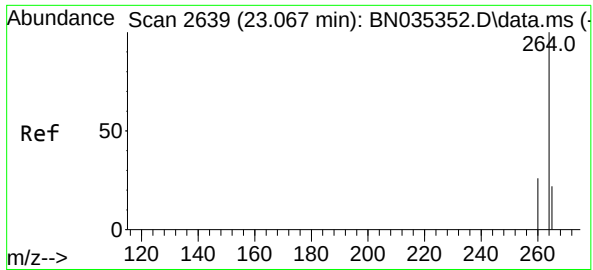
Ion Ratio Lower Upper

149 100

167 34.0 22.2 33.4#

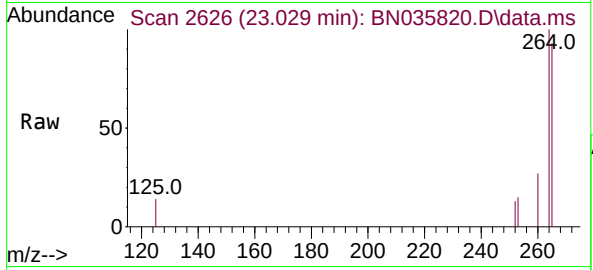
279 7.3 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 20
Delta R.T. -0.012 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

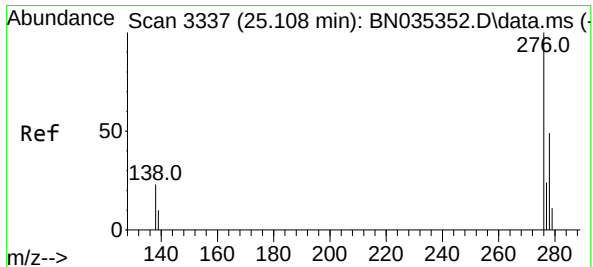
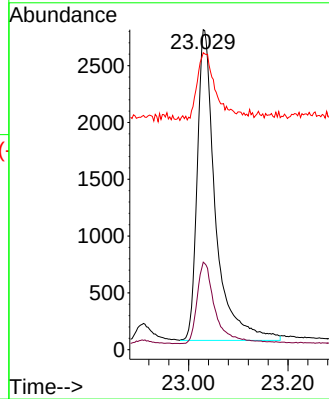
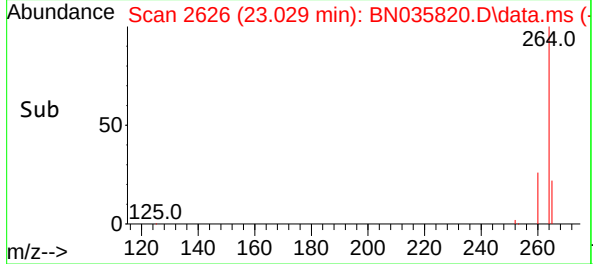
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218



Tgt Ion:264 Resp: 696
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 92.8 40.2 60.4

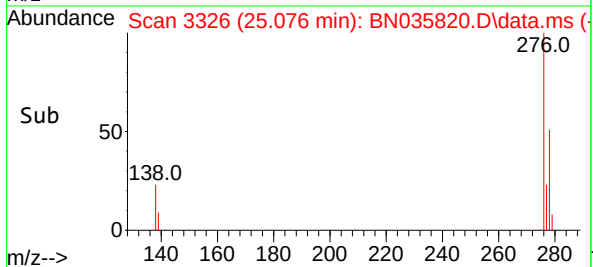
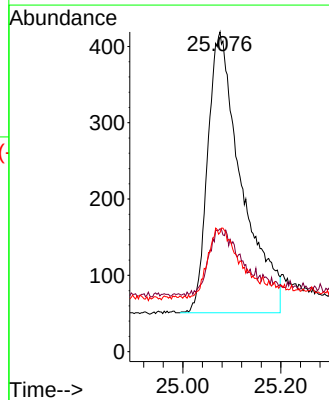
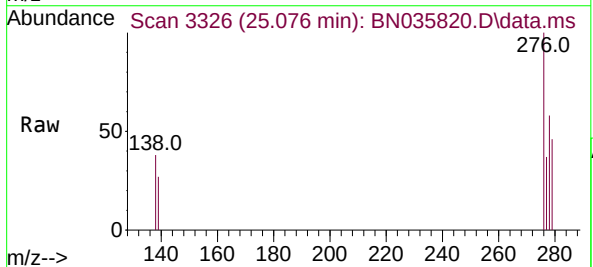
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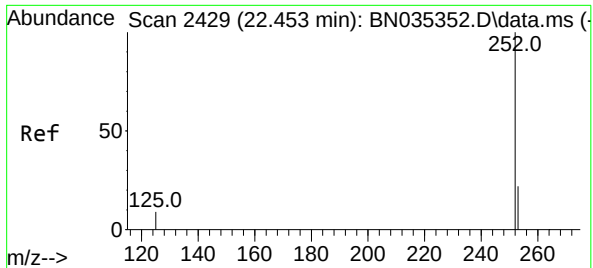
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.065 ng
RT: 25.076 min Scan# 3326
Delta R.T. 0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 1756
Ion Ratio Lower Upper
276 100
138 20.6 19.4 29.0
277 7.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.105 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035820.D

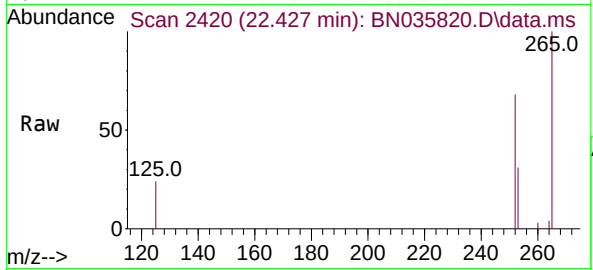
Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218



Tgt Ion:252 Resp: 2679

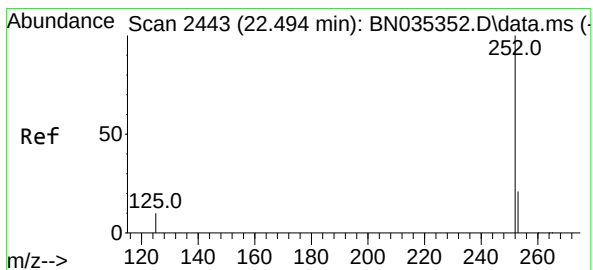
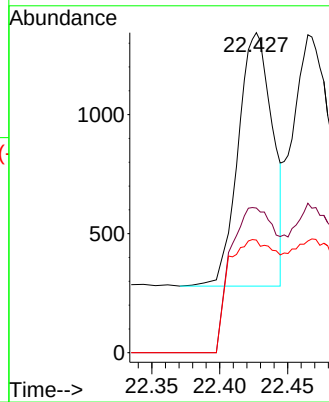
Ion	Ratio	Lower	Upper
252	100		
253	45.2	19.6	29.4
125	35.2	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

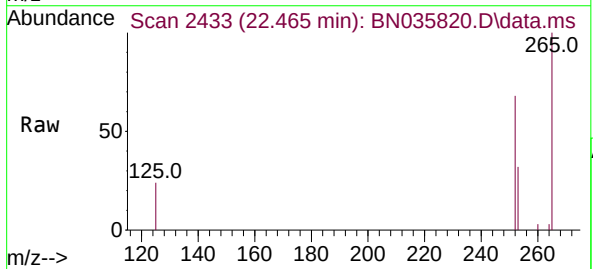
Concen: 0.101 ng m

RT: 22.465 min Scan# 2433

Delta R.T. -0.006 min

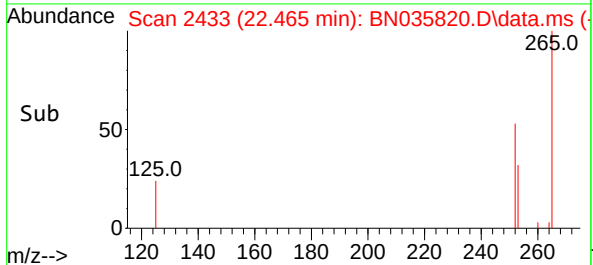
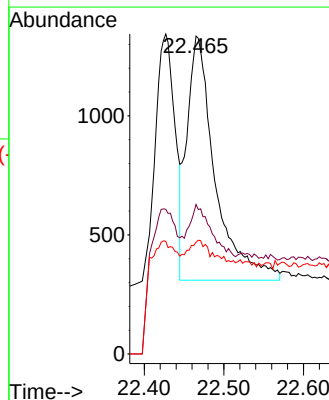
Lab File: BN035820.D

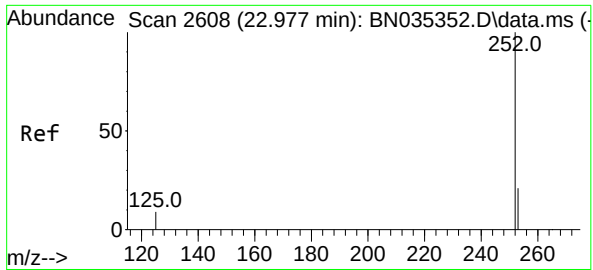
Acq: 24 Dec 2024 14:19



Tgt Ion:252 Resp: 2525

Ion	Ratio	Lower	Upper
252	100		
253	47.0	19.5	29.3
125	35.1	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.074 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035820.D

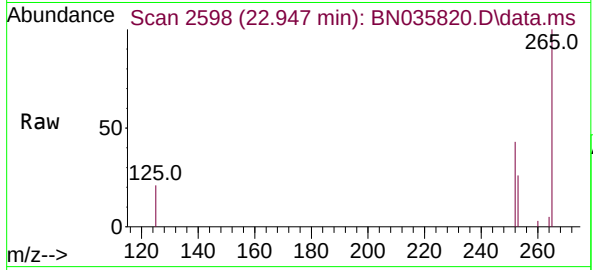
Acq: 24 Dec 2024 14:19

Instrument :

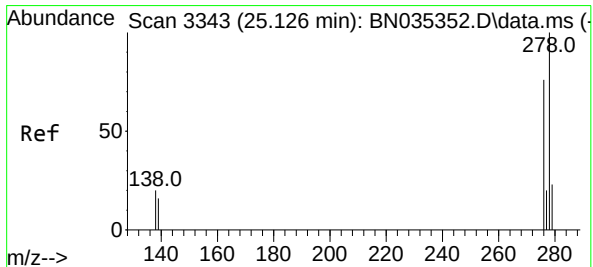
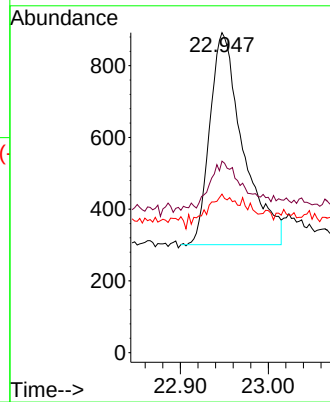
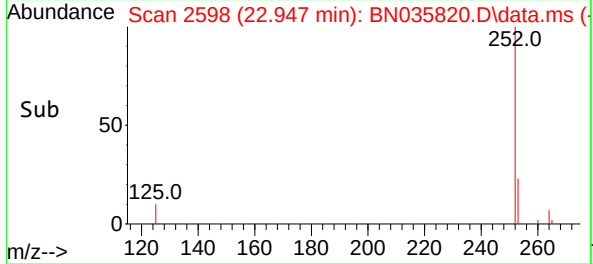
BNA_N

ClientSampleId :

RW10-MW01S-20241218



Tgt Ion:	252	Resp:	155
Ion	Ratio	Lower	Upper
252	100		
253	59.9	20.2	30.4
125	49.6	10.9	16.3

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

#40

Dibenzo(a,h)anthracene

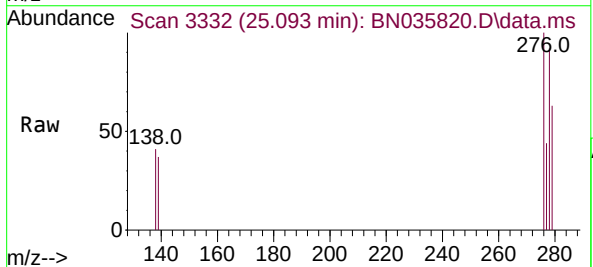
Concen: 0.061 ng

RT: 25.093 min Scan# 3332

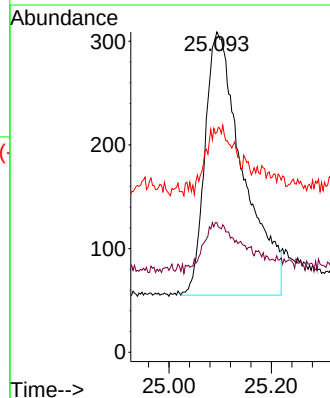
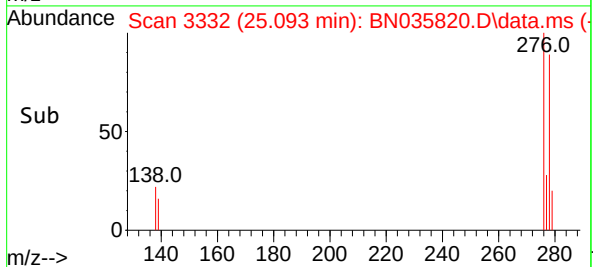
Delta R.T. 0.011 min

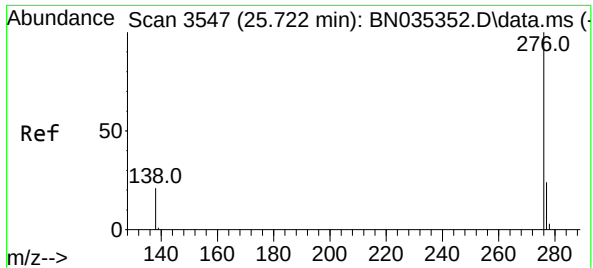
Lab File: BN035820.D

Acq: 24 Dec 2024 14:19



Tgt Ion:	278	Resp:	1312
Ion	Ratio	Lower	Upper
278	100		
139	40.5	14.2	21.4
279	68.6	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.067 ng

RT: 25.675 min Scan# 3531

Delta R.T. -0.003 min

Lab File: BN035820.D

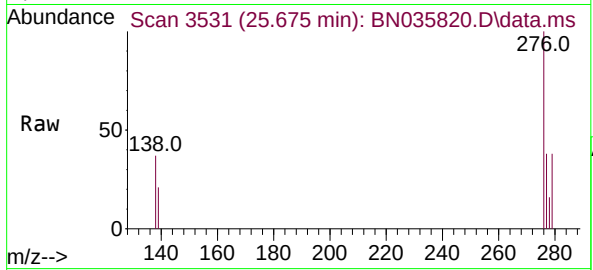
Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218



Tgt Ion:276 Resp: 151

Ion Ratio Lower Upper

276 100

277 38.0 19.9 29.9

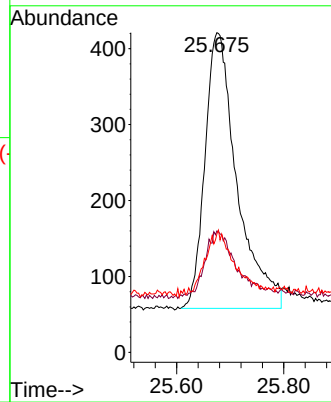
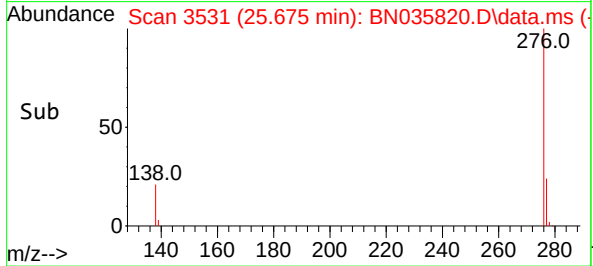
138 37.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01D-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN035823.D	1	12/23/24 13:29	12/24/24 16:06	PB165828

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	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3350	7.264				
1146-65-2	Naphthalene-d8	8450	10.009				
15067-26-2	Acenaphthene-d10	5460	13.925				
1517-22-2	Phenanthrene-d10	11800	16.698				
1719-03-5	Chrysene-d12	9970	20.947				
1520-96-3	Perylene-d12	9570	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\BN122324\
 Data File : BN035823.D
 Acq On : 24 Dec 2024 16:06
 Operator : RC/JU
 Sample : P5376-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01D-20241218

Manual Integrations
APPROVED

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

Quant Time: Dec 24 23:19:31 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	3352	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8445	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5463	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11816	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9968	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9568	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	842	0.100	ng	-0.01
5) Phenol-d6	6.477	99	482	0.048	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1955m	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4421	0.335	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	799	0.206	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	6936	0.336	ng	-0.01
27) Fluoranthene-d10	18.747	212	13295	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	9869	0.502	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	964	0.043	ng	# 77
12) 2-Methylnaphthalene	11.692	142	597	0.037	ng	# 76
16) Acenaphthylene	13.636	152	1063	0.046	ng	# 93
17) Acenaphthene	13.989	154	693	0.045	ng	99
18) Fluorene	14.994	166	956	0.044	ng	96
25) Phenanthrene	16.736	178	2183	0.067	ng	98
26) Anthracene	16.835	178	1383	0.047	ng	98
28) Fluoranthene	18.780	202	2251	0.051	ng	# 96
30) Pyrene	19.147	202	2504	0.068	ng	98
32) Benzo(a)anthracene	20.929	228	1508	0.043	ng	# 91
33) Chrysene	20.983	228	2026	0.056	ng	# 93
34) Bis(2-ethylhexyl)phtha...	20.893	149	1059	0.077	ng	# 95
36) Indeno(1,2,3-cd)pyrene	25.073	276	1384	0.037	ng	# 82
37) Benzo(b)fluoranthene	22.424	252	1754	0.050	ng	# 28
38) Benzo(k)fluoranthene	22.465	252	1557	0.045	ng	# 29
39) Benzo(a)pyrene	22.945	252	959	0.033	ng	# 1
40) Dibenzo(a,h)anthracene	25.085	278	1067	0.036	ng	# 11
41) Benzo(g,h,i)perylene	25.675	276	1130	0.037	ng	# 64

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

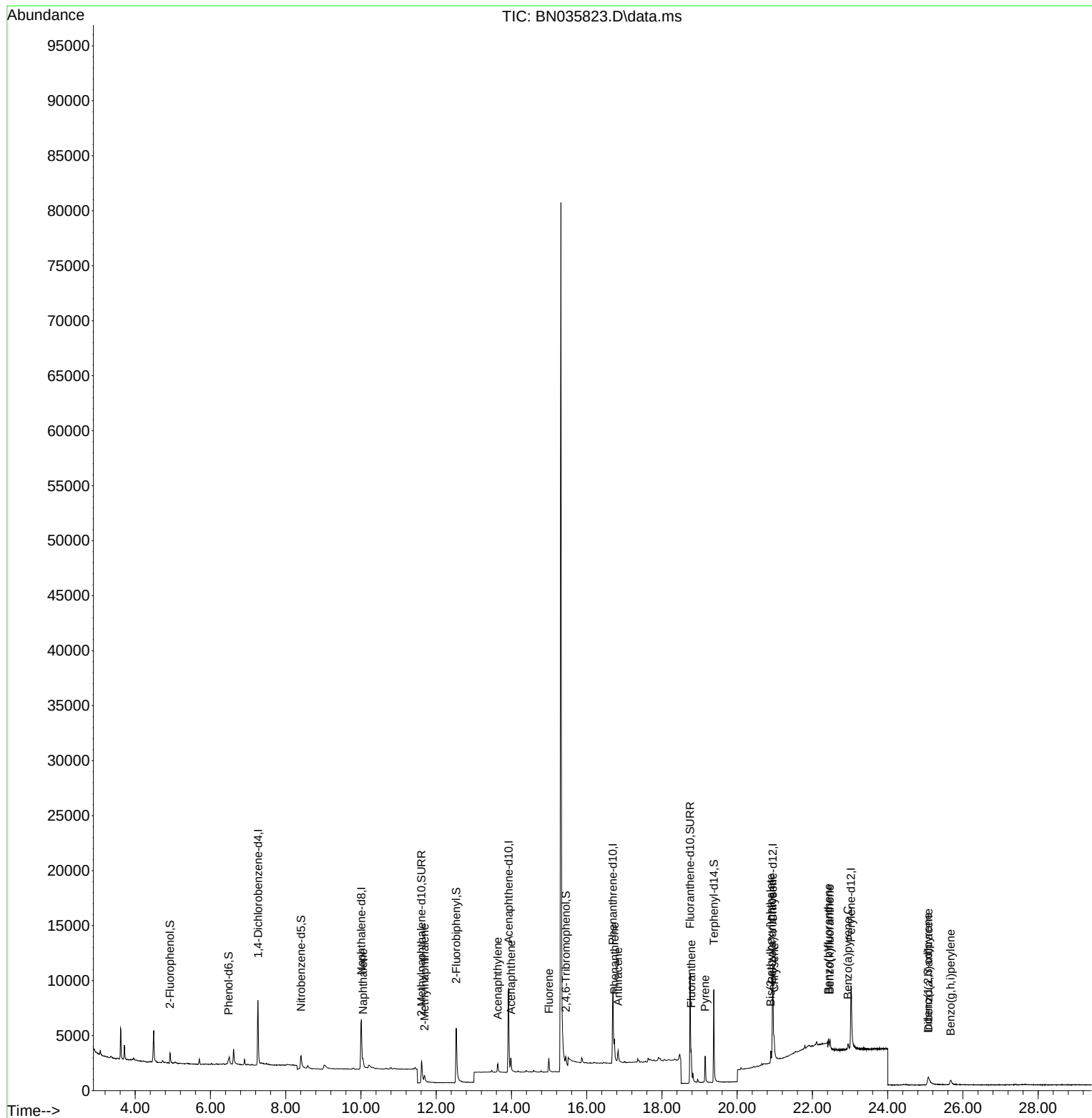
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Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

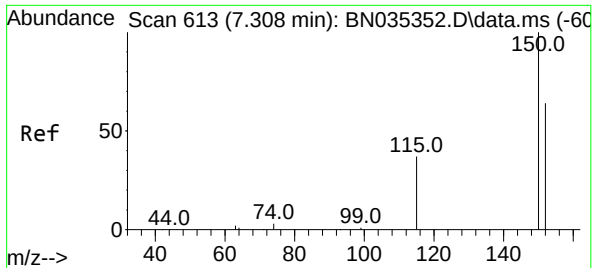
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
APPROVED

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

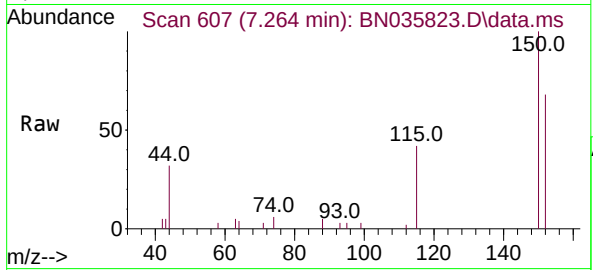
Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

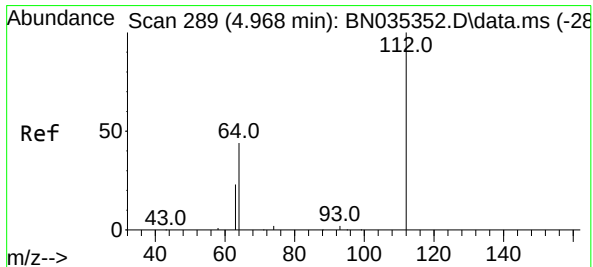
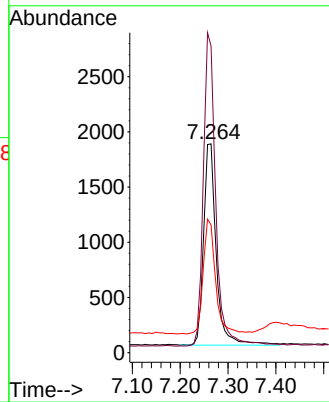
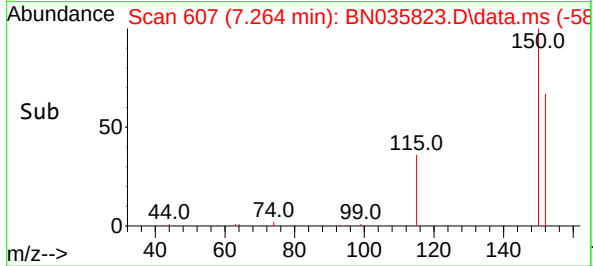
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:152 Resp: 3352
Ion Ratio Lower Upper
152 100
150 146.7 124.0 186.0
115 61.2 49.6 74.4

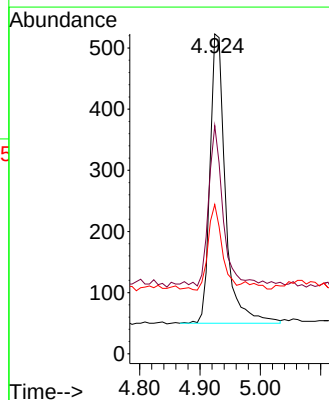
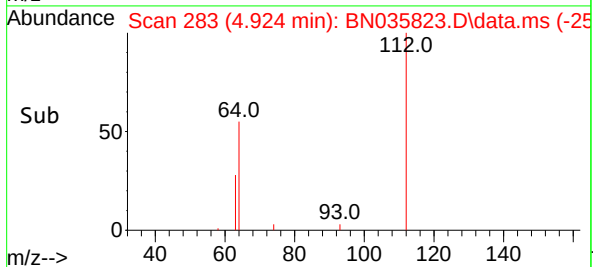
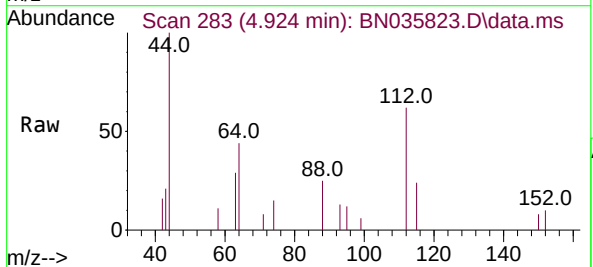
Manual Integrations
APPROVED

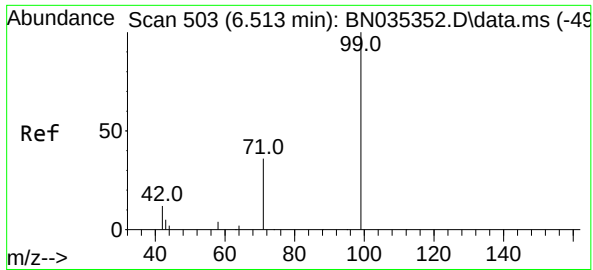
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

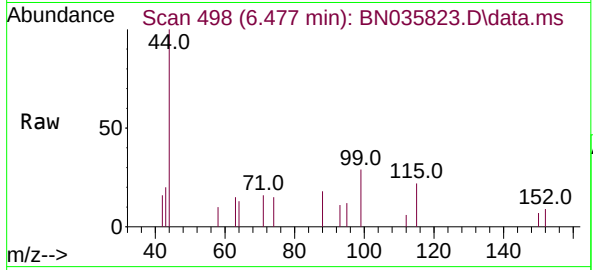
Tgt Ion:112 Resp: 842
Ion Ratio Lower Upper
112 100
64 52.5 39.8 59.8
63 27.2 21.0 31.6





#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

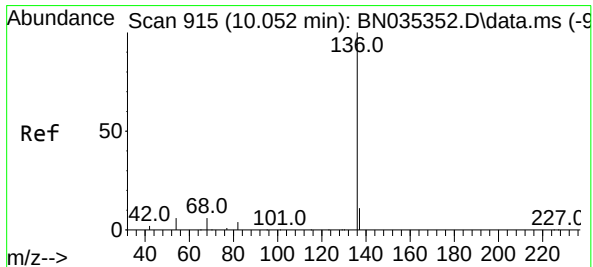
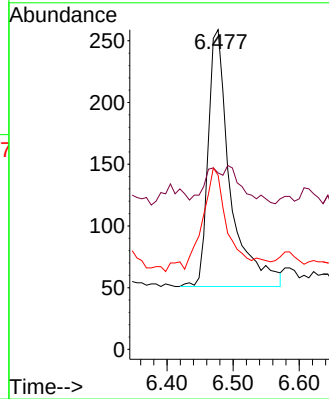
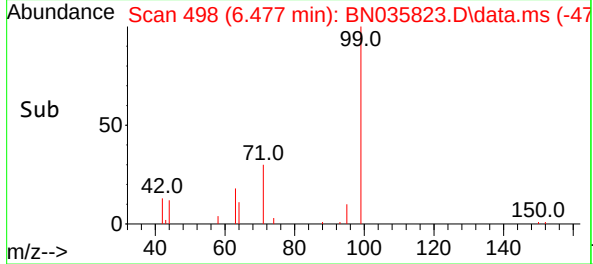
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion: 99 Resp: 482
Ion Ratio Lower Upper
99 100
42 10.2 11.4 17.2
71 41.9 29.3 43.9

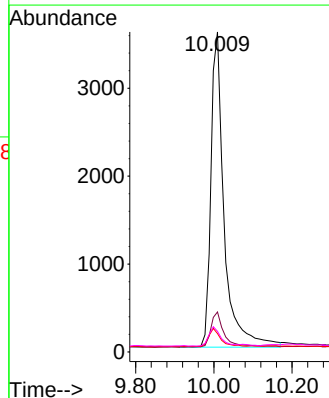
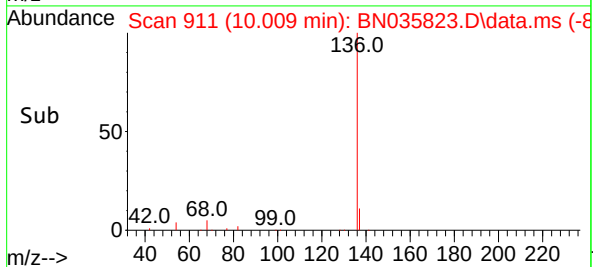
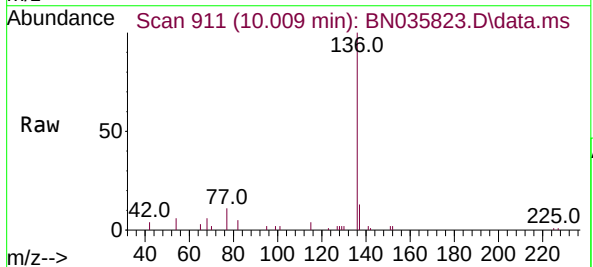
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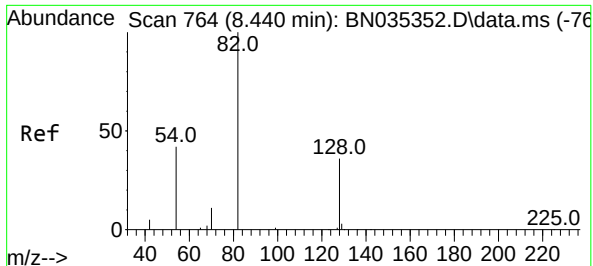
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

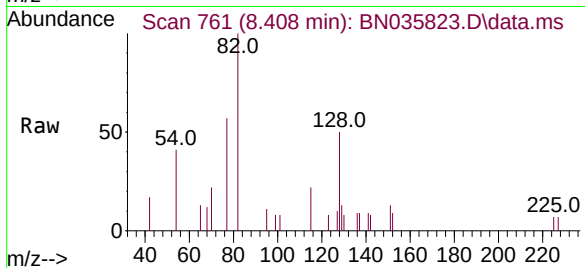
Tgt Ion:136 Resp: 8445
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 5.7 6.1 9.1#
68 6.5 6.4 9.6





#8
Nitrobenzene-d5
Concen: 0.379 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

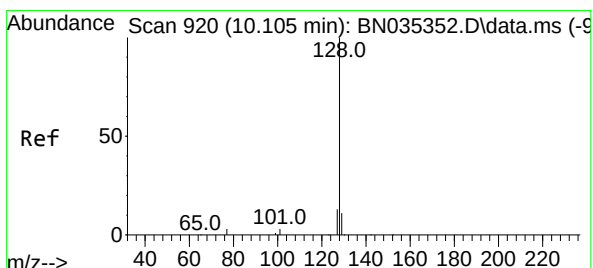
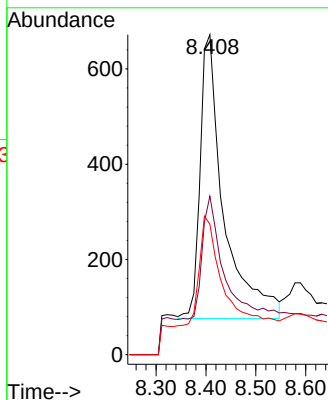
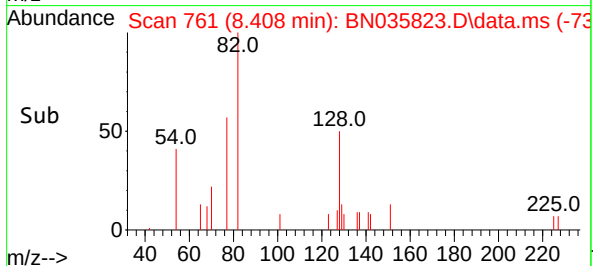
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion: 82 Resp: 195
Ion Ratio Lower Upper
82 100
128 49.6 33.4 50.0
54 40.8 36.7 55.1

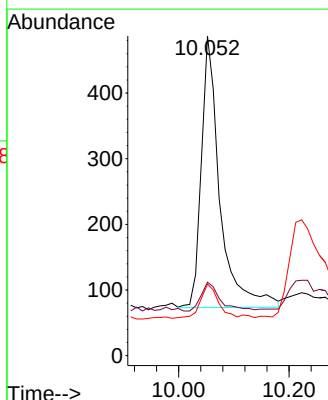
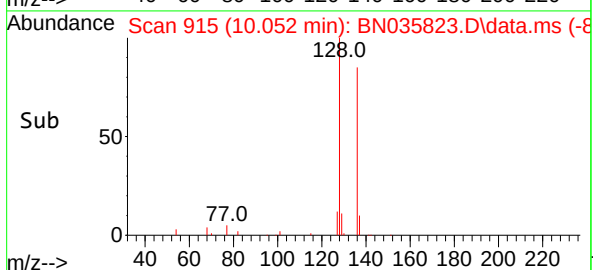
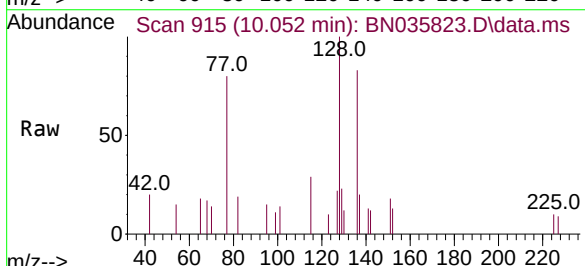
Manual Integrations
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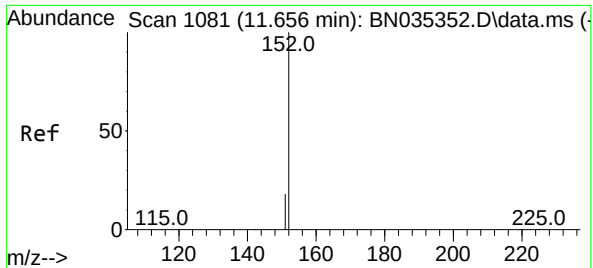
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#9
Naphthalene
Concen: 0.043 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

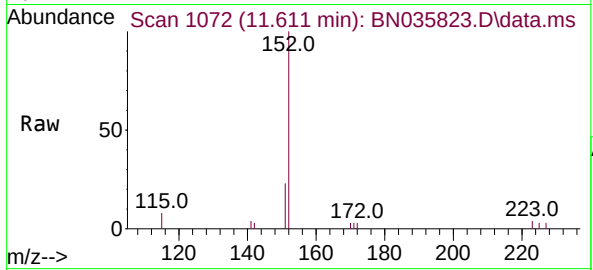
Tgt Ion:128 Resp: 964
Ion Ratio Lower Upper
128 100
129 23.0 9.8 14.6#
127 22.4 11.4 17.2#





#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

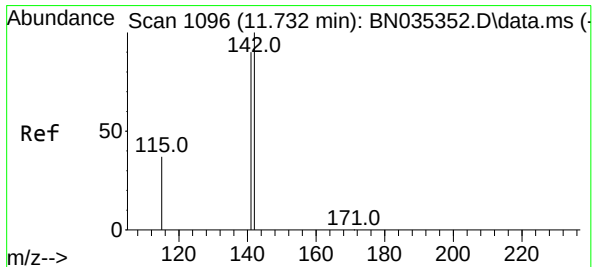
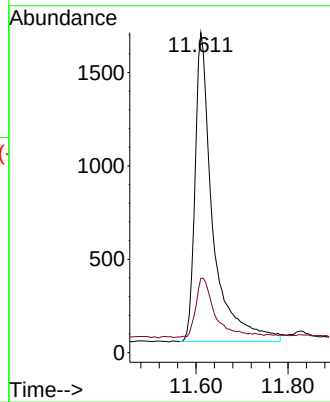
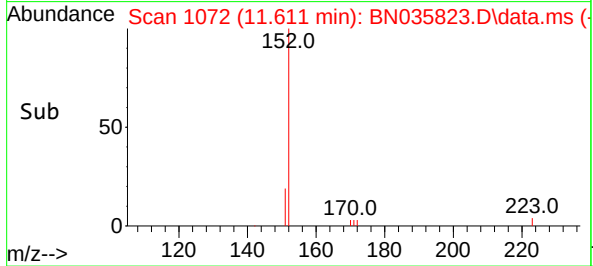
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:152 Resp: 442
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

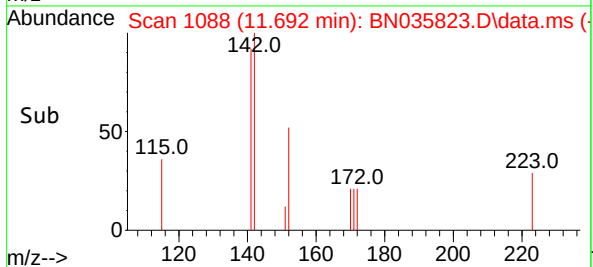
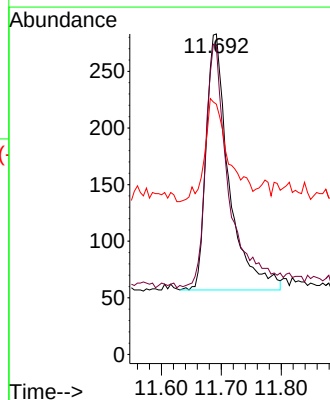
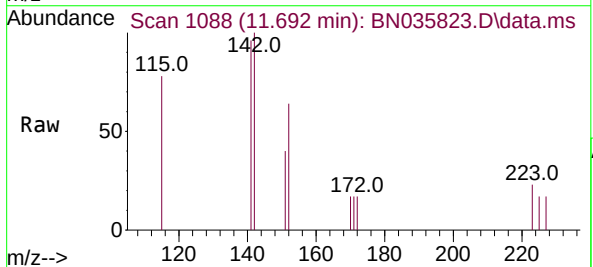
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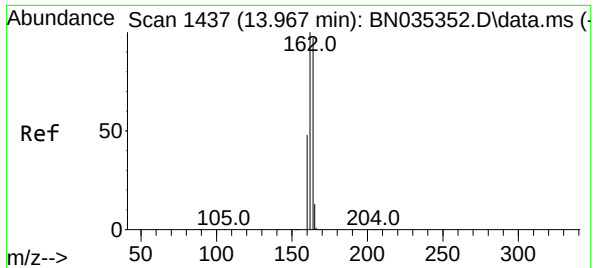
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

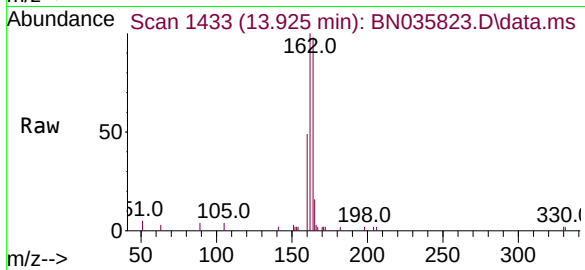
Tgt Ion:142 Resp: 597
Ion Ratio Lower Upper
142 100
141 96.1 72.2 108.4
115 78.1 31.4 47.0#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

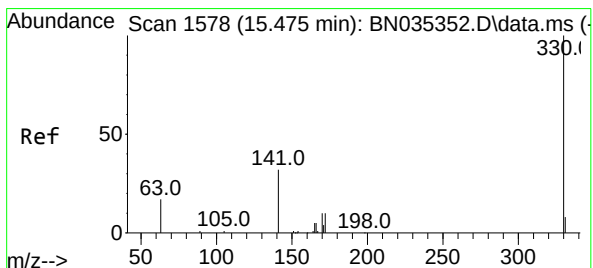
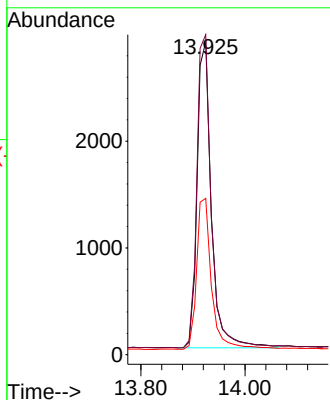
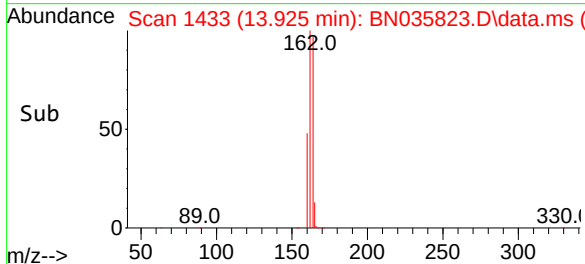
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:164 Resp: 546
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 50.0 40.1 60.1

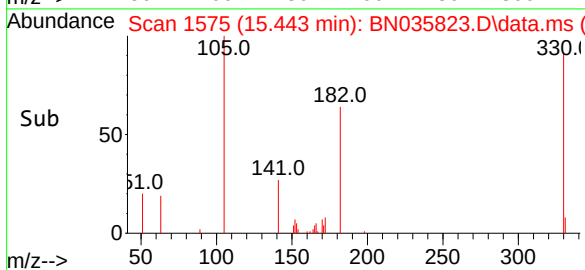
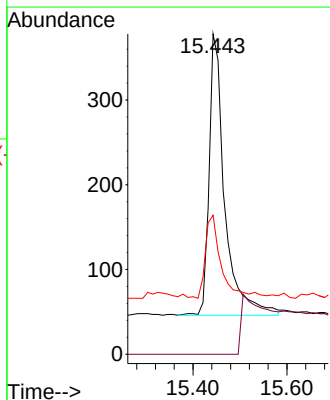
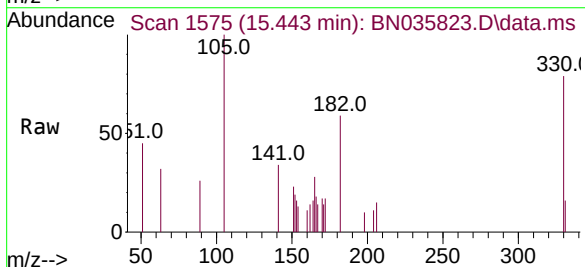
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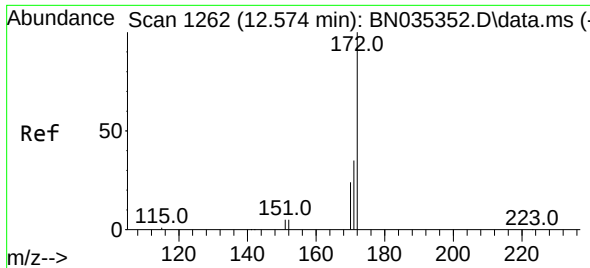
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

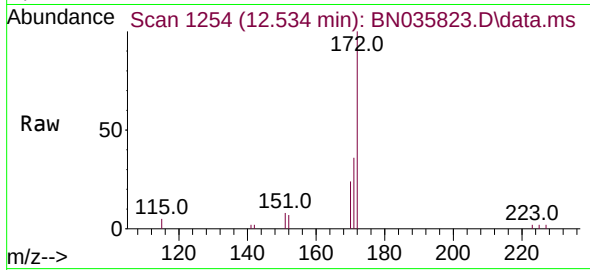
Tgt Ion:330 Resp: 799
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 28.9 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.534 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

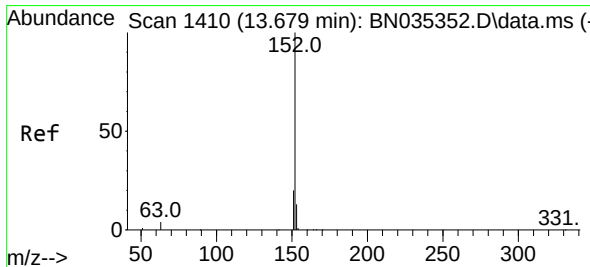
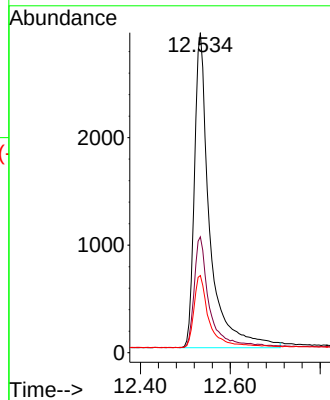
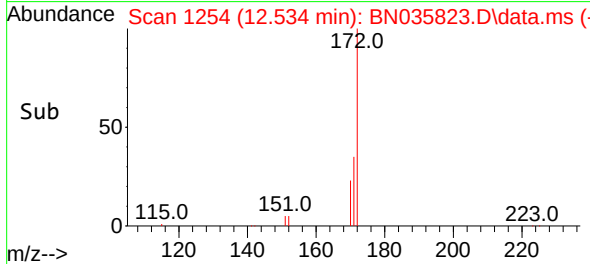
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:172 Resp: 6930
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.1 19.8 29.8

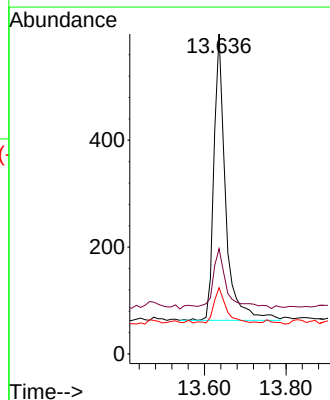
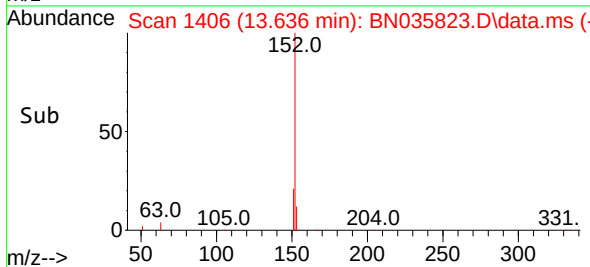
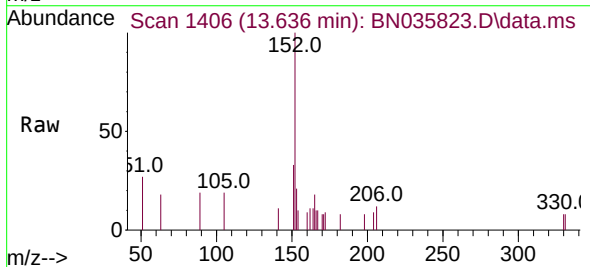
Manual Integrations
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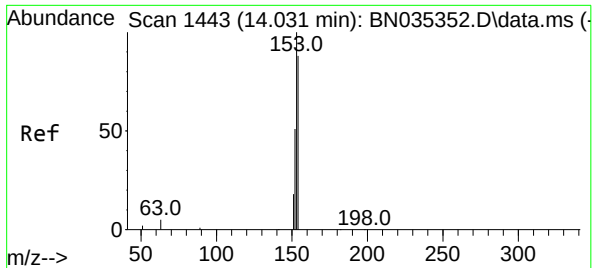
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.046 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

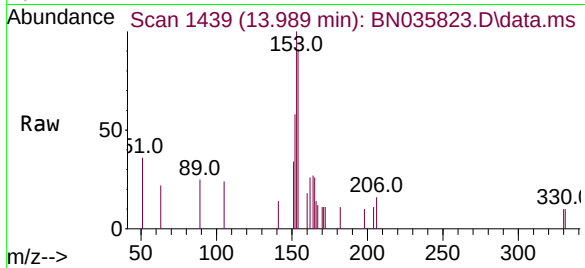
Tgt Ion:152 Resp: 1063
Ion Ratio Lower Upper
152 100
151 24.4 16.2 24.2#
153 14.4 10.4 15.6





#17
Acenaphthene
Concen: 0.045 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

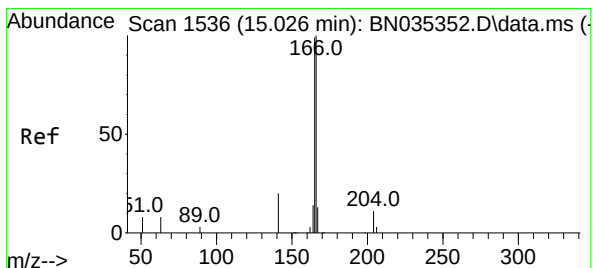
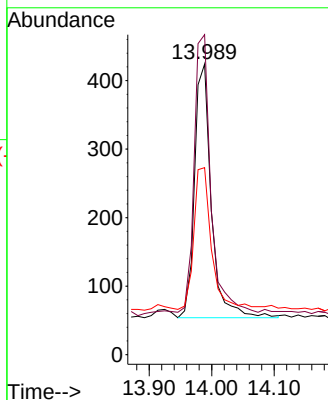
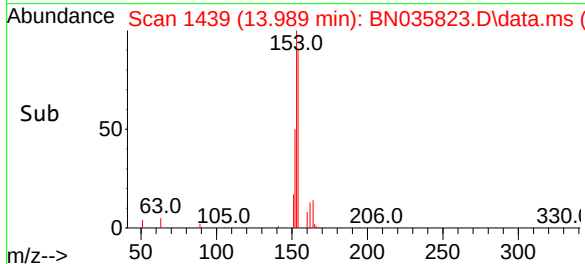
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:154 Resp: 69
Ion Ratio Lower Upper
154 100
153 115.9 92.6 139.0
152 58.9 49.0 73.6

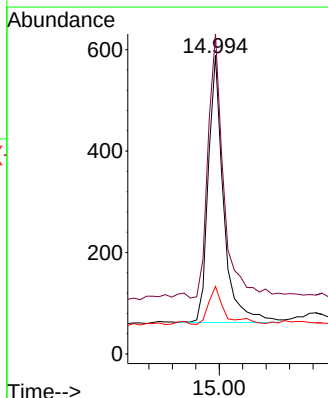
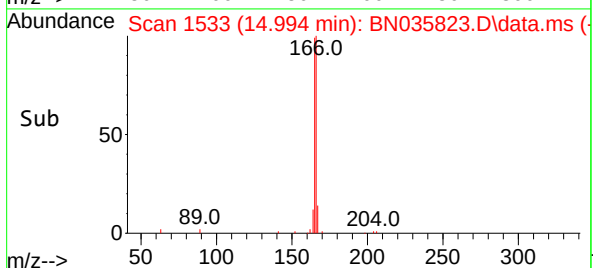
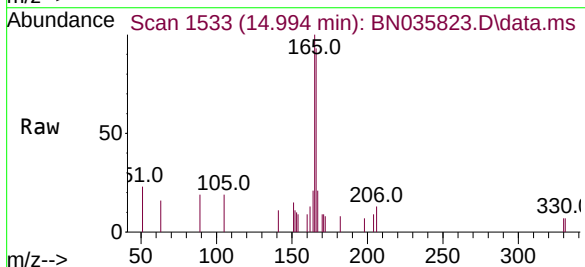
Manual Integrations
APPROVED

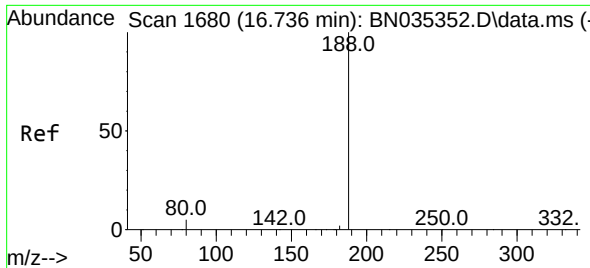
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.044 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:166 Resp: 956
Ion Ratio Lower Upper
166 100
165 103.7 79.7 119.5
167 14.9 10.8 16.2





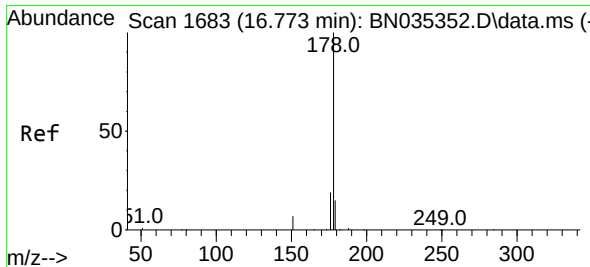
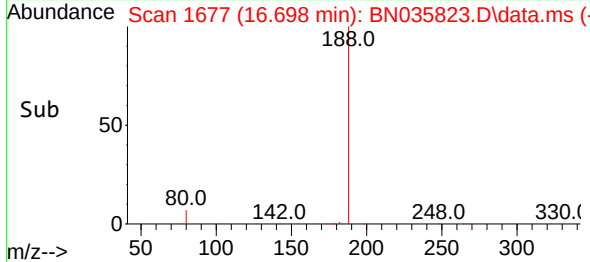
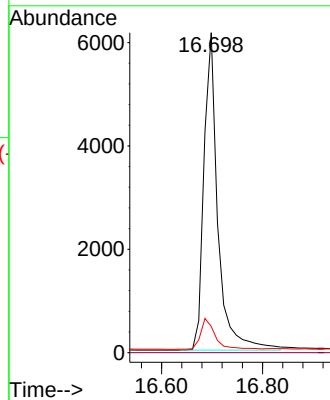
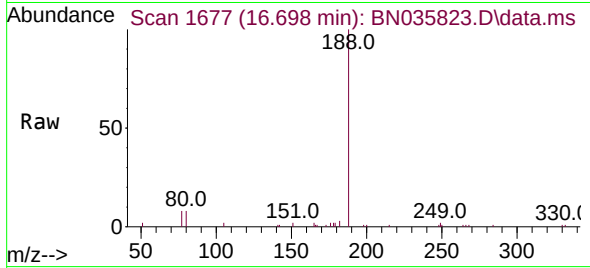
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 11810
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:188 Resp: 11810
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.2 4.6 6.8

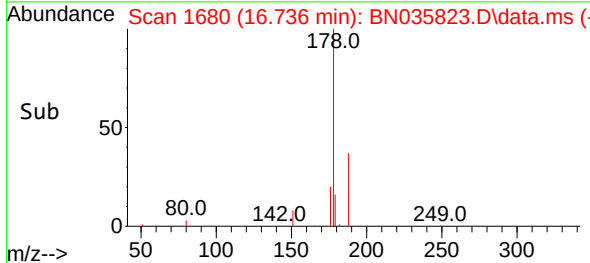
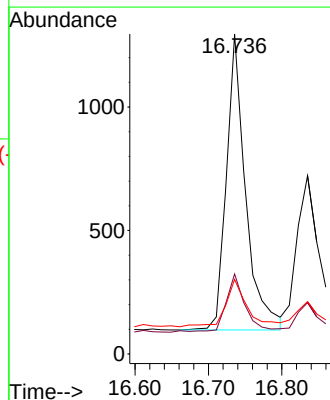
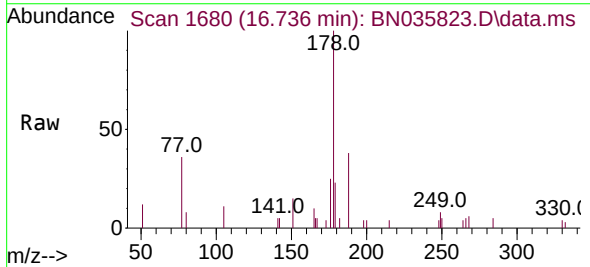
Manual Integrations
APPROVED

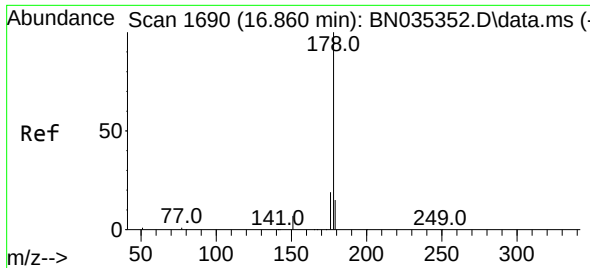
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#25
Phenanthrene
Concen: 0.067 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:178 Resp: 2183
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 16.8 12.3 18.5





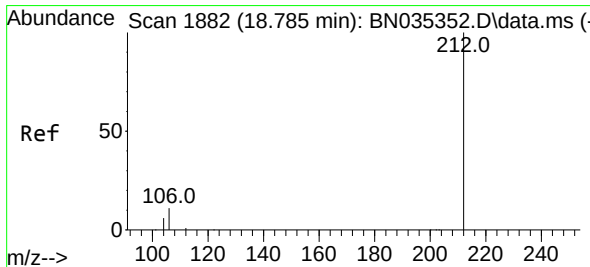
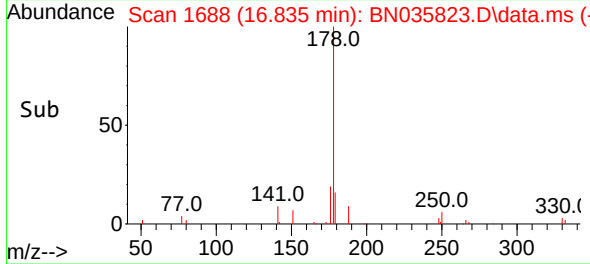
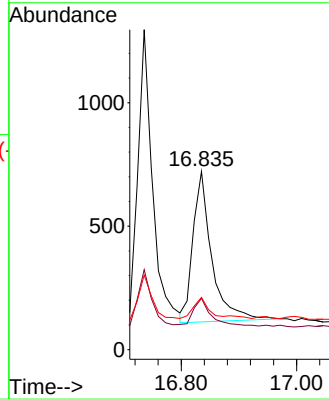
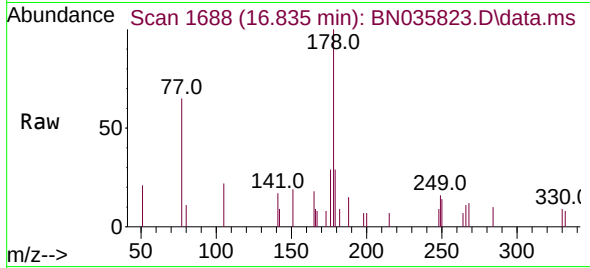
#26
Anthracene
Concen: 0.047 ng
RT: 16.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:178 Resp: 138
Ion Ratio Lower Upper
178 100
176 18.0 15.0 22.6
179 14.6 12.6 18.8

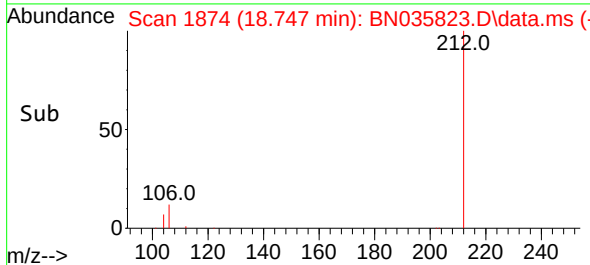
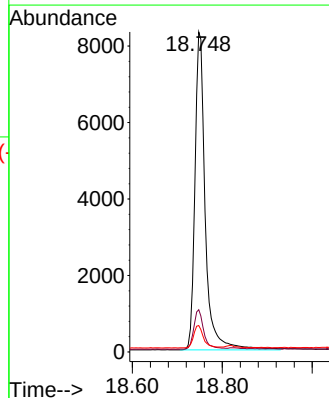
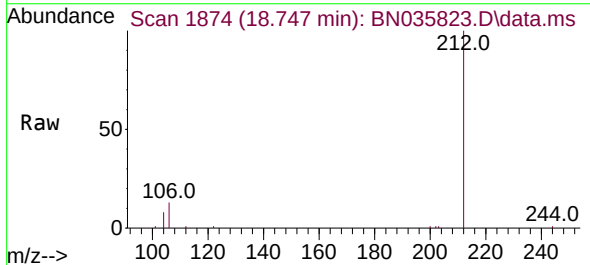
Manual Integrations
APPROVED

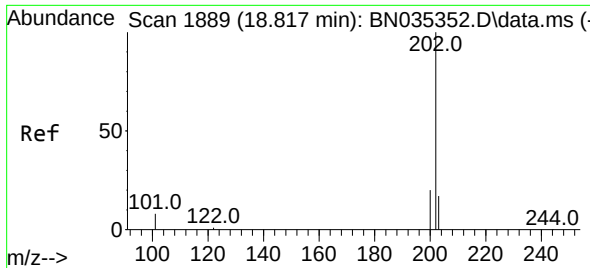
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

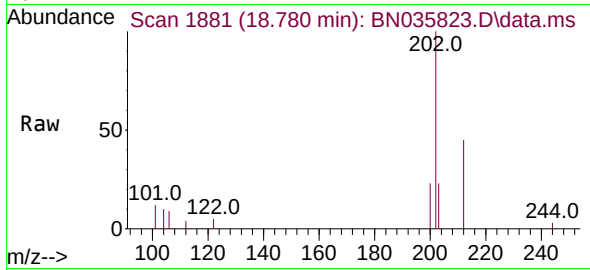
Tgt Ion:212 Resp: 13295
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 6.7 5.3 7.9





#28
Fluoranthene
Concen: 0.051 ng
RT: 18.780 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

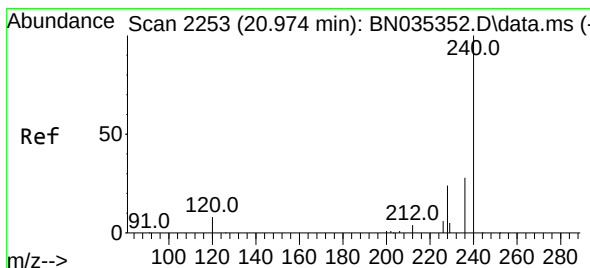
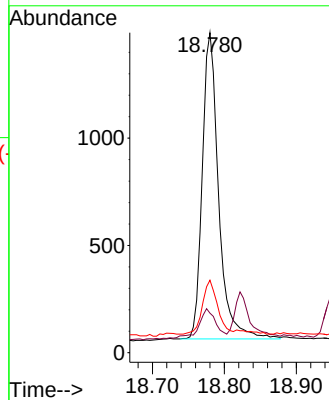
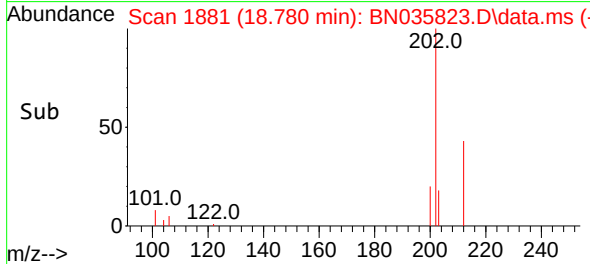
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:202 Resp: 225
Ion Ratio Lower Upper
202 100
101 11.8 7.4 11.0
203 16.3 13.7 20.5

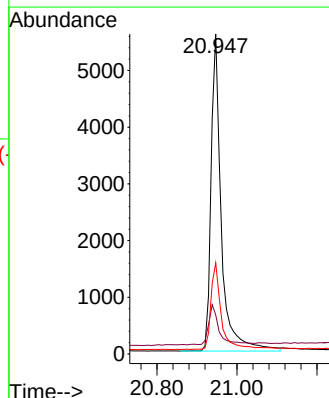
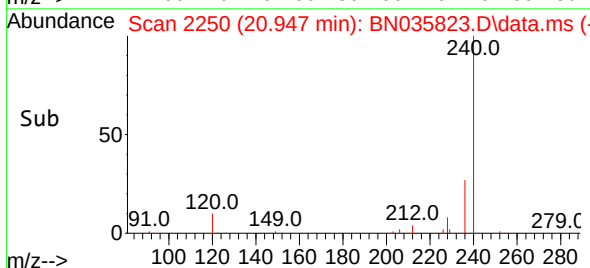
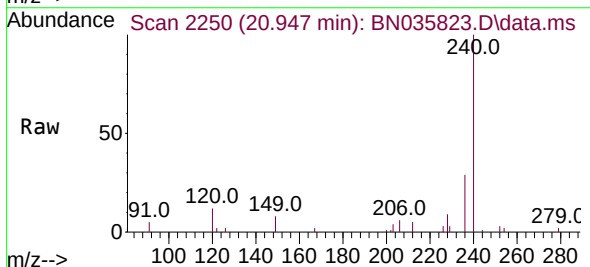
Manual Integrations
APPROVED

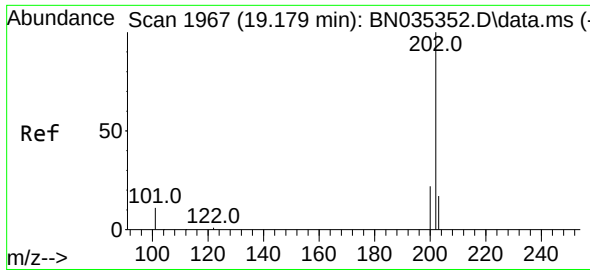
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

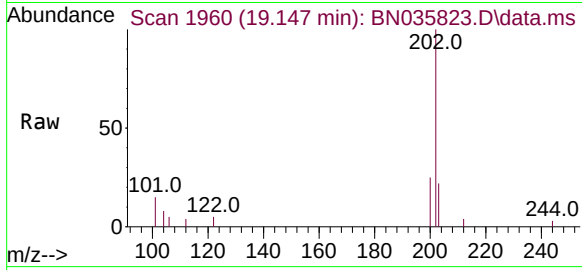
Tgt Ion:240 Resp: 9968
Ion Ratio Lower Upper
240 100
120 12.2 7.9 11.9
236 28.5 22.9 34.3





#30
Pyrene
Concen: 0.068 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

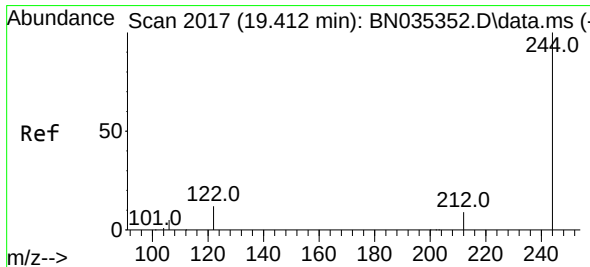
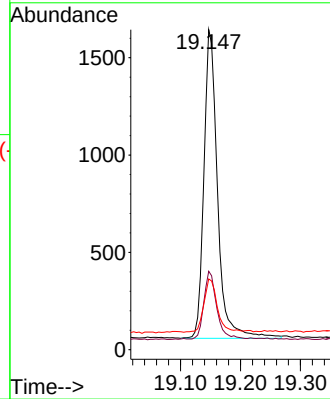
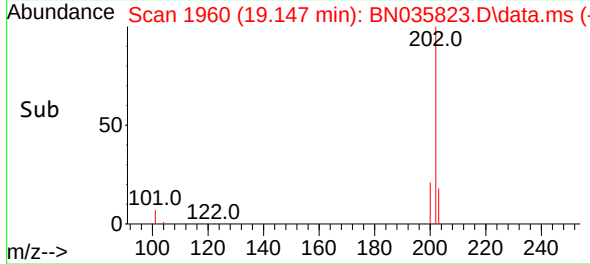
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:202 Resp: 2504
Ion Ratio Lower Upper
202 100
200 20.4 17.0 25.4
203 17.0 14.3 21.5

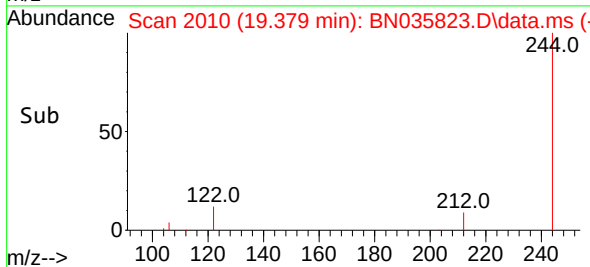
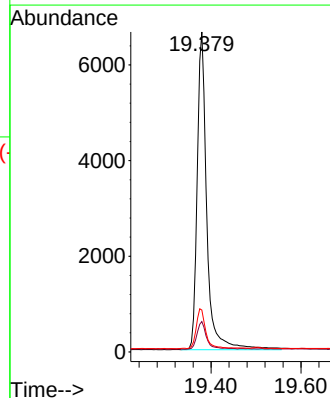
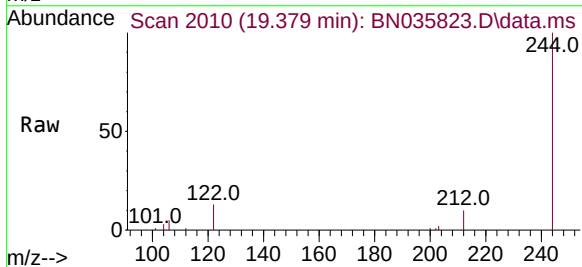
Manual Integrations
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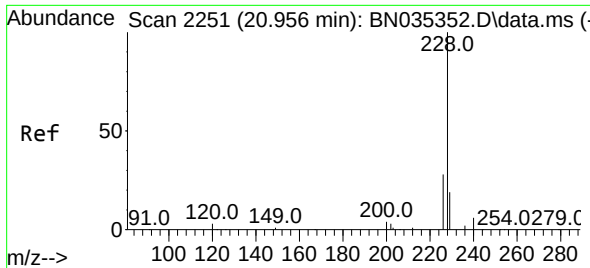
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#31
Terphenyl-d14
Concen: 0.502 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

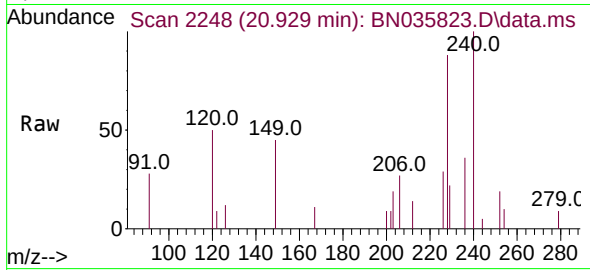
Tgt Ion:244 Resp: 9869
Ion Ratio Lower Upper
244 100
212 9.5 8.1 12.1
122 13.1 10.3 15.5





#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 20.929 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

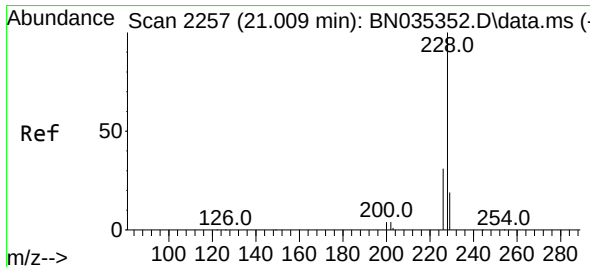
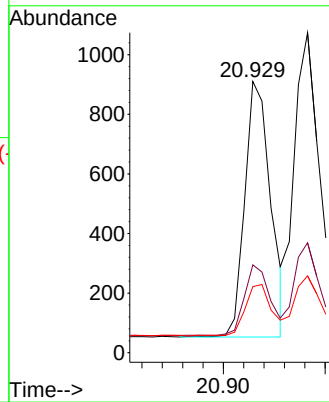
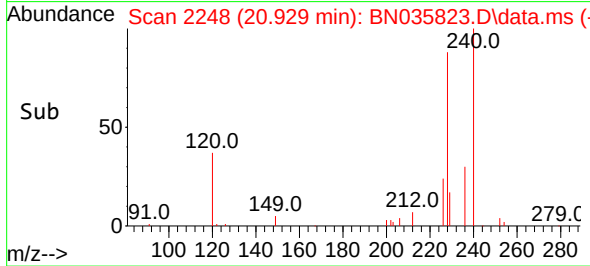
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:228 Resp: 1500
Ion Ratio Lower Upper
228 100
226 32.4 22.5 33.7
229 24.4 15.8 23.8

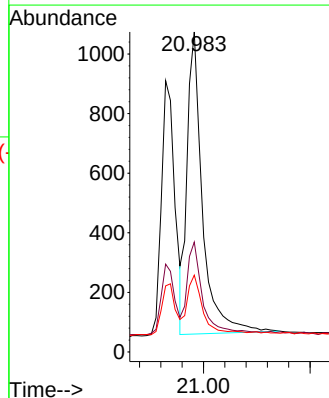
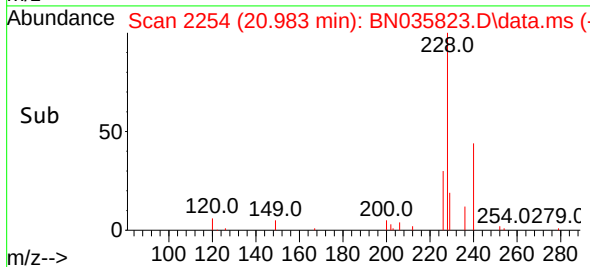
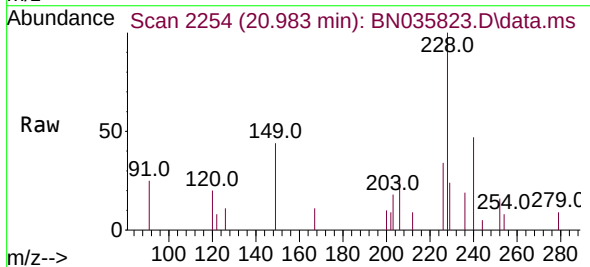
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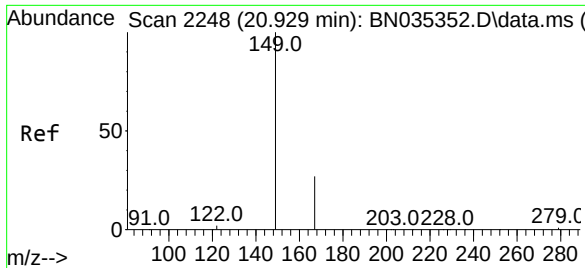
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#33
Chrysene
Concen: 0.056 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

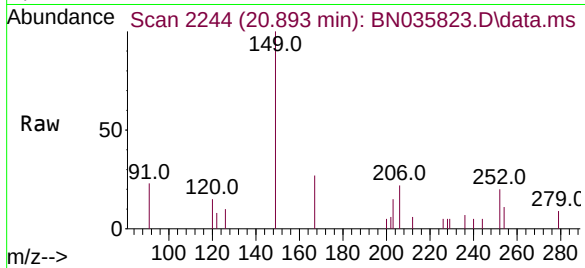
Tgt Ion:228 Resp: 2026
Ion Ratio Lower Upper
228 100
226 34.4 24.6 37.0
229 24.0 15.9 23.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

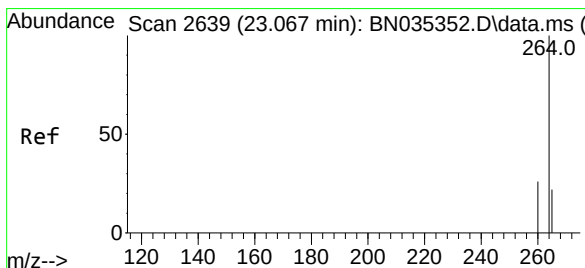
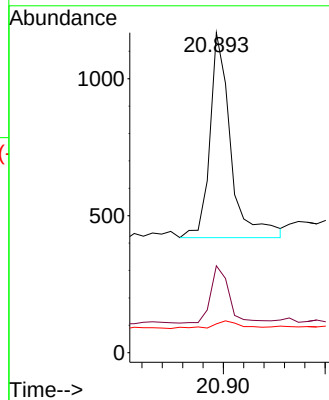
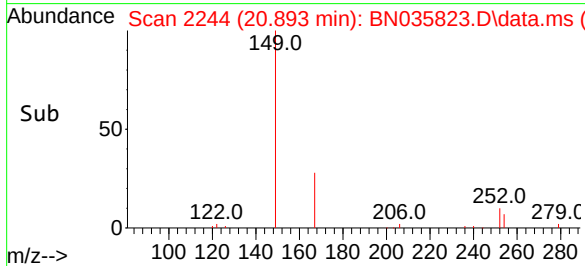
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:149 Resp: 1059
Ion Ratio Lower Upper
149 100
167 24.9 22.2 33.4
279 5.1 2.7 4.1

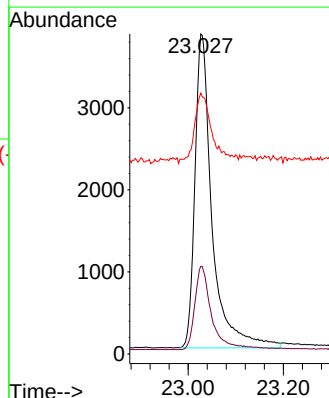
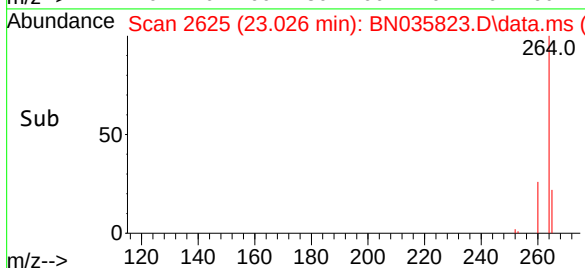
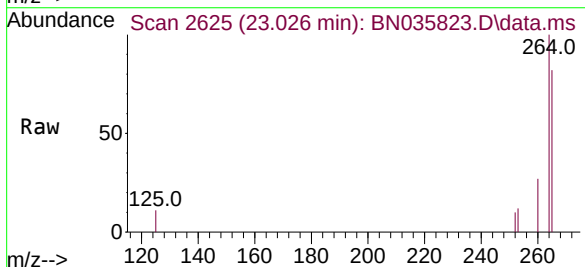
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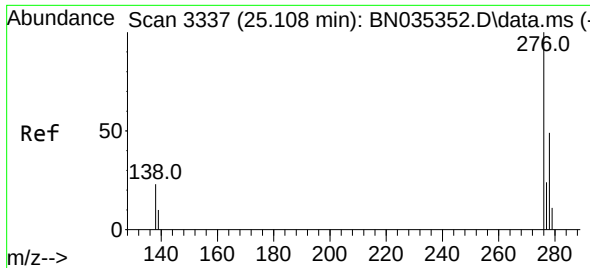
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:264 Resp: 9568
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 81.5 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.037 ng

RT: 25.073 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

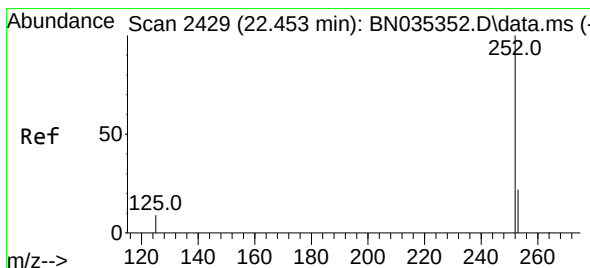
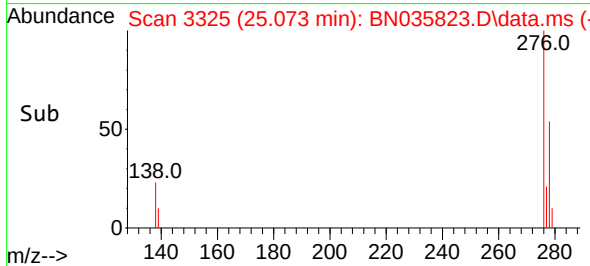
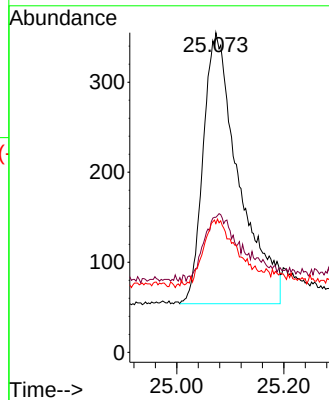
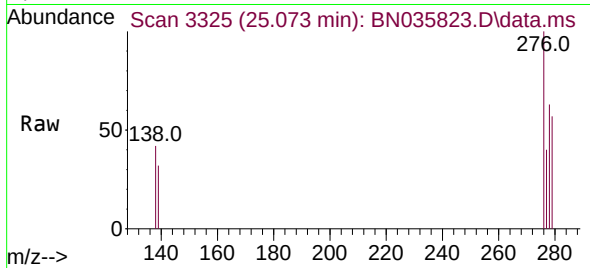
Tgt Ion:	276	Resp:	1384
Ion Ratio	Lower	Upper	
276	100		
138	22.6	19.4	29.0
277	8.7	19.8	29.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#37

Benzo(b)fluoranthene

Concen: 0.050 ng

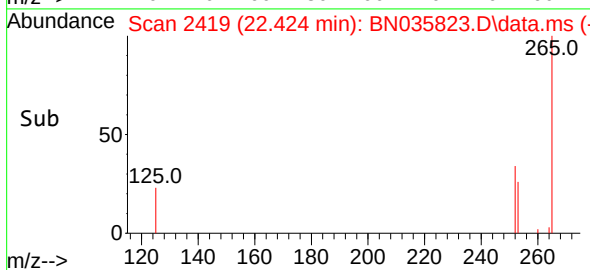
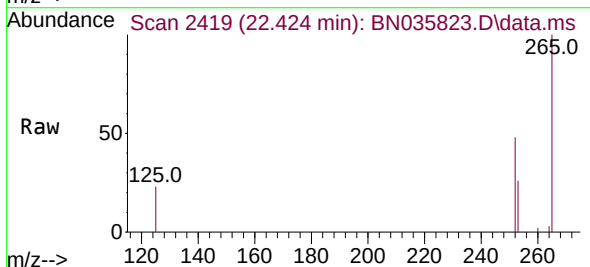
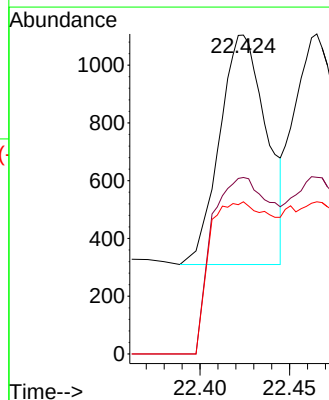
RT: 22.424 min Scan# 2419

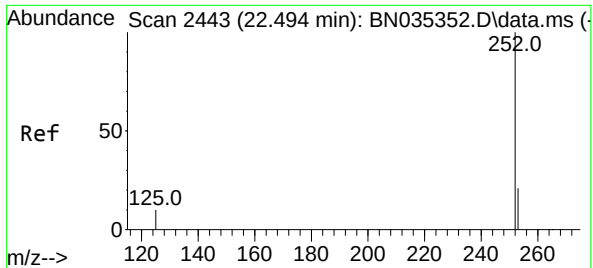
Delta R.T. -0.006 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

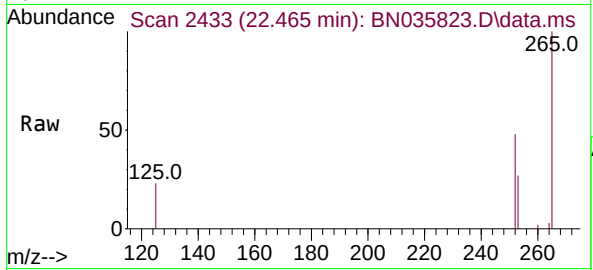
Tgt Ion:	252	Resp:	1754
Ion Ratio	Lower	Upper	
252	100		
253	55.3	19.6	29.4#
125	47.7	9.6	14.4#





#38
Benzo(k)fluoranthene
Concen: 0.045 ng
RT: 22.465 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

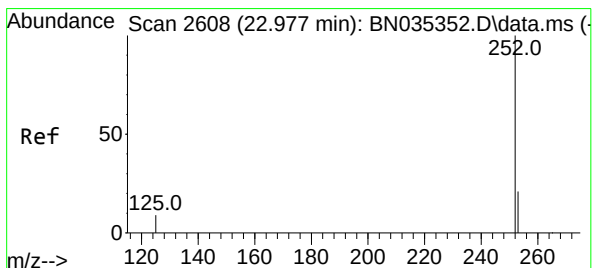
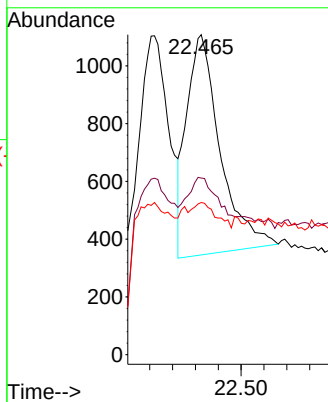
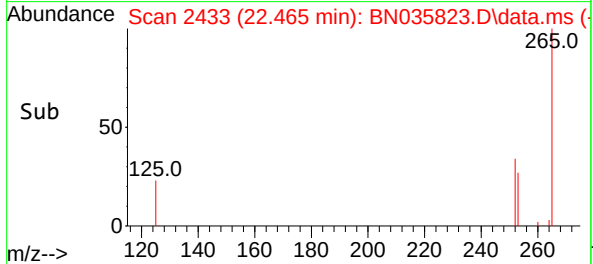
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218



Tgt Ion:252 Resp: 155
Ion Ratio Lower Upper
252 100
253 55.2 19.5 29.3#
125 47.6 10.2 15.4#

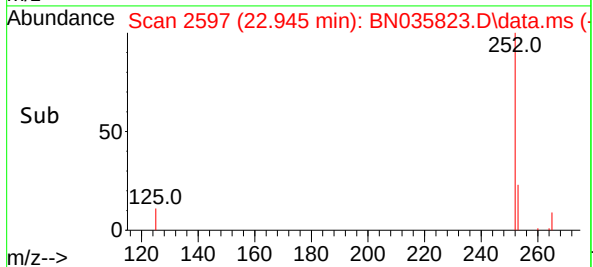
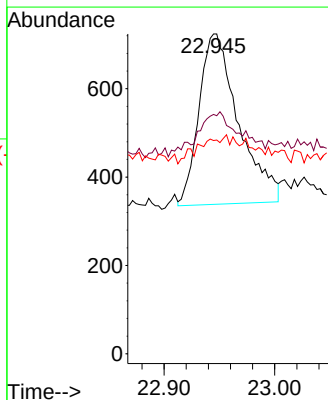
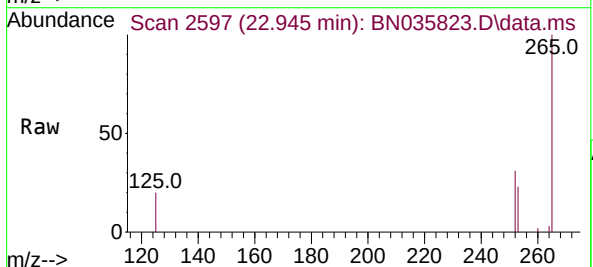
Manual Integrations
APPROVED

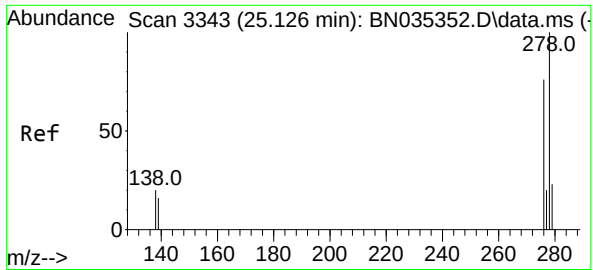
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#39
Benzo(a)pyrene
Concen: 0.033 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 959
Ion Ratio Lower Upper
252 100
253 74.9 20.2 30.4#
125 66.7 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 0.036 ng

RT: 25.085 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN035823.D

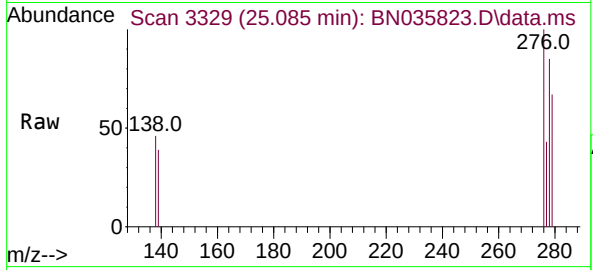
Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218



Tgt Ion:278 Resp: 106

Ion Ratio Lower Upper

278 100

139 46.2 14.2 21.4

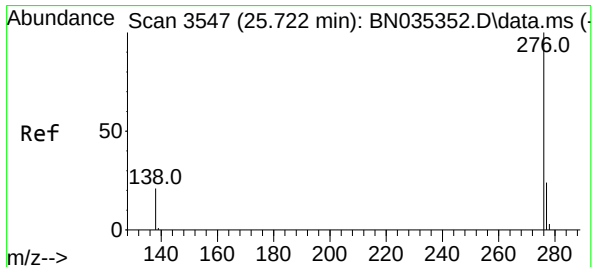
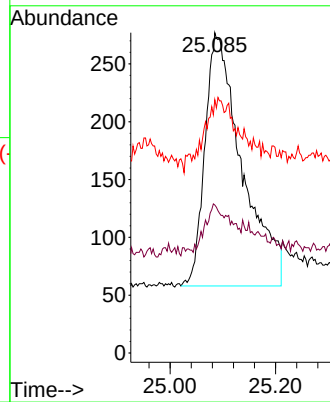
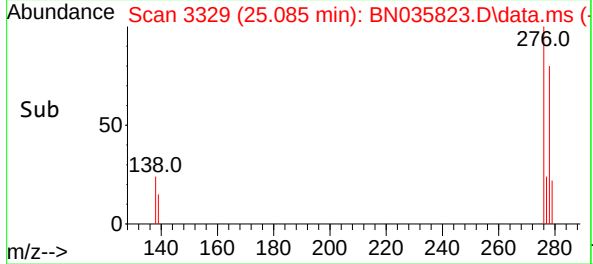
279 79.1 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#41

Benzo(g,h,i)perylene

Concen: 0.037 ng

RT: 25.675 min Scan# 3531

Delta R.T. -0.003 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

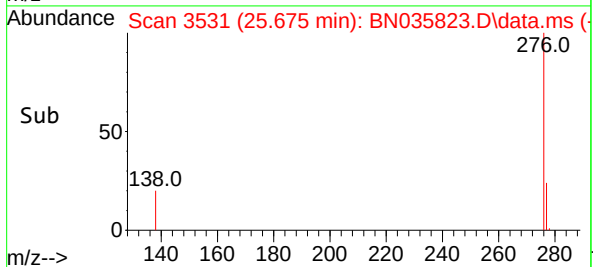
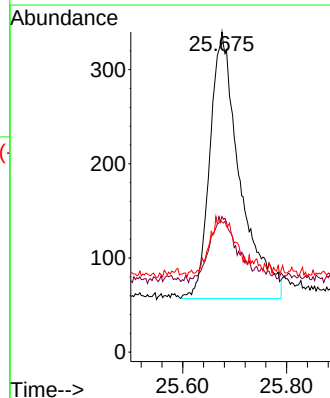
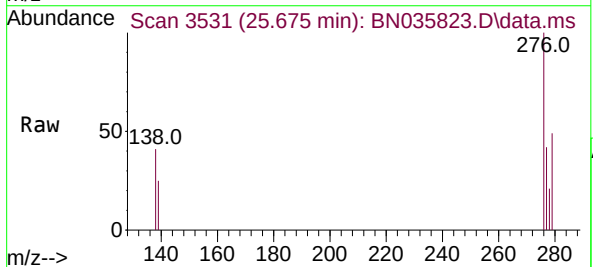
Tgt Ion:276 Resp: 1130

Ion Ratio Lower Upper

276 100

277 42.4 19.9 29.9#

138 40.6 17.8 26.8#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10A-MW01S-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-11	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN035824.D	1	12/23/24 13:29	12/24/24 16:42	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		130%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3540	7.257				
1146-65-2	Naphthalene-d8	8580	10.009				
15067-26-2	Acenaphthene-d10	5530	13.925				
1517-22-2	Phenanthrene-d10	11300	16.698				
1719-03-5	Chrysene-d12	9270	20.947				
1520-96-3	Perylene-d12	9120	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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035824.D
 Acq On : 24 Dec 2024 16:42
 Operator : RC/JU
 Sample : P5376-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01S-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:19:48 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	3542	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8575	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5533	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11307	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9270	0.400	ng	0.00
35) Perylene-d12	23.029	264	9119	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	827	0.093	ng	-0.01
5) Phenol-d6	6.477	99	397	0.037	ng	-0.01
8) Nitrobenzene-d5	8.397	82	1948m	0.372	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4576	0.341	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	766	0.195	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7209	0.345	ng	-0.02
27) Fluoranthene-d10	18.747	212	12883	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	9501	0.520	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	493	0.146	ng	# 73
9) Naphthalene	10.052	128	803	0.036	ng	# 72
12) 2-Methylnaphthalene	11.687	142	502	0.031	ng	# 79
16) Acenaphthylene	13.636	152	877	0.038	ng	96
17) Acenaphthene	13.978	154	539	0.035	ng	98
18) Fluorene	14.994	166	778	0.035	ng	96
25) Phenanthrene	16.736	178	1755	0.057	ng	100
26) Anthracene	16.835	178	1113	0.040	ng	97
28) Fluoranthene	18.780	202	1804	0.043	ng	# 97
30) Pyrene	19.147	202	1807	0.053	ng	99
32) Benzo(a)anthracene	20.929	228	1100	0.034	ng	# 87
33) Chrysene	20.983	228	1514	0.045	ng	# 91
34) Bis(2-ethylhexyl)phtha...	20.893	149	988	0.077	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.073	276	1031m	0.029	ng	
37) Benzo(b)fluoranthene	22.424	252	1409	0.042	ng	# 22
38) Benzo(k)fluoranthene	22.465	252	1028	0.031	ng	# 18
39) Benzo(a)pyrene	22.945	252	820	0.030	ng	# 1
40) Dibenzo(a,h)anthracene	25.096	278	685	0.024	ng	# 1
41) Benzo(g,h,i)perylene	25.675	276	816	0.028	ng	# 50

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

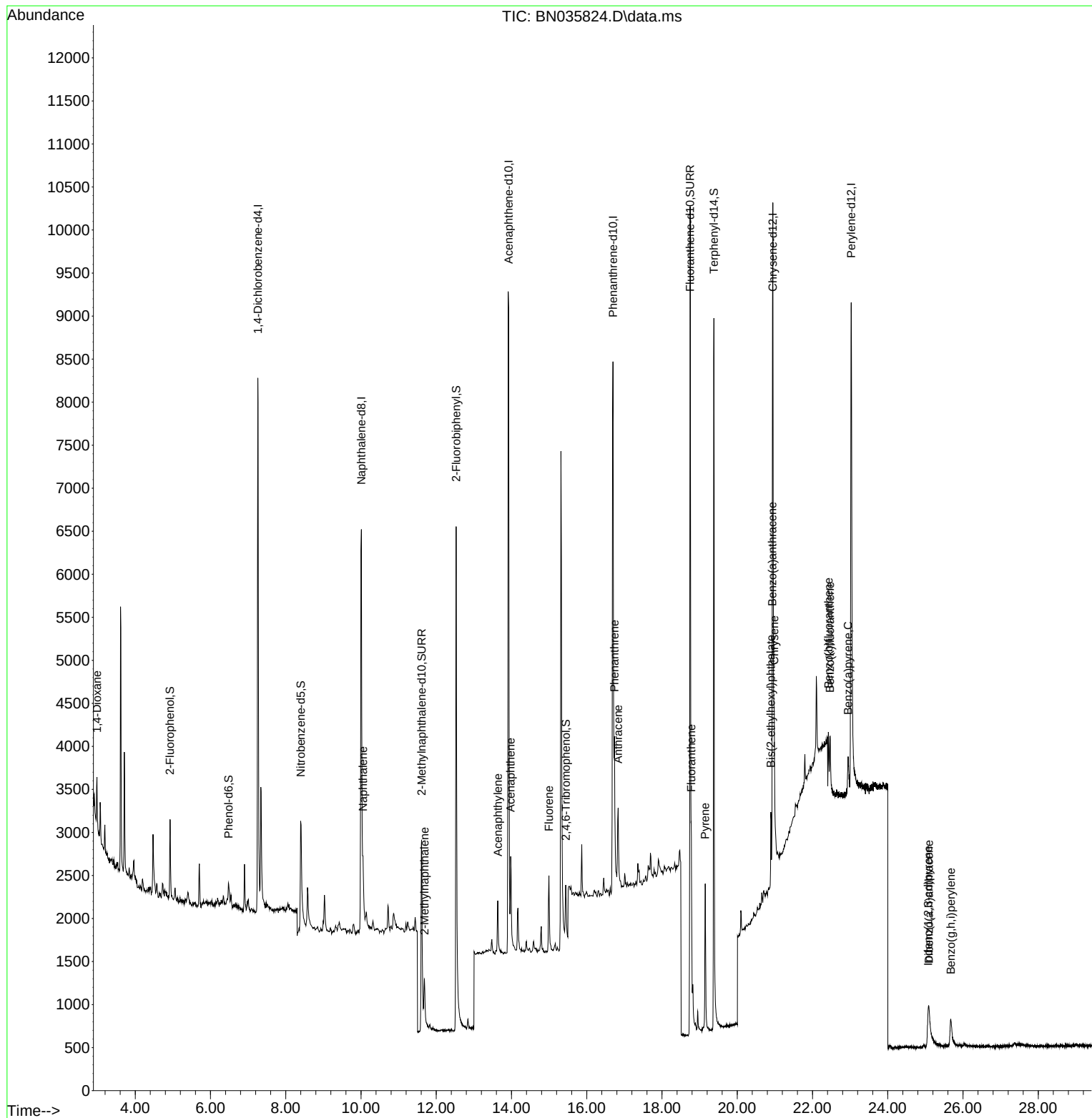
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

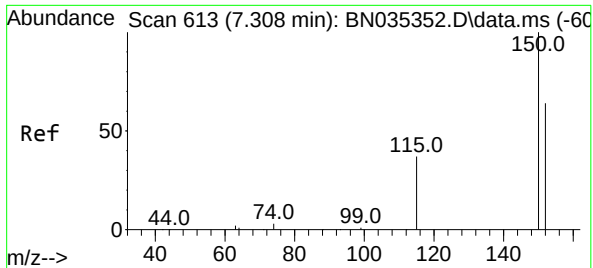
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
APPROVED

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

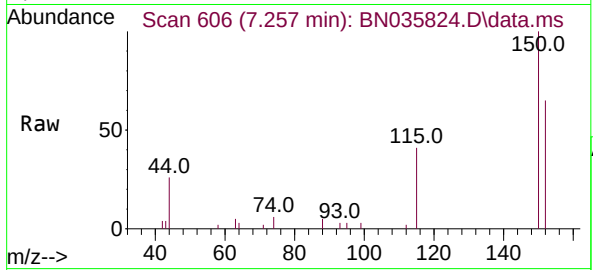
Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

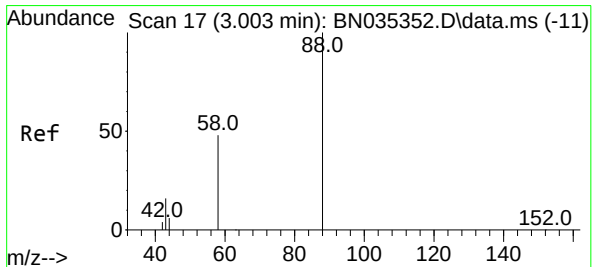
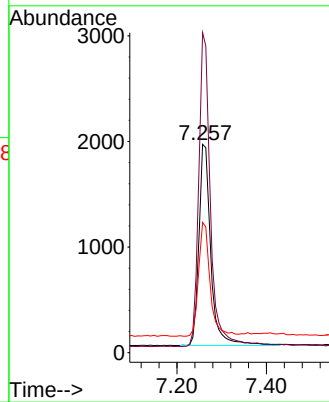
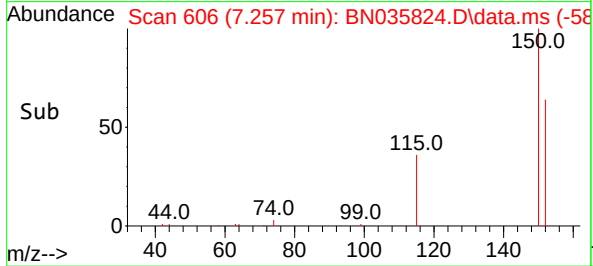
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion: 152 Resp: 354
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.5 49.6 74.4

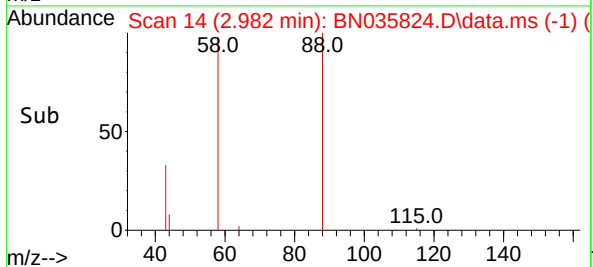
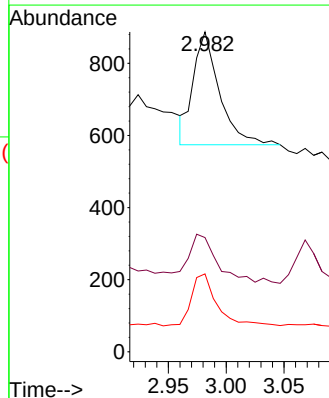
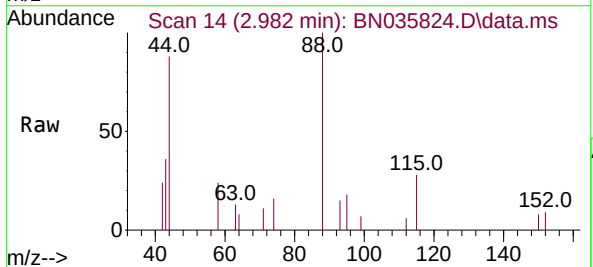
Manual Integrations
APPROVED

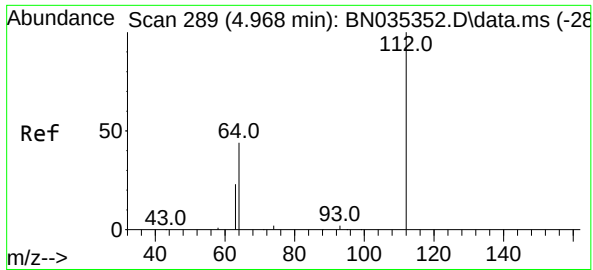
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.146 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 88 Resp: 493
Ion Ratio Lower Upper
88 100
43 49.5 17.2 25.8#
58 44.6 44.5 66.7





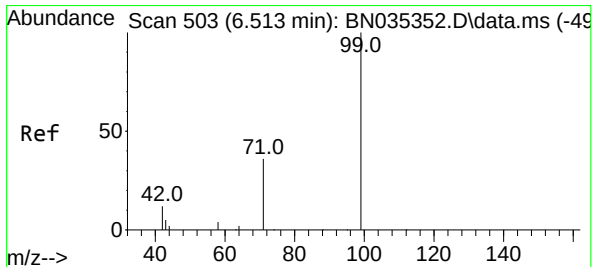
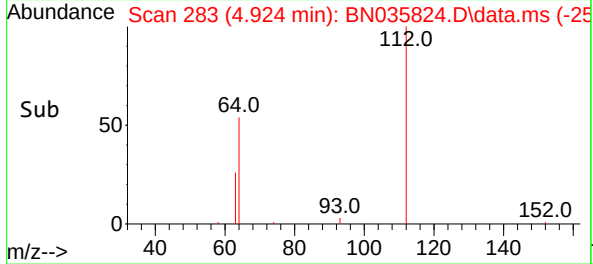
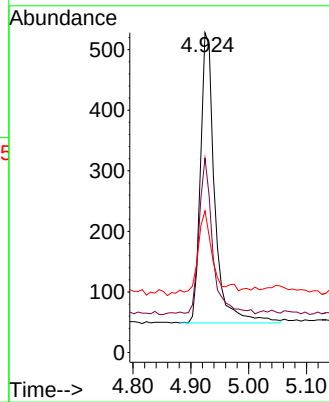
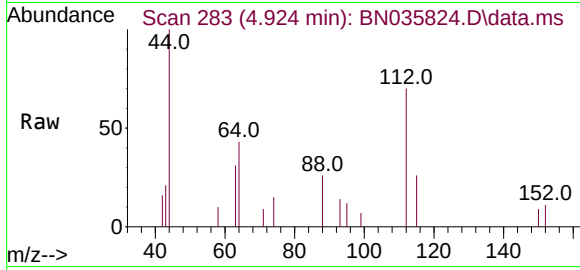
#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	29.9	21.0	31.6

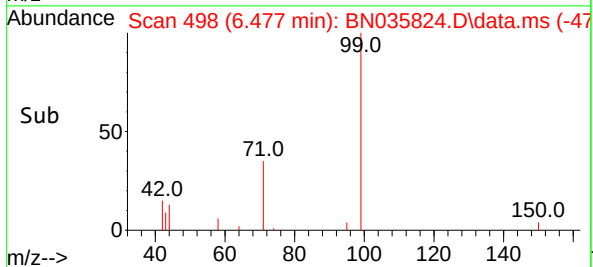
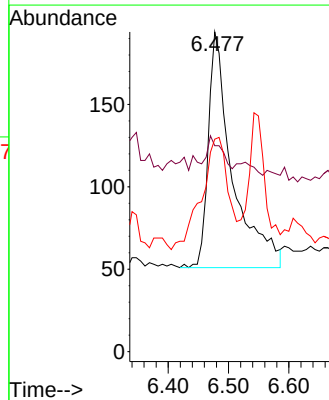
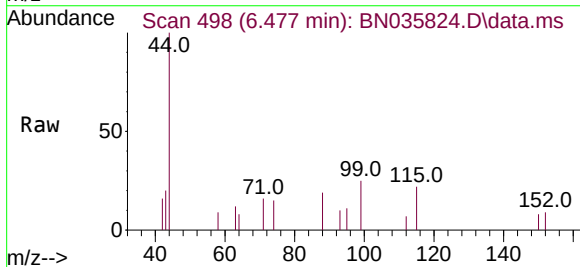
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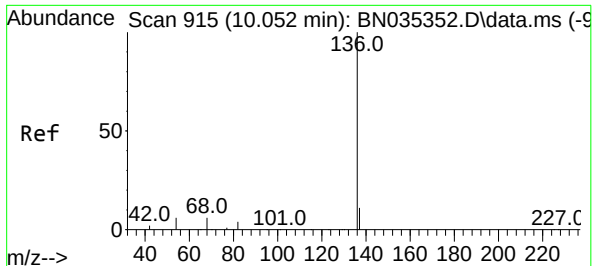
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

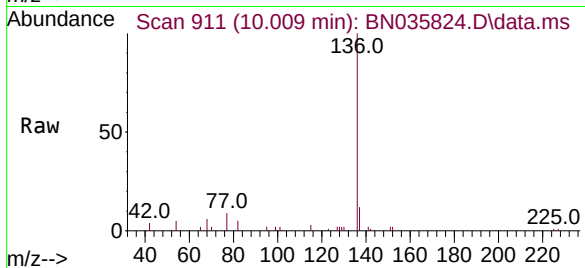
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	52.1	29.3	43.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

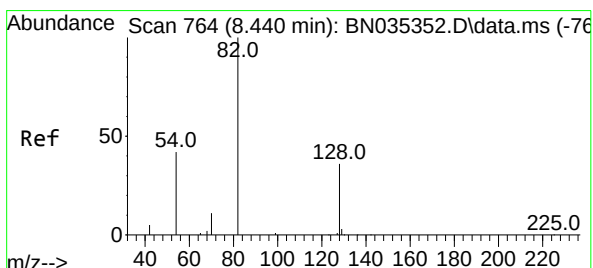
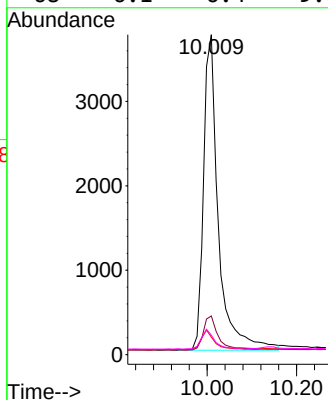
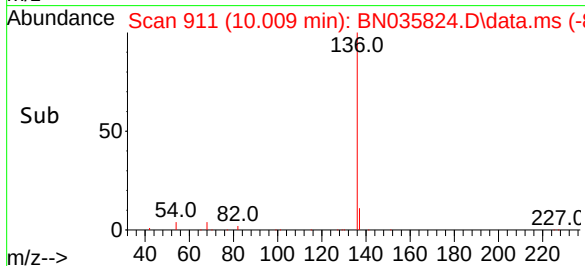
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:136 Resp: 857
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 5.5 6.1 9.1
68 6.1 6.4 9.6#

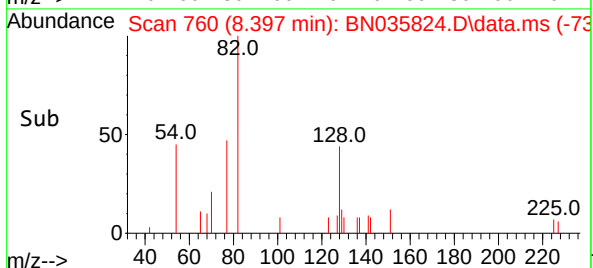
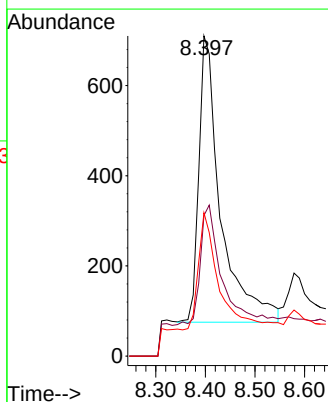
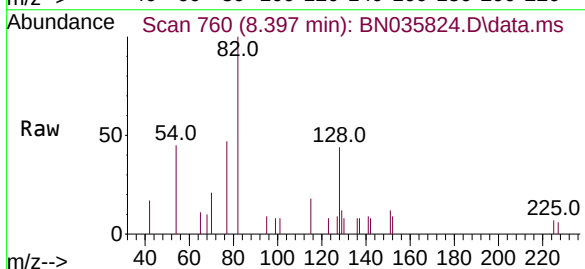
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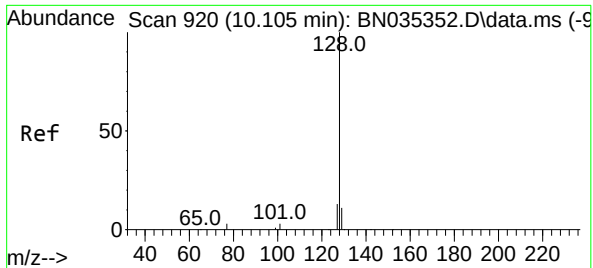
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.372 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

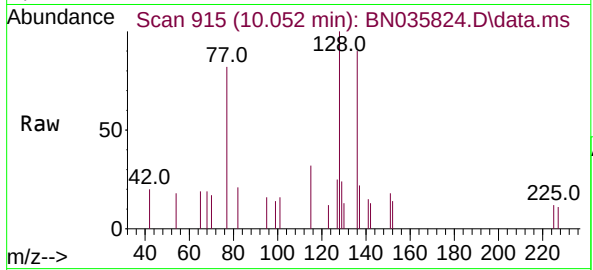
Tgt Ion: 82 Resp: 1948
Ion Ratio Lower Upper
82 100
128 43.9 33.4 50.0
54 44.8 36.7 55.1





#9
Naphthalene
Concen: 0.036 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

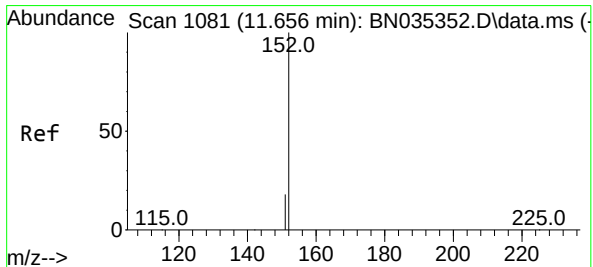
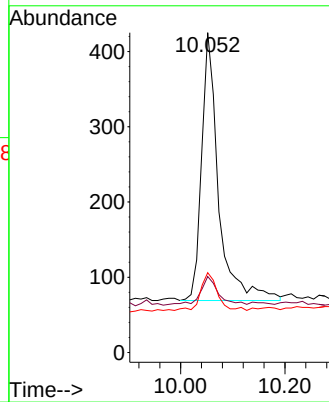
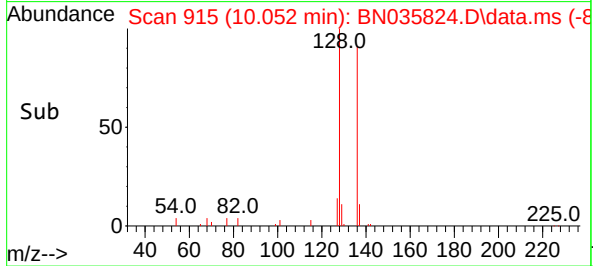
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:128 Resp: 800
Ion Ratio Lower Upper
128 100
129 23.8 9.8 14.6
127 24.9 11.4 17.2

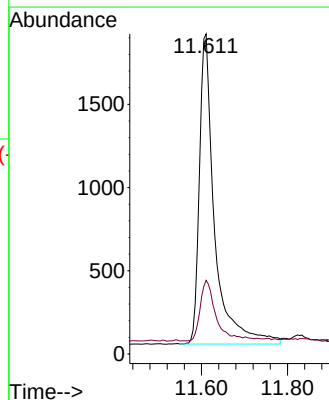
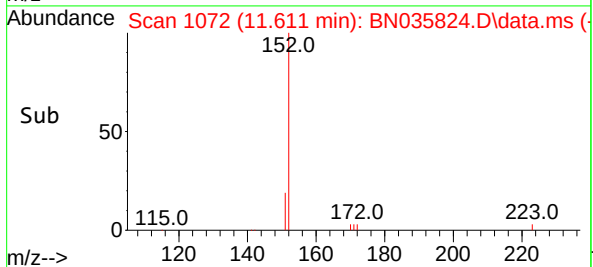
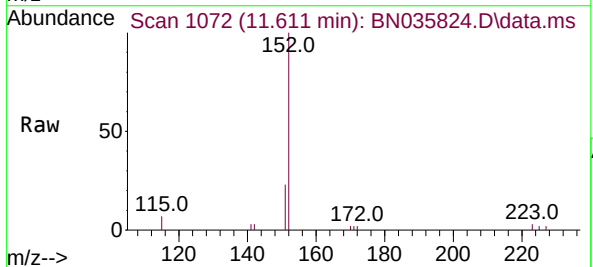
Manual Integrations
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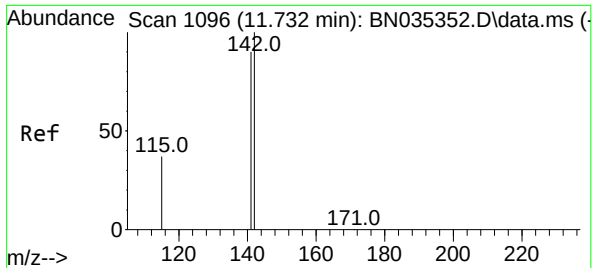
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

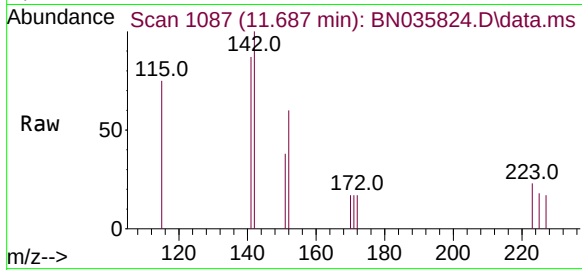
Tgt Ion:152 Resp: 4576
Ion Ratio Lower Upper
152 100
151 19.6 16.6 25.0





#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 11.687 min Scan# 1096
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

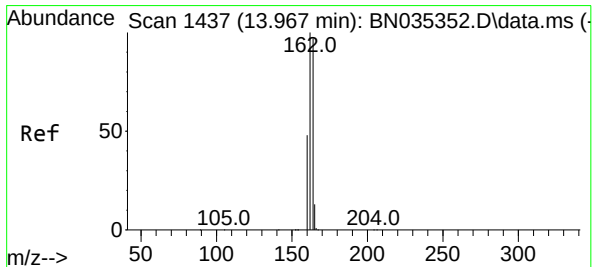
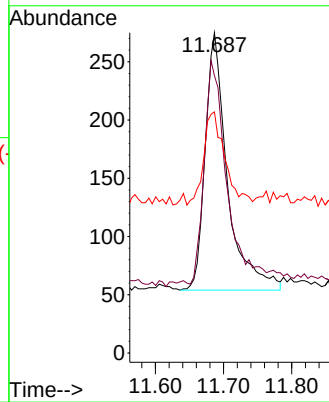
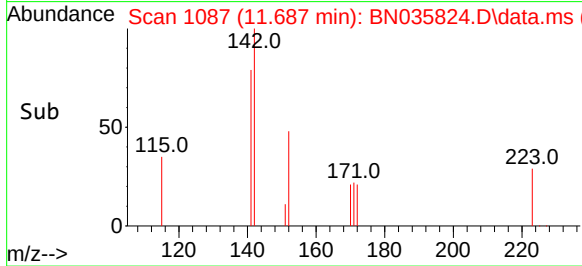
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:142 Resp: 502
Ion Ratio Lower Upper
142 100
141 86.5 72.2 108.4
115 75.3 31.4 47.0

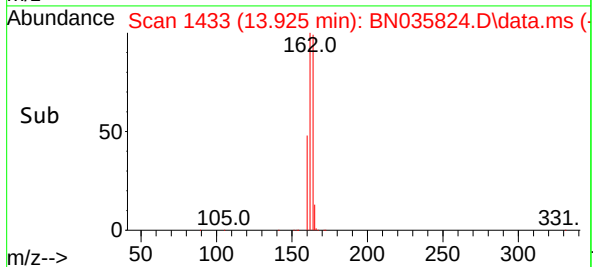
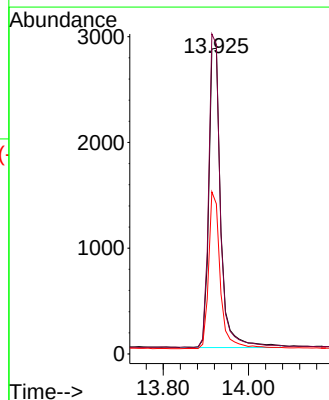
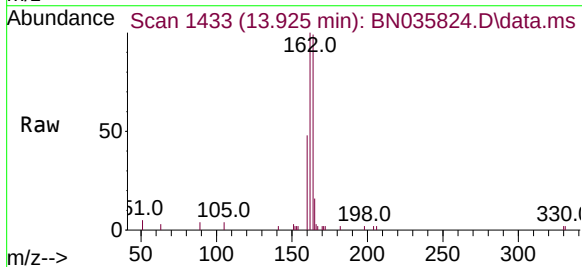
Manual Integrations
APPROVED

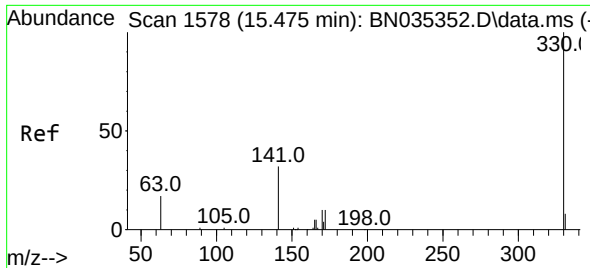
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

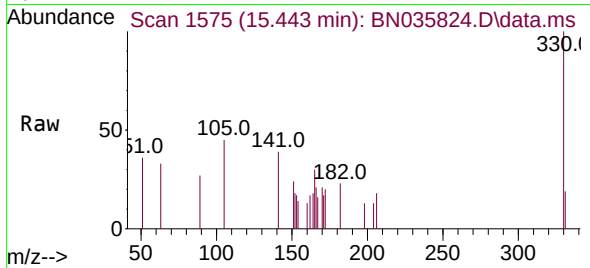
Tgt Ion:164 Resp: 5533
Ion Ratio Lower Upper
164 100
162 101.2 82.2 123.2
160 49.1 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

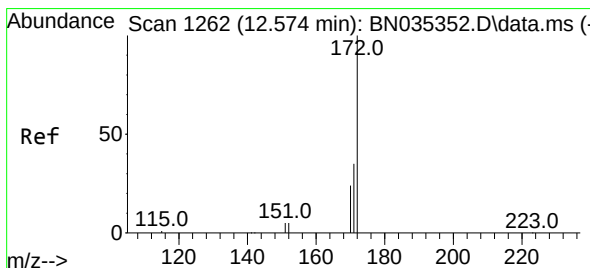
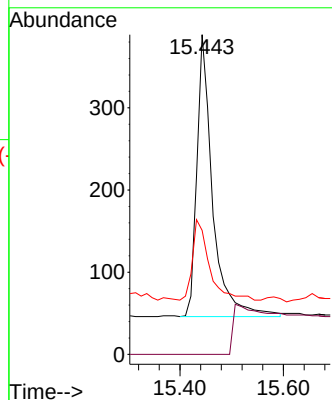
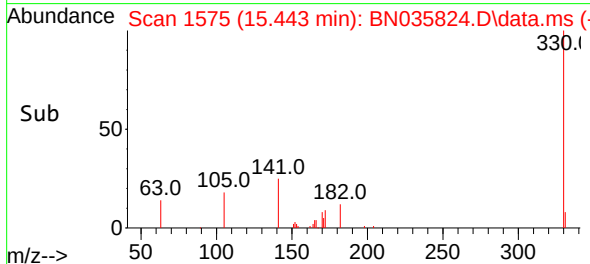
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:330 Resp: 760
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.8 26.6 40.0

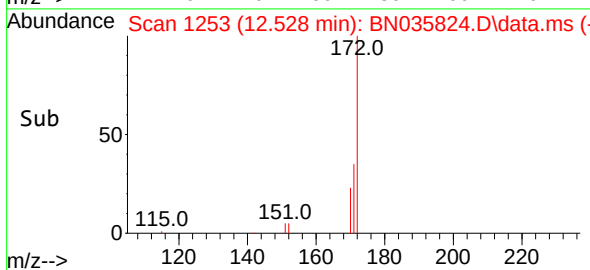
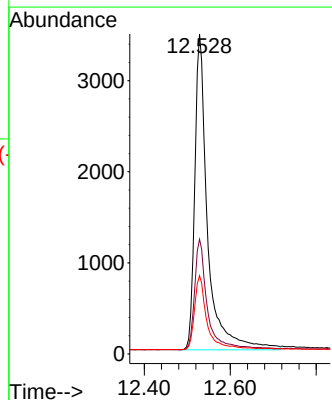
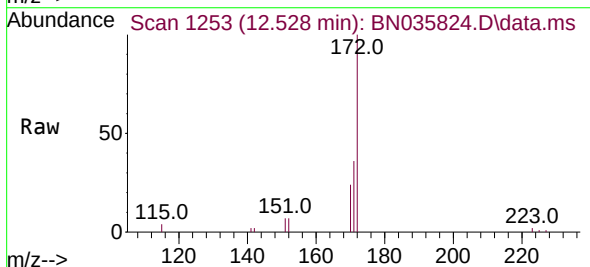
Manual Integrations
APPROVED

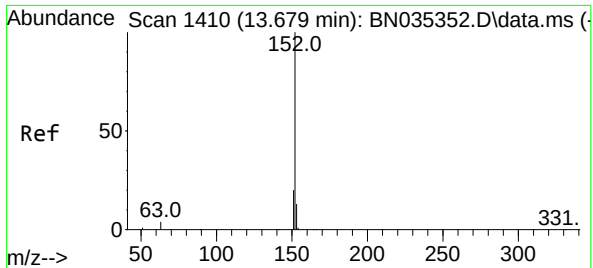
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

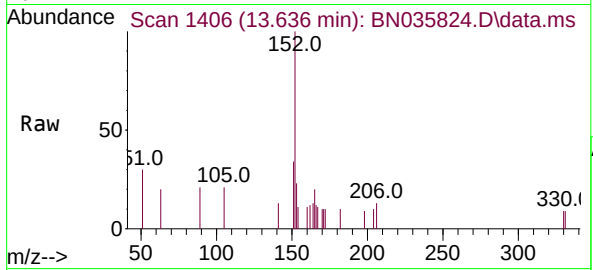
Tgt Ion:172 Resp: 7209
Ion Ratio Lower Upper
172 100
171 35.8 29.0 43.4
170 24.5 19.8 29.8





#16
Acenaphthylene
Concen: 0.038 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

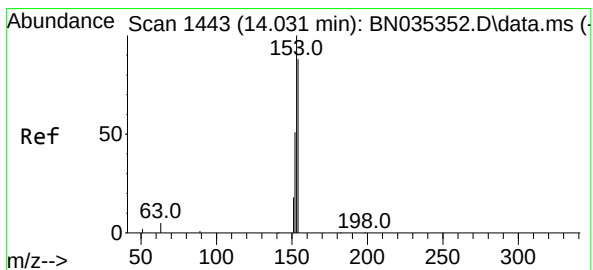
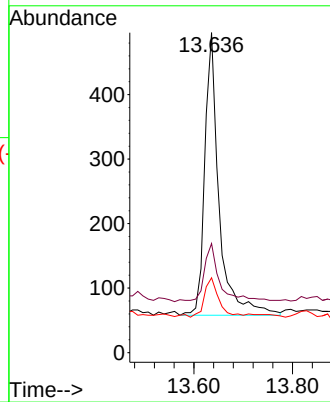
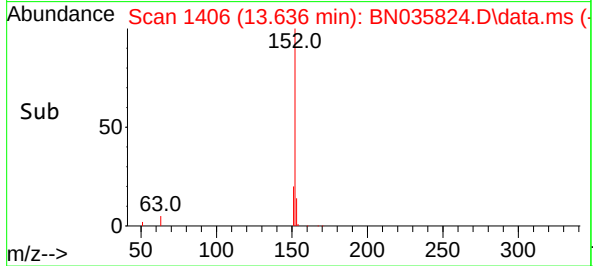
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:152 Resp: 87
Ion Ratio Lower Upper
152 100
151 22.6 16.2 24.2
153 13.7 10.4 15.6

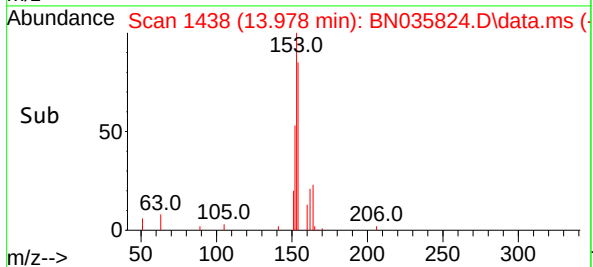
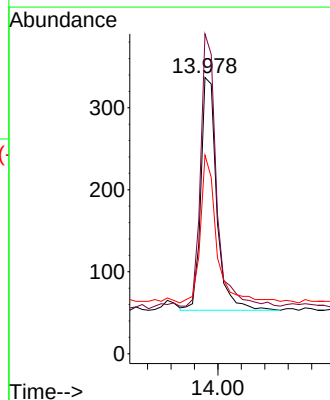
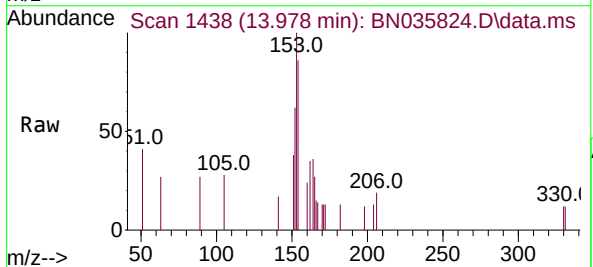
Manual Integrations
APPROVED

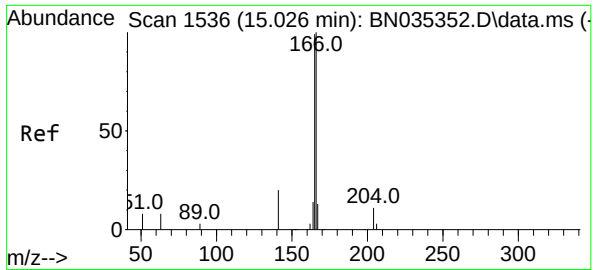
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.035 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

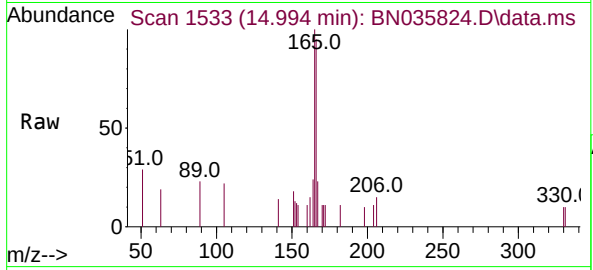
Tgt Ion:154 Resp: 539
Ion Ratio Lower Upper
154 100
153 115.6 92.6 139.0
152 64.9 49.0 73.6





#18
Fluorene
Concen: 0.035 ng
RT: 14.994 min Scan# 1536
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

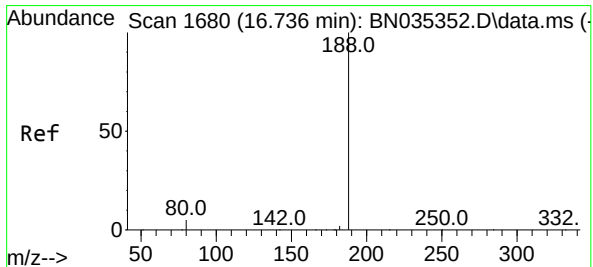
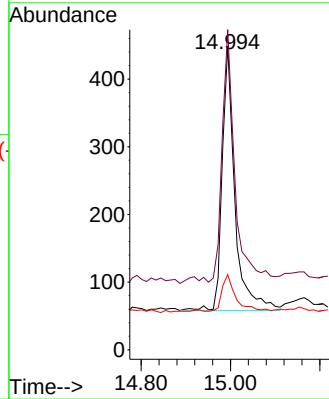
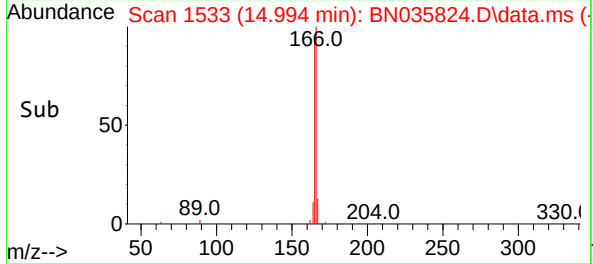
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:166 Resp: 778
Ion Ratio Lower Upper
166 100
165 95.8 79.7 119.5
167 15.2 10.8 16.2

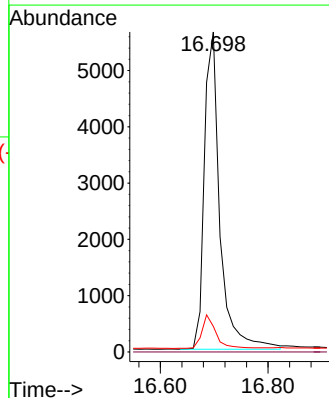
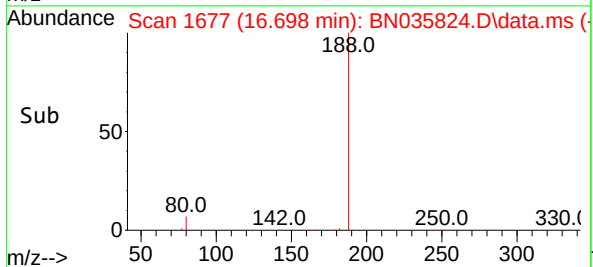
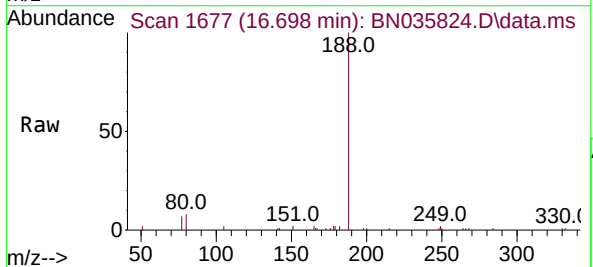
Manual Integrations
APPROVED

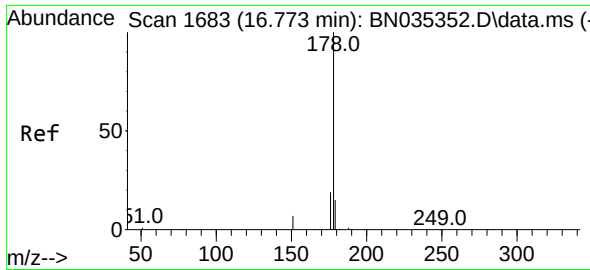
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

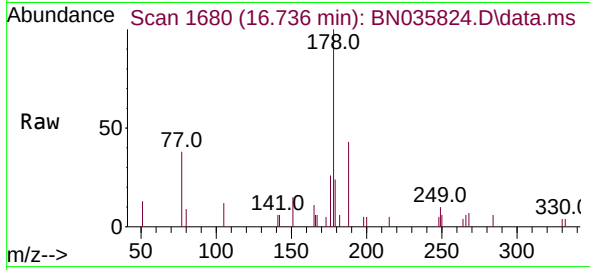
Tgt Ion:188 Resp: 11307
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.0 4.6 6.8





#25
Phenanthrene
Concen: 0.057 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

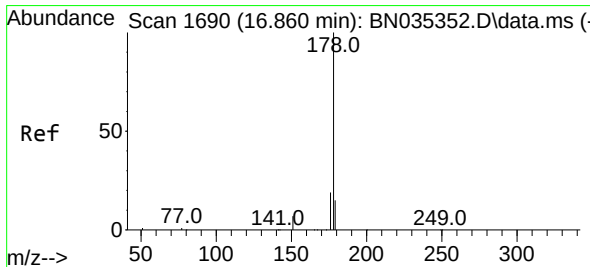
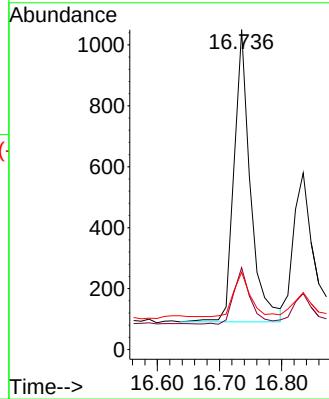
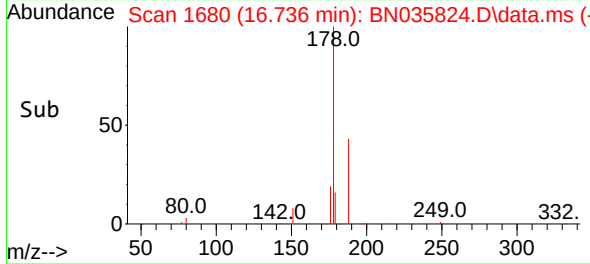
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:178 Resp: 175
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.7 12.3 18.5

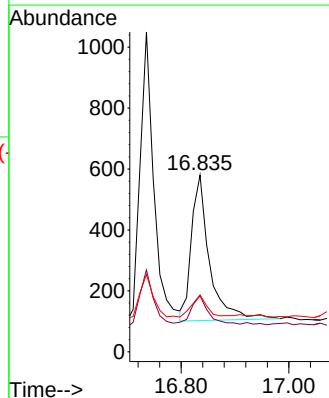
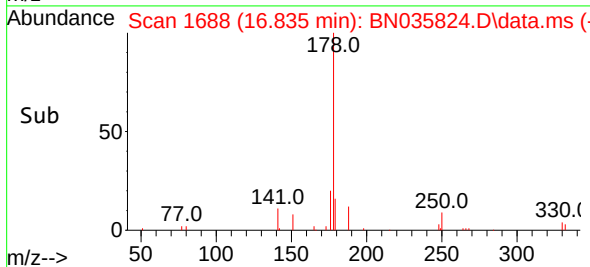
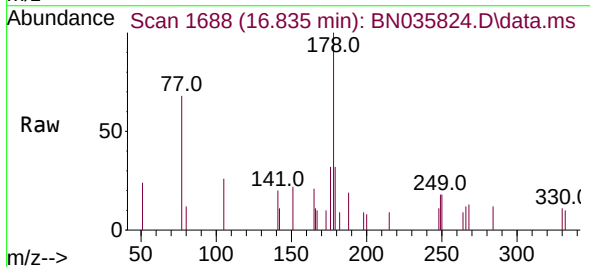
Manual Integrations
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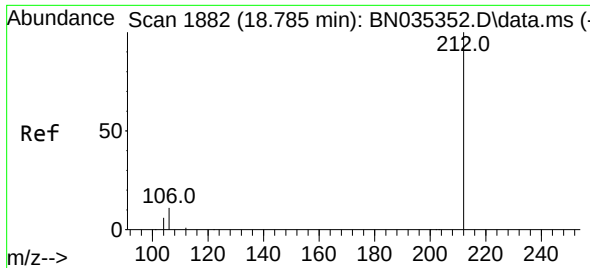
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.040 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

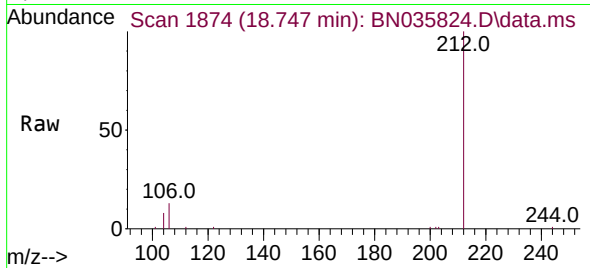
Tgt Ion:178 Resp: 1113
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 12.8 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

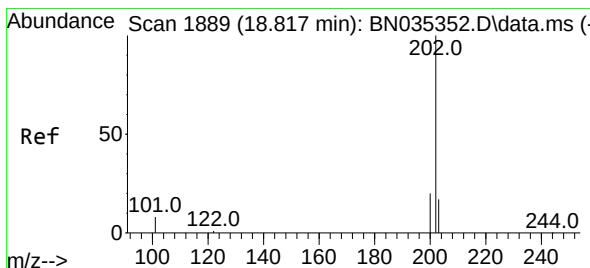
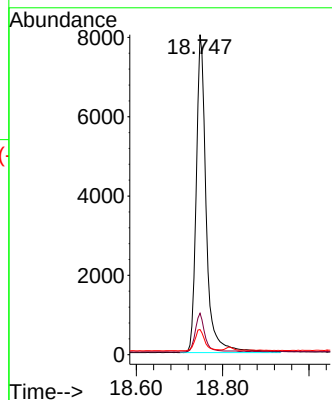
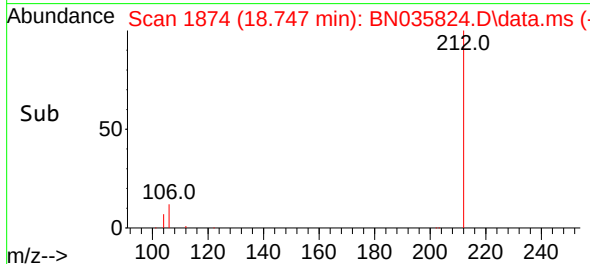
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:212 Resp: 1288
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 6.7 5.3 7.9

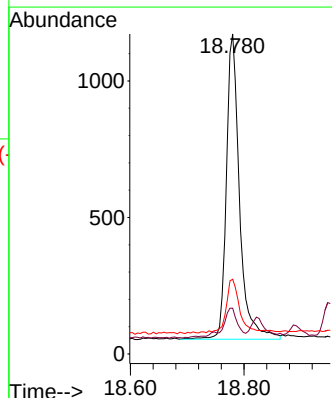
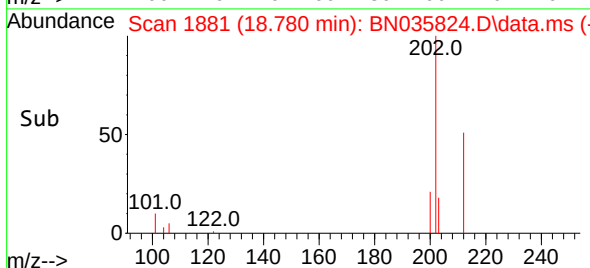
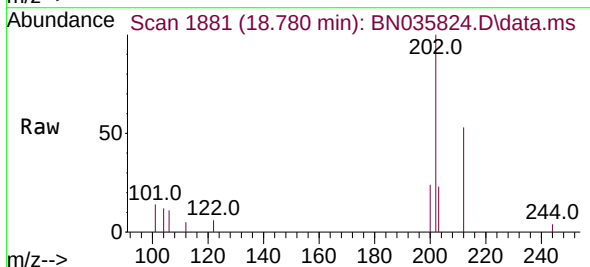
Manual Integrations
APPROVED

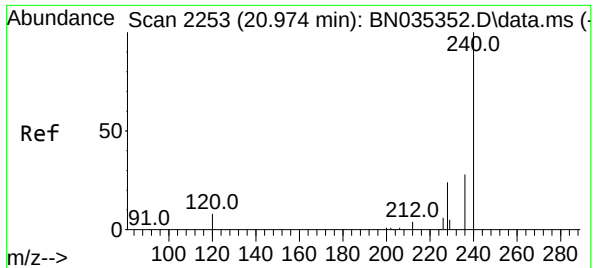
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.043 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1804
Ion Ratio Lower Upper
202 100
101 11.1 7.4 11.0#
203 18.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218

Tgt Ion:240 Resp: 9270

Ion Ratio Lower Upper

240 100

120 11.4 7.9 11.9

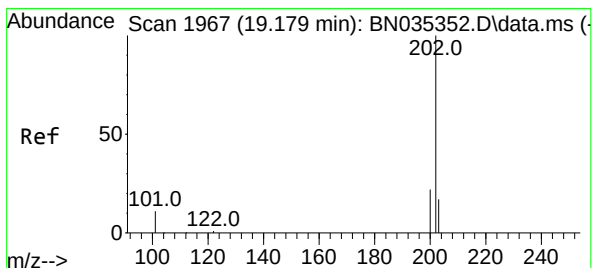
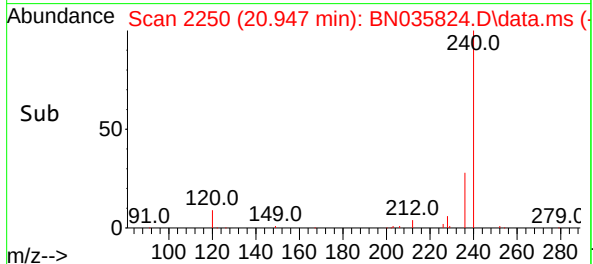
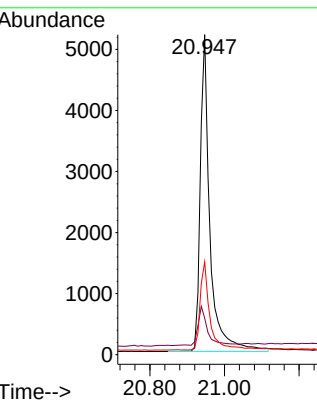
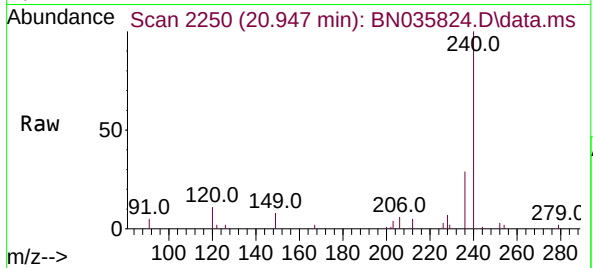
236 29.0 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.053 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

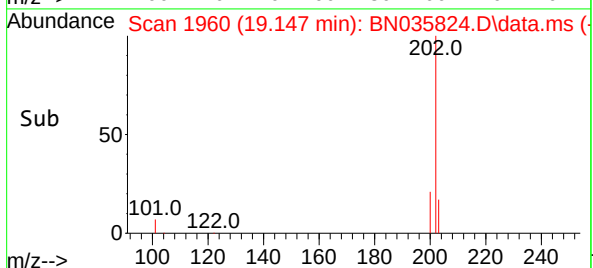
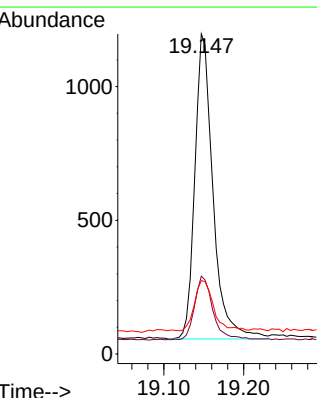
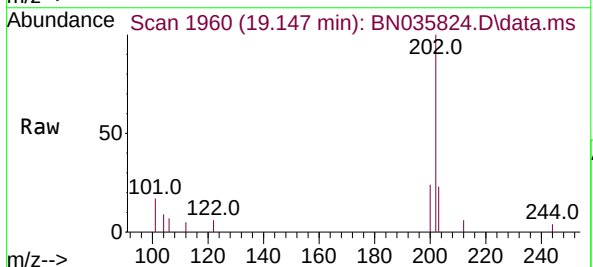
Tgt Ion:202 Resp: 1807

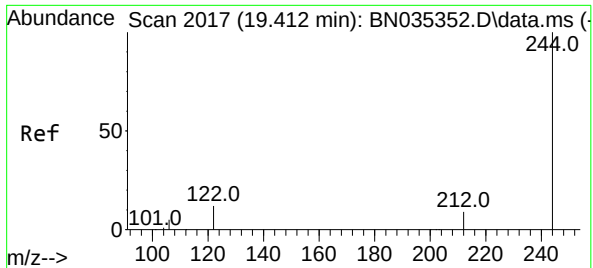
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

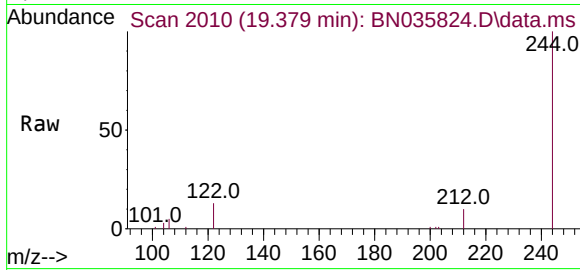
203 17.7 14.3 21.5





#31
Terphenyl-d14
Concen: 0.520 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

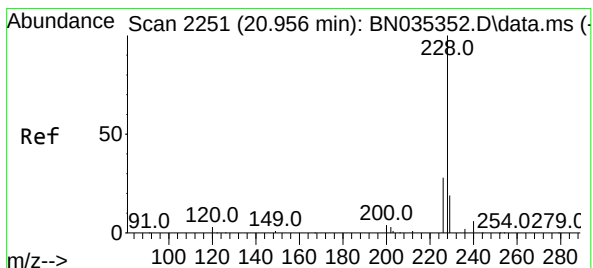
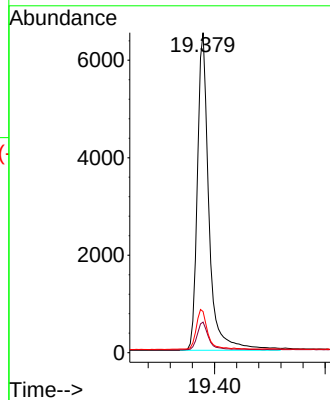
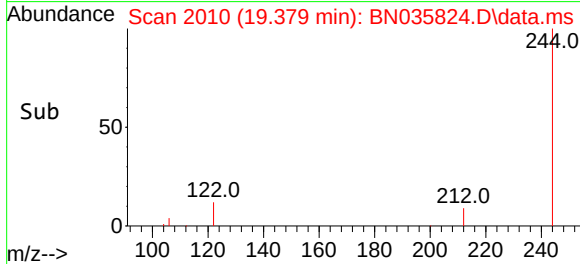
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:244 Resp: 950
Ion Ratio Lower Upper
244 100
212 9.5 8.1 12.1
122 12.8 10.3 15.5

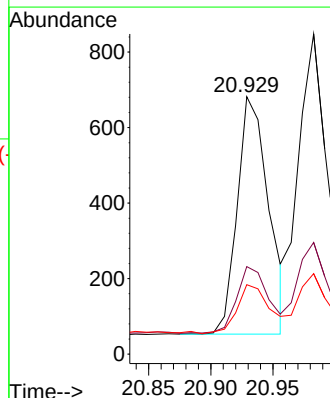
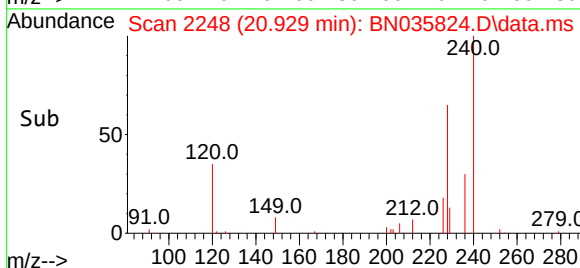
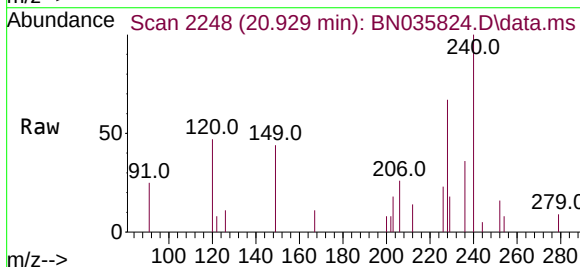
Manual Integrations
APPROVED

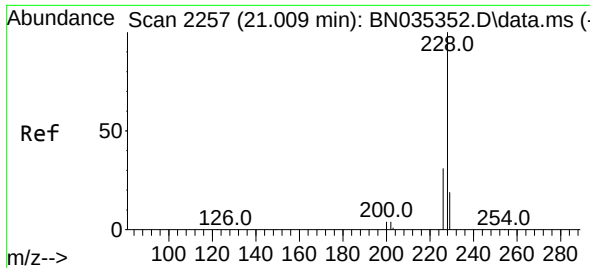
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.034 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 1100
Ion Ratio Lower Upper
228 100
226 34.0 22.5 33.7#
229 27.0 15.8 23.8#





#33

Chrysene

Concen: 0.045 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218

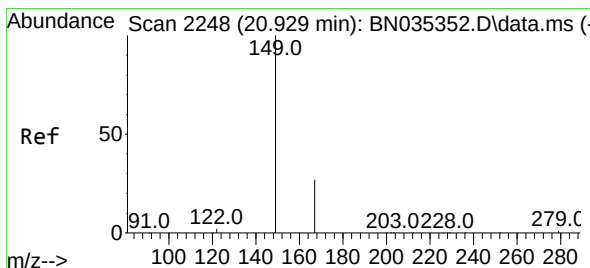
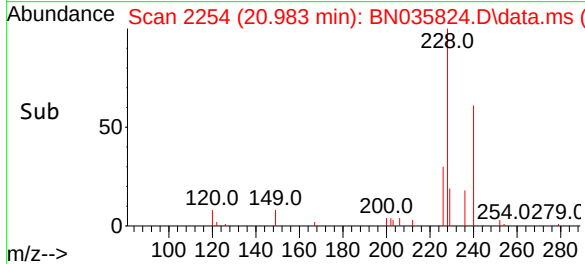
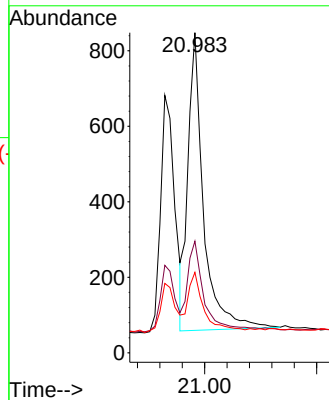
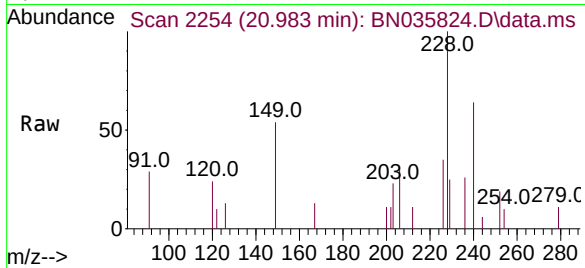
Tgt Ion:	228	Resp:	1514
Ion Ratio	Lower	Upper	
228	100		
226	34.9	24.6	37.0
229	25.1	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.077 ng

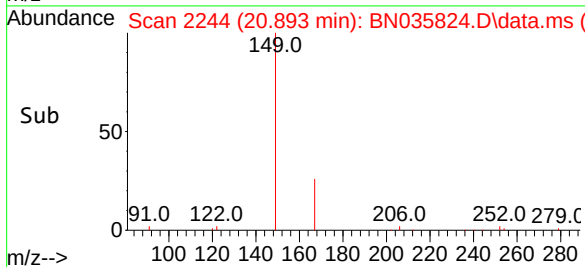
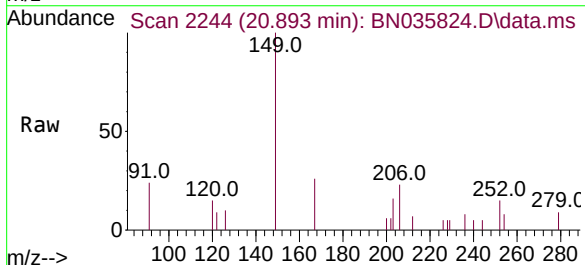
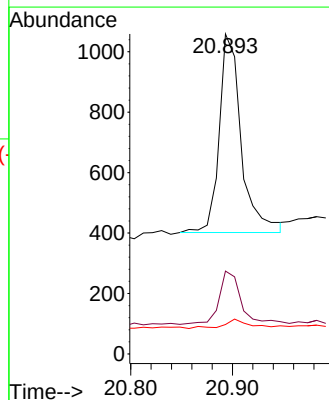
RT: 20.893 min Scan# 2244

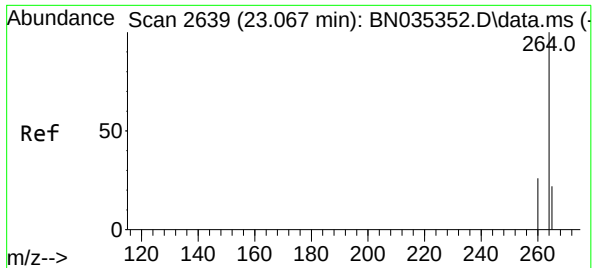
Delta R.T. -0.018 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

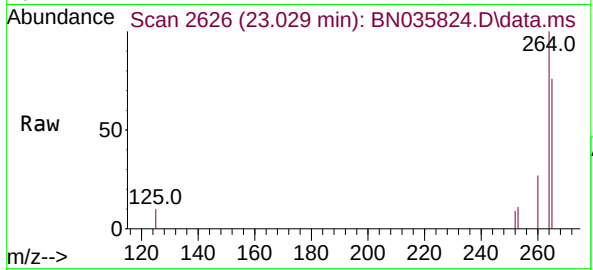
Tgt Ion:	149	Resp:	988
Ion Ratio	Lower	Upper	
149	100		
167	26.7	22.2	33.4
279	5.5	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 20
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

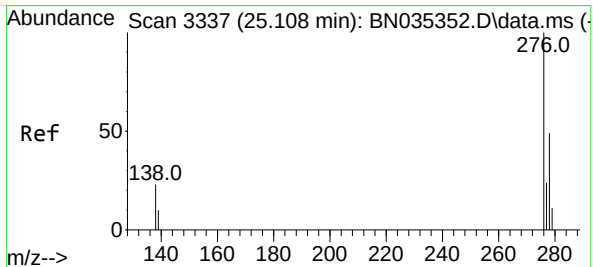
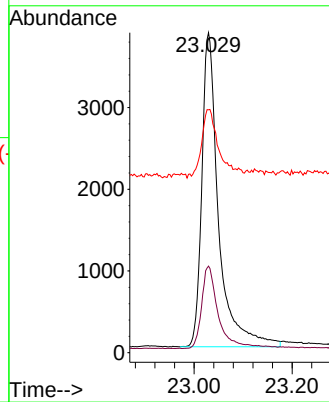
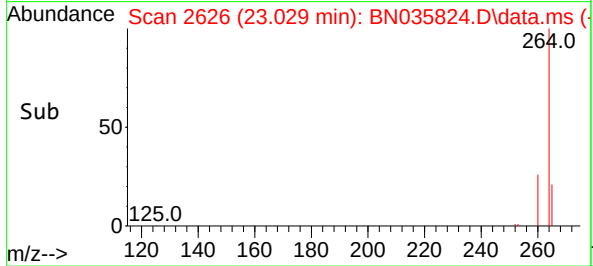
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218



Tgt Ion:264 Resp: 9119
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 75.9 40.2 60.4

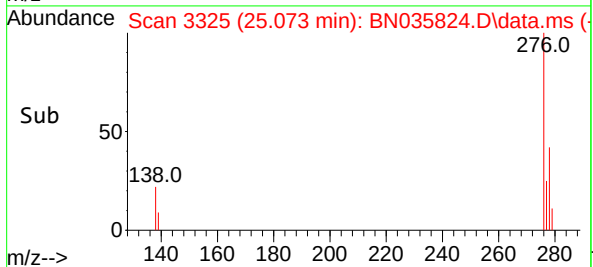
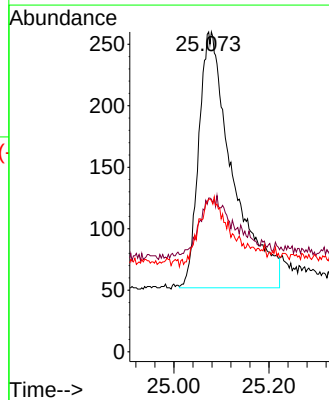
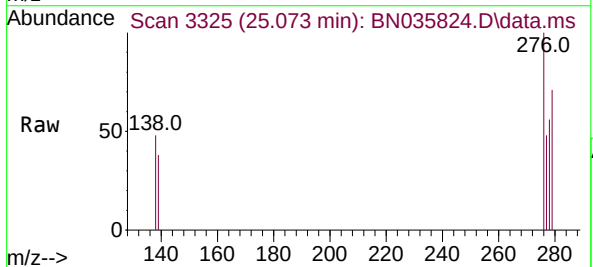
Manual Integrations
APPROVED

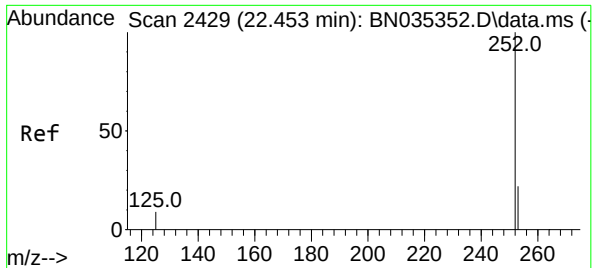
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.029 ng m
RT: 25.073 min Scan# 3325
Delta R.T. 0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 1031
Ion Ratio Lower Upper
276 100
138 8.7 19.4 29.0#
277 10.7 19.8 29.6#





#37

Benzo(b)fluoranthene

Concen: 0.042 ng

RT: 22.424 min Scan# 2419

Delta R.T. -0.006 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

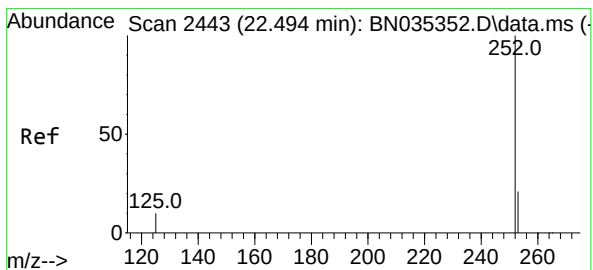
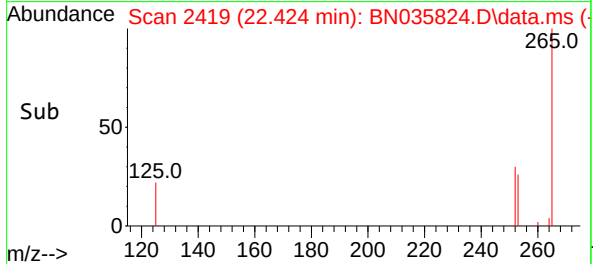
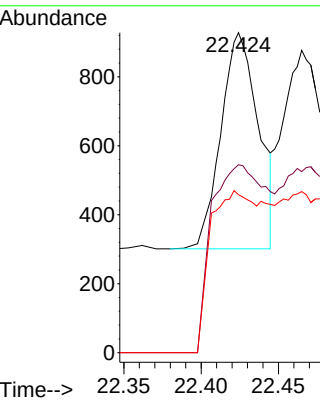
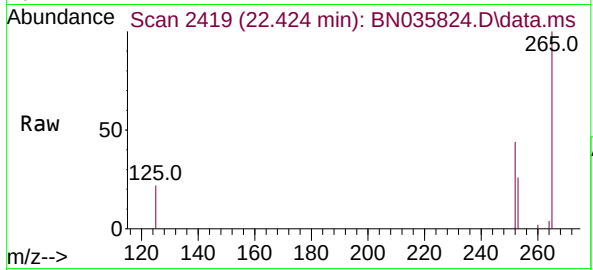
RW10A-MW01S-20241218

Tgt Ion:252	Resp:	1409
Ion Ratio	Lower	Upper
252	100	
253	58.7	19.6 29.4#
125	49.4	9.6 14.4#

Manual Integrations

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



#38

Benzo(k)fluoranthene

Concen: 0.031 ng

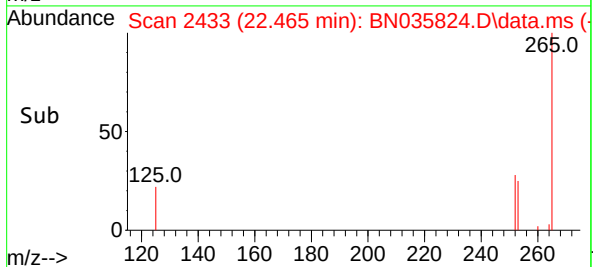
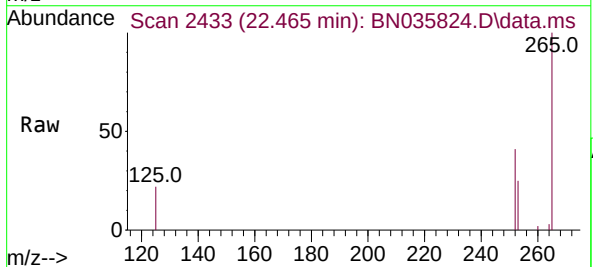
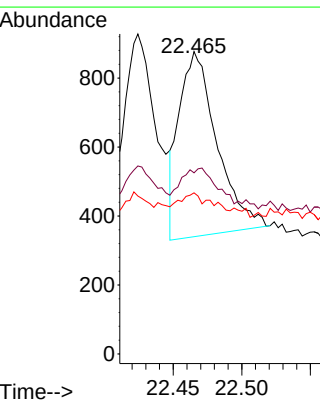
RT: 22.465 min Scan# 2433

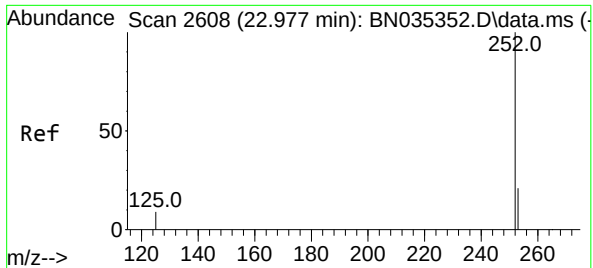
Delta R.T. -0.006 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Tgt Ion:252	Resp:	1028
Ion Ratio	Lower	Upper
252	100	
253	59.9	19.5 29.3#
125	53.2	10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.030 ng

RT: 22.945 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035824.D

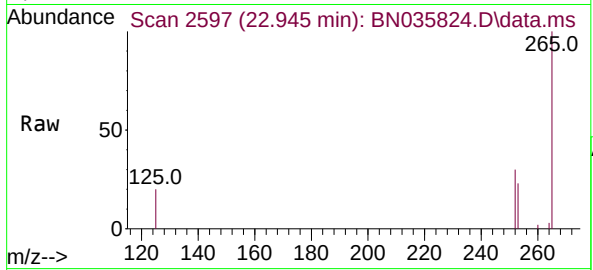
Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218



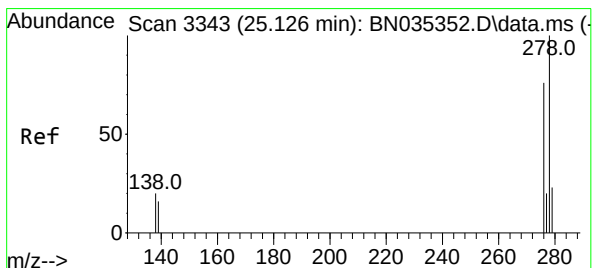
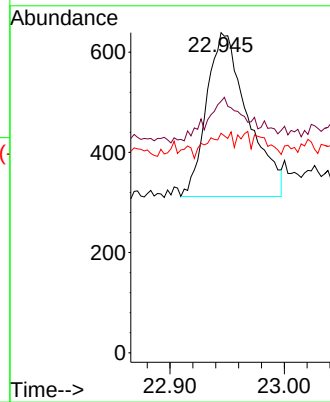
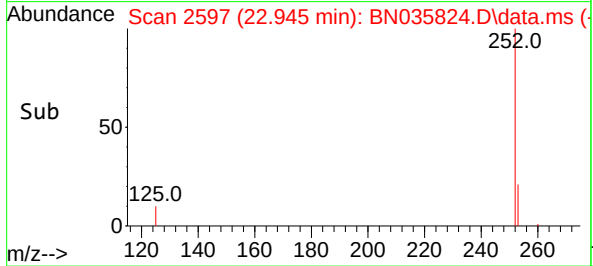
Tgt Ion:	252	Resp:	820
Ion	Ratio	Lower	Upper
252	100		
253	78.6	20.2	30.4
125	68.5	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

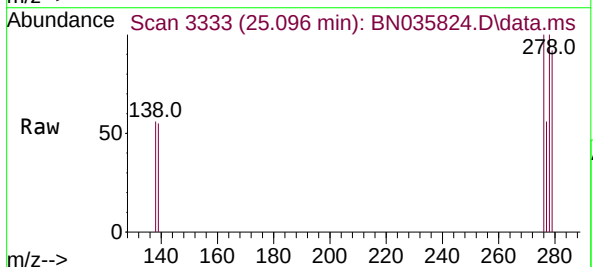
Concen: 0.024 ng

RT: 25.096 min Scan# 3333

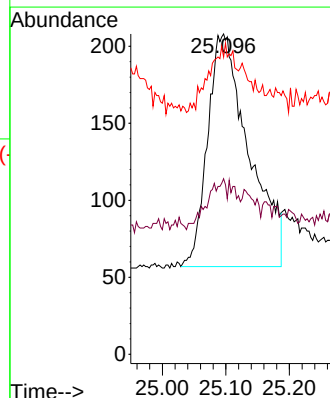
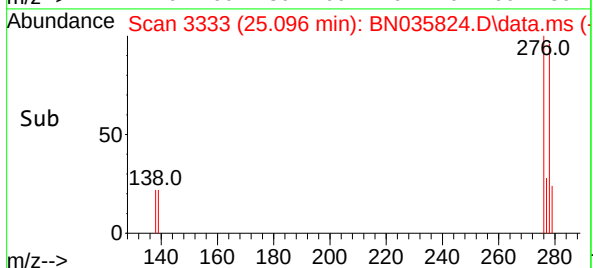
Delta R.T. 0.015 min

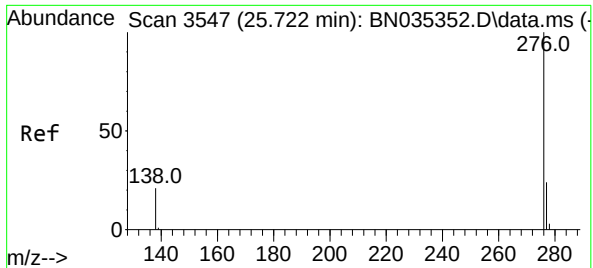
Lab File: BN035824.D

Acq: 24 Dec 2024 16:42



Tgt Ion:	278	Resp:	685
Ion	Ratio	Lower	Upper
278	100		
139	54.8	14.2	21.4
279	92.8	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.028 ng

RT: 25.675 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035824.D

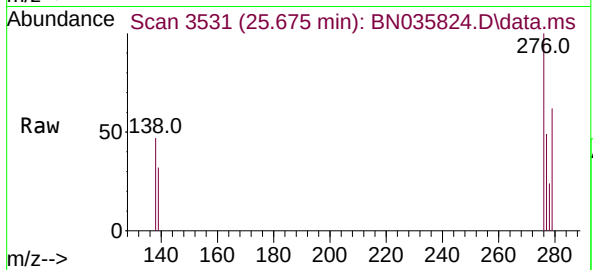
Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218



Tgt Ion: 276 Resp: 810

Ion Ratio Lower Upper

276 100

277 48.7 19.9 29.9

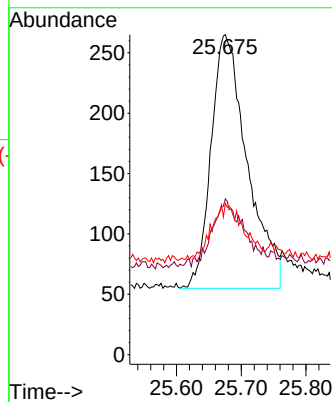
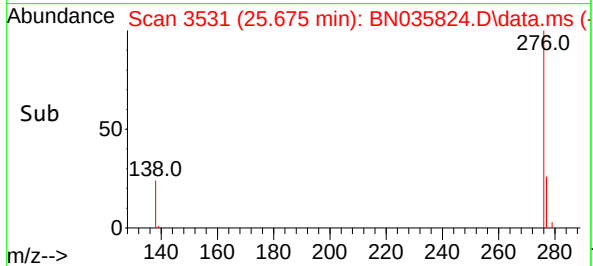
138 47.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10A-MW01I-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-12	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
BN035825.D	1	12/23/24 13:29	12/24/24 17:18	PB165828

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		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3190		7.264			
1146-65-2	Naphthalene-d8	7280		10.009			
15067-26-2	Acenaphthene-d10	4570		13.924			
1517-22-2	Phenanthrene-d10	9050		16.698			
1719-03-5	Chrysene-d12	6940		20.947			
1520-96-3	Perylene-d12	6790		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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035825.D
 Acq On : 24 Dec 2024 17:18
 Operator : RC/JU
 Sample : P5376-12
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01I-20241218

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

Quant Time: Dec 24 23:20:05 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	3186	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7275	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4568	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9048	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6943	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6791	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	881	0.110	ng	-0.01
5) Phenol-d6	6.484	99	395	0.041	ng	0.00
8) Nitrobenzene-d5	8.408	82	1883m	0.424	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4263	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	626	0.193	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6668	0.386	ng	-0.02
27) Fluoranthene-d10	18.752	212	10051	0.392	ng	0.00
31) Terphenyl-d14	19.379	244	7353	0.537	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	451	0.024	ng	# 49
16) Acenaphthylene	13.636	152	407	0.021	ng	# 89
17) Acenaphthene	13.989	154	278	0.022	ng	94
26) Anthracene	16.835	178	519	0.023	ng	# 88
28) Fluoranthene	18.780	202	792	0.024	ng	# 98
30) Pyrene	19.152	202	780	0.030	ng	99
33) Chrysene	20.983	228	620	0.025	ng	# 78
34) Bis(2-ethylhexyl)phtha...	20.893	149	598	0.062	ng	# 95

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

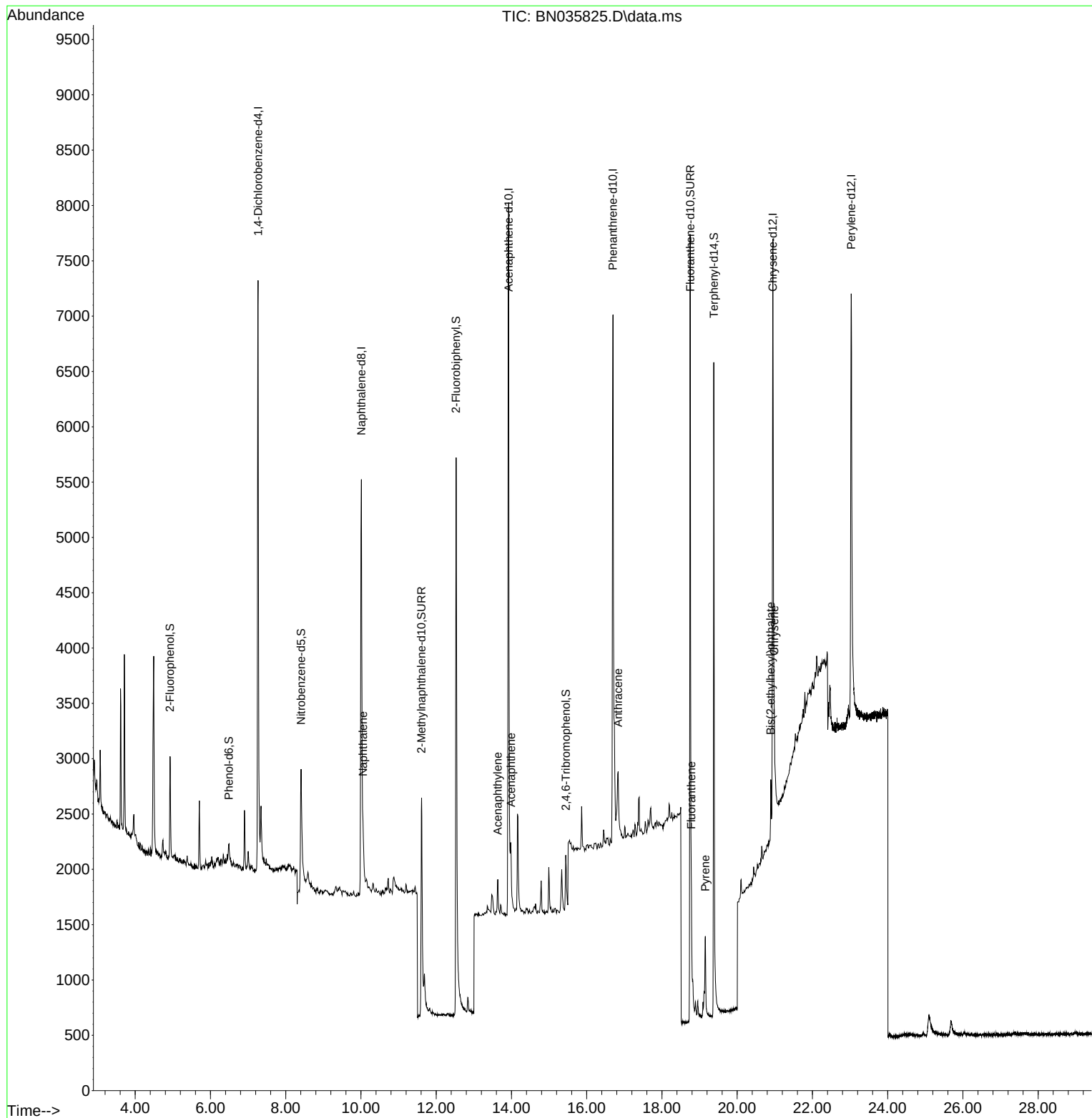
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

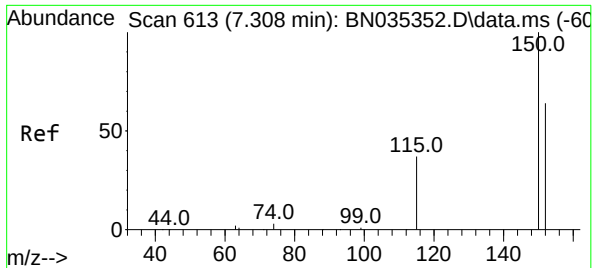
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
APPROVED

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

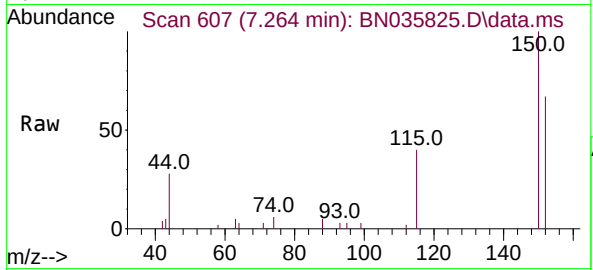
Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

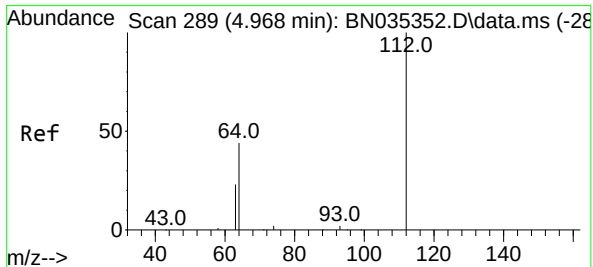
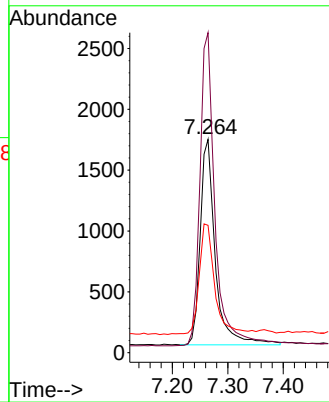
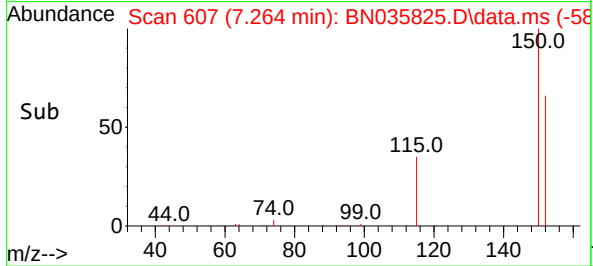
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion:152 Resp: 3180
Ion Ratio Lower Upper
152 100
150 150.0 124.0 186.0
115 59.7 49.6 74.4

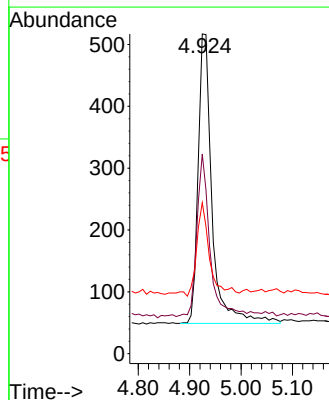
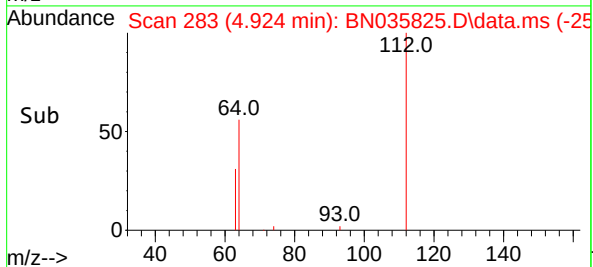
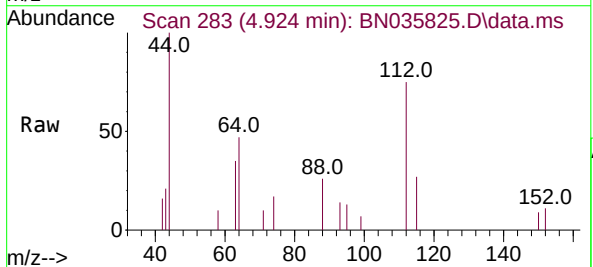
Manual Integrations
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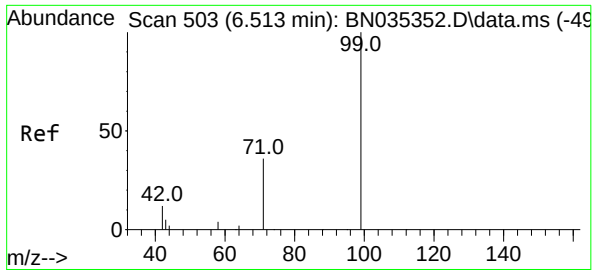
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.110 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

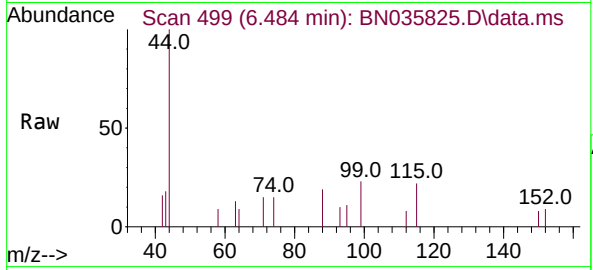
Tgt Ion:112 Resp: 881
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 28.1 21.0 31.6





#5
Phenol-d6
Concen: 0.041 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

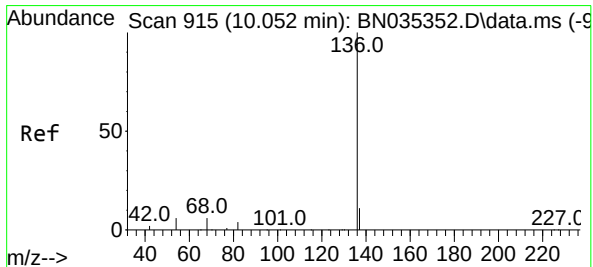
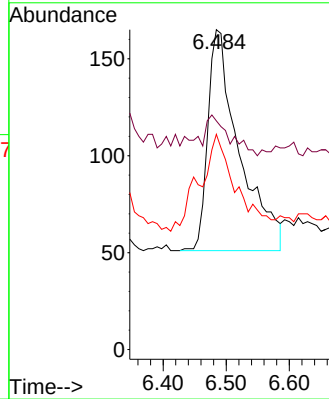
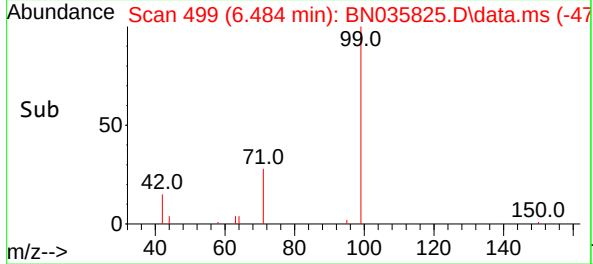
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion: 99 Resp: 399
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.2
71 31.4 29.3 43.9

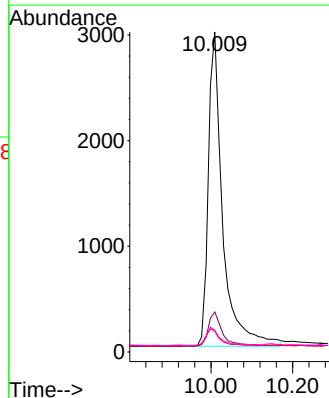
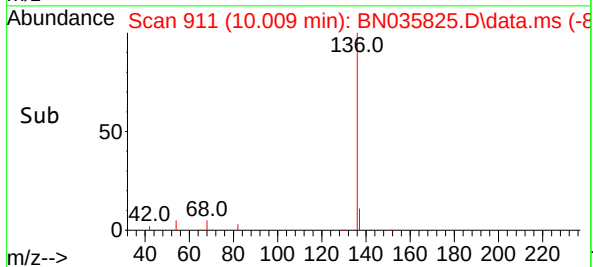
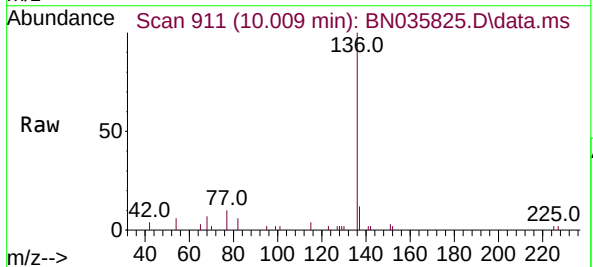
Manual Integrations
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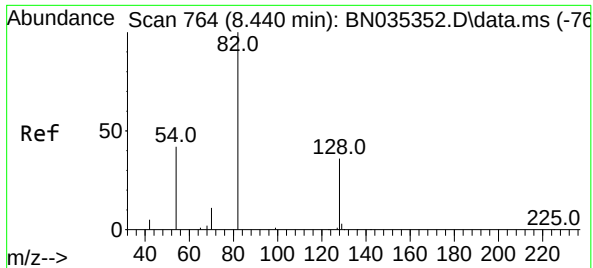
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

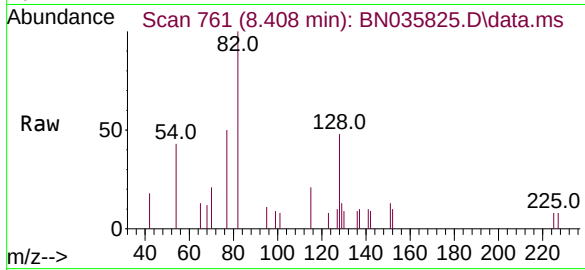
Tgt Ion:136 Resp: 7275
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 6.5 6.1 9.1
68 6.8 6.4 9.6





#8
Nitrobenzene-d5
Concen: 0.424 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

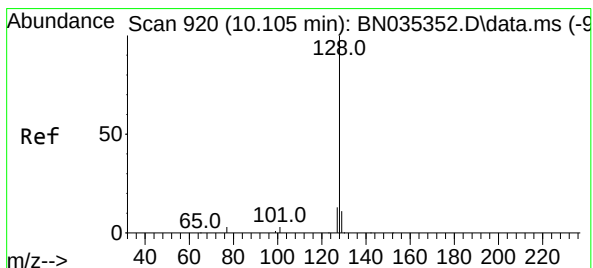
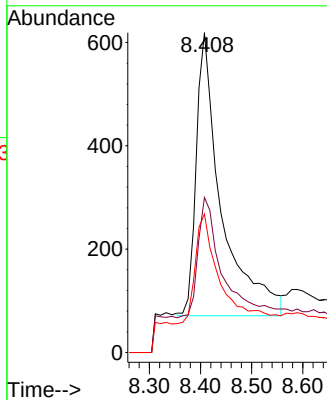
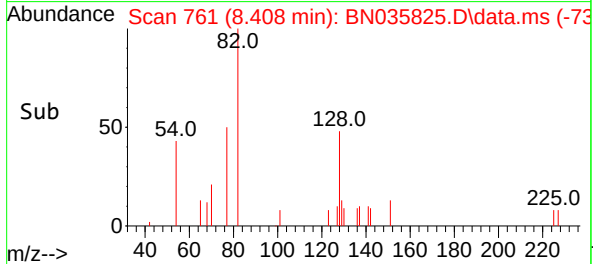
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218



Tgt Ion: 82 Resp: 188
Ion Ratio Lower Upper
82 100
128 48.5 33.4 50.0
54 43.3 36.7 55.1

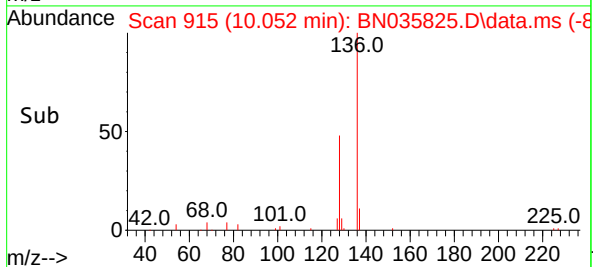
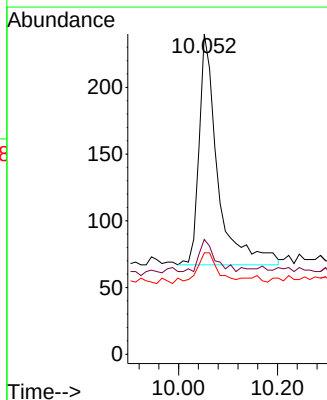
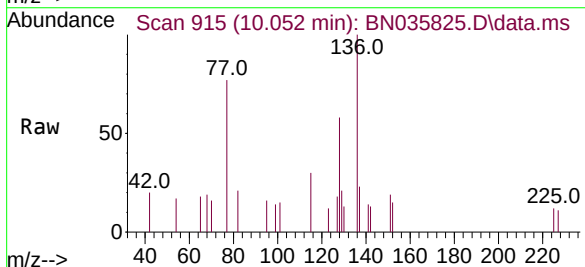
Manual Integrations
APPROVED

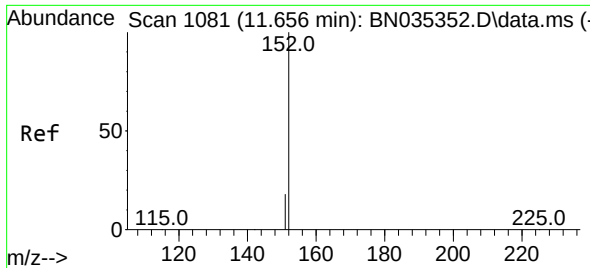
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#9
Naphthalene
Concen: 0.024 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

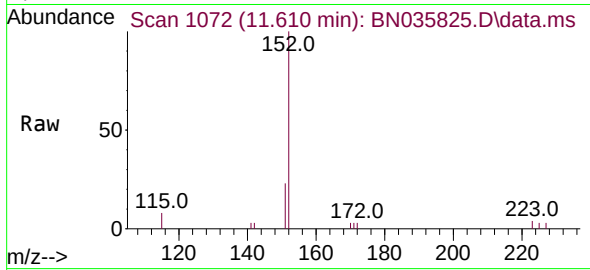
Tgt Ion:128 Resp: 451
Ion Ratio Lower Upper
128 100
129 35.8 9.8 14.6#
127 31.7 11.4 17.2#





#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.610 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

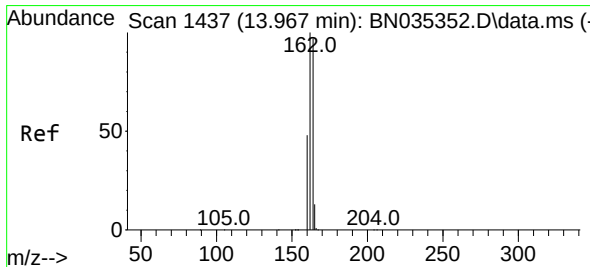
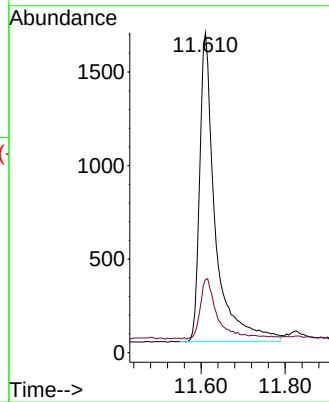
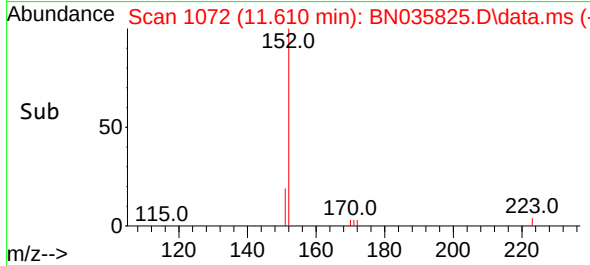
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion:152 Resp: 426
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

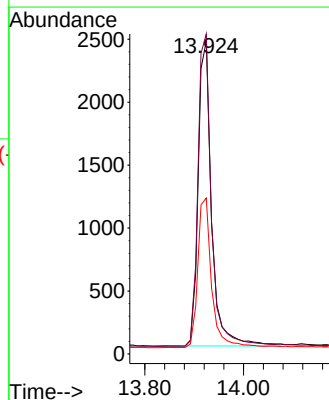
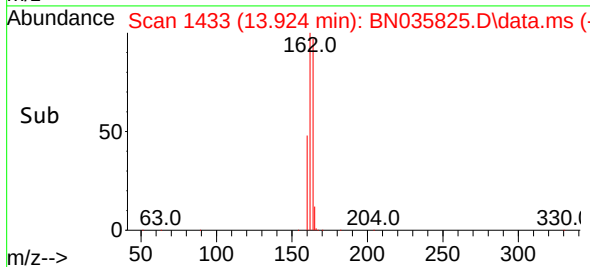
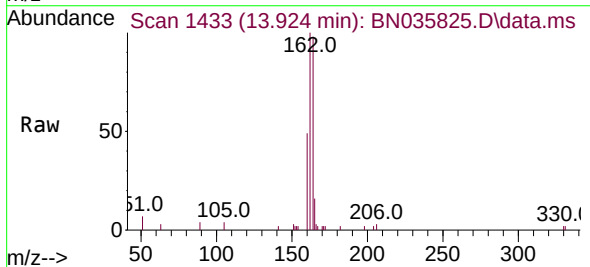
Manual Integrations
APPROVED

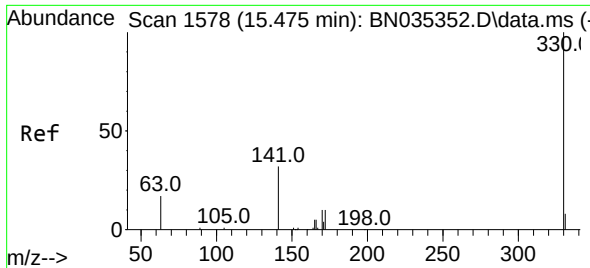
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

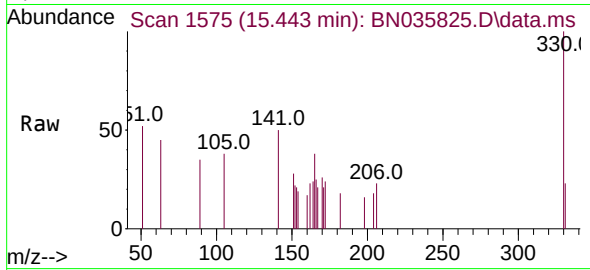
Tgt Ion:164 Resp: 4568
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 49.9 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

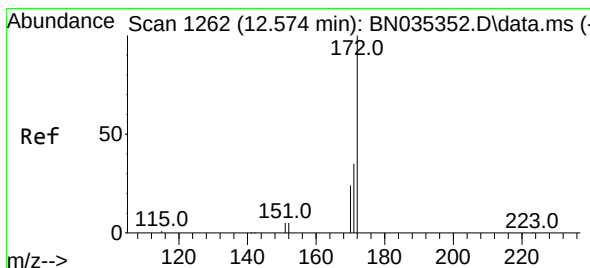
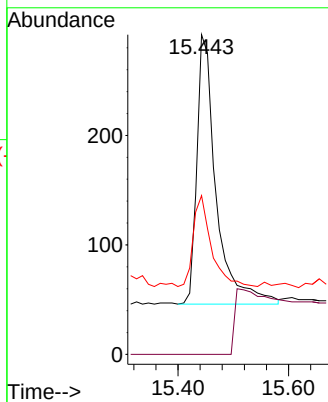
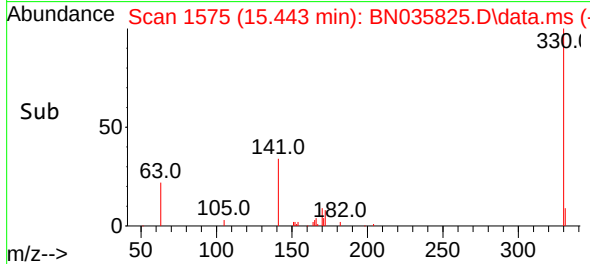
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion:330 Resp: 620
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.7 26.6 40.0

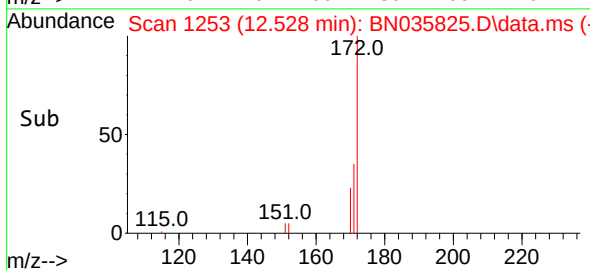
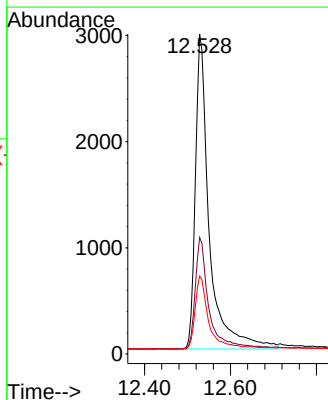
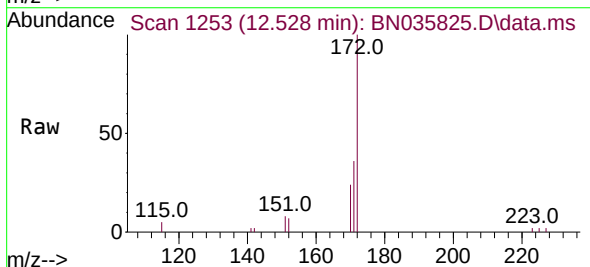
Manual Integrations
APPROVED

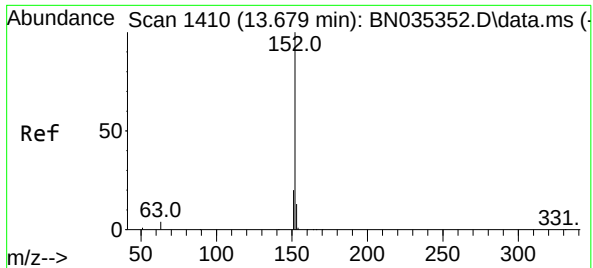
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

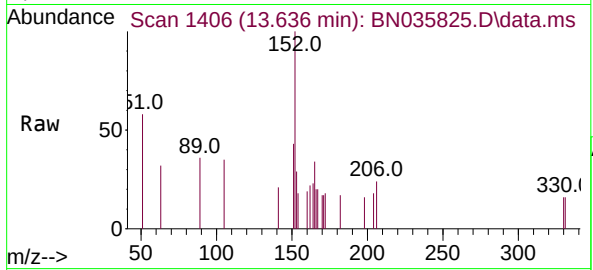
Tgt Ion:172 Resp: 6668
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 24.4 19.8 29.8





#16
Acenaphthylene
Concen: 0.021 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

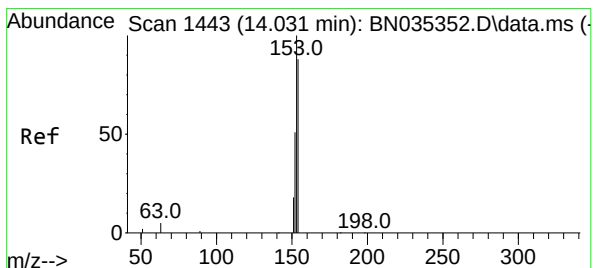
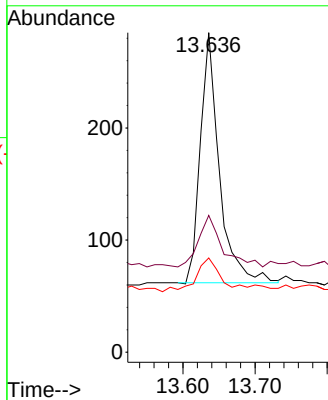
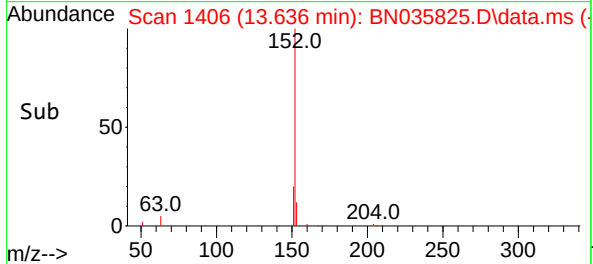
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion:152 Resp: 407
Ion Ratio Lower Upper
152 100
151 25.3 16.2 24.2
153 17.7 10.4 15.6

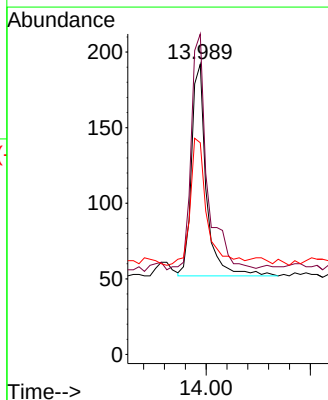
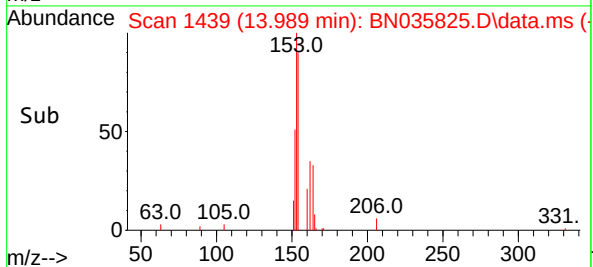
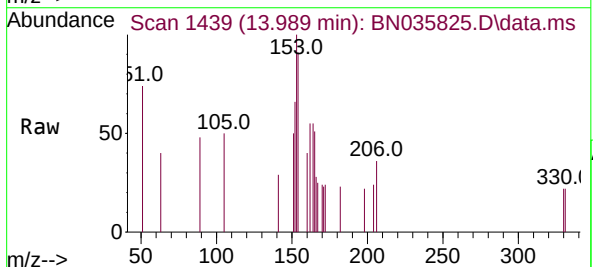
Manual Integrations
APPROVED

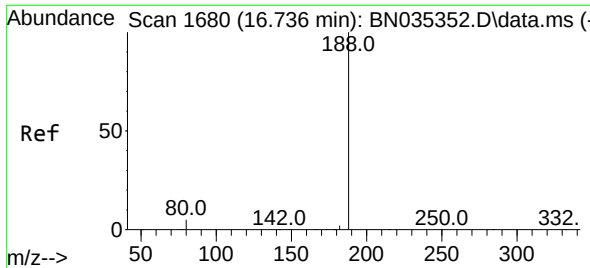
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#17
Acenaphthene
Concen: 0.022 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

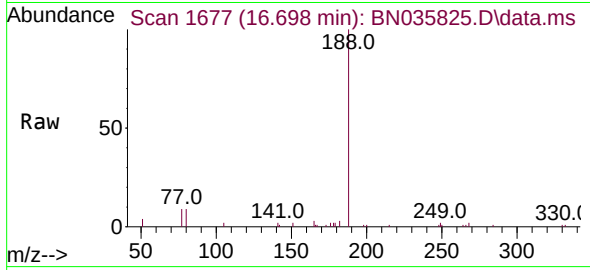
Tgt Ion:154 Resp: 278
Ion Ratio Lower Upper
154 100
153 121.9 92.6 139.0
152 67.3 49.0 73.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

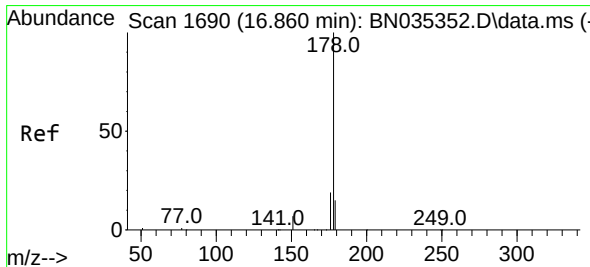
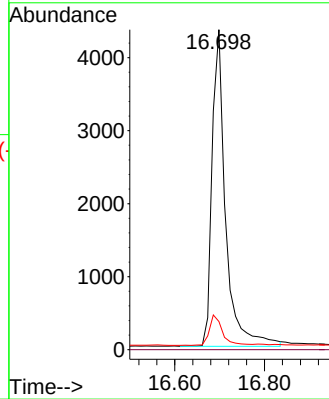
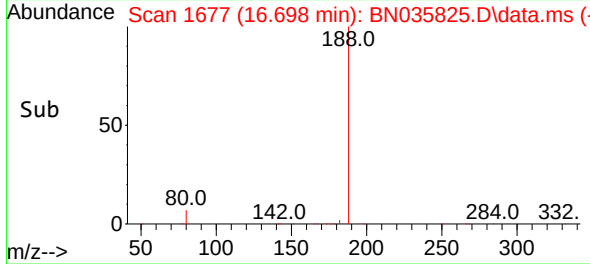
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion:188 Resp: 904
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 4.6 6.8

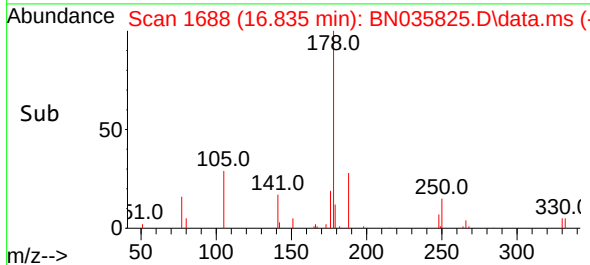
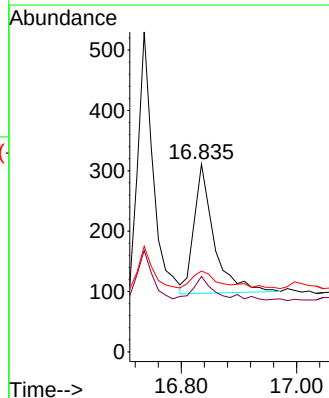
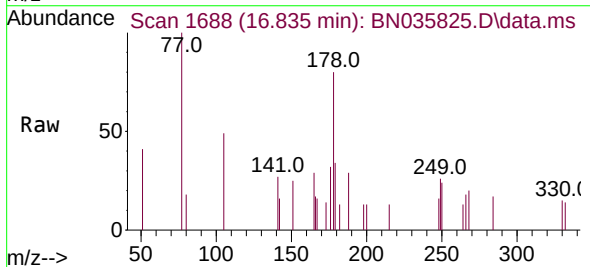
Manual Integrations
APPROVED

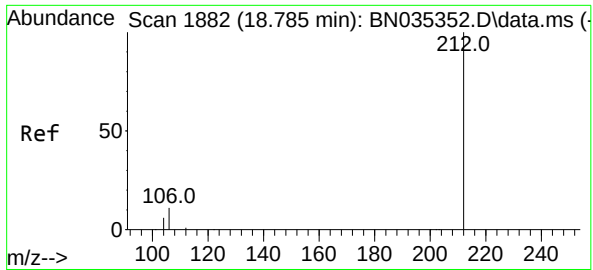
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.023 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

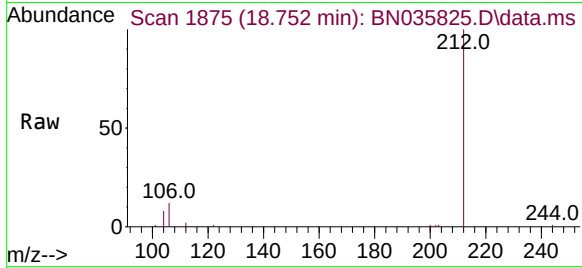
Tgt Ion:178 Resp: 519
Ion Ratio Lower Upper
178 100
176 15.4 15.0 22.6
179 23.1 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

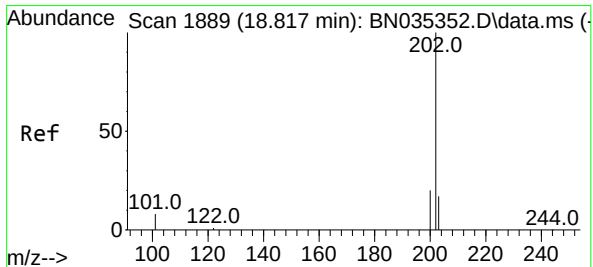
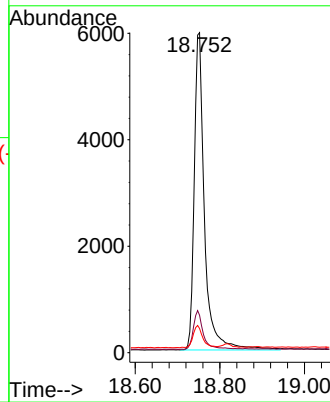
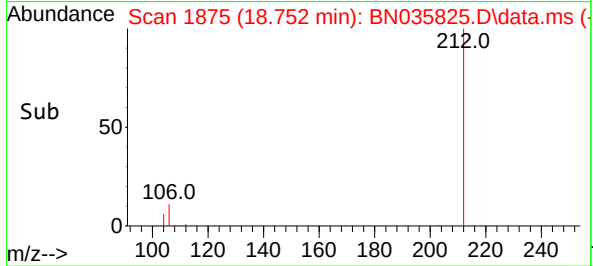
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



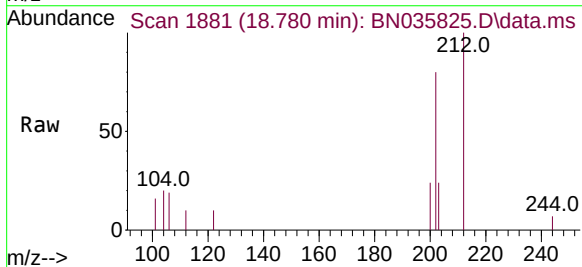
Tgt Ion:212 Resp: 1005
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.5 5.3 7.9

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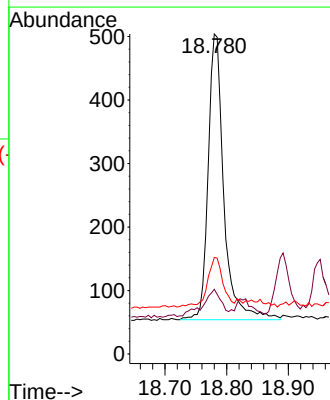
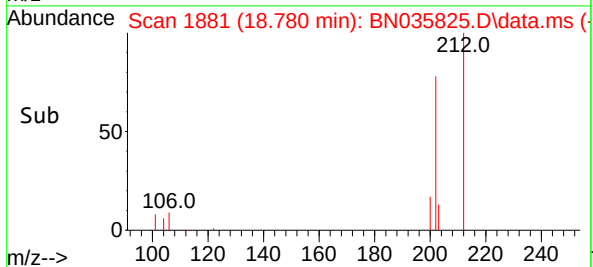
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

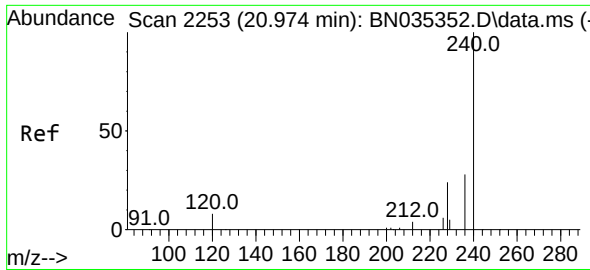


#28
Fluoranthene
Concen: 0.024 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18



Tgt Ion:202 Resp: 792
Ion Ratio Lower Upper
202 100
101 11.1 7.4 11.0#
203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035825.D

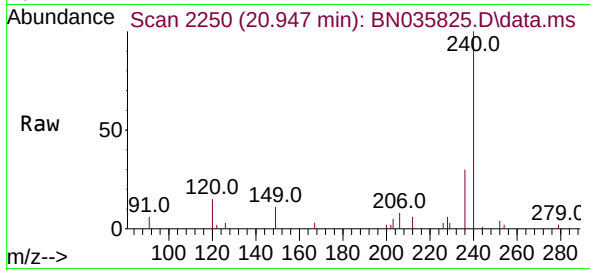
Acq: 24 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01I-20241218



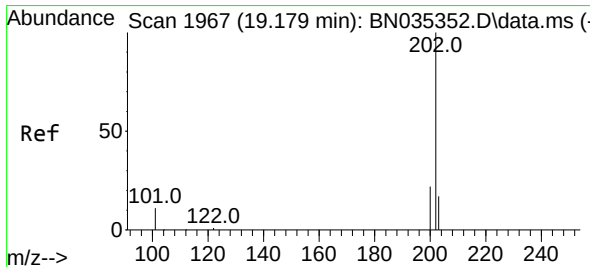
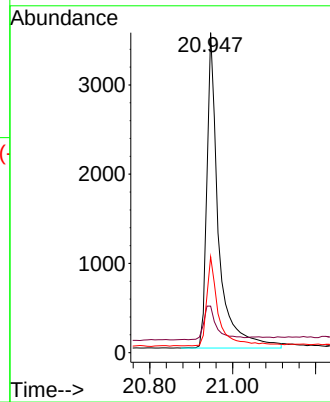
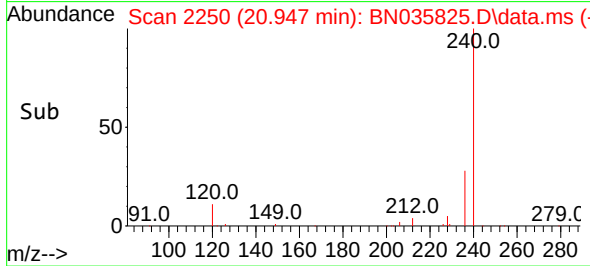
Tgt Ion:	240	Resp:	694
Ion Ratio	Lower	Upper	
240	100		
120	14.5	7.9	11.9
236	29.9	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

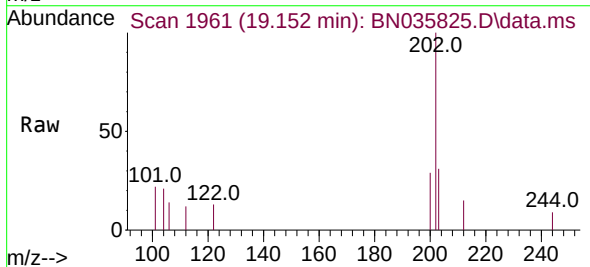
Concen: 0.030 ng

RT: 19.152 min Scan# 1961

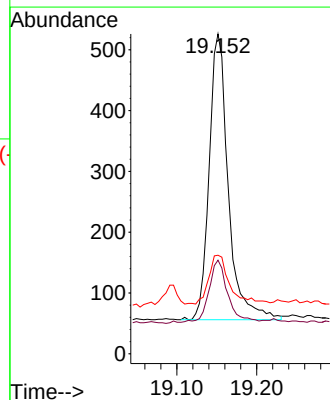
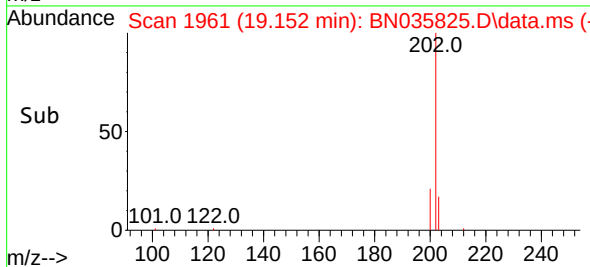
Delta R.T. -0.009 min

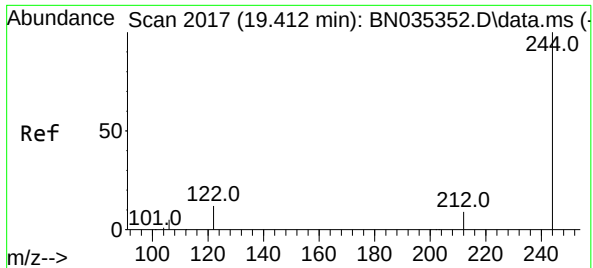
Lab File: BN035825.D

Acq: 24 Dec 2024 17:18



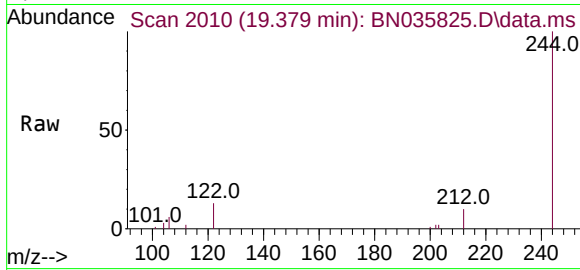
Tgt Ion:	202	Resp:	780
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.0	25.4
203	18.5	14.3	21.5





#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

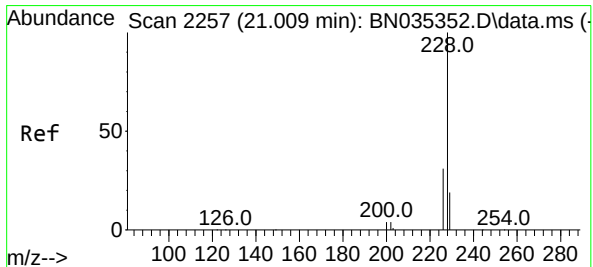
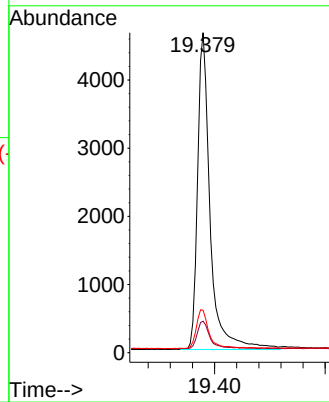
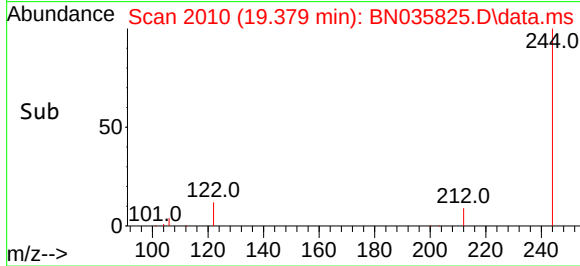
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218



Tgt Ion:244 Resp: 735
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.3 10.3 15.5

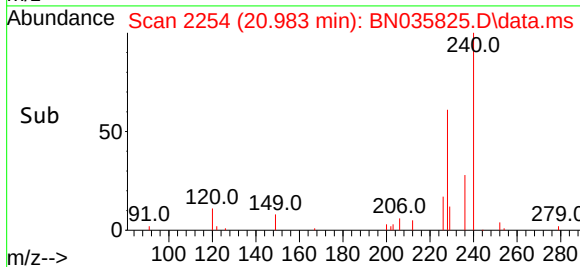
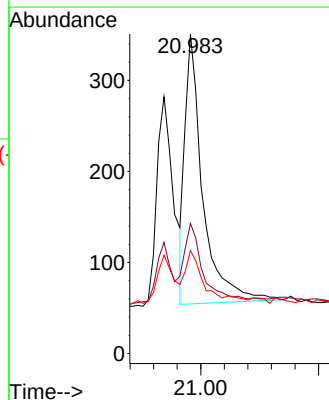
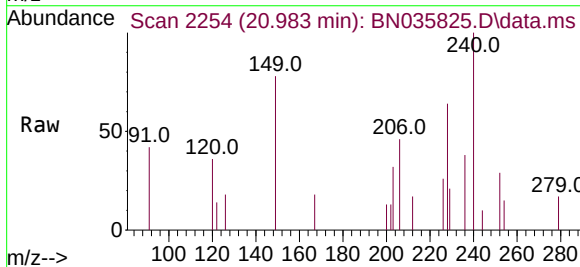
Manual Integrations
APPROVED

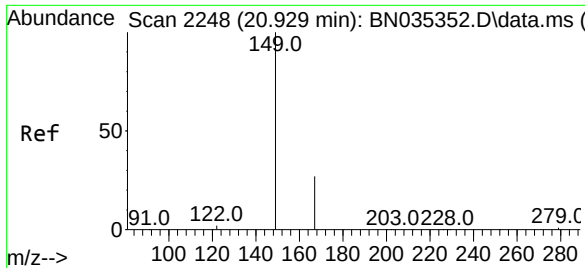
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#33
Chrysene
Concen: 0.025 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

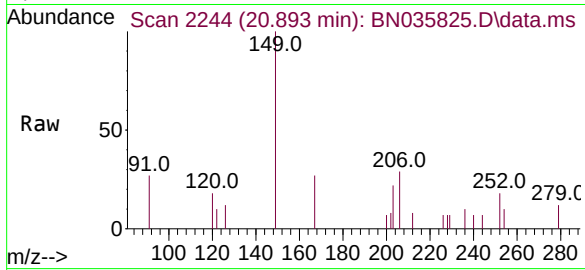
Tgt Ion:228 Resp: 620
Ion Ratio Lower Upper
228 100
226 40.7 24.6 37.0#
229 32.2 15.9 23.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

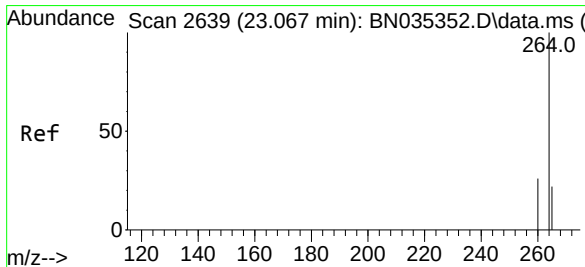
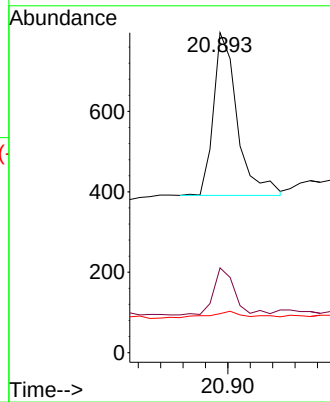
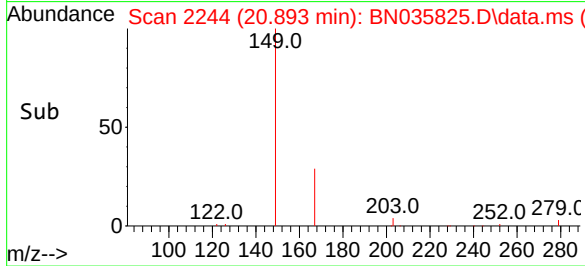
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218



Tgt Ion:149 Resp: 598
Ion Ratio Lower Upper
149 100
167 25.4 22.2 33.4
279 5.5 2.7 4.1

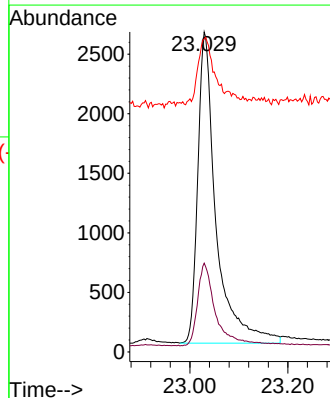
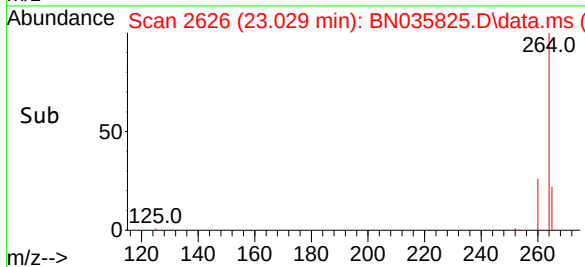
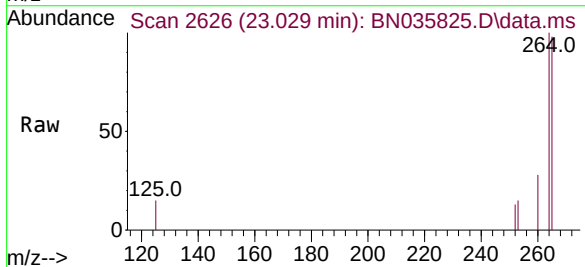
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:264 Resp: 6791
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 97.8 40.2 60.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RE117D2-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 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
BN035826.D	1	12/23/24 13:29	12/24/24 17:53	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3380		7.264			
1146-65-2	Naphthalene-d8	7930		10.009			
15067-26-2	Acenaphthene-d10	4970		13.924			
1517-22-2	Phenanthrene-d10	10400		16.698			
1719-03-5	Chrysene-d12	8530		20.947			
1520-96-3	Perylene-d12	8300		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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035826.D
 Acq On : 24 Dec 2024 17:53
 Operator : RC/JU
 Sample : P5376-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE117D2-20241218

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:20:19 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	3378	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7925	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4973	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10383	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8532	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	8295	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	971	0.115	ng	-0.01
5) Phenol-d6	6.477	99	466	0.046	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1954m	0.404	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4563	0.368	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	723	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7227	0.384	ng	-0.02
27) Fluoranthene-d10	18.747	212	12295	0.418	ng	-0.01
31) Terphenyl-d14	19.379	244	9489	0.564	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	457	0.022	ng	# 56
28) Fluoranthene	18.780	202	782	0.020	ng	# 95
30) Pyrene	19.151	202	811	0.026	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1313	0.111	ng	93

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

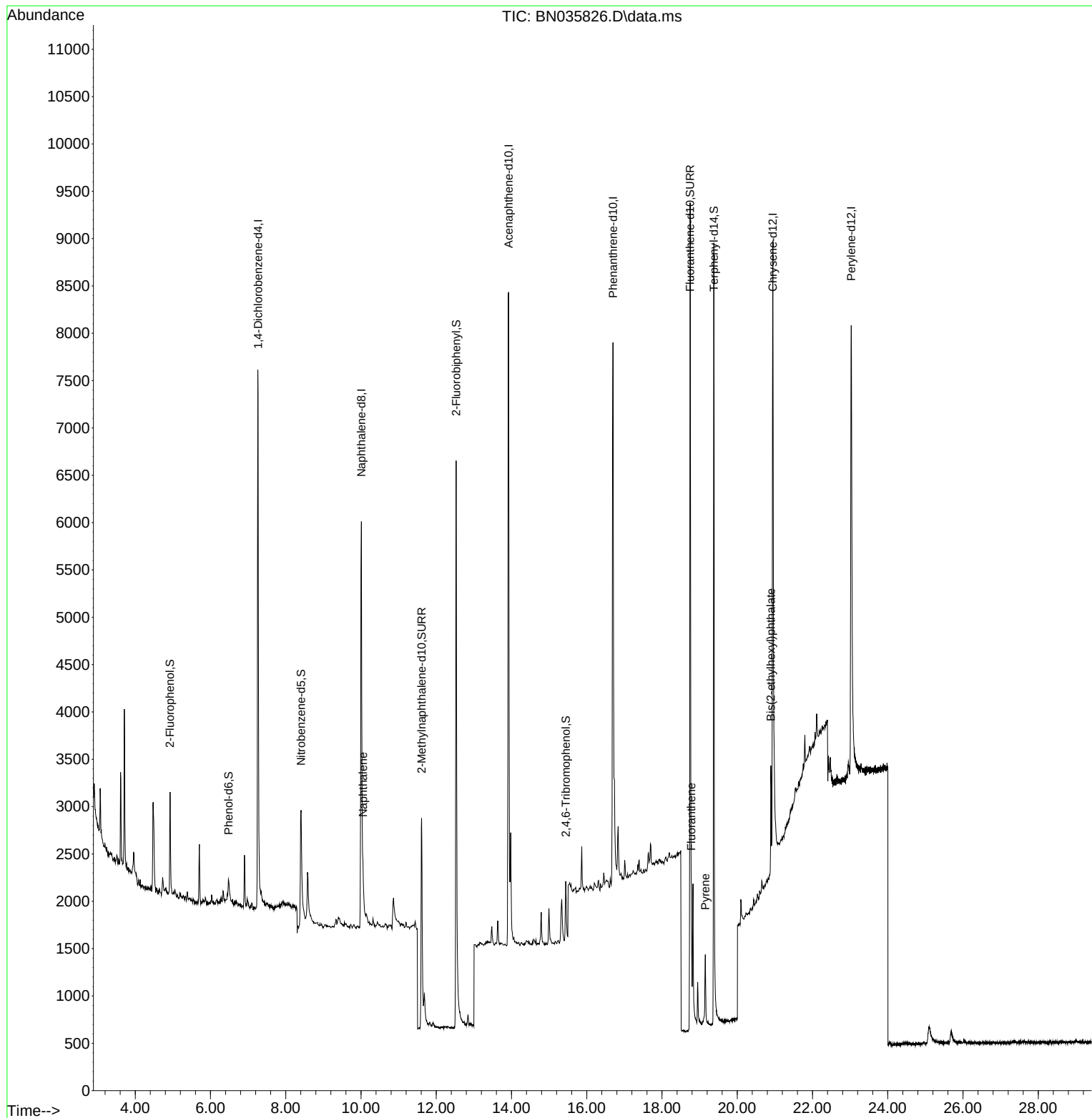
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Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

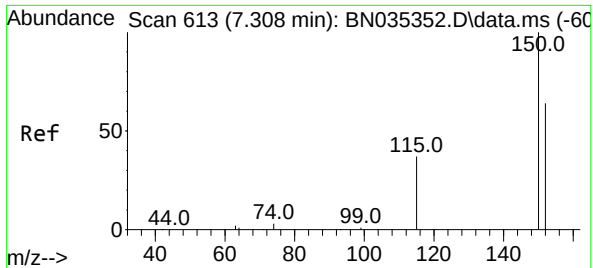
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

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

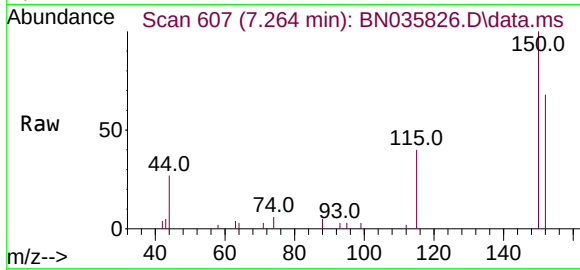
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

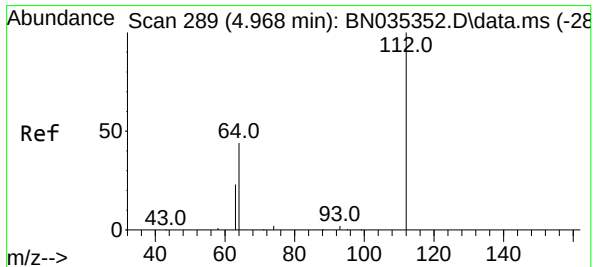
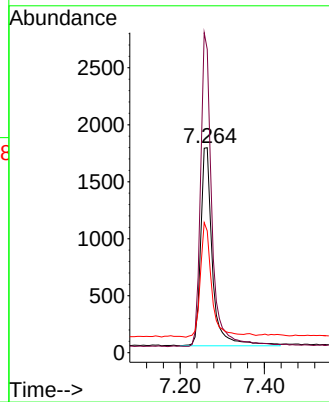
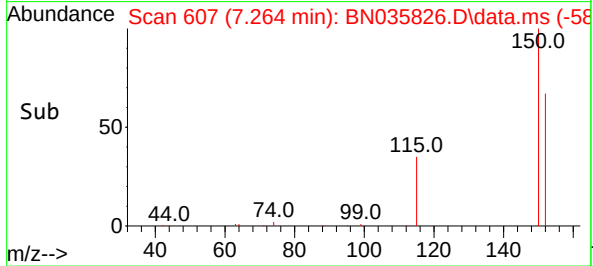
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:152 Resp: 3378
Ion Ratio Lower Upper
152 100
150 148.1 124.0 186.0
115 59.4 49.6 74.4

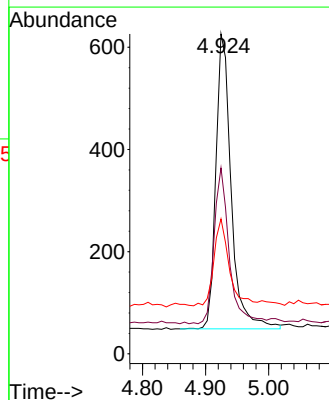
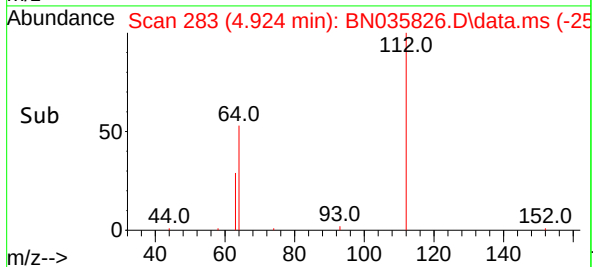
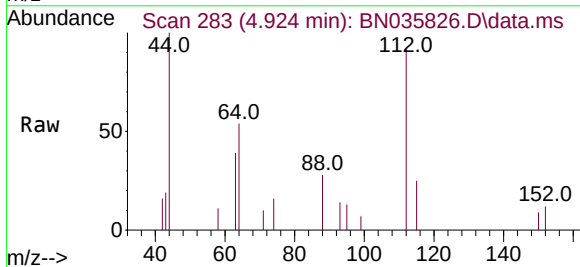
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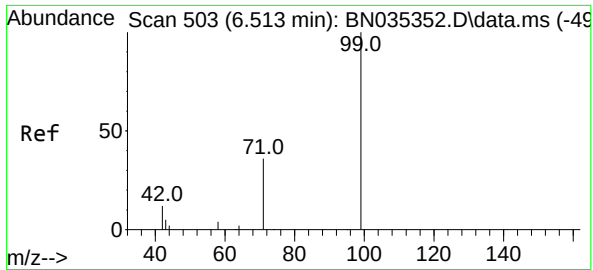
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.115 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

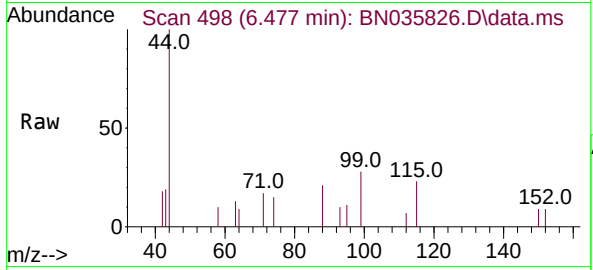
Tgt Ion:112 Resp: 971
Ion Ratio Lower Upper
112 100
64 52.3 39.8 59.8
63 29.4 21.0 31.6





#5
Phenol-d6
Concen: 0.046 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

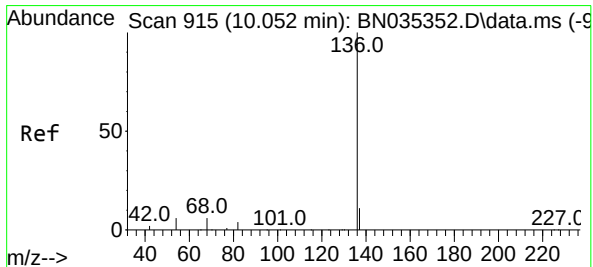
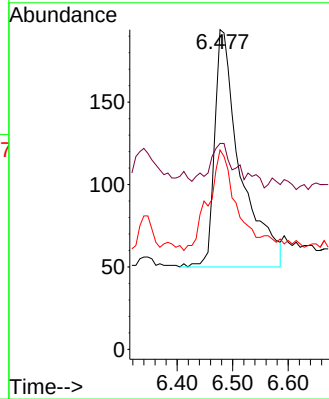
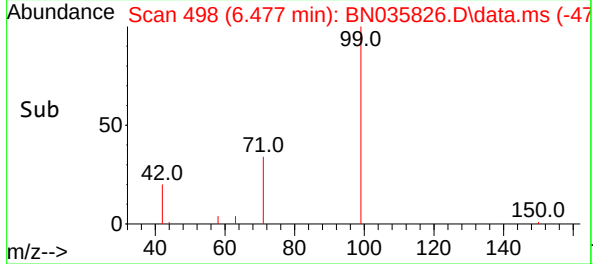
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion: 99 Resp: 460
Ion Ratio Lower Upper
99 100
42 20.2 11.4 17.2
71 44.6 29.3 43.9

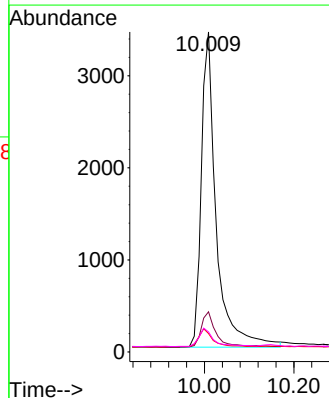
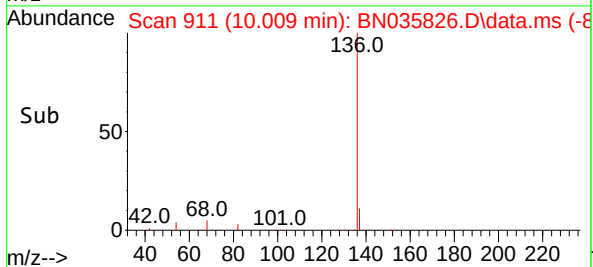
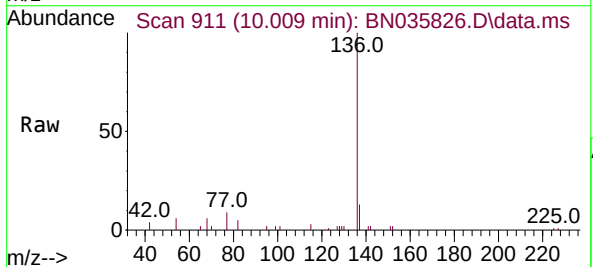
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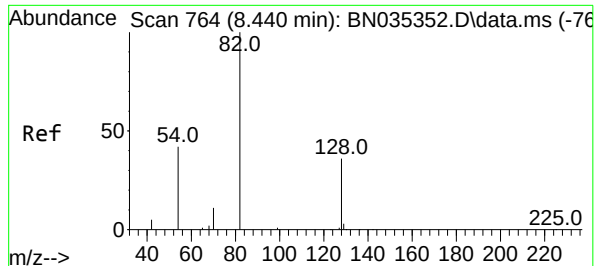
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:136 Resp: 7925
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 5.8 6.1 9.1#
68 6.2 6.4 9.6#





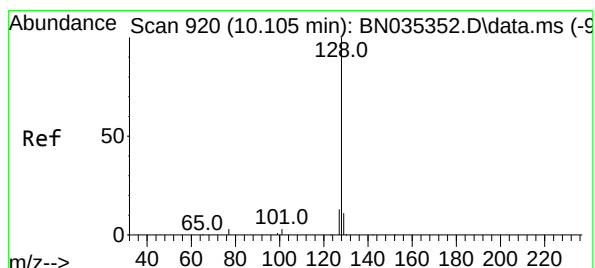
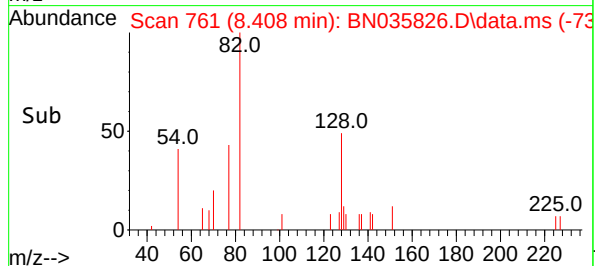
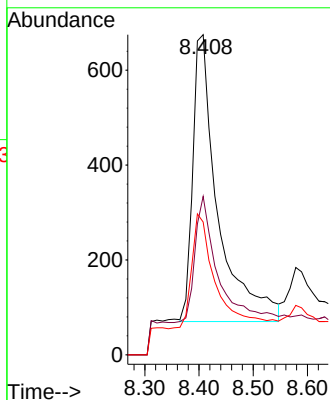
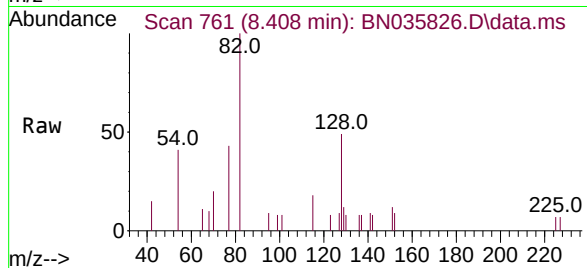
#8
Nitrobenzene-d5
Concen: 0.404 ng m
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion: 82 Resp: 1954
Ion Ratio Lower Upper
82 100
128 49.5 33.4 50.0
54 41.5 36.7 55.1

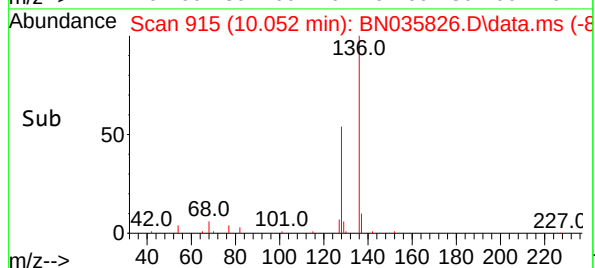
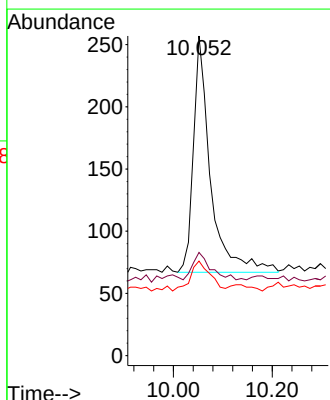
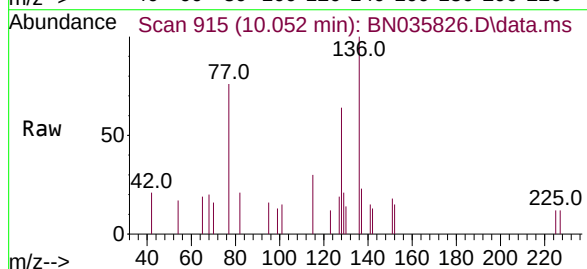
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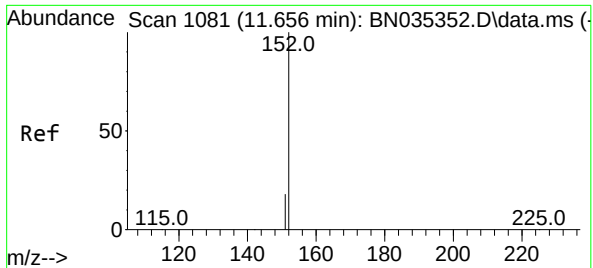
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#9
Naphthalene
Concen: 0.022 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

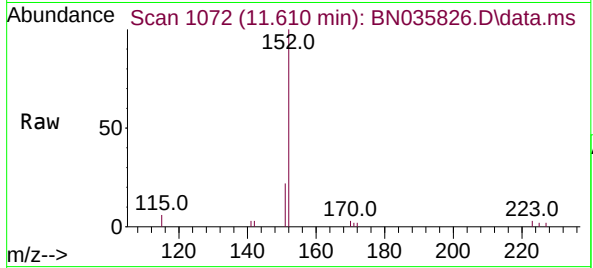
Tgt Ion:128 Resp: 457
Ion Ratio Lower Upper
128 100
129 32.3 9.8 14.6#
127 29.6 11.4 17.2#





#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.610 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

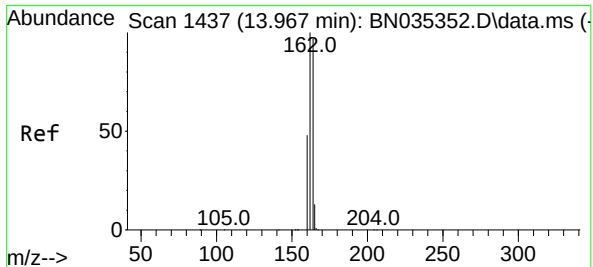
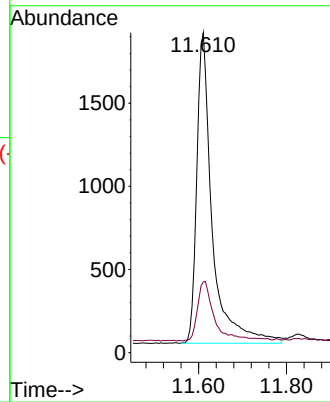
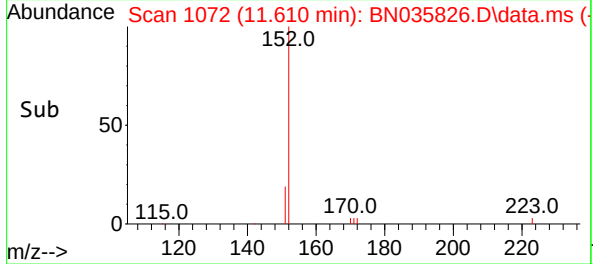
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:152 Resp: 456
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0

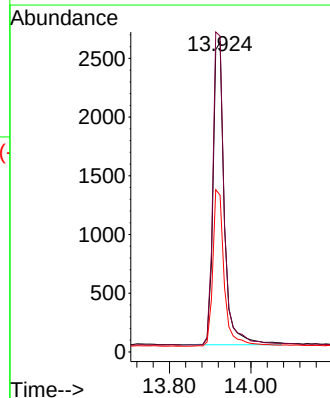
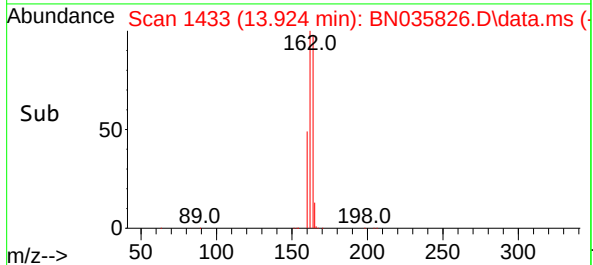
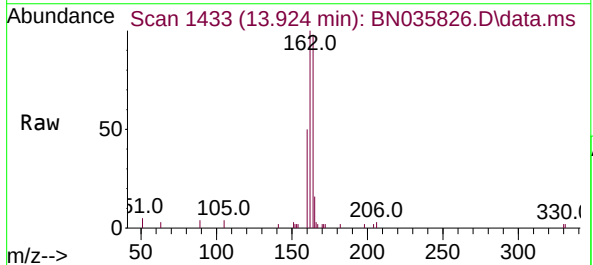
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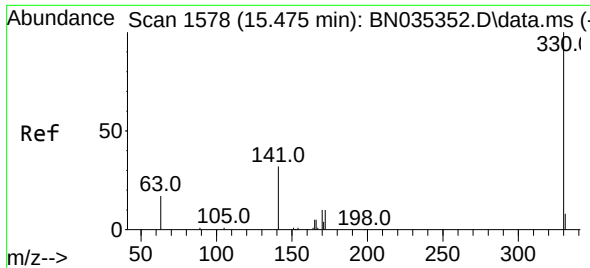
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

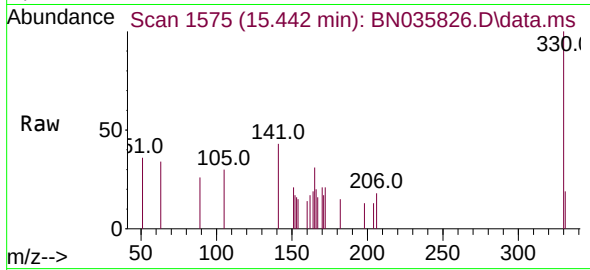
Tgt Ion:164 Resp: 4973
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 50.6 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.442 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

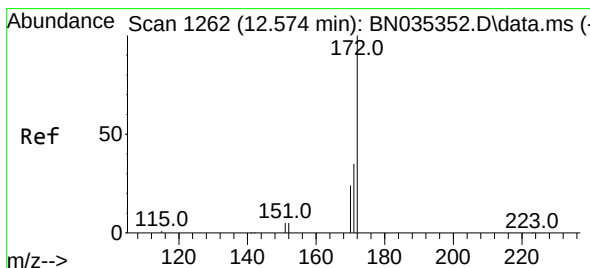
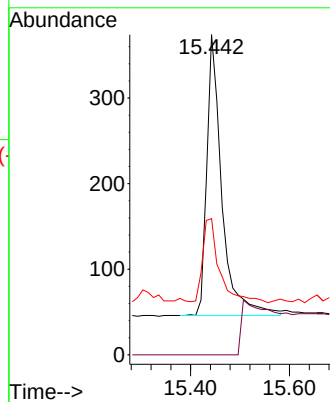
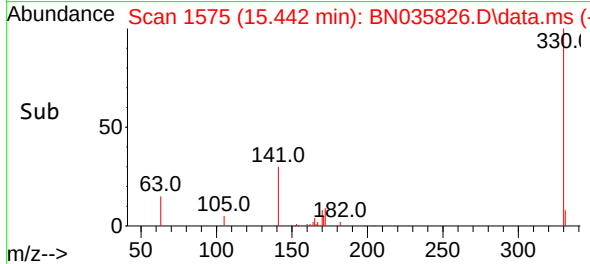
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:330 Resp: 72
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.2 26.6 40.0

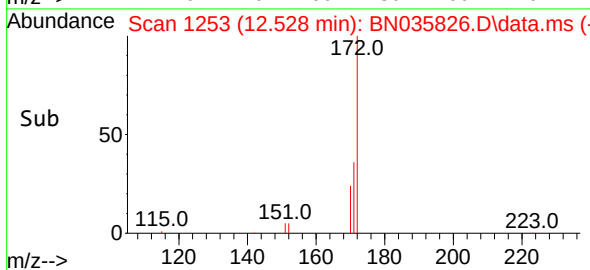
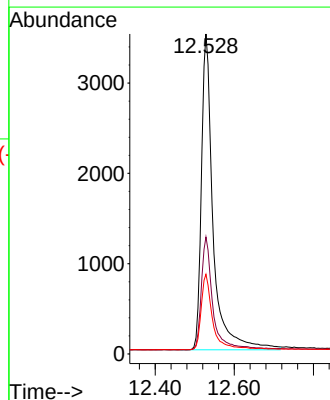
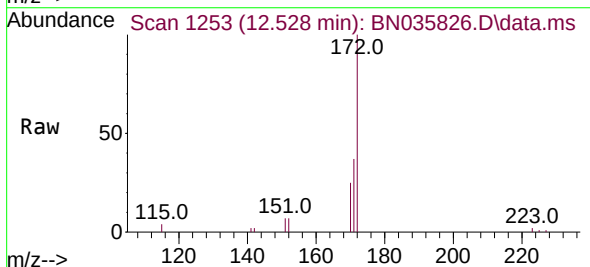
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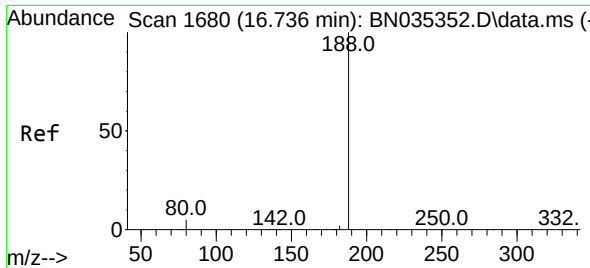
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

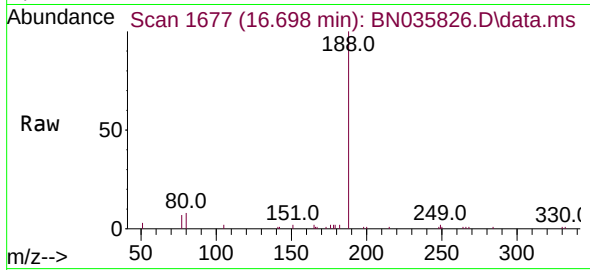
Tgt Ion:172 Resp: 7227
Ion Ratio Lower Upper
172 100
171 36.6 29.0 43.4
170 24.9 19.8 29.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

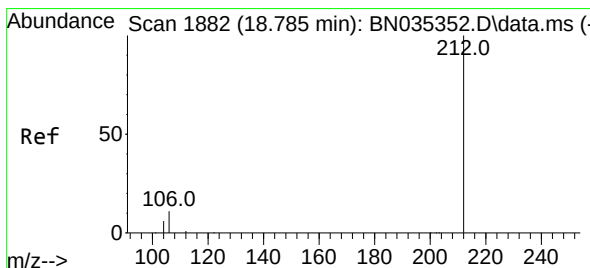
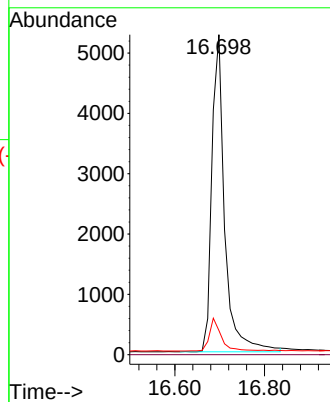
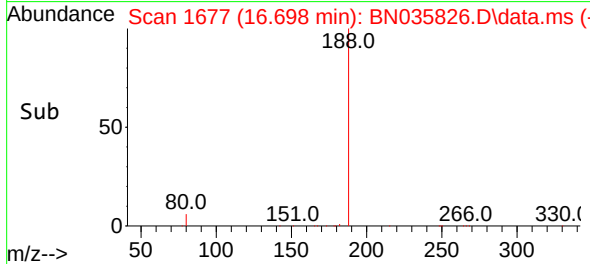
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:188 Resp: 1038
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.6 4.6 6.8

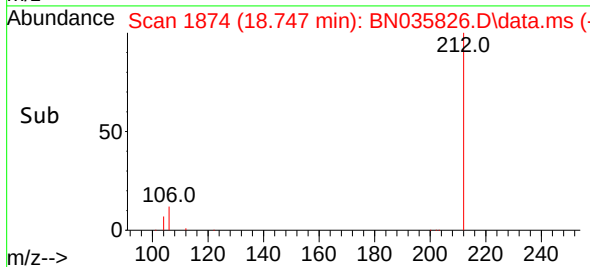
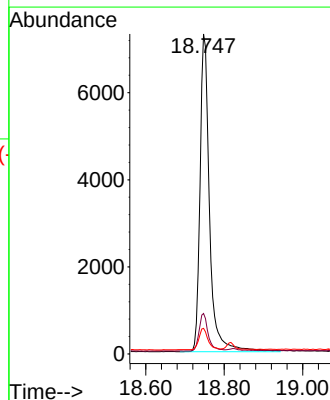
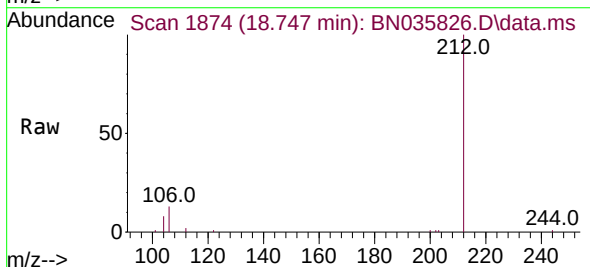
Manual Integrations
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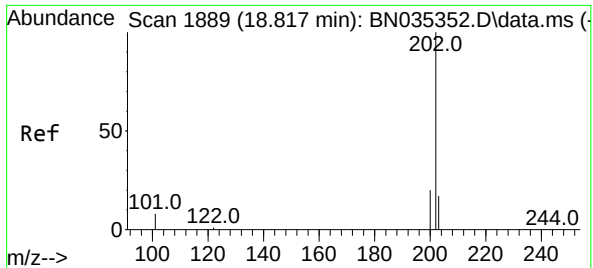
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

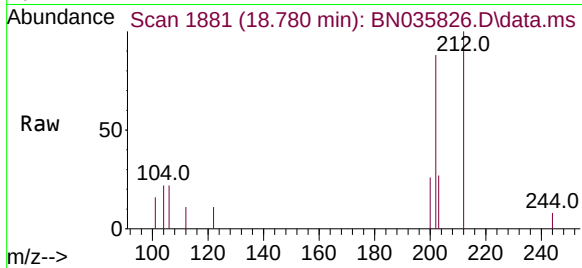
Tgt Ion:212 Resp: 12295
Ion Ratio Lower Upper
212 100
106 11.2 9.2 13.8
104 6.3 5.3 7.9





#28
Fluoranthene
Concen: 0.020 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

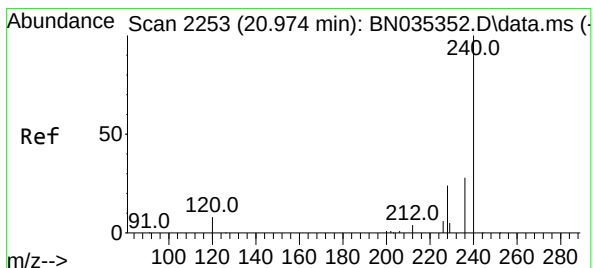
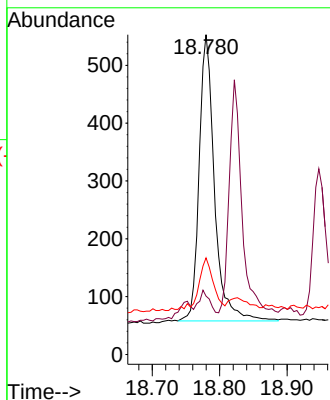
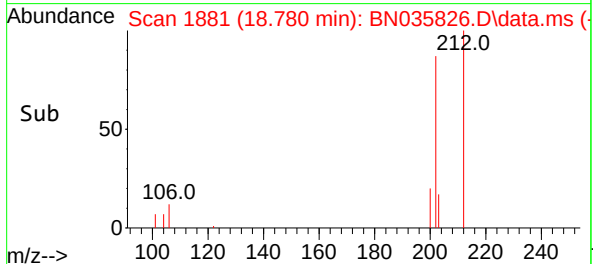
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:202 Resp: 782
Ion Ratio Lower Upper
202 100
101 5.5 7.4 11.0#
203 18.2 13.7 20.5

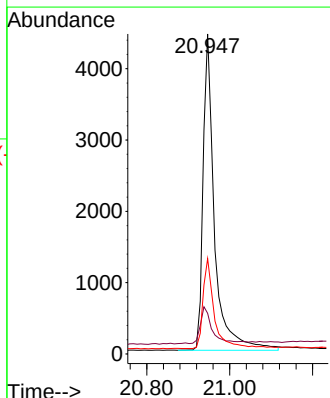
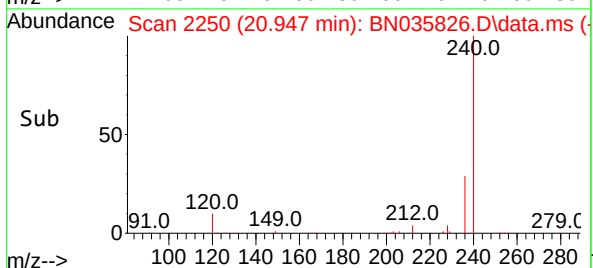
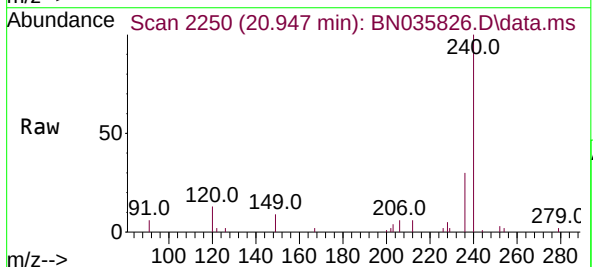
Manual Integrations
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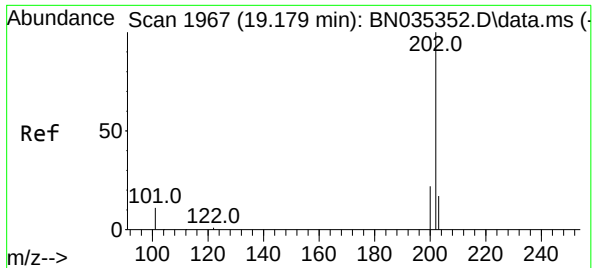
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

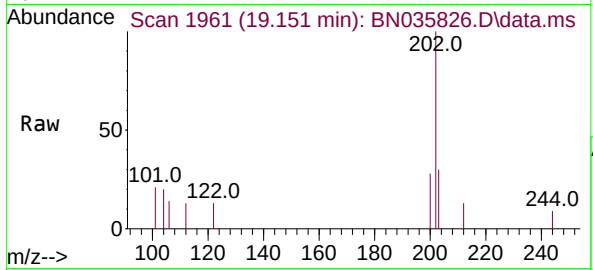
Tgt Ion:240 Resp: 8532
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9#
236 29.8 22.9 34.3





#30
Pyrene
Concen: 0.026 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

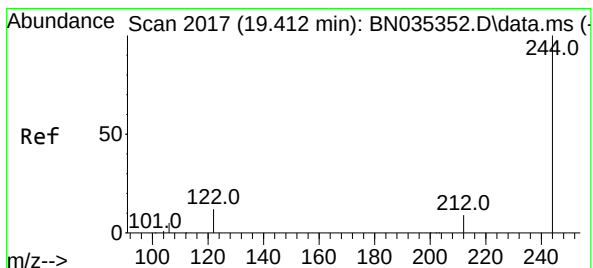
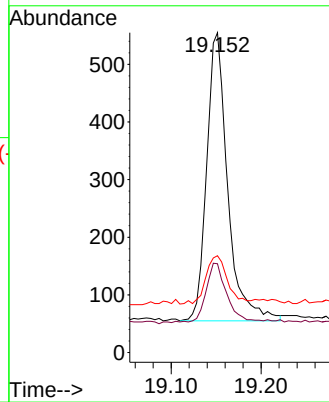
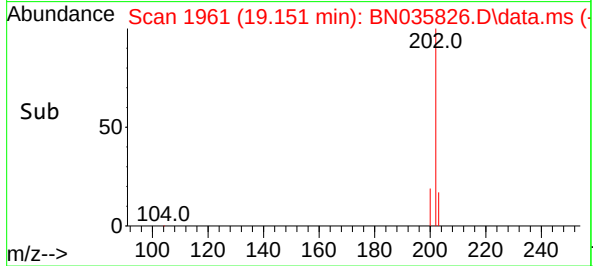
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:202 Resp: 81
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.4
203 16.8 14.3 21.5

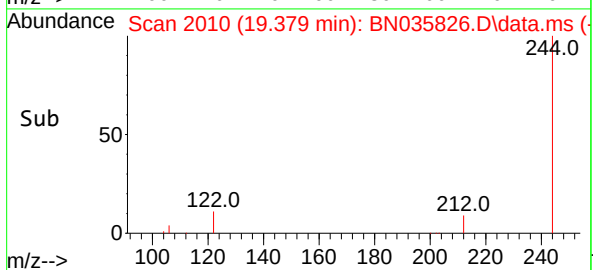
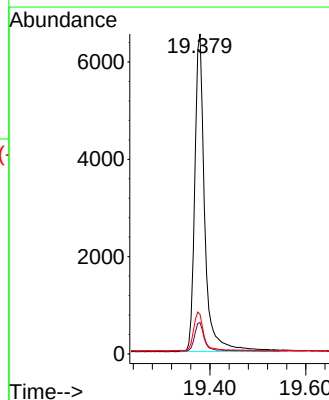
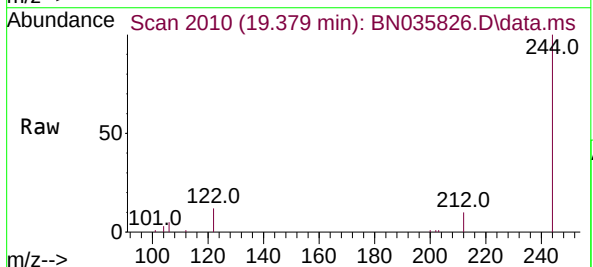
Manual Integrations
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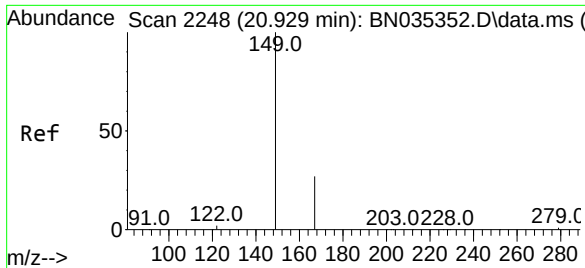
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

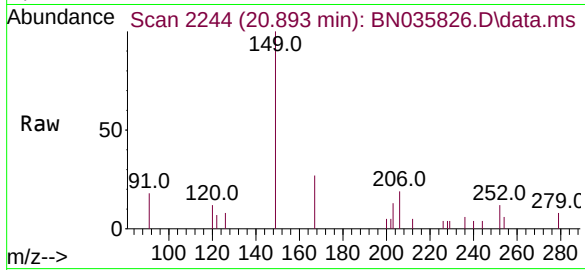
Tgt Ion:244 Resp: 9489
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 12.3 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

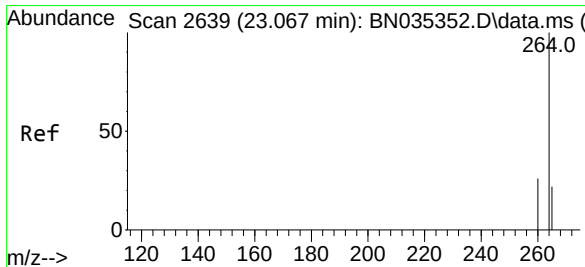
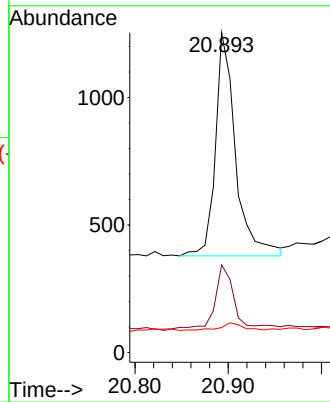
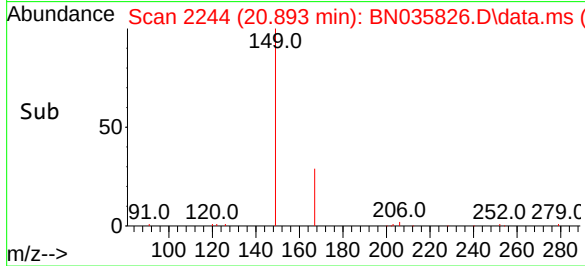
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:149 Resp: 131
Ion Ratio Lower Upper
149 100
167 23.5 22.2 33.4
279 3.8 2.7 4.1

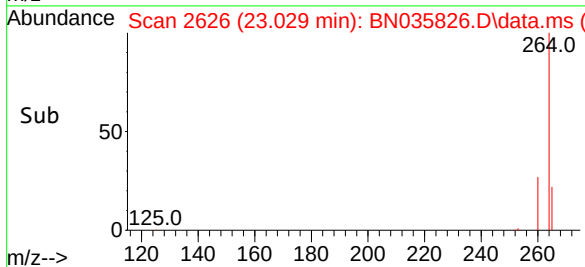
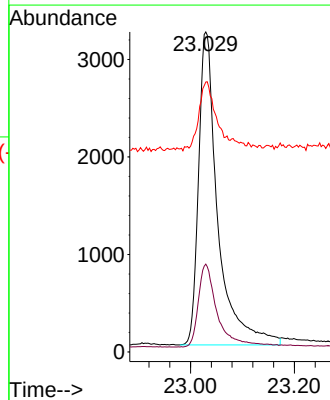
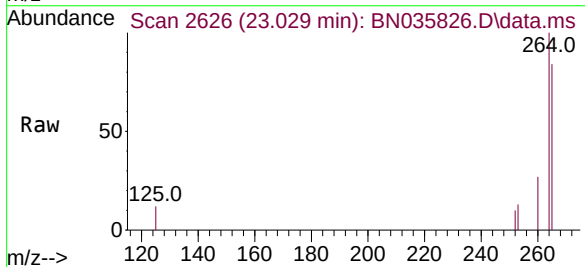
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:264 Resp: 8295
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 84.4 40.2 60.4#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/20/24
Client Sample ID:	TT161S1-20241219		SDG No.:	P5376
Lab Sample ID:	P5376-14		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
BN035827.D	1	12/23/24 13:29	12/24/24 18:29	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		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	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	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	3270		7.264			
1146-65-2	Naphthalene-d8	7880		10.009			
15067-26-2	Acenaphthene-d10	4840		13.924			
1517-22-2	Phenanthrene-d10	9400		16.698			
1719-03-5	Chrysene-d12	7090		20.947			
1520-96-3	Perylene-d12	6740		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 : BN035827.D
 Acq On : 24 Dec 2024 18:29
 Operator : RC/JU
 Sample : P5376-14
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT161S1-20241219

Manual Integrations
APPROVED

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

Quant Time: Dec 24 23:20:32 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	3265	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7883	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4842	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9395	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7091	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6735	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	907	0.111	ng	-0.01
5) Phenol-d6	6.484	99	487	0.050	ng	0.00
8) Nitrobenzene-d5	8.408	82	2033m	0.422	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4487	0.364	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	681	0.198	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7221	0.395	ng	-0.02
27) Fluoranthene-d10	18.747	212	10577	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	7825	0.559	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1019	0.326	ng	# 95
34) Bis(2-ethylhexyl)phtha...	20.893	149	896	0.091	ng	# 98

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

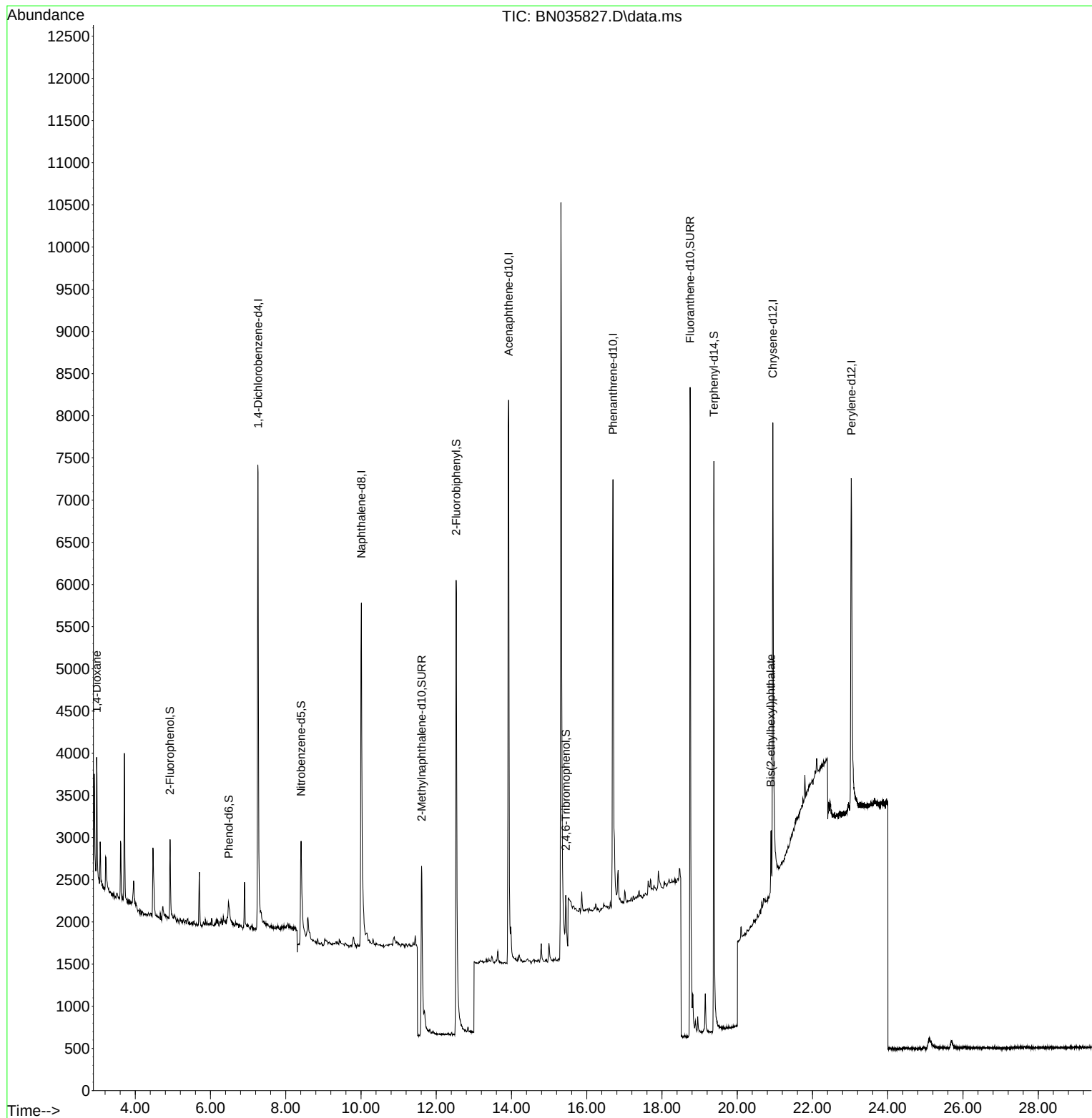
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Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

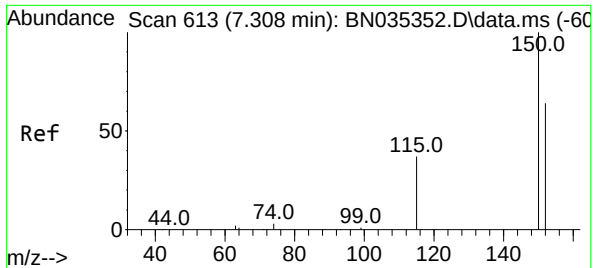
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

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

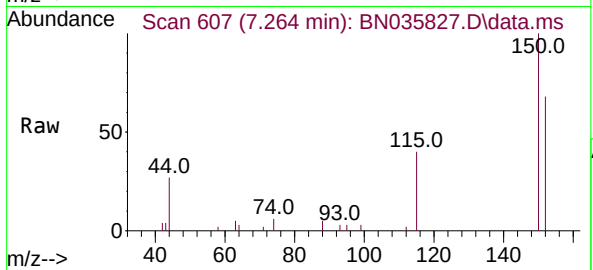
Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

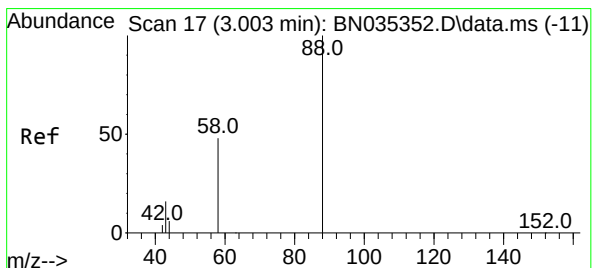
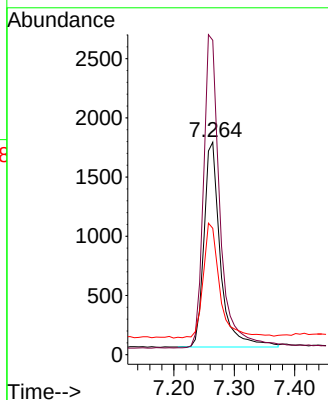
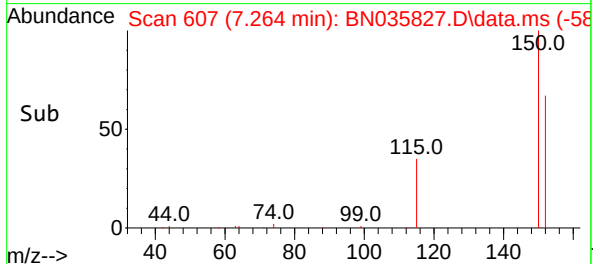
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219



Tgt Ion: 152 Resp: 326
Ion Ratio Lower Upper
152 100
150 148.0 124.0 186.0
115 59.5 49.6 74.4

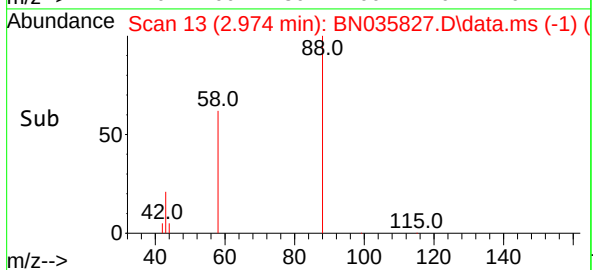
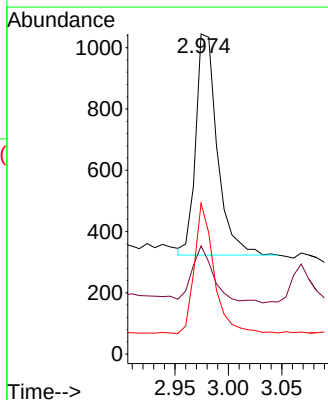
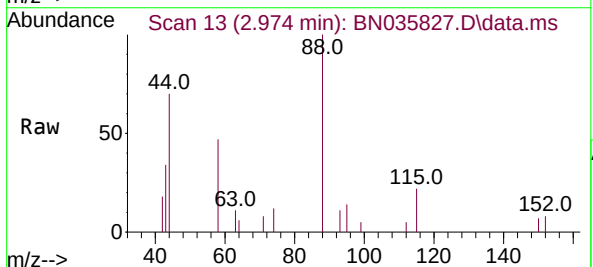
Manual Integrations
APPROVED

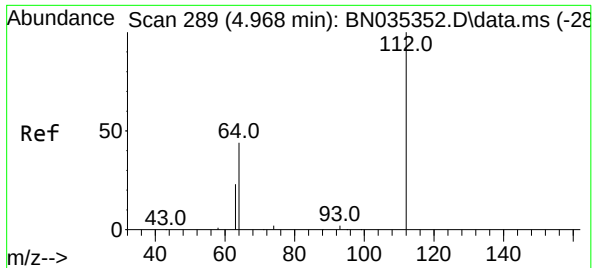
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.326 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 88 Resp: 1019
Ion Ratio Lower Upper
88 100
43 26.0 17.2 25.8#
58 53.1 44.5 66.7





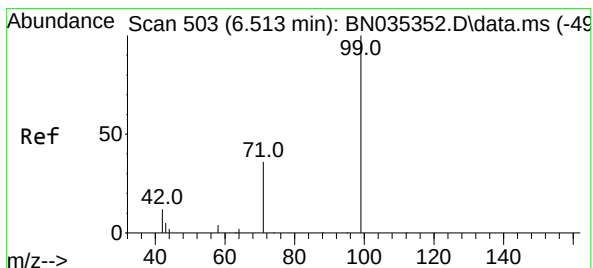
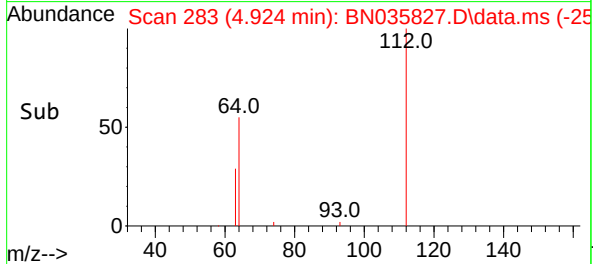
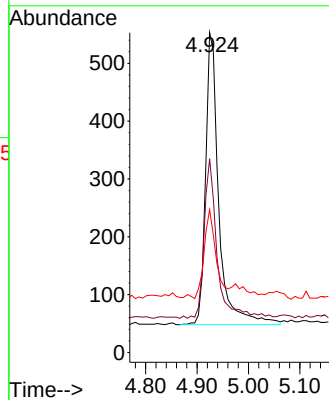
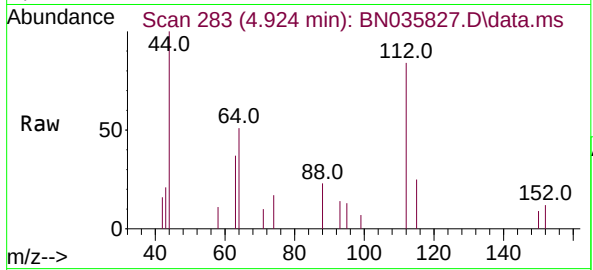
#4
2-Fluorophenol
Concen: 0.111 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	39.8	59.8
63	26.7	21.0	31.6

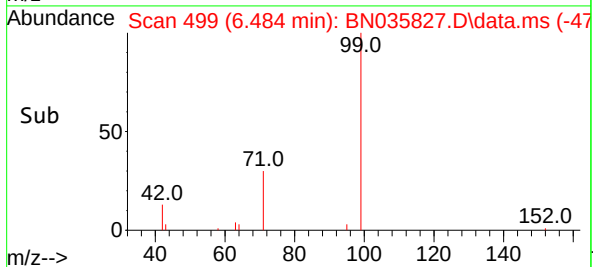
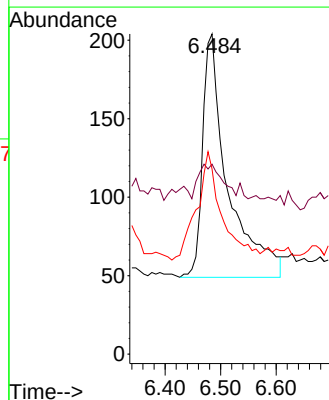
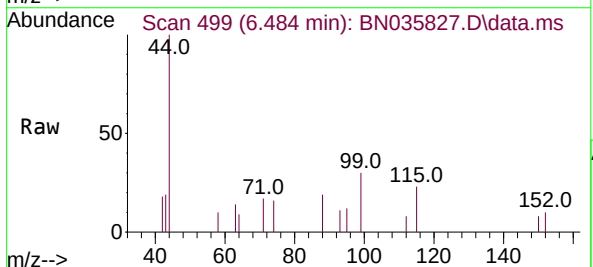
Manual Integrations
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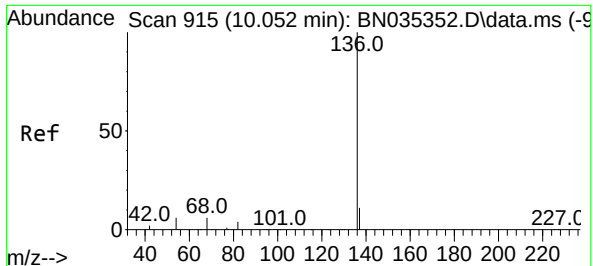
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.050 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion	Ratio	Lower	Upper
99	100		
42	13.3	11.4	17.2
71	44.6	29.3	43.9





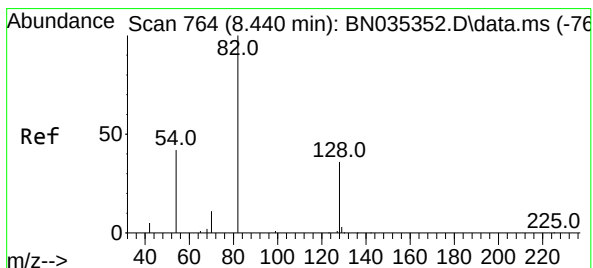
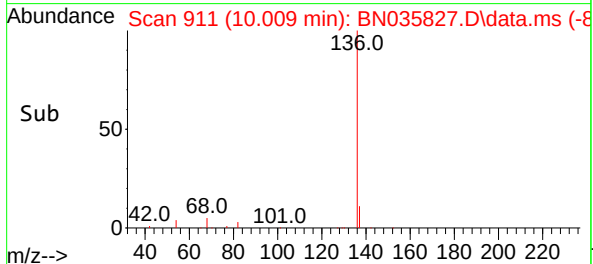
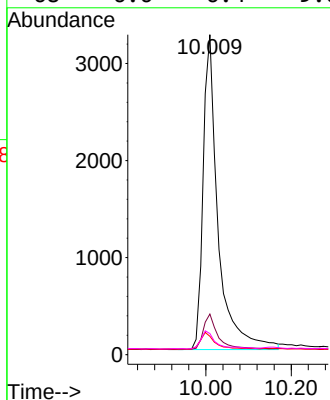
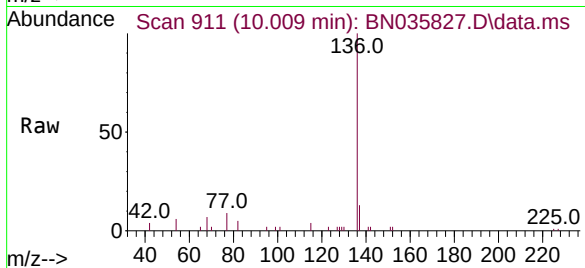
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:136 Resp: 788
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 5.7 6.1 9.1
68 6.6 6.4 9.6

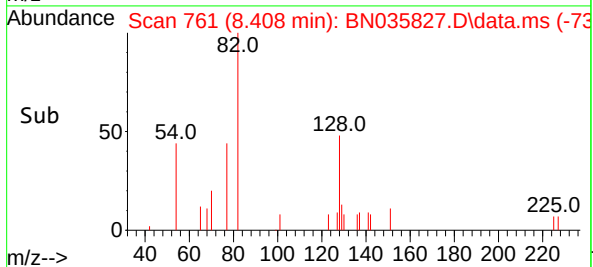
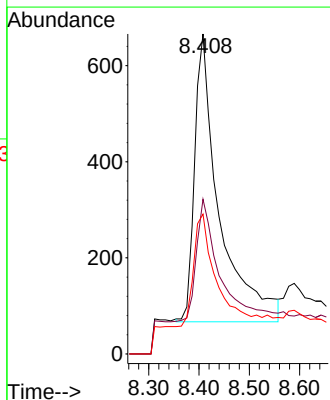
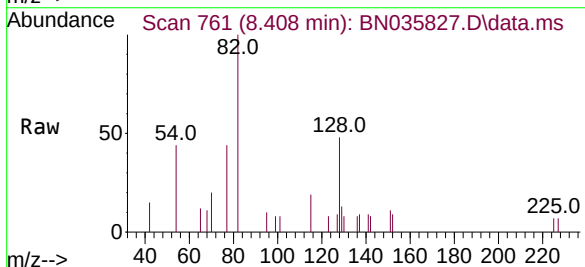
Manual Integrations
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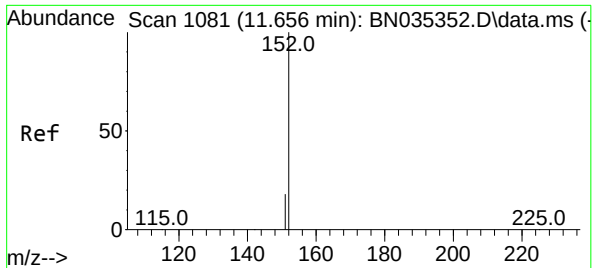
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.422 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

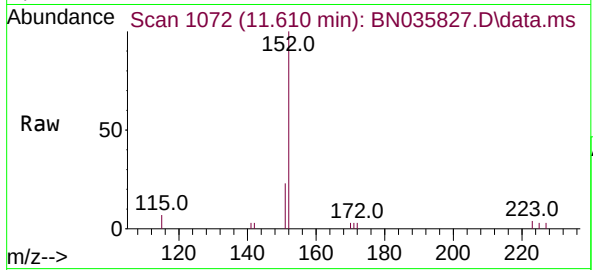
Tgt Ion: 82 Resp: 2033
Ion Ratio Lower Upper
82 100
128 48.3 33.4 50.0
54 43.7 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.610 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

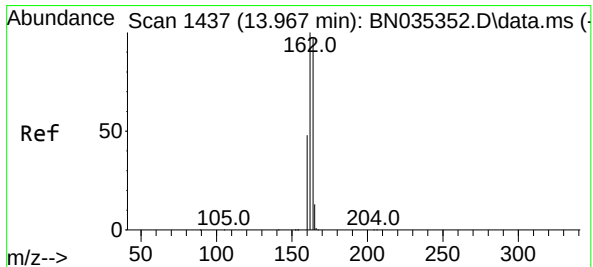
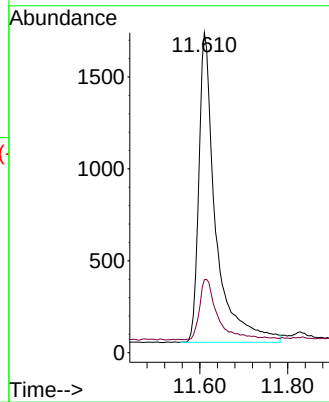
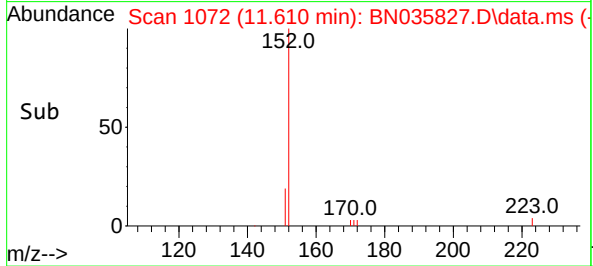
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219



Tgt Ion:152 Resp: 448
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

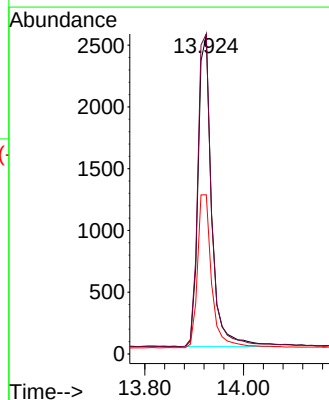
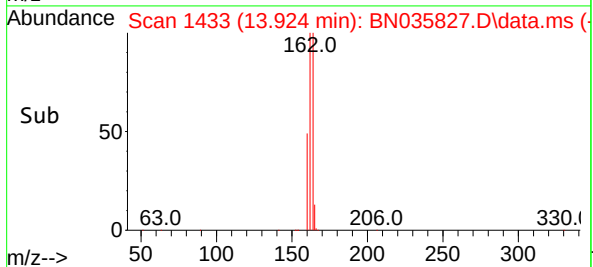
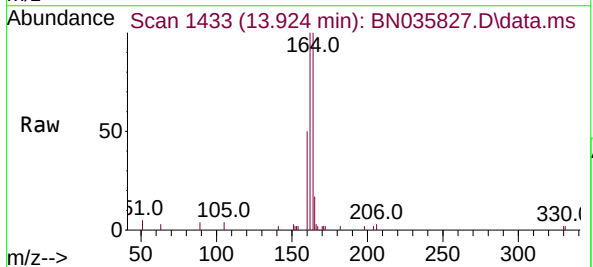
Manual Integrations
APPROVED

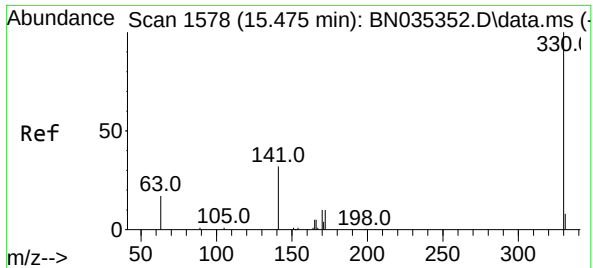
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

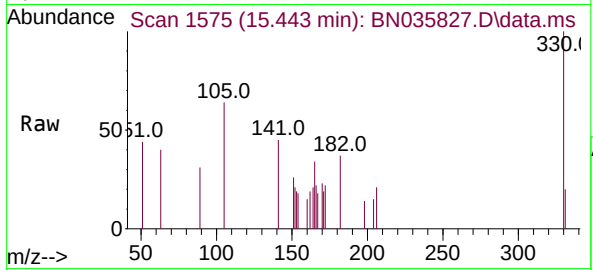
Tgt Ion:164 Resp: 4842
Ion Ratio Lower Upper
164 100
162 100.3 82.2 123.2
160 49.9 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

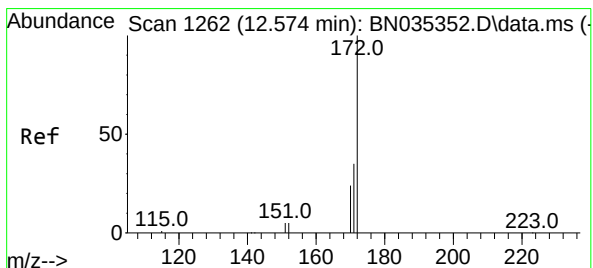
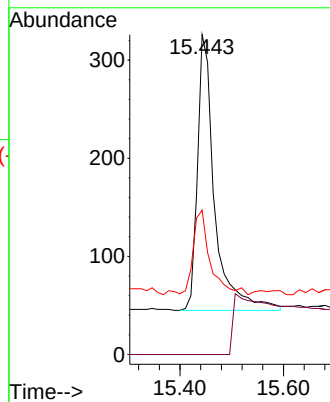
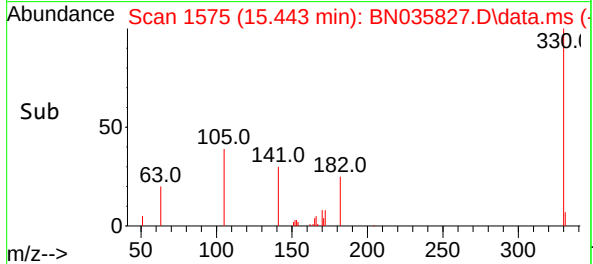
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219



Tgt Ion:330 Resp: 68
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.8 26.6 40.0

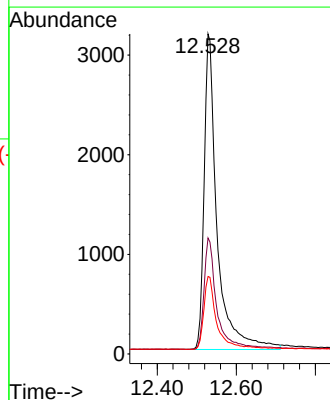
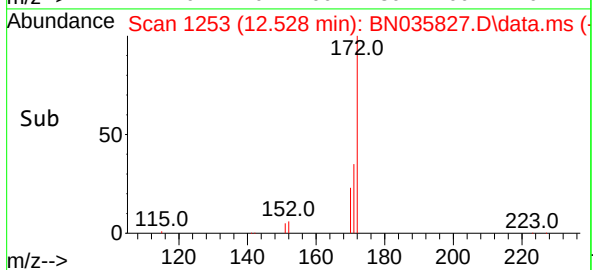
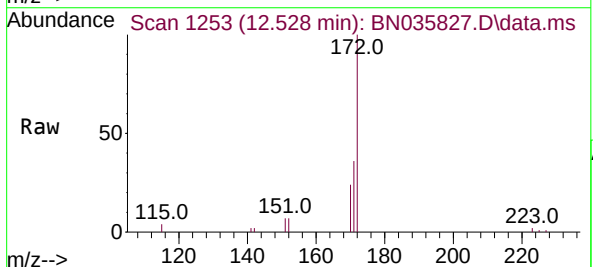
Manual Integrations
APPROVED

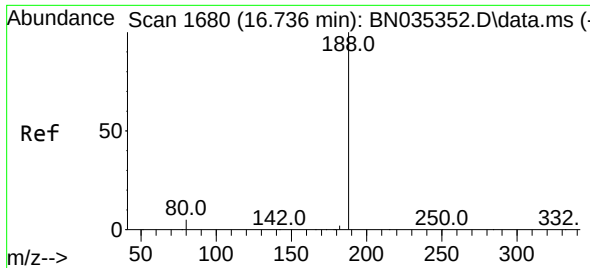
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:172 Resp: 7221
Ion Ratio Lower Upper
172 100
171 36.3 29.0 43.4
170 24.2 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: BN035827.D

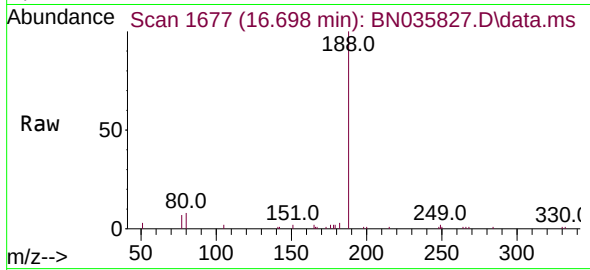
Acq: 24 Dec 2024 18:29

Instrument :

BNA_N

ClientSampleId :

TT161S1-20241219



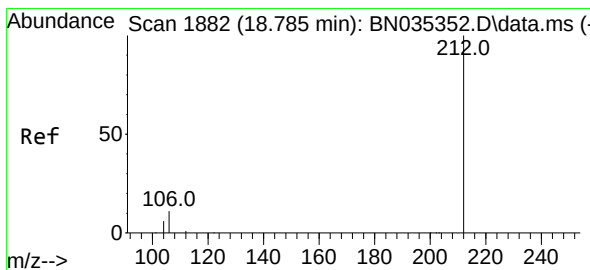
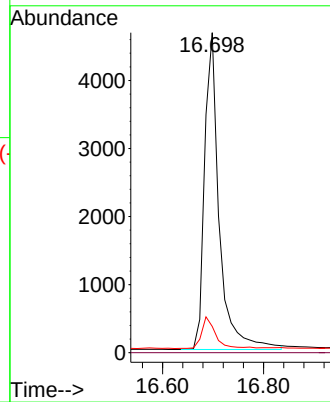
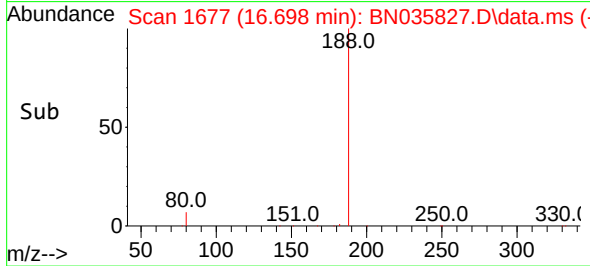
Tgt Ion:188	Resp:	939
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.2	4.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#27

Fluoranthene-d10

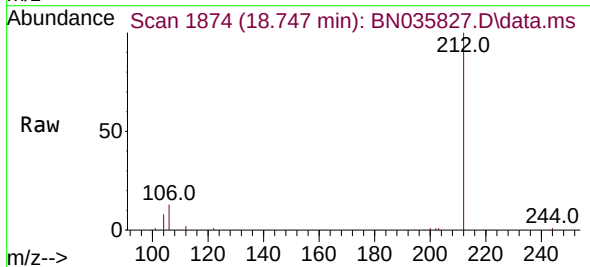
Concen: 0.397 ng

RT: 18.747 min Scan# 1874

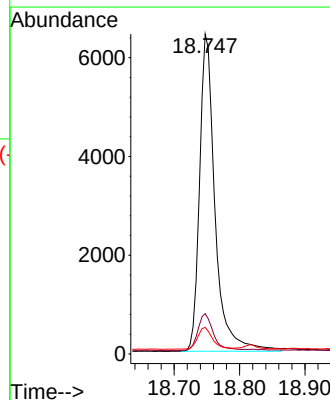
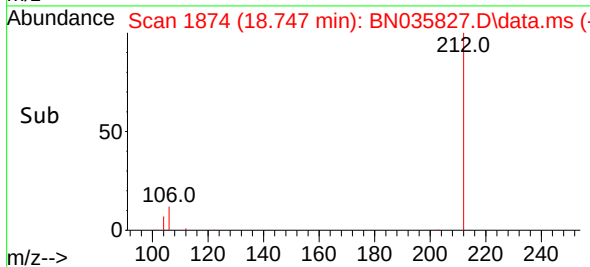
Delta R.T. -0.014 min

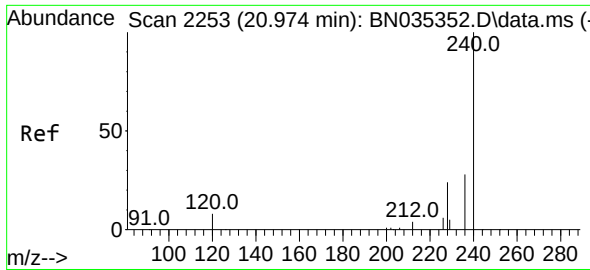
Lab File: BN035827.D

Acq: 24 Dec 2024 18:29



Tgt Ion:212	Resp:	10577
Ion Ratio	Lower	Upper
212	100	
106	11.7	9.2
104	6.7	5.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035827.D

Acq: 24 Dec 2024 18:29

Instrument :

BNA_N

ClientSampleId :

TT161S1-20241219

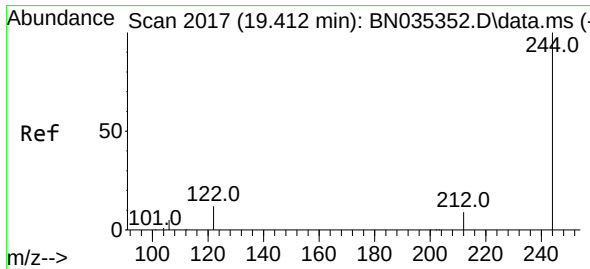
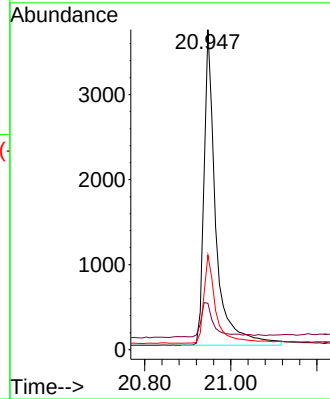
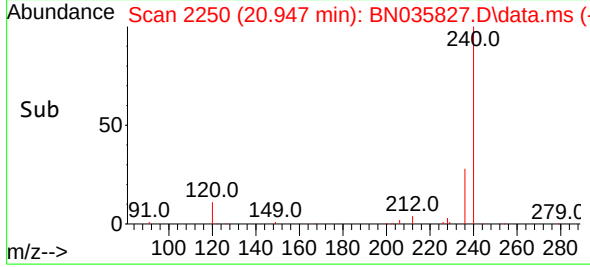
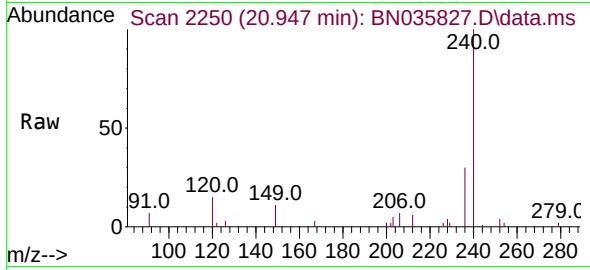
Tgt Ion:240	Resp:	709
Ion Ratio	Lower	Upper
240	100	
120	14.5	7.9 11.9
236	29.6	22.9 34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#31

Terphenyl-d14

Concen: 0.559 ng

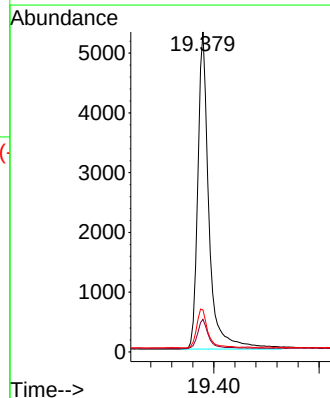
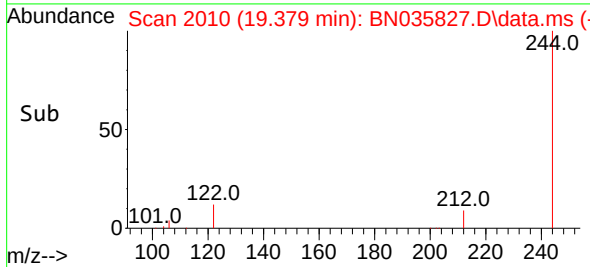
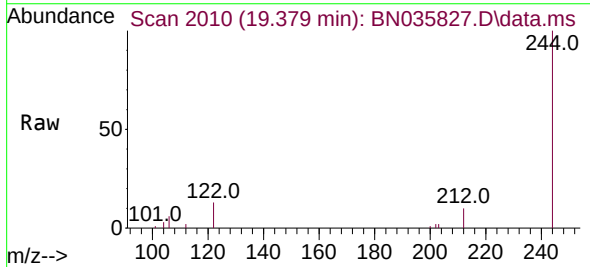
RT: 19.379 min Scan# 2010

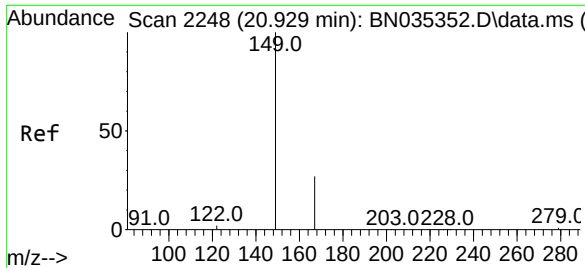
Delta R.T. -0.009 min

Lab File: BN035827.D

Acq: 24 Dec 2024 18:29

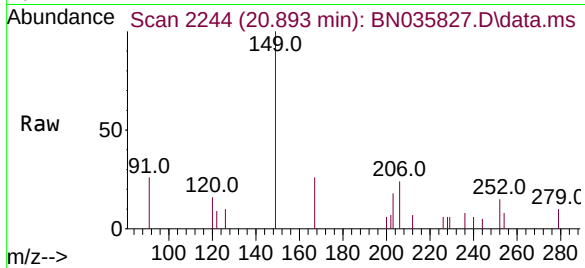
Tgt Ion:244	Resp:	7825
Ion Ratio	Lower	Upper
244	100	
212	10.2	8.1 12.1
122	13.1	10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

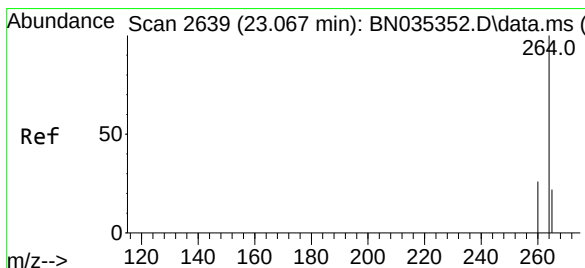
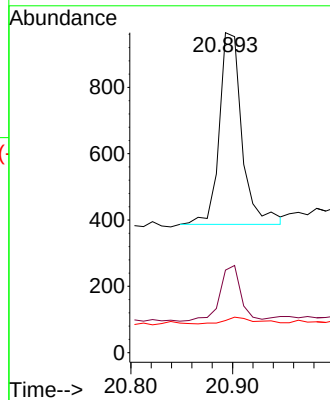
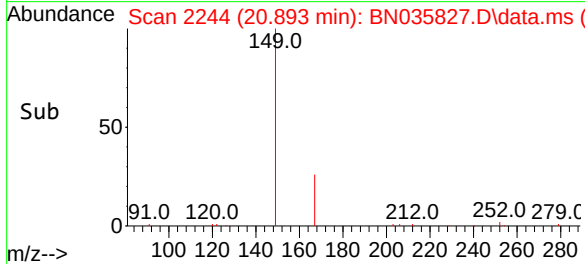
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219



Tgt Ion:149 Resp: 890
Ion Ratio Lower Upper
149 100
167 26.8 22.2 33.4
279 4.6 2.7 4.1

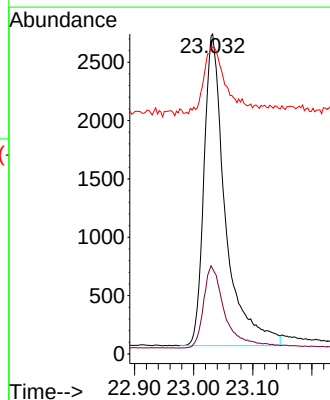
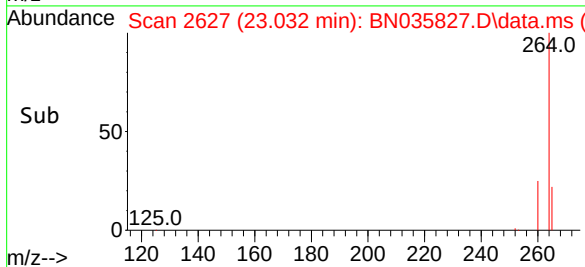
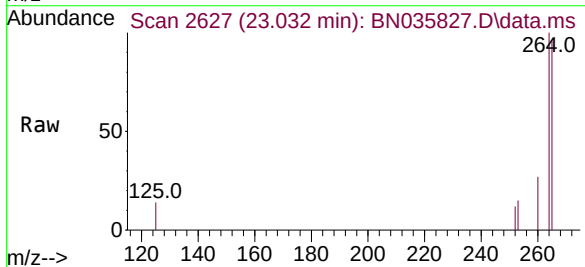
Manual Integrations
APPROVED

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: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:264 Resp: 6735
Ion Ratio Lower Upper
264 100
260 26.6 21.4 32.2
265 95.8 40.2 60.4



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	12/20/24
Client Sample ID:	TT162S1-20241219		SDG No.:	P5376
Lab Sample ID:	P5376-15		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
BN035847.D	1	12/23/24 13:29	12/26/24 11:20	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.34		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3700	7.257				
1146-65-2	Naphthalene-d8	8880	9.999				
15067-26-2	Acenaphthene-d10	5150	13.914				
1517-22-2	Phenanthrene-d10	10600	16.686				
1719-03-5	Chrysene-d12	8140	20.947				
1520-96-3	Perylene-d12	8010	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 : BN035847.D
 Acq On : 26 Dec 2024 11:20
 Operator : RC/JU
 Sample : P5376-15
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT162S1-20241219

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:32 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	3703	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8876	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5154	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10596	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8138	0.400	ng	0.00
35) Perylene-d12	23.026	264	8007	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.917	112	1078	0.116	ng	-0.02
5) Phenol-d6	6.470	99	611	0.055	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2468m	0.455	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	4895	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	808	0.221	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	7648	0.393	ng	-0.02
27) Fluoranthene-d10	18.747	212	11741	0.391	ng	-0.01
31) Terphenyl-d14	19.375	244	8616	0.537	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1214	0.343	ng	98
30) Pyrene	19.147	202	618	0.021	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	1284	0.114	ng	# 96

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

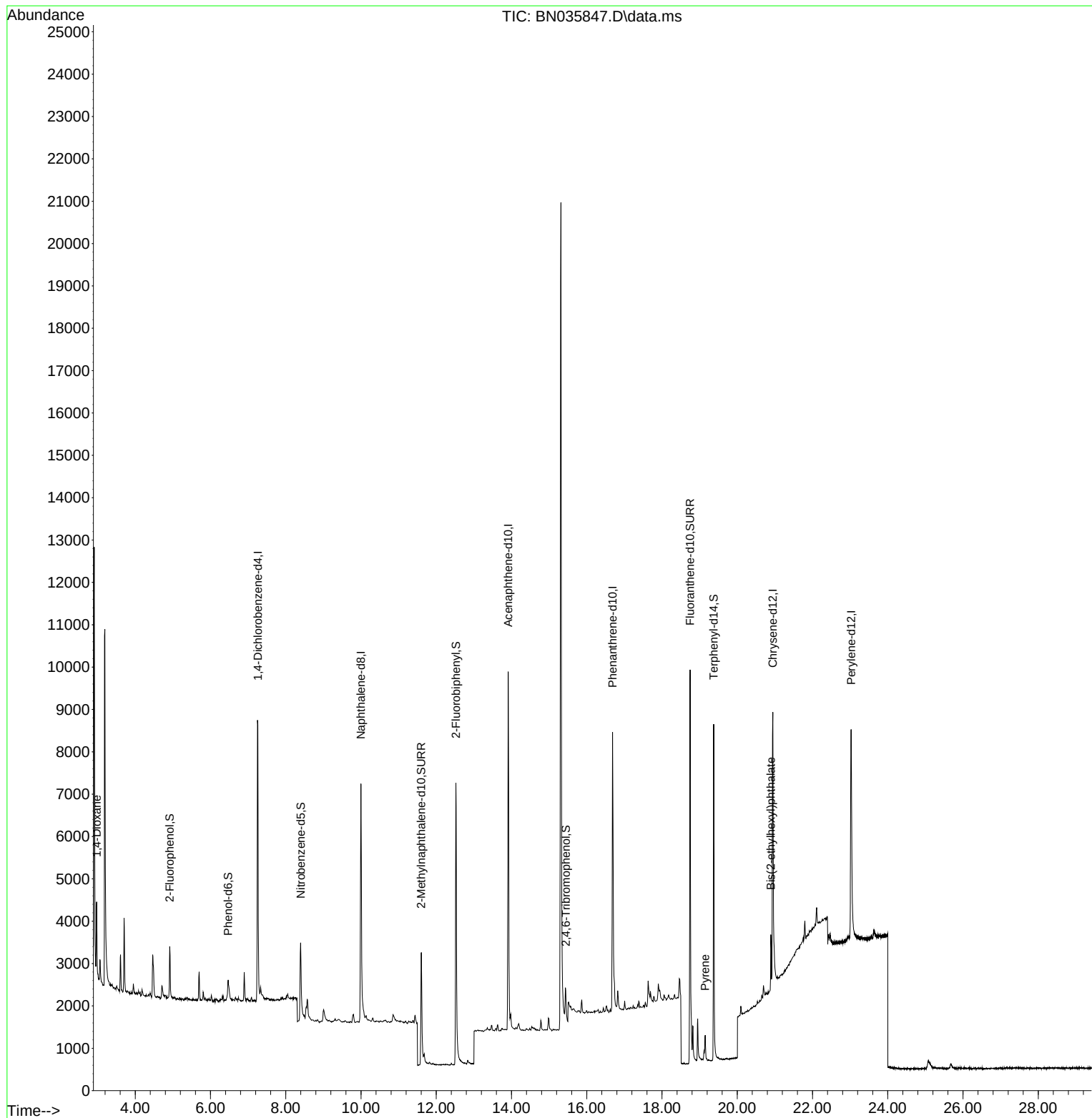
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

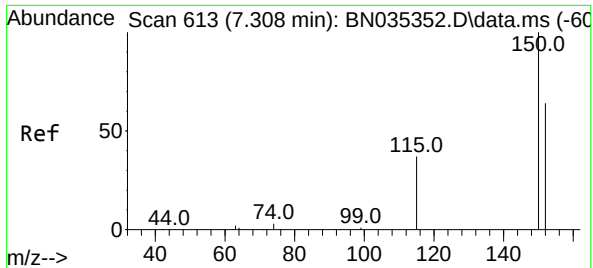
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

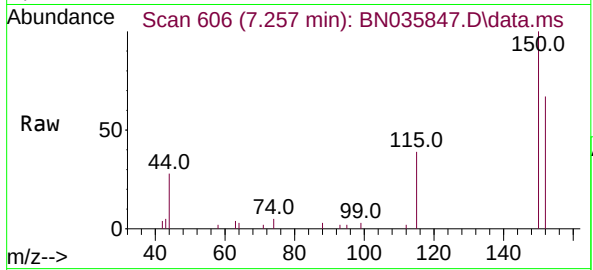
Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

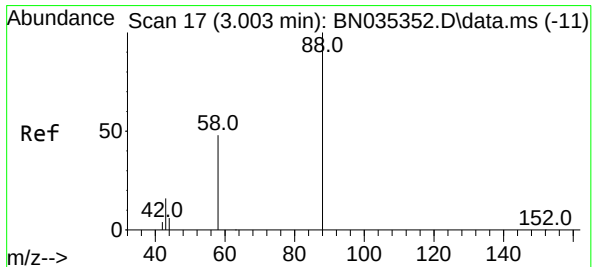
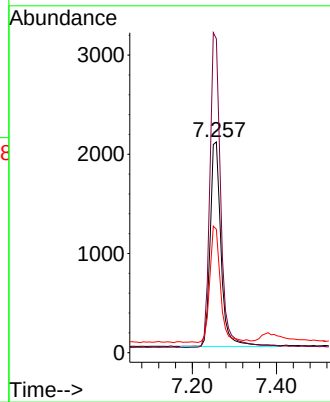
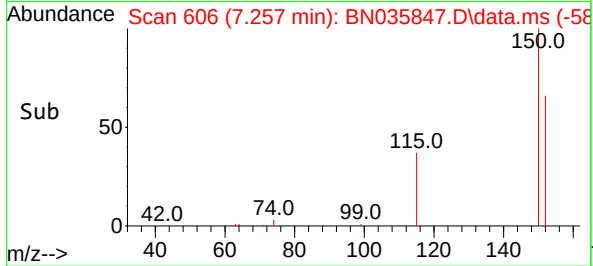
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219



Tgt Ion:152 Resp: 370
Ion Ratio Lower Upper
152 100
150 148.9 124.0 186.0
115 58.5 49.6 74.4

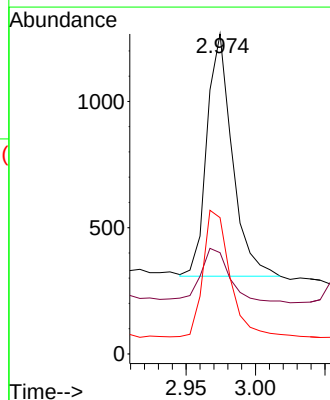
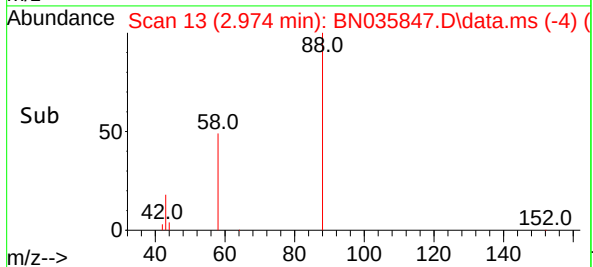
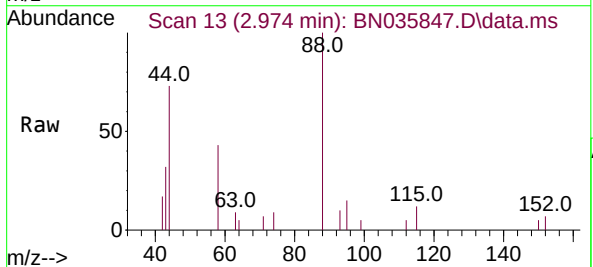
Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

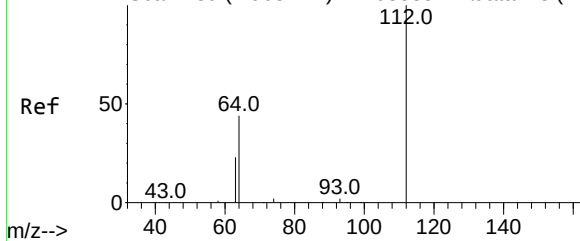


#2
1,4-Dioxane
Concen: 0.343 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 88 Resp: 1214
Ion Ratio Lower Upper
88 100
43 24.0 17.2 25.8
58 55.2 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.116 ng

RT: 4.917 min Scan# 21

Delta R.T. -0.022 min

Lab File: BN035847.D

Acq: 26 Dec 2024 11:20

Instrument :

BNA_N

ClientSampleId :

TT162S1-20241219

Tgt Ion:112 Resp: 1078

Ion Ratio Lower Upper

112 100

64 52.5 39.8 59.8

63 29.4 21.0 31.6

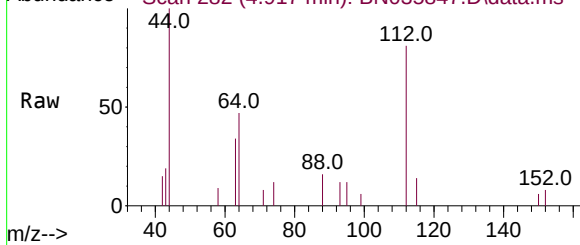
Manual Integrations

APPROVED

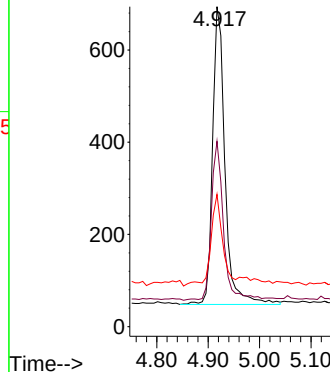
Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024

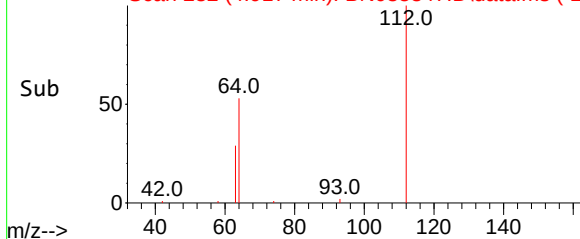
Abundance Scan 282 (4.917 min): BN035847.D\data.ms



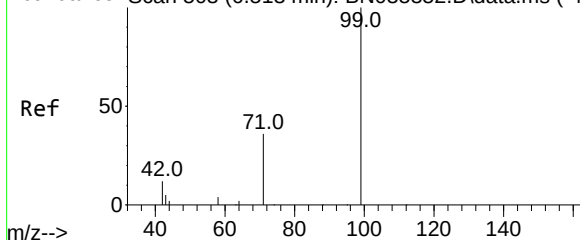
Abundance



Abundance Scan 282 (4.917 min): BN035847.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.055 ng

RT: 6.470 min Scan# 497

Delta R.T. -0.022 min

Lab File: BN035847.D

Acq: 26 Dec 2024 11:20

Tgt Ion: 99 Resp: 611

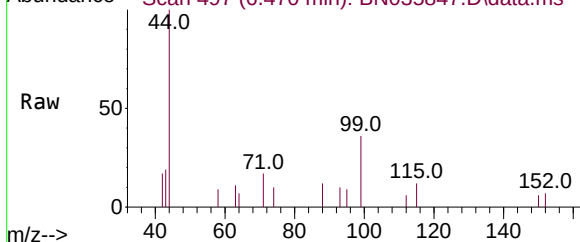
Ion Ratio Lower Upper

99 100

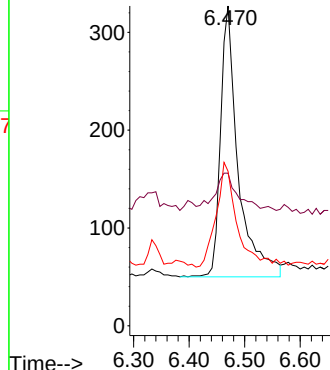
42 20.9 11.4 17.2#

71 46.6 29.3 43.9#

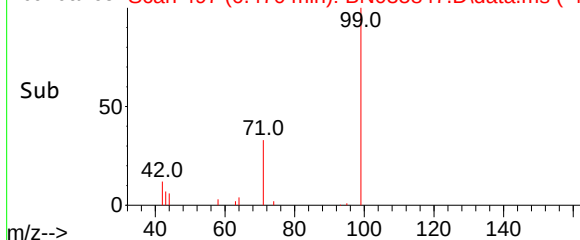
Abundance Scan 497 (6.470 min): BN035847.D\data.ms

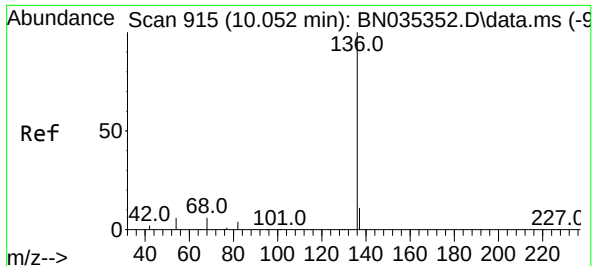


Abundance



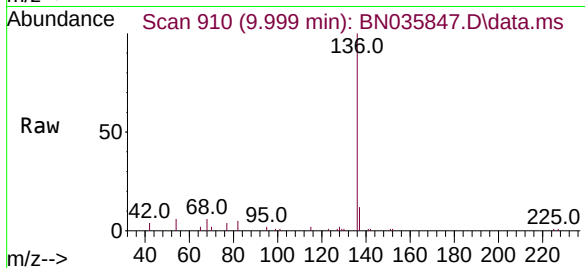
Abundance Scan 497 (6.470 min): BN035847.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

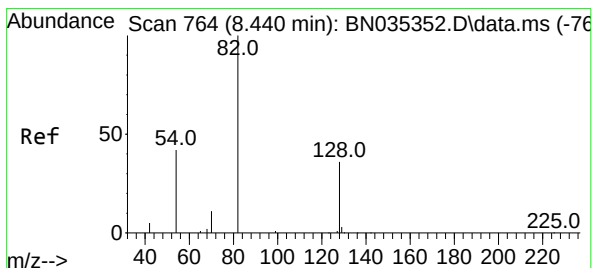
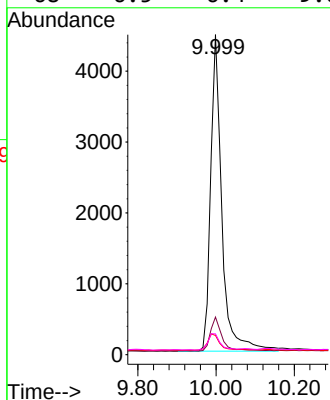
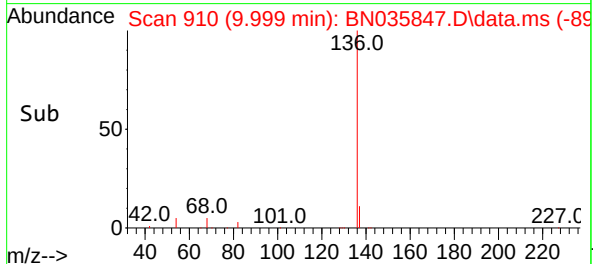
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219



Tgt Ion:136 Resp: 8870
Ion Ratio Lower Upper
136 100
137 11.7 10.2 15.2
54 6.0 6.1 9.1
68 6.5 6.4 9.6

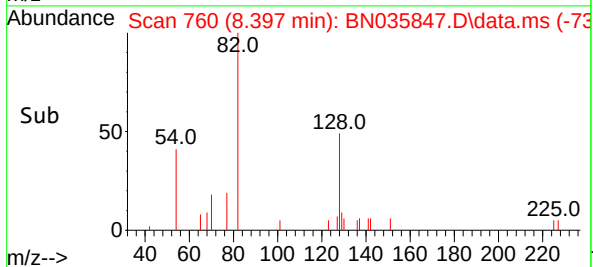
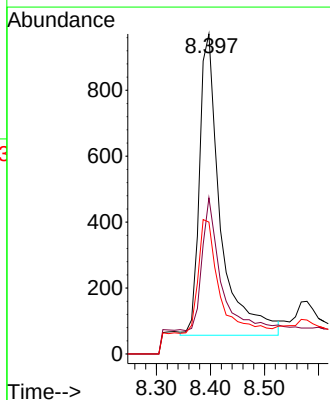
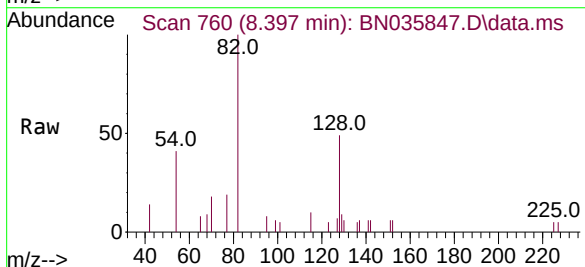
Manual Integrations
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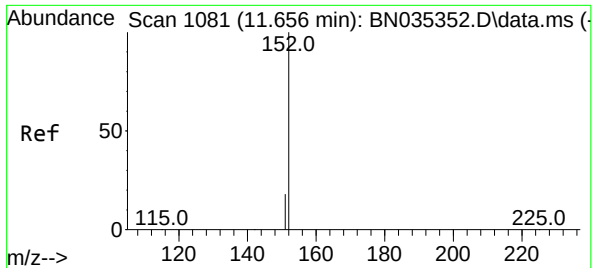
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.455 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

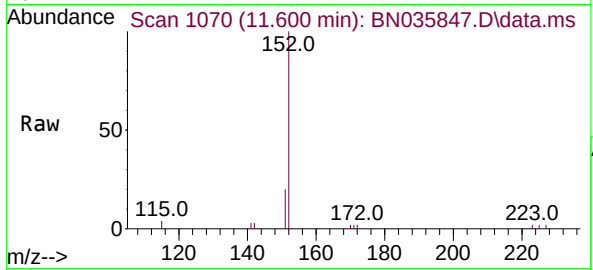
Tgt Ion: 82 Resp: 2468
Ion Ratio Lower Upper
82 100
128 48.8 33.4 50.0
54 41.2 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.600 min Scan# 1081
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

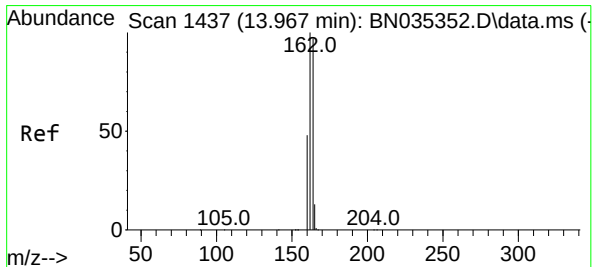
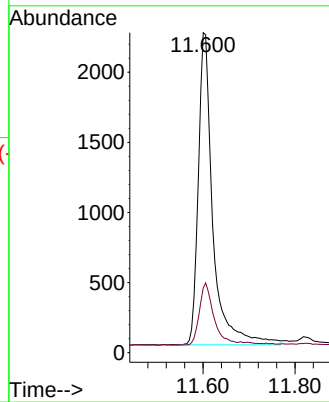
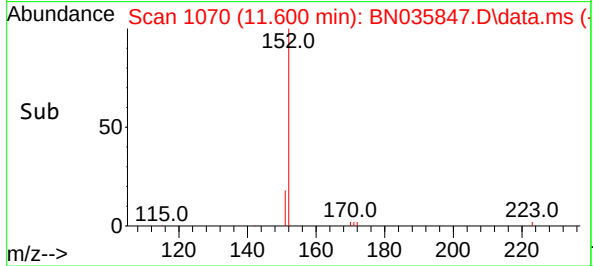
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219



Tgt Ion:152 Resp: 489
Ion Ratio Lower Upper
152 100
151 19.7 16.6 25.0

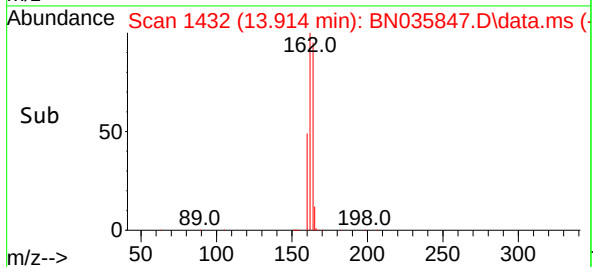
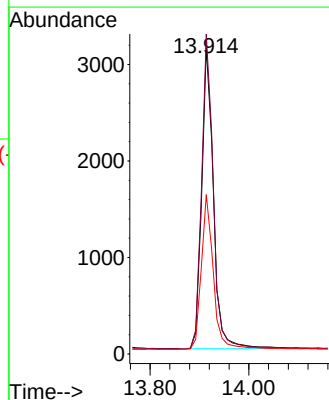
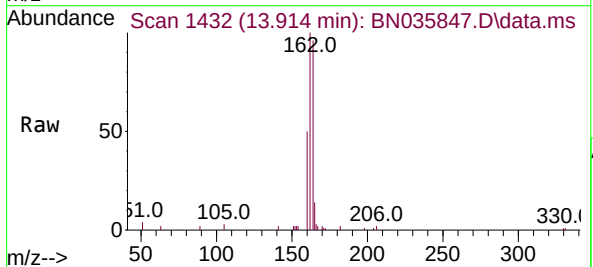
Manual Integrations
APPROVED

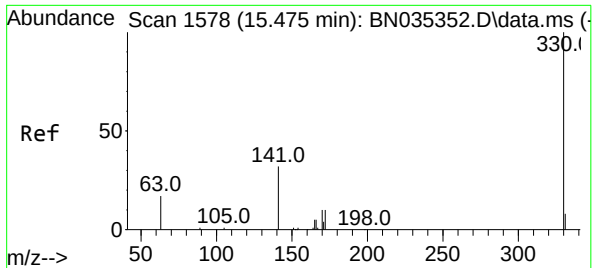
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

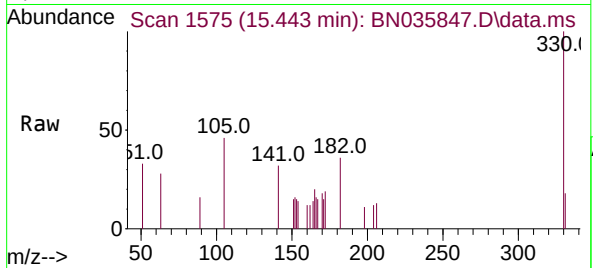
Tgt Ion:164 Resp: 5154
Ion Ratio Lower Upper
164 100
162 104.4 82.2 123.2
160 52.0 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

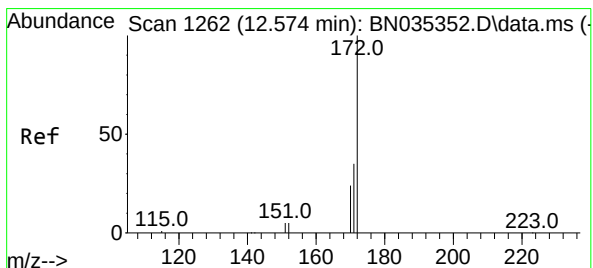
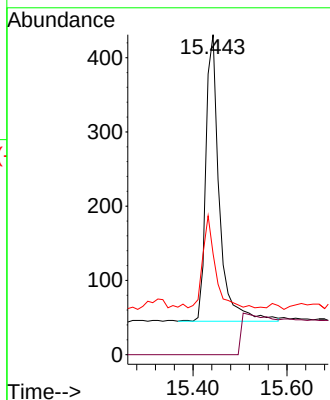
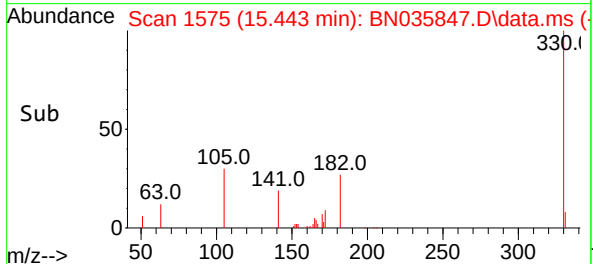
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219



Tgt Ion:330 Resp: 808
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 28.6 26.6 40.0

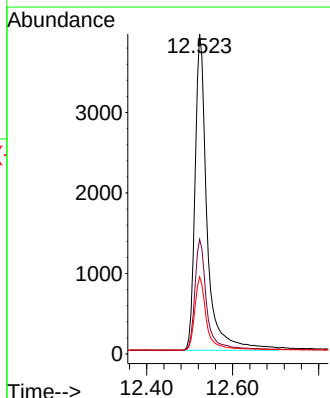
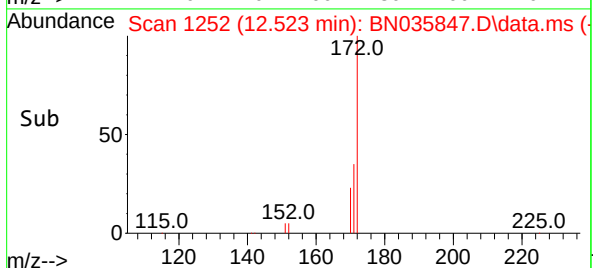
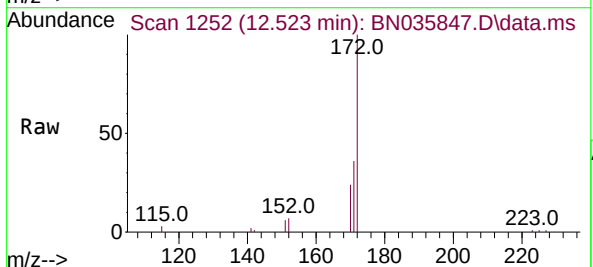
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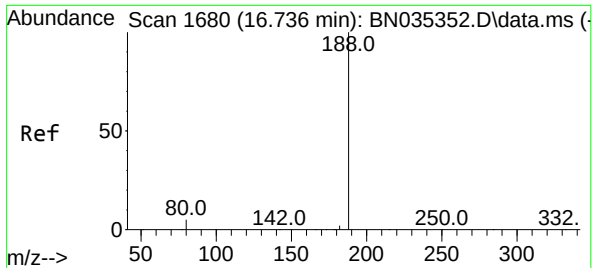
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.523 min Scan# 1252
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:172 Resp: 7648
Ion Ratio Lower Upper
172 100
171 35.8 29.0 43.4
170 24.1 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035847.D

Acq: 26 Dec 2024 11:20

Instrument :

BNA_N

ClientSampleId :

TT162S1-20241219

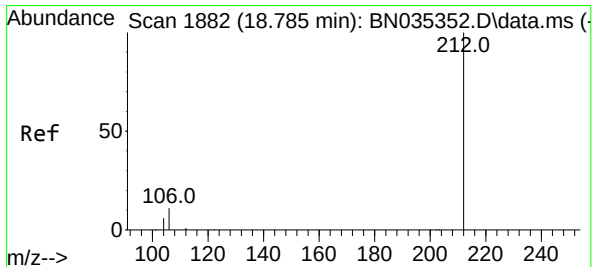
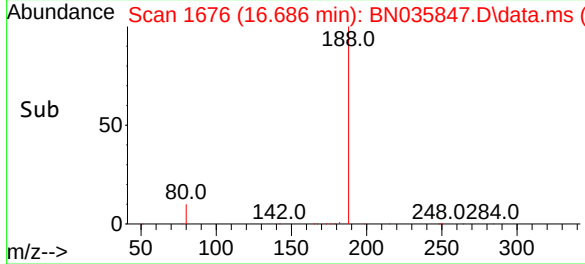
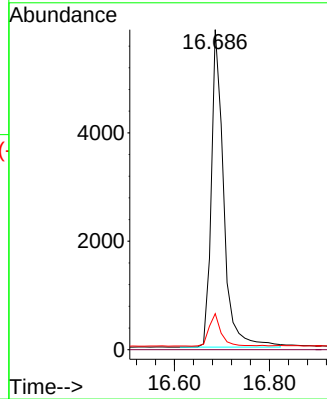
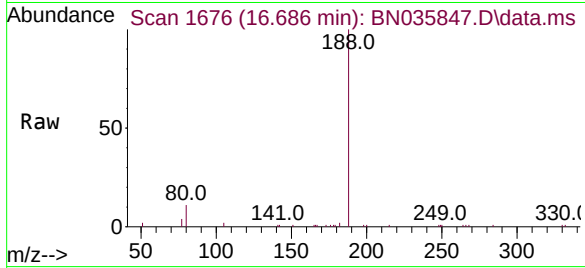
Tgt Ion:188	Resp:	10590
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	11.2	4.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#27

Fluoranthene-d10

Concen: 0.391 ng

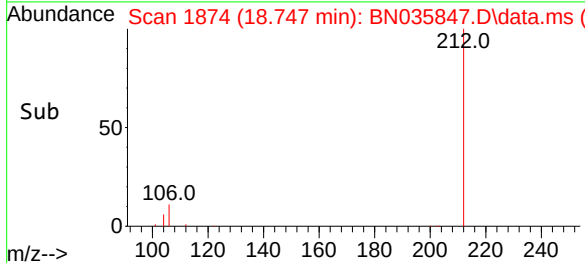
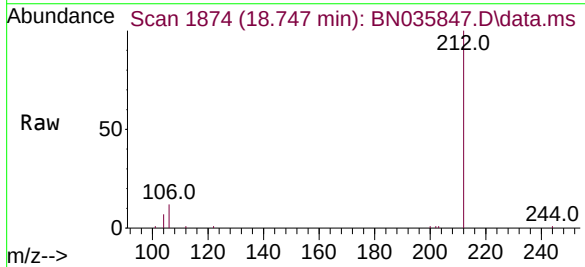
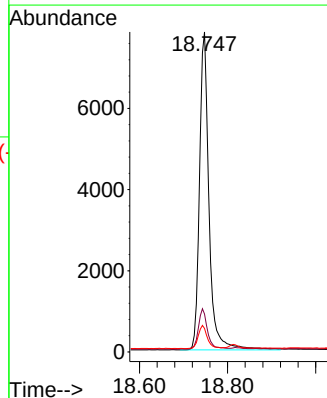
RT: 18.747 min Scan# 1874

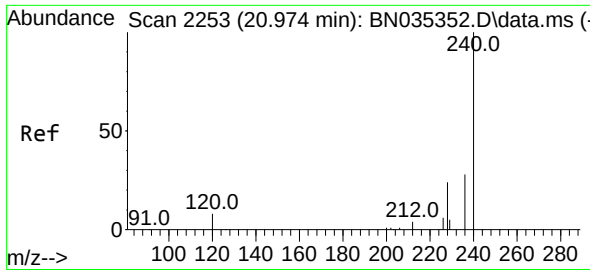
Delta R.T. -0.014 min

Lab File: BN035847.D

Acq: 26 Dec 2024 11:20

Tgt Ion:212	Resp:	11741
Ion Ratio	Lower	Upper
212	100	
106	11.9	9.2
104	6.9	5.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035847.D

Acq: 26 Dec 2024 11:20

Instrument :

BNA_N

ClientSampleId :

TT162S1-20241219

Tgt Ion:240 Resp: 813

Ion Ratio Lower Upper

240 100

120 11.3 7.9 11.9

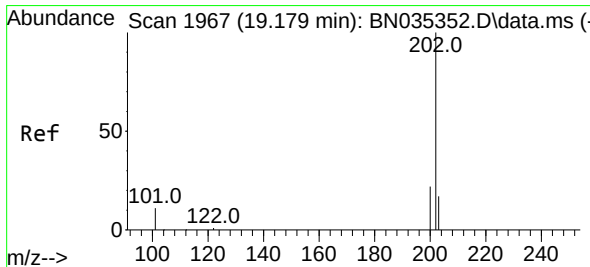
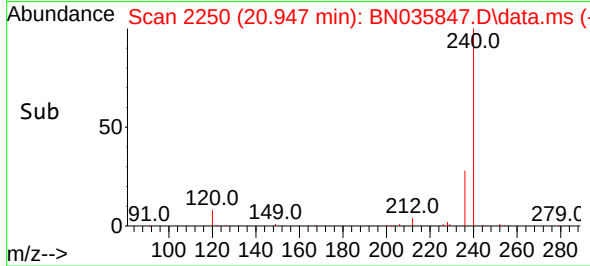
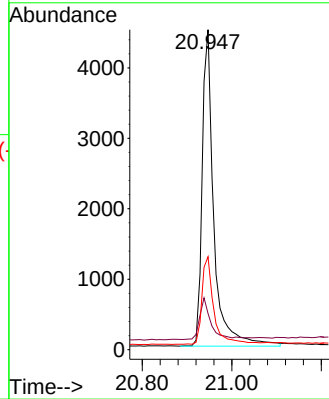
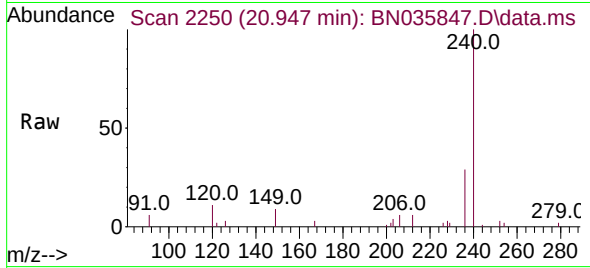
236 29.1 22.9 34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#30

Pyrene

Concen: 0.021 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035847.D

Acq: 26 Dec 2024 11:20

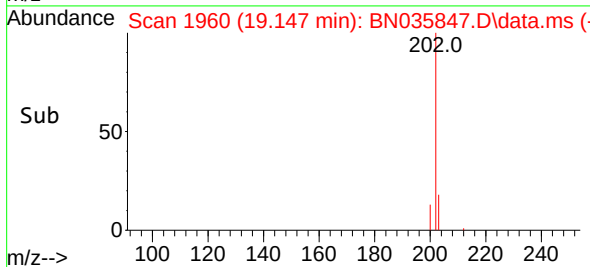
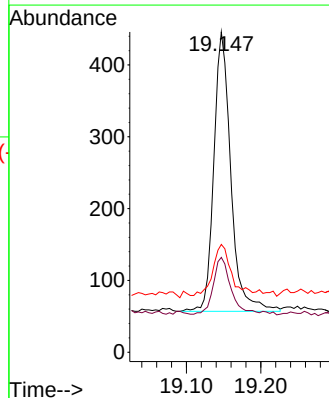
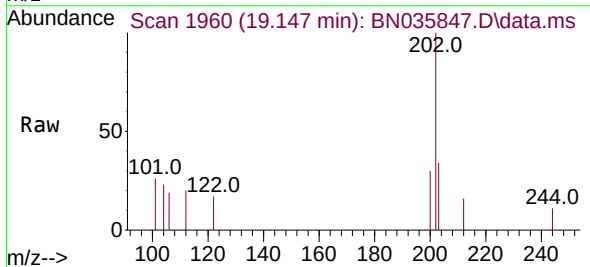
Tgt Ion:202 Resp: 618

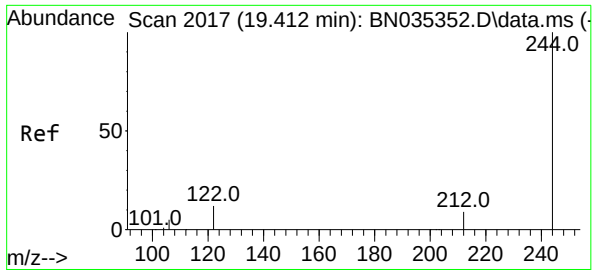
Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.4

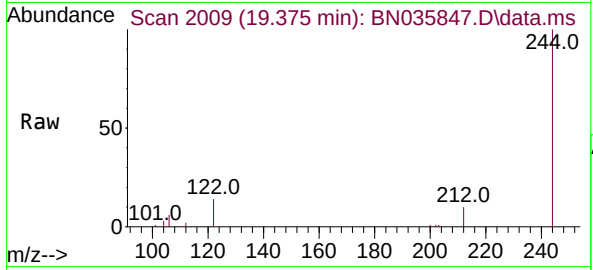
203 20.2 14.3 21.5





#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

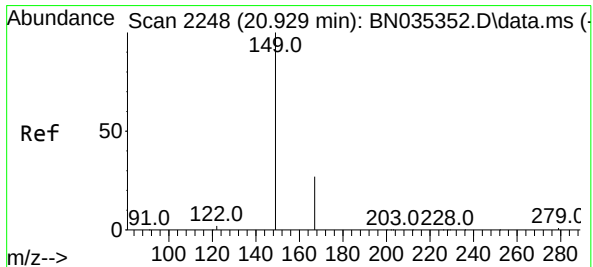
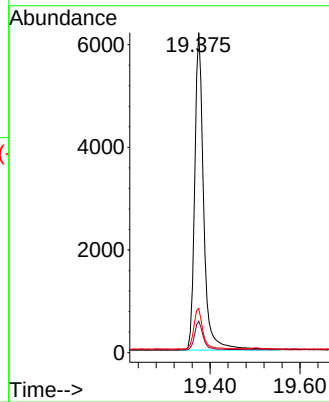
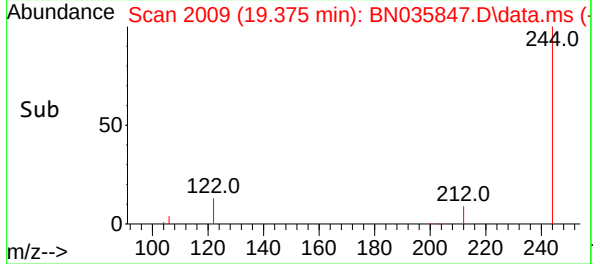
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219



Tgt Ion:244 Resp: 8610
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 13.8 10.3 15.5

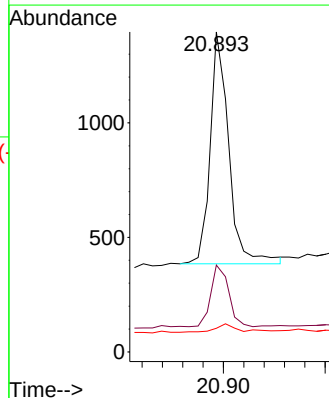
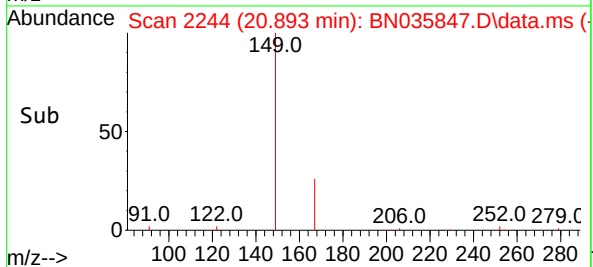
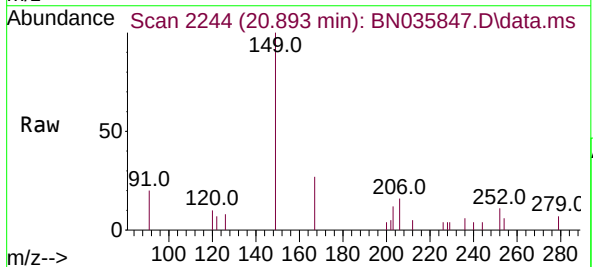
Manual Integrations
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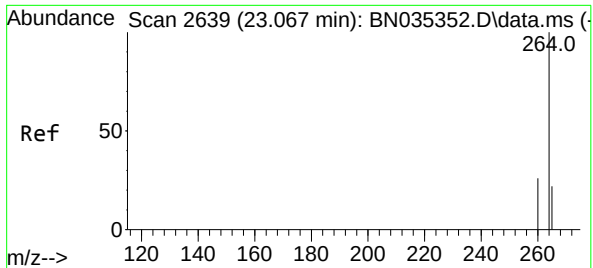
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:149 Resp: 1284
Ion Ratio Lower Upper
149 100
167 25.5 22.2 33.4
279 4.3 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: BN035847.D

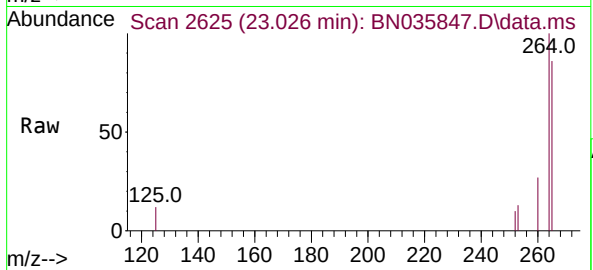
Acq: 26 Dec 2024 11:20

Instrument :

BNA_N

ClientSampleId :

TT162S1-20241219



Tgt Ion:264 Resp: 800

Ion Ratio Lower Upper

264 100

260 27.2 21.4 32.2

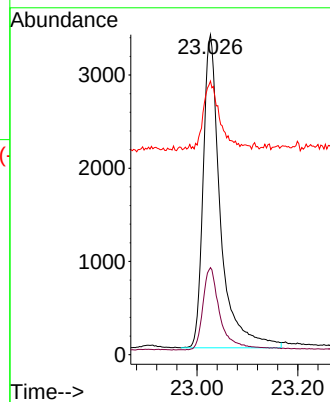
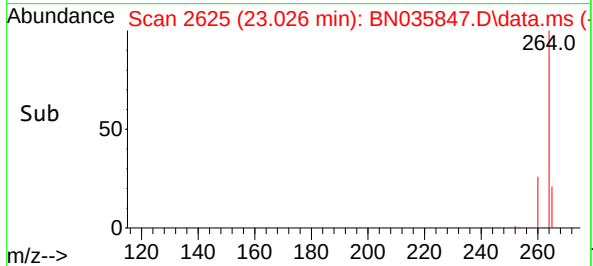
265 85.5 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW11-MW01S-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-16	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
BN035833.D	1	12/23/24 13:29	12/24/24 23:18	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.16	J	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	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3280	7.257				
1146-65-2	Naphthalene-d8	7720	10.009				
15067-26-2	Acenaphthene-d10	4820	13.914				
1517-22-2	Phenanthrene-d10	10000	16.698				
1719-03-5	Chrysene-d12	8070	20.947				
1520-96-3	Perylene-d12	7780	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\BN122324\
 Data File : BN035833.D
 Acq On : 24 Dec 2024 23:18
 Operator : RC/JU
 Sample : P5376-16
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01S-20241219

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

Quant Time: Dec 25 02:35:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : 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	3277	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7724	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	4815	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10024	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8069	0.400	ng	0.00
35) Perylene-d12	23.026	264	7784	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	965	0.118	ng	-0.01
5) Phenol-d6	6.477	99	504	0.051	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1978m	0.419	ng	0.00
11) 2-Methylnaphthalene-d10	11.605	152	4512	0.373	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	723	0.212	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7112	0.391	ng	-0.02
27) Fluoranthene-d10	18.747	212	11675	0.411	ng	-0.01
31) Terphenyl-d14	19.375	244	8422	0.529	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	506	0.162	ng	# 77
25) Phenanthrene	16.736	178	582	0.021	ng	# 92
34) Bis(2-ethylhexyl)phtha...	20.893	149	981	0.088	ng	# 98

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

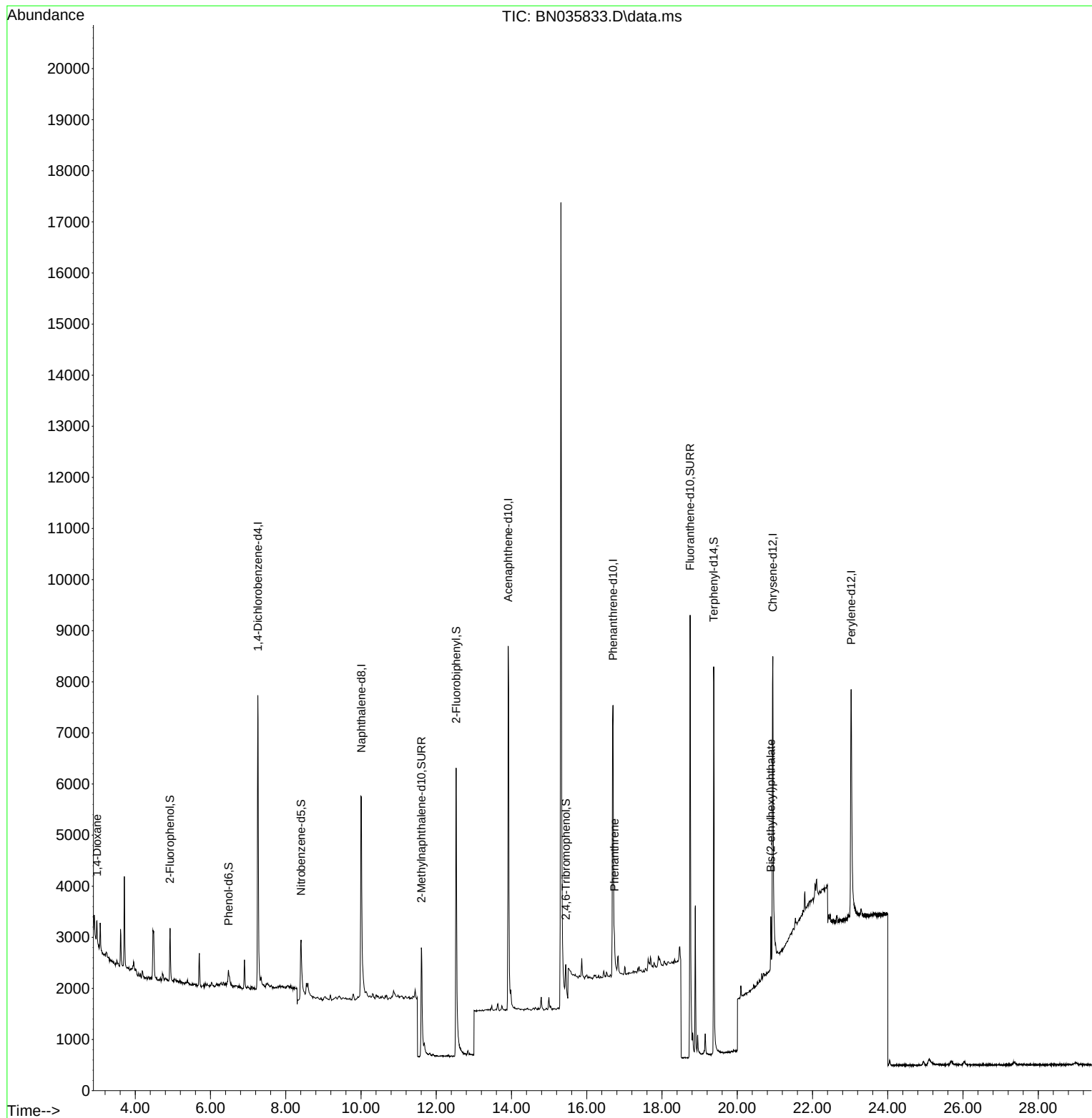
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

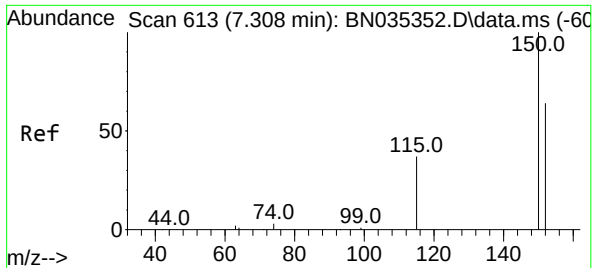
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
APPROVED

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

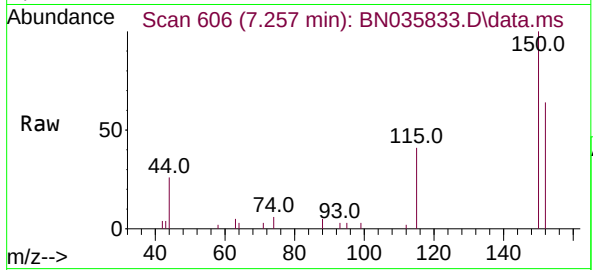
Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 606
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

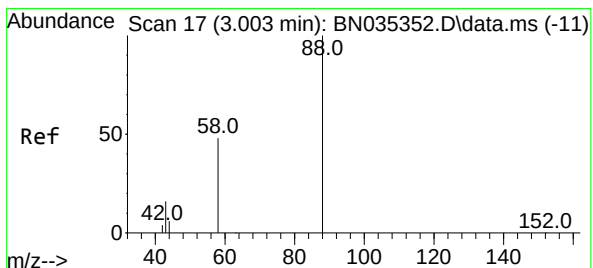
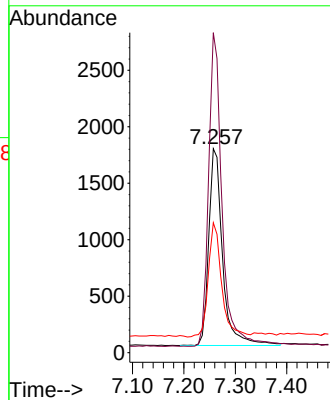
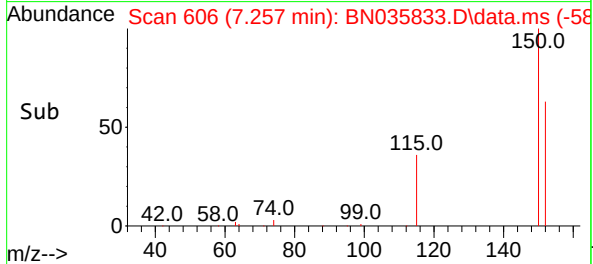
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219



Tgt Ion:152 Resp: 327
Ion Ratio Lower Upper
152 100
150 156.9 124.0 186.0
115 63.7 49.6 74.4

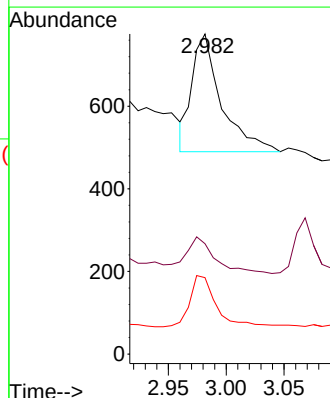
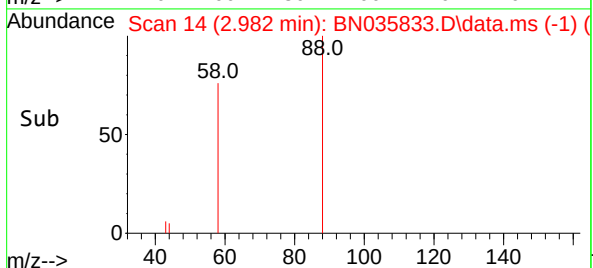
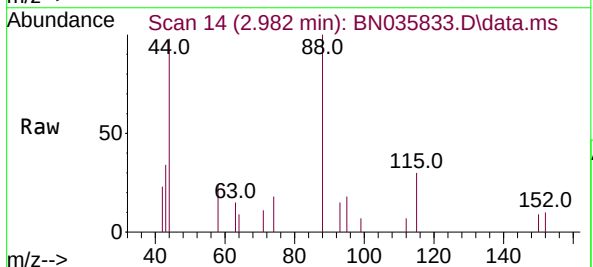
Manual Integrations
APPROVED

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

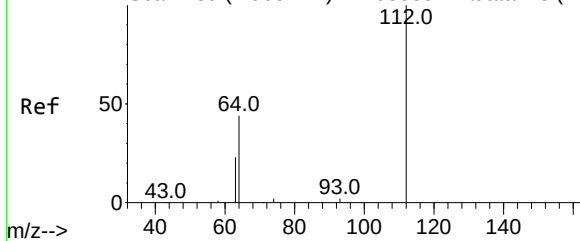


#2
1,4-Dioxane
Concen: 0.162 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 88 Resp: 506
Ion Ratio Lower Upper
88 100
43 32.0 17.2 25.8#
58 38.5 44.5 66.7#



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.118 ng

RT: 4.924 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035833.D

Acq: 24 Dec 2024 23:18

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20241219

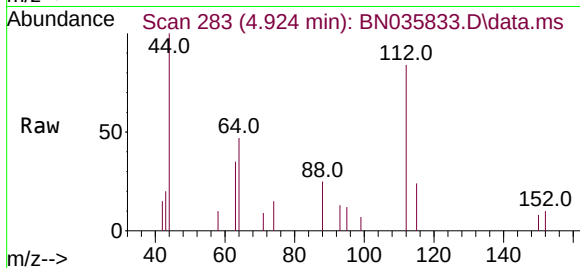
Tgt Ion:	112	Resp:	96
Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	28.6	21.0	31.6

Manual Integrations

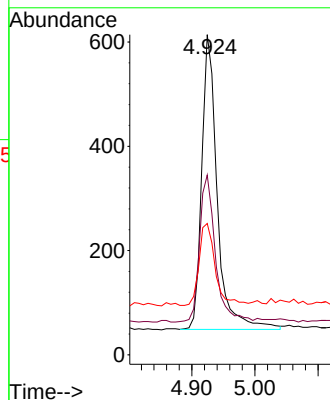
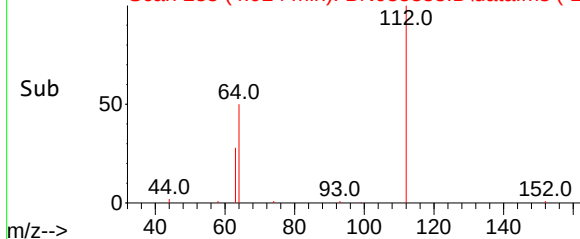
APPROVED

Reviewed By :Yogesh Patel 12/26/2024

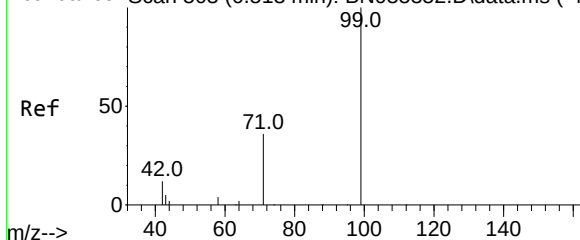
Supervised By :mohammad ahmed 12/26/2024



Abundance Scan 283 (4.924 min): BN035833.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.051 ng

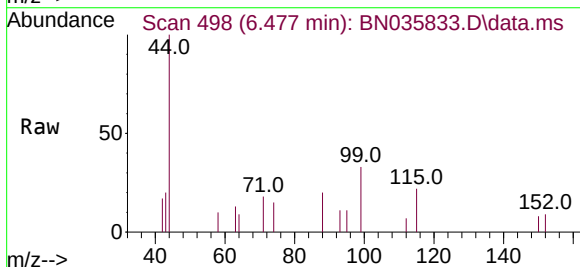
RT: 6.477 min Scan# 498

Delta R.T. -0.015 min

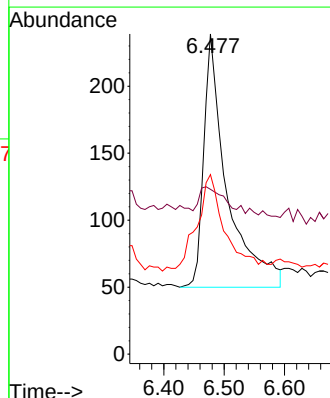
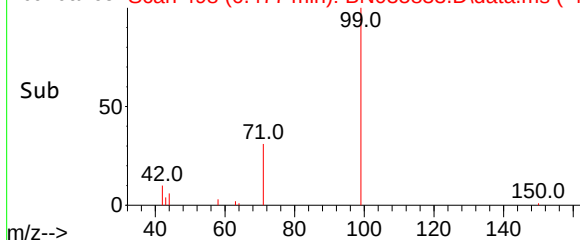
Lab File: BN035833.D

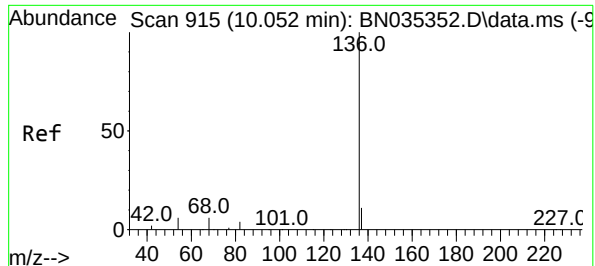
Acq: 24 Dec 2024 23:18

Tgt Ion:	99	Resp:	504
Ion	Ratio	Lower	Upper
99	100		
42	12.7	11.4	17.2
71	47.0	29.3	43.9



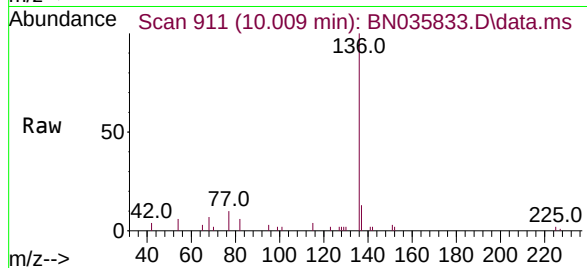
Abundance Scan 498 (6.477 min): BN035833.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

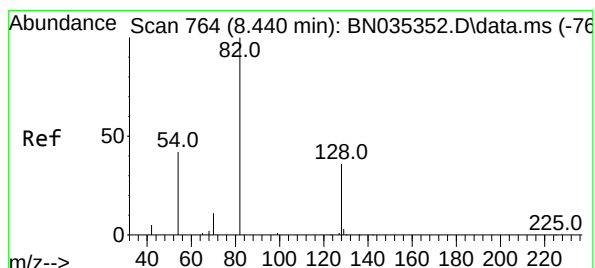
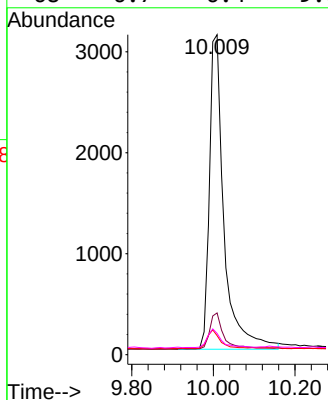
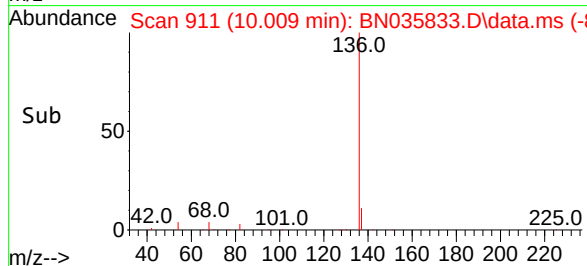
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219



Tgt Ion: 136 Resp: 7724
Ion Ratio Lower Upper
136 100
137 13.0 10.2 15.2
54 6.0 6.1 9.1
68 6.7 6.4 9.6

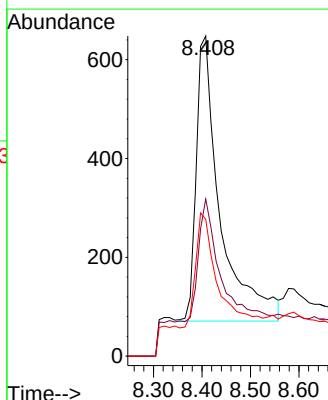
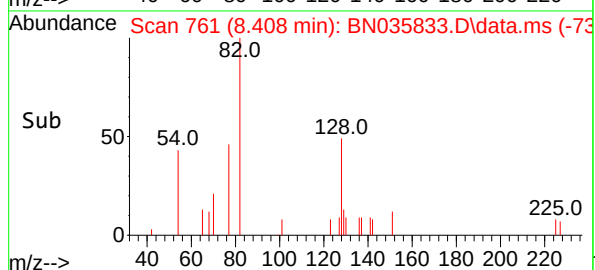
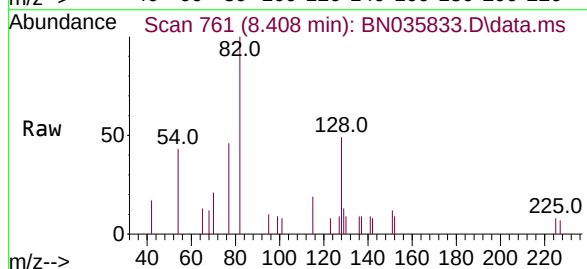
Manual Integrations
APPROVED

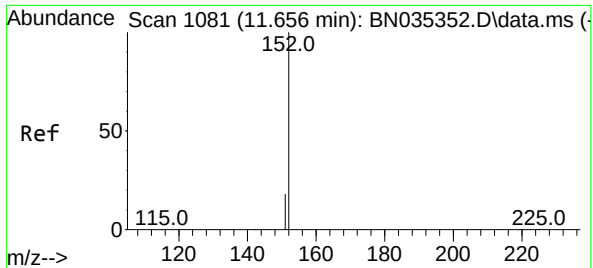
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.419 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

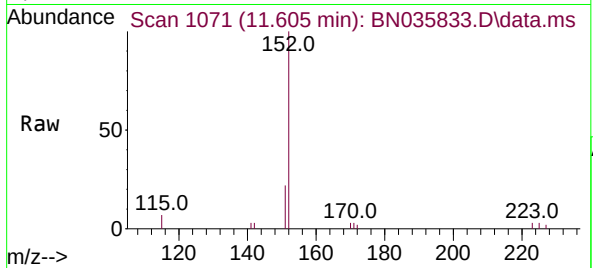
Tgt Ion: 82 Resp: 1978
Ion Ratio Lower Upper
82 100
128 49.1 33.4 50.0
54 42.7 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.605 min Scan# 1081
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

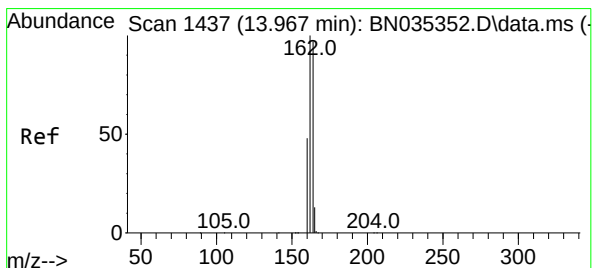
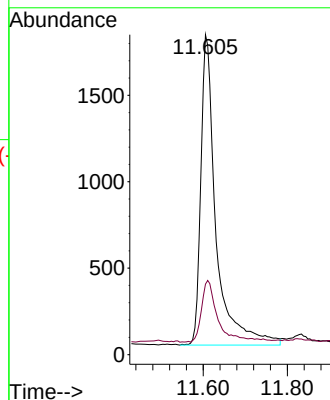
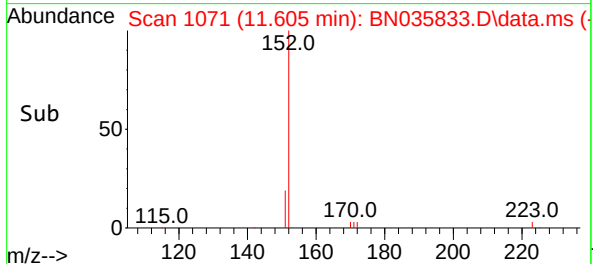
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219



Tgt Ion:152 Resp: 4512
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0

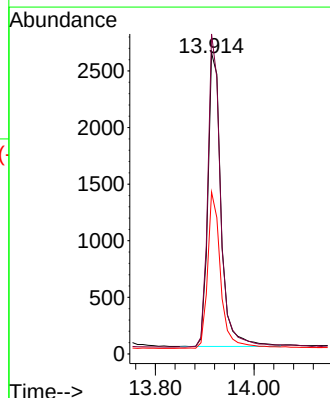
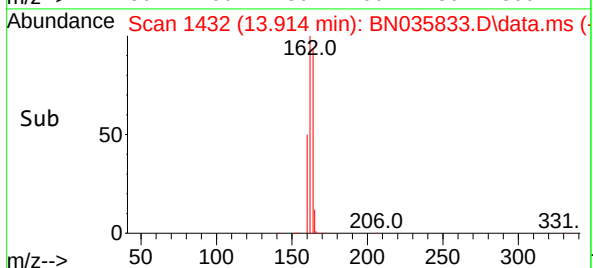
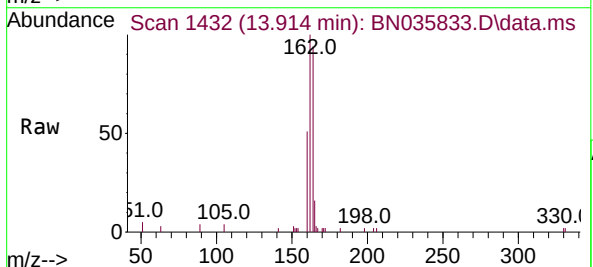
Manual Integrations
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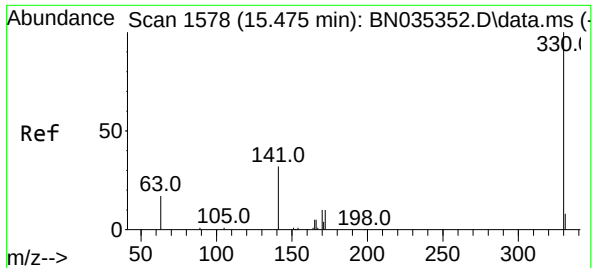
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

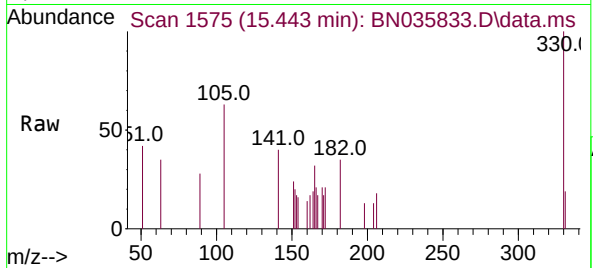
Tgt Ion:164 Resp: 4815
Ion Ratio Lower Upper
164 100
162 106.3 82.2 123.2
160 53.8 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

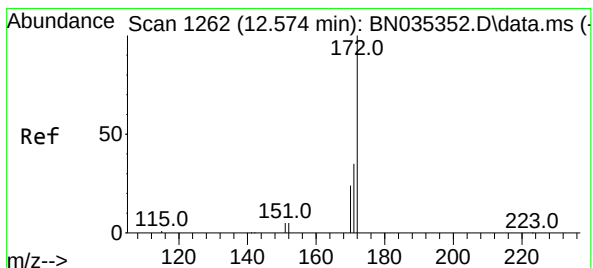
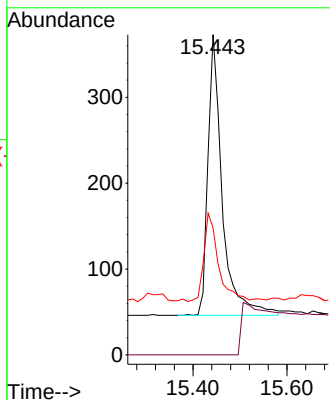
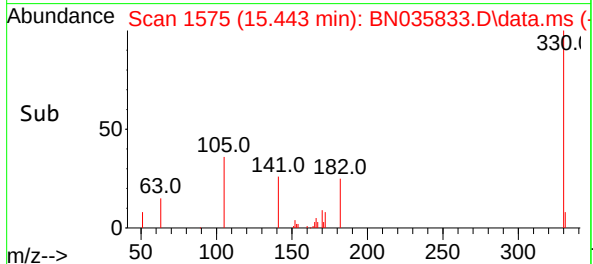
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219



Tgt Ion:330 Resp: 72
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.5 26.6 40.0

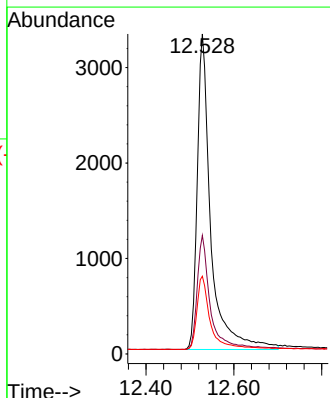
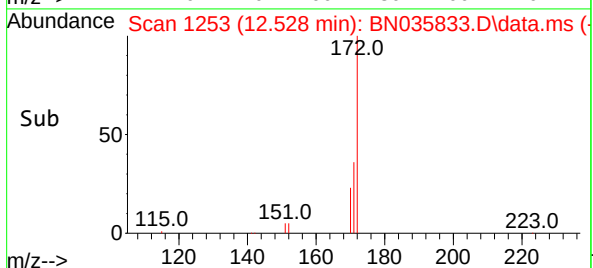
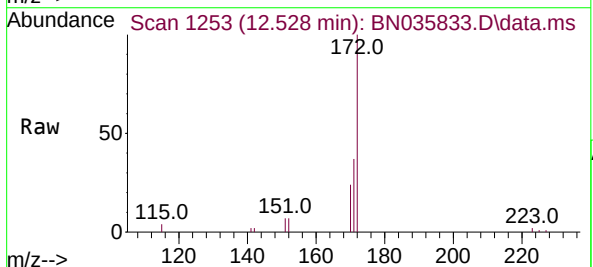
Manual Integrations
APPROVED

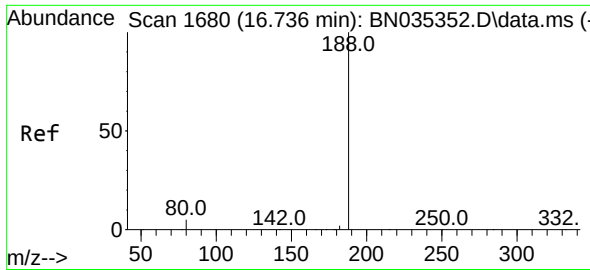
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:172 Resp: 7112
Ion Ratio Lower Upper
172 100
171 37.1 29.0 43.4
170 24.3 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: BN035833.D

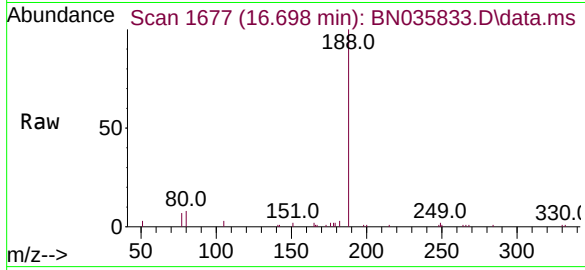
Acq: 24 Dec 2024 23:18

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20241219



Tgt Ion:188 Resp: 10024

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

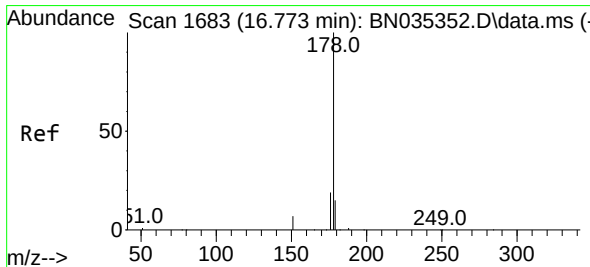
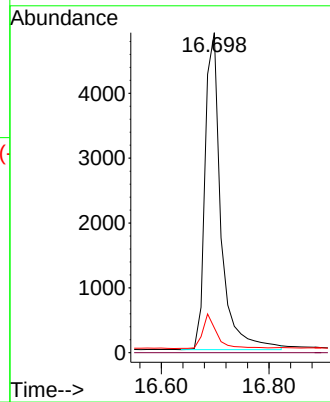
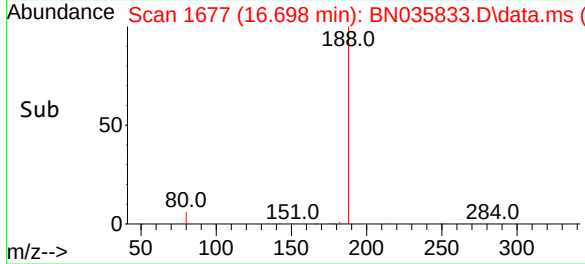
80 7.8 4.6 6.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



#25

Phenanthrene

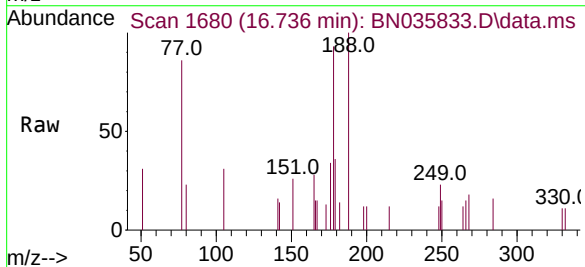
Concen: 0.021 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035833.D

Acq: 24 Dec 2024 23:18



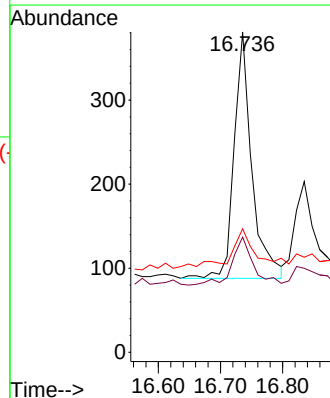
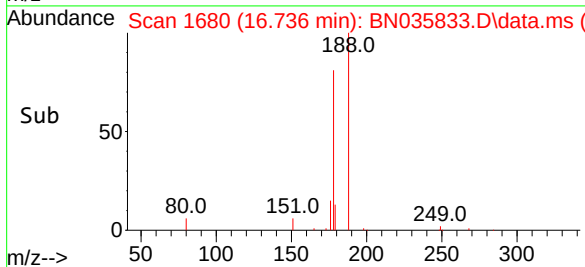
Tgt Ion:178 Resp: 582

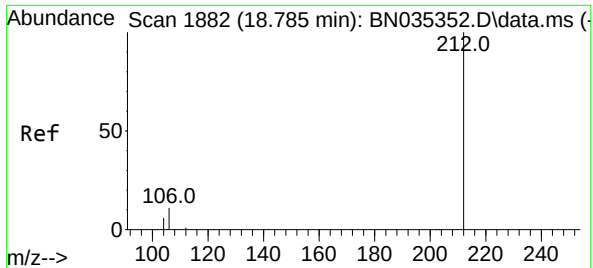
Ion Ratio Lower Upper

178 100

176 23.0 15.4 23.2

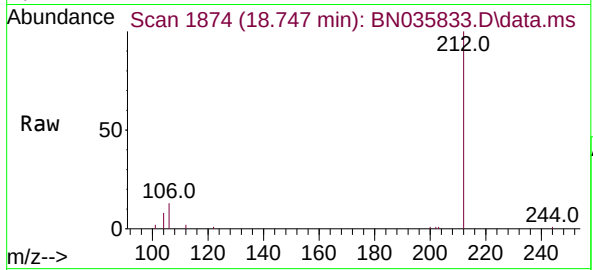
179 18.7 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1167
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

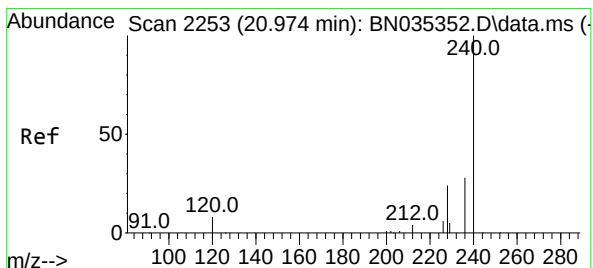
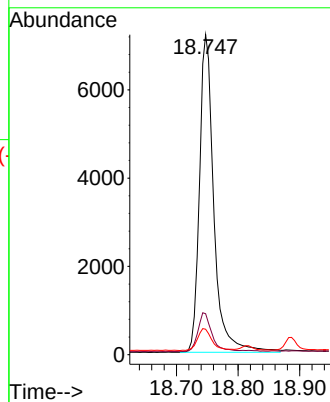
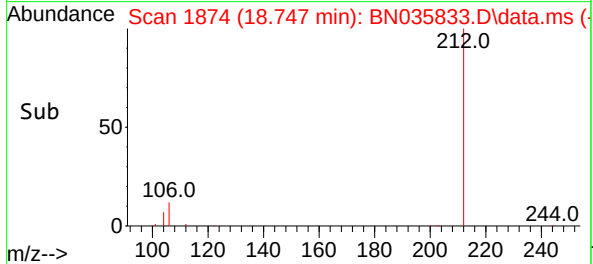
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219



Tgt Ion:212 Resp: 1167
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 7.0 5.3 7.9

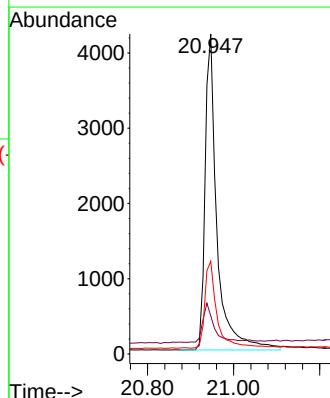
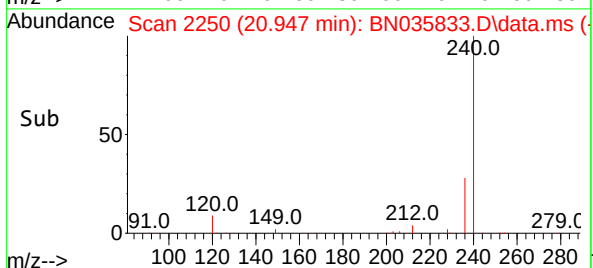
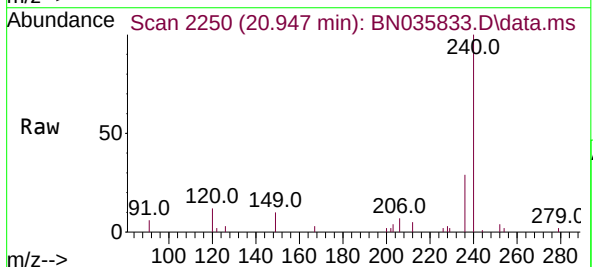
Manual Integrations
APPROVED

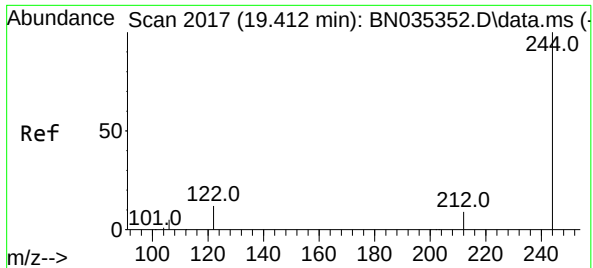
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

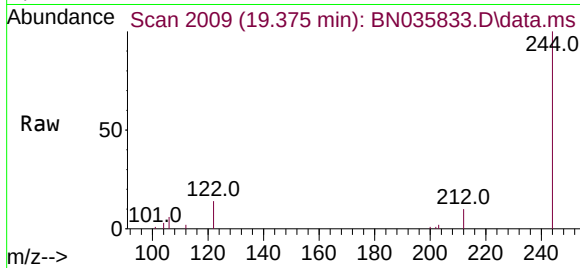
Tgt Ion:240 Resp: 8069
Ion Ratio Lower Upper
240 100
120 11.9 7.9 11.9
236 29.0 22.9 34.3





#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

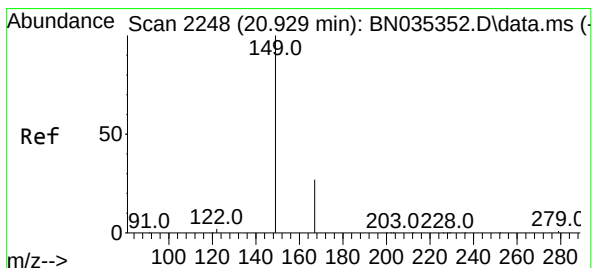
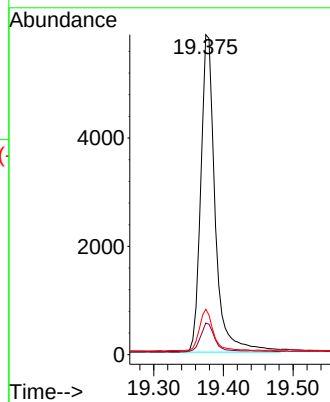
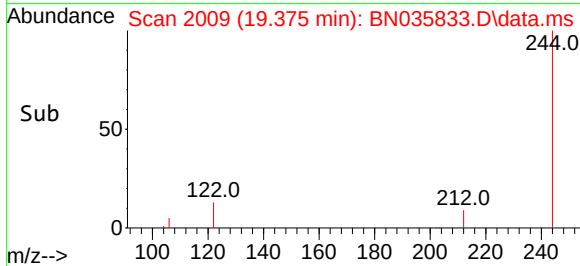
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219



Tgt Ion:244 Resp: 842
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 14.2 10.3 15.5

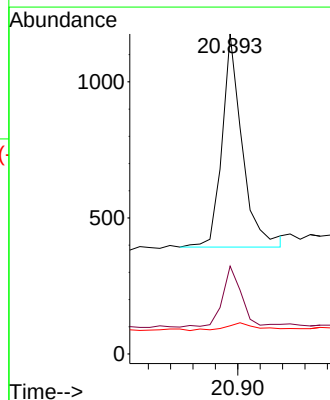
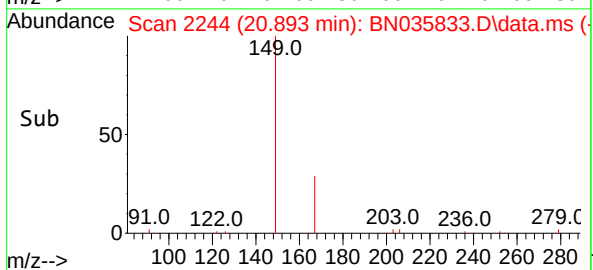
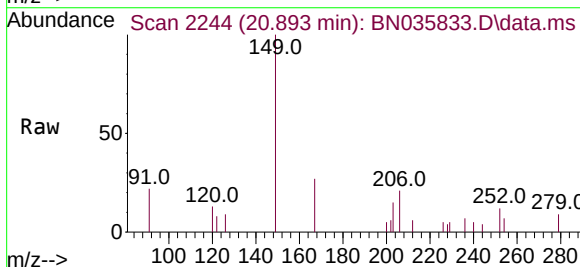
Manual Integrations
APPROVED

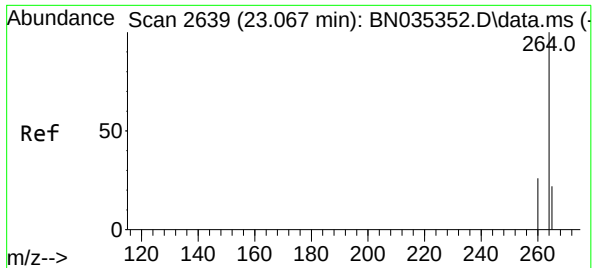
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:149 Resp: 981
Ion Ratio Lower Upper
149 100
167 27.2 22.2 33.4
279 6.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.026 min Scan# 20

Delta R.T. -0.015 min

Lab File: BN035833.D

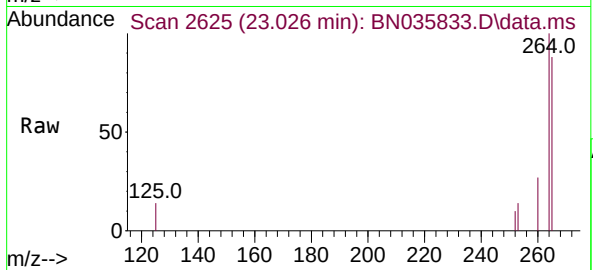
Acq: 24 Dec 2024 23:18

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20241219



Tgt Ion:264 Resp: 7784

Ion Ratio Lower Upper

264 100

260 27.0 21.4 32.2

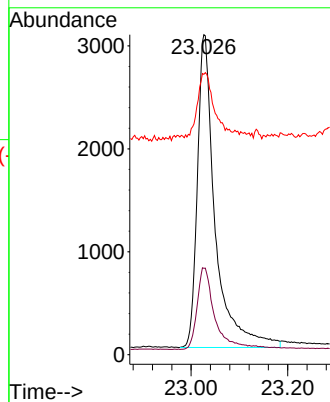
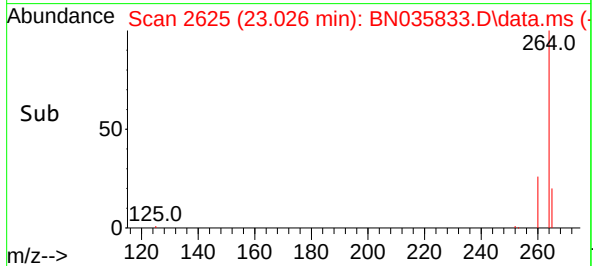
265 87.6 40.2 60.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW11-MW011-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-17	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN035834.D	1	12/23/24 13:29	12/24/24 23:53	PB165828

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	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3210	7.257				
1146-65-2	Naphthalene-d8	7680	10.009				
15067-26-2	Acenaphthene-d10	4790	13.925				
1517-22-2	Phenanthrene-d10	10000	16.698				
1719-03-5	Chrysene-d12	8230	20.947				
1520-96-3	Perylene-d12	7810	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\BN122324\
 Data File : BN035834.D
 Acq On : 24 Dec 2024 23:53
 Operator : RC/JU
 Sample : P5376-17
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01I-20241219

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

Quant Time: Dec 25 02:35:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : 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	3211	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7680	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4788	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10028	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8231	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7812	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	770	0.096	ng	-0.01
5) Phenol-d6	6.477	99	388	0.040	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1810m	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4135	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	529	0.156	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	6614	0.365	ng	-0.01
27) Fluoranthene-d10	18.747	212	11419	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	8341	0.514	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	20.893	149	474	0.042	ng	# 96

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

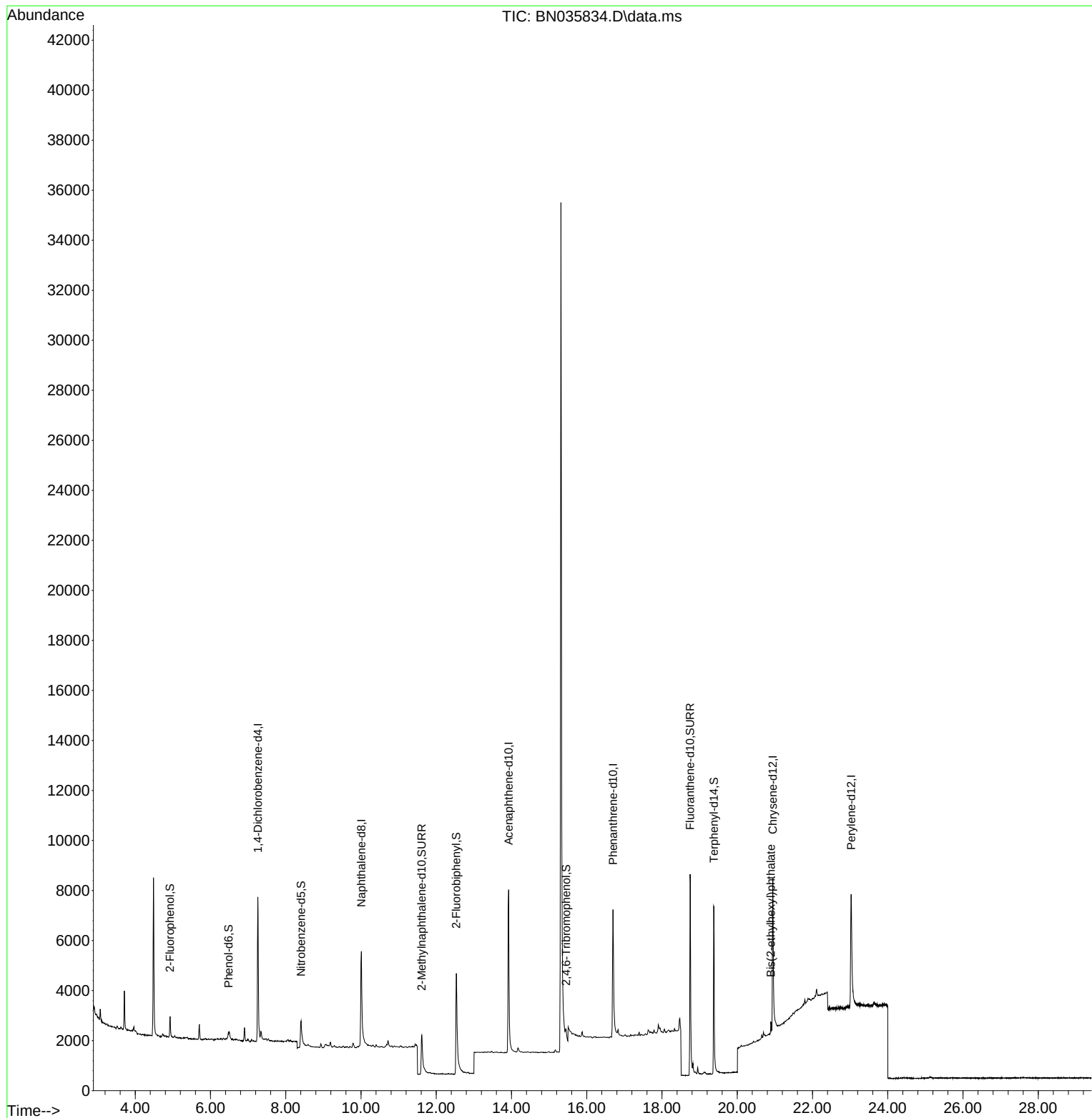
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Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

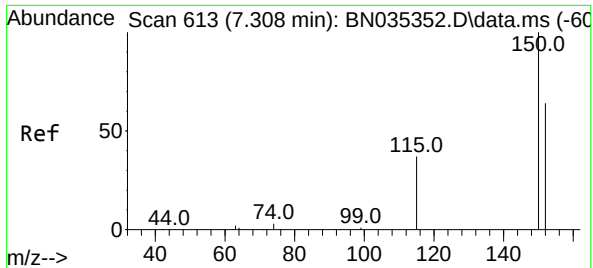
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
APPROVED

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

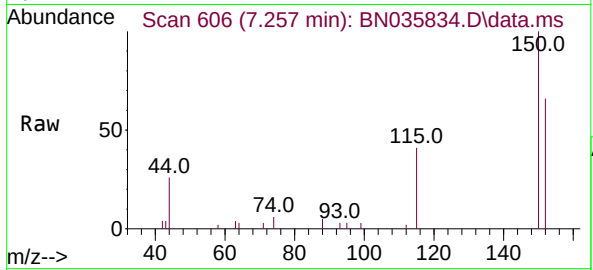
Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 606
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

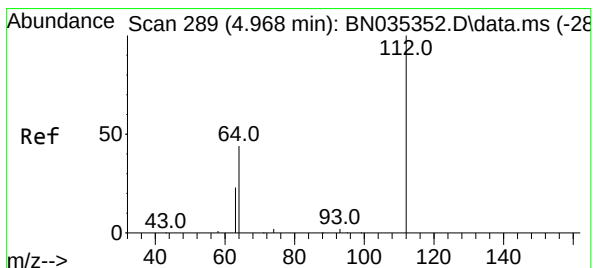
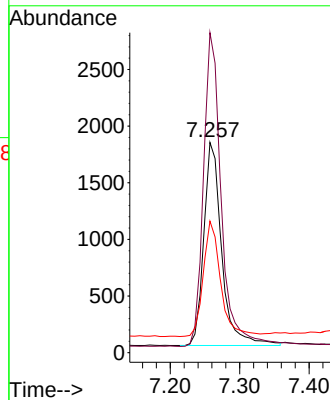
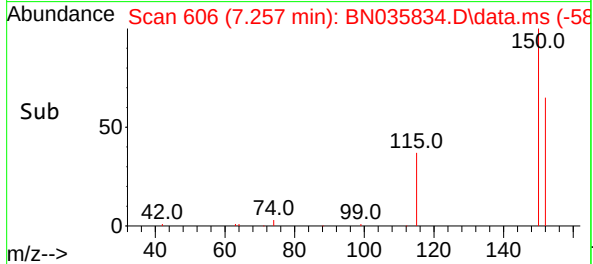
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219



Tgt Ion:152 Resp: 321
Ion Ratio Lower Upper
152 100
150 152.2 124.0 186.0
115 62.6 49.6 74.4

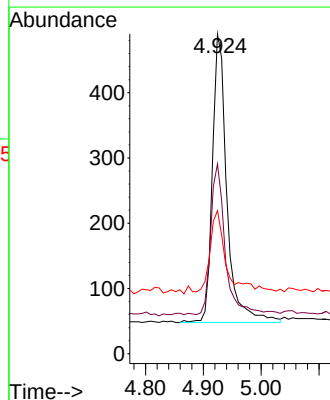
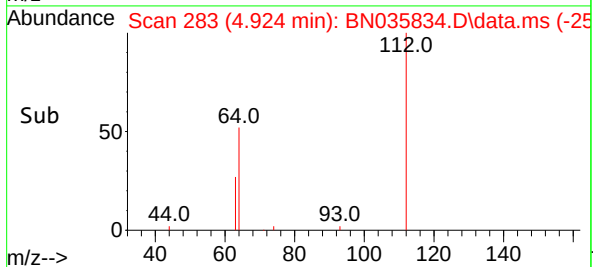
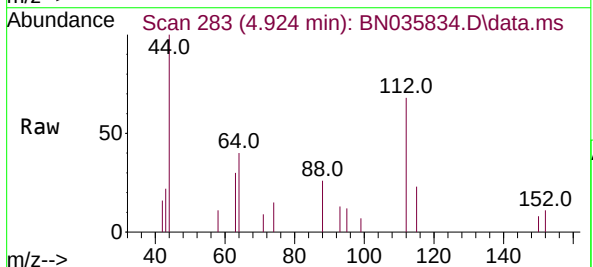
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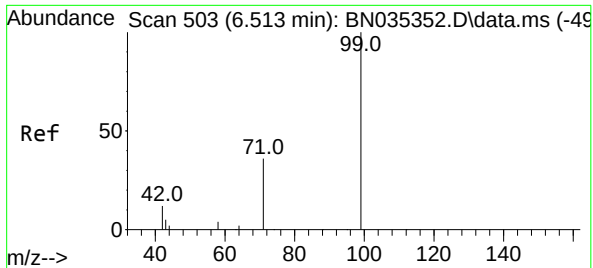
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

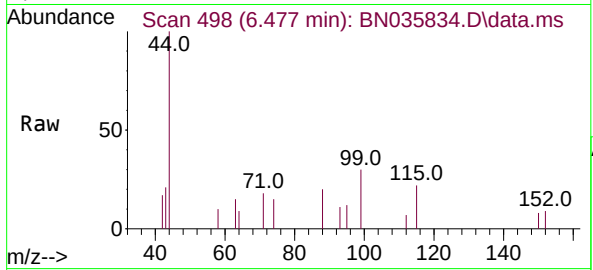
Tgt Ion:112 Resp: 770
Ion Ratio Lower Upper
112 100
64 53.1 39.8 59.8
63 31.9 21.0 31.6#





#5
Phenol-d6
Concen: 0.040 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

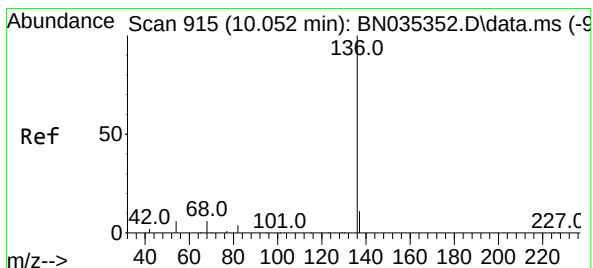
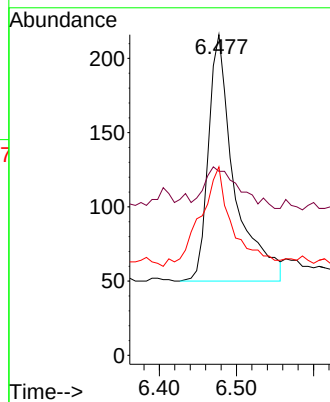
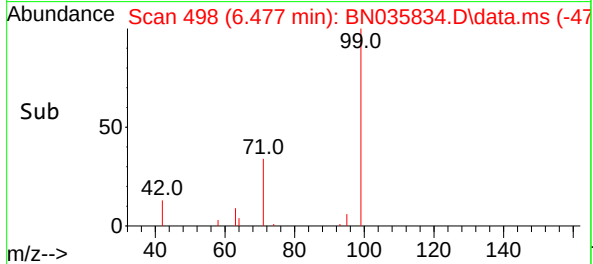
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219



Tgt Ion: 99 Resp: 388
Ion Ratio Lower Upper
99 100
42 25.5 11.4 17.2
71 49.7 29.3 43.9

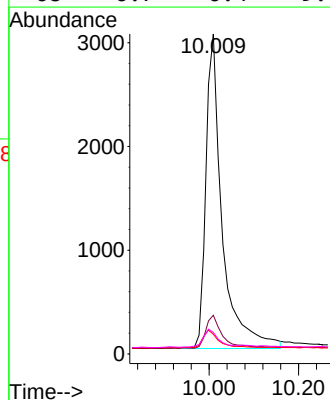
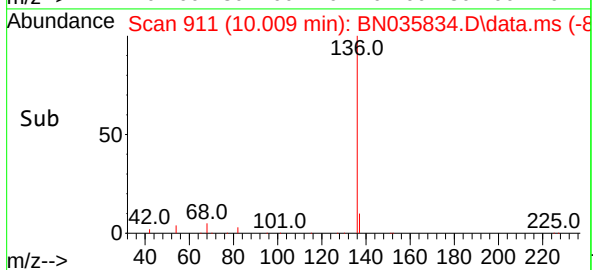
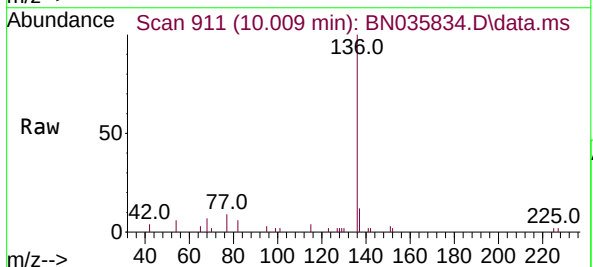
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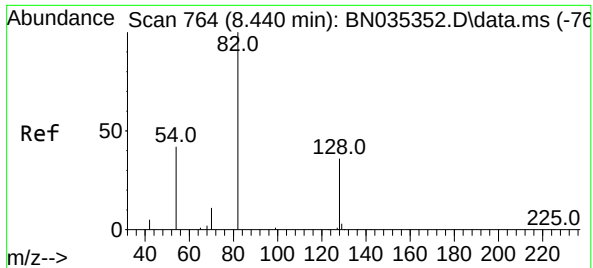
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

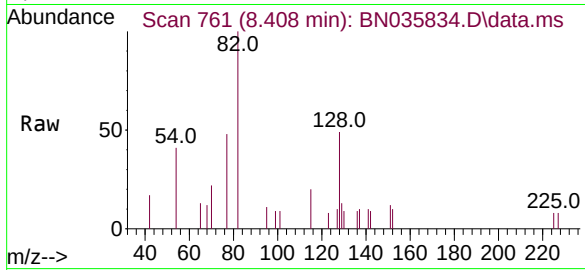
Tgt Ion:136 Resp: 7680
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 6.2 6.1 9.1
68 6.7 6.4 9.6





#8
Nitrobenzene-d5
Concen: 0.386 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

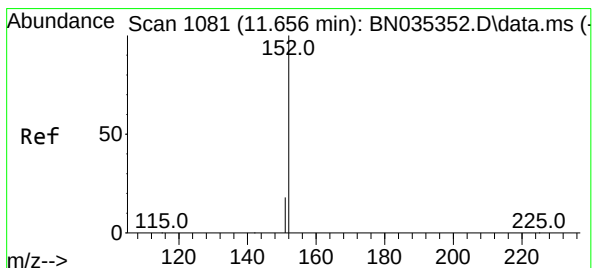
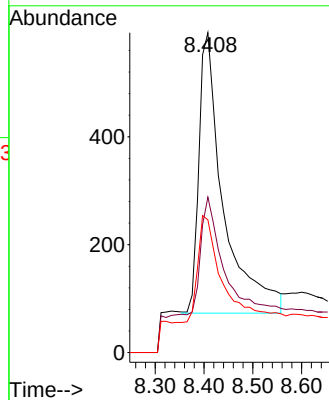
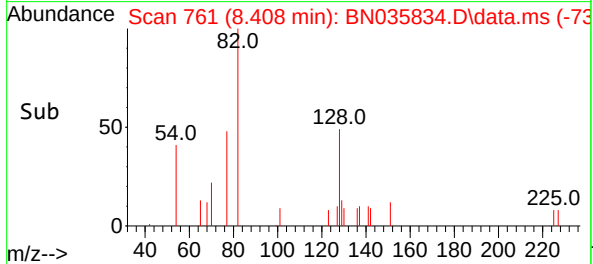
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219



Tgt Ion: 82 Resp: 1810
Ion Ratio Lower Upper
82 100
128 48.6 33.4 50.0
54 41.5 36.7 55.1

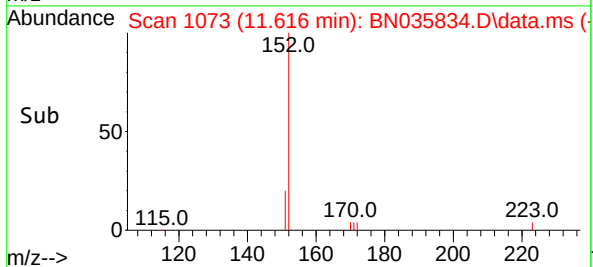
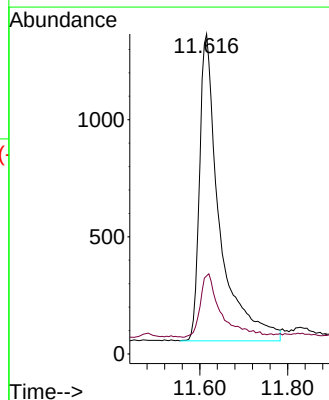
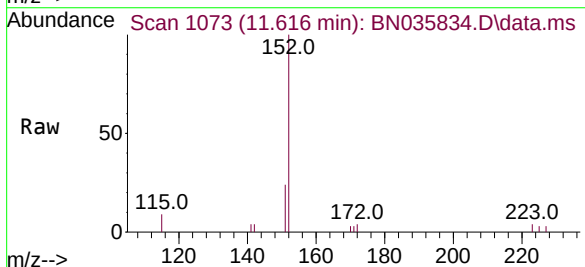
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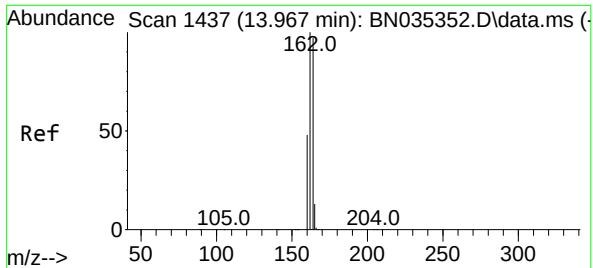
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

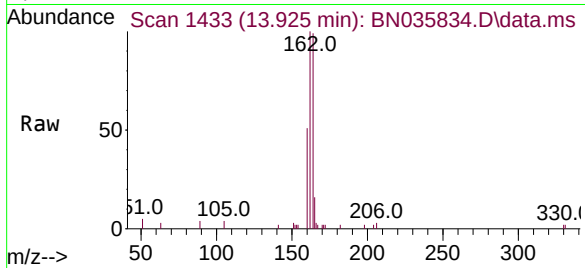
Tgt Ion:152 Resp: 4135
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

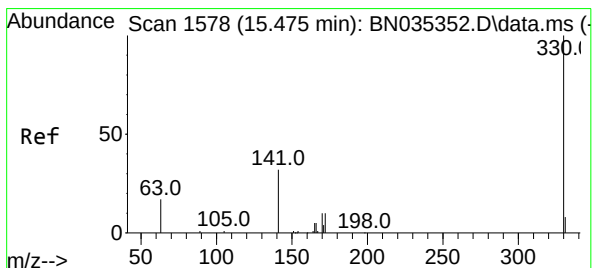
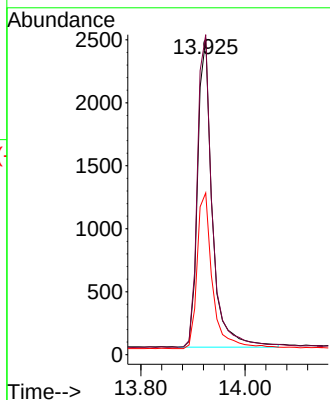
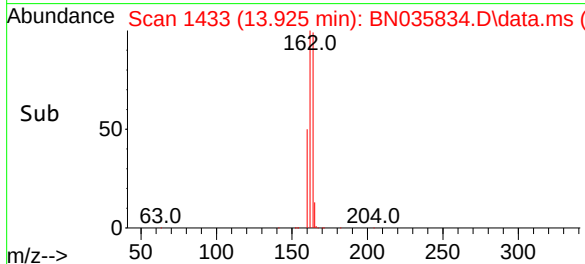
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219



Tgt Ion:164 Resp: 4788
Ion Ratio Lower Upper
164 100
162 101.2 82.2 123.2
160 51.2 40.1 60.1

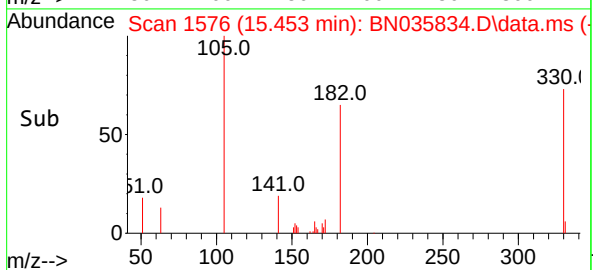
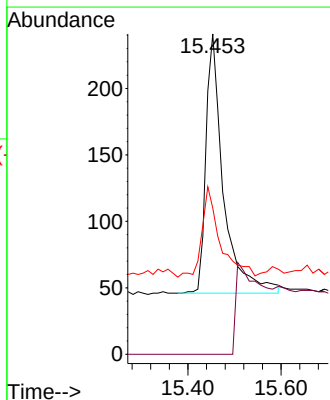
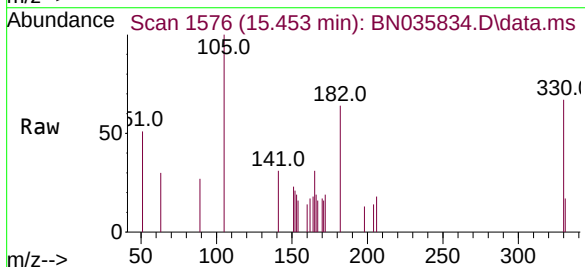
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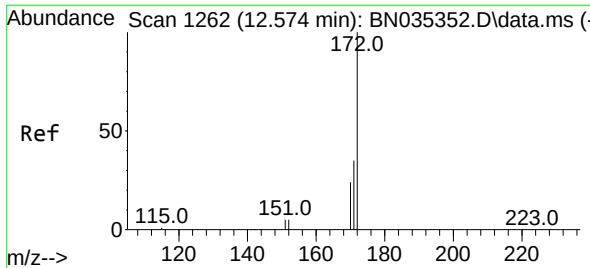
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

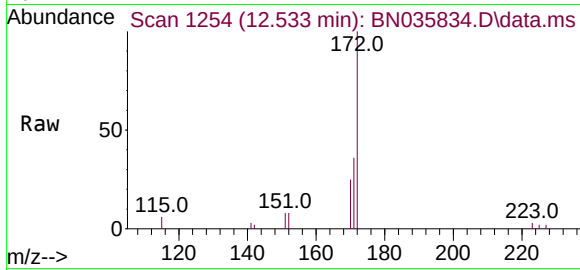
Tgt Ion:330 Resp: 529
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

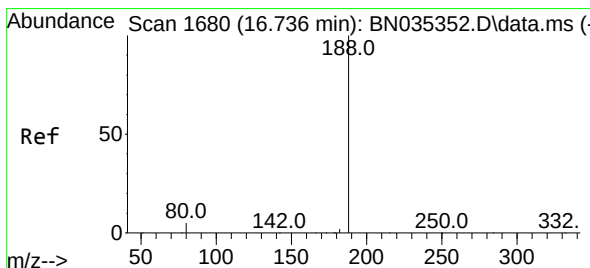
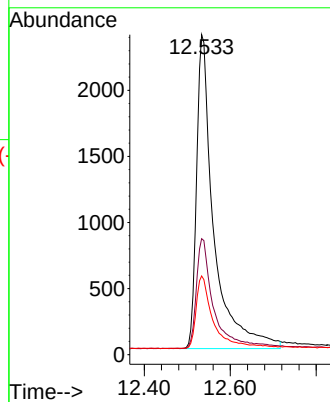
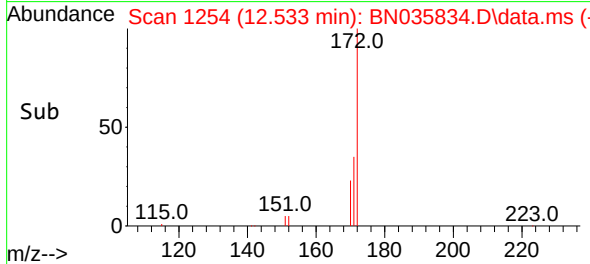
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219



Tgt Ion:172 Resp: 6614
Ion Ratio Lower Upper
172 100
171 36.3 29.0 43.4
170 24.6 19.8 29.8

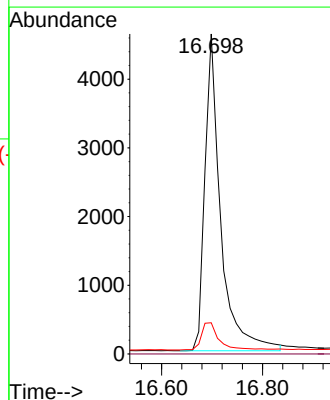
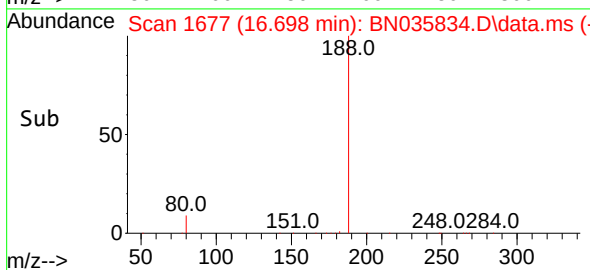
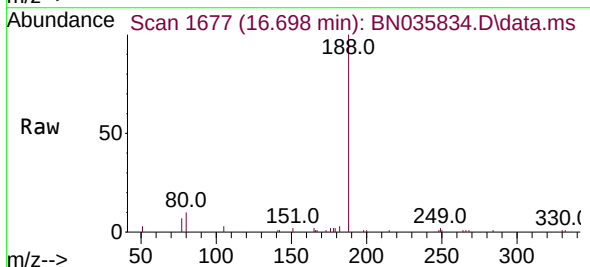
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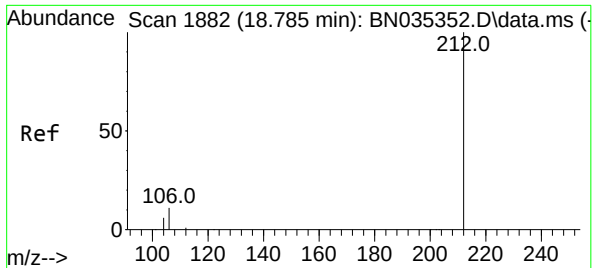
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:188 Resp: 10028
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.7 4.6 6.8





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 18.747 min Scan# 11419

Delta R.T. -0.014 min

Lab File: BN035834.D

Acq: 24 Dec 2024 23:53

Instrument :

BNA_N

ClientSampleId :

RW11-MW01I-20241219

Tgt Ion:212 Resp: 11419

Ion Ratio Lower Upper

212 100

106 11.2 9.2 13.8

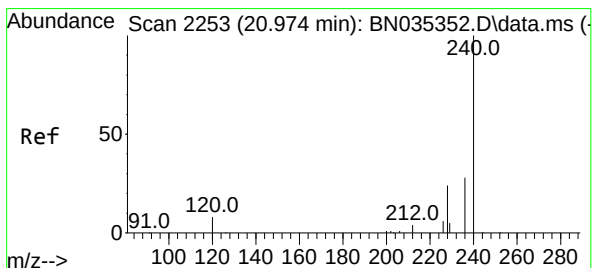
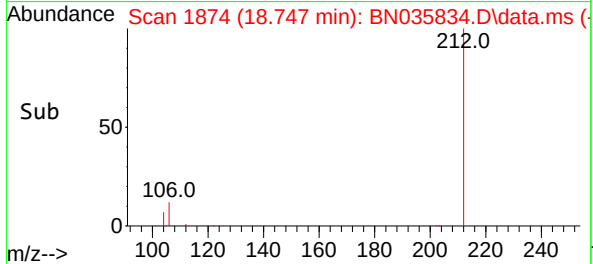
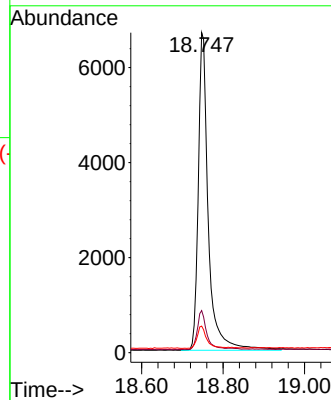
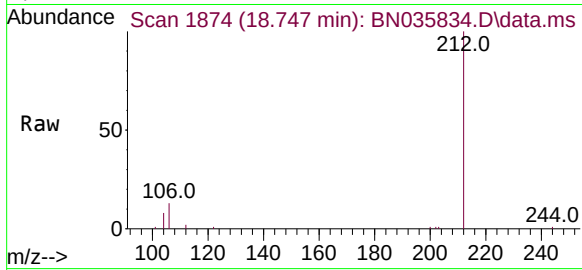
104 6.7 5.3 7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

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: BN035834.D

Acq: 24 Dec 2024 23:53

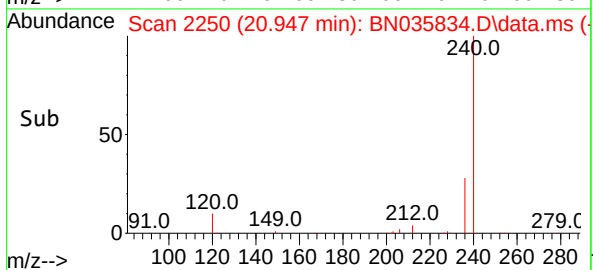
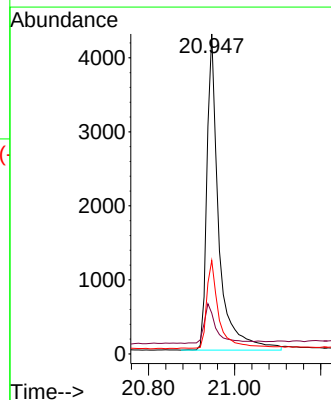
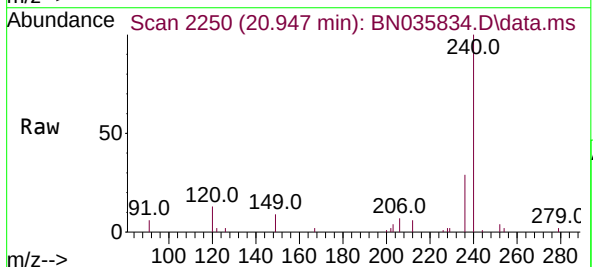
Tgt Ion:240 Resp: 8231

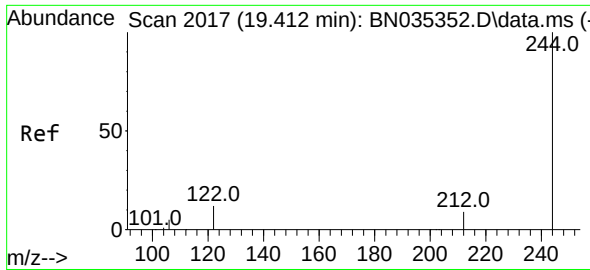
Ion Ratio Lower Upper

240 100

120 12.7 7.9 11.9#

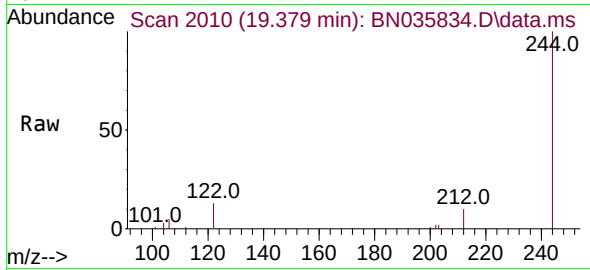
236 29.2 22.9 34.3





#31
Terphenyl-d14
Concen: 0.514 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

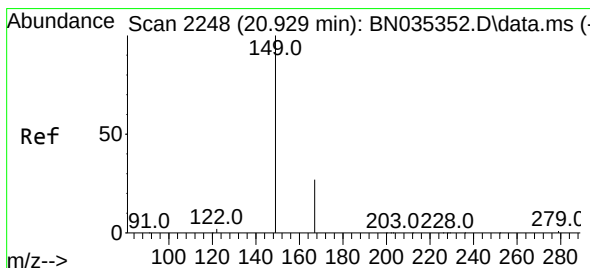
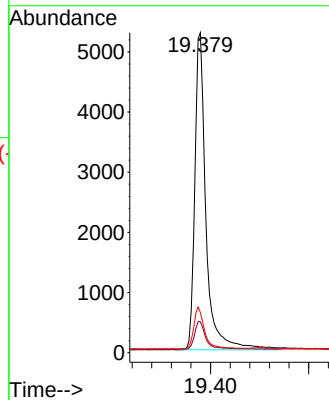
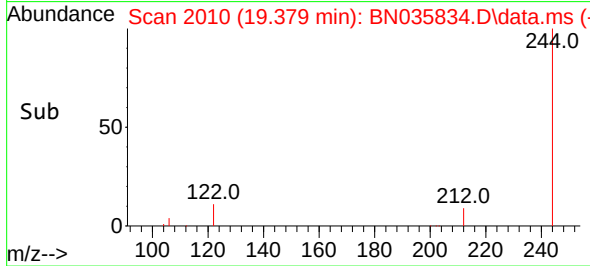
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219



Tgt Ion:244 Resp: 834
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.6 10.3 15.5

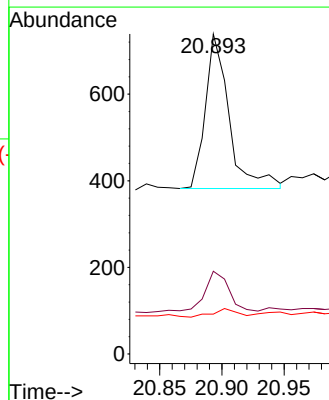
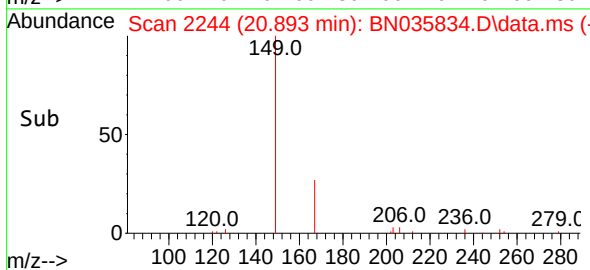
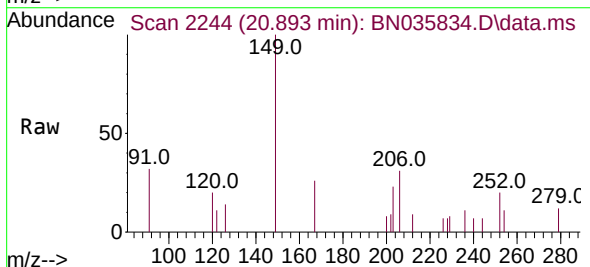
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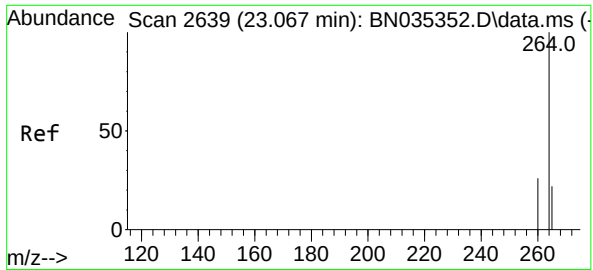
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:149 Resp: 474
Ion Ratio Lower Upper
149 100
167 26.2 22.2 33.4
279 5.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.026 min Scan# 20

Delta R.T. -0.015 min

Lab File: BN035834.D

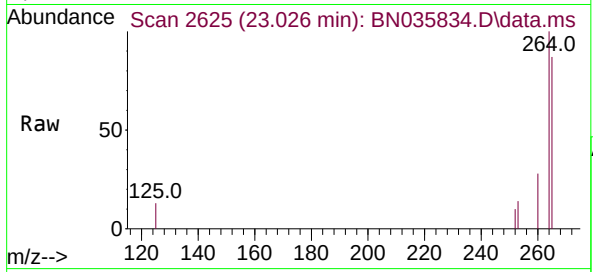
Acq: 24 Dec 2024 23:53

Instrument :

BNA_N

ClientSampleId :

RW11-MW01I-20241219



Tgt Ion:264 Resp: 781

Ion Ratio Lower Upper

264 100

260 27.8 21.4 32.2

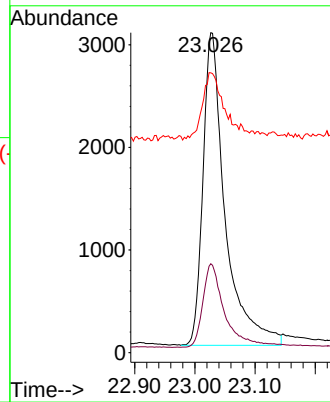
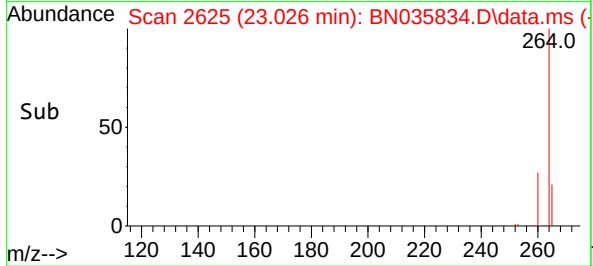
265 87.5 40.2 60.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT119S1-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-18	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
BN035835.D	1	12/23/24 13:29	12/25/24 00:29	PB165828

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	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3270		7.264			
1146-65-2	Naphthalene-d8	7390		10.009			
15067-26-2	Acenaphthene-d10	4620		13.925			
1517-22-2	Phenanthrene-d10	9150		16.698			
1719-03-5	Chrysene-d12	7440		20.947			
1520-96-3	Perylene-d12	7070		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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035835.D
 Acq On : 25 Dec 2024 00:29
 Operator : RC/JU
 Sample : P5376-18
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20241219

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

Quant Time: Dec 25 04:21:48 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	3270	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7393	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4622	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7437	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7071	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	859	0.105	ng	-0.01
5) Phenol-d6	6.484	99	361	0.037	ng	0.00
8) Nitrobenzene-d5	8.408	82	1707m	0.378	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	3916	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	618	0.188	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6261	0.358	ng	0.00
27) Fluoranthene-d10	18.747	212	10636	0.410	ng	-0.01
31) Terphenyl-d14	19.379	244	7814	0.533	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	63	0.020	ng	# 71
34) Bis(2-ethylhexyl)phtha...	20.893	149	496	0.048	ng	99

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

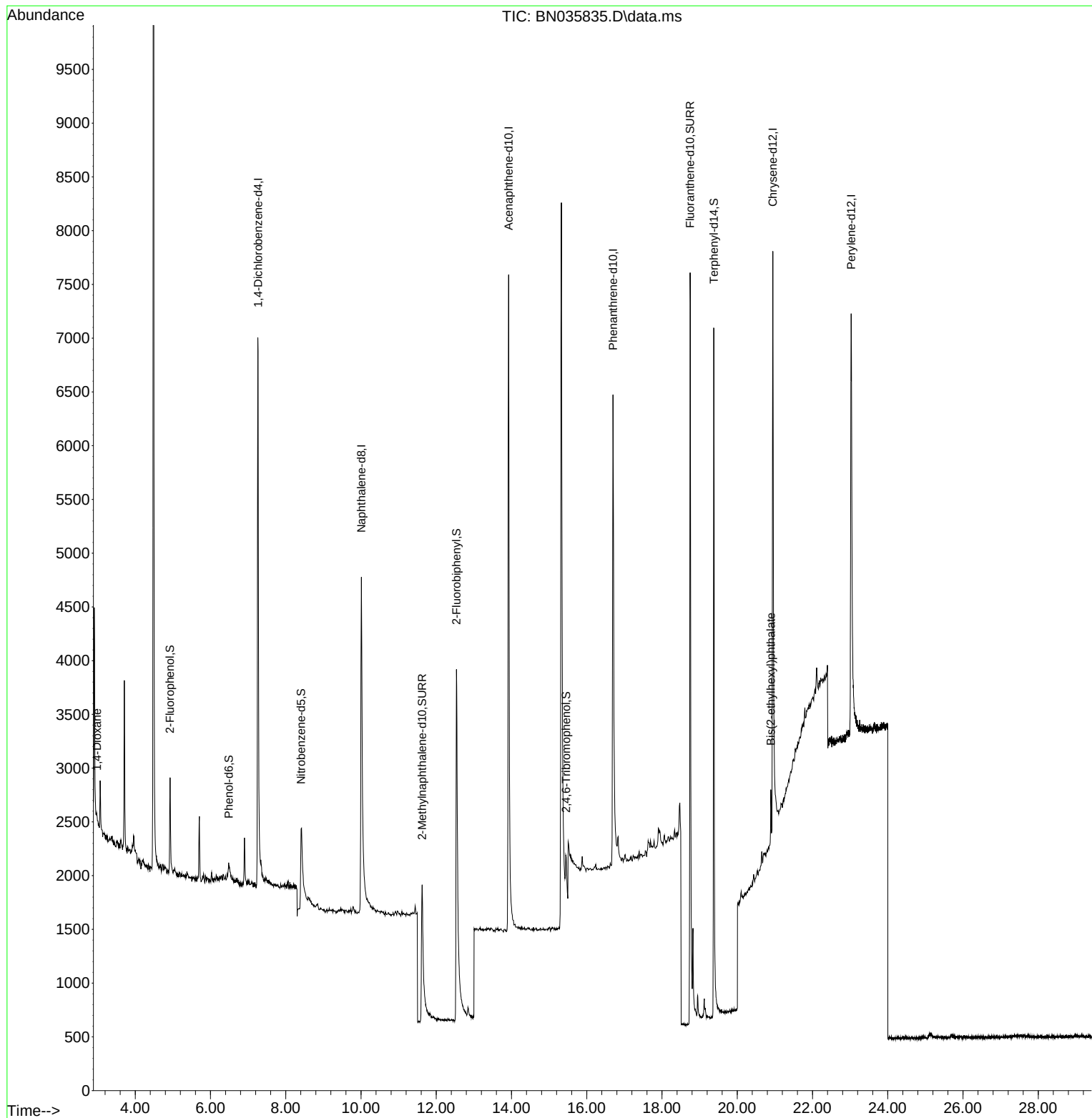
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

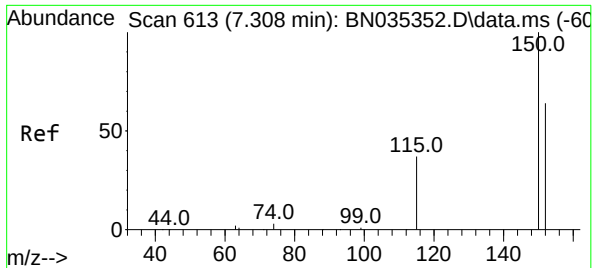
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

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

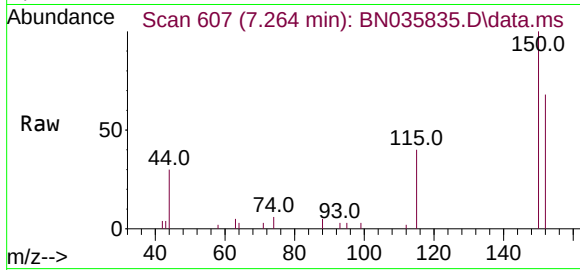
Quant Time: Dec 25 04:21:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

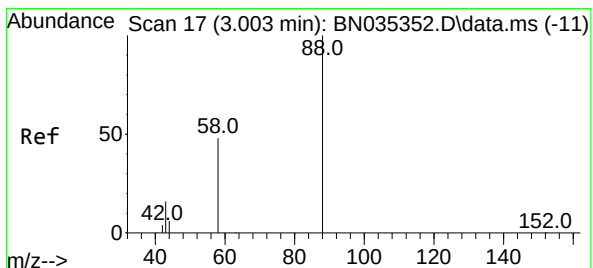
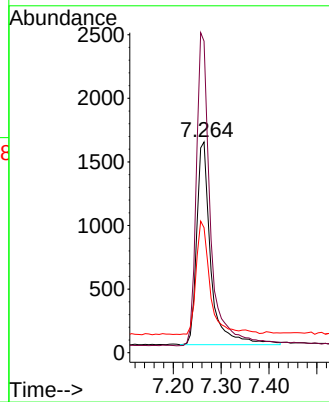
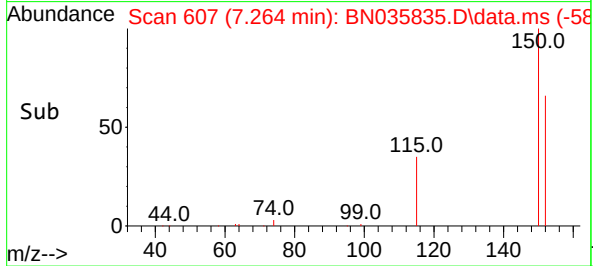
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219



Tgt Ion:152 Resp: 3270
Ion Ratio Lower Upper
152 100
150 147.9 124.0 186.0
115 59.3 49.6 74.4

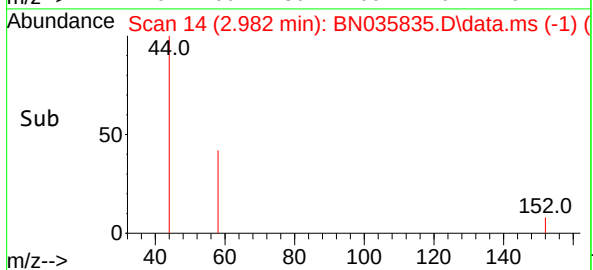
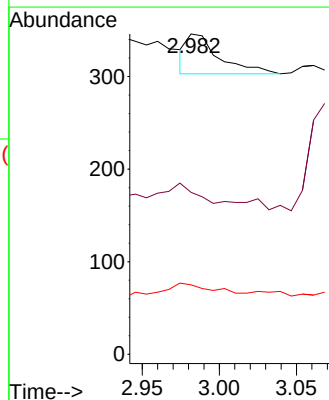
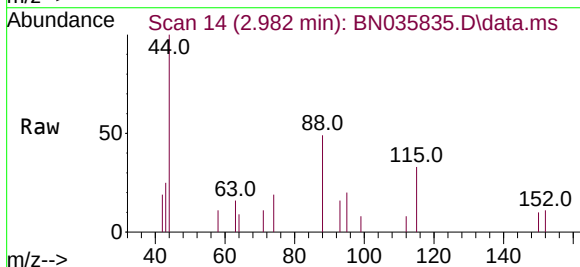
Manual Integrations
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Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

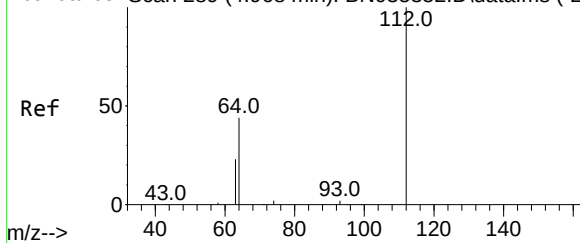


#2
1,4-Dioxane
Concen: 0.020 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 41.3 17.2 25.8#
58 38.1 44.5 66.7#



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.105 ng

RT: 4.924 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035835.D

Acq: 25 Dec 2024 00:29

Instrument :

BNA_N

ClientSampleId :

TT119S1-20241219

Tgt Ion:112 Resp: 859

Ion Ratio Lower Upper

112 100

64 51.0 39.8 59.8

63 30.2 21.0 31.6

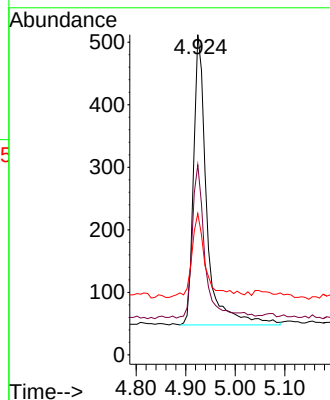
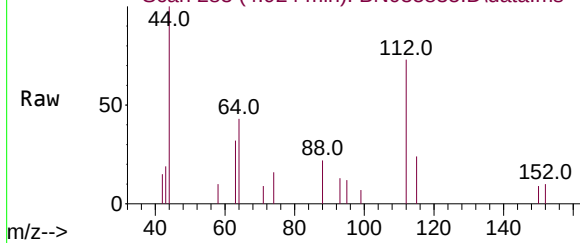
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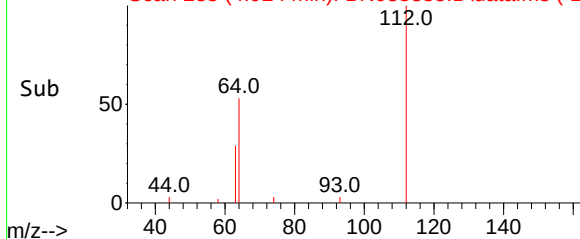
Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024

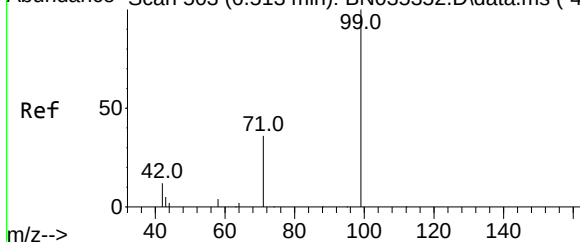
Abundance Scan 283 (4.924 min): BN035835.D\data.ms



Abundance Scan 283 (4.924 min): BN035835.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.037 ng

RT: 6.484 min Scan# 499

Delta R.T. -0.007 min

Lab File: BN035835.D

Acq: 25 Dec 2024 00:29

Tgt Ion: 99 Resp: 361

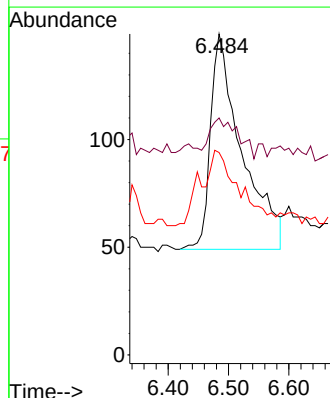
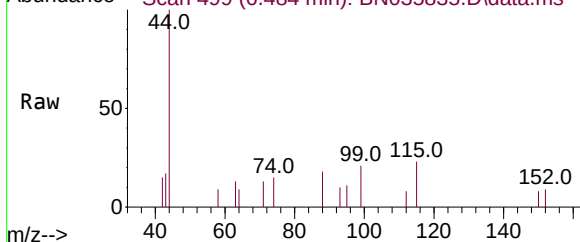
Ion Ratio Lower Upper

99 100

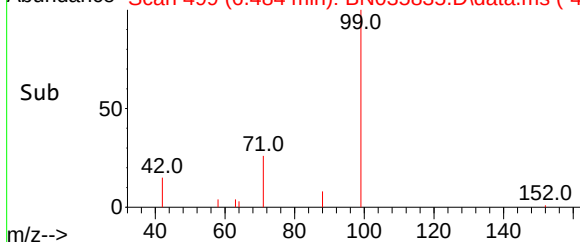
42 16.9 11.4 17.2

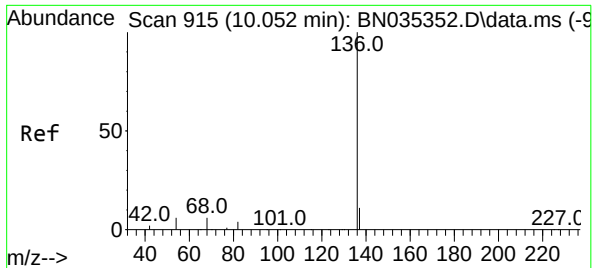
71 25.8 29.3 43.9#

Abundance Scan 499 (6.484 min): BN035835.D\data.ms



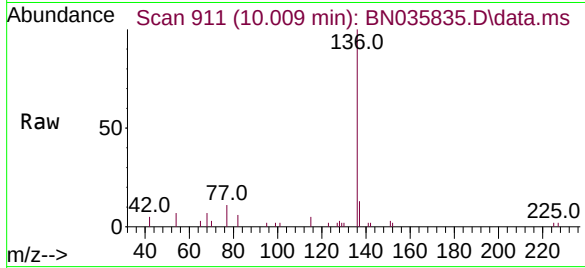
Abundance Scan 499 (6.484 min): BN035835.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

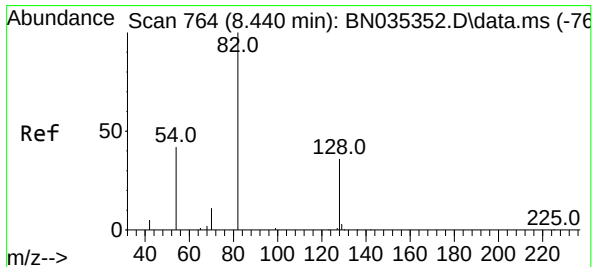
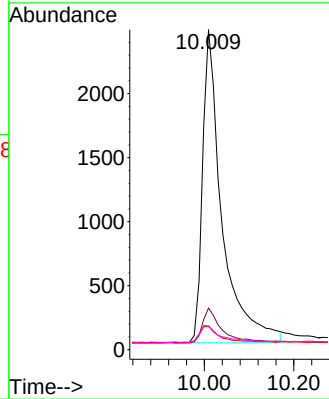
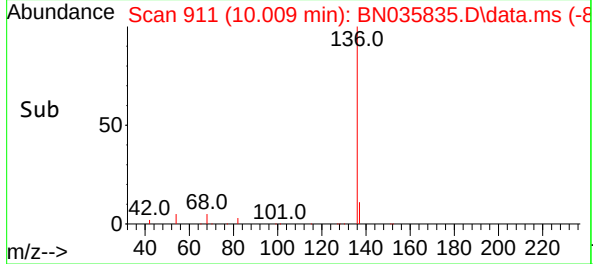
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219



Tgt Ion:136 Resp: 739
Ion Ratio Lower Upper
136 100
137 13.0 10.2 15.2
54 7.4 6.1 9.1
68 7.4 6.4 9.6

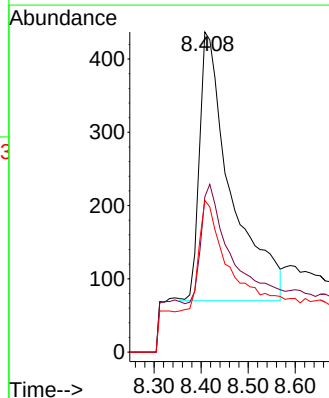
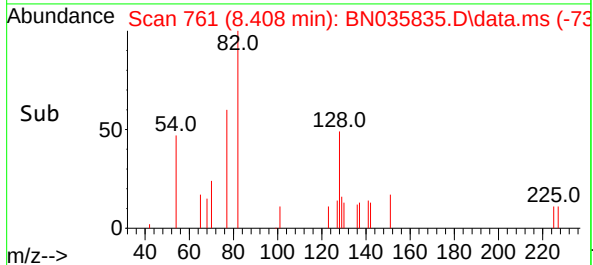
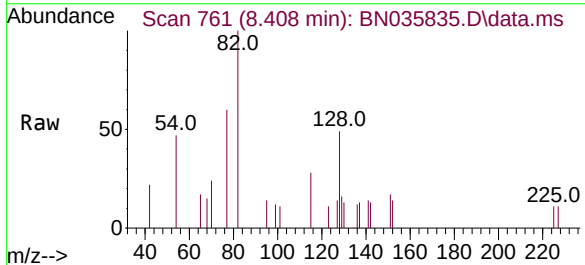
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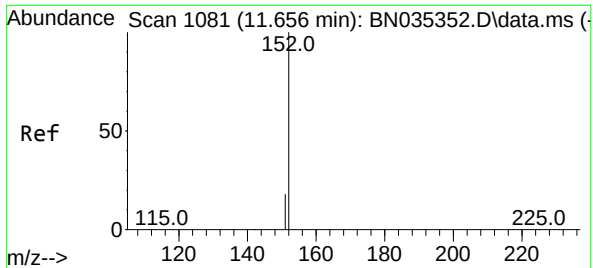
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.378 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

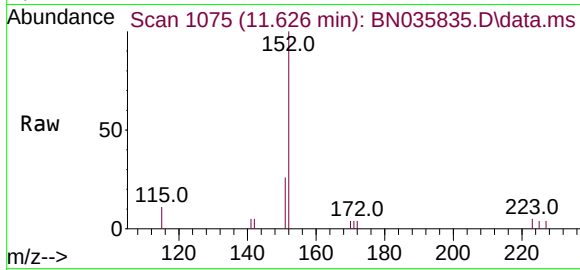
Tgt Ion: 82 Resp: 1707
Ion Ratio Lower Upper
82 100
128 48.5 33.4 50.0
54 47.4 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.626 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

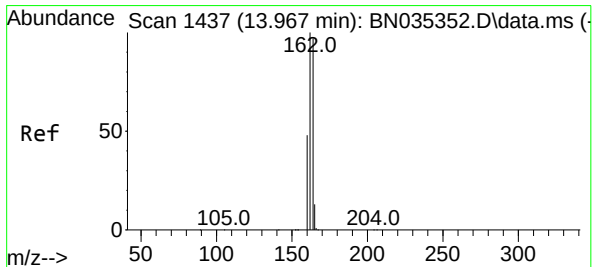
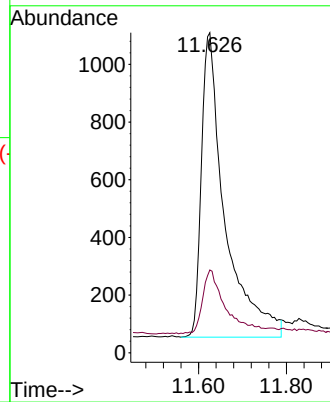
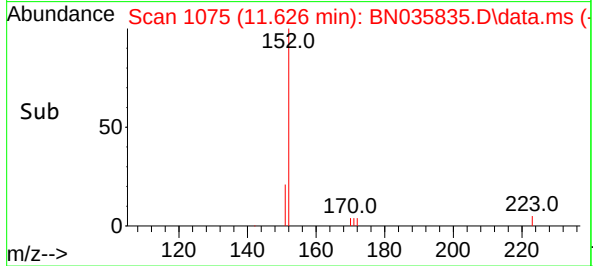
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219



Tgt Ion:152 Resp: 3910
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

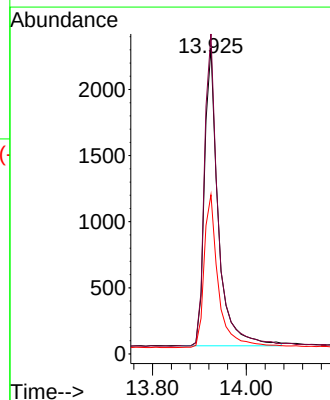
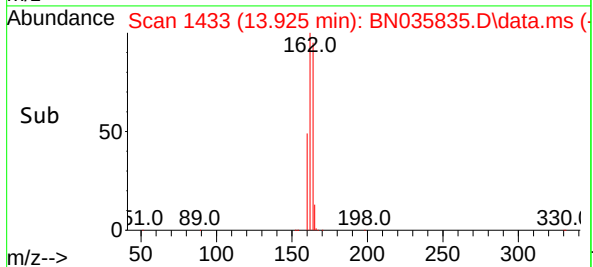
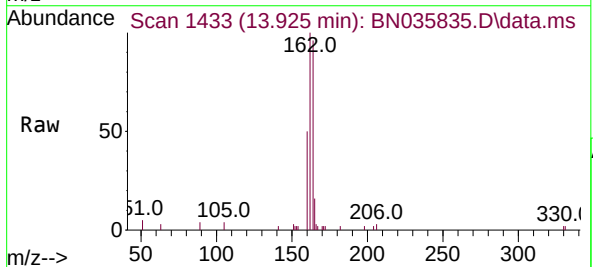
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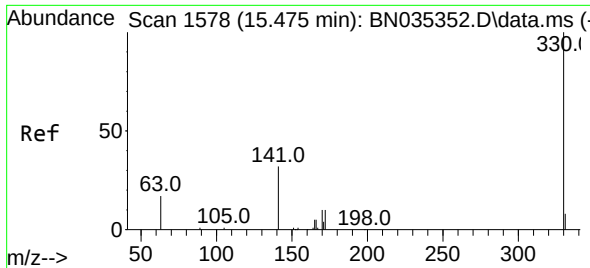
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

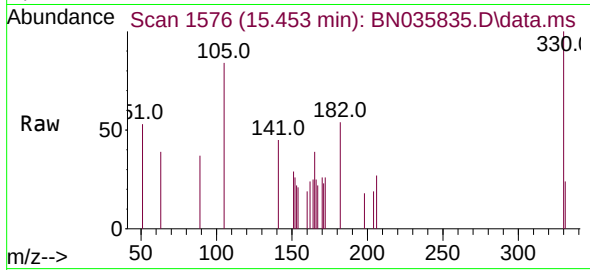
Tgt Ion:164 Resp: 4622
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 52.0 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

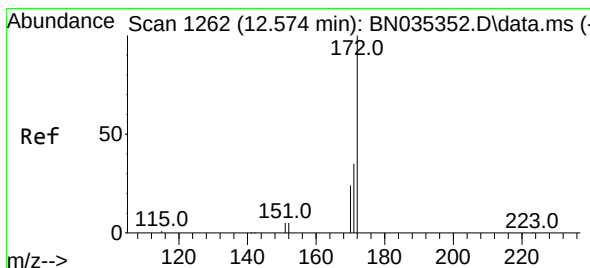
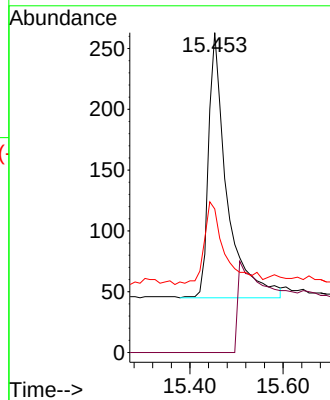
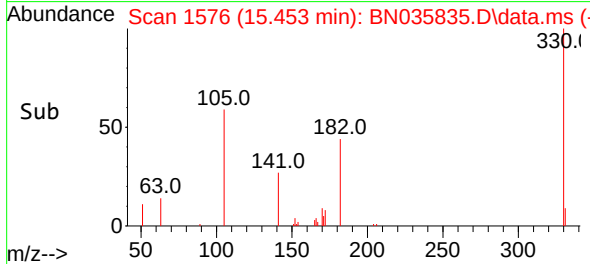
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219



Tgt Ion:330 Resp: 618
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.8 26.6 40.0

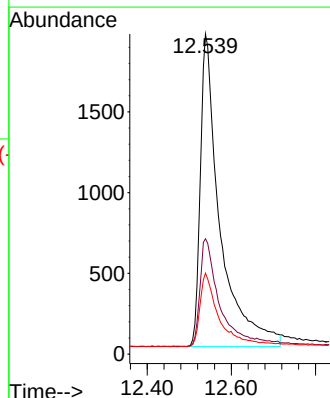
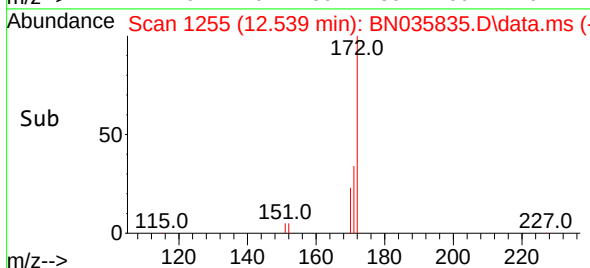
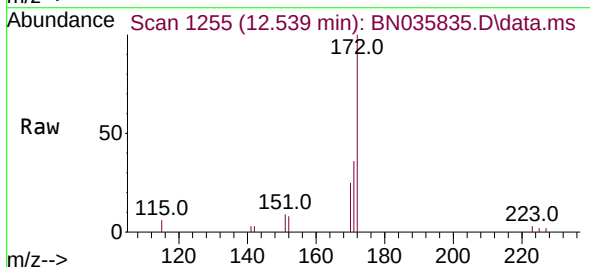
Manual Integrations
APPROVED

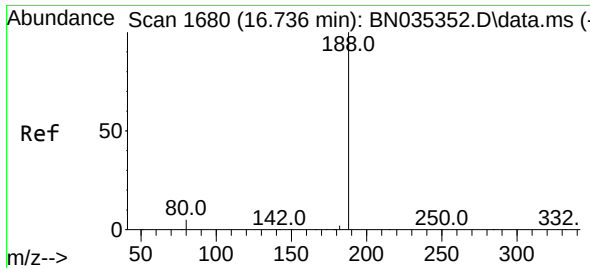
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

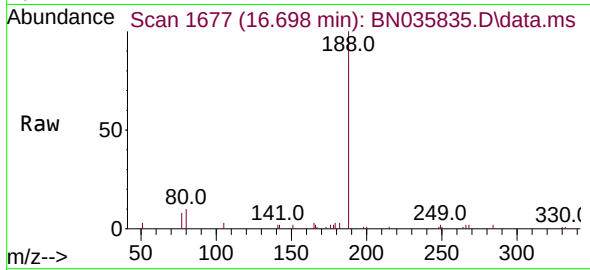
Tgt Ion:172 Resp: 6261
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 25.3 19.8 29.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

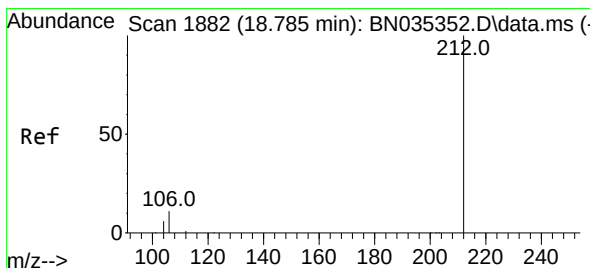
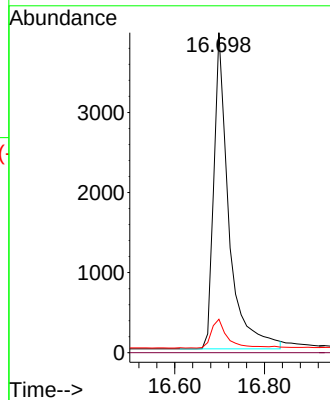
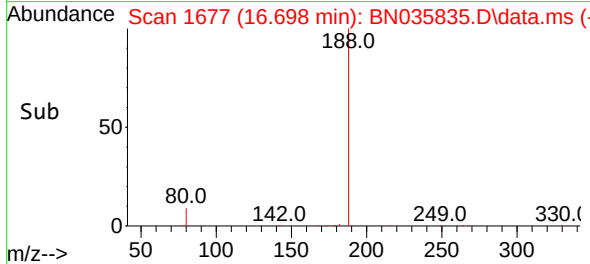
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219



Tgt Ion:188 Resp: 915
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 4.6 6.8

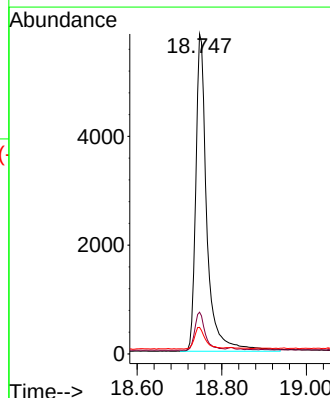
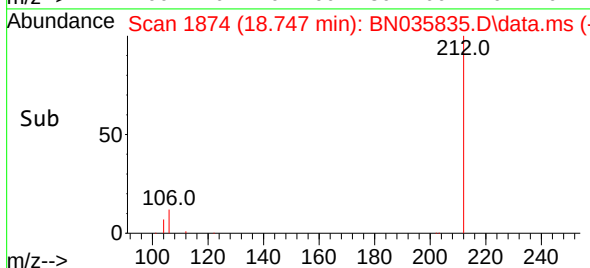
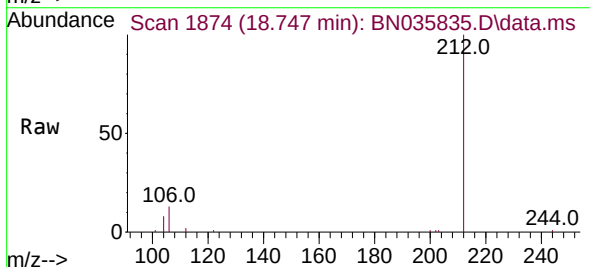
Manual Integrations
APPROVED

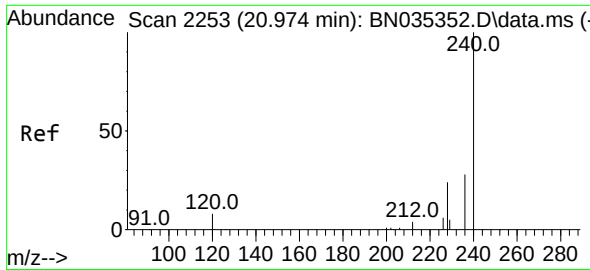
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:212 Resp: 10636
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.7 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2010

Delta R.T. -0.009 min

Lab File: BN035835.D

Acq: 25 Dec 2024 00:29

Instrument :

BNA_N

ClientSampleId :

TT119S1-20241219

Tgt Ion:240 Resp: 743

Ion Ratio Lower Upper

240 100

120 13.5 7.9 11.9

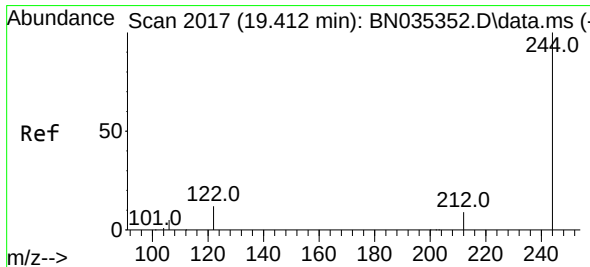
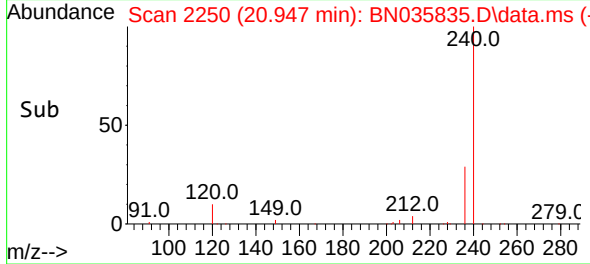
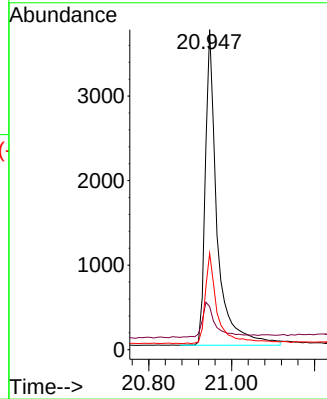
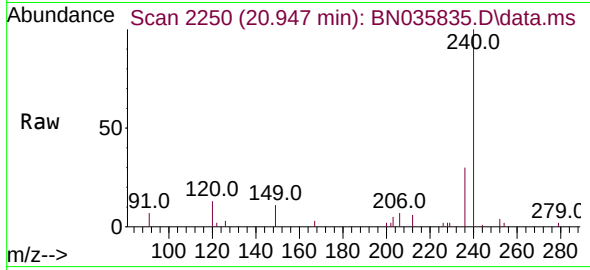
236 30.1 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



#31

Terphenyl-d14

Concen: 0.533 ng

RT: 19.379 min Scan# 2010

Delta R.T. -0.009 min

Lab File: BN035835.D

Acq: 25 Dec 2024 00:29

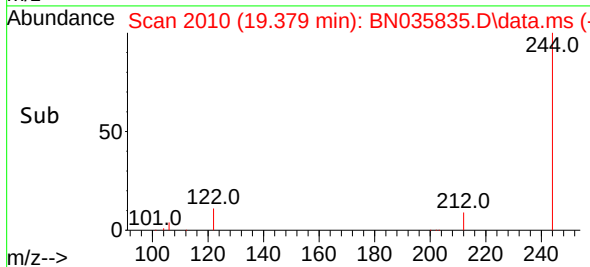
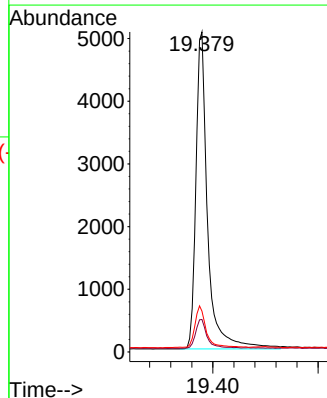
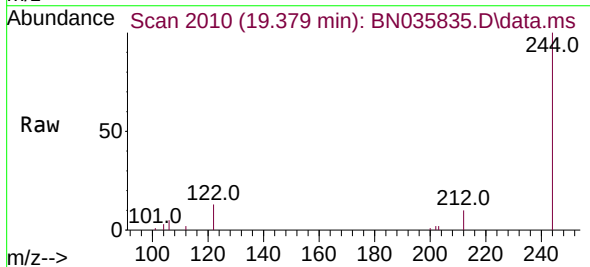
Tgt Ion:244 Resp: 7814

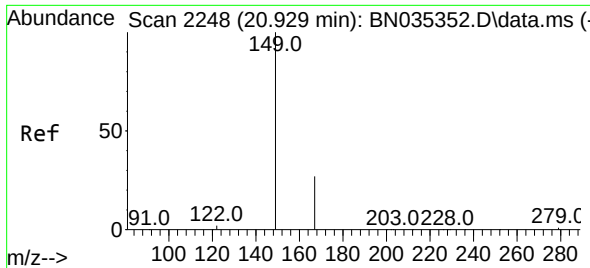
Ion Ratio Lower Upper

244 100

212 10.1 8.1 12.1

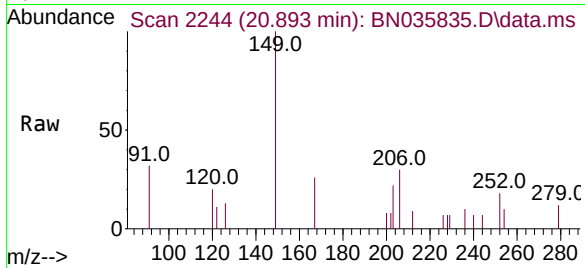
122 12.7 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

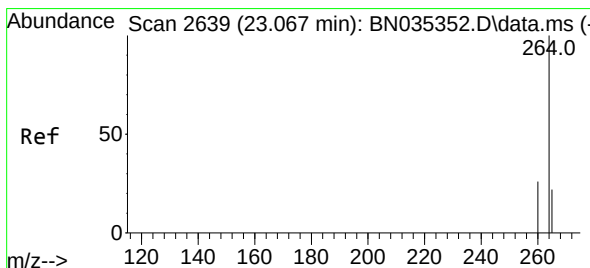
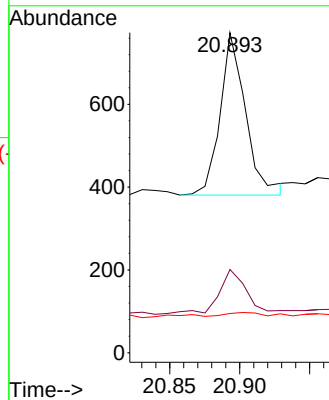
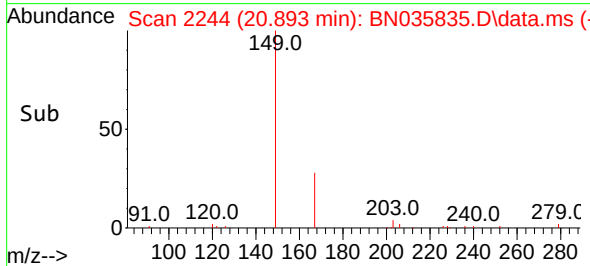
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219



Tgt Ion:149 Resp: 490
Ion Ratio Lower Upper
149 100
167 28.4 22.2 33.4
279 3.6 2.7 4.1

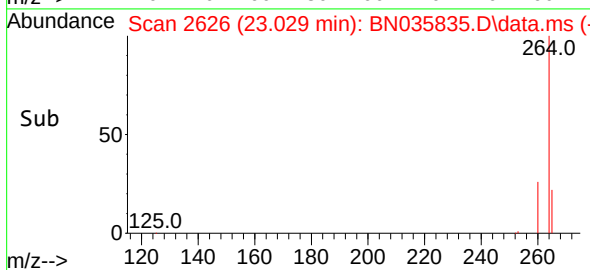
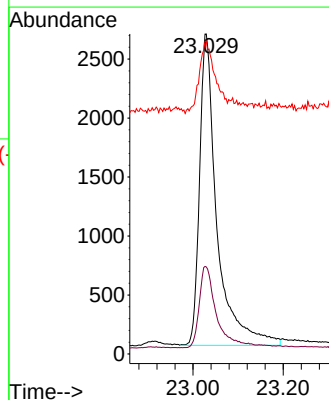
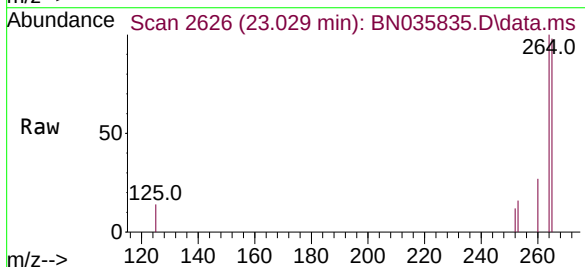
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
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: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:264 Resp: 7071
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 97.8 40.2 60.4#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT188S1-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-19	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
BN035848.D	1	12/23/24 13:29	12/26/24 11:56	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.17	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3480		7.257			
1146-65-2	Naphthalene-d8	8200		10.009			
15067-26-2	Acenaphthene-d10	5300		13.925			
1517-22-2	Phenanthrene-d10	11500		16.698			
1719-03-5	Chrysene-d12	9720		20.938			
1520-96-3	Perylene-d12	9430		23.024			

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 : BN035848.D
 Acq On : 26 Dec 2024 11:56
 Operator : RC/JU
 Sample : P5376-19
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT188S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:39 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	3480	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8196	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	5304	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng	# 0.00
29) Chrysene-d12	20.938	240	9719	0.400	ng	#-0.02
35) Perylene-d12	23.024	264	9432	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	914	0.105	ng	-0.01
5) Phenol-d6	6.477	99	498	0.048	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2218m	0.443	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4509	0.352	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	838	0.223	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	7269	0.363	ng	-0.01
27) Fluoranthene-d10	18.748	212	14226	0.435	ng	-0.01
31) Terphenyl-d14	19.375	244	10878	0.567	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.975	88	577	0.173	ng	# 83
34) Bis(2-ethylhexyl)phtha...	20.893	149	751	0.056	ng	# 95

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

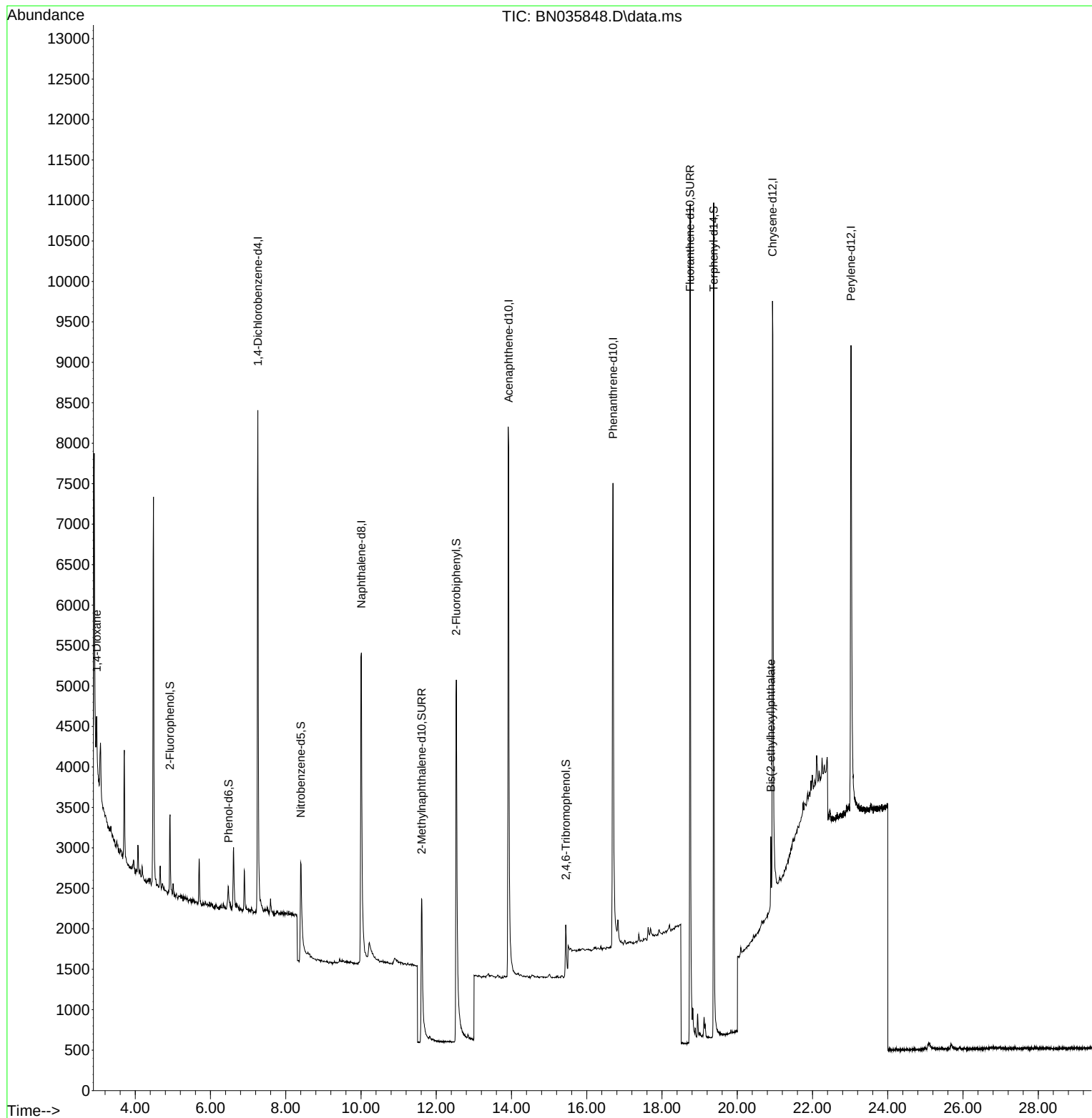
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

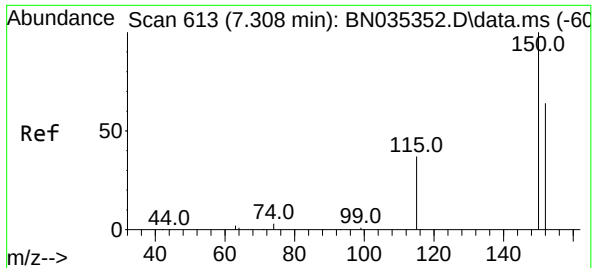
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

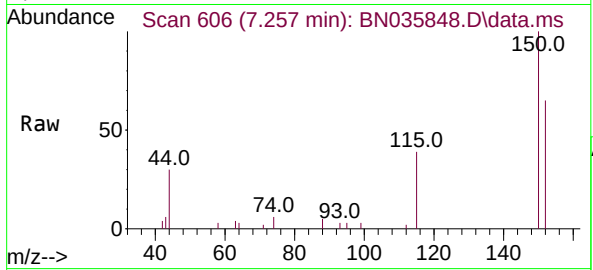
Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

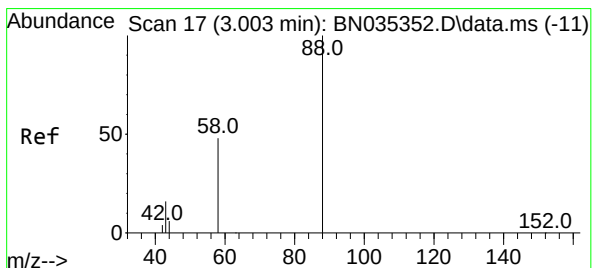
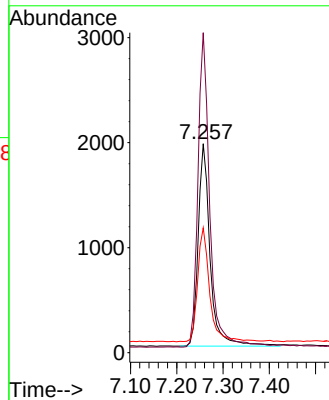
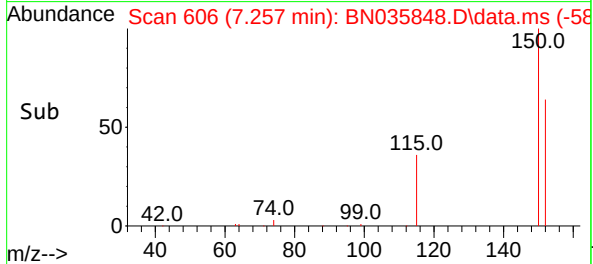
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion:152 Resp: 3480
Ion Ratio Lower Upper
152 100
150 153.1 124.0 186.0
115 59.7 49.6 74.4

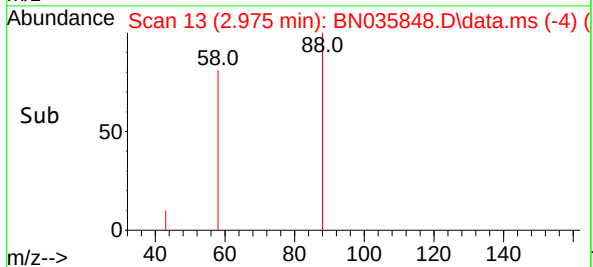
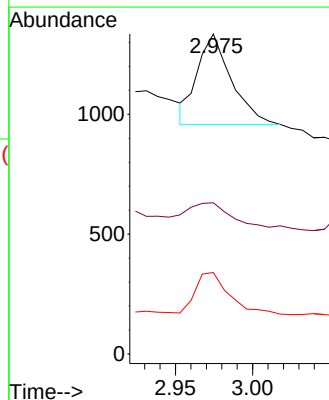
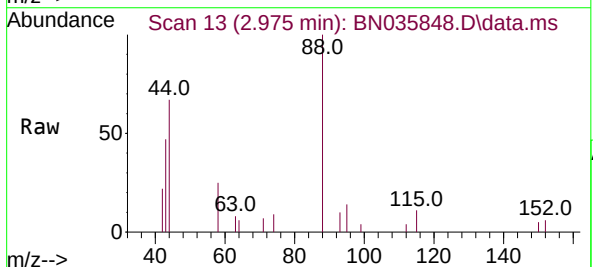
Manual Integrations
APPROVED

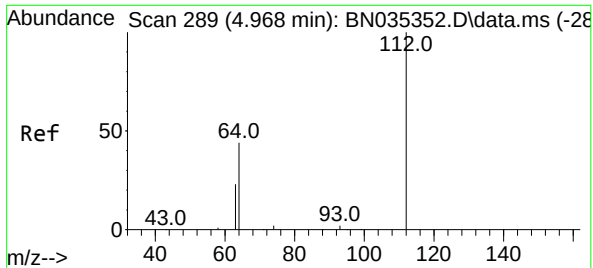
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#2
1,4-Dioxane
Concen: 0.173 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 88 Resp: 577
Ion Ratio Lower Upper
88 100
43 34.5 17.2 25.8#
58 46.1 44.5 66.7





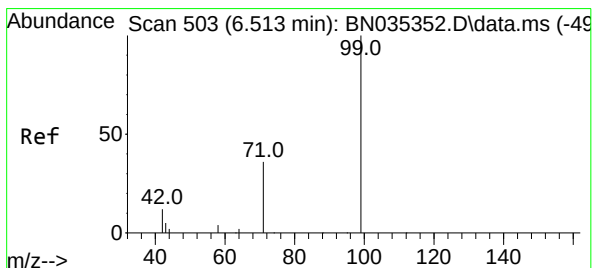
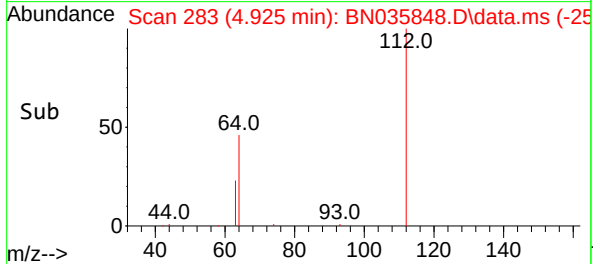
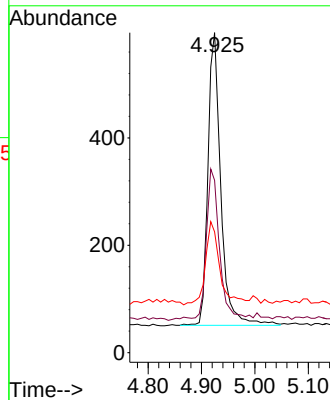
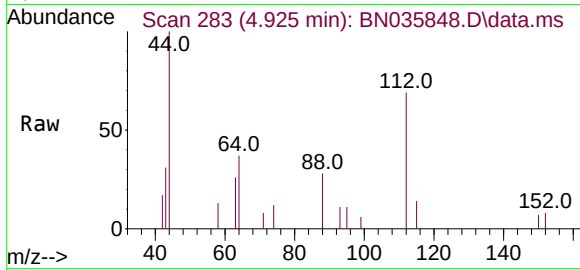
#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.925 min Scan# 21
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion: 112 Resp: 914
Ion Ratio Lower Upper
112 100
64 50.8 39.8 59.8
63 31.6 21.0 31.6

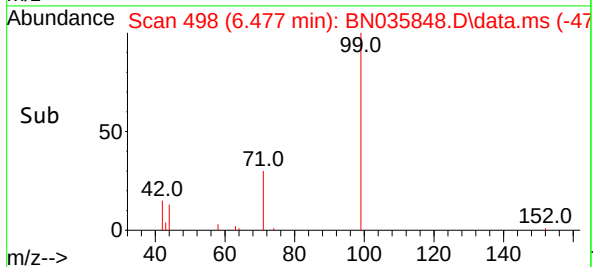
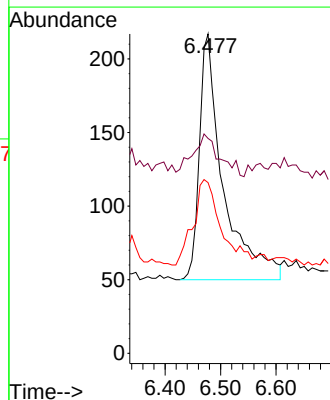
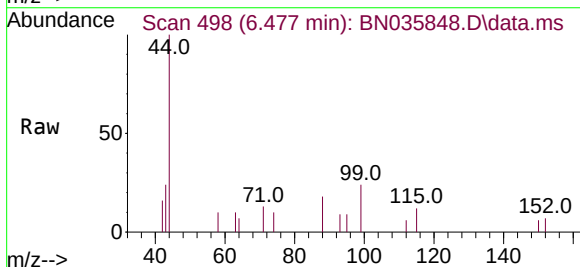
Manual Integrations
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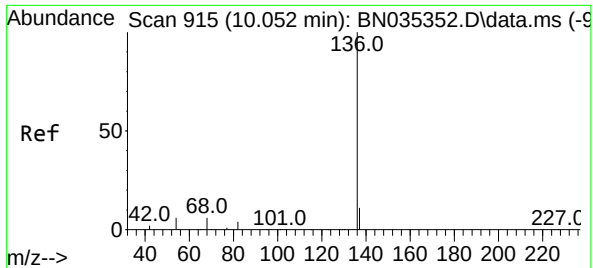
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

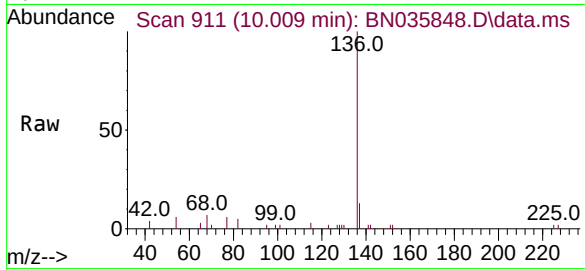
Tgt Ion: 99 Resp: 498
Ion Ratio Lower Upper
99 100
42 19.5 11.4 17.2#
71 40.4 29.3 43.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

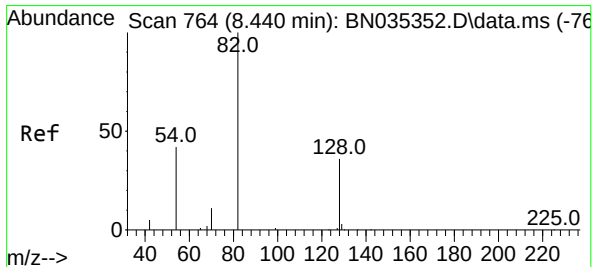
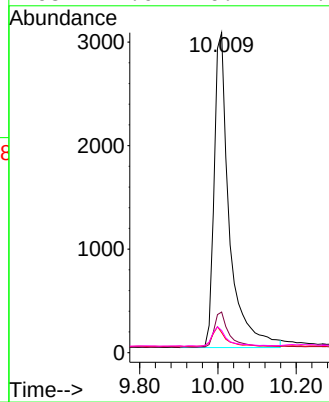
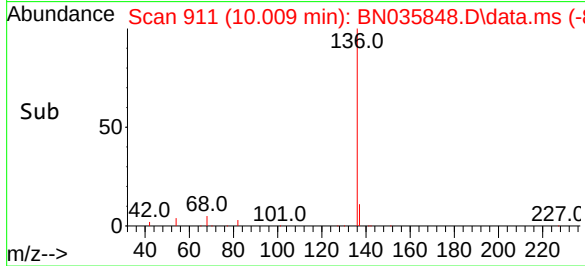
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion:136 Resp: 8190
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 6.3 6.1 9.1
68 7.0 6.4 9.6

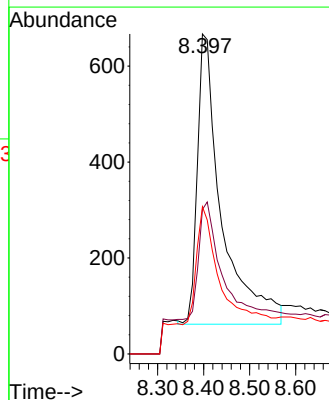
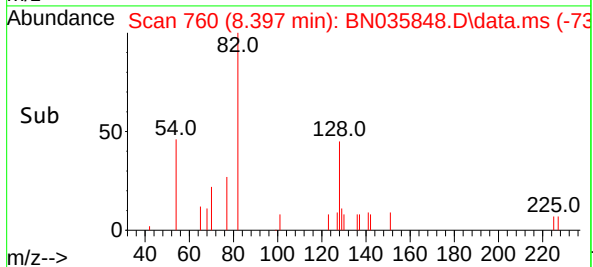
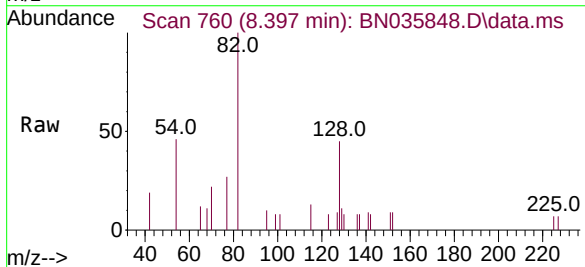
Manual Integrations
APPROVED

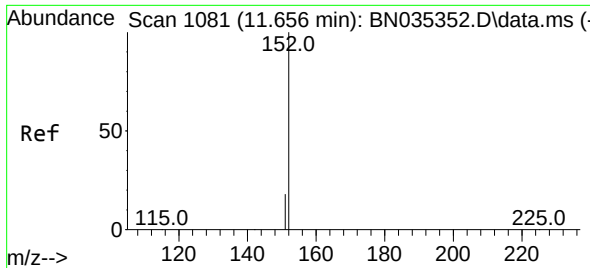
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.443 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

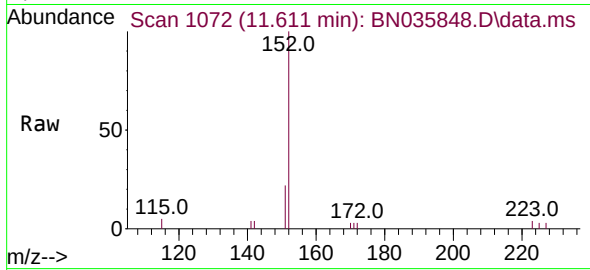
Tgt Ion: 82 Resp: 2218
Ion Ratio Lower Upper
82 100
128 45.1 33.4 50.0
54 46.0 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.611 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

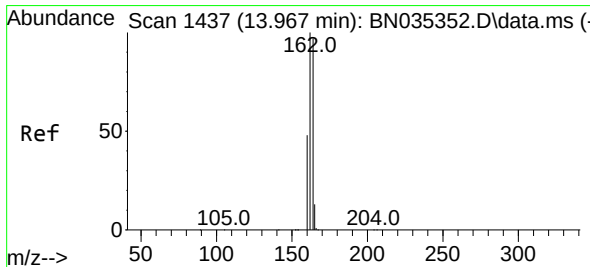
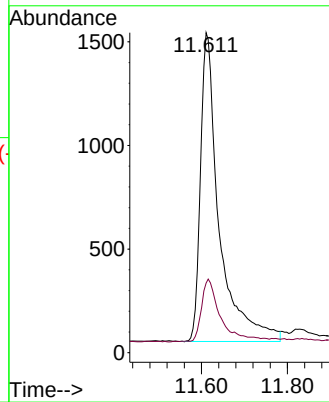
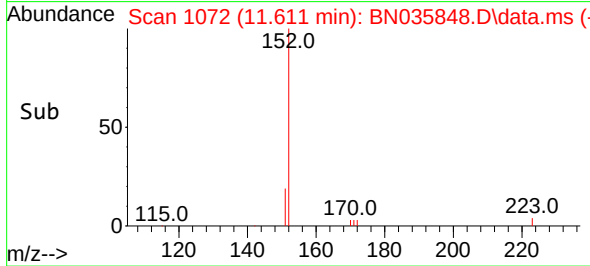
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion:152 Resp: 4509
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

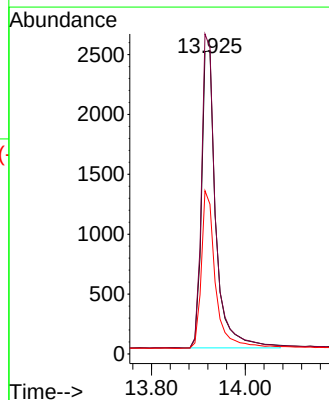
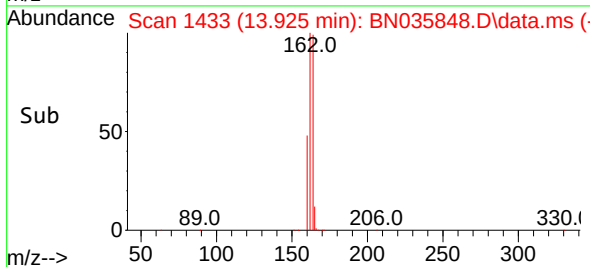
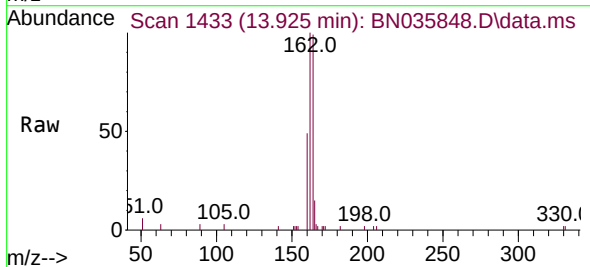
Manual Integrations
APPROVED

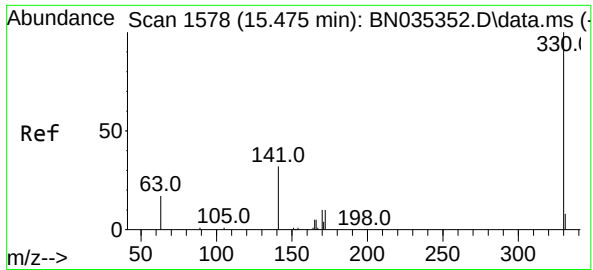
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

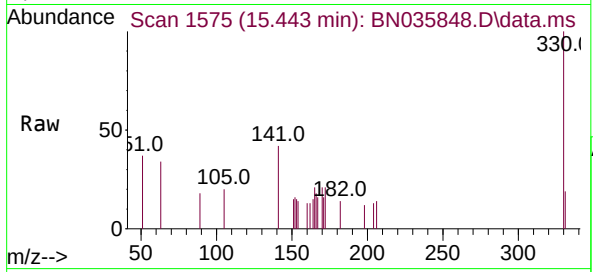
Tgt Ion:164 Resp: 5304
Ion Ratio Lower Upper
164 100
162 101.1 82.2 123.2
160 49.4 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.223 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

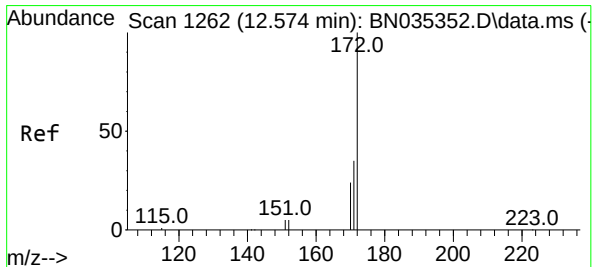
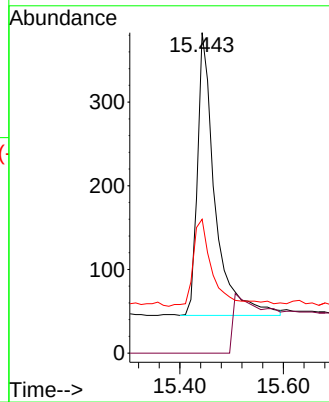
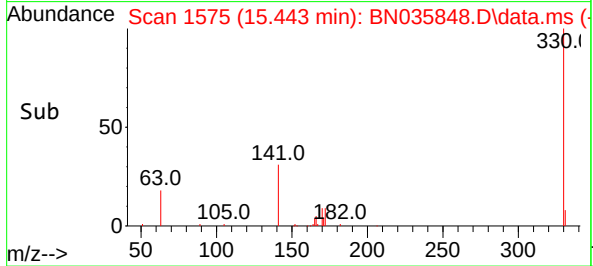
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion: 330 Resp: 838
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.1 26.6 40.0

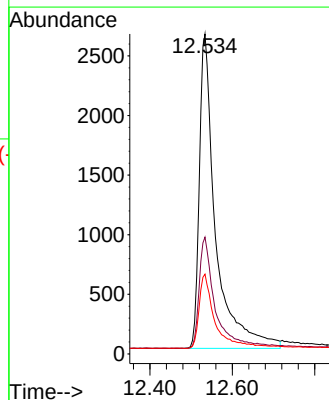
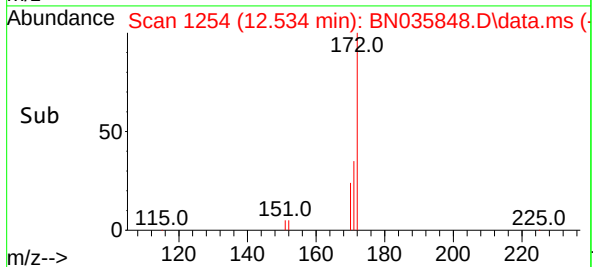
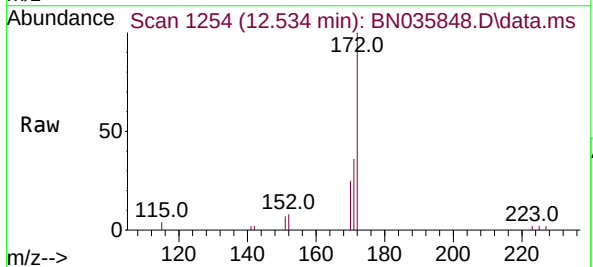
Manual Integrations
APPROVED

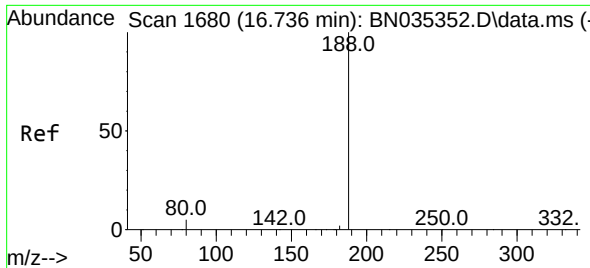
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

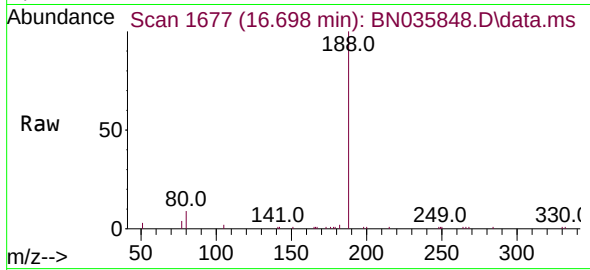
Tgt Ion: 172 Resp: 7269
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.9 19.8 29.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

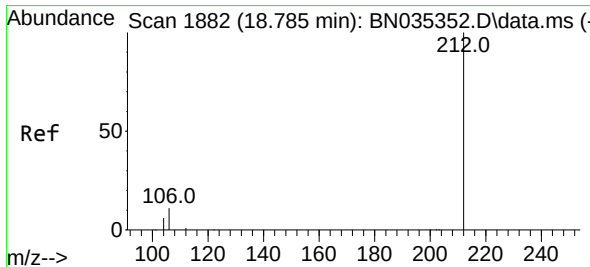
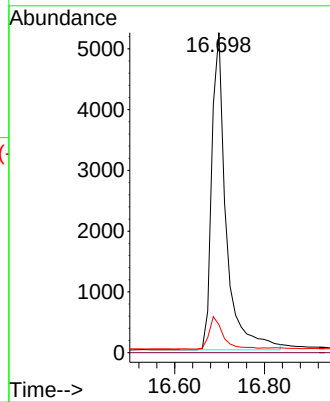
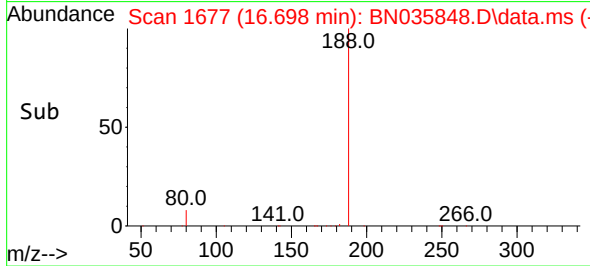
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion:188 Resp: 11548
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 4.6 6.8

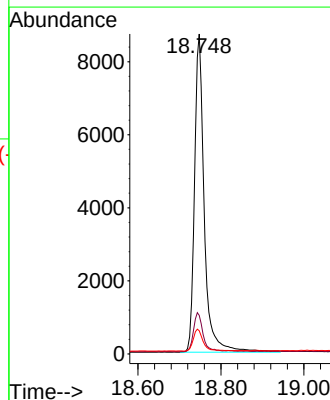
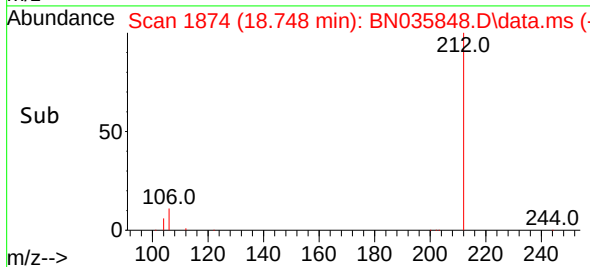
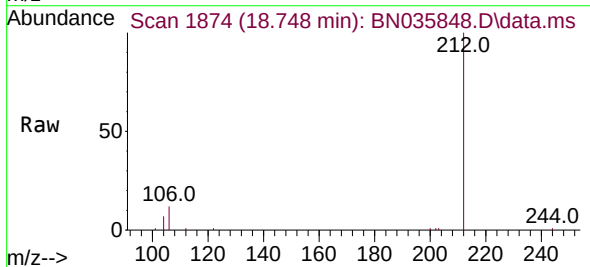
Manual Integrations
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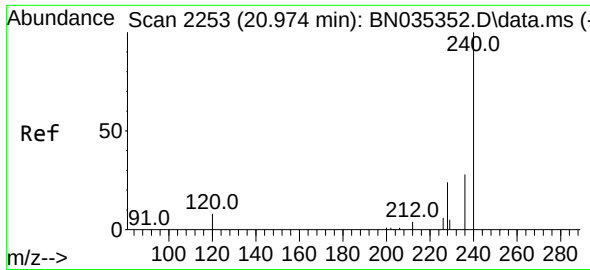
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:212 Resp: 14226
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 7.2 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035848.D

Acq: 26 Dec 2024 11:56

Instrument :

BNA_N

ClientSampleId :

TT188S1-20241219

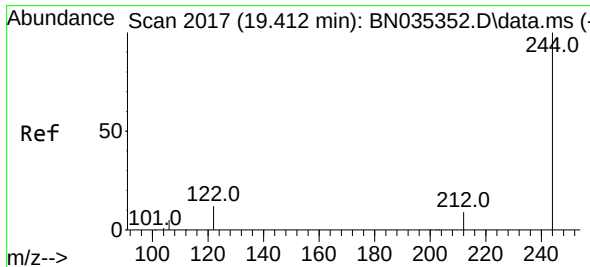
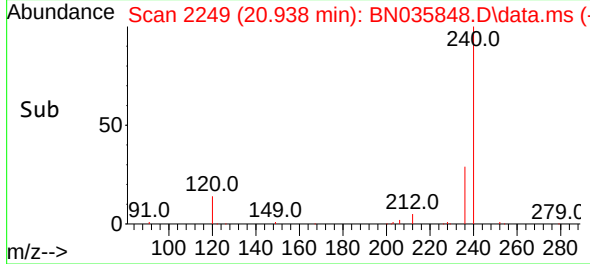
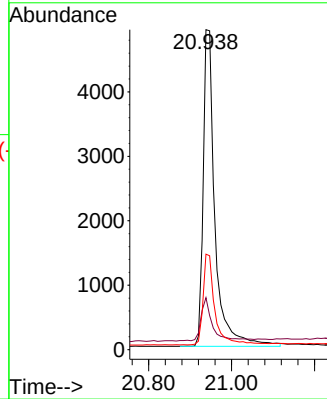
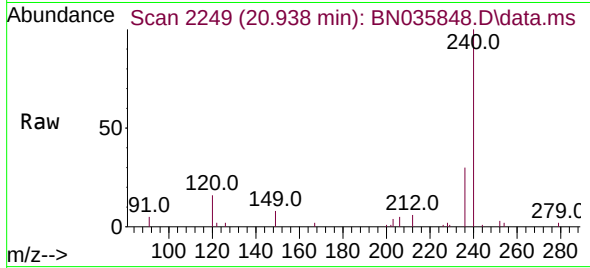
Tgt Ion:	240	Resp:	9719
Ion Ratio	Lower	Upper	
240	100		
120	16.2	7.9	11.9
236	29.8	22.9	34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#31

Terphenyl-d14

Concen: 0.567 ng

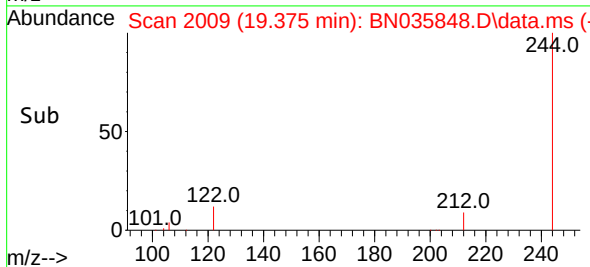
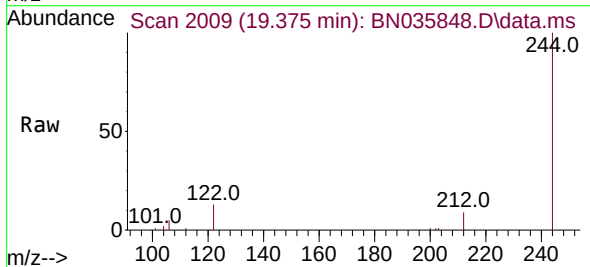
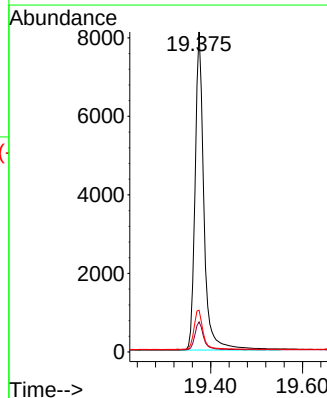
RT: 19.375 min Scan# 2009

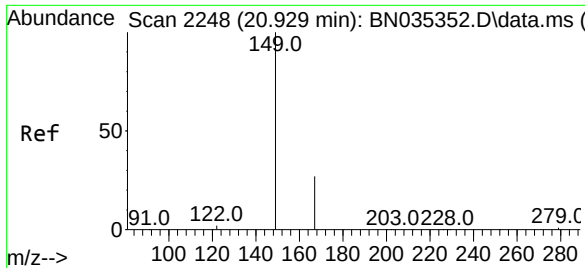
Delta R.T. -0.014 min

Lab File: BN035848.D

Acq: 26 Dec 2024 11:56

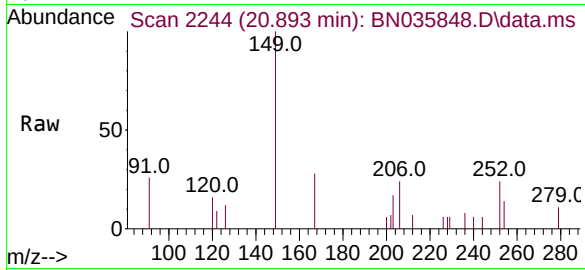
Tgt Ion:	244	Resp:	10878
Ion Ratio	Lower	Upper	
244	100		
212	9.4	8.1	12.1
122	13.1	10.3	15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 20.893 min Scan# 2188
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

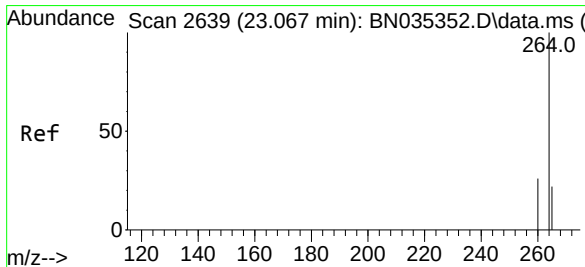
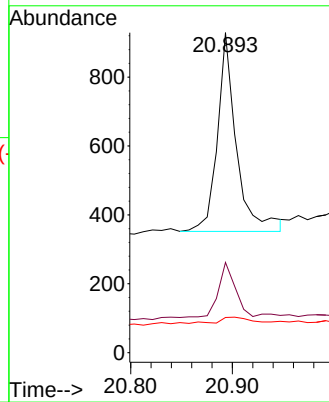
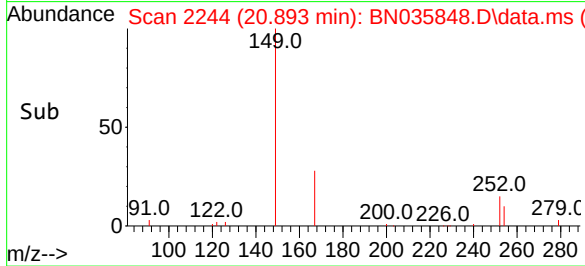
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion:149 Resp: 75
Ion Ratio Lower Upper
149 100
167 25.2 22.2 33.4
279 6.0 2.7 4.1

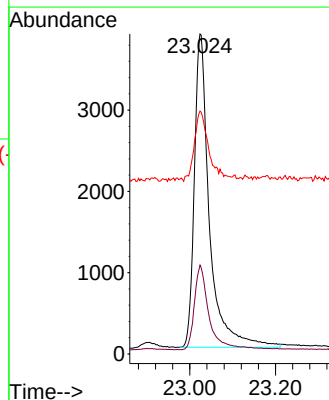
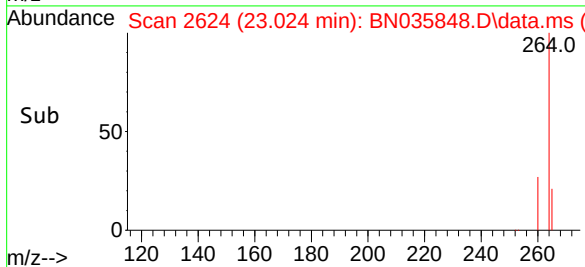
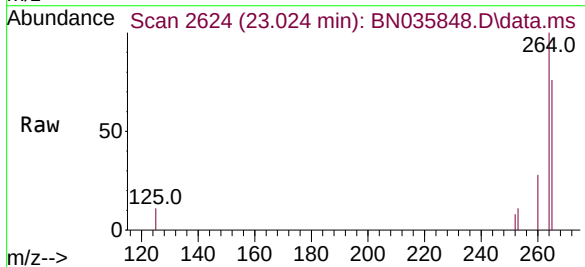
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:264 Resp: 9432
Ion Ratio Lower Upper
264 100
260 27.7 21.4 32.2
265 75.9 40.2 60.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	FB03-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-20	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
BN035837.D	1	12/23/24 13:29	12/25/24 01:40	PB165828

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	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2950	7.257				
1146-65-2	Naphthalene-d8	6790	10.009				
15067-26-2	Acenaphthene-d10	4280	13.924				
1517-22-2	Phenanthrene-d10	8230	16.698				
1719-03-5	Chrysene-d12	6630	20.947				
1520-96-3	Perylene-d12	5860	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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

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

Quant Time: Dec 25 02:35:36 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	2951	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6785	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4279	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8231	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6628	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	5858	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	738	0.100	ng	-0.01
5) Phenol-d6	6.492	99	341	0.038	ng	0.00
8) Nitrobenzene-d5	8.408	82	1708m	0.412	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	3847	0.362	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	557	0.183	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6166	0.381	ng	0.00
27) Fluoranthene-d10	18.752	212	9755	0.418	ng	0.00
31) Terphenyl-d14	19.379	244	7505	0.574	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	1349	0.147	ng	# 100

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

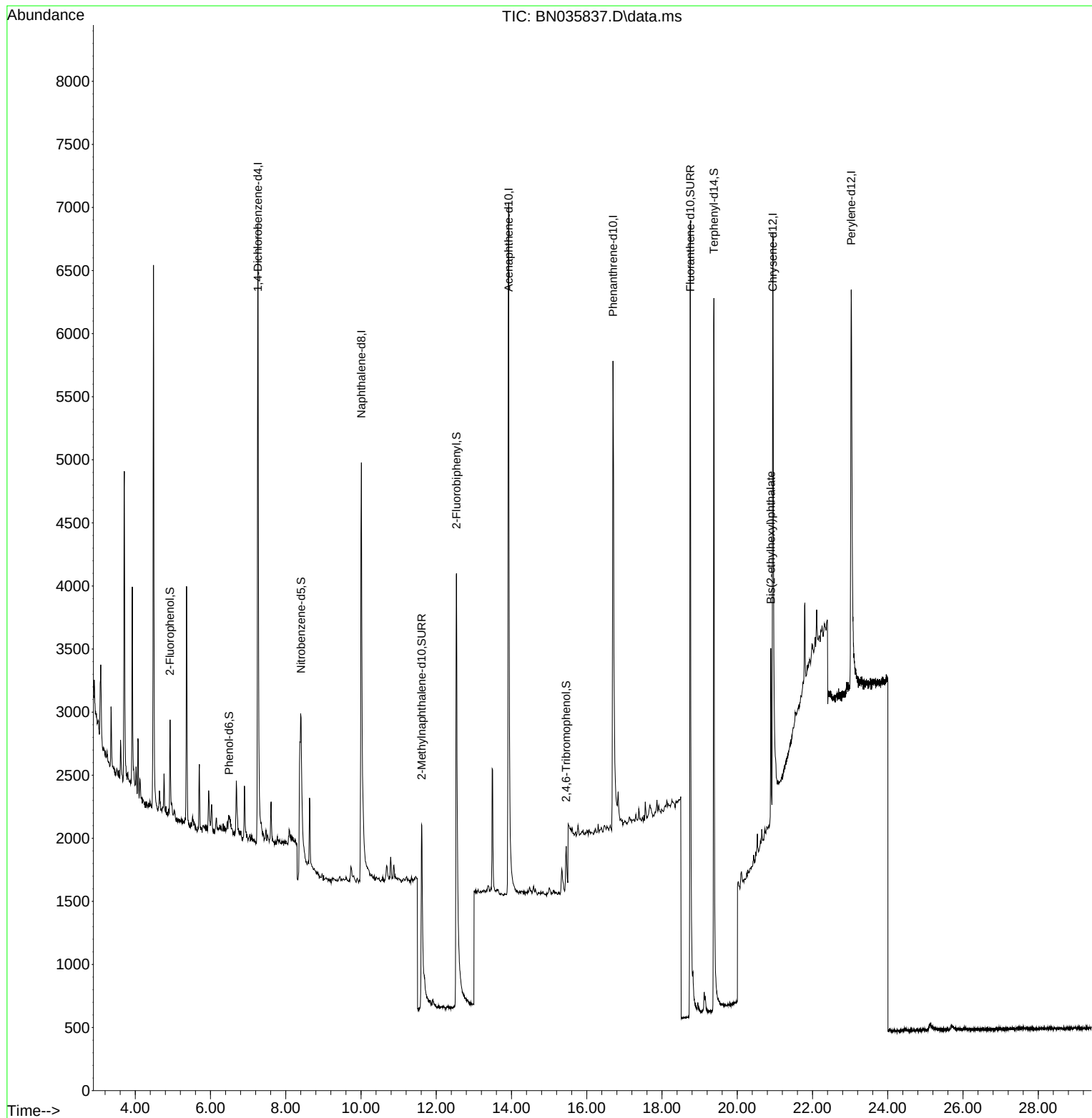
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

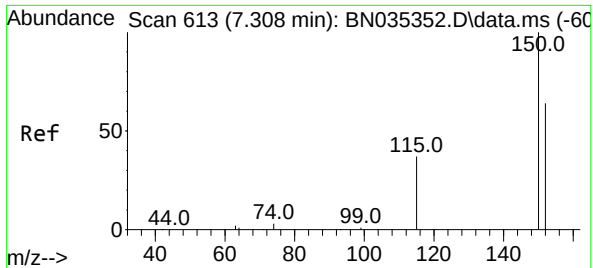
Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

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

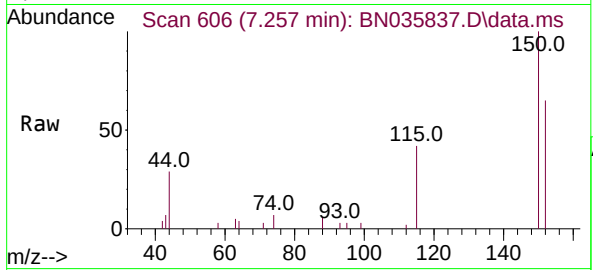
Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 606
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

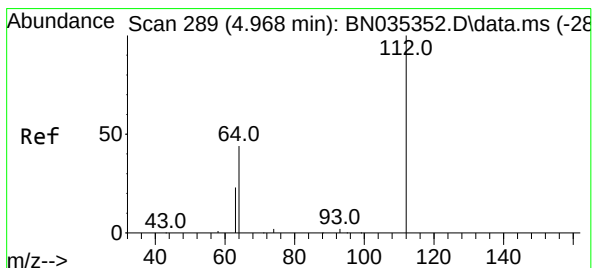
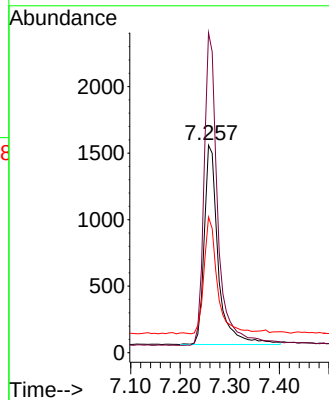
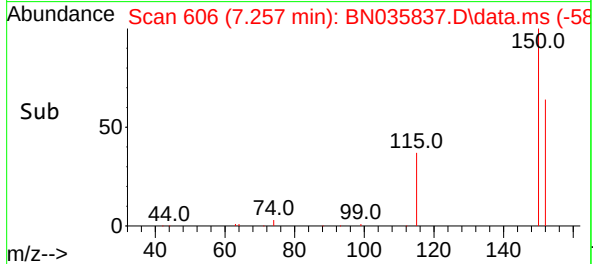
Instrument :
BNA_N
ClientSampleId :
FB03-20241219



Tgt Ion:152 Resp: 295
Ion Ratio Lower Upper
152 100
150 154.2 124.0 186.0
115 65.4 49.6 74.4

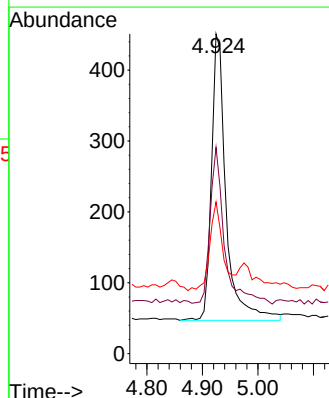
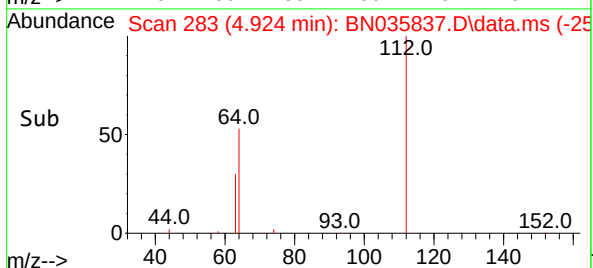
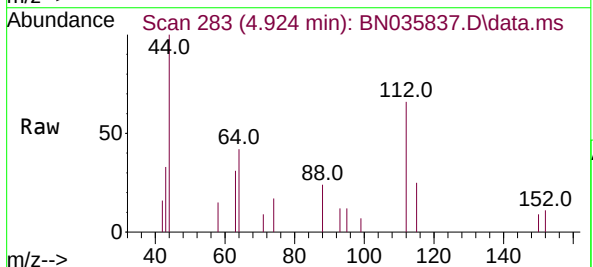
Manual Integrations
APPROVED

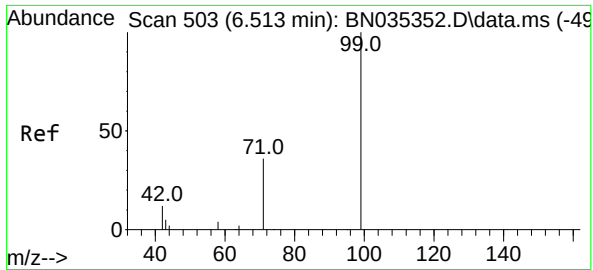
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

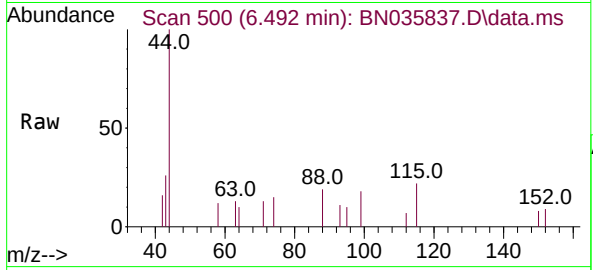
Tgt Ion:112 Resp: 738
Ion Ratio Lower Upper
112 100
64 53.7 39.8 59.8
63 27.2 21.0 31.6





#5
Phenol-d6
Concen: 0.038 ng
RT: 6.492 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

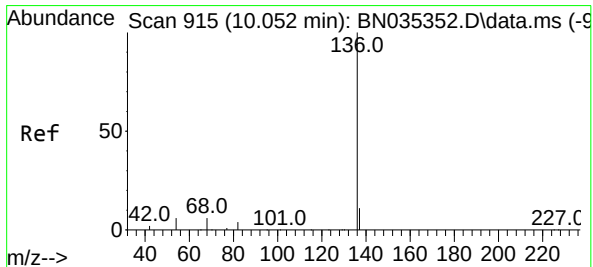
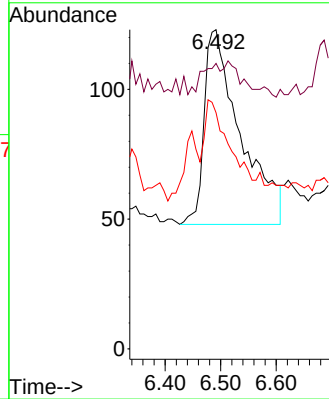
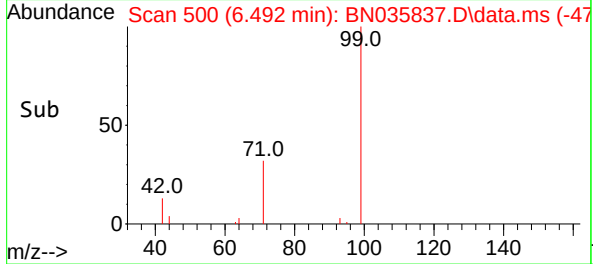
Instrument :
BNA_N
ClientSampleId :
FB03-20241219



Tgt Ion: 99 Resp: 34
Ion Ratio Lower Upper
99 100
42 6.7 11.4 17.2
71 30.5 29.3 43.9

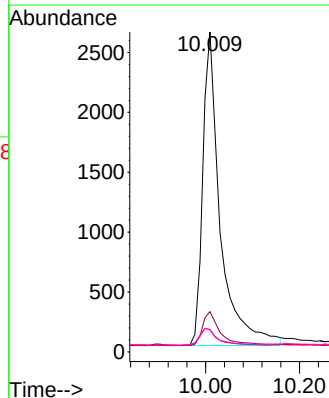
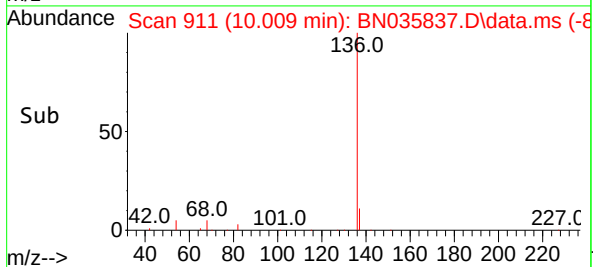
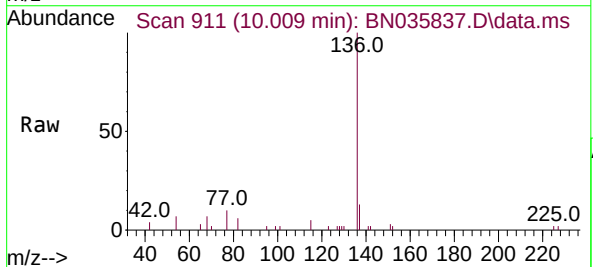
Manual Integrations
APPROVED

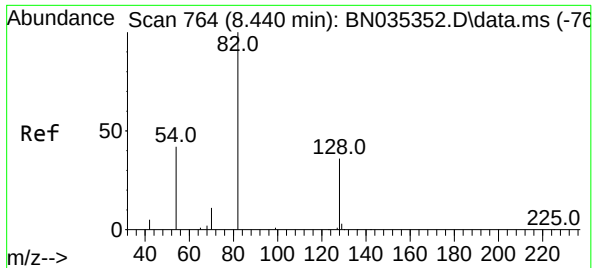
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

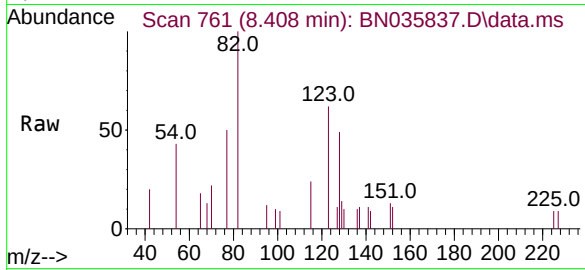
Tgt Ion:136 Resp: 6785
Ion Ratio Lower Upper
136 100
137 12.6 10.2 15.2
54 6.9 6.1 9.1
68 7.1 6.4 9.6





#8
Nitrobenzene-d5
Concen: 0.412 ng m
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

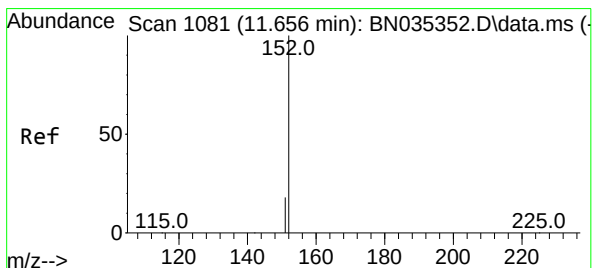
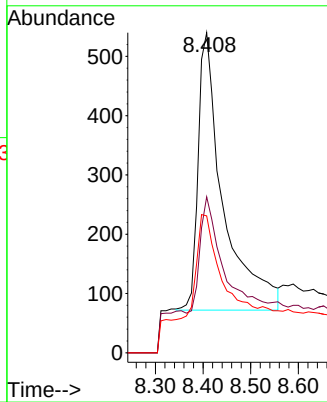
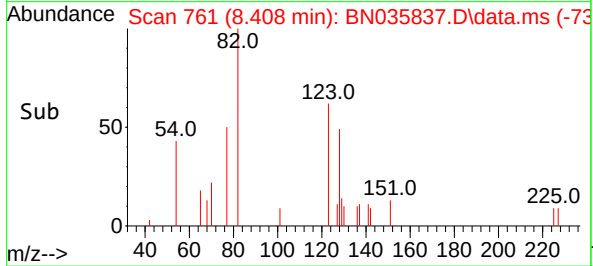
Instrument :
BNA_N
ClientSampleId :
FB03-20241219



Tgt Ion: 82 Resp: 1708
Ion Ratio Lower Upper
82 100
128 48.7 33.4 50.0
54 42.8 36.7 55.1

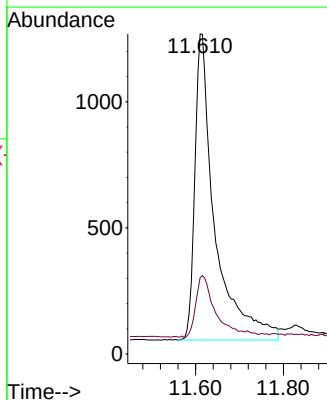
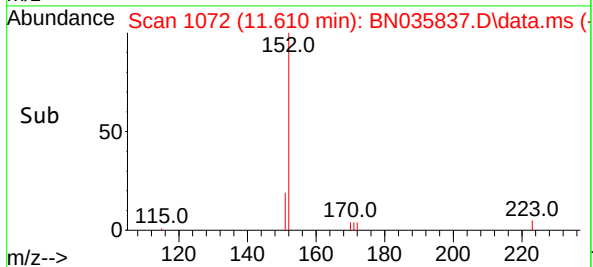
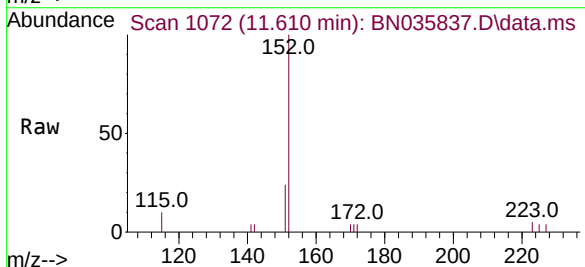
Manual Integrations
APPROVED

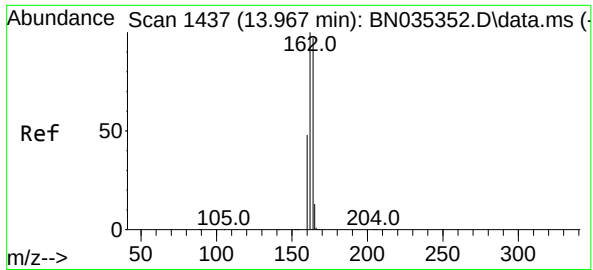
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

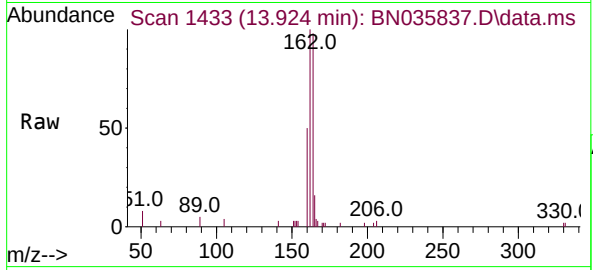
Tgt Ion:152 Resp: 3847
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

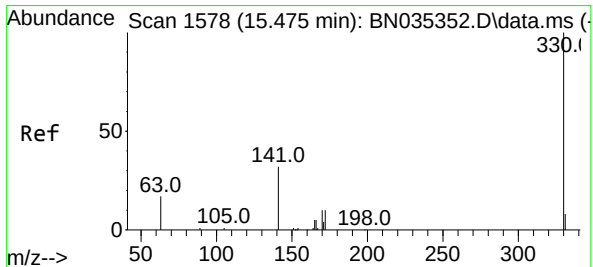
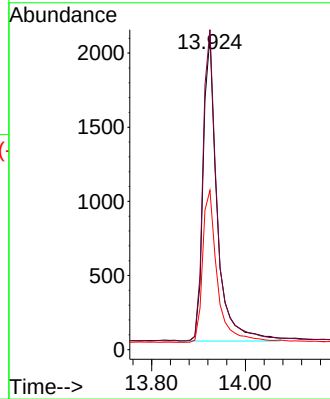
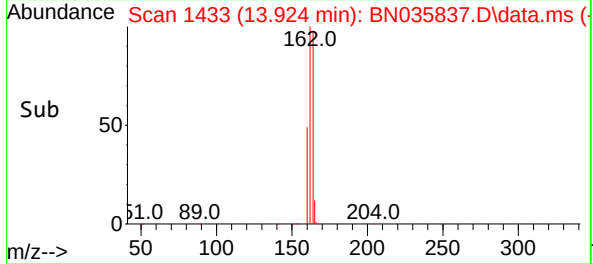
Instrument :
BNA_N
ClientSampleId :
FB03-20241219



Tgt Ion:164 Resp: 4279
Ion Ratio Lower Upper
164 100
162 102.1 82.2 123.2
160 50.9 40.1 60.1

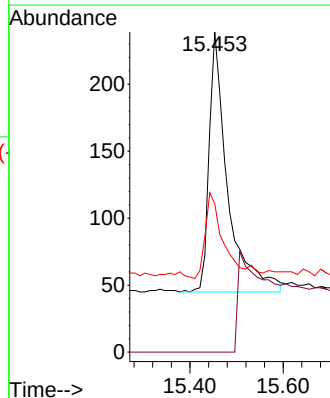
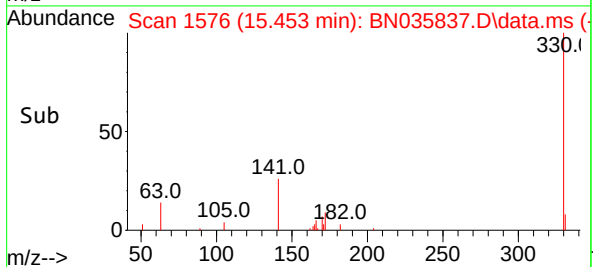
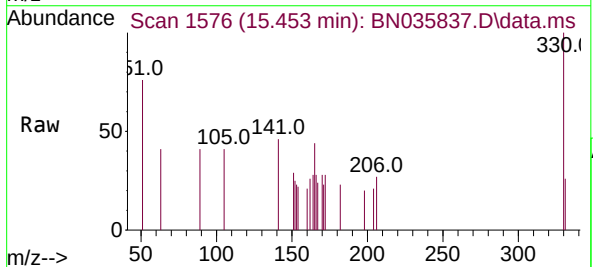
Manual Integrations
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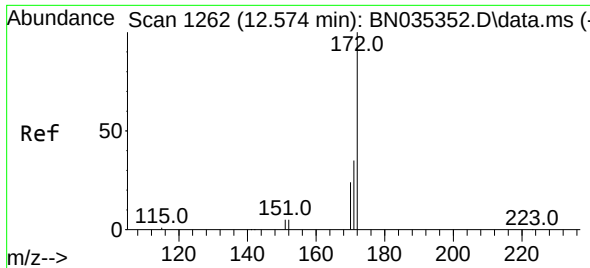
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

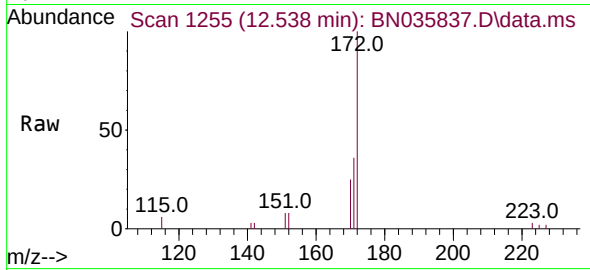
Tgt Ion:330 Resp: 557
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.9 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.538 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

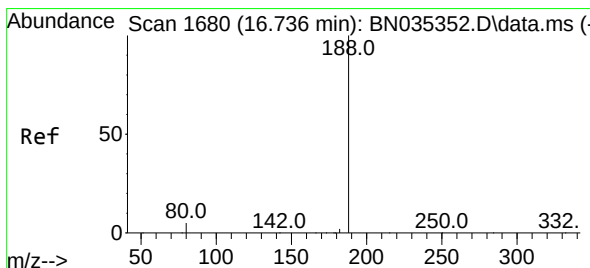
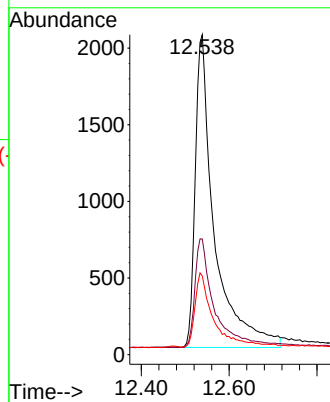
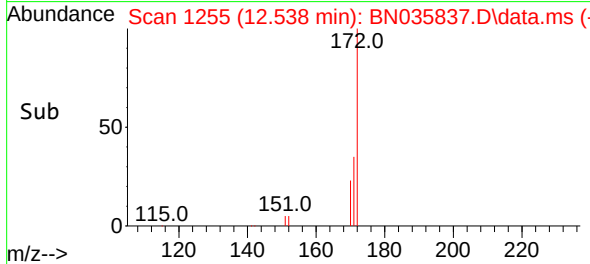
Instrument :
BNA_N
ClientSampleId :
FB03-20241219



Tgt Ion:172 Resp: 6160
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.6 19.8 29.8

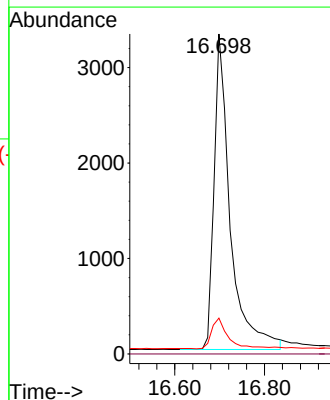
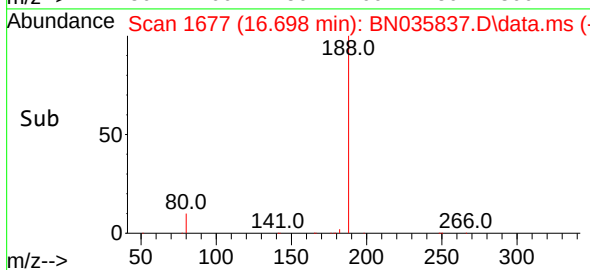
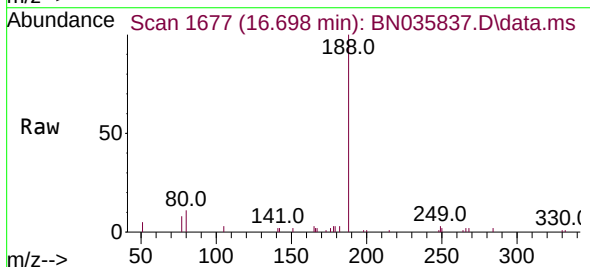
Manual Integrations
APPROVED

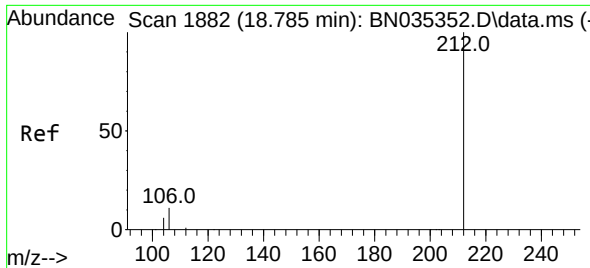
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

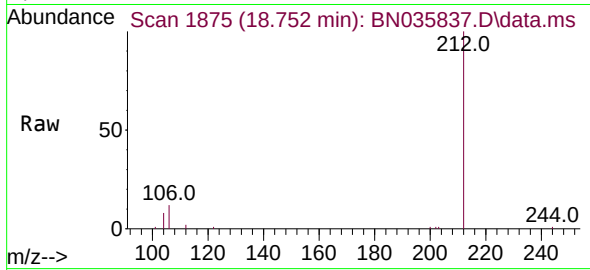
Tgt Ion:188 Resp: 8231
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.2 4.6 6.8





#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

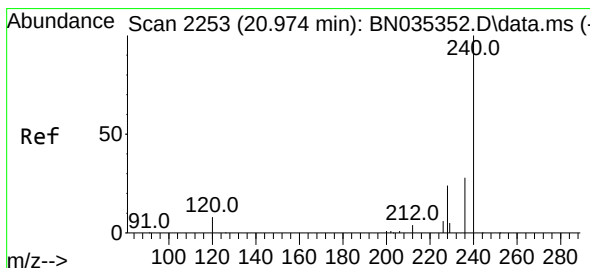
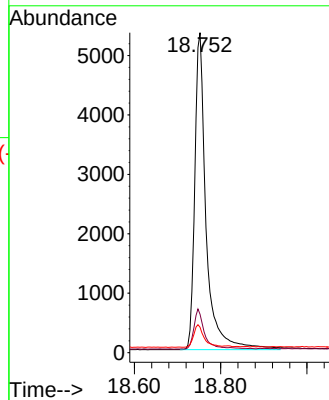
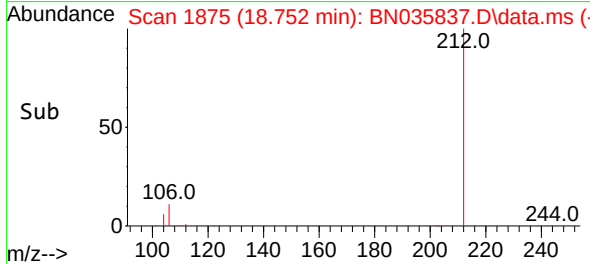
Instrument :
BNA_N
ClientSampleId :
FB03-20241219



Tgt Ion:212 Resp: 975
Ion Ratio Lower Upper
212 100
106 12.2 9.2 13.8
104 6.6 5.3 7.9

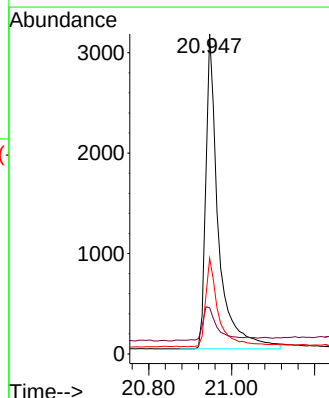
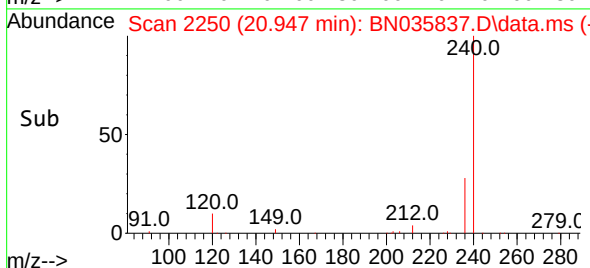
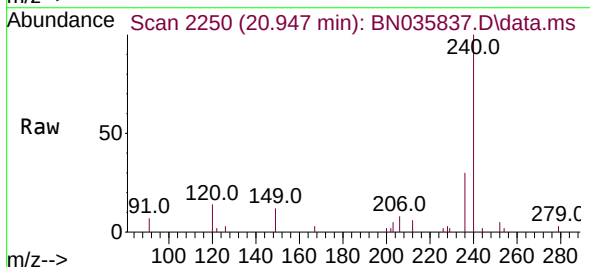
Manual Integrations
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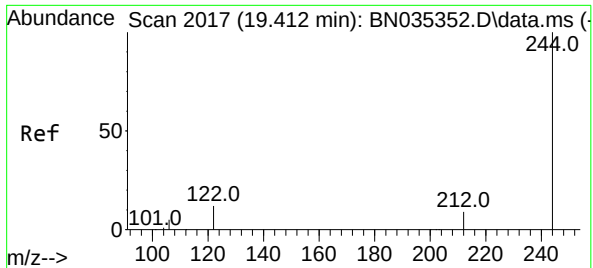
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:240 Resp: 6628
Ion Ratio Lower Upper
240 100
120 14.4 7.9 11.9#
236 29.9 22.9 34.3





#31
Terphenyl-d14
Concen: 0.574 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :

BNA_N

ClientSampleId :

FB03-20241219

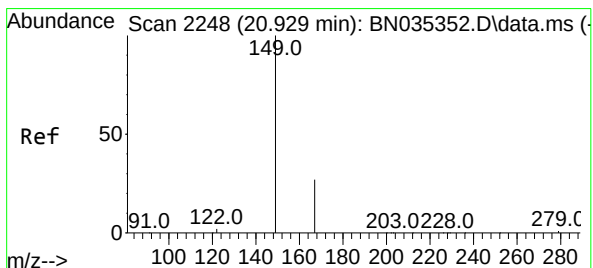
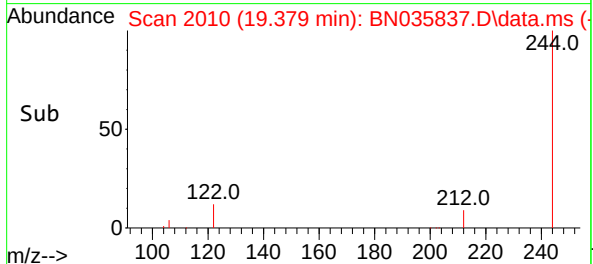
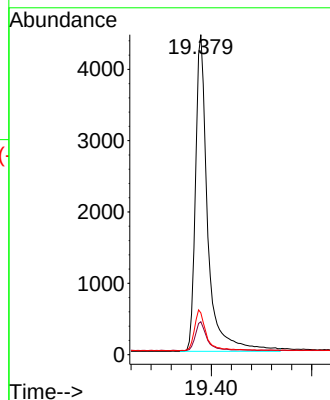
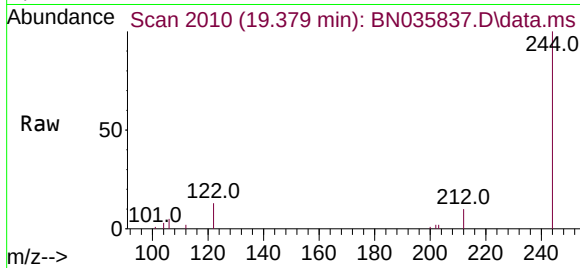
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	13.1	10.3	15.5

Manual Integrations

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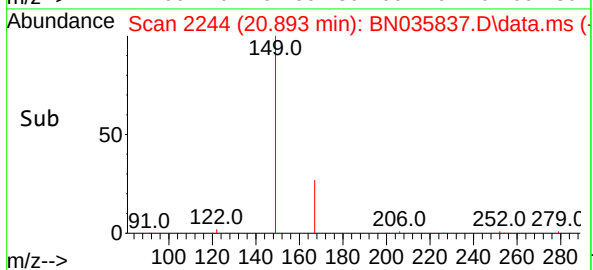
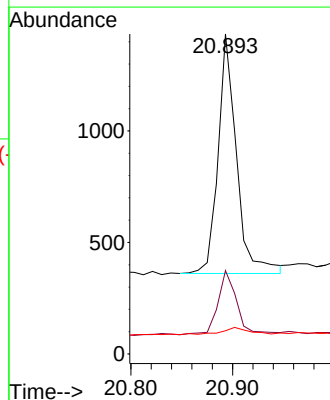
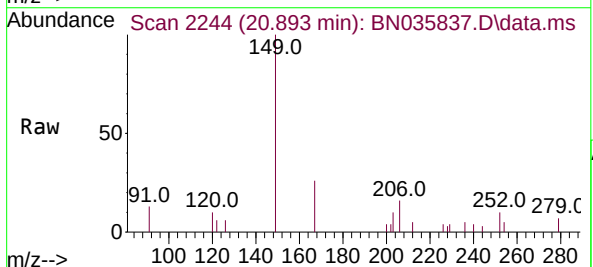
Reviewed By :Yogesh Patel 12/26/2024

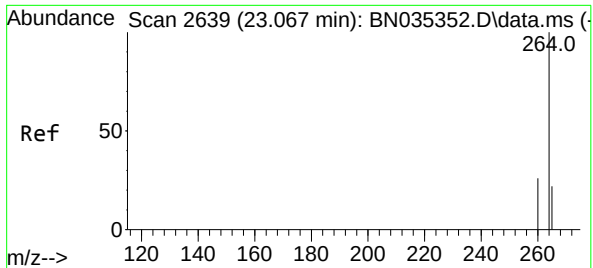
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.147 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	4.4	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.029 min Scan# 20

Delta R.T. -0.012 min

Lab File: BN035837.D

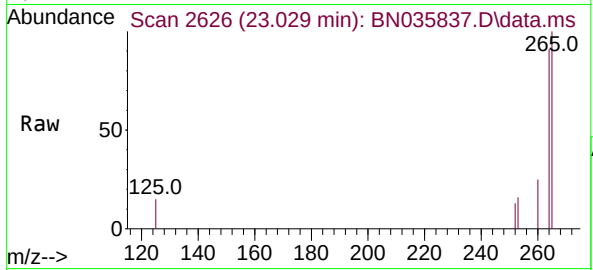
Acq: 25 Dec 2024 01:40

Instrument :

BNA_N

ClientSampleId :

FB03-20241219



Tgt Ion:264 Resp: 585

Ion Ratio Lower Upper

264 100

260 27.9 21.4 32.2

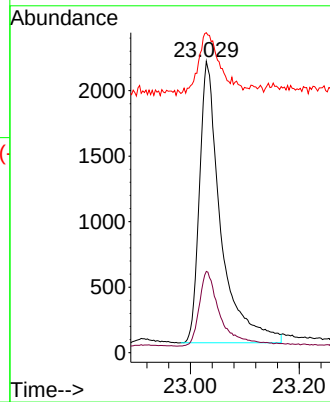
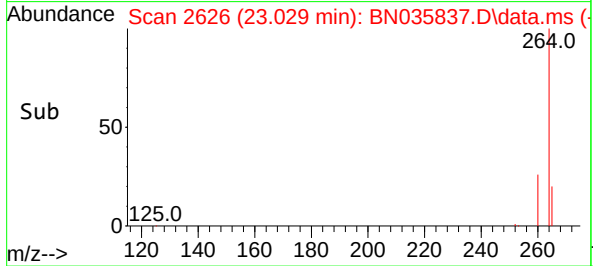
265 109.9 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024





CALIBRATION SUMMARY

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) SURR2	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

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

Manual Integrations
 APPROVED

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

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	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

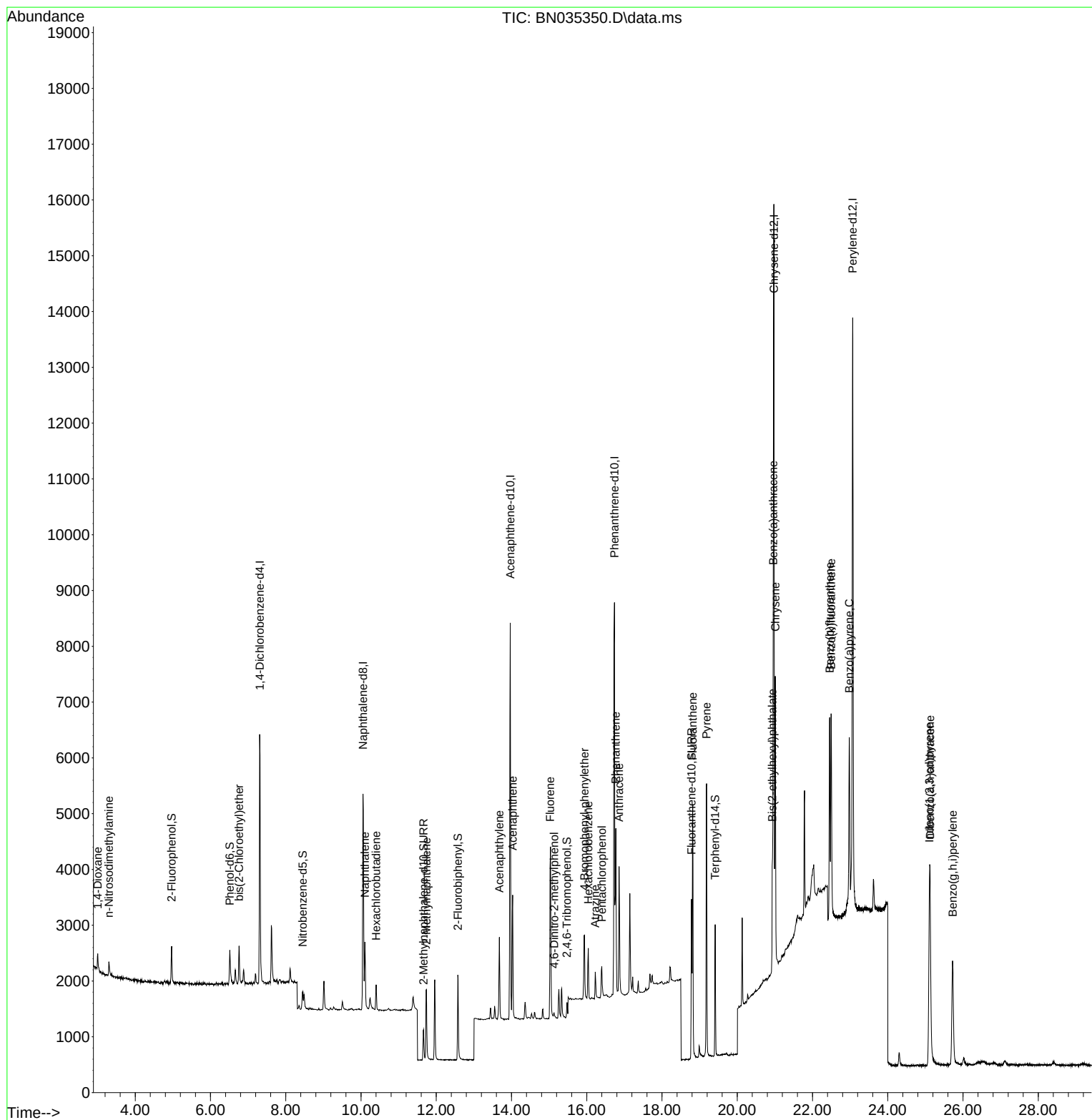
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 Data File : BN035350.D
 Acq On : 27 Nov 2024 15:34
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

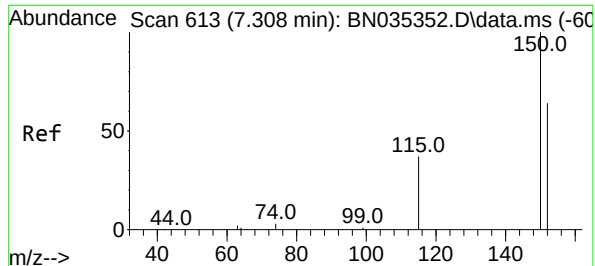
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations APPROVED

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

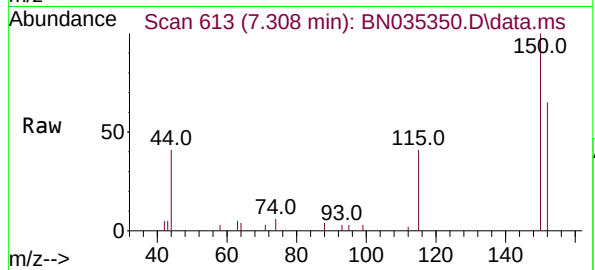
Quant Time: Nov 27 22:52:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration





#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

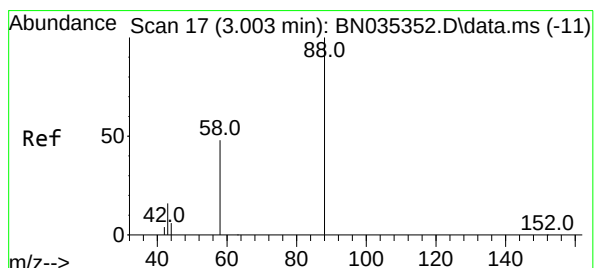
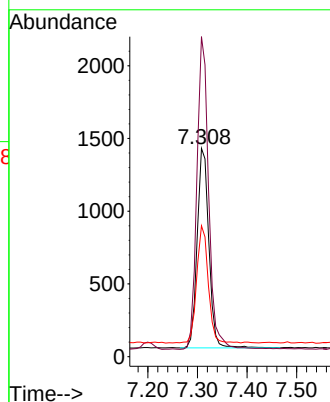
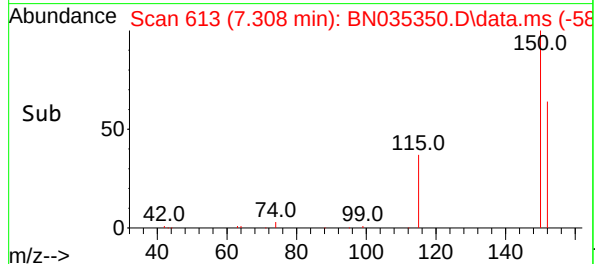
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 223
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4

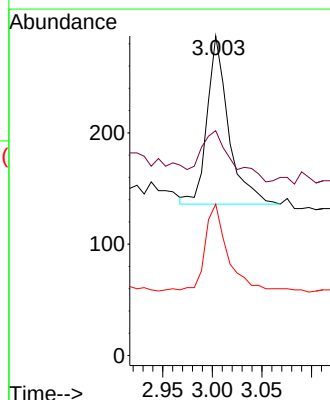
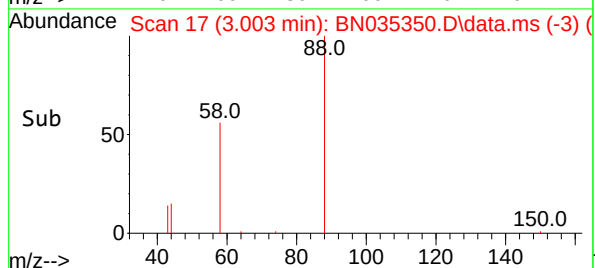
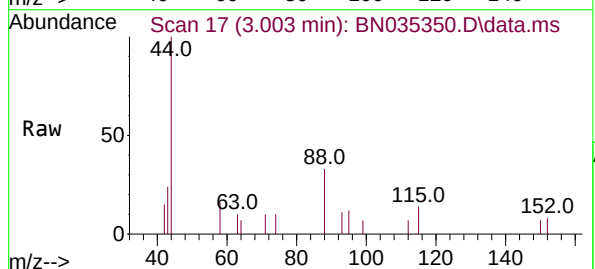
Manual Integrations
APPROVED

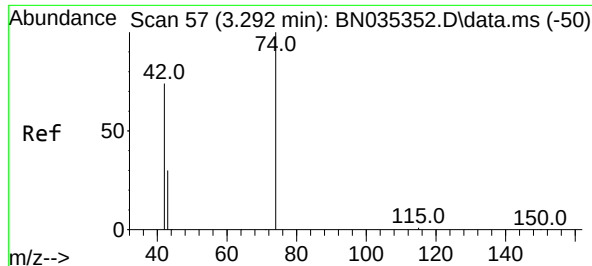
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 50

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

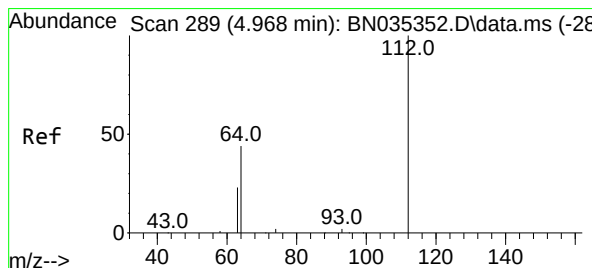
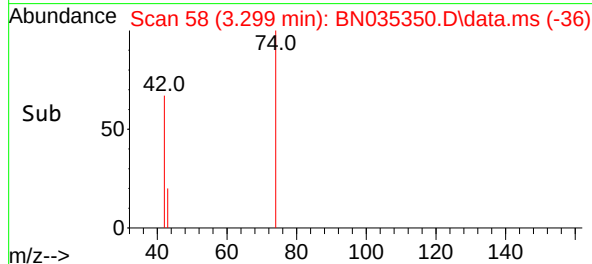
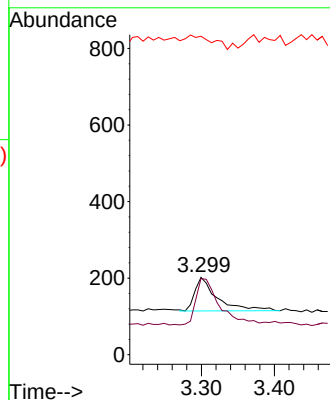
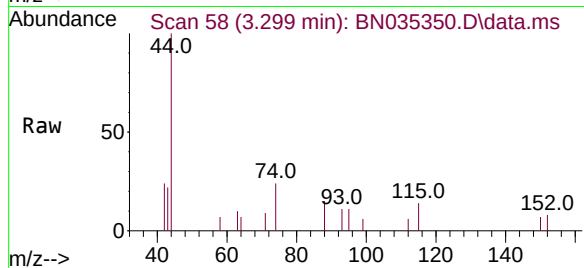
44 51.9 2.2 3.4

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

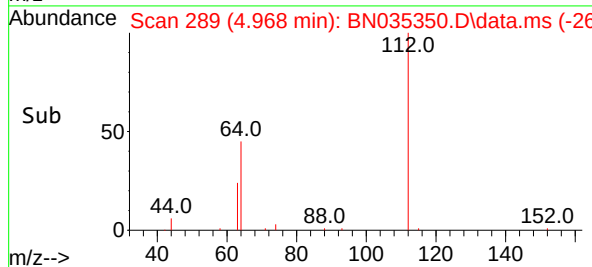
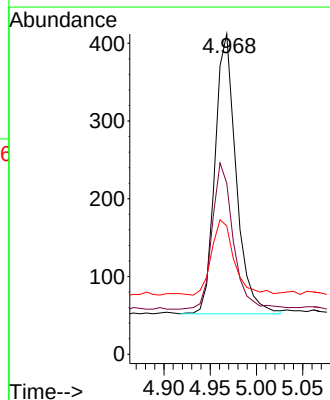
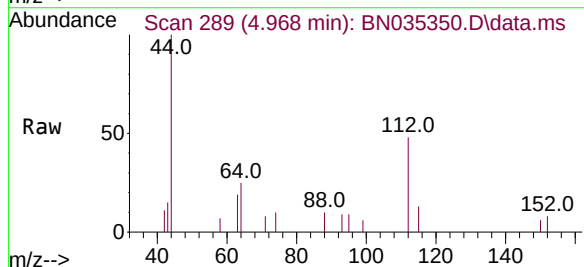
Tgt Ion:112 Resp: 573

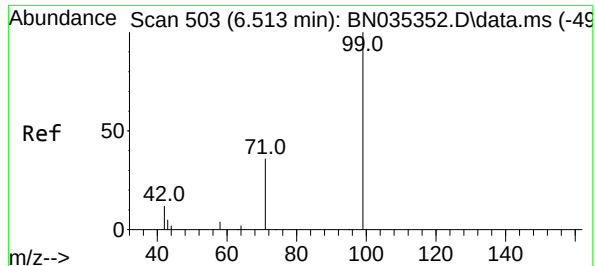
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6





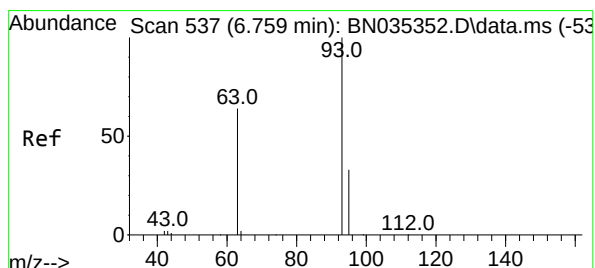
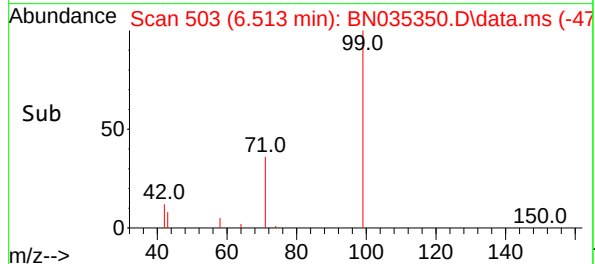
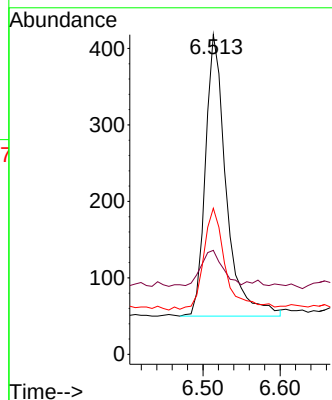
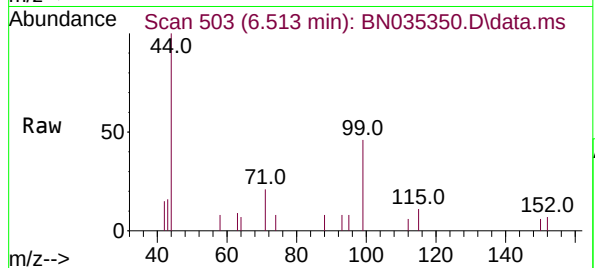
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 680
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9

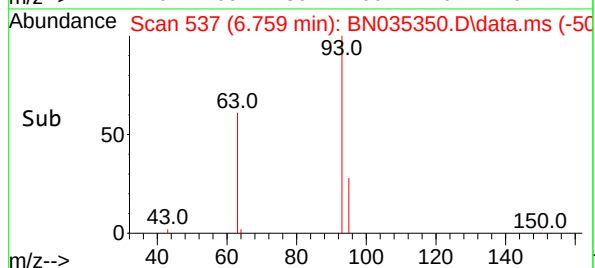
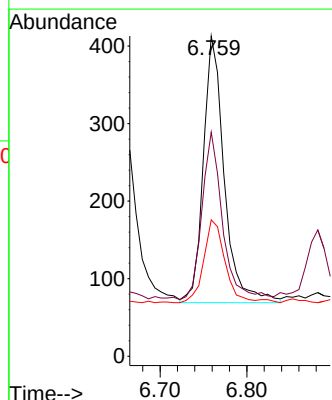
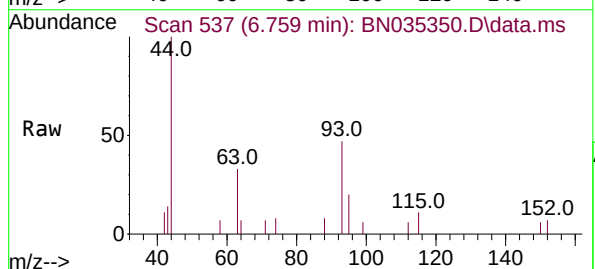
Manual Integrations
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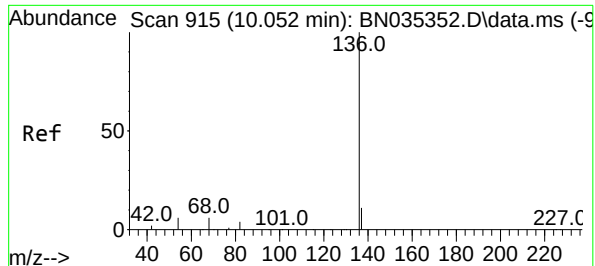
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

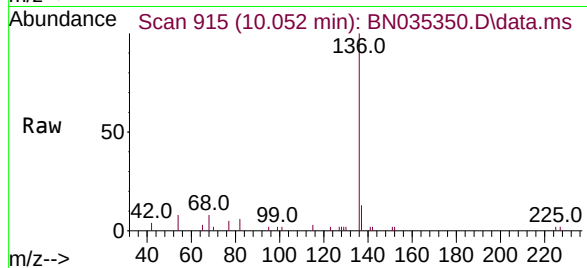
Tgt Ion: 93 Resp: 579
Ion Ratio Lower Upper
93 100
63 61.7 50.4 75.6
95 31.3 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

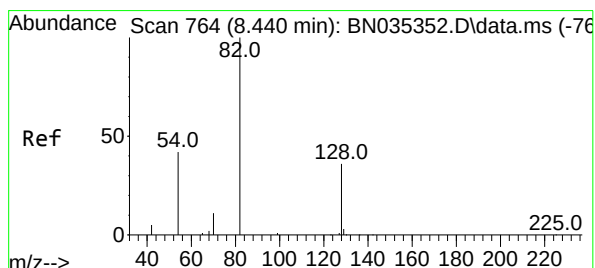
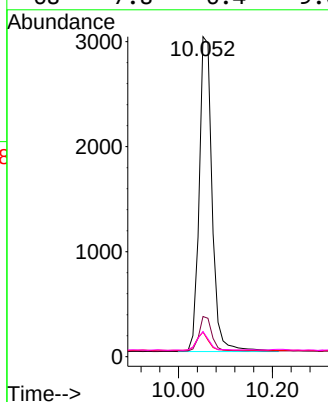
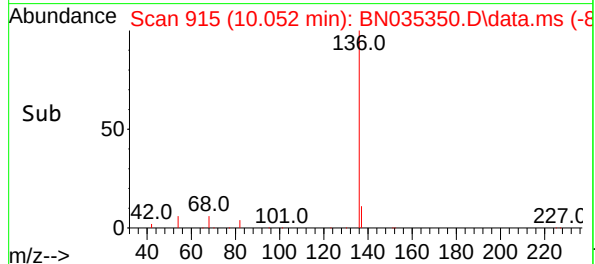
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt 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

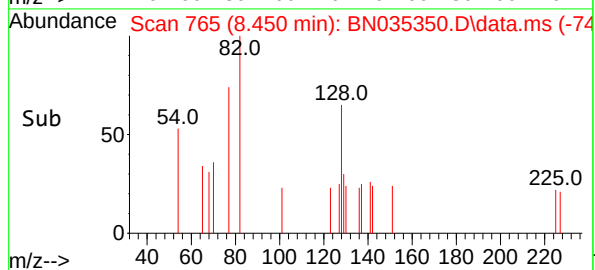
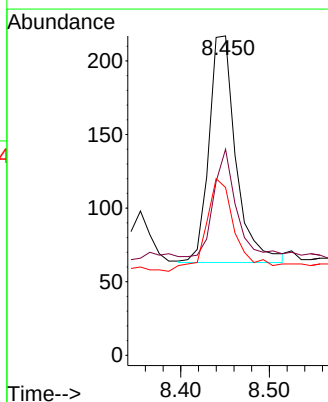
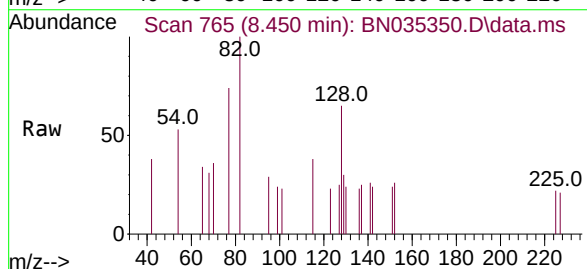
Manual Integrations
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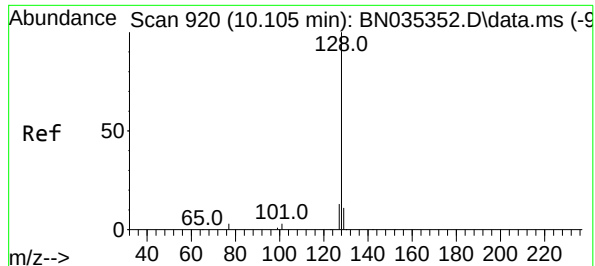
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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





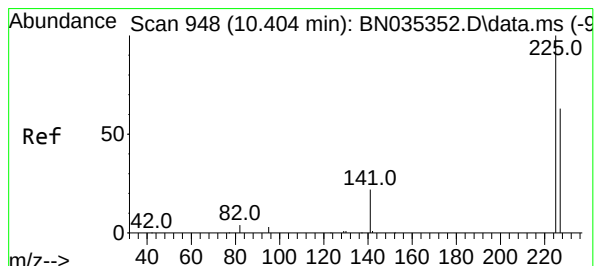
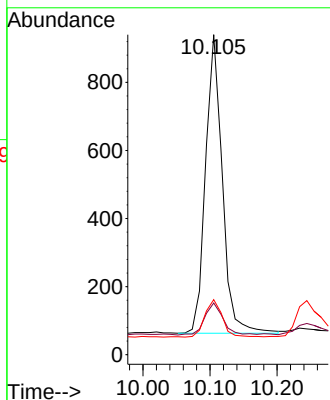
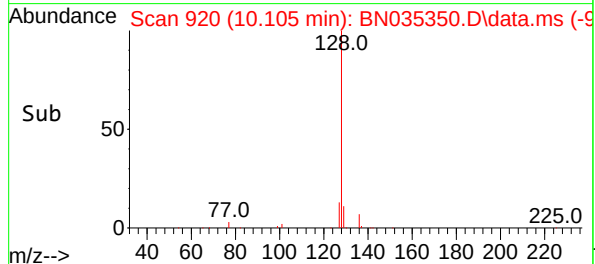
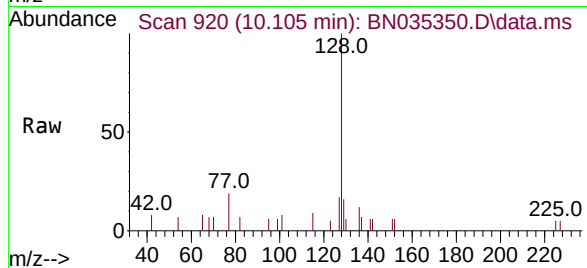
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 152
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6
127 17.2 11.4 17.2

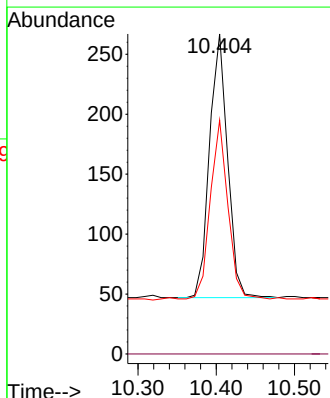
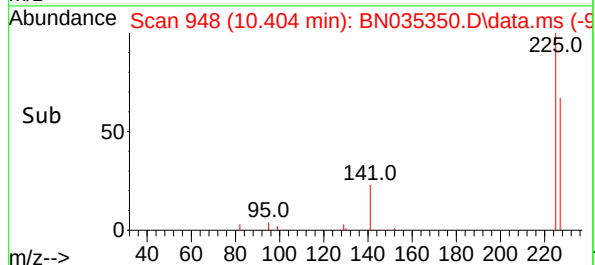
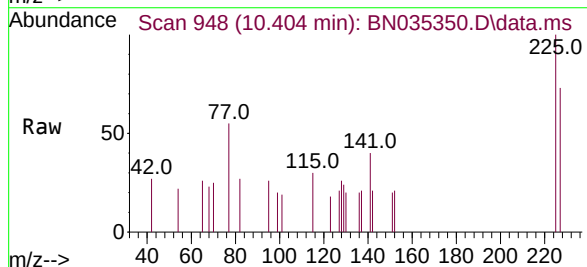
Manual Integrations
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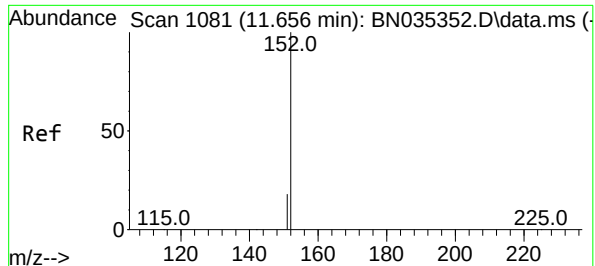
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

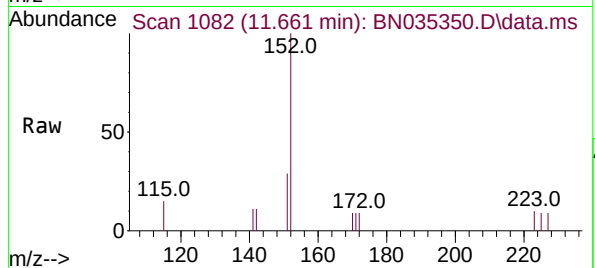
Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

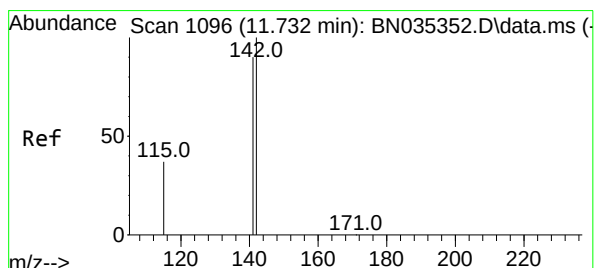
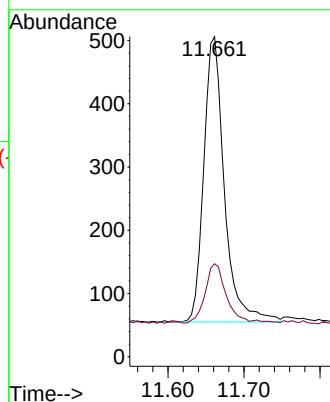
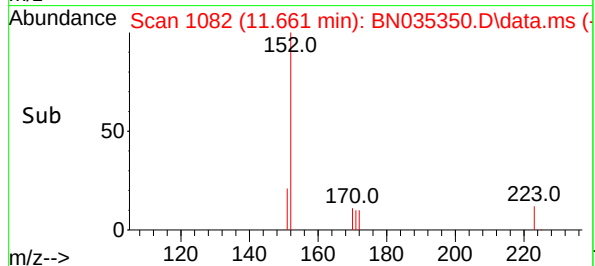
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

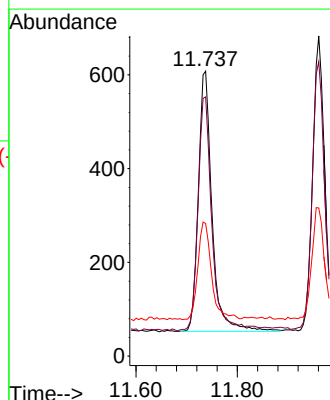
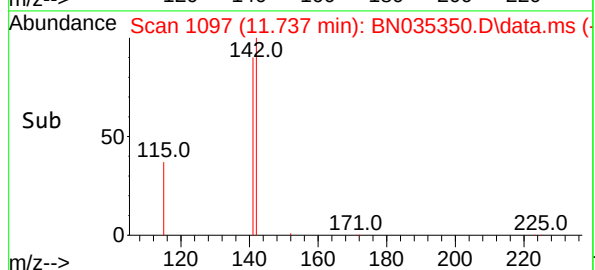
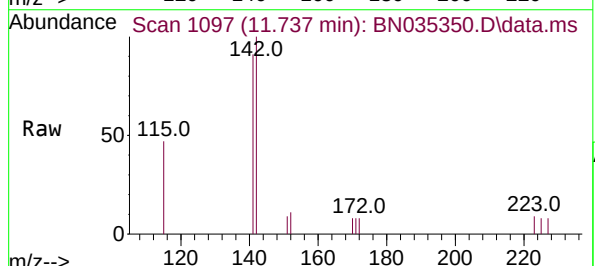
Manual Integrations
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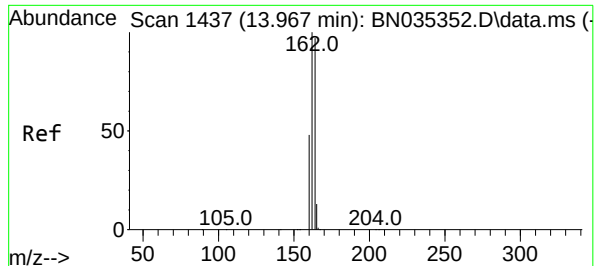
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

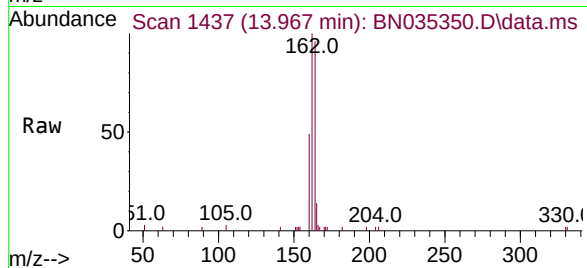
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

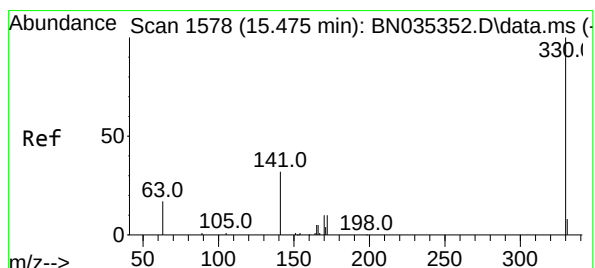
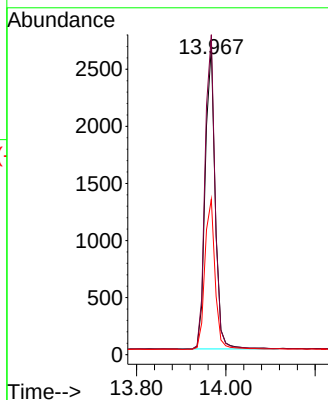
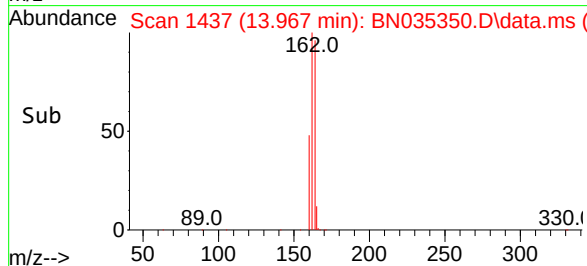
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



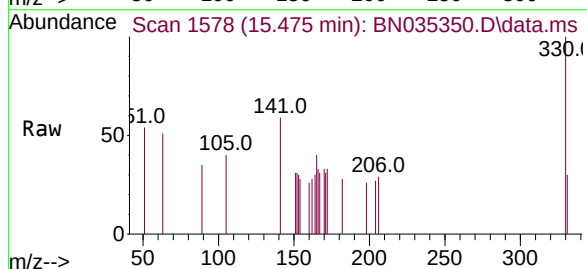
Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1

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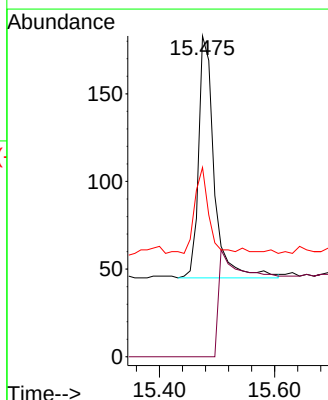
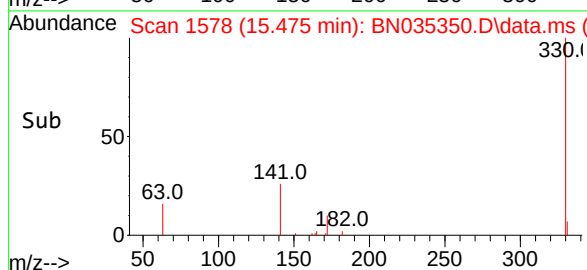
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

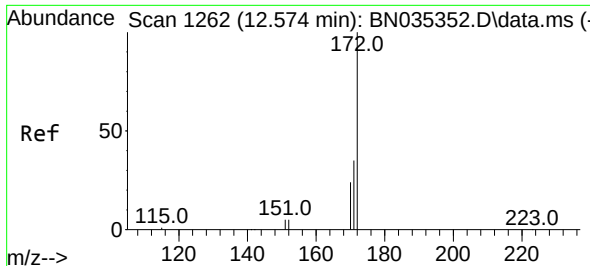


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



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# 1262

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

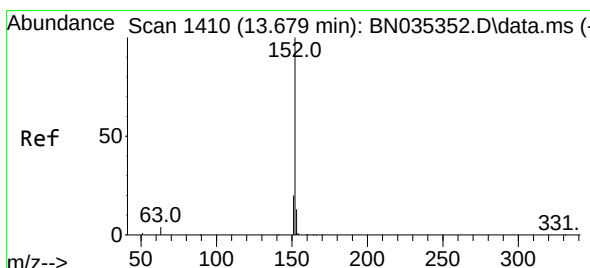
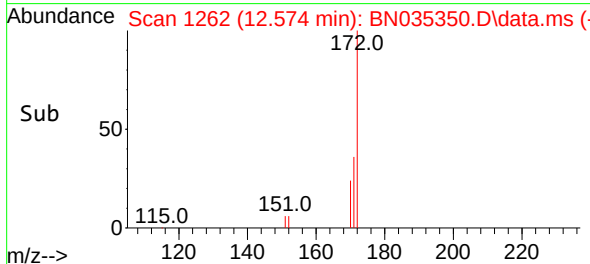
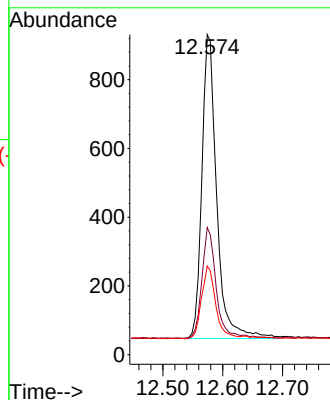
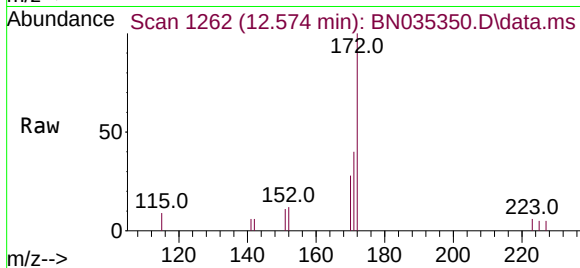
Tgt Ion:	172	Resp:	1518
Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.096 ng

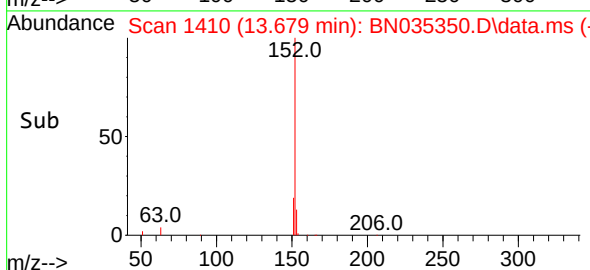
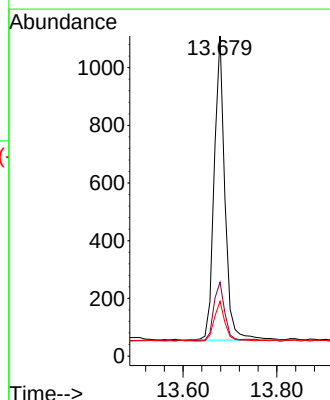
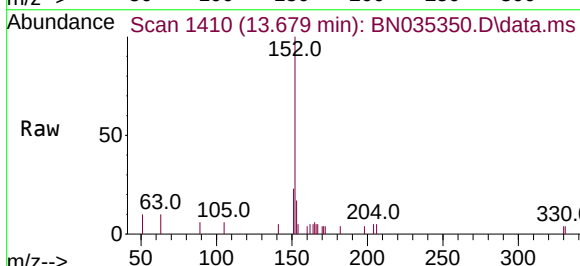
RT: 13.679 min Scan# 1410

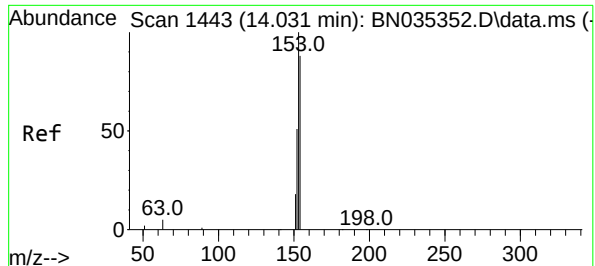
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

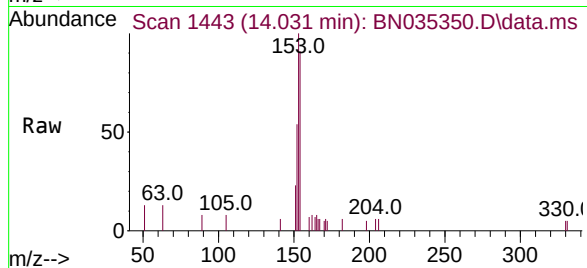
Tgt Ion:	152	Resp:	1675
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6





#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

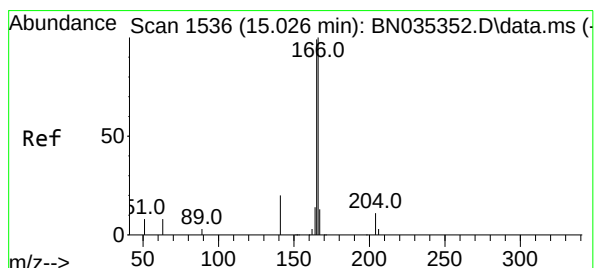
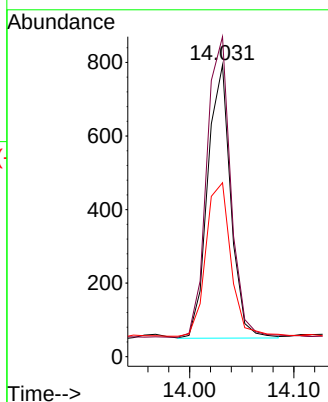
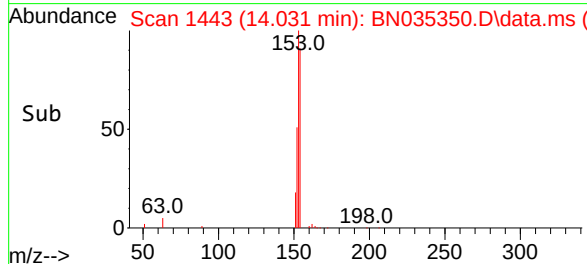
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



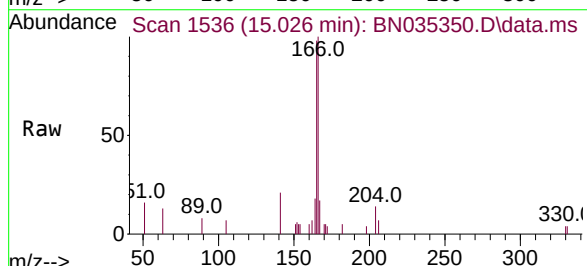
Tgt Ion:154 Resp: 114.0
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6

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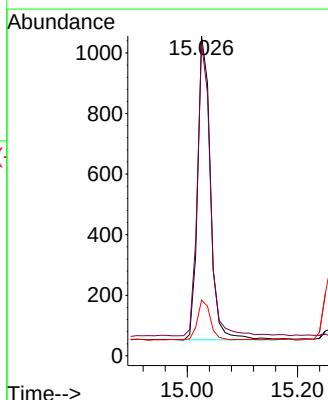
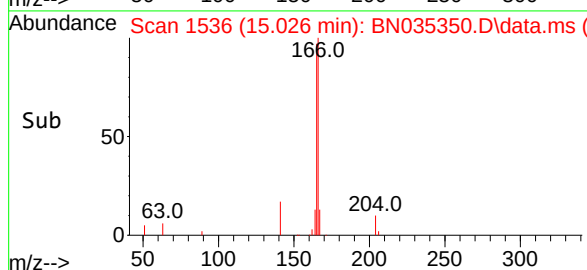
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

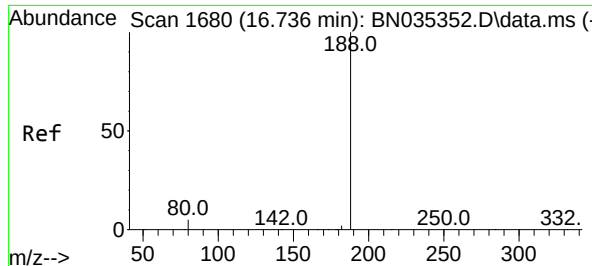


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



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

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

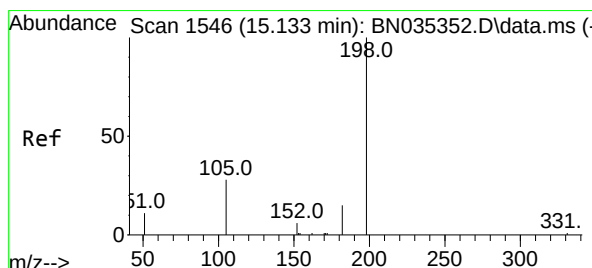
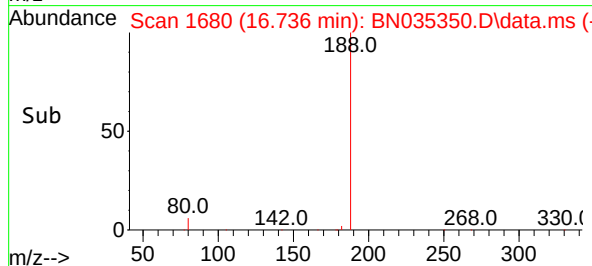
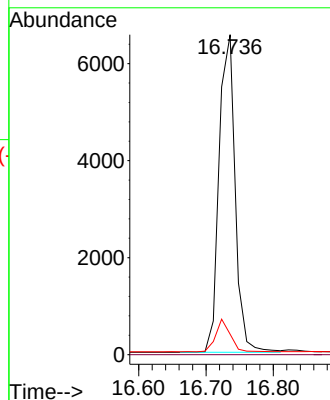
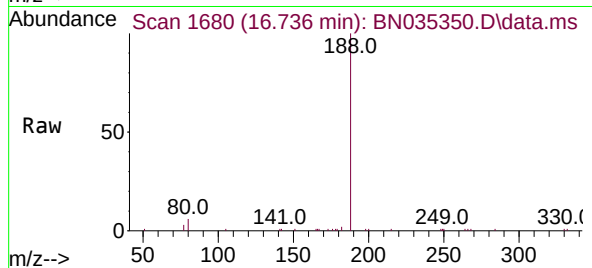
Tgt Ion:188	Resp:	1085
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.4	6.8

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

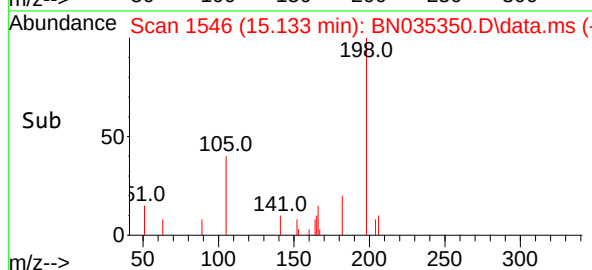
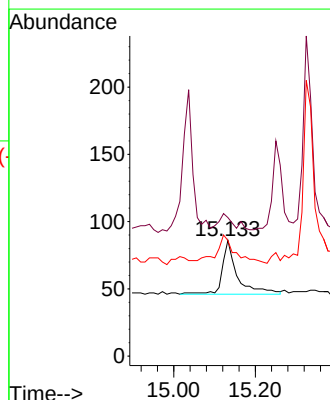
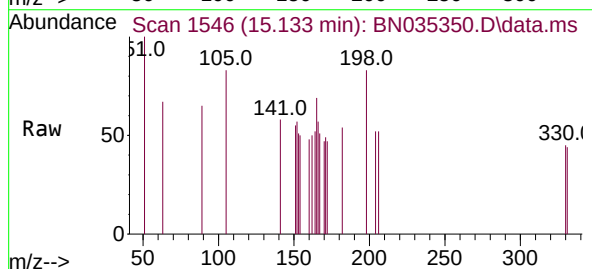
RT: 15.133 min Scan# 1546

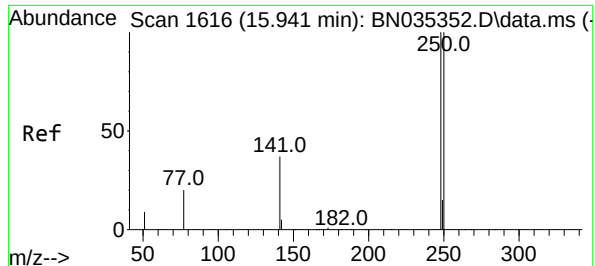
Delta R.T. 0.000 min

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
105	100.0	45.3





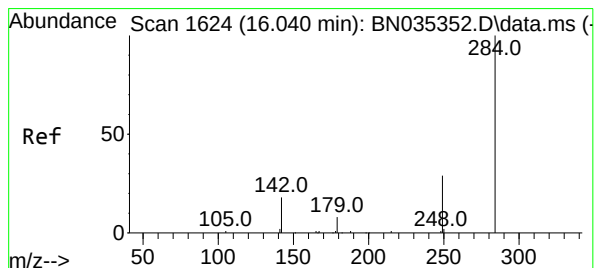
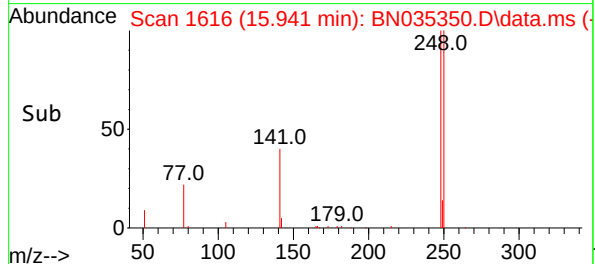
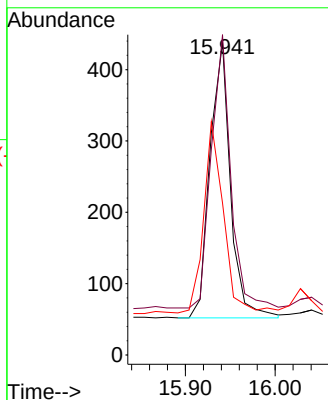
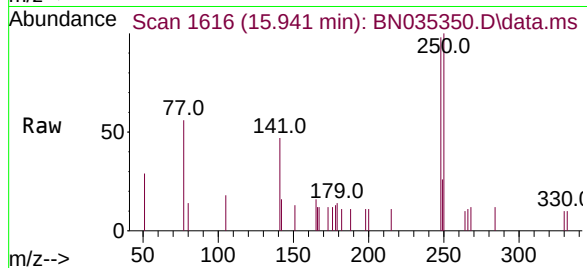
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

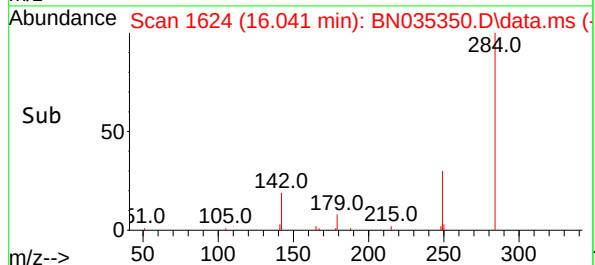
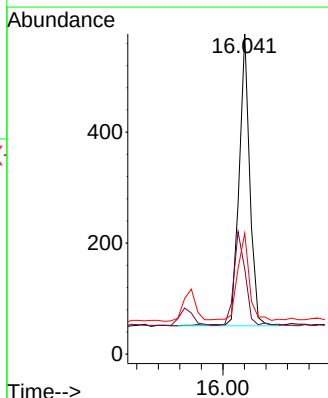
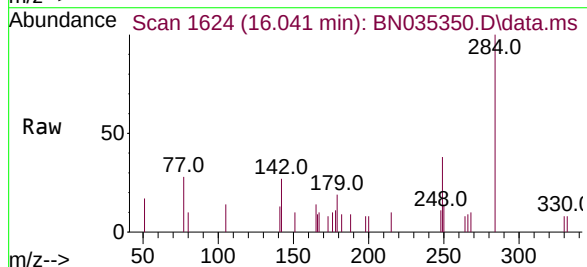
Manual Integrations
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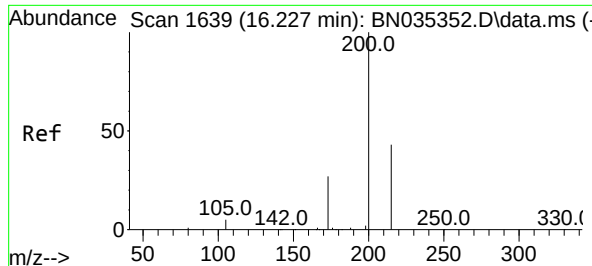
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

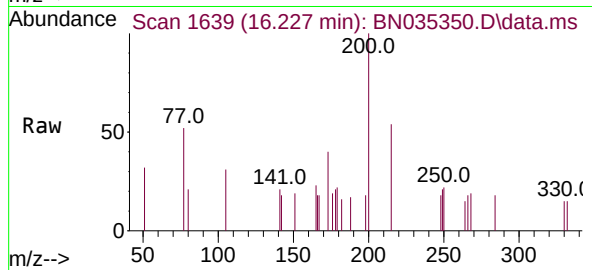
Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 32.2 24.6 36.8





#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

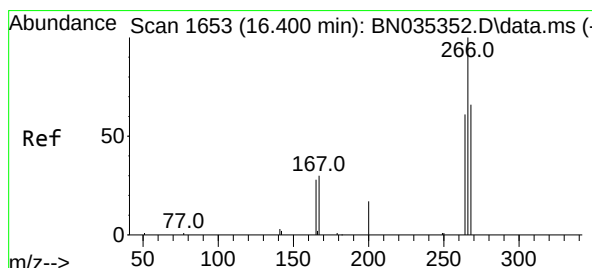
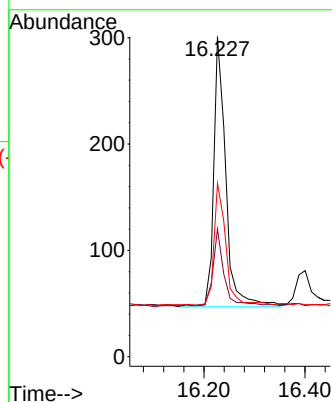
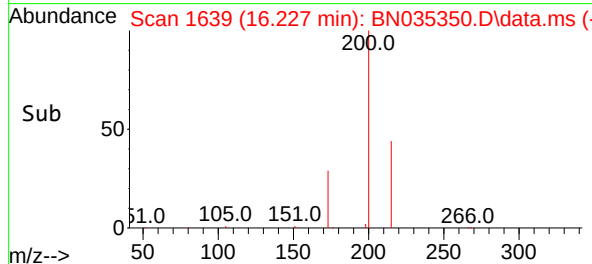
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:200 Resp: 42.1
Ion Ratio Lower Upper
200 100
173 39.9 24.1 36.1
215 54.2 36.9 55.3

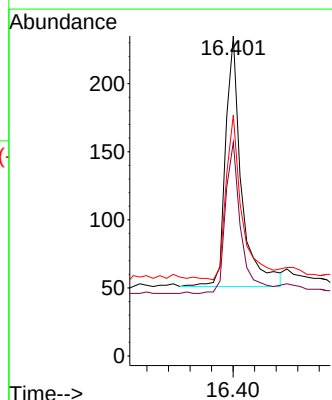
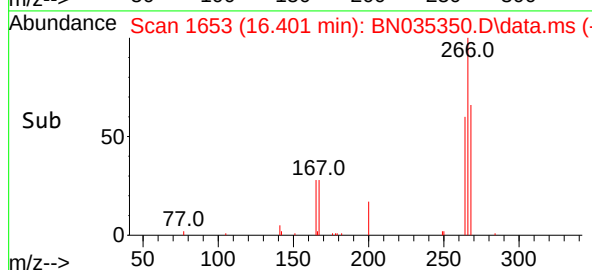
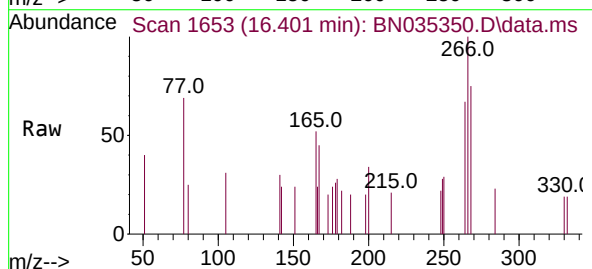
Manual Integrations
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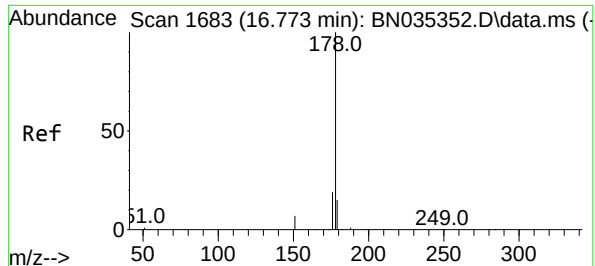
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





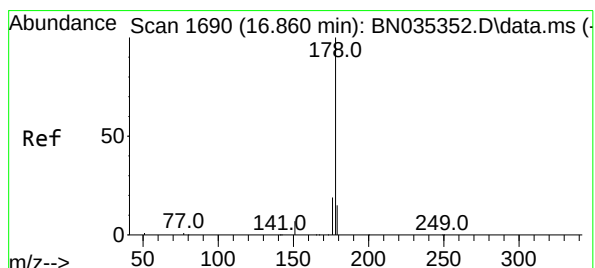
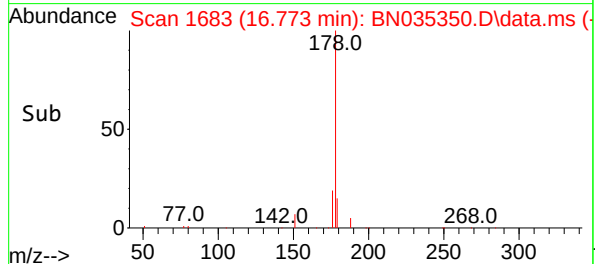
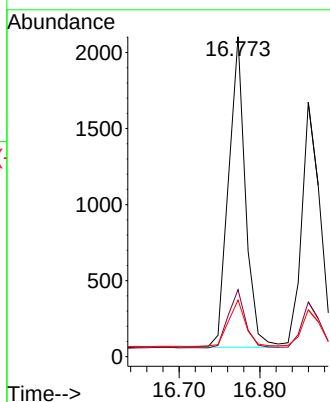
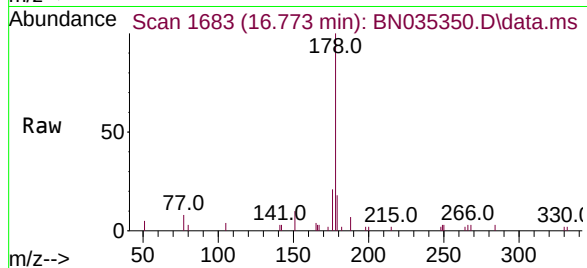
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 296
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.3 18.5

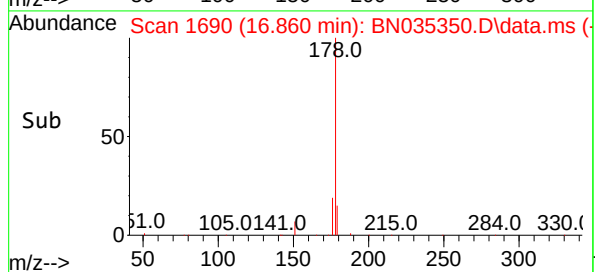
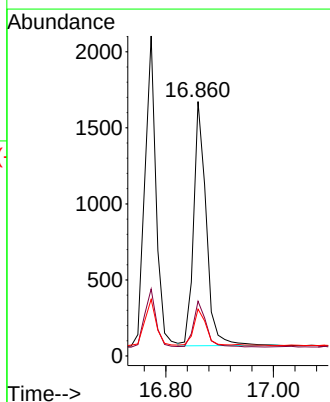
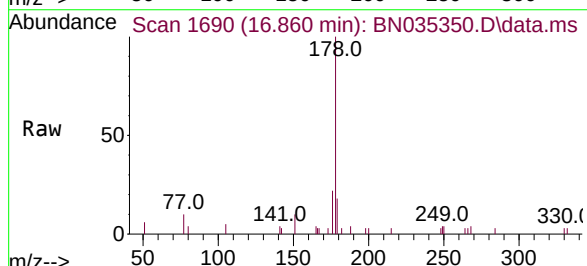
Manual Integrations
APPROVED

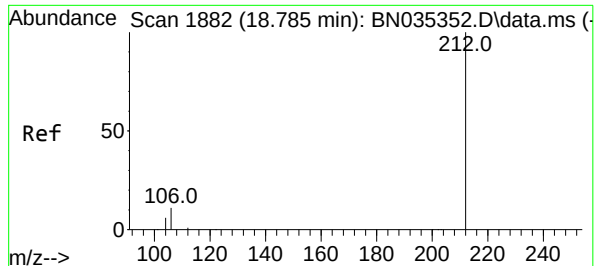
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1882

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

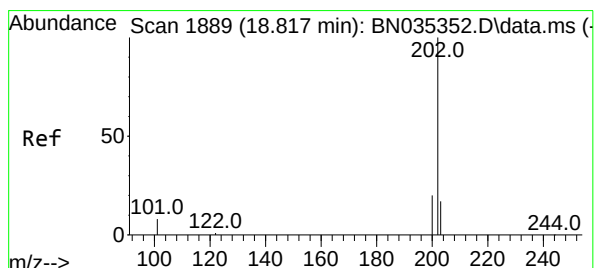
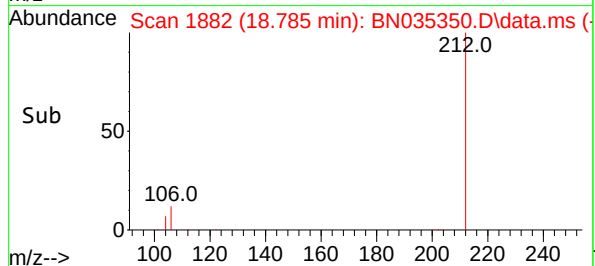
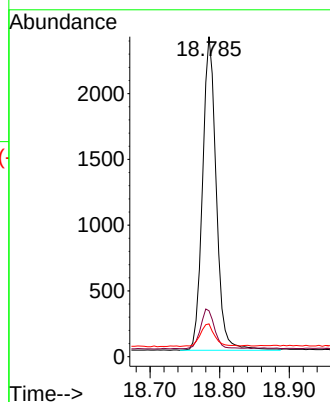
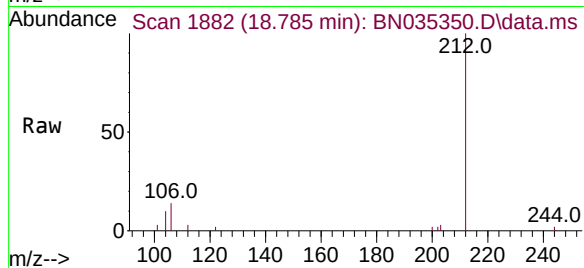
SSTDICC0.1

Tgt Ion:	212	Resp:	326
Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

Manual Integrations

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



#28

Fluoranthene

Concen: 0.106 ng

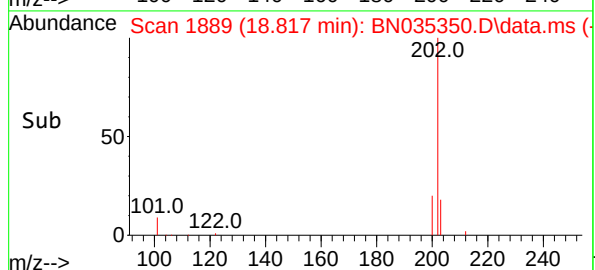
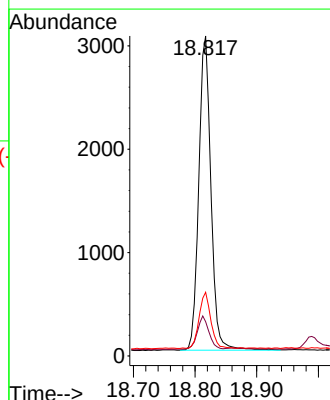
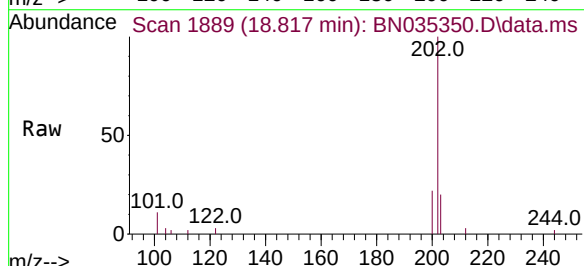
RT: 18.817 min Scan# 1889

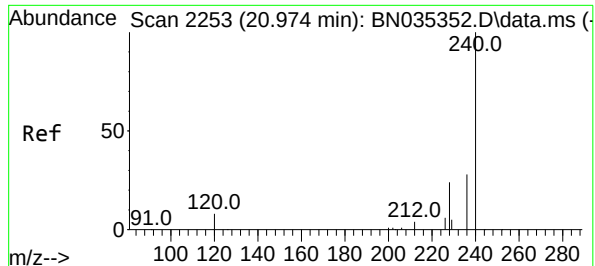
Delta R.T. 0.000 min

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# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

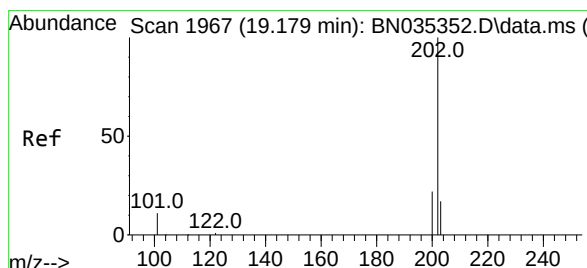
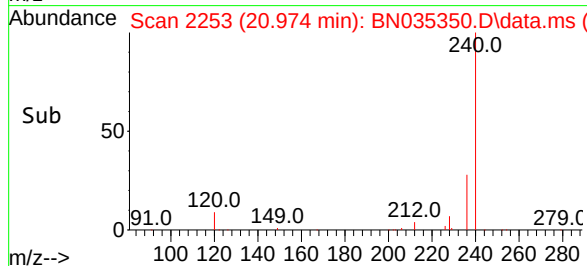
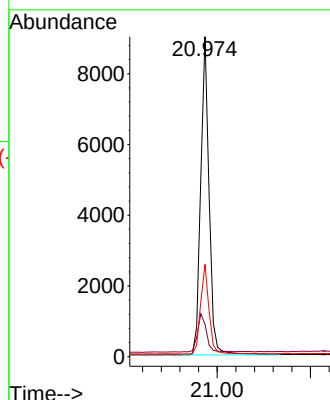
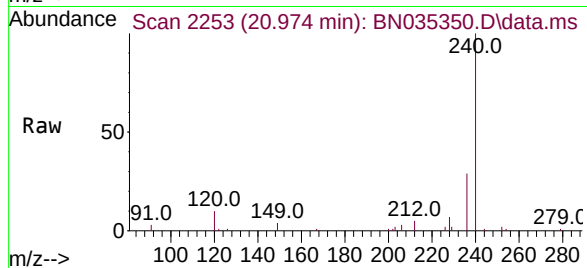
SSTDICC0.1

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

Manual Integrations

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



#30

Pyrene

Concen: 0.119 ng

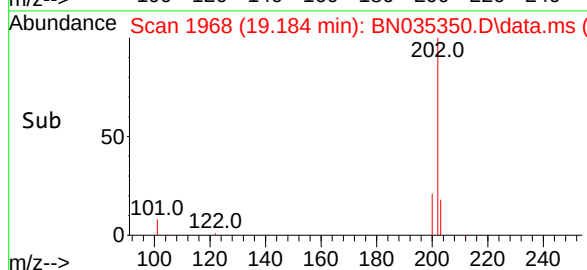
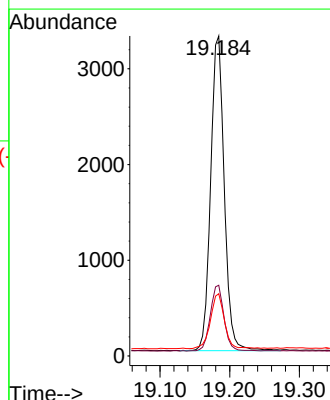
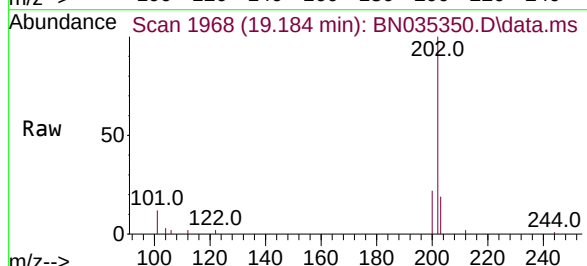
RT: 19.184 min Scan# 1968

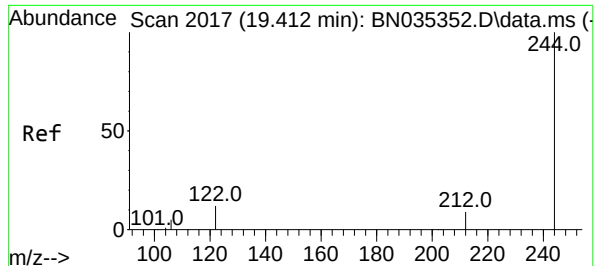
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

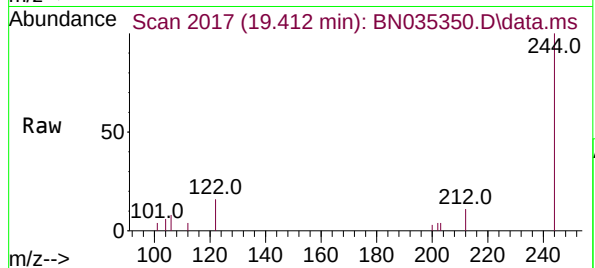
Tgt Ion:	202	Resp:	4461
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5





#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

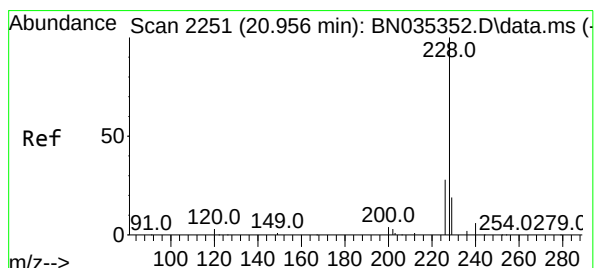
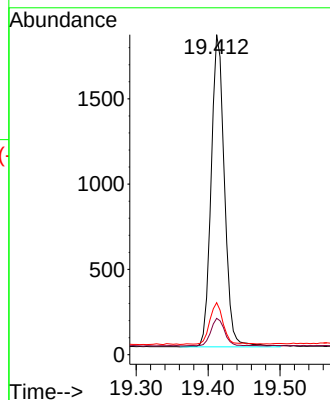
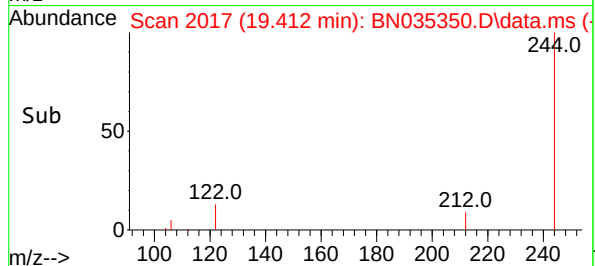
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

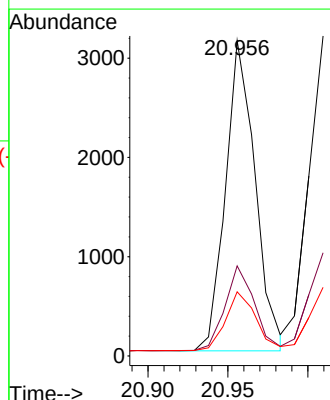
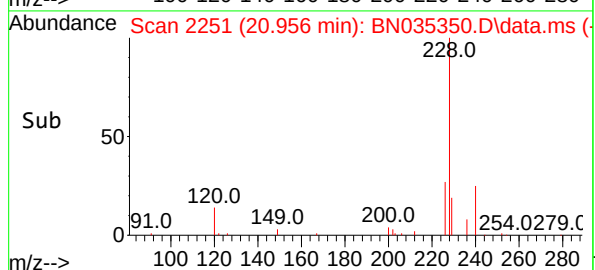
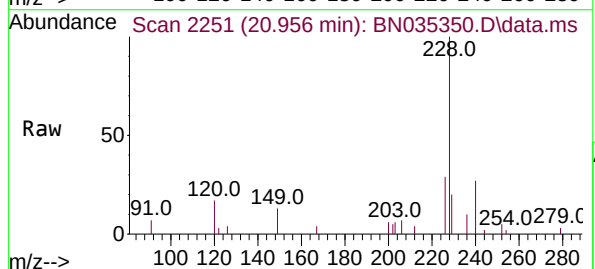
Manual Integrations
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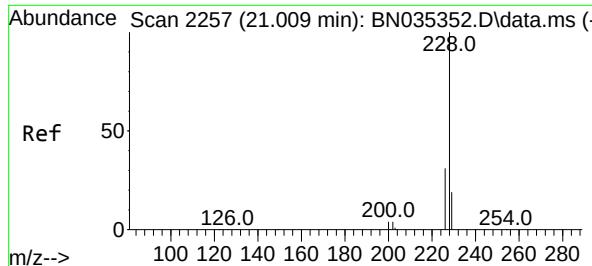
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

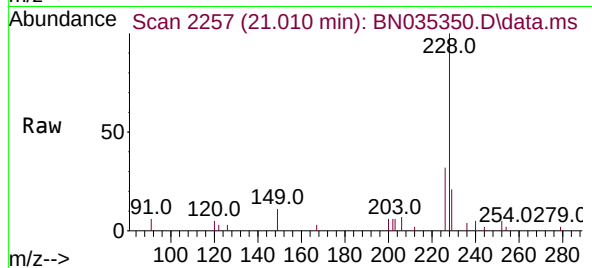
Tgt Ion:228 Resp: 4031
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 20.4 15.8 23.8





#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2101
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

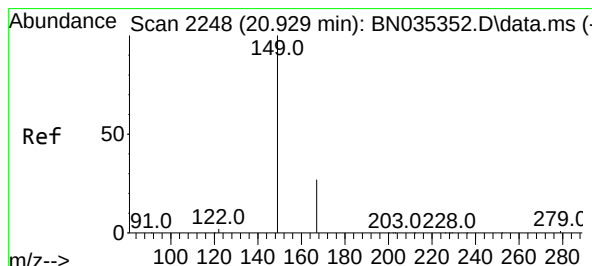
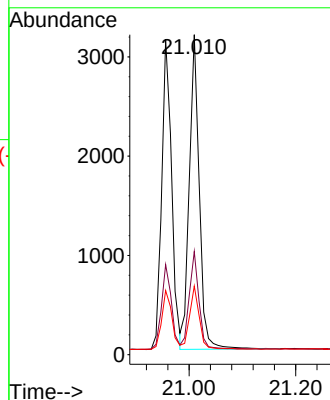
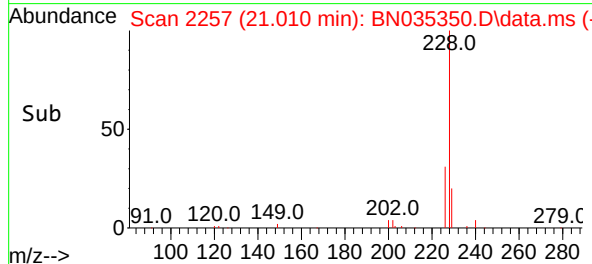
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 412
Ion Ratio Lower Upper
228 100
226 32.3 24.6 37.0
229 21.5 15.9 23.9

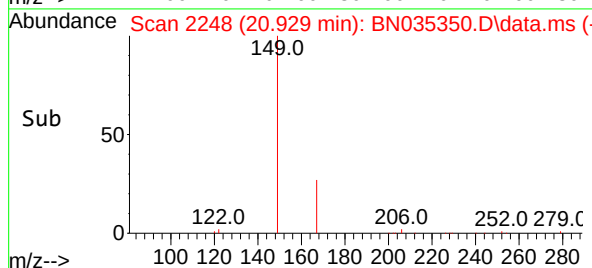
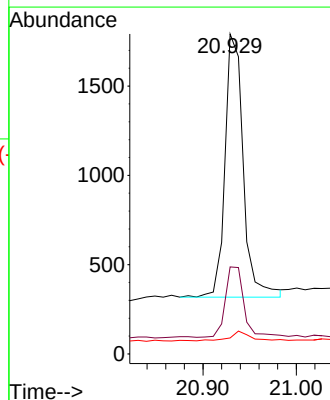
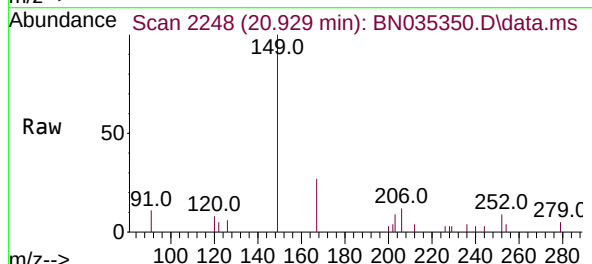
Manual Integrations
APPROVED

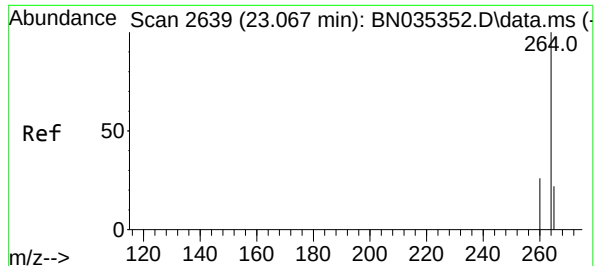
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

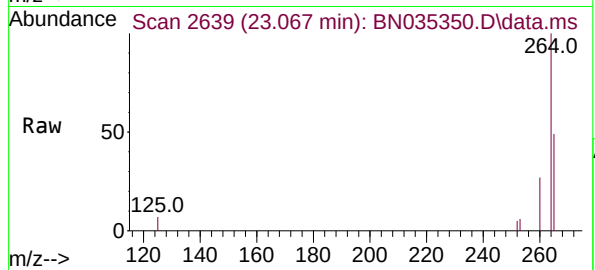
Tgt Ion:149 Resp: 1999
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.6 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

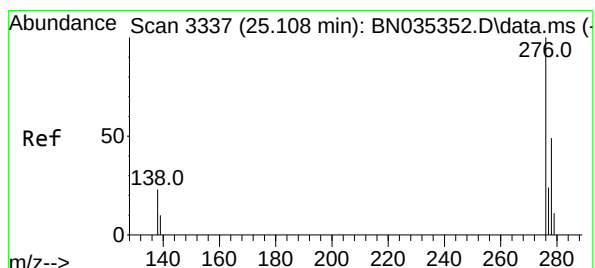
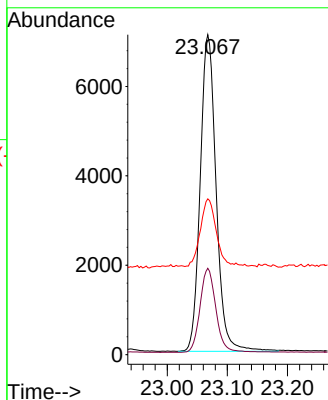
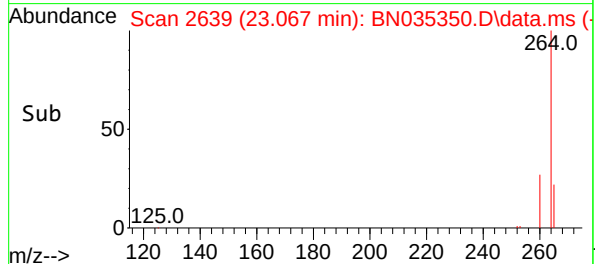
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

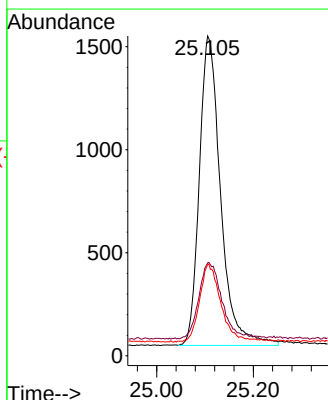
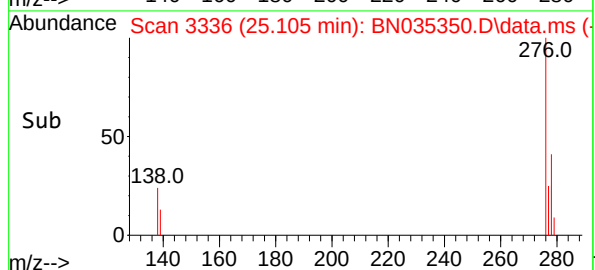
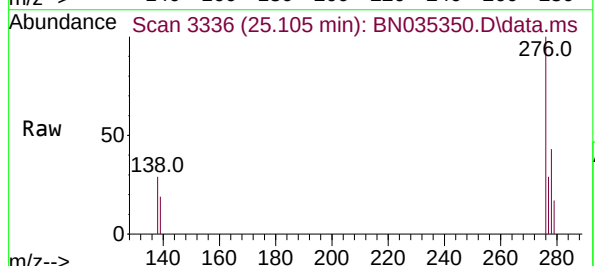
Manual Integrations
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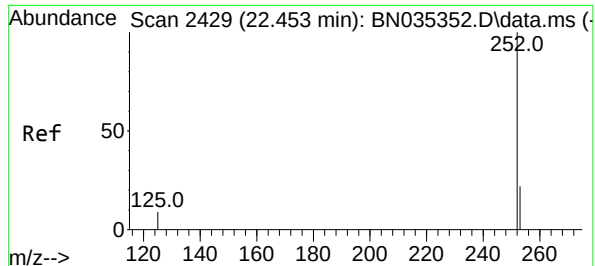
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 2430

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

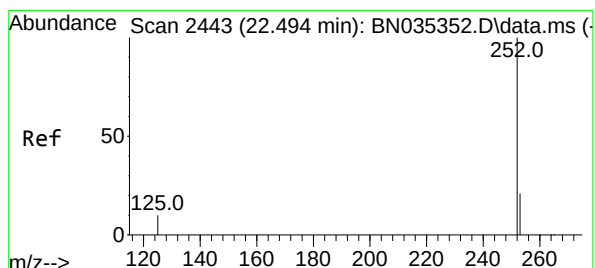
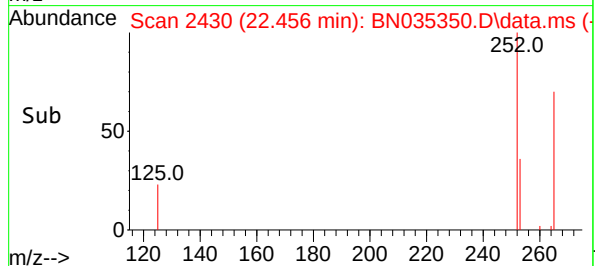
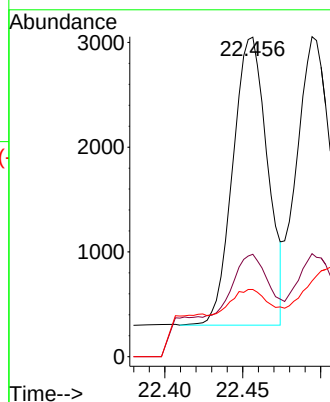
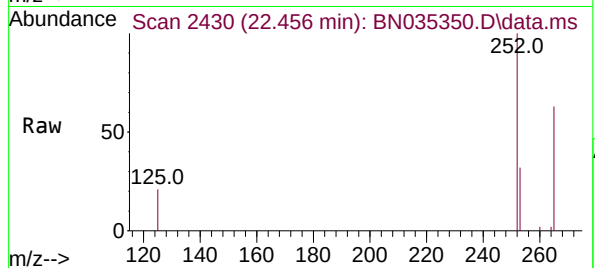
SSTDICC0.1

Tgt Ion:252	Resp:	424
Ion Ratio	Lower	Upper
252	100	
253	32.1	19.6 29.4
125	21.0	9.6 14.4

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

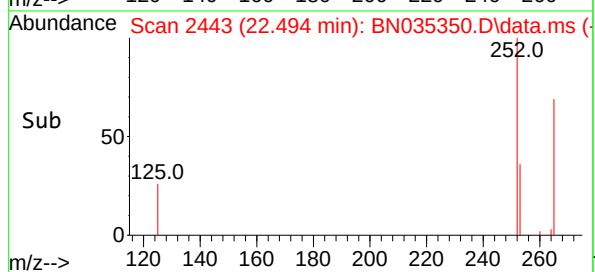
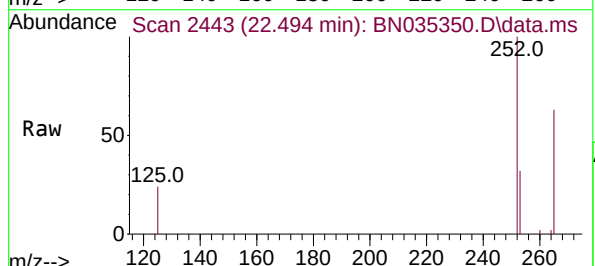
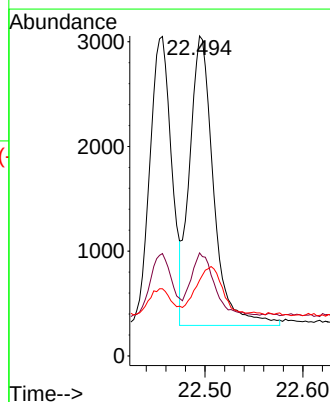
RT: 22.494 min Scan# 2443

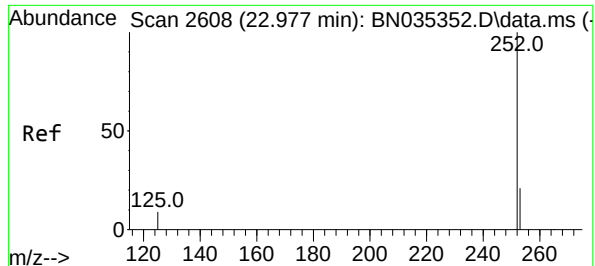
Delta R.T. 0.000 min

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# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

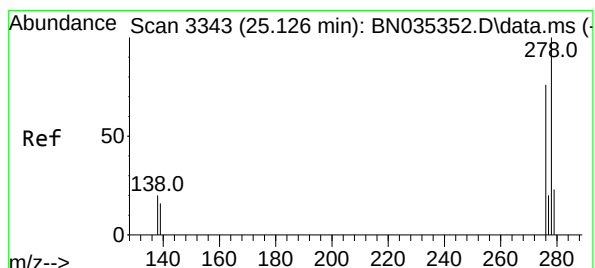
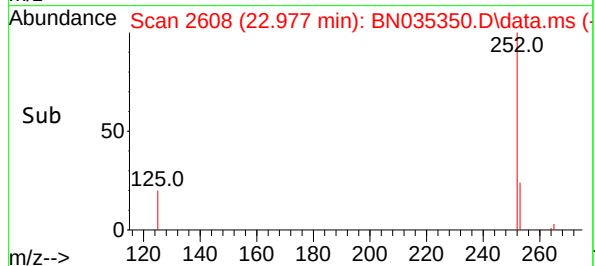
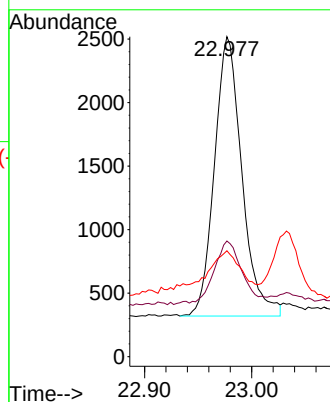
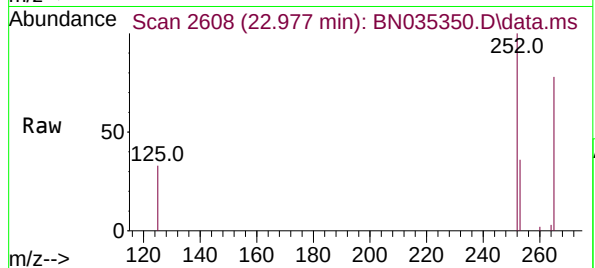
Tgt Ion:	252	Resp:	391
Ion Ratio	Lower	Upper	
252	100		
253	36.1	20.2	30.4
125	33.1	10.9	16.3

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

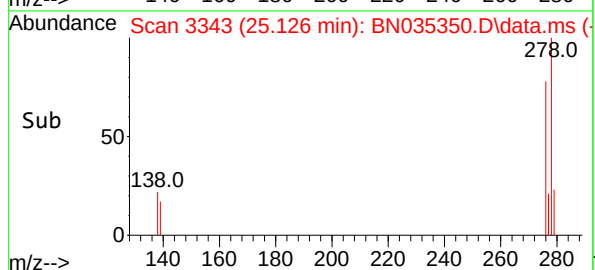
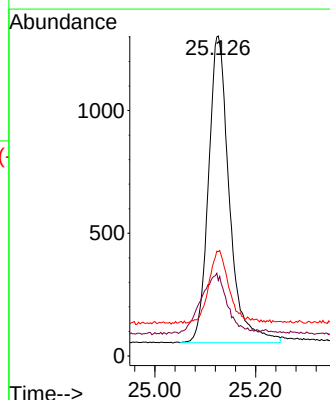
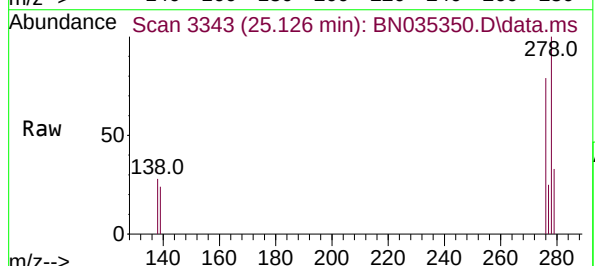
RT: 25.126 min Scan# 3343

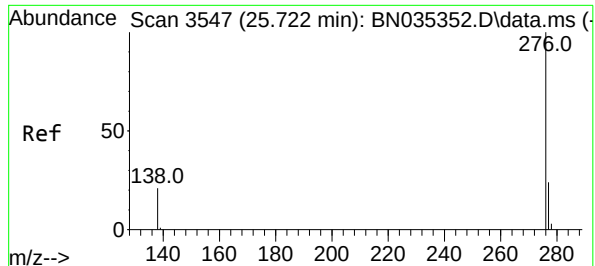
Delta R.T. 0.000 min

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

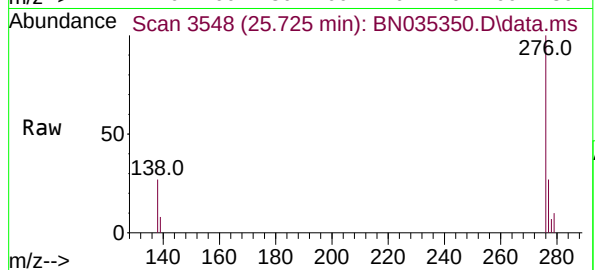
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

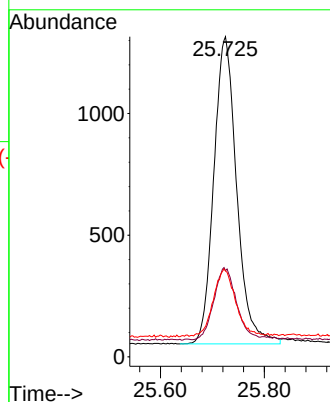
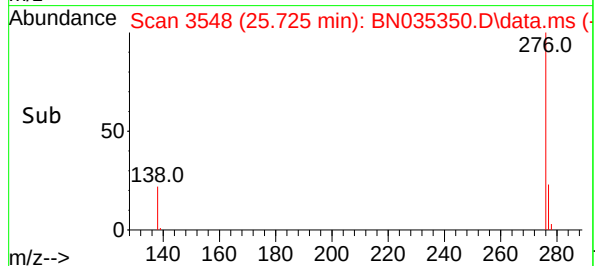
138 26.8 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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

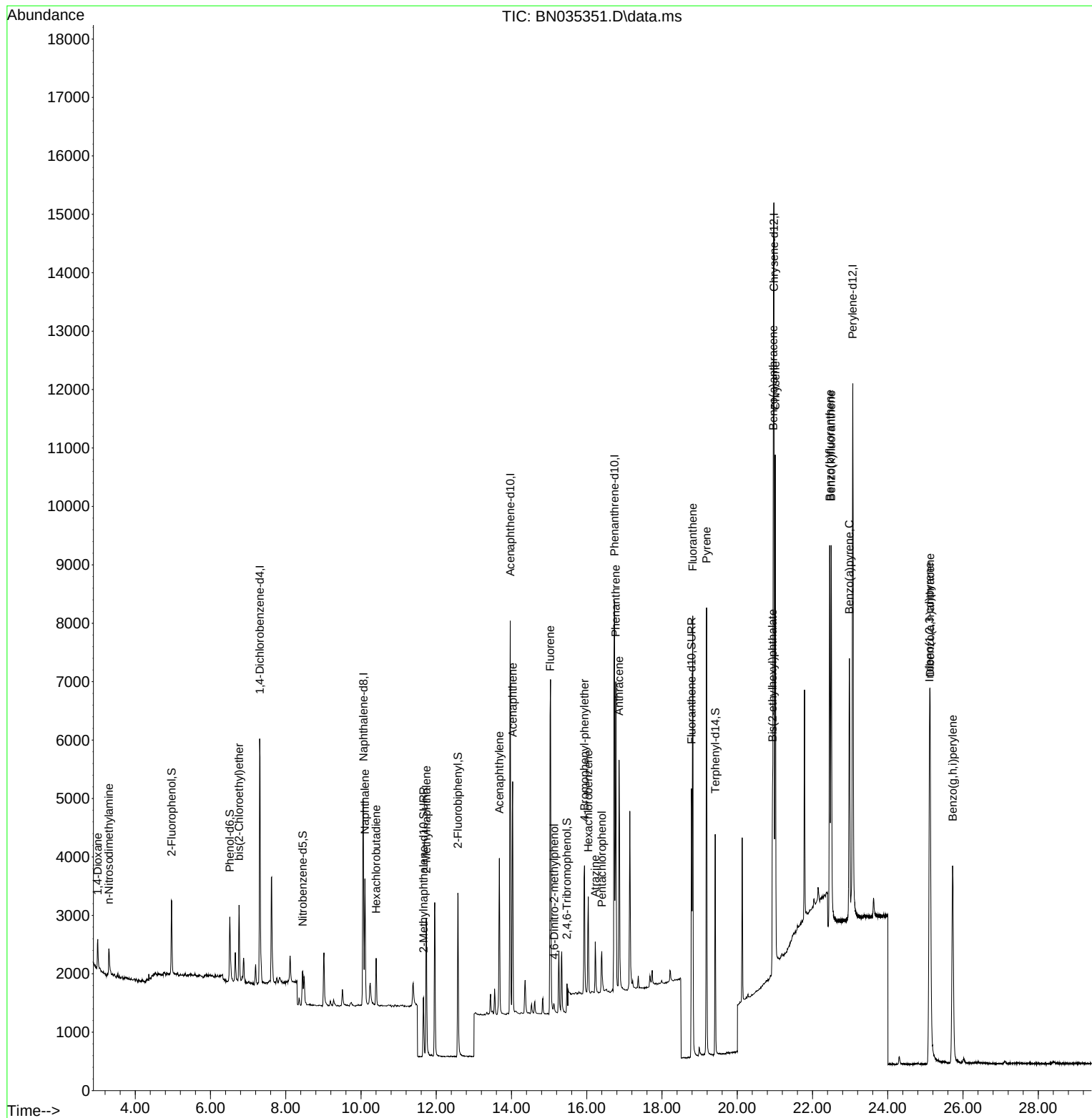
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

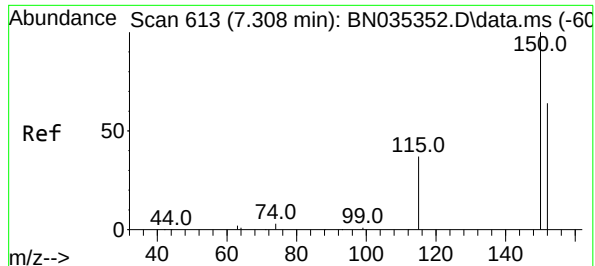
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

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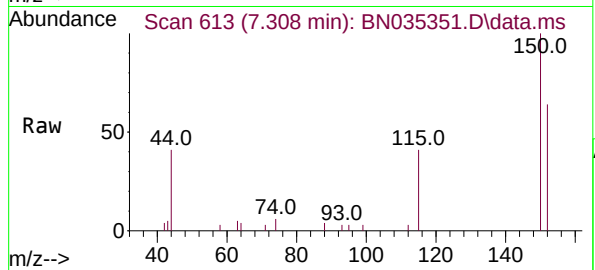
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





#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

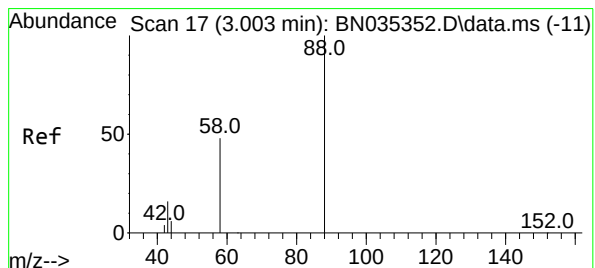
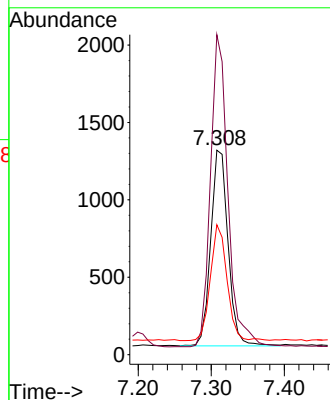
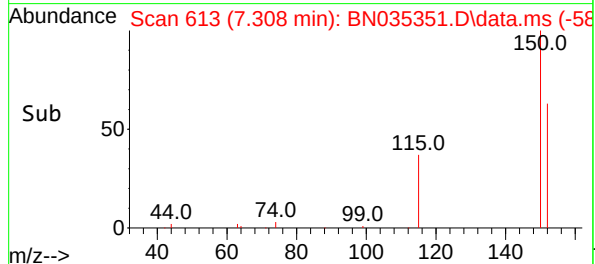
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

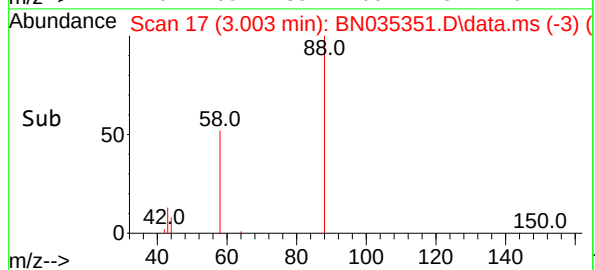
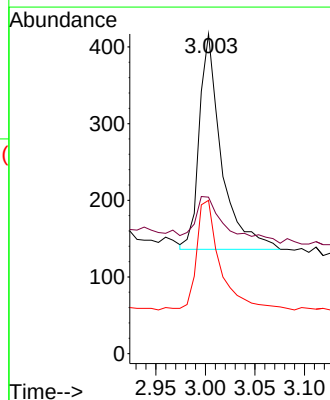
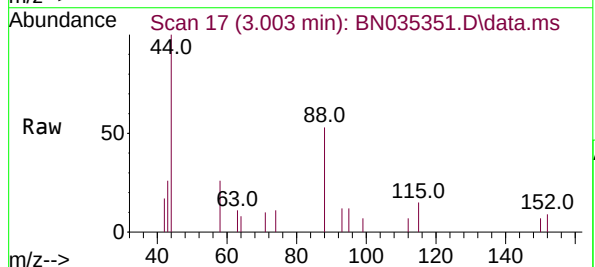
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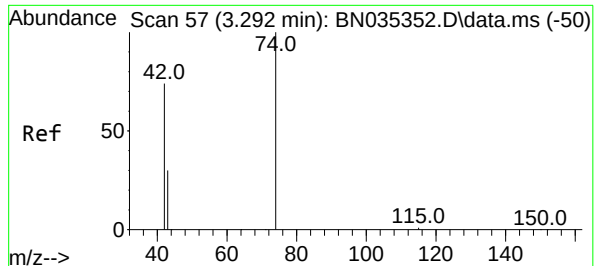
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

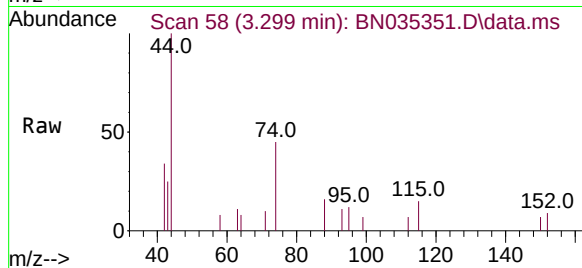
Tgt Ion: 88 Resp: 435
Ion Ratio Lower Upper
88 100
43 29.9 17.2 25.8#
58 55.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 57
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

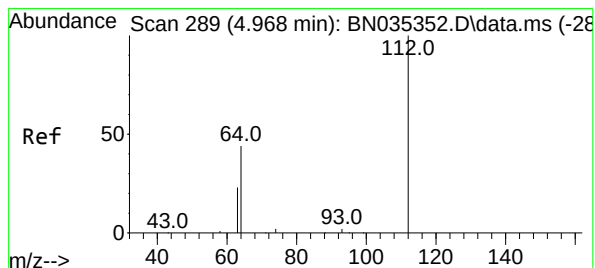
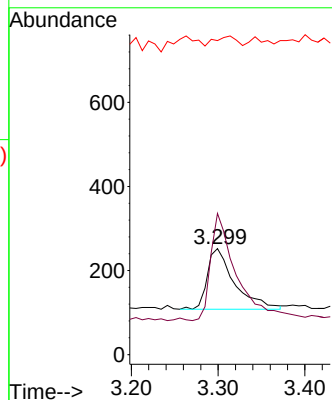
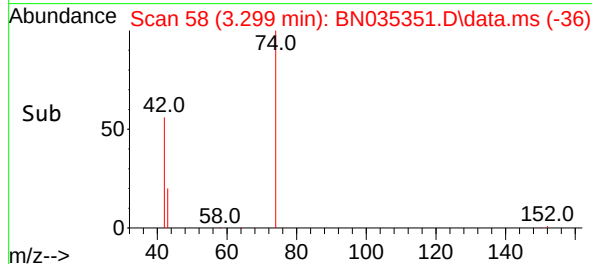
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

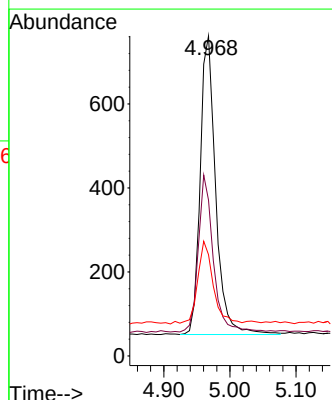
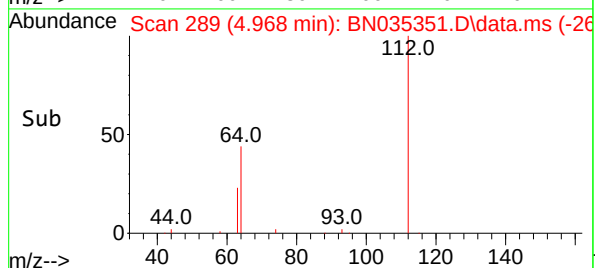
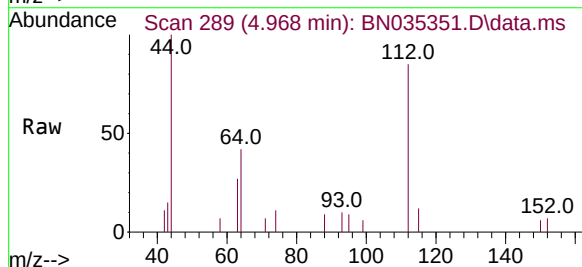
Manual Integrations
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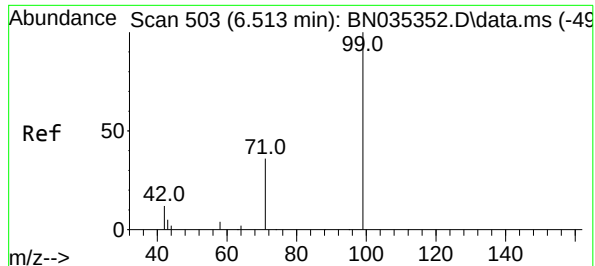
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





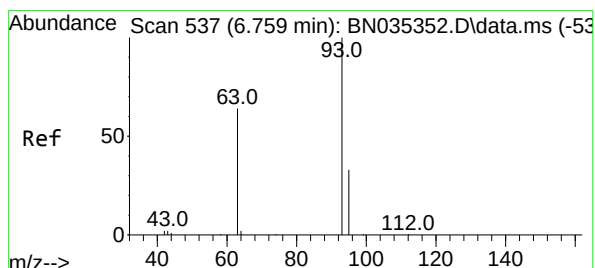
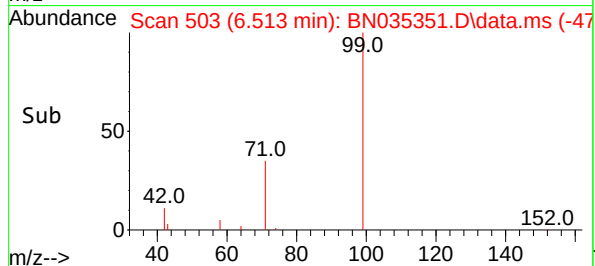
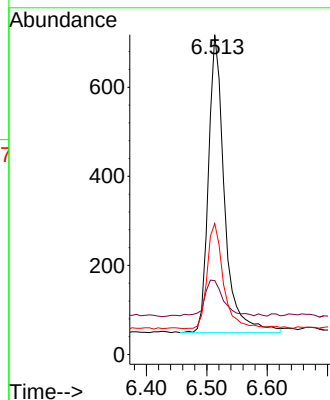
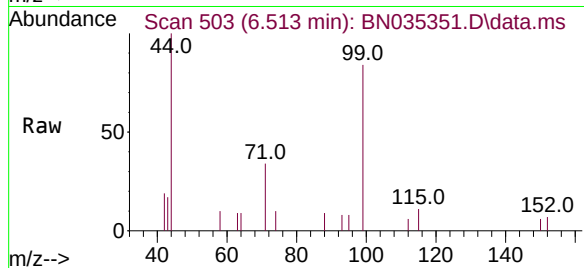
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1230
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 35.8 29.3 43.9

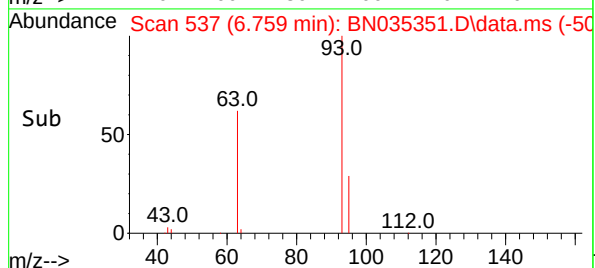
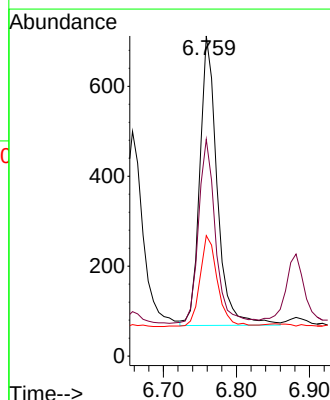
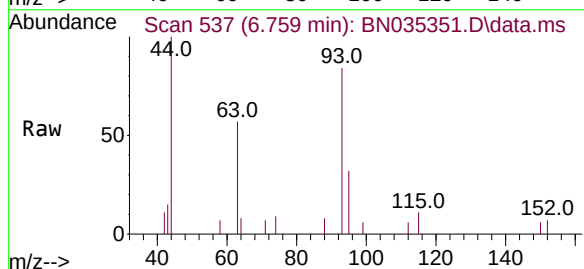
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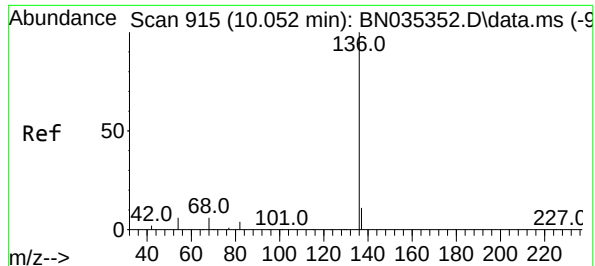
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





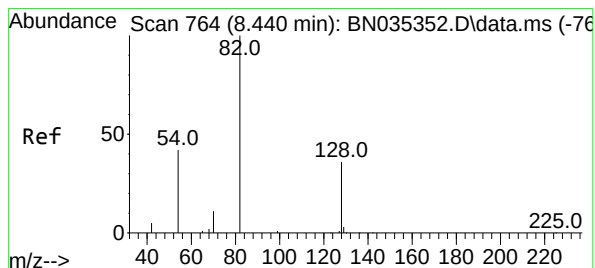
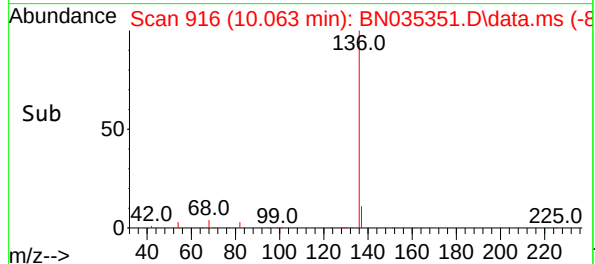
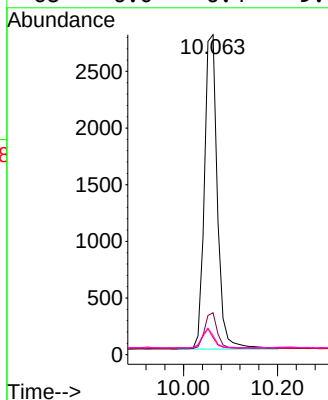
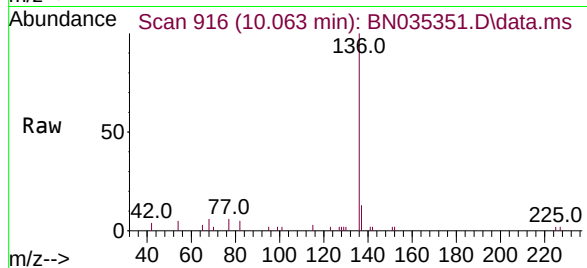
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

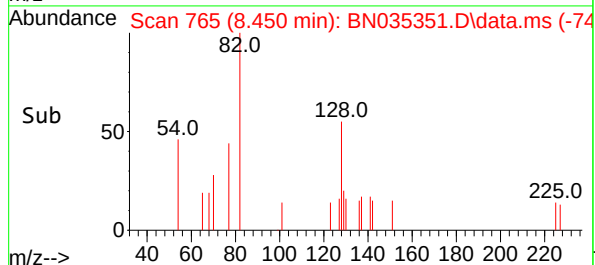
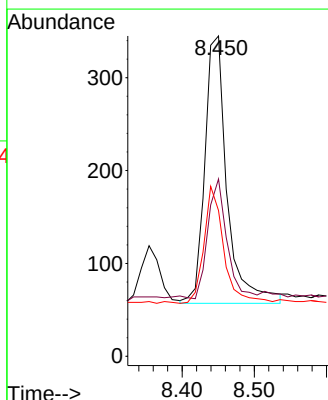
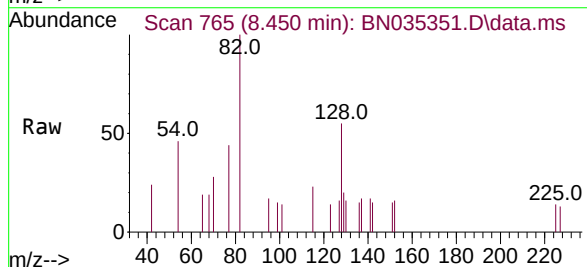
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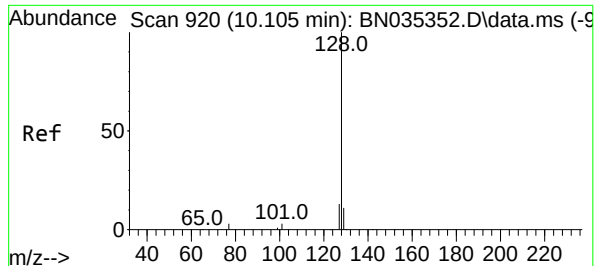
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





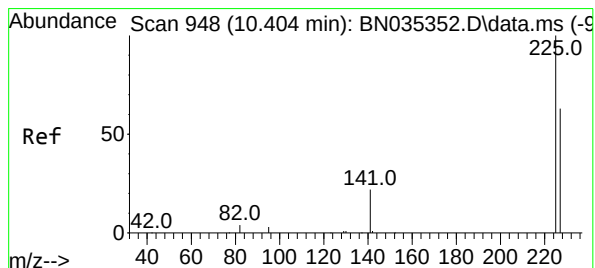
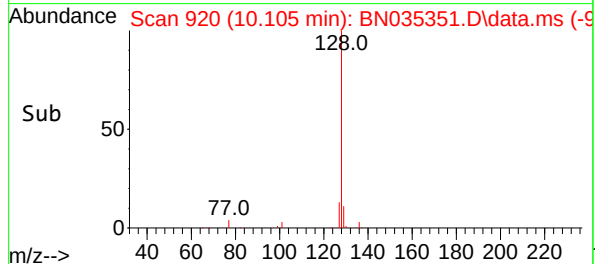
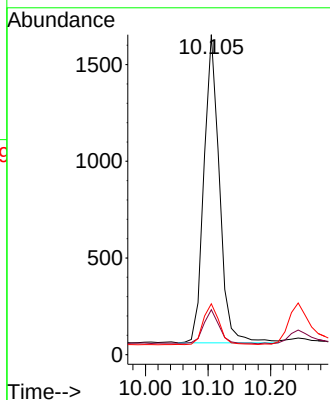
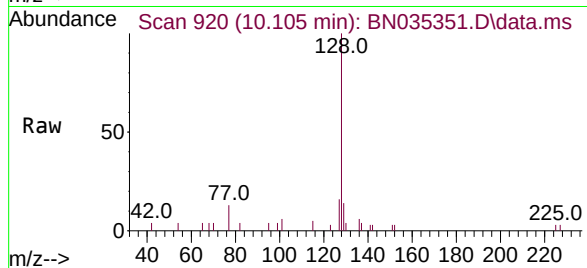
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

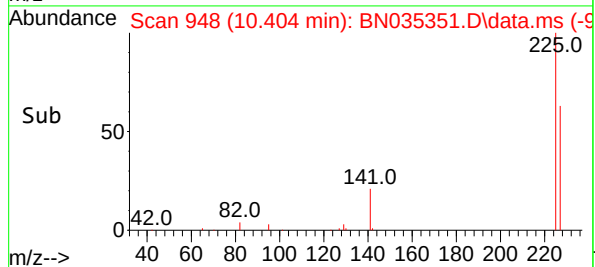
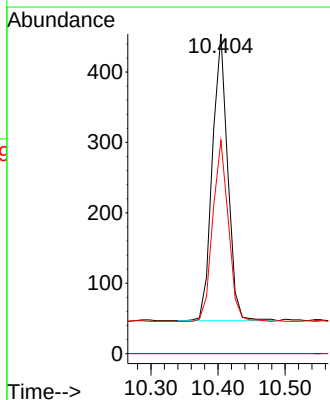
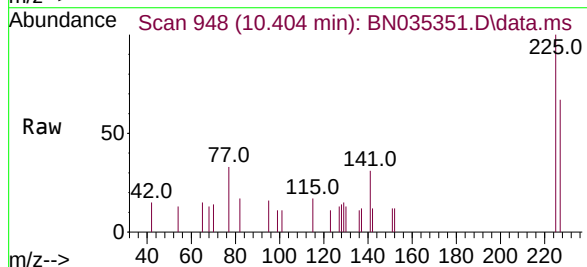
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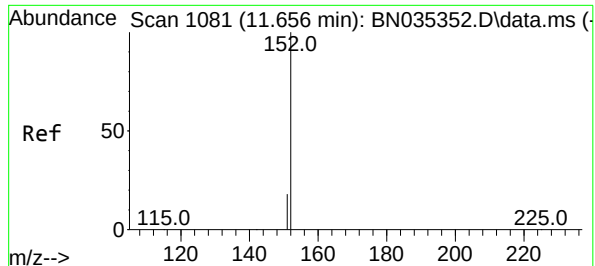
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

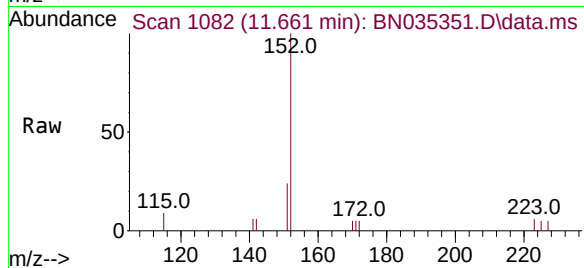
Tgt Ion:225 Resp: 646
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

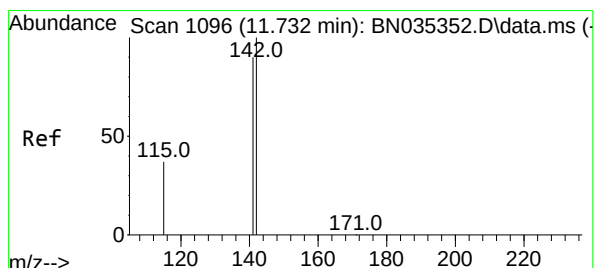
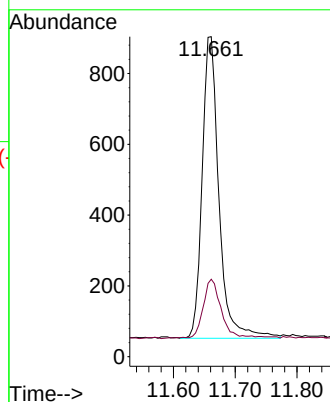
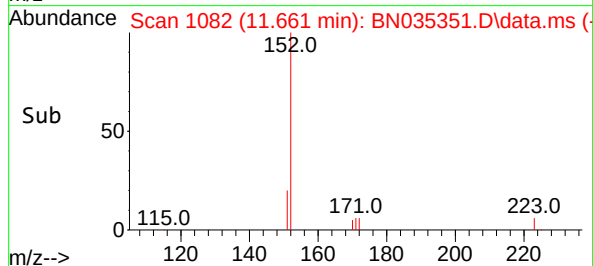
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0

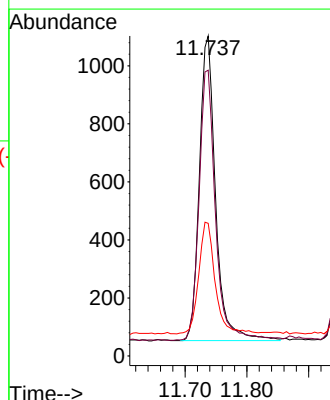
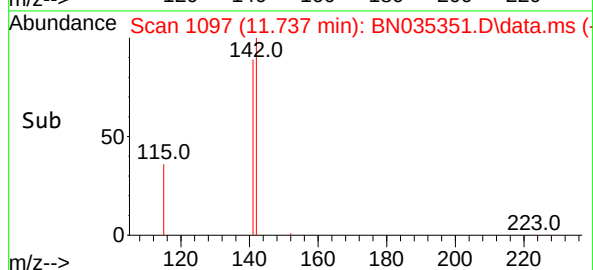
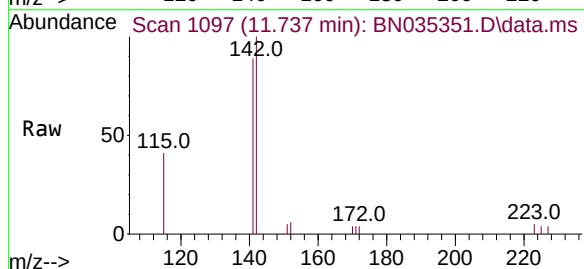
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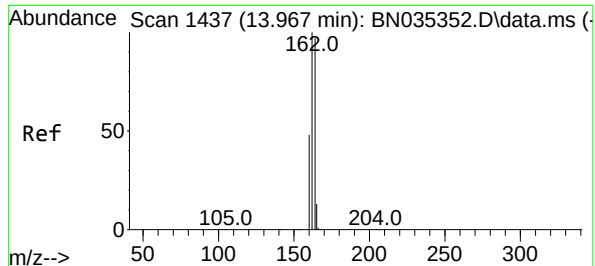
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

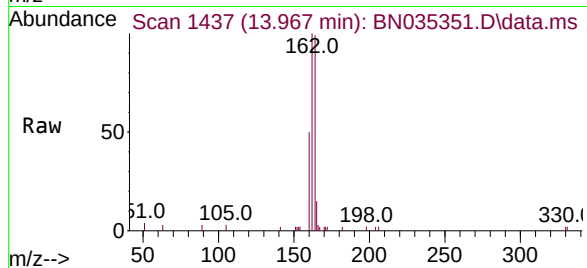
Tgt Ion:142 Resp: 1910
Ion Ratio Lower Upper
142 100
141 89.3 72.2 108.4
115 41.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

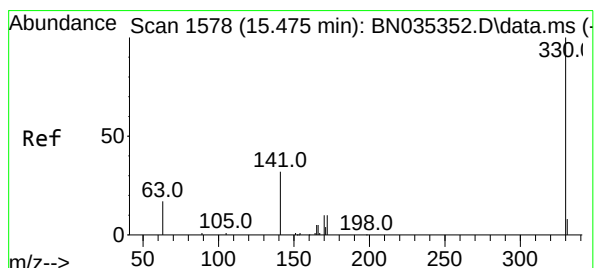
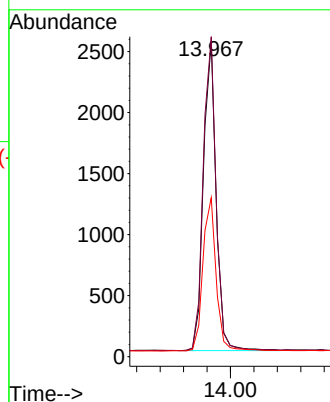
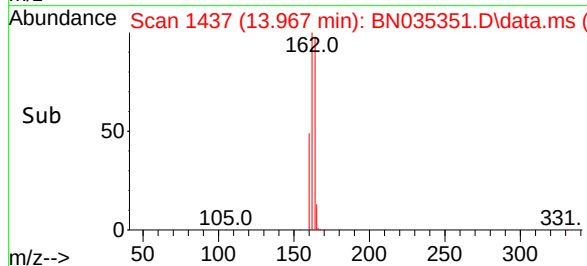
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:164 Resp: 380
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1

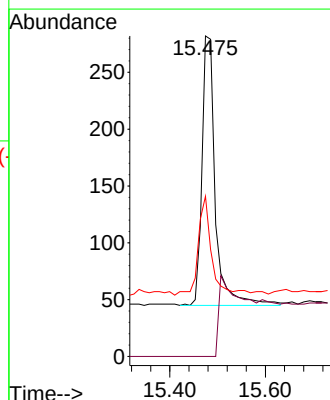
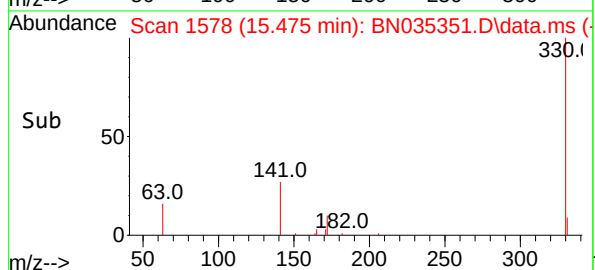
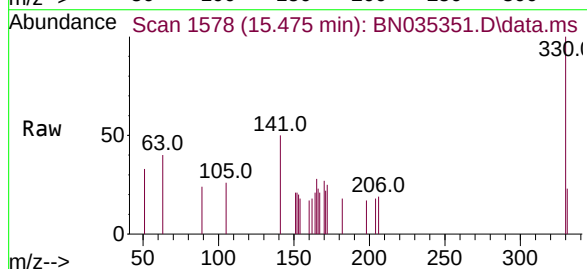
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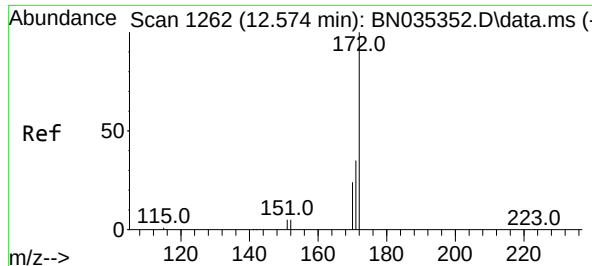
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1262

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

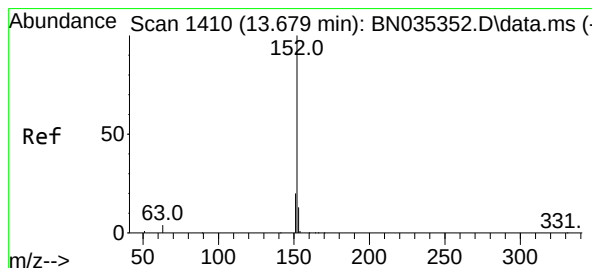
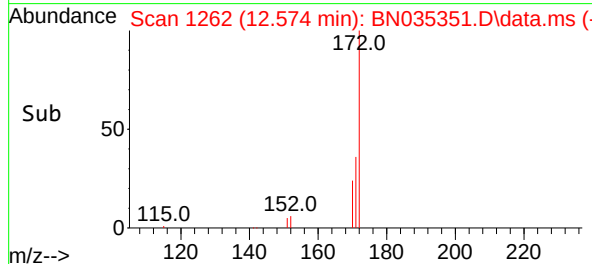
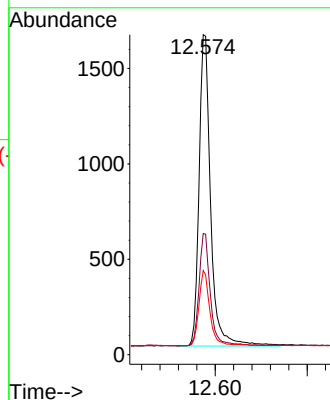
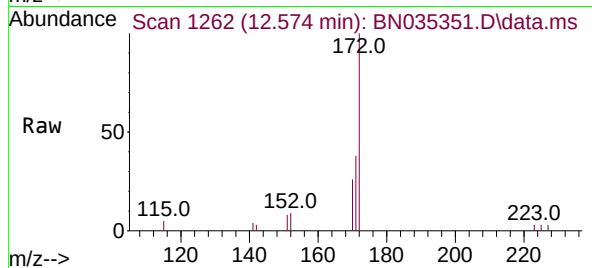
170 26.3 19.8 29.8

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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

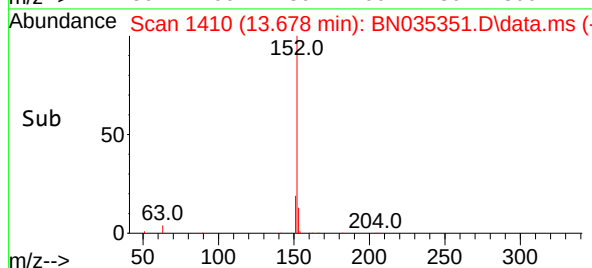
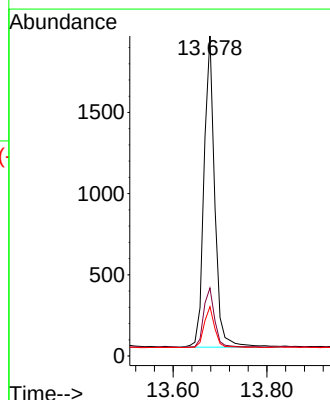
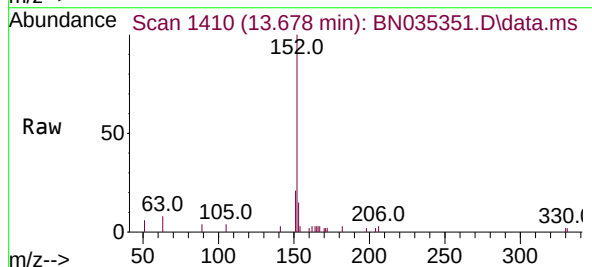
Tgt Ion:152 Resp: 3047

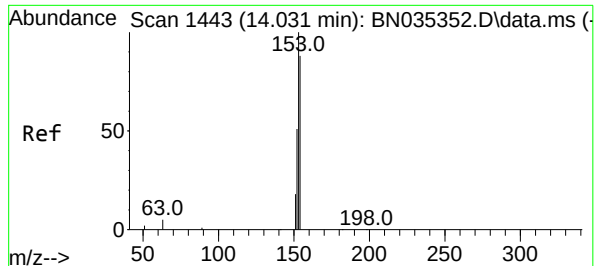
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

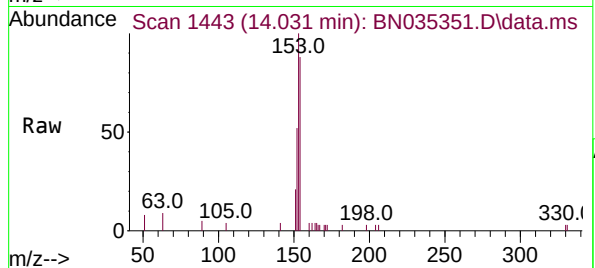
153 12.9 10.4 15.6





#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

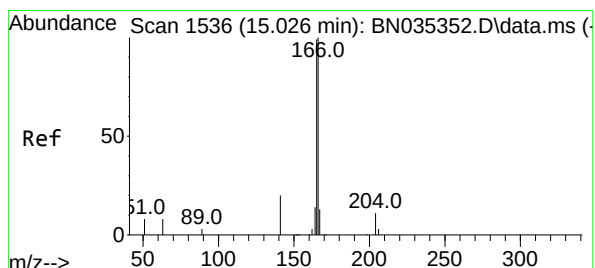
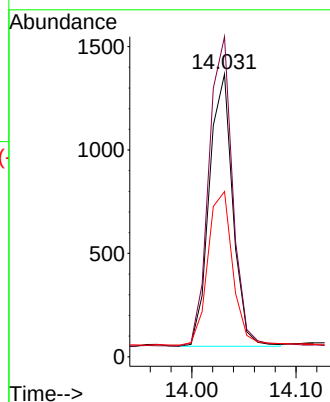
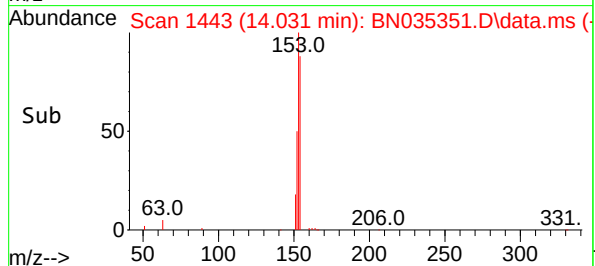
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

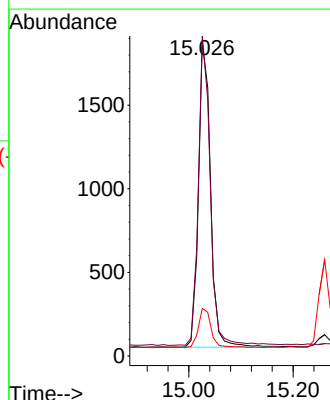
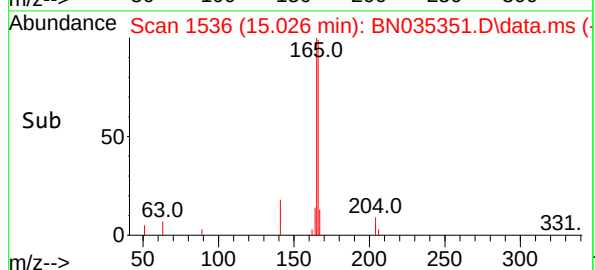
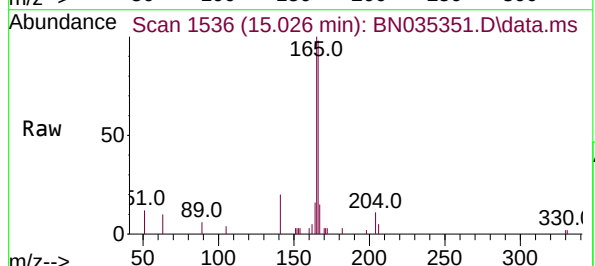
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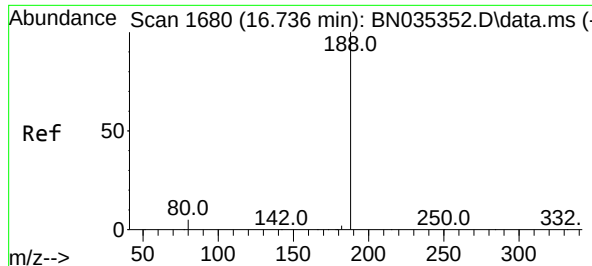
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

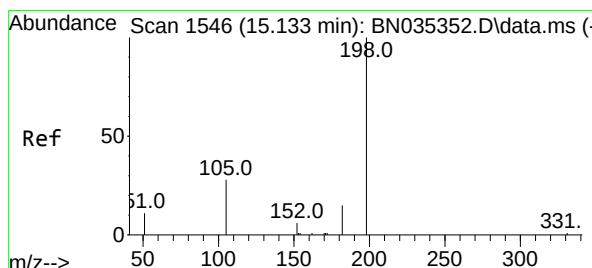
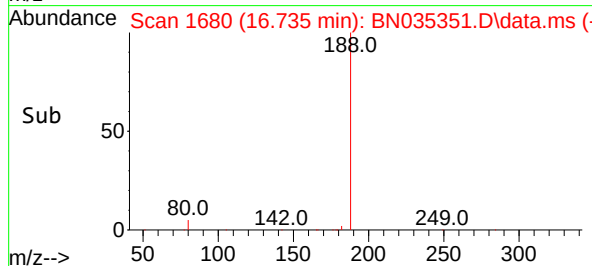
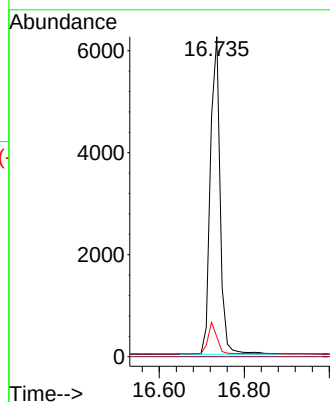
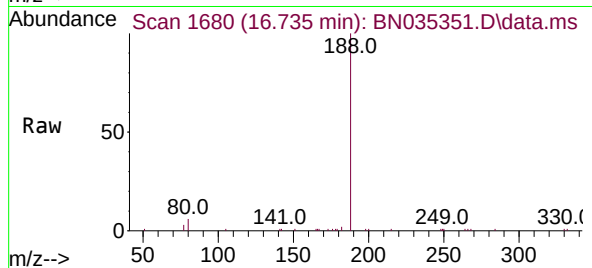
Tgt Ion	188	94	80
Ratio	100	0.0	6.2
Lower		0.0	4.6
Upper		0.0	6.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

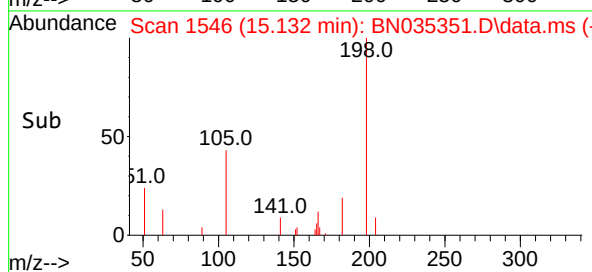
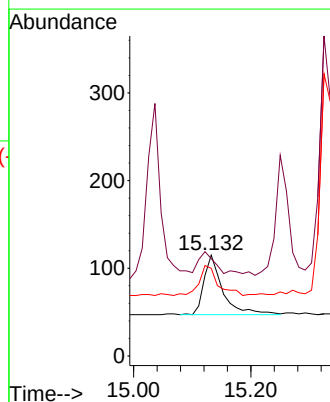
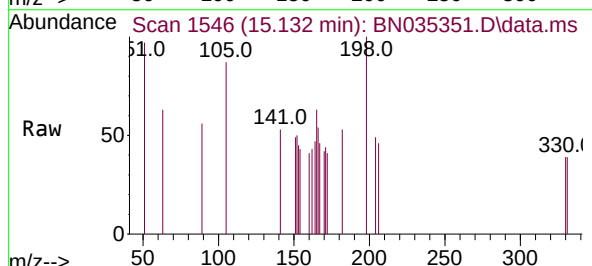
RT: 15.132 min Scan# 1546

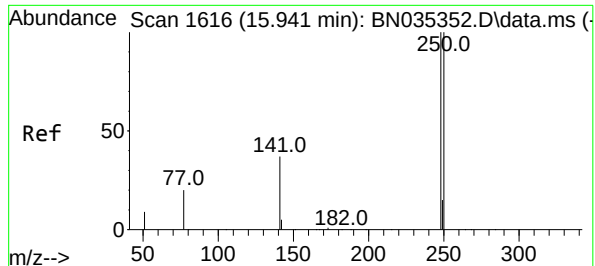
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt Ion	198	105	51
Ratio	100	87.0	96.5
Lower		45.3	46.5
Upper		67.9#	69.7#





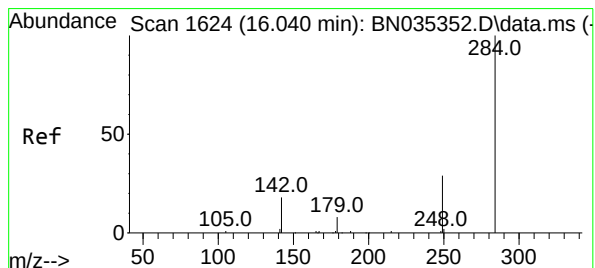
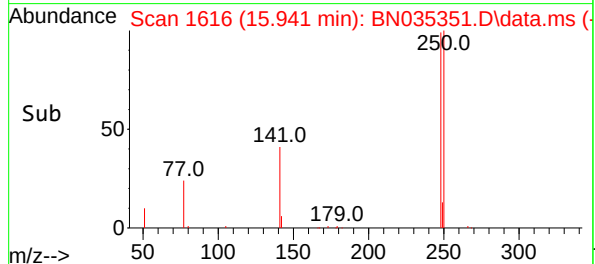
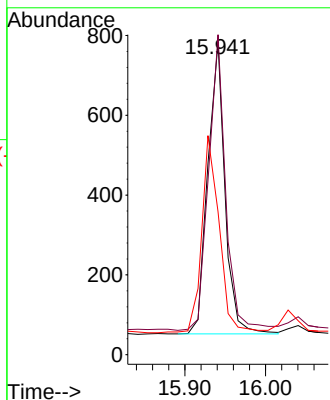
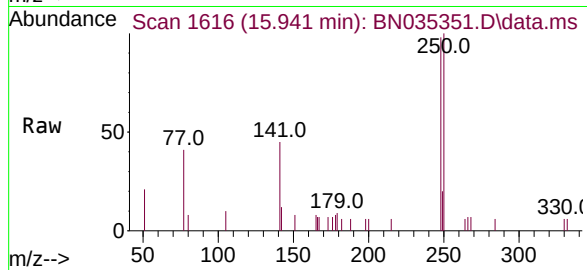
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 108
Ion Ratio Lower Upper
248 100
250 102.3 80.6 120.8
141 45.7 31.5 47.3

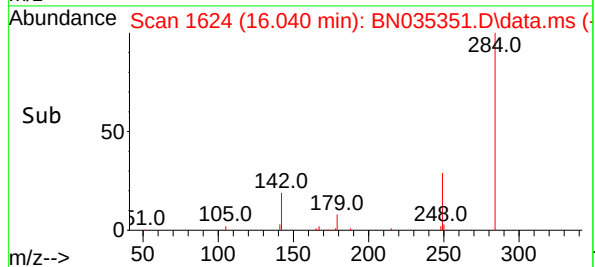
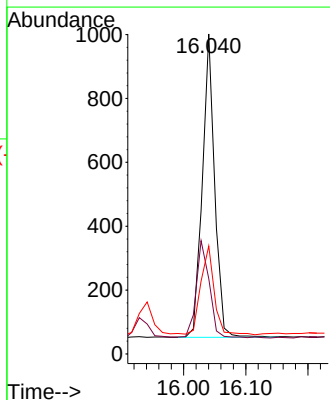
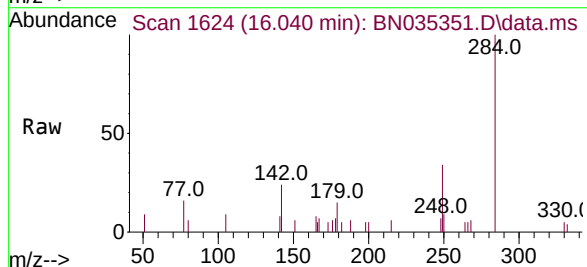
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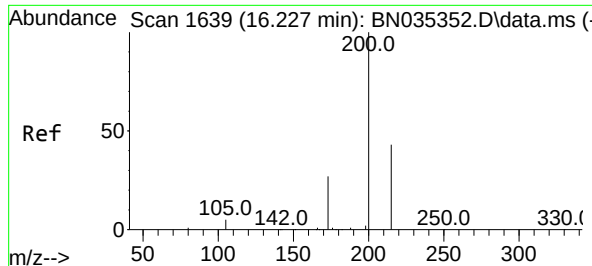
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

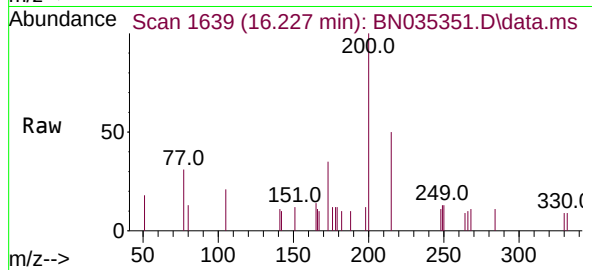
Tgt Ion:284 Resp: 1318
Ion Ratio Lower Upper
284 100
142 34.2 26.7 40.1
249 32.0 24.6 36.8





#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

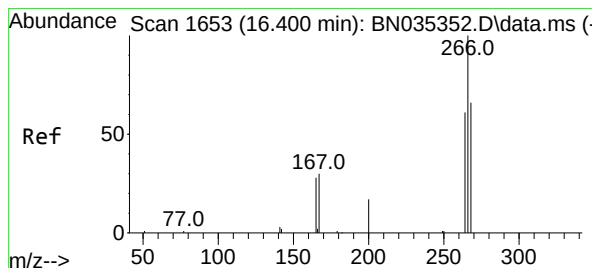
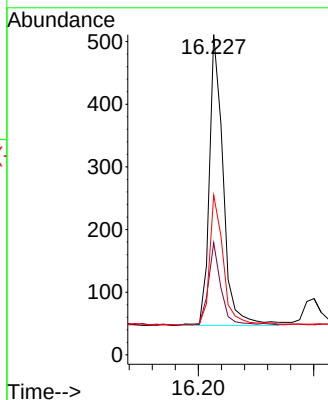
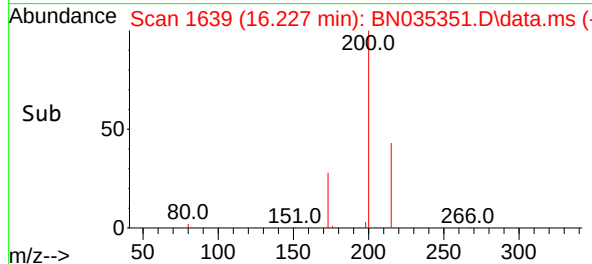
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

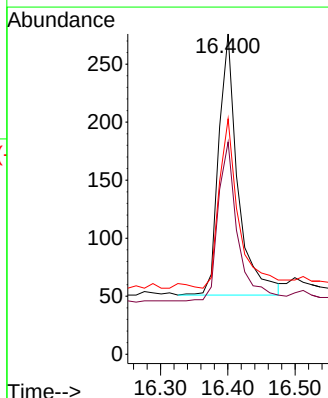
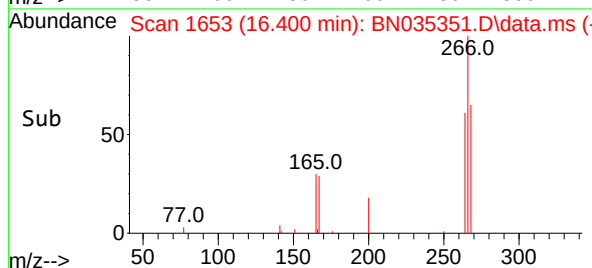
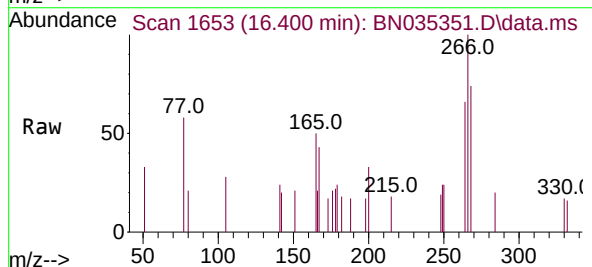
Manual Integrations
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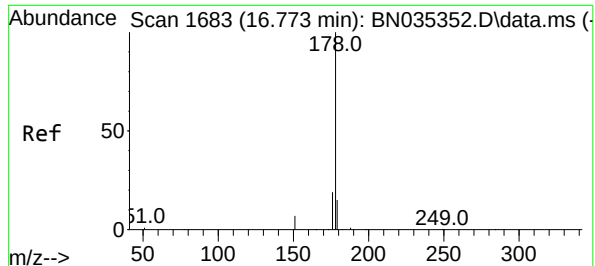
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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#





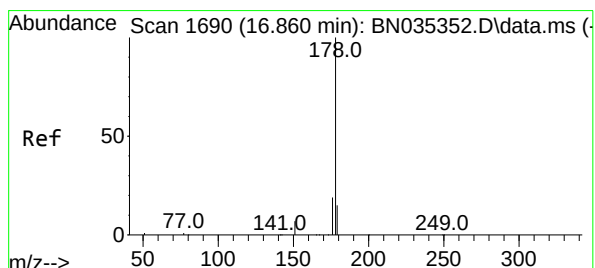
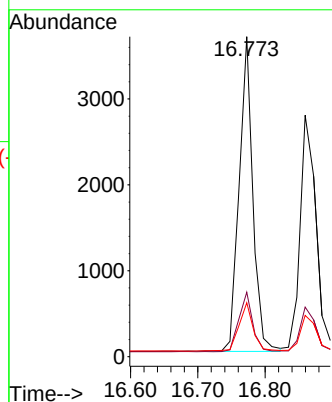
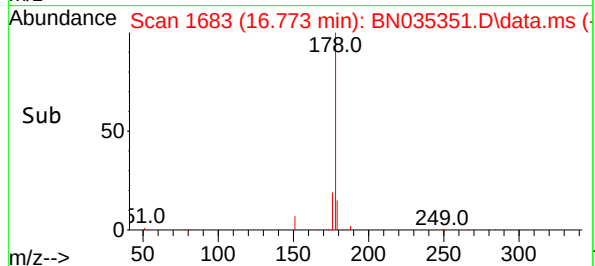
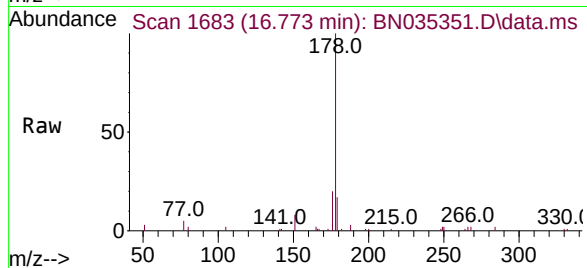
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 518
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5

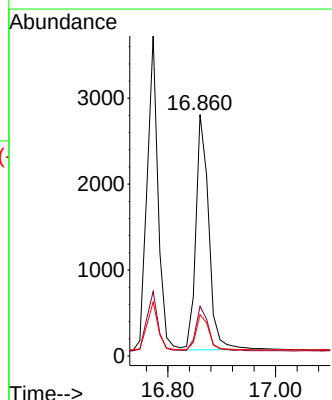
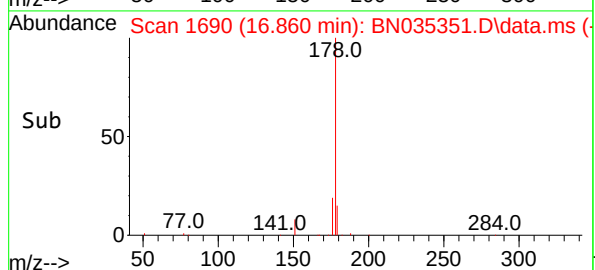
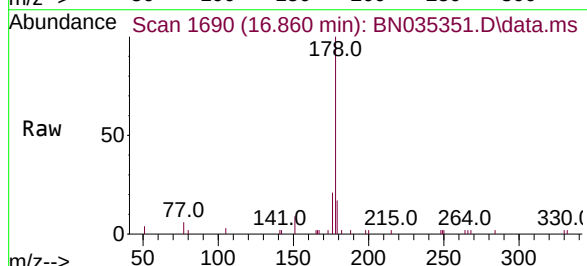
Manual Integrations
APPROVED

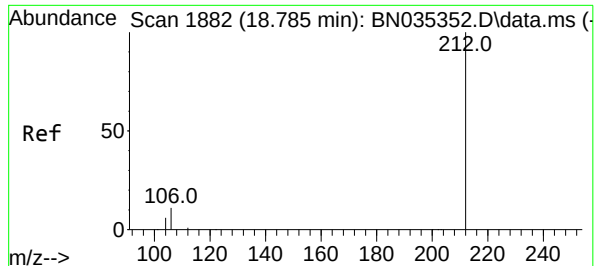
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





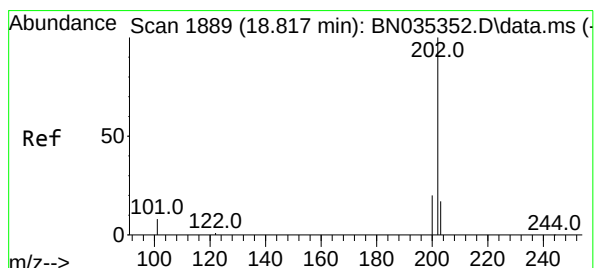
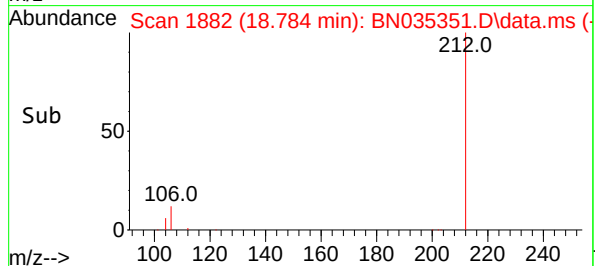
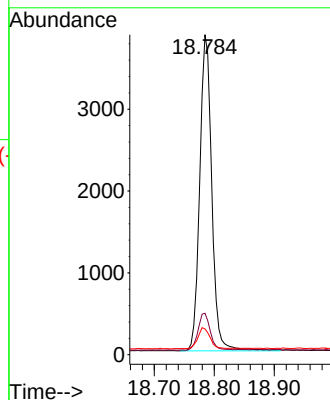
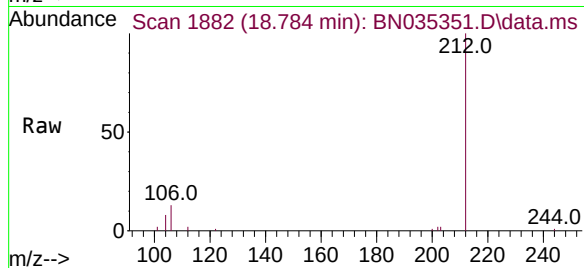
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

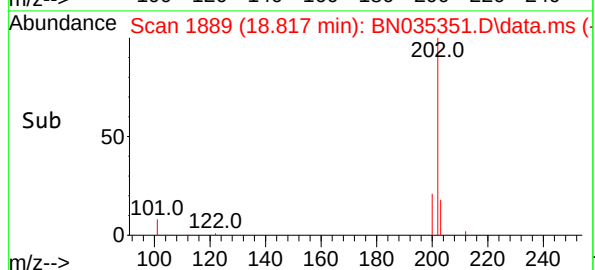
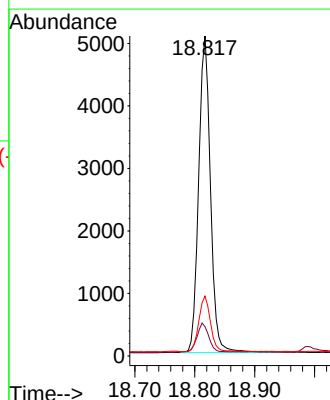
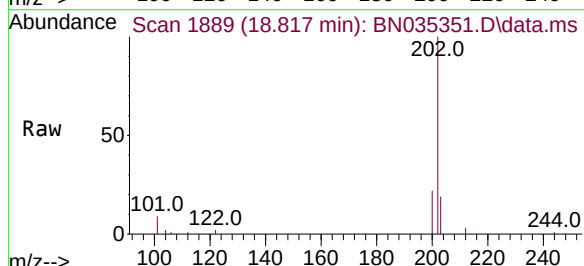
Manual Integrations
APPROVED

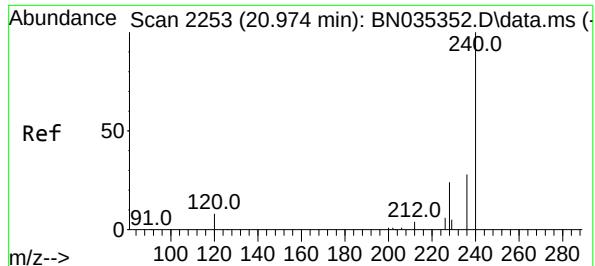
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

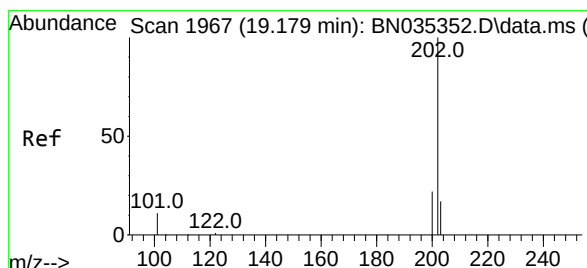
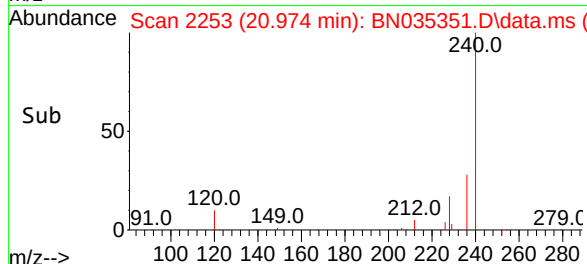
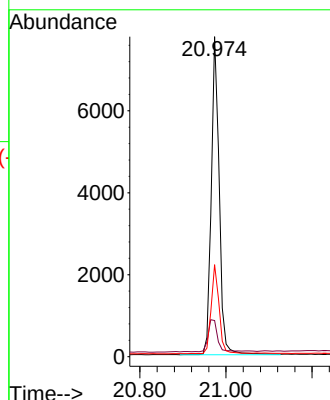
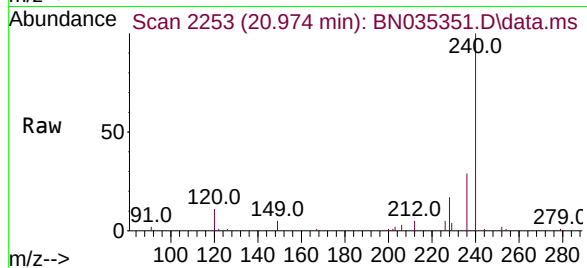
SSTDICC0.2

Tgt Ion:	240	Resp:	996
Ion Ratio	Lower	Upper	
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

Manual Integrations

APPROVED

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



#30

Pyrene

Concen: 0.217 ng

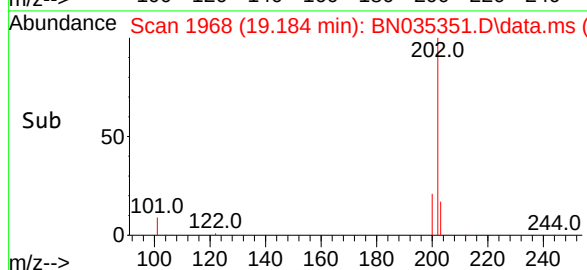
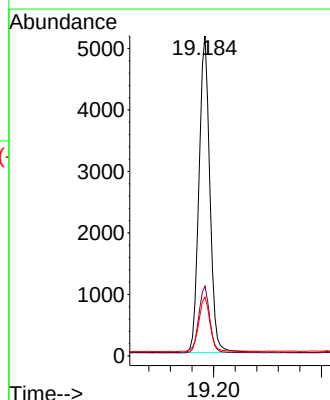
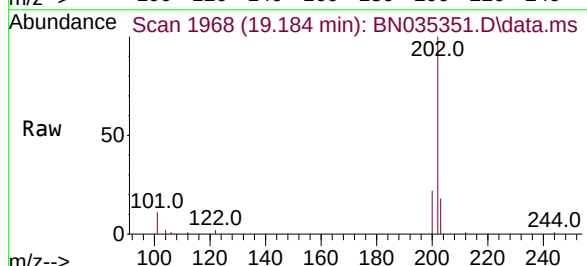
RT: 19.184 min Scan# 1968

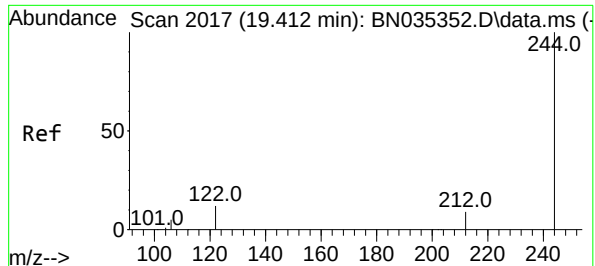
Delta R.T. 0.005 min

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# 2017
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

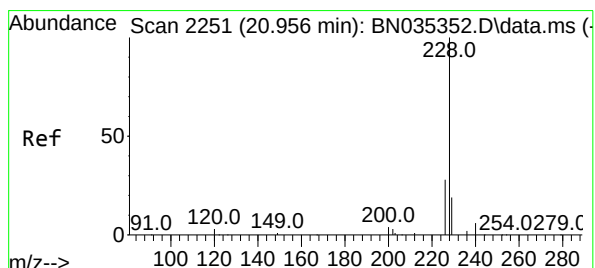
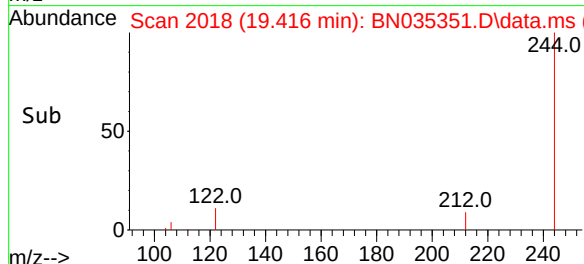
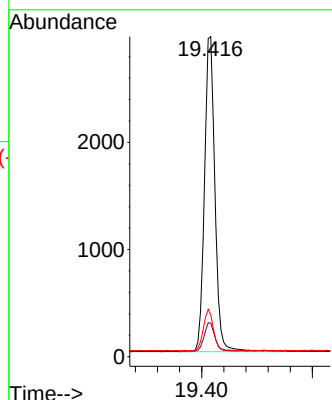
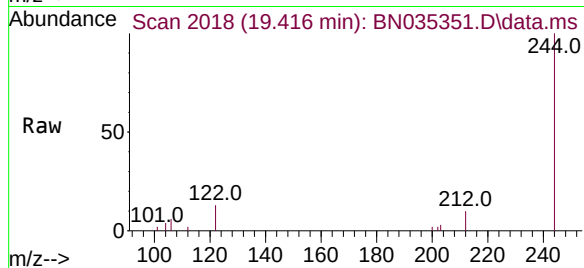
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

Manual Integrations

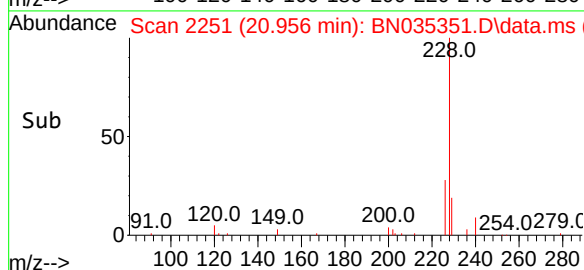
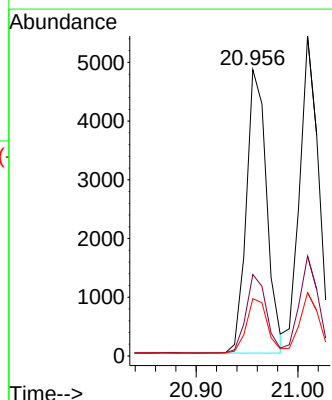
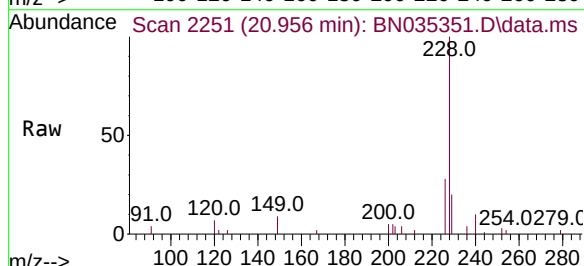
APPROVED

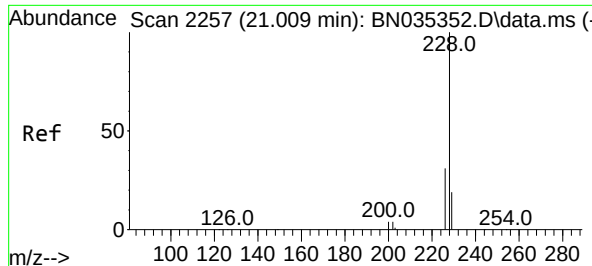
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	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# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

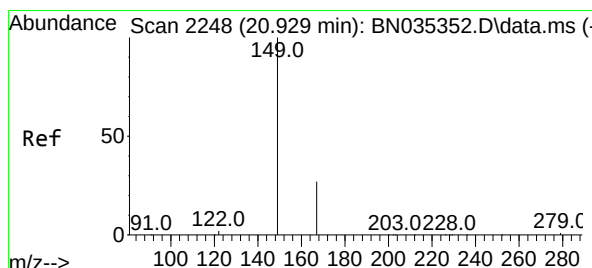
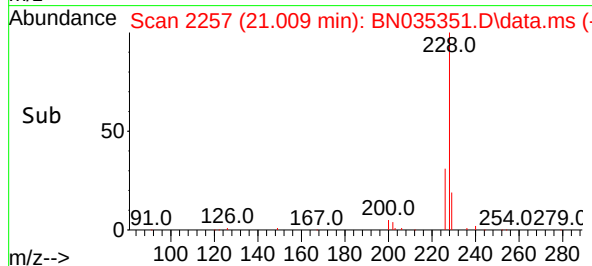
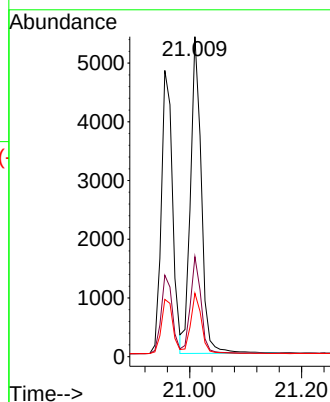
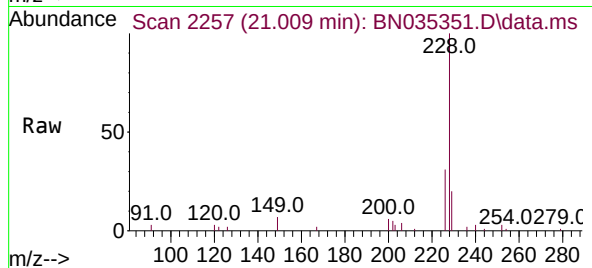
SSTDICC0.2

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

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

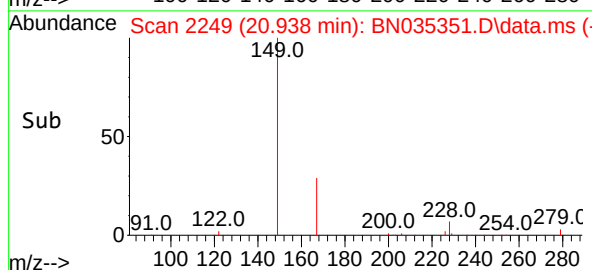
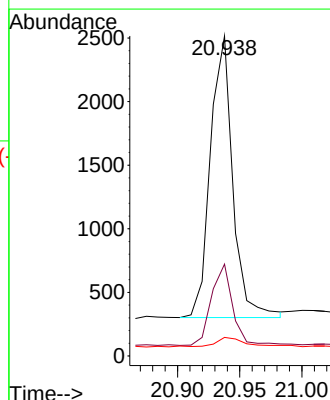
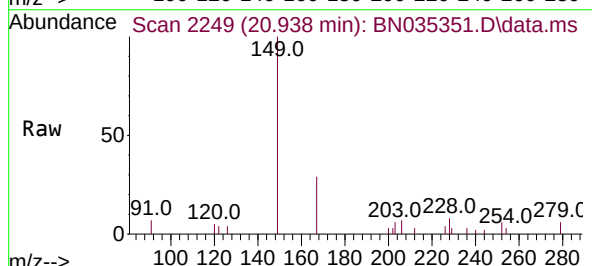
RT: 20.938 min Scan# 2249

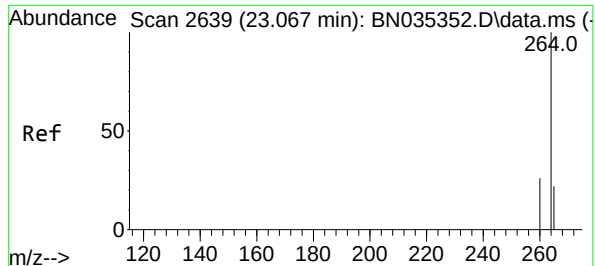
Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

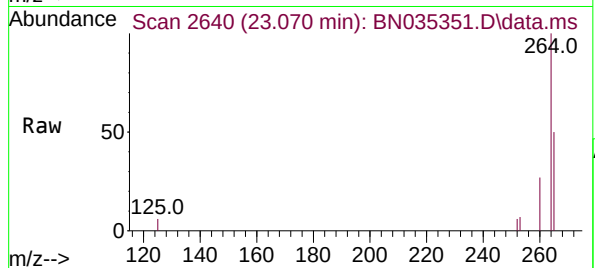
Tgt Ion:	149	Resp:	2779
Ion Ratio	Lower	Upper	
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

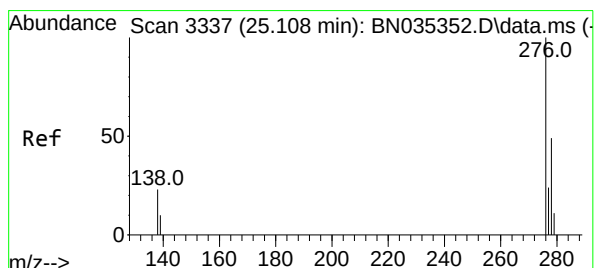
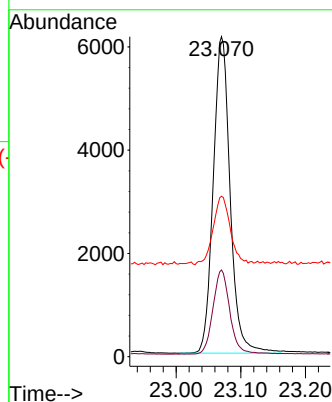
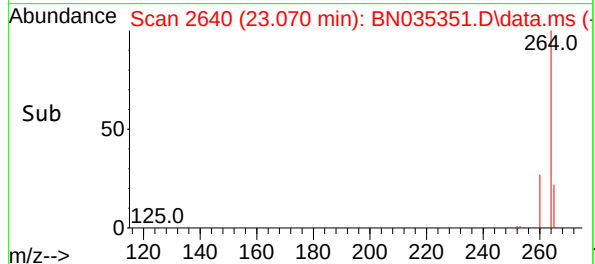
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

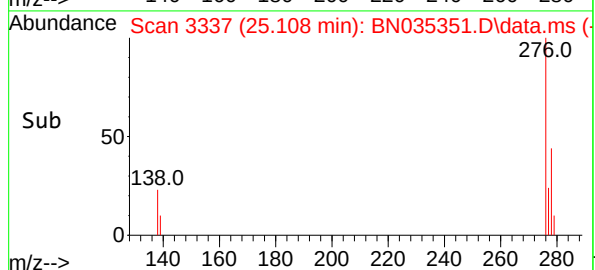
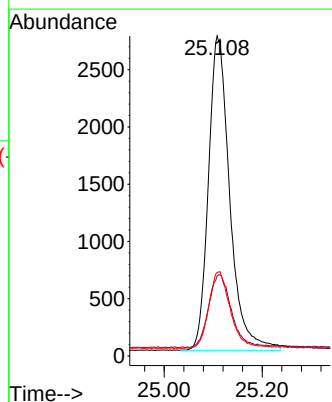
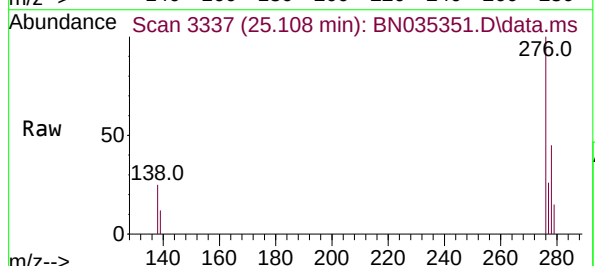
Manual Integrations
APPROVED

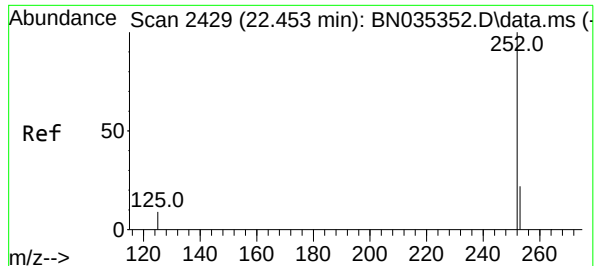
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 2429

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

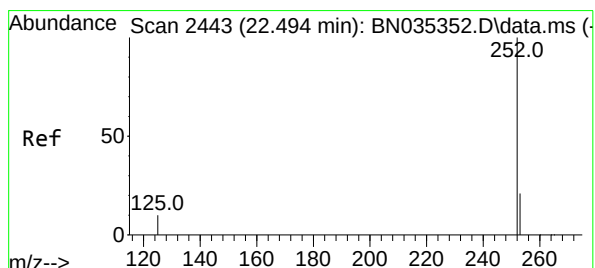
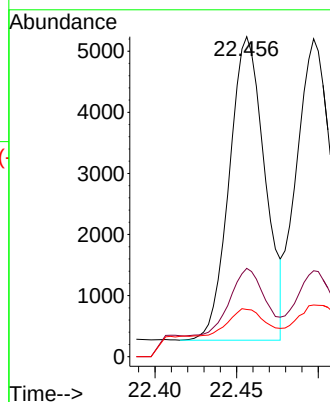
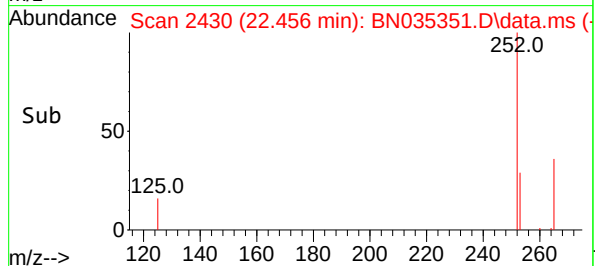
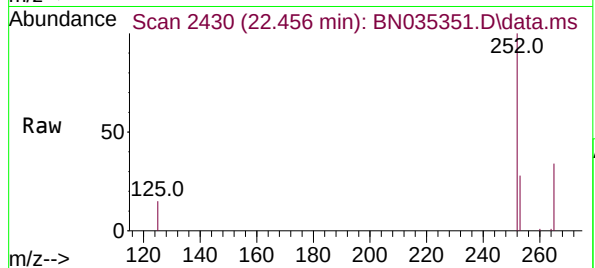
Tgt Ion:	252	Resp:	752
Ion Ratio	Lower	Upper	
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4

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

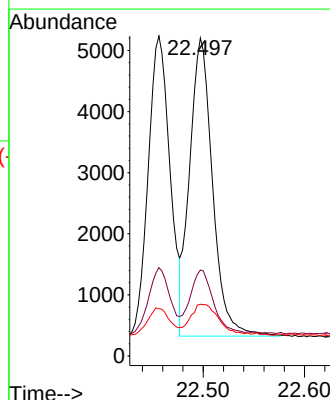
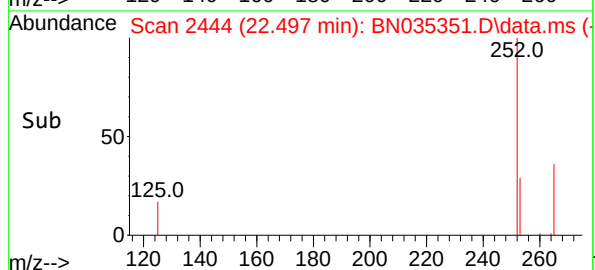
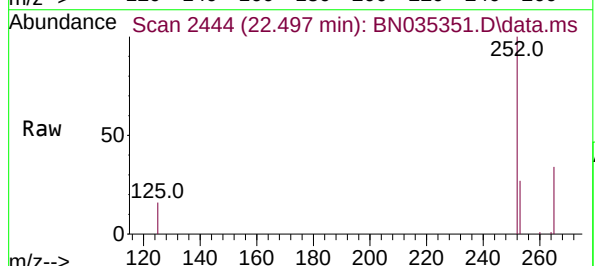
RT: 22.497 min Scan# 2444

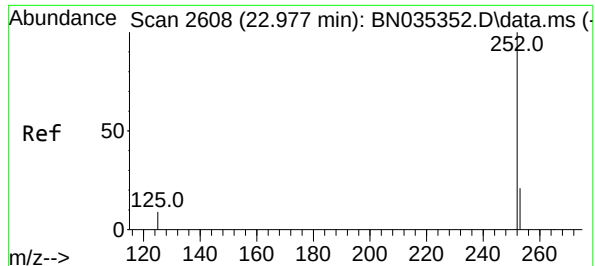
Delta R.T. 0.003 min

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# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

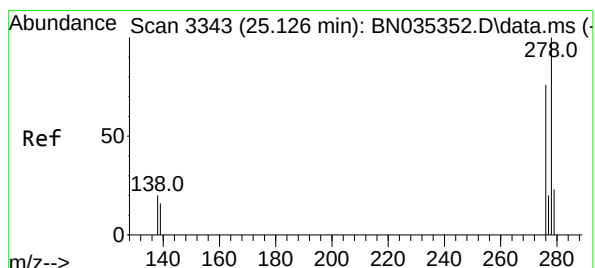
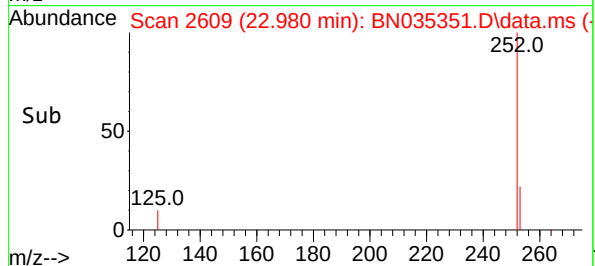
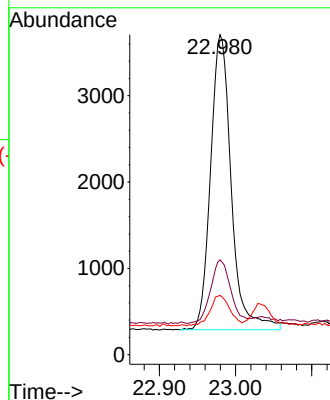
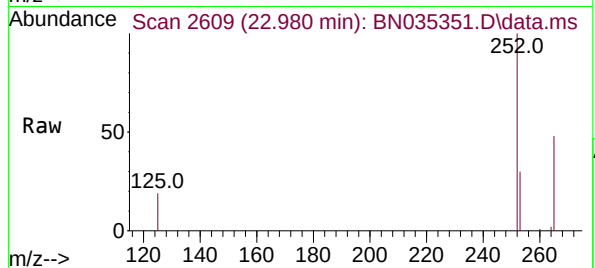
Tgt Ion:252	Resp:	6450
Ion Ratio	Lower	Upper
252	100	
253	29.7	20.2 30.4
125	18.5	10.9 16.3

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

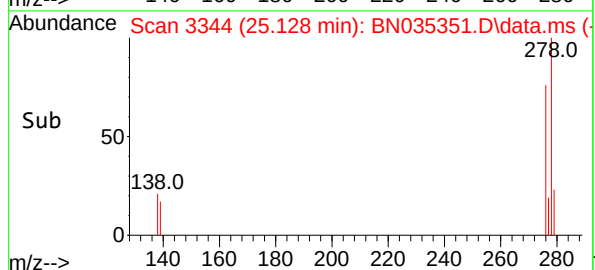
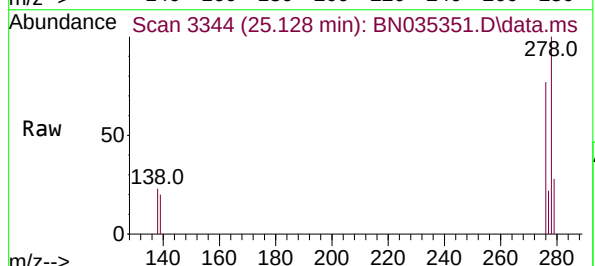
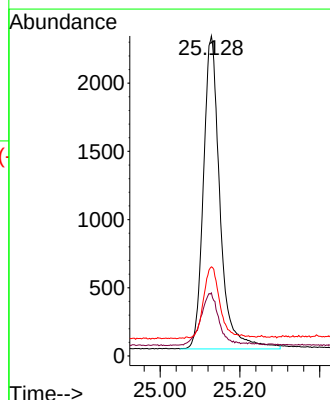
RT: 25.128 min Scan# 3344

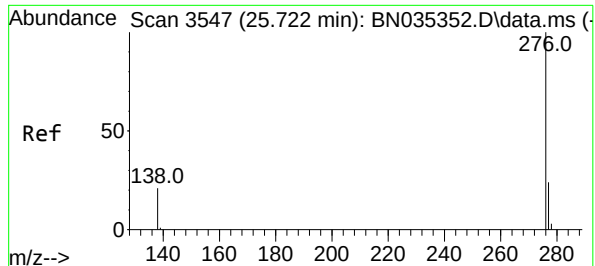
Delta R.T. 0.003 min

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

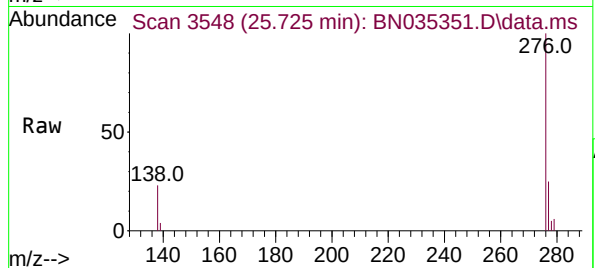
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

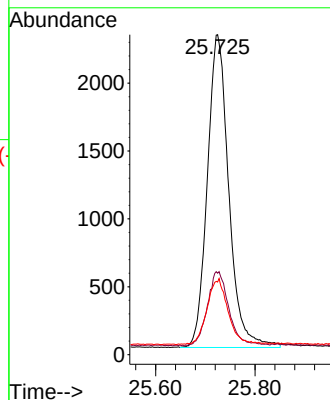
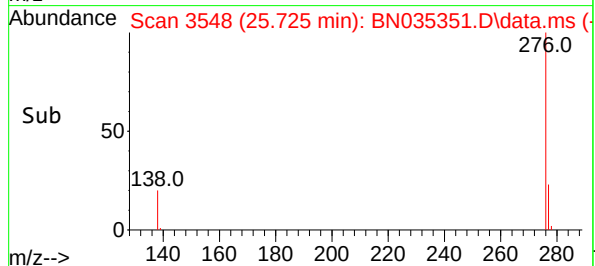
138 22.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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

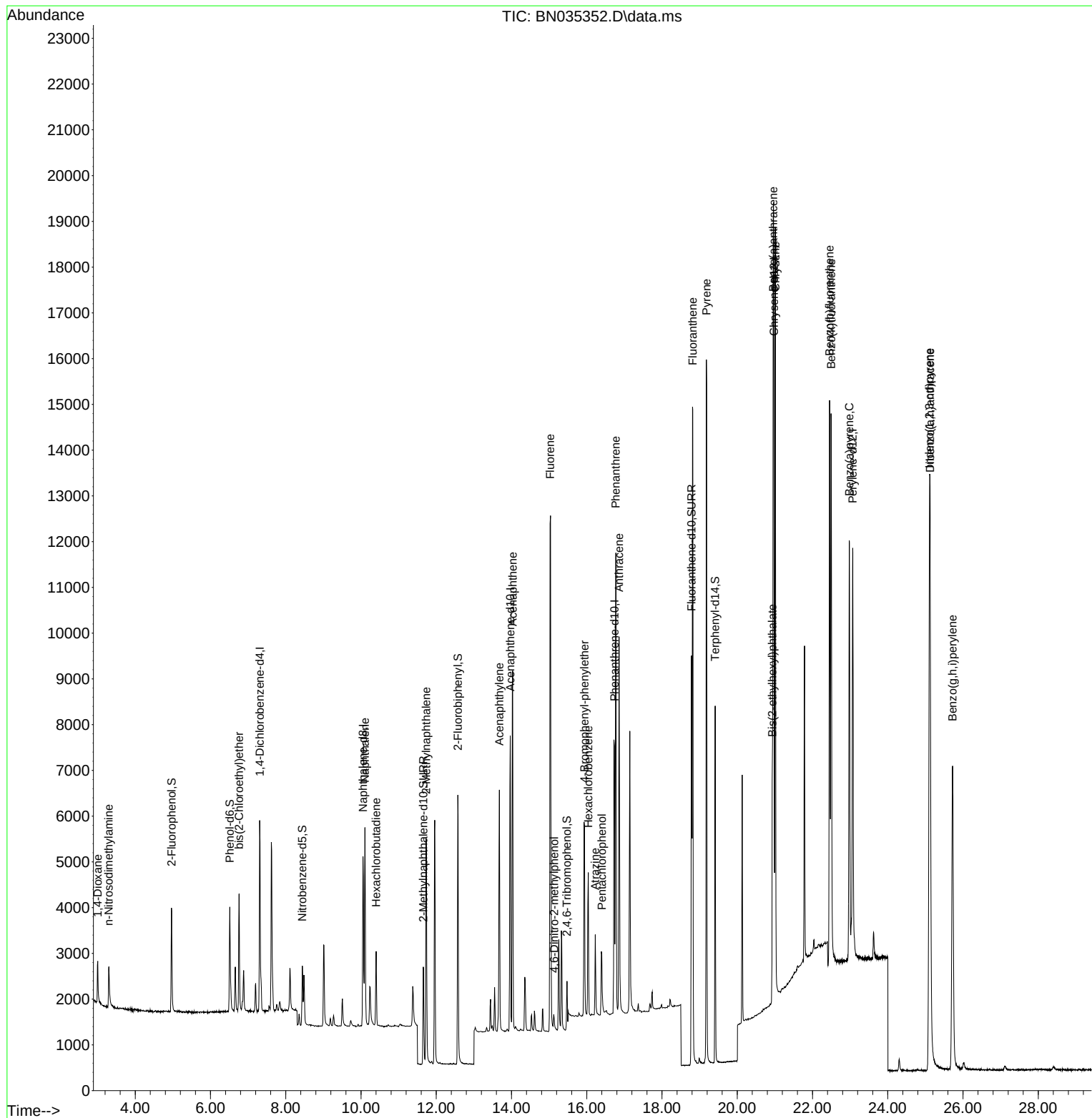
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035352.D
 Acq On : 27 Nov 2024 16:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

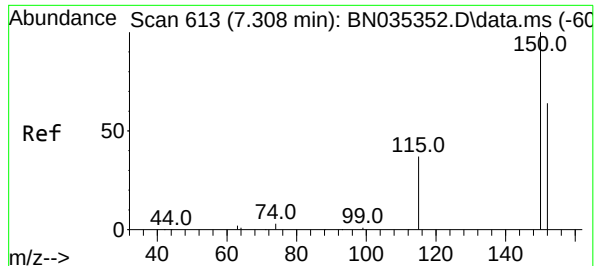
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations APPROVED

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

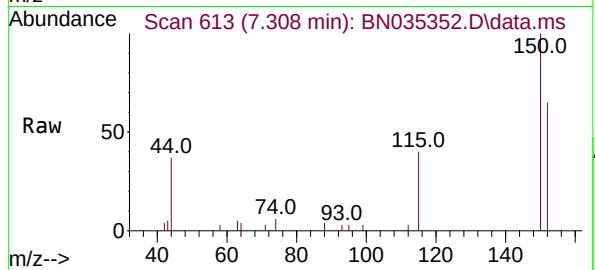
Quant Time: Nov 27 22:52:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

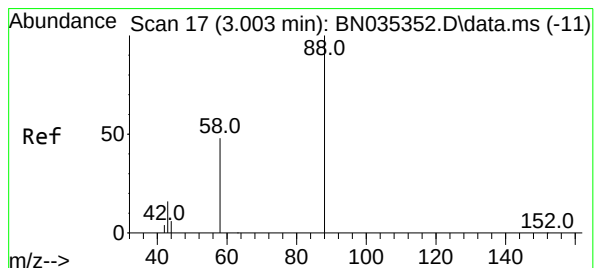
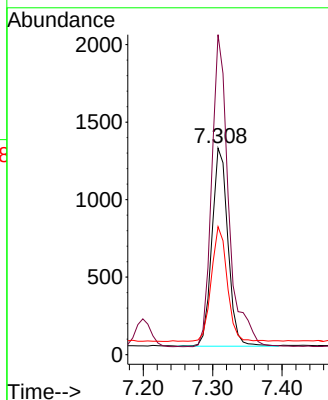
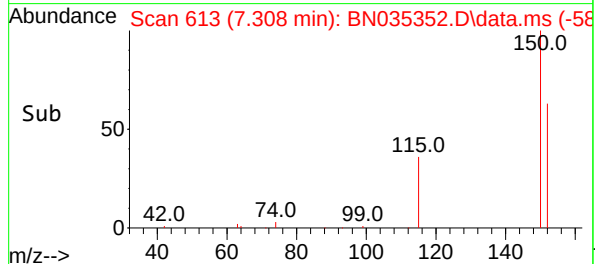
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

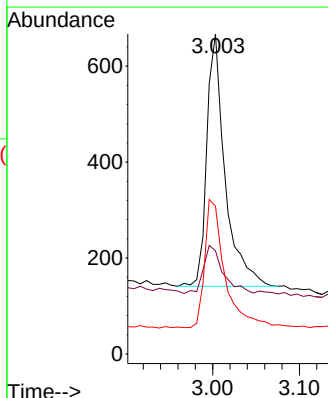
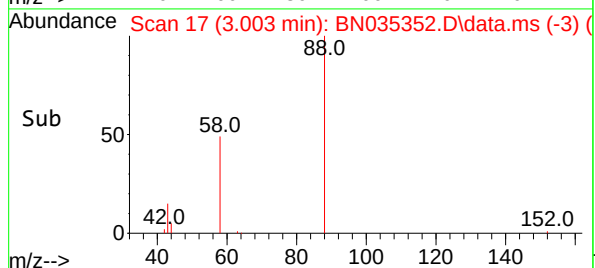
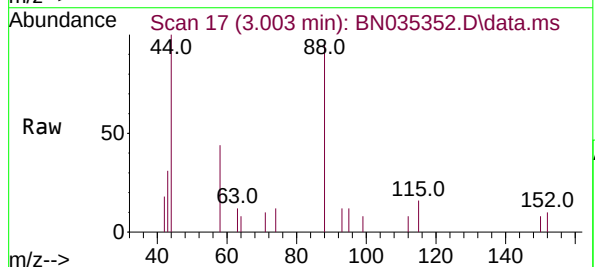
Manual Integrations
APPROVED

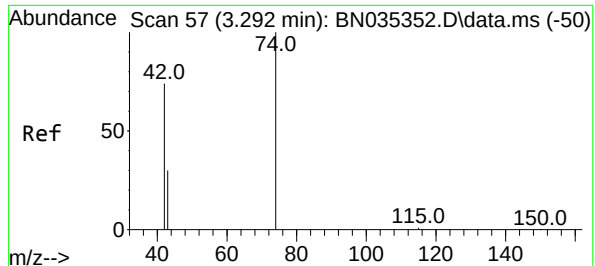
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





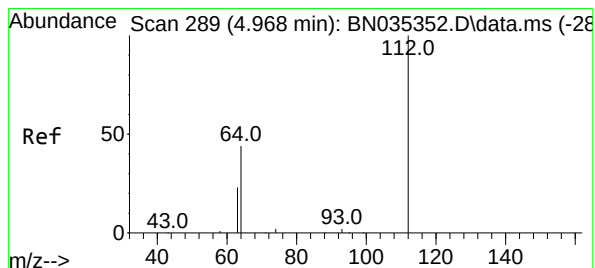
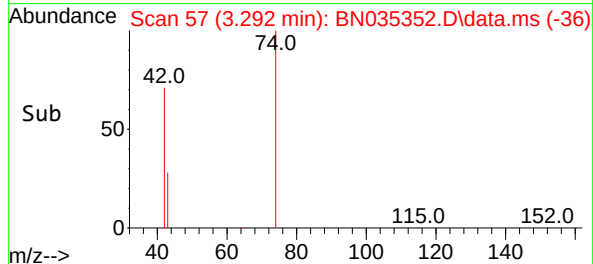
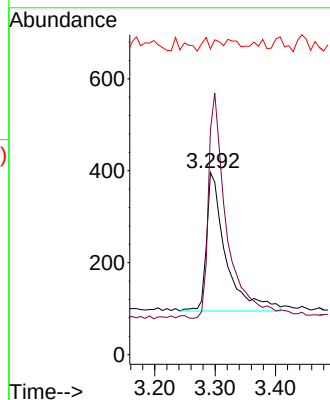
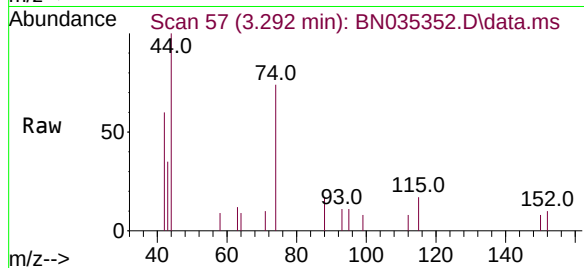
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

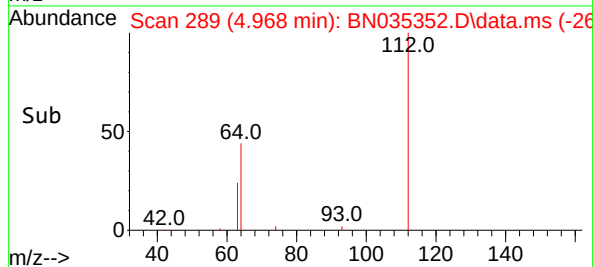
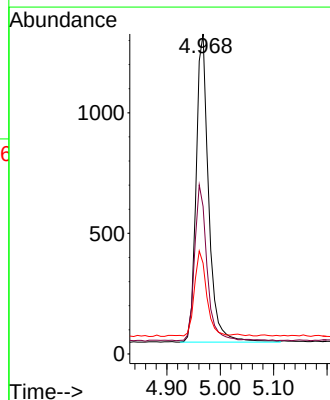
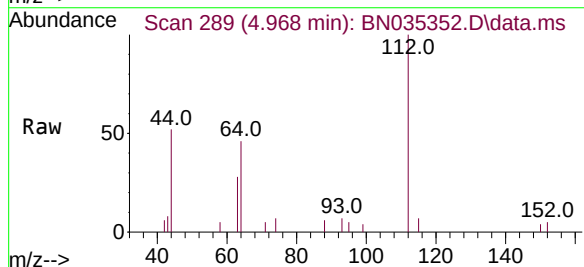
Manual Integrations
APPROVED

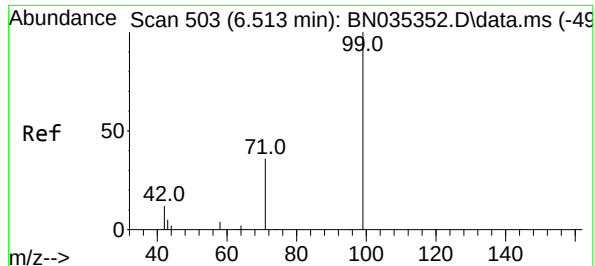
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

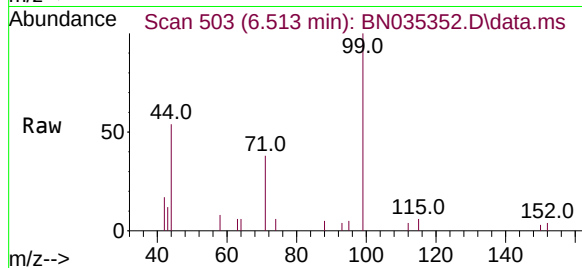
Tgt Ion:112 Resp: 2085
Ion Ratio Lower Upper
112 100
64 49.8 39.8 59.8
63 26.3 21.0 31.6





#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

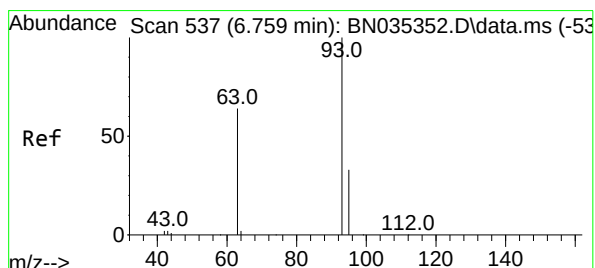
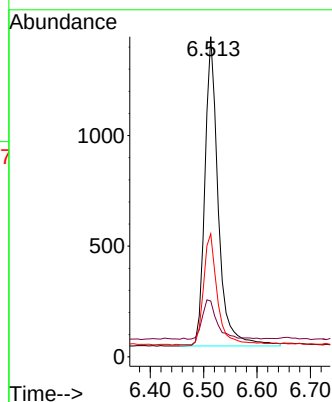
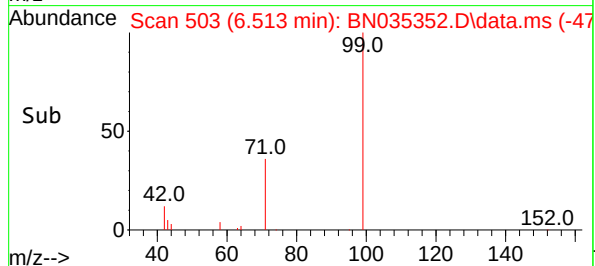
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 99 Resp: 244
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.6 29.3 43.9

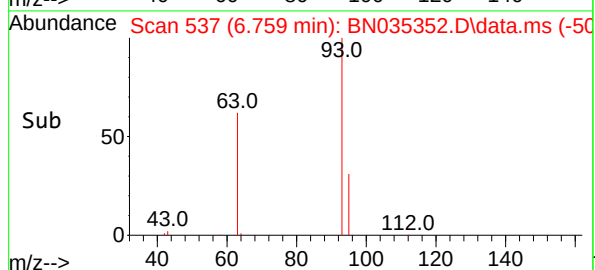
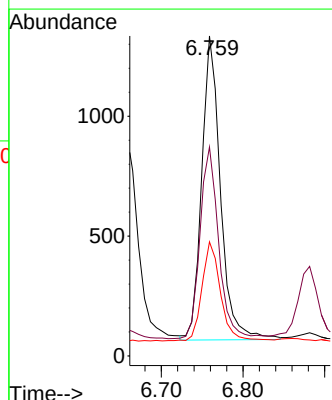
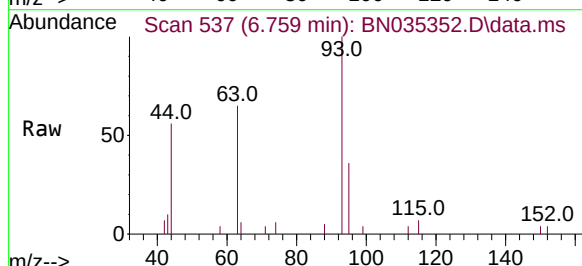
Manual Integrations
APPROVED

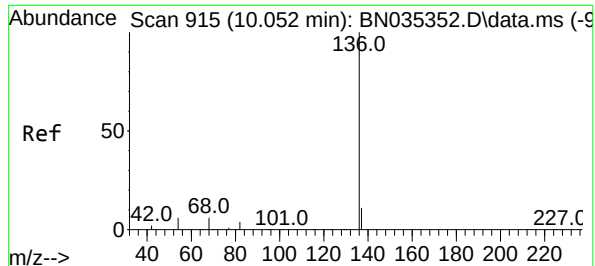
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





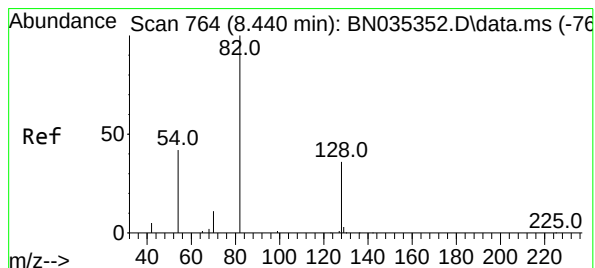
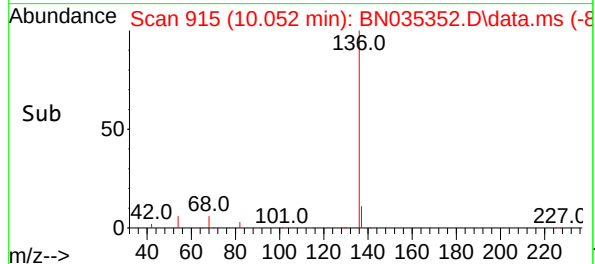
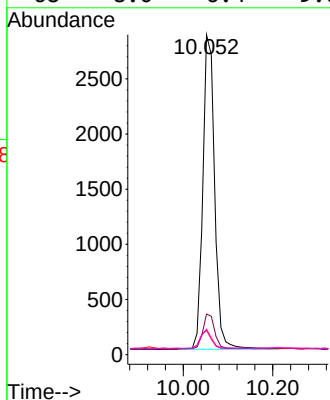
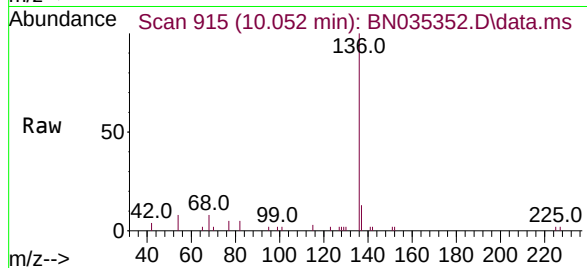
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt 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

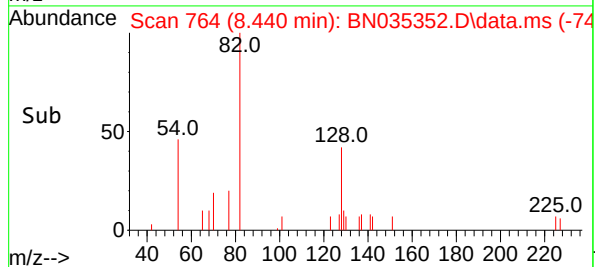
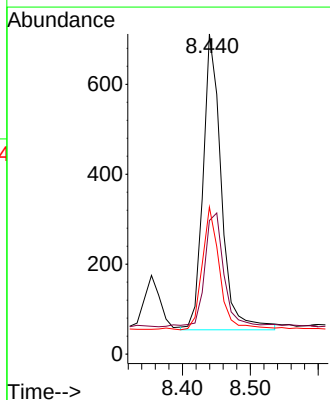
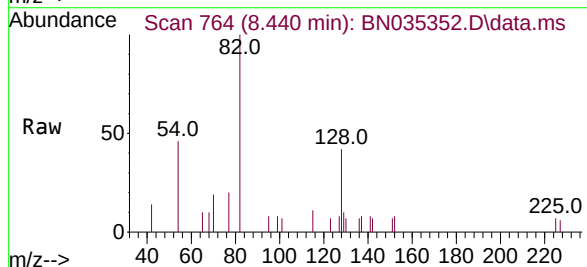
Manual Integrations
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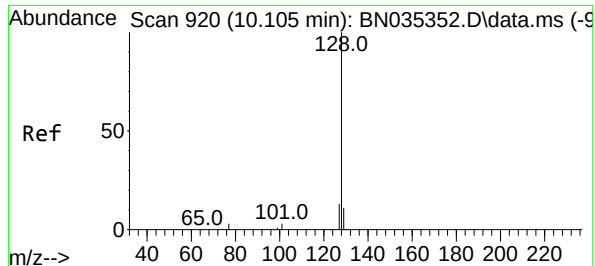
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1





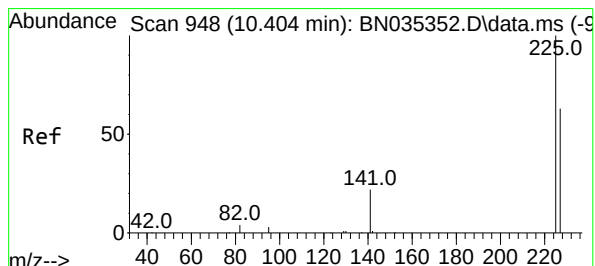
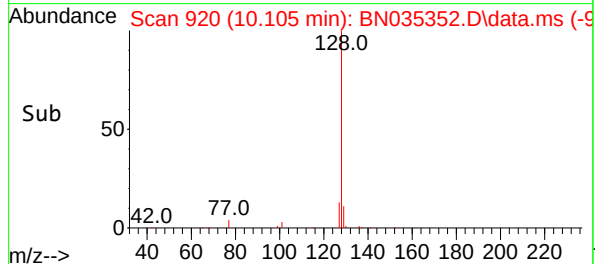
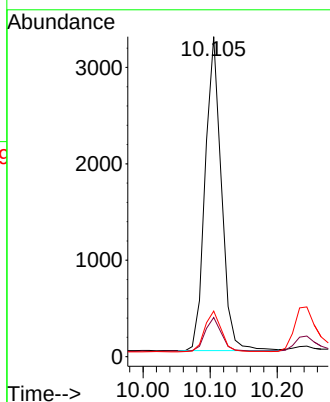
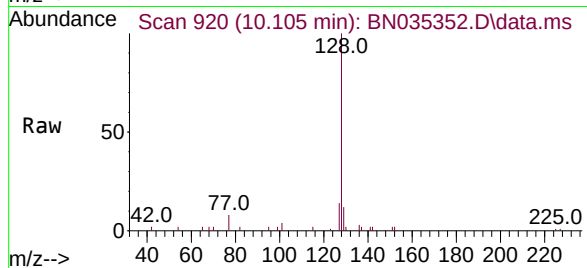
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 547
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2

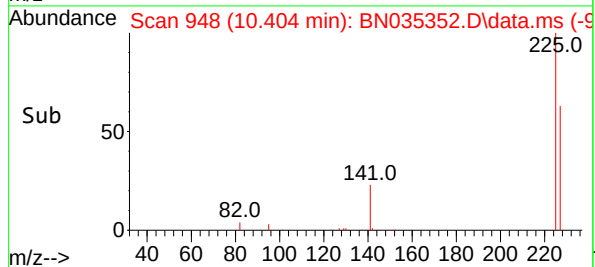
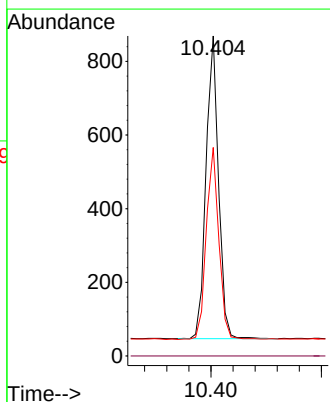
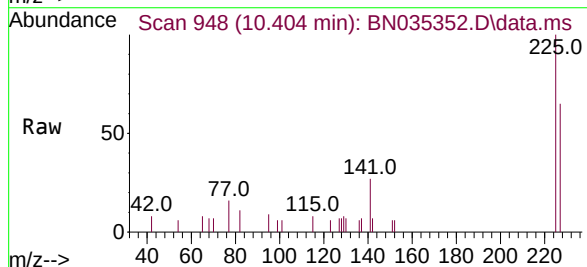
Manual Integrations
APPROVED

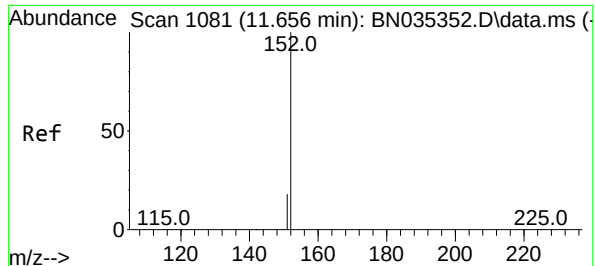
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





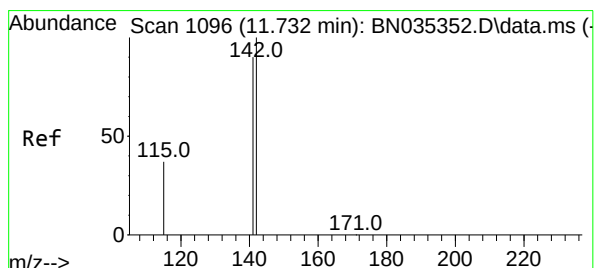
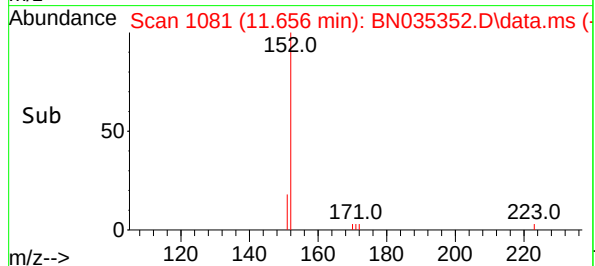
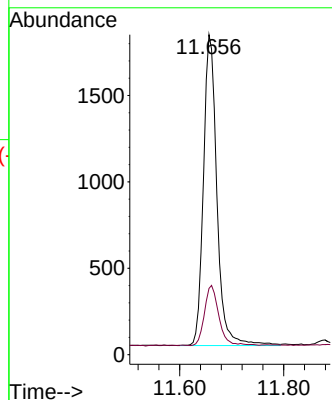
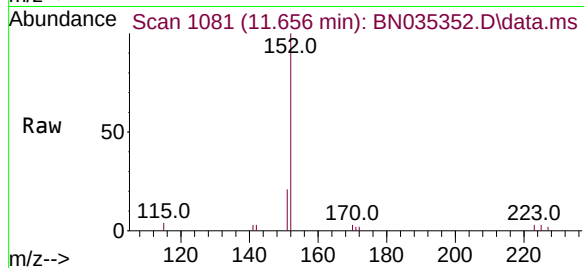
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 323
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

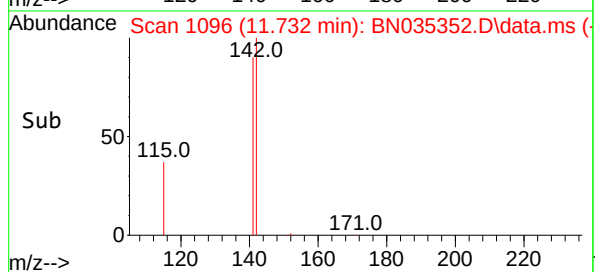
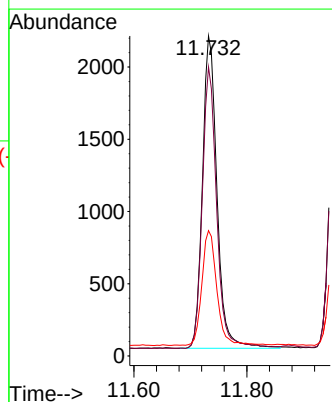
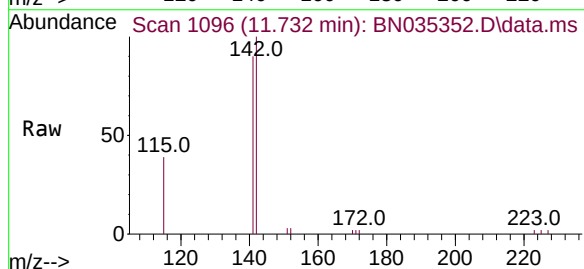
Manual Integrations
APPROVED

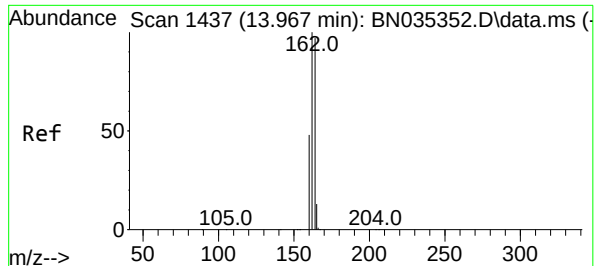
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

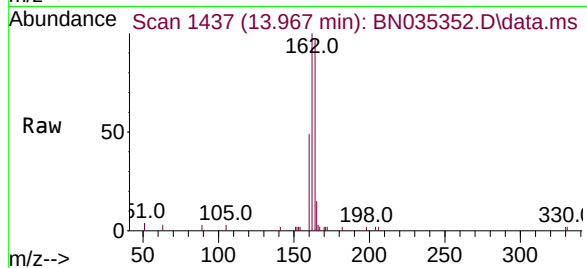
Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

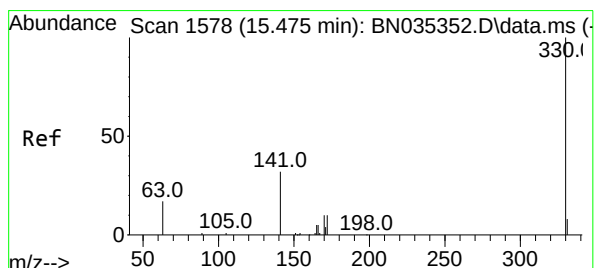
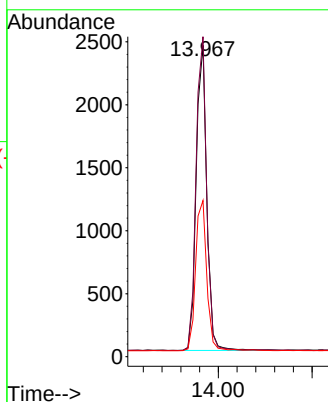
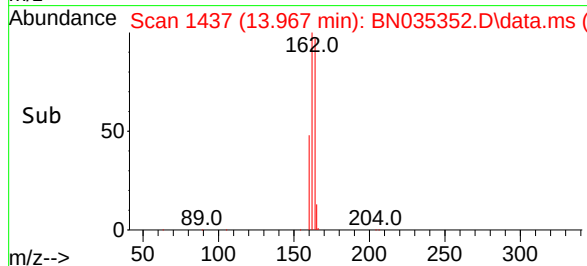
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

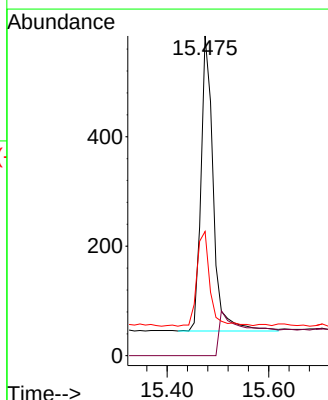
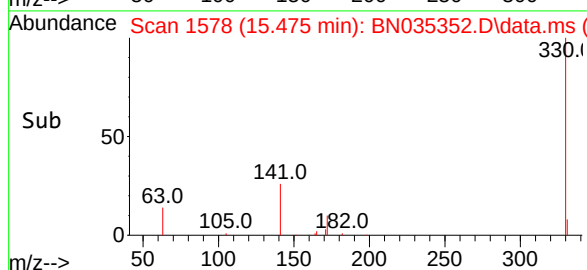
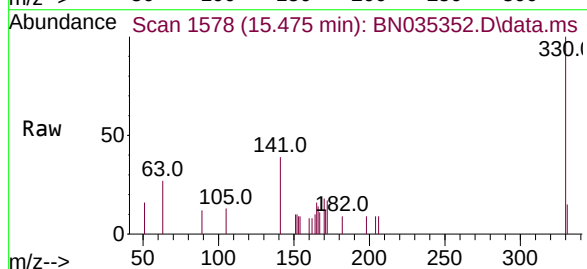
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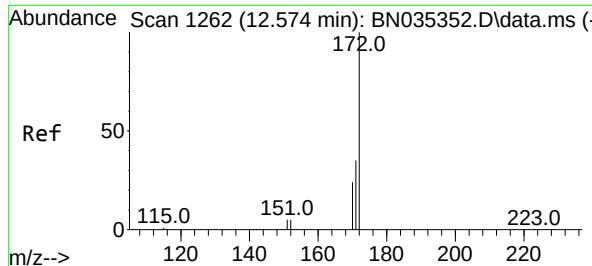
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1262

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: 573

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

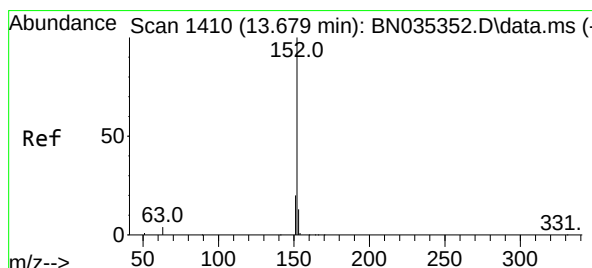
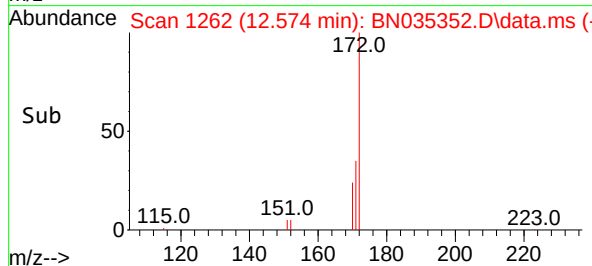
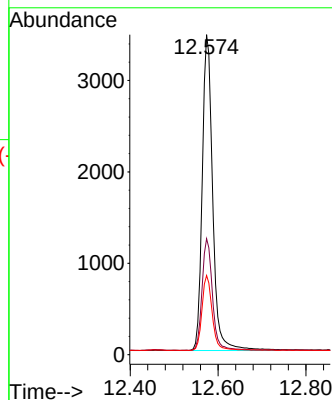
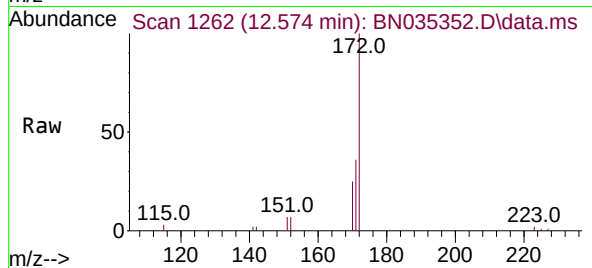
170 24.8 19.8 29.8

Manual Integrations

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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

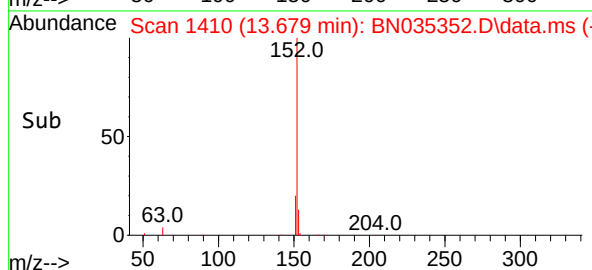
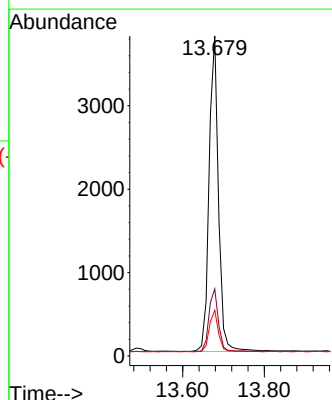
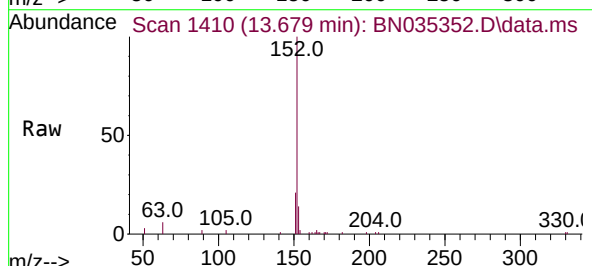
Tgt Ion:152 Resp: 6058

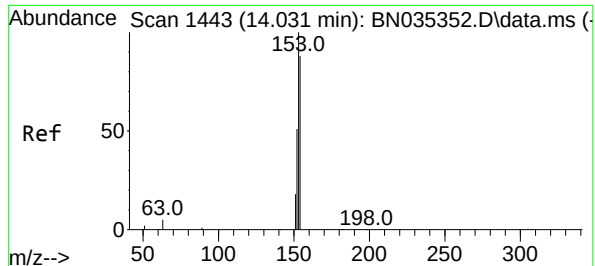
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.0 10.4 15.6





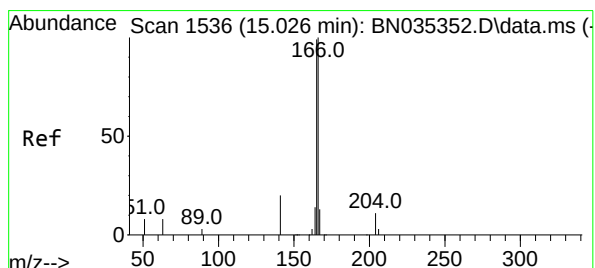
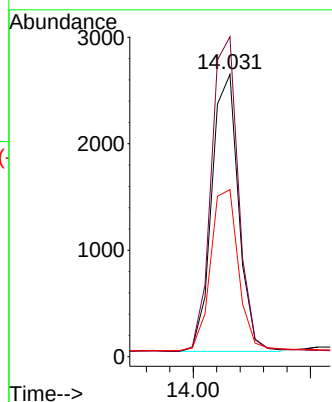
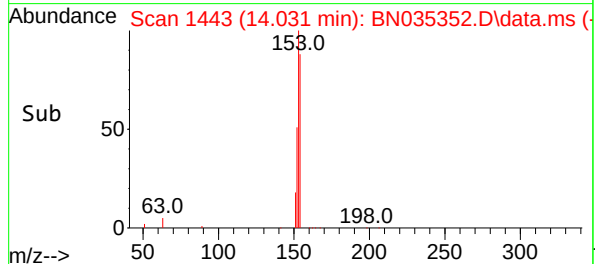
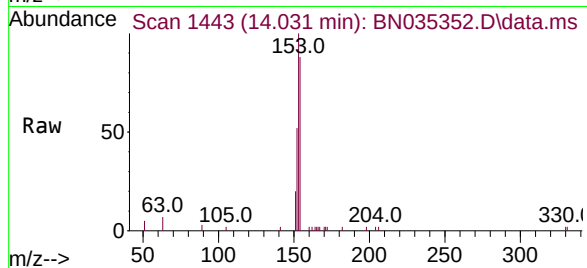
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

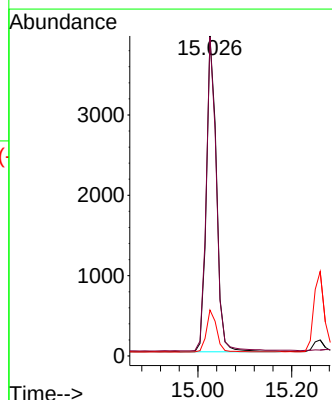
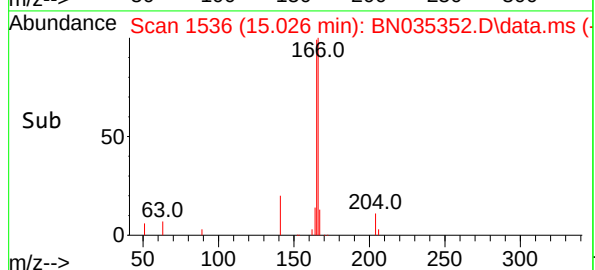
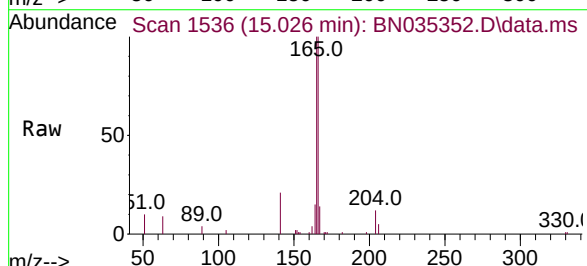
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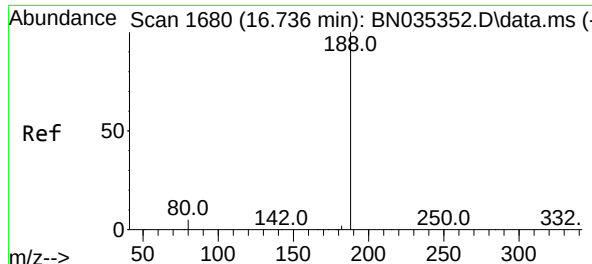
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

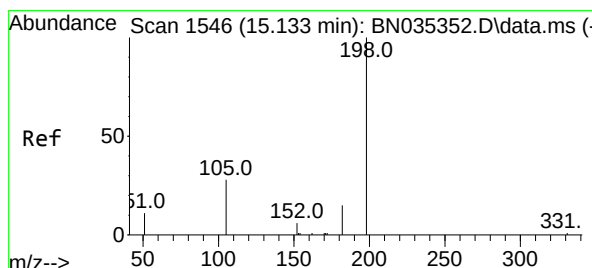
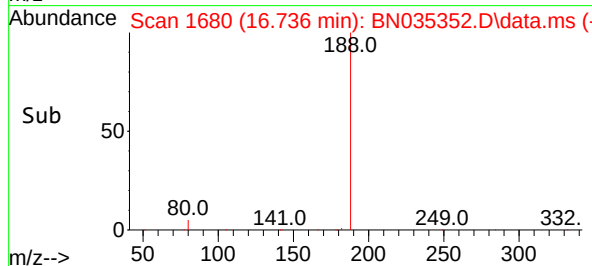
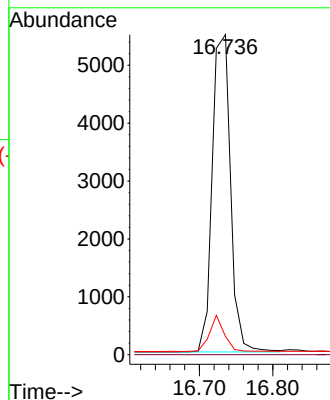
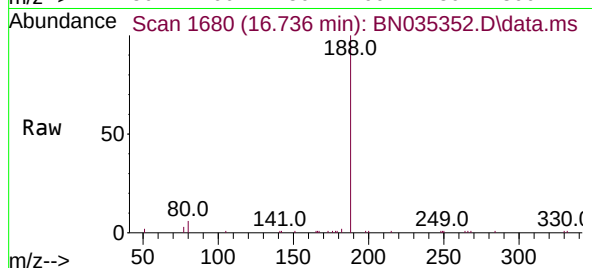
80 5.7 4.6 6.8

Manual Integrations

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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

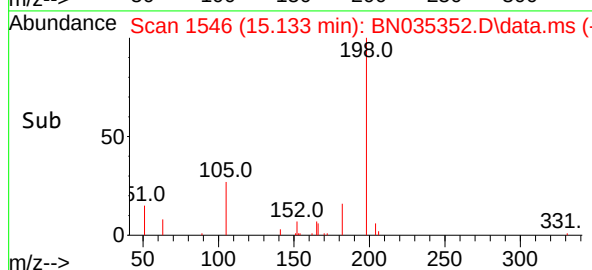
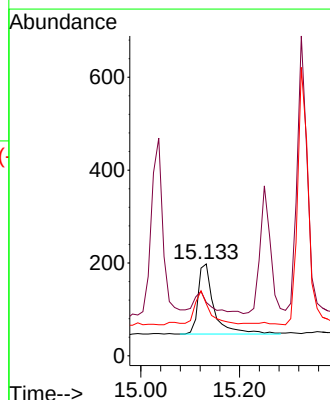
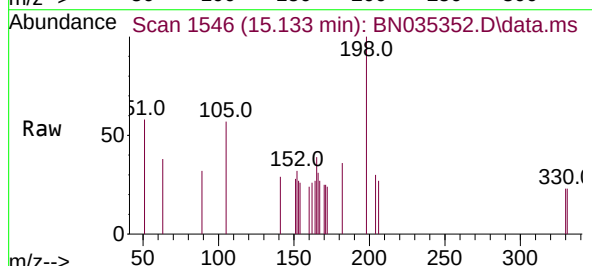
Tgt Ion:198 Resp: 337

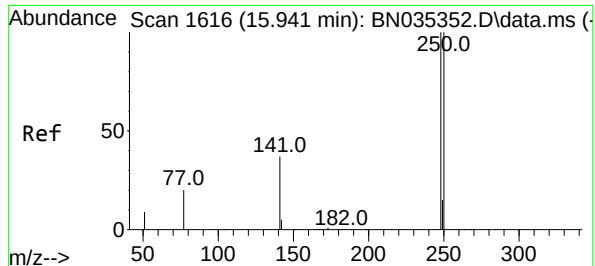
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9





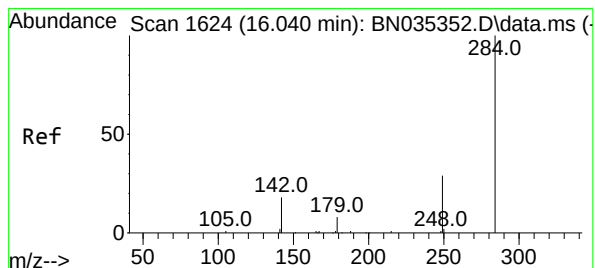
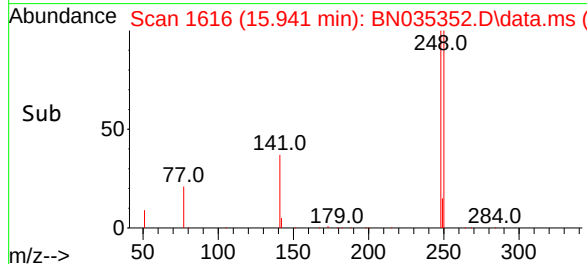
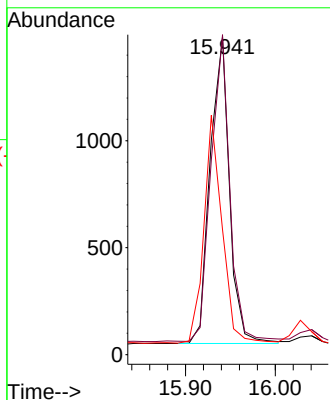
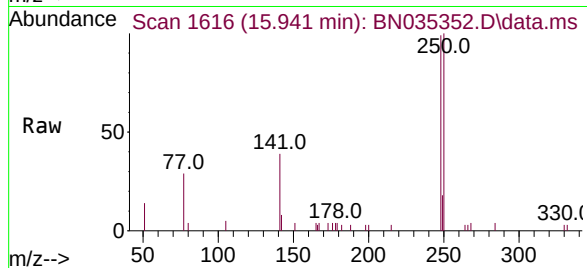
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2140
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3

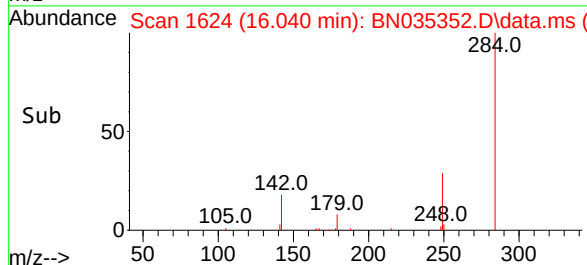
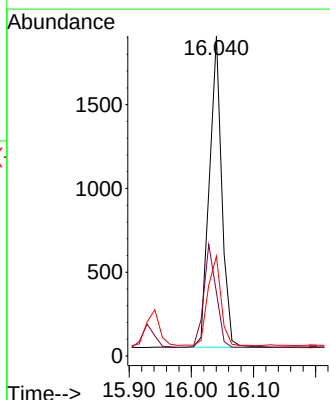
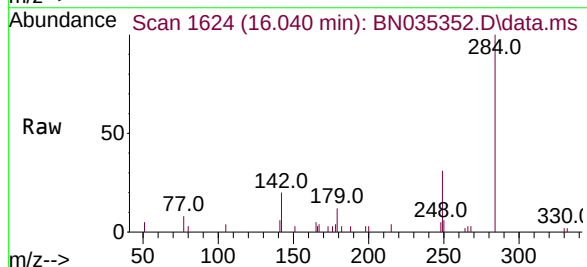
Manual Integrations
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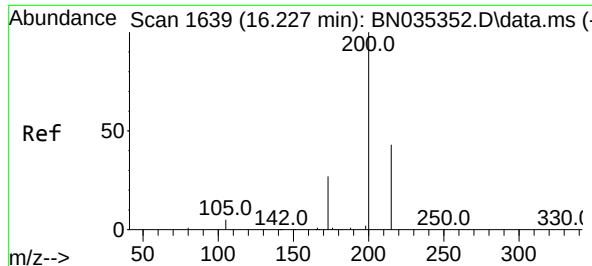
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

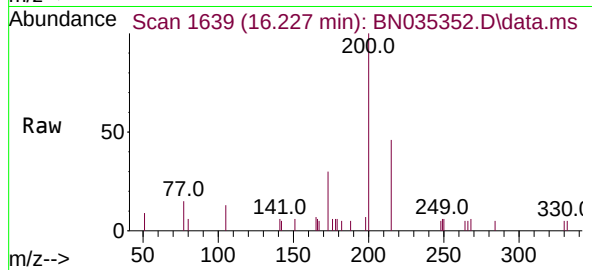
Tgt Ion:284 Resp: 2590
Ion Ratio Lower Upper
284 100
142 33.4 26.7 40.1
249 30.7 24.6 36.8





#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

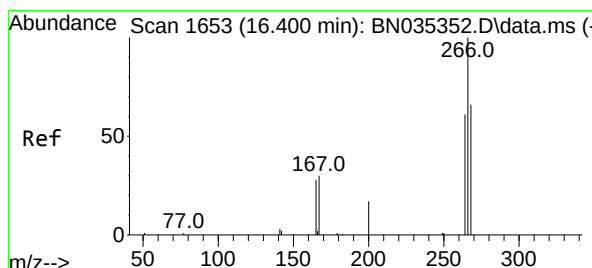
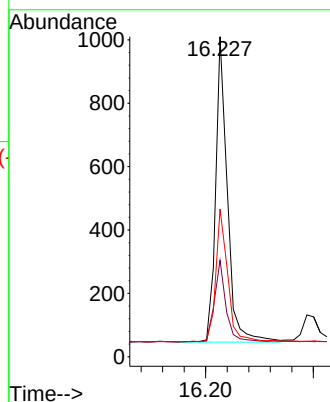
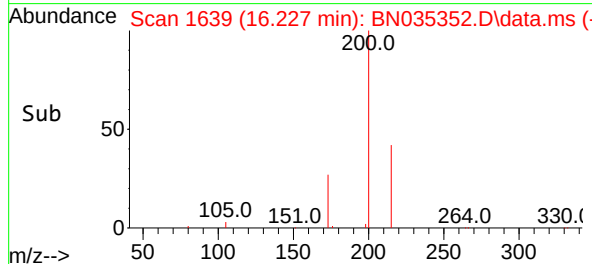
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:200 Resp: 146
Ion Ratio Lower Upper
200 100
173 30.1 24.1 36.1
215 46.1 36.9 55.3

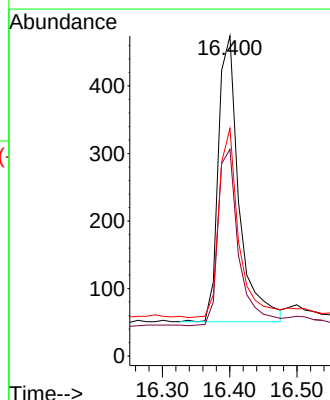
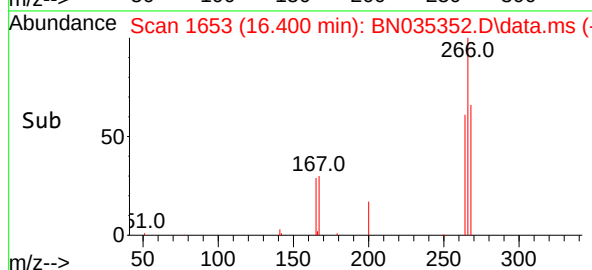
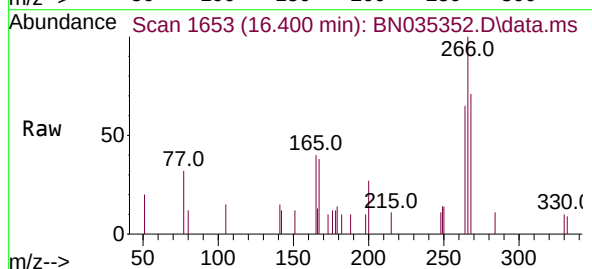
Manual Integrations
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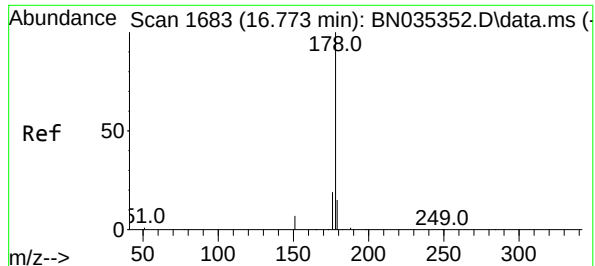
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





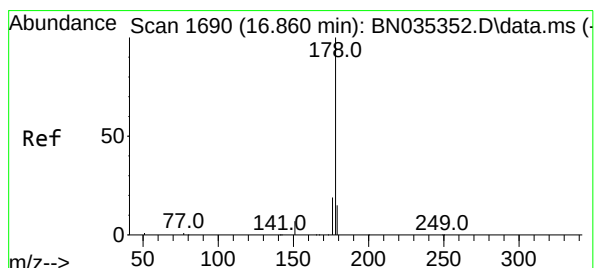
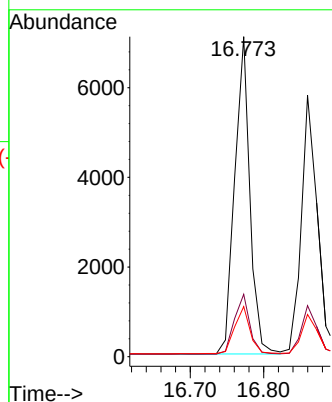
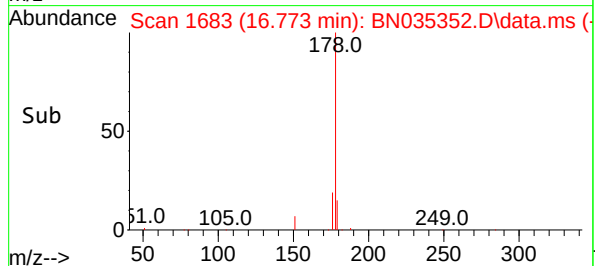
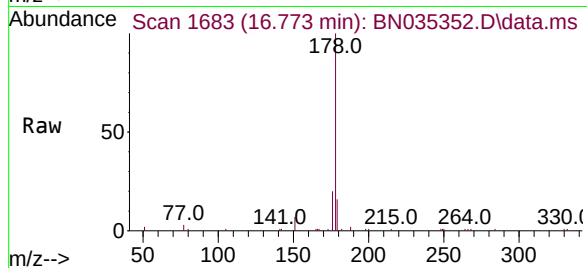
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 1012
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5

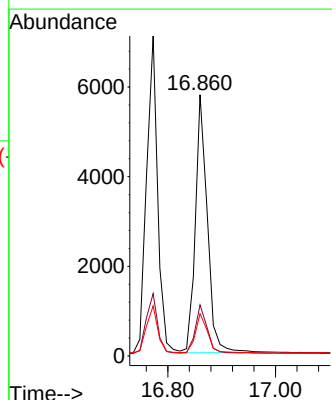
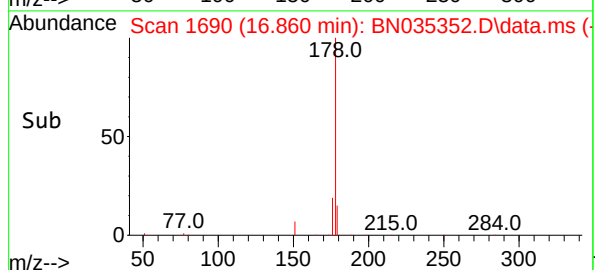
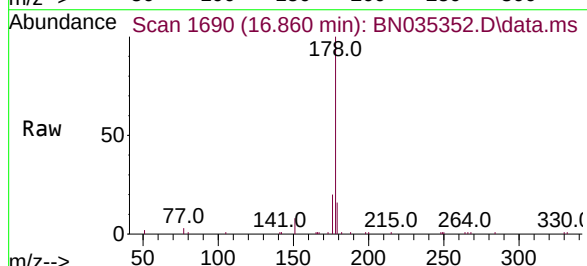
Manual Integrations
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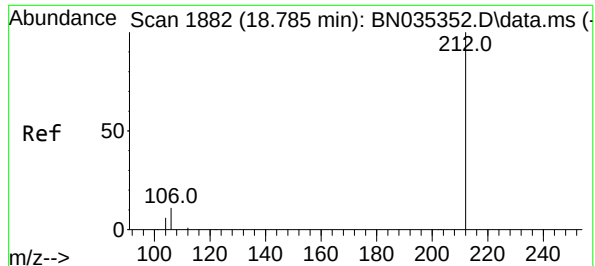
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1882

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

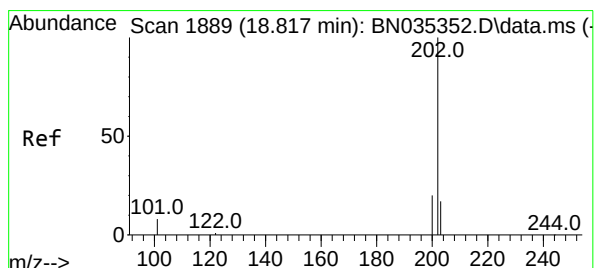
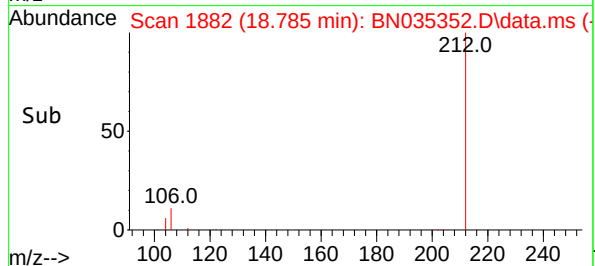
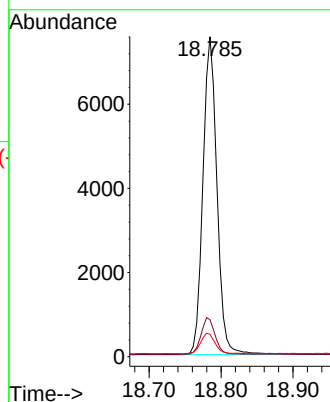
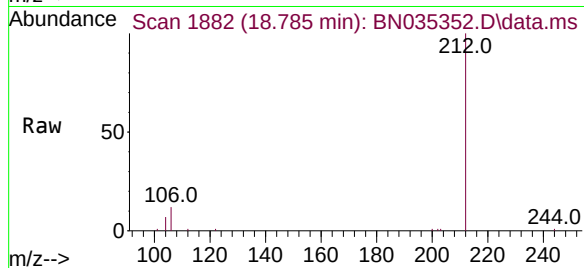
SSTDICCC0.4

Tgt Ion:	212	Resp:	1022
Ion Ratio	Lower	Upper	
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

Manual Integrations

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



#28

Fluoranthene

Concen: 0.391 ng

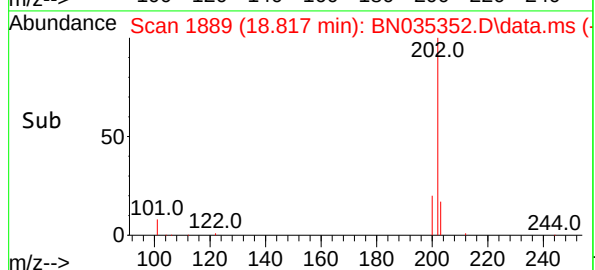
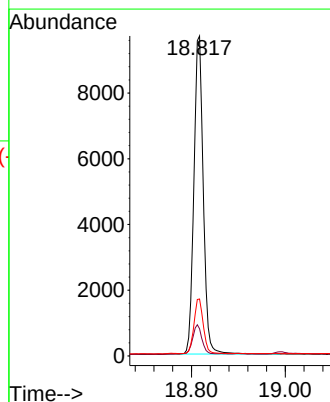
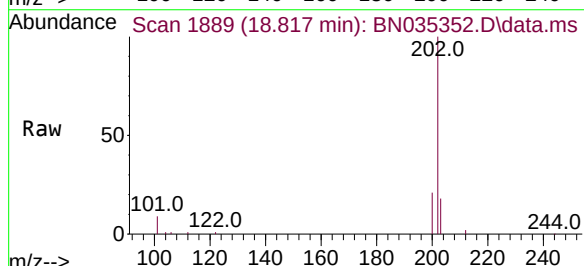
RT: 18.817 min Scan# 1889

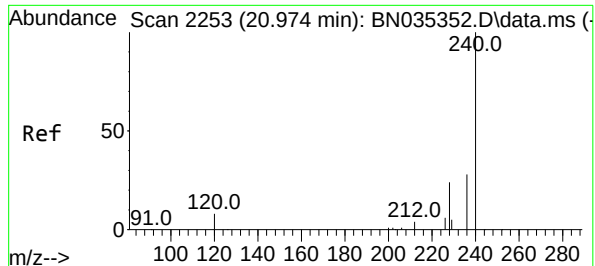
Delta R.T. 0.000 min

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# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

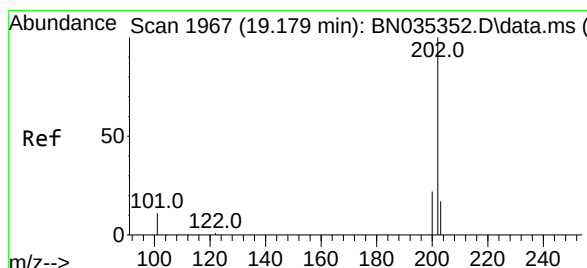
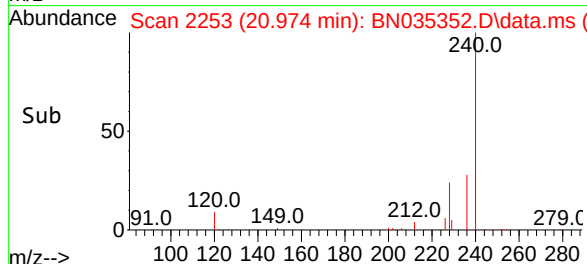
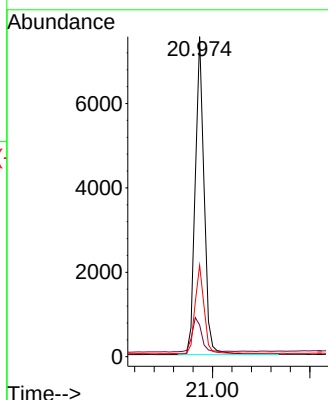
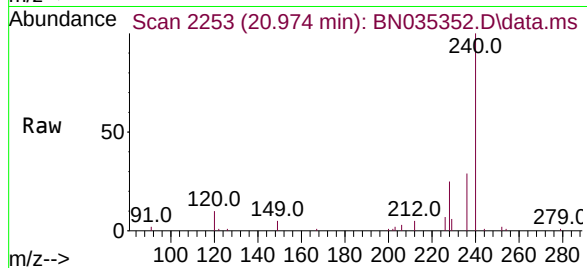
Tgt Ion:	240	Resp:	952
Ion Ratio	Lower	Upper	
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.443 ng

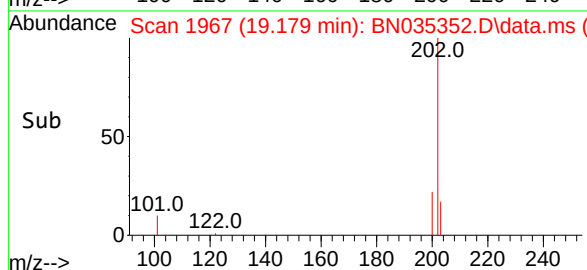
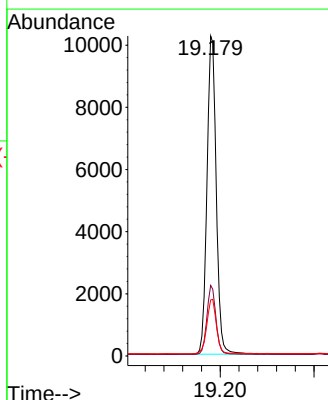
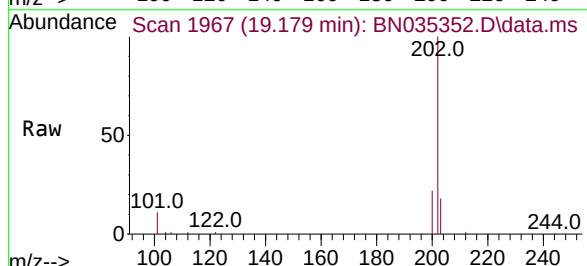
RT: 19.179 min Scan# 1967

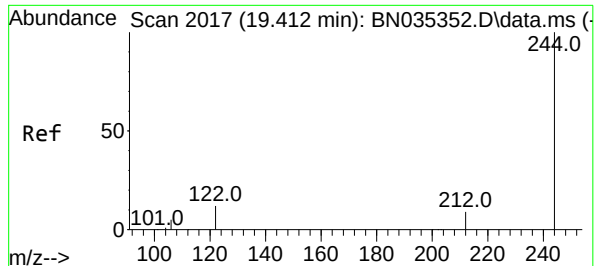
Delta R.T. 0.000 min

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# 2017
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

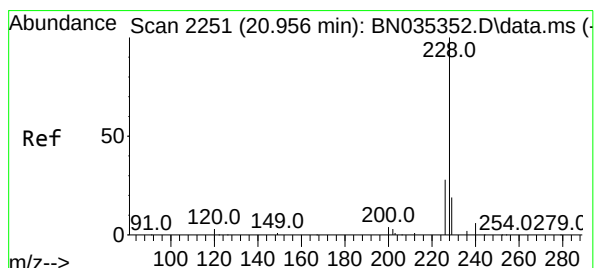
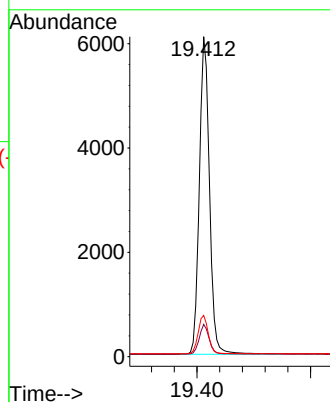
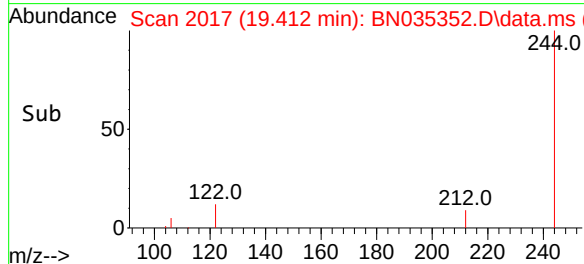
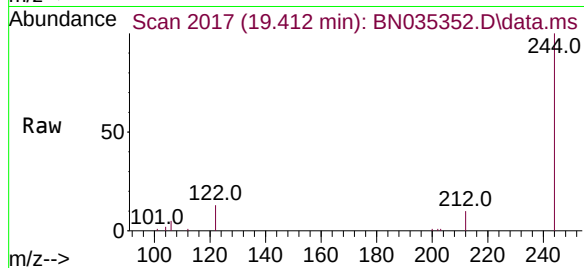
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

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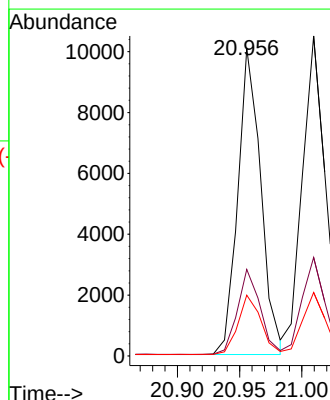
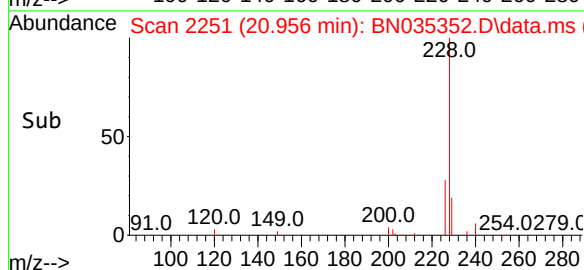
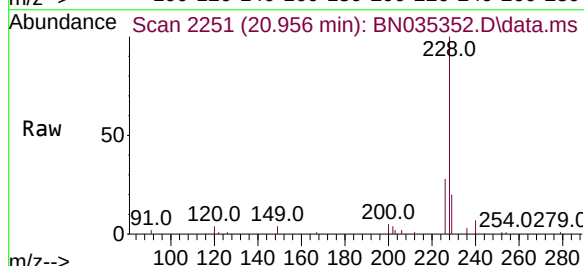
APPROVED

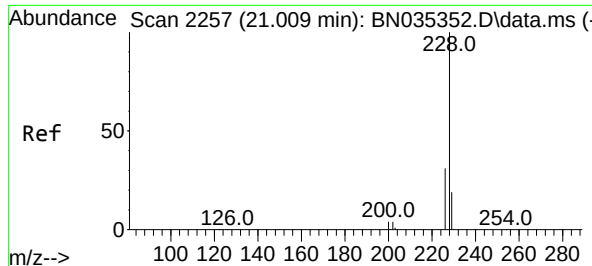
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	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# 21

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

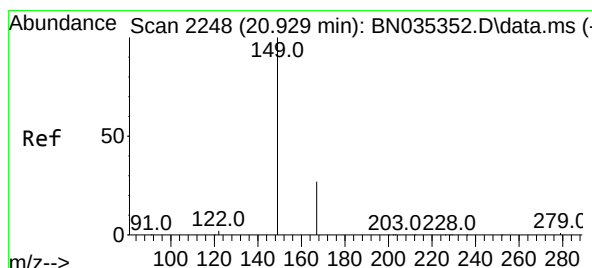
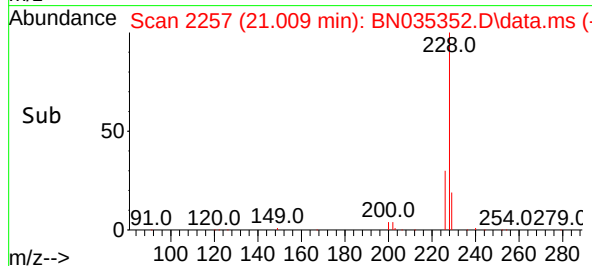
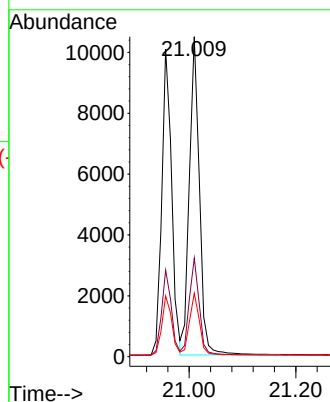
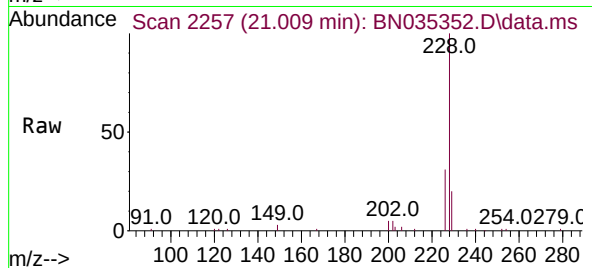
229 19.9 15.9 23.9

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

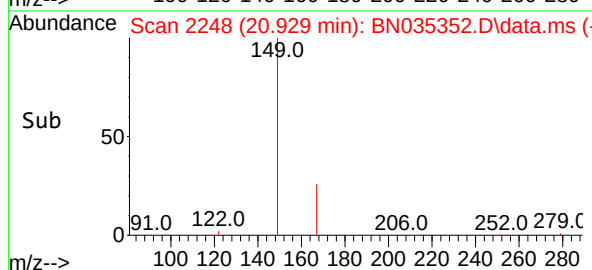
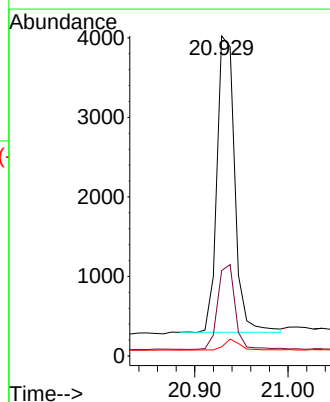
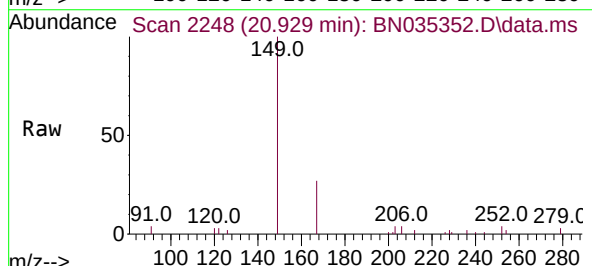
Tgt Ion:149 Resp: 4912

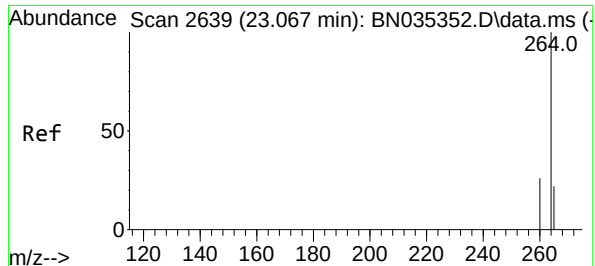
Ion Ratio Lower Upper

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# 2639

Delta R.T. 0.000 min

Lab File: BN035352.D

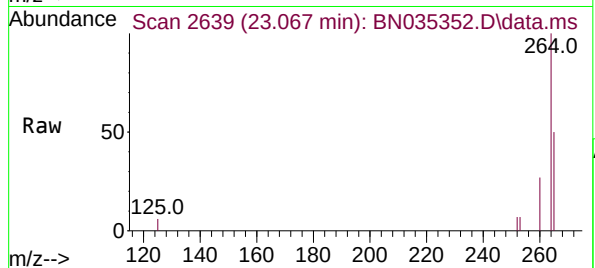
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:264 Resp: 1084

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

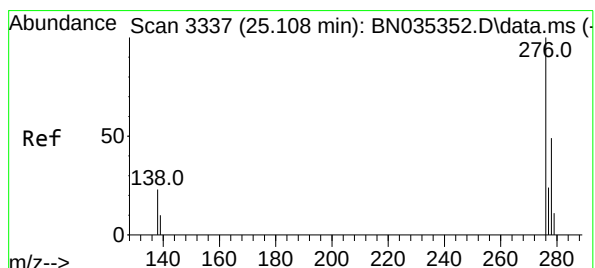
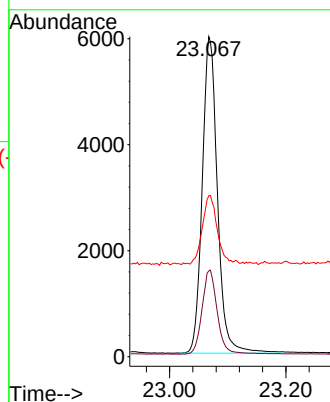
265 50.3 40.2 60.4

Manual Integrations

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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

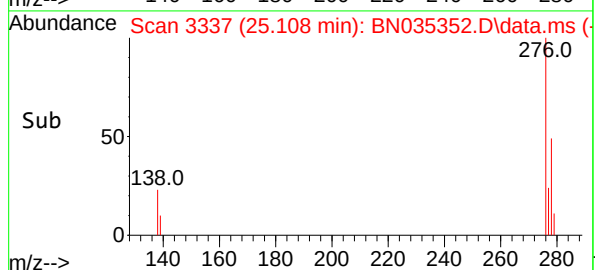
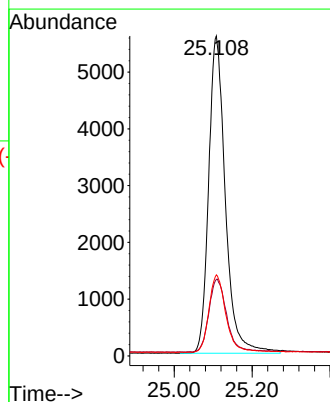
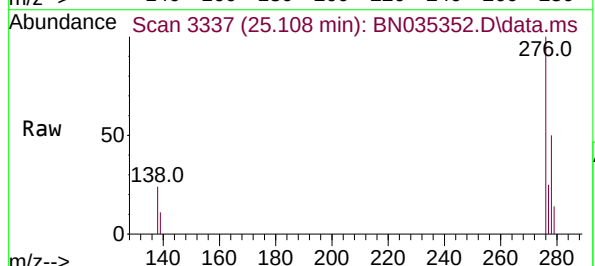
Tgt Ion:276 Resp: 16615

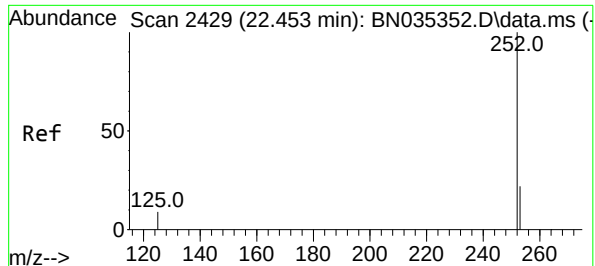
Ion Ratio Lower Upper

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# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

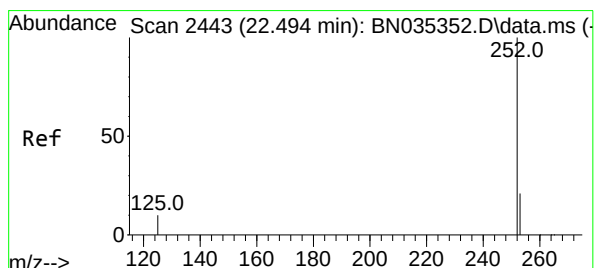
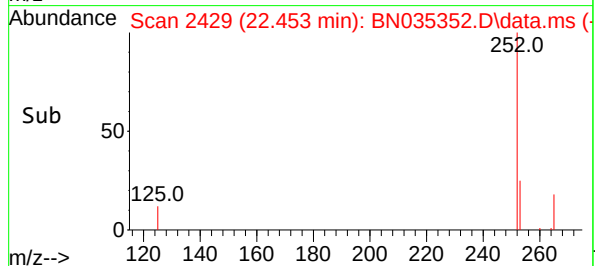
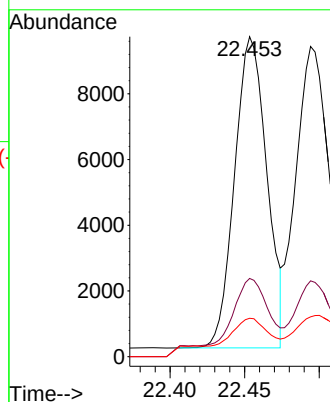
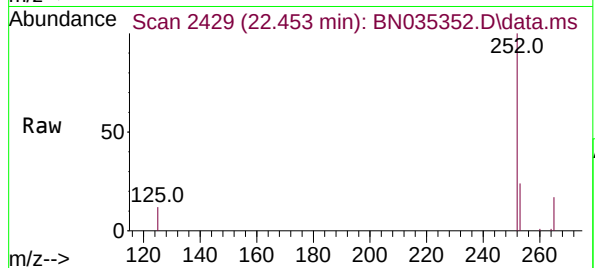
SSTDICCC0.4

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

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

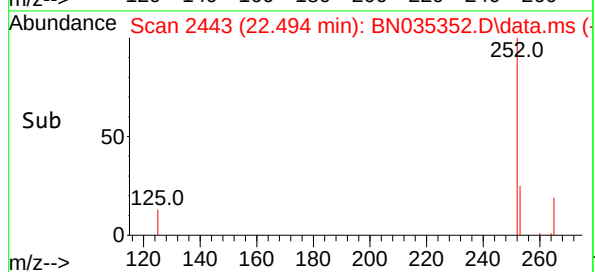
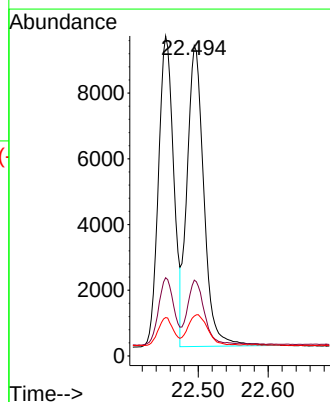
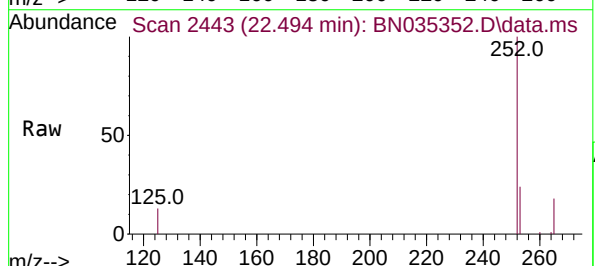
RT: 22.494 min Scan# 2443

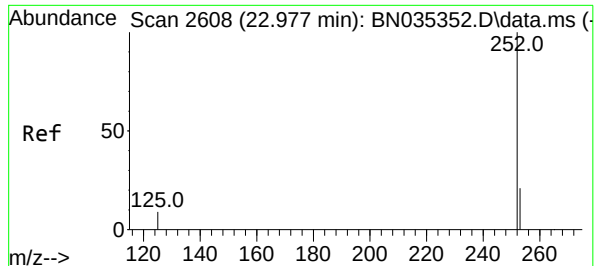
Delta R.T. 0.000 min

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# 2608

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

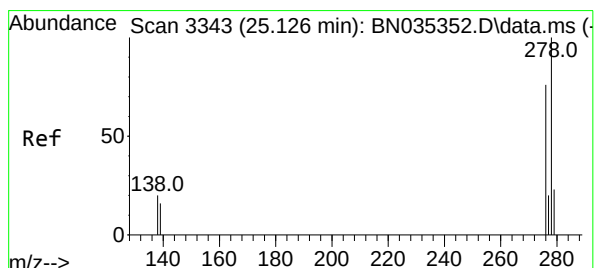
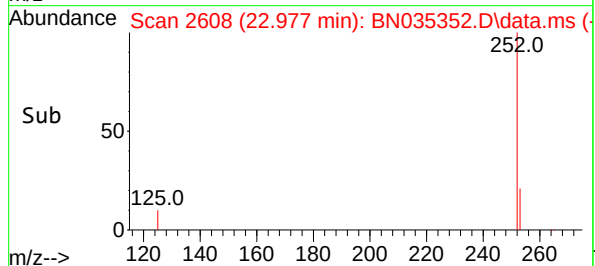
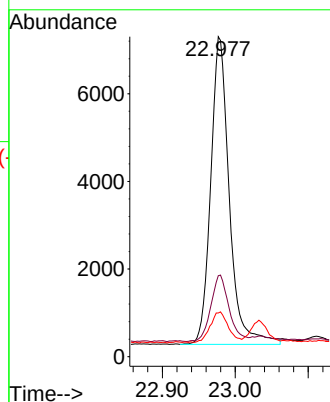
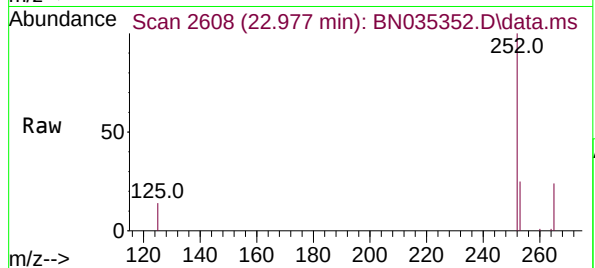
SSTDICCC0.4

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

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

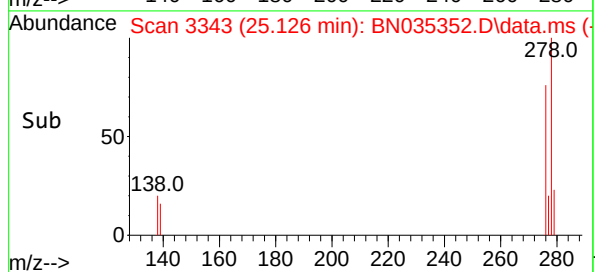
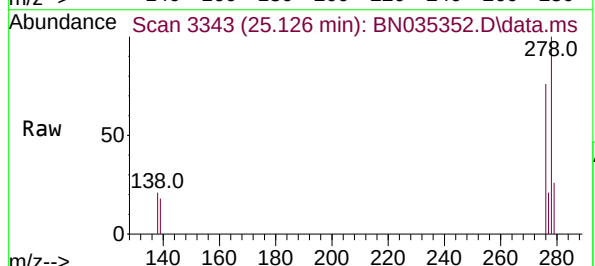
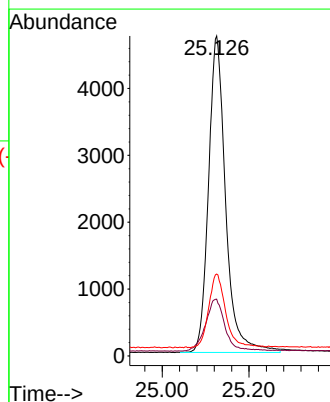
RT: 25.126 min Scan# 3343

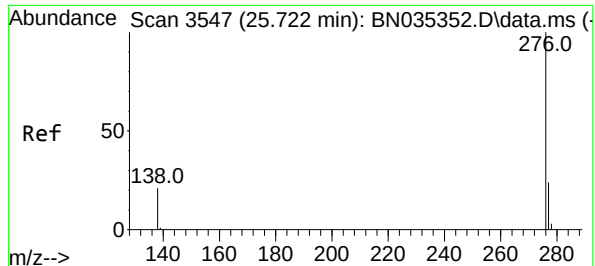
Delta R.T. 0.000 min

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# 3547

Delta R.T. 0.000 min

Lab File: BN035352.D

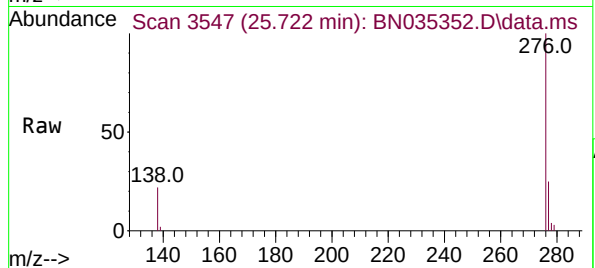
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

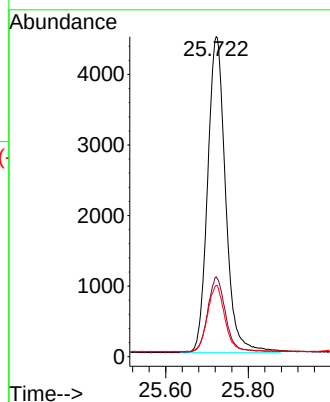
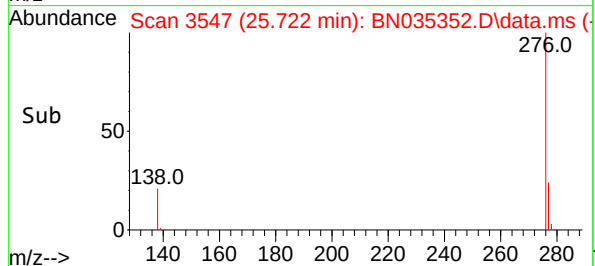
138 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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)

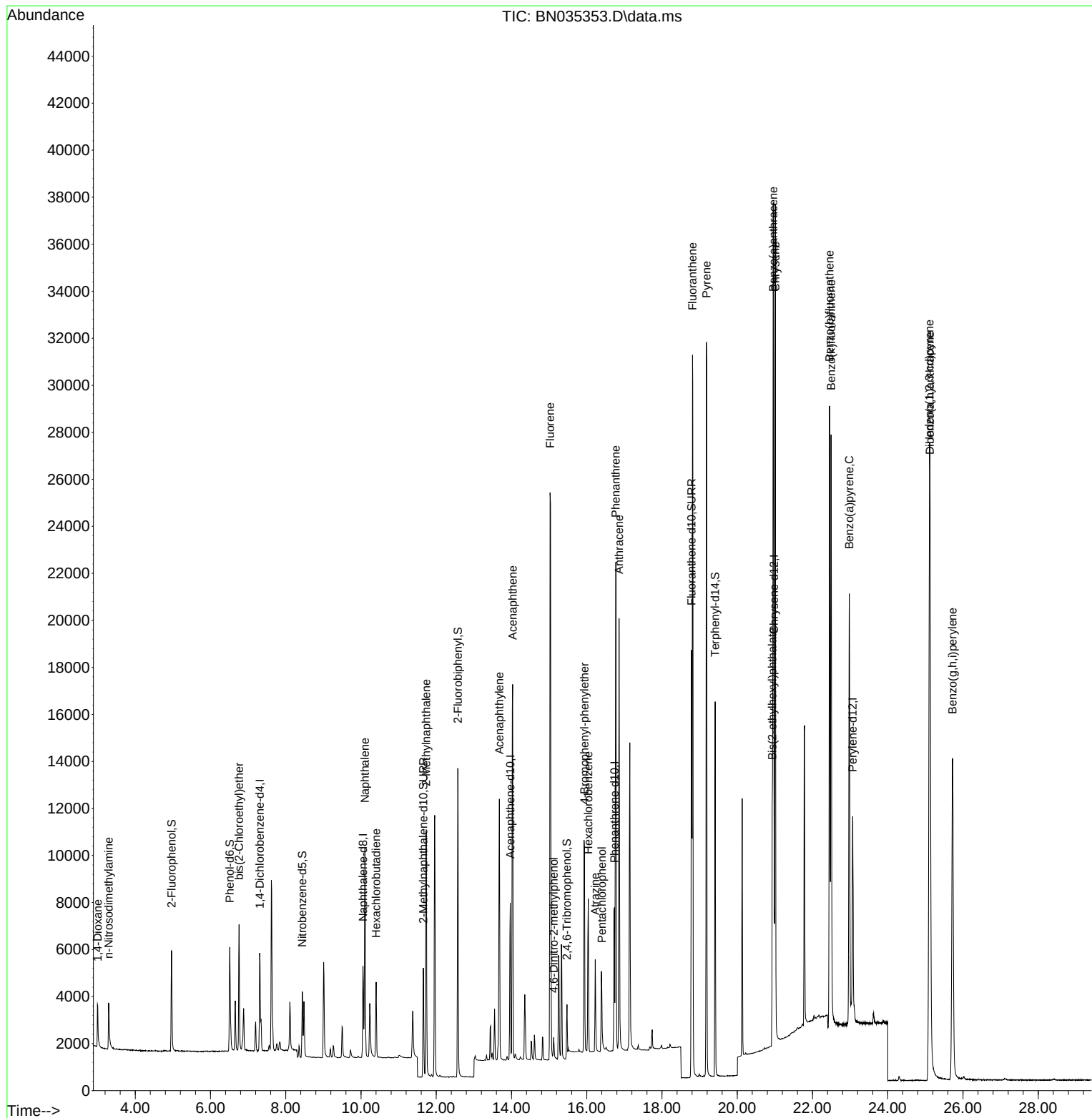
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng	0.00
35) Perylene-d12	23.067	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

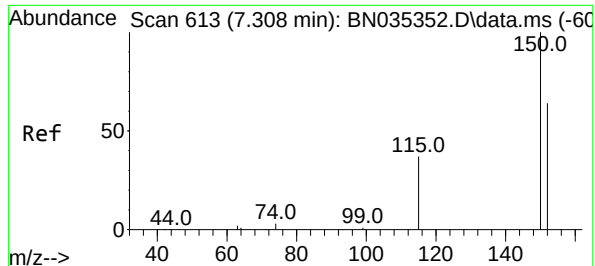
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

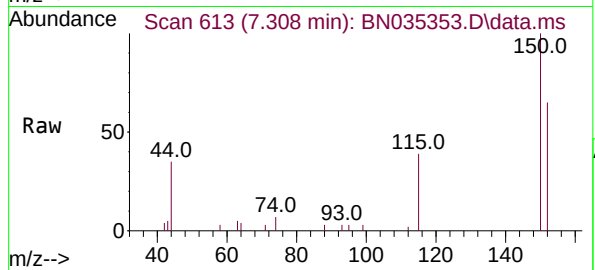
Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





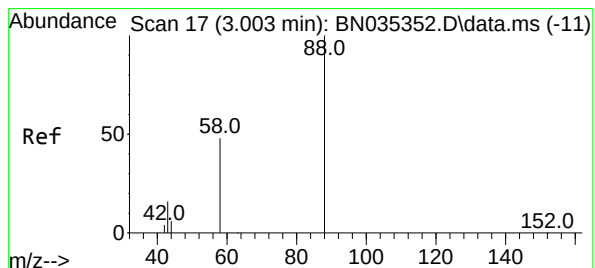
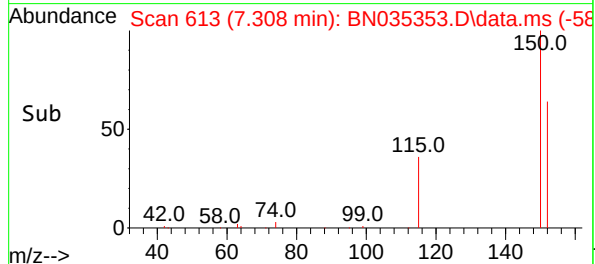
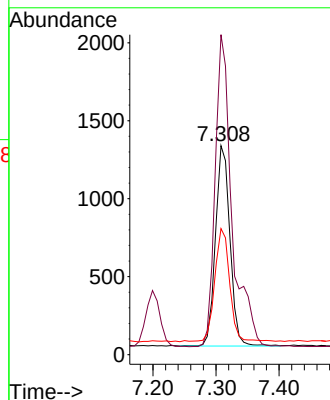
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 152 Resp: 2047

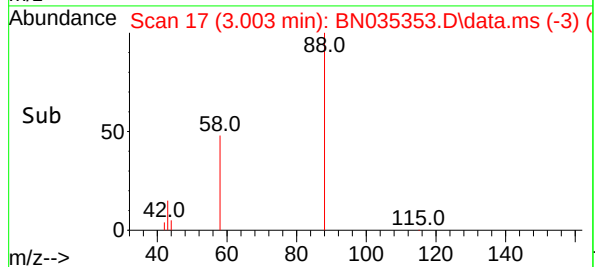
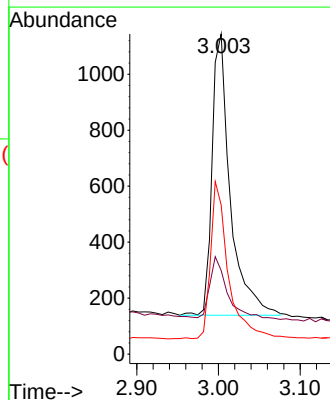
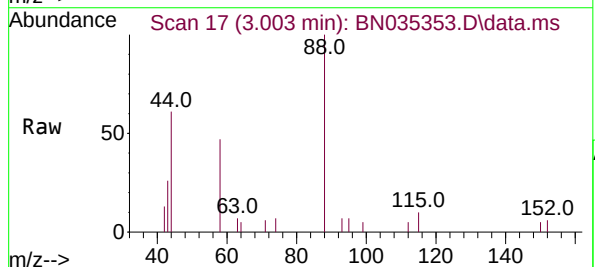
Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

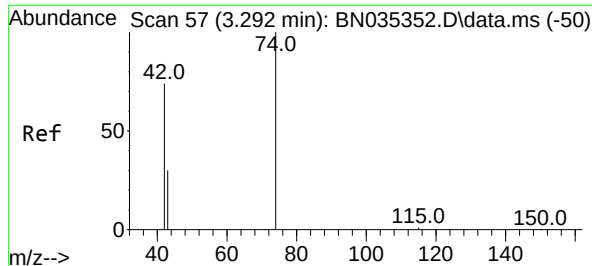


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

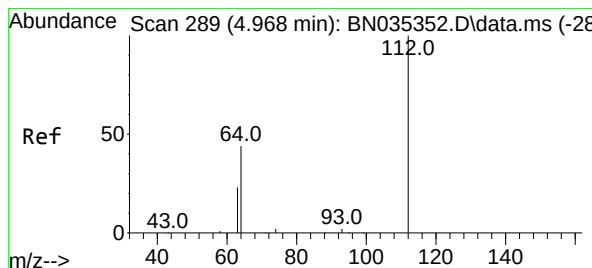
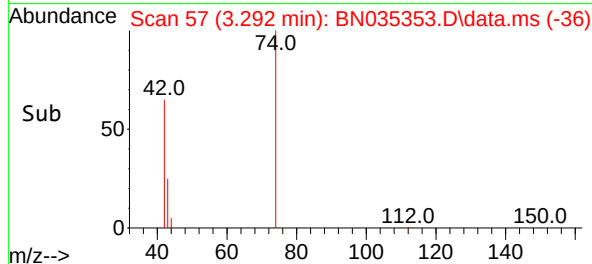
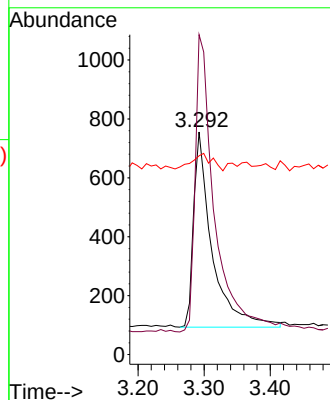
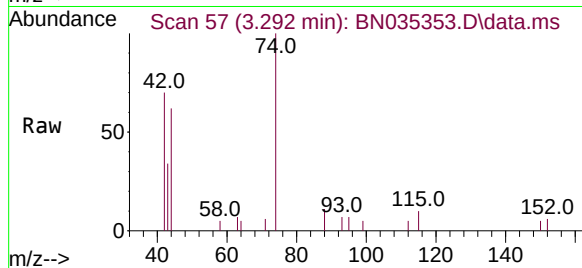




#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

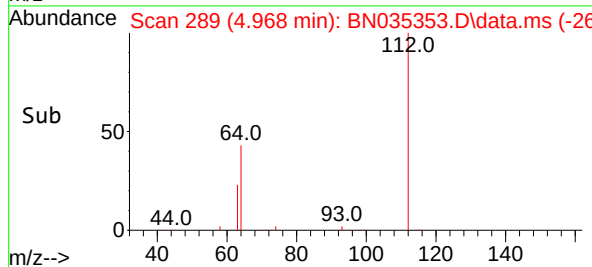
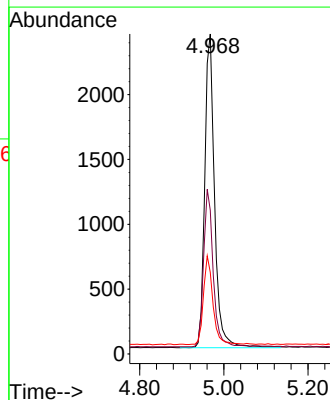
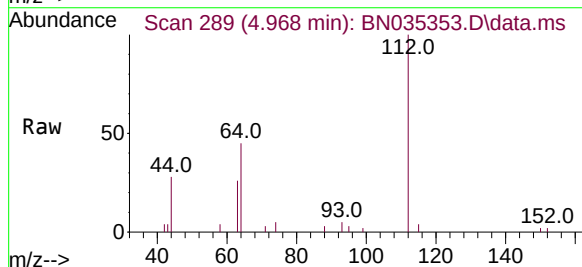
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

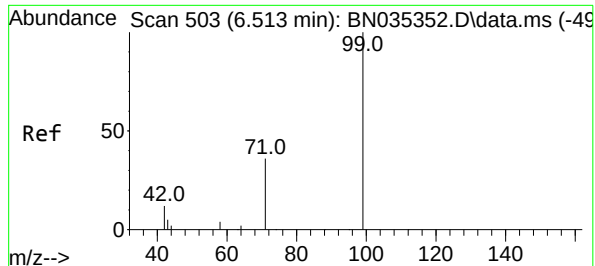
Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
74 158.7 124.9 187.3
44 9.8 2.2 3.4#



#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

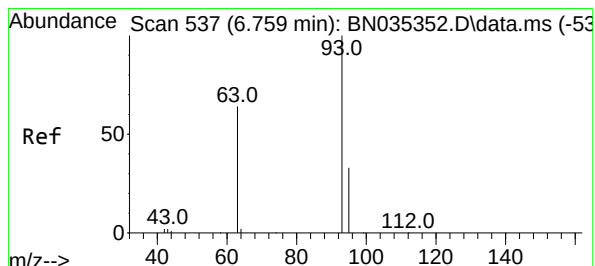
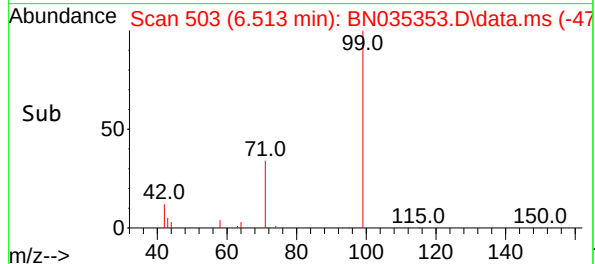
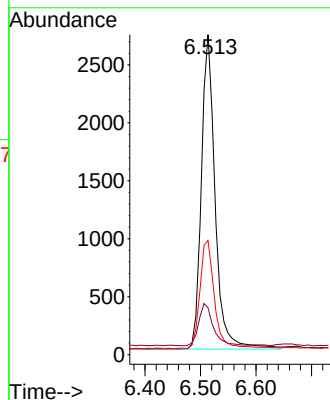
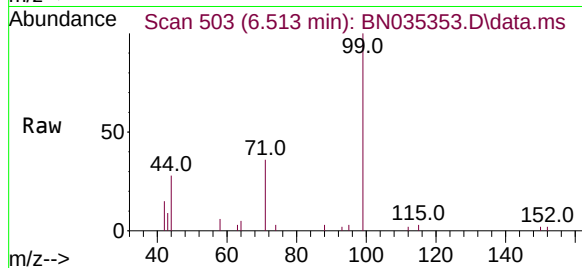




#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

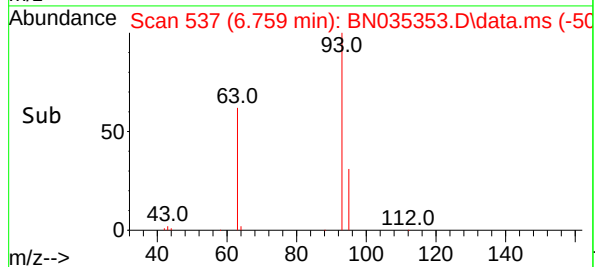
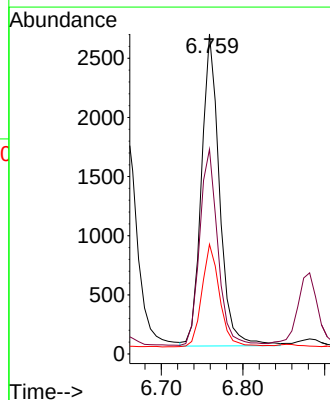
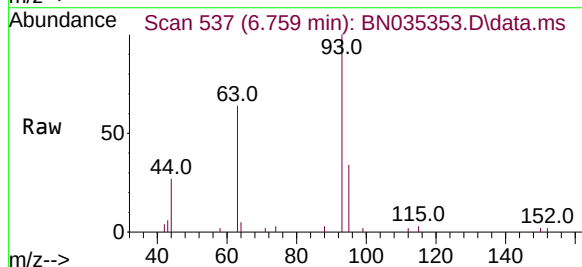
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

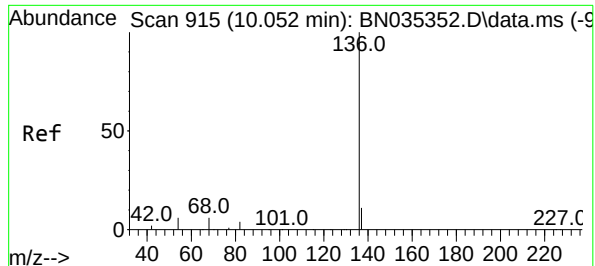
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9



#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	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5

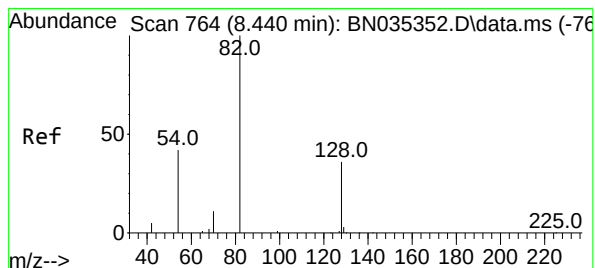
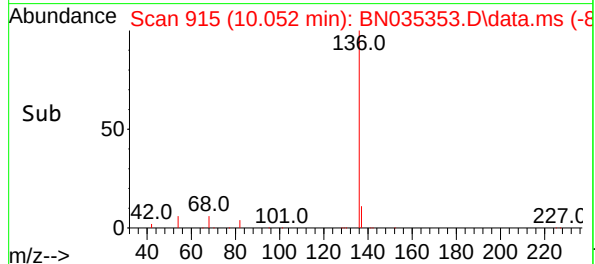
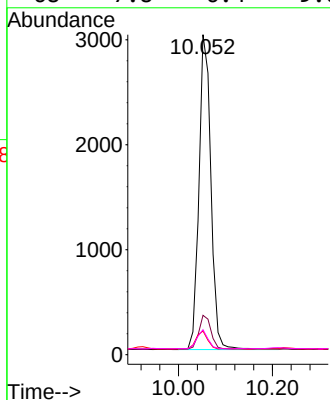
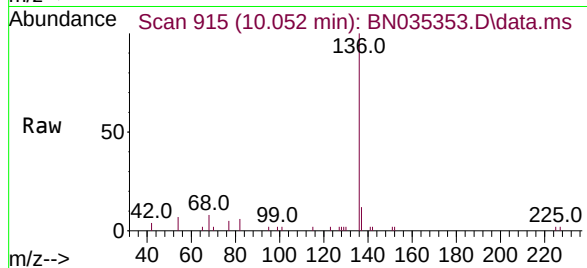




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

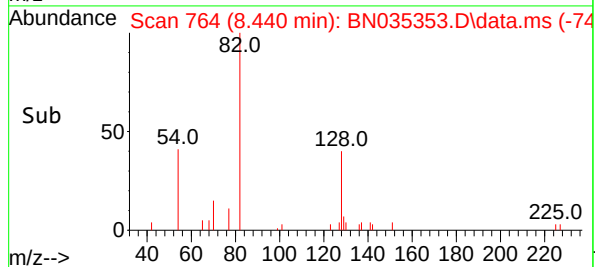
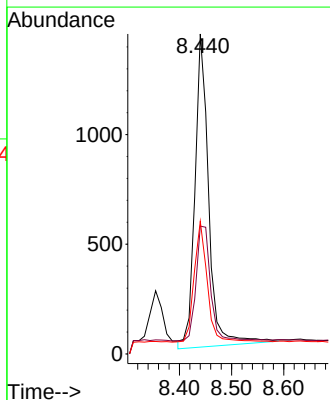
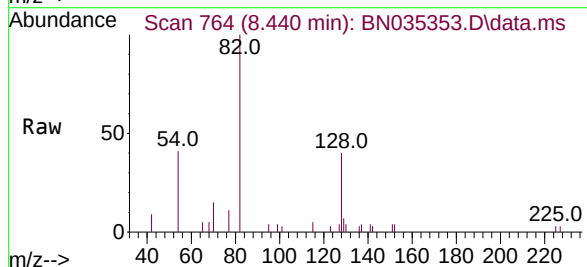
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

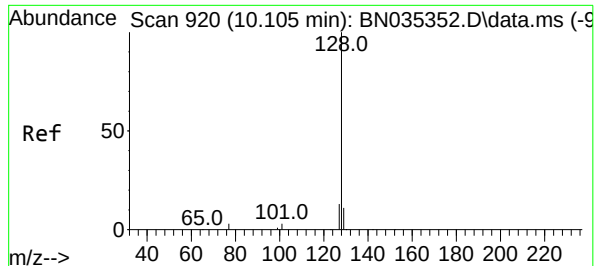
Tgt Ion:	136	Resp:	5308
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6



#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

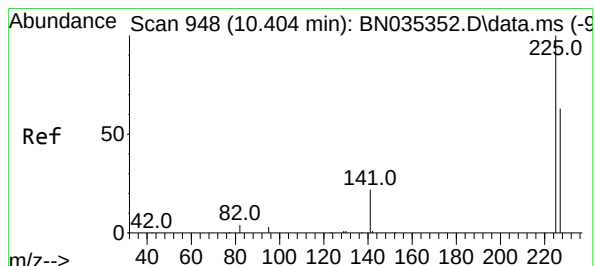
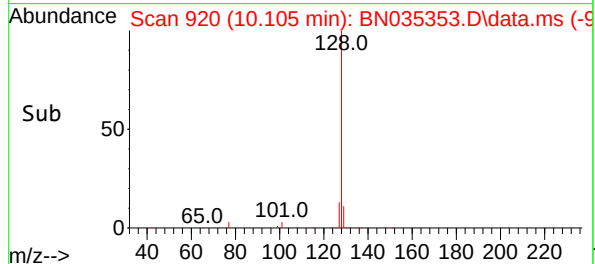
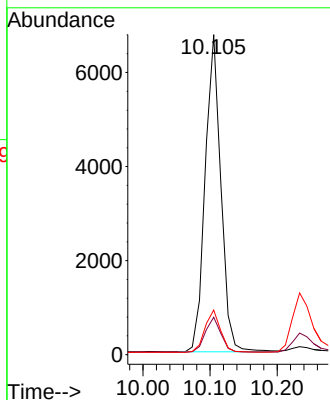
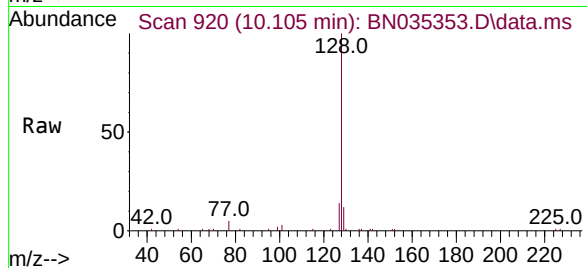




#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

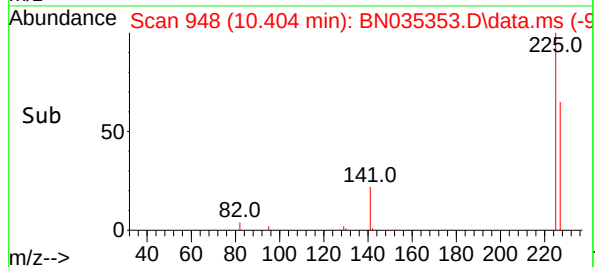
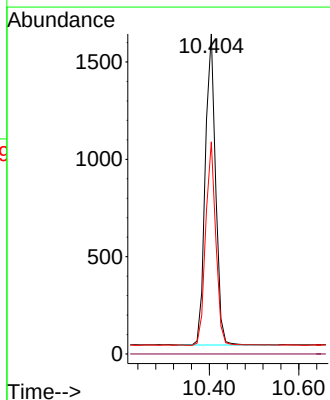
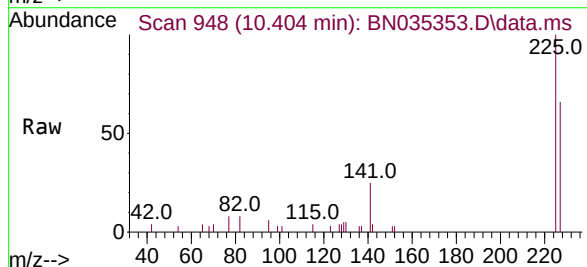
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

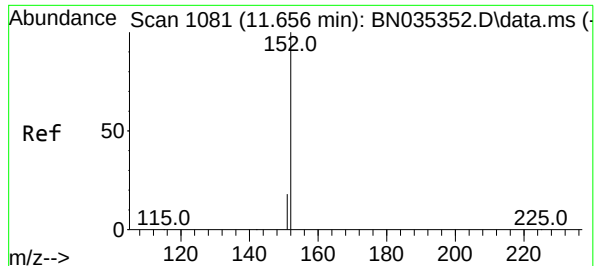
Tgt Ion:128 Resp: 10954
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 13.9 11.4 17.2



#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

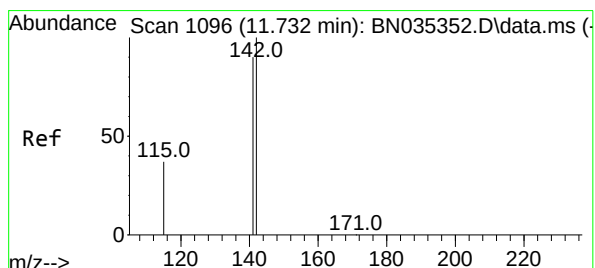
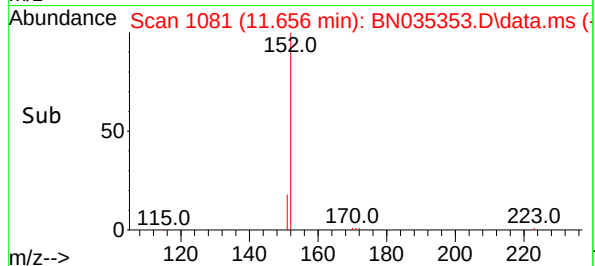
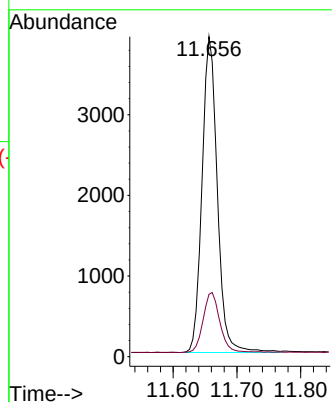
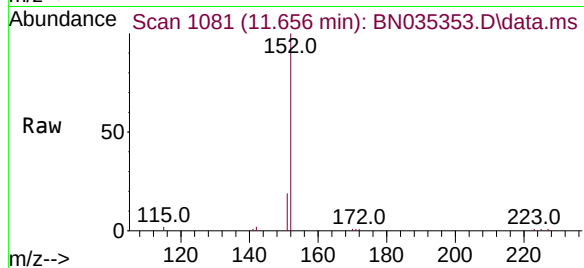




#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

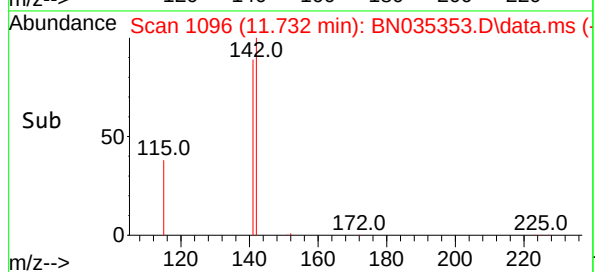
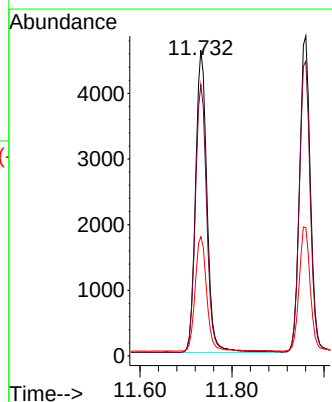
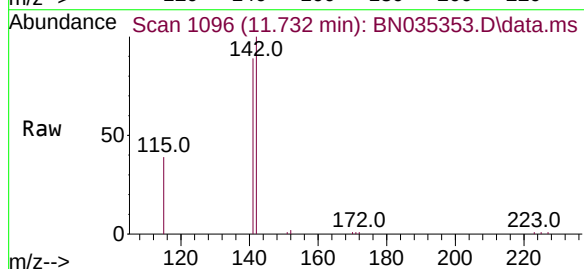
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

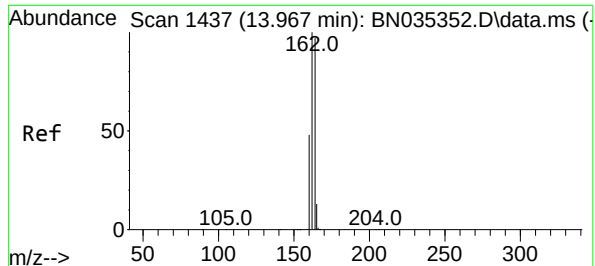
Tgt Ion:152 Resp: 6530
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

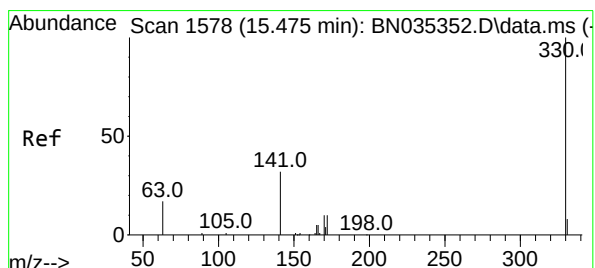
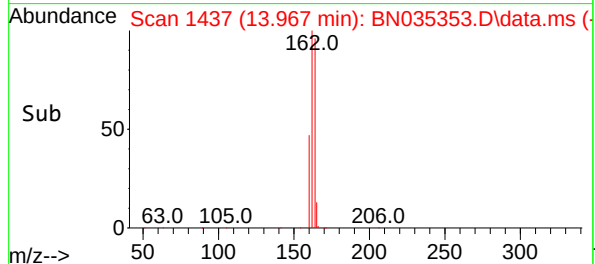
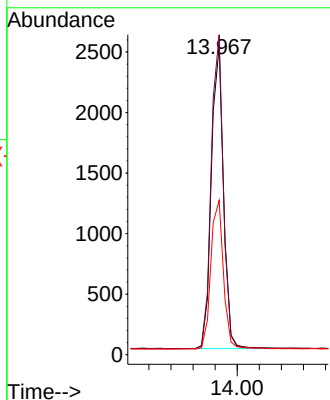
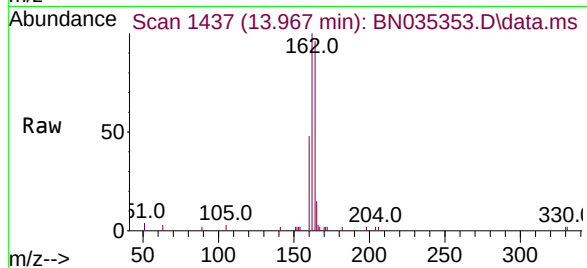




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

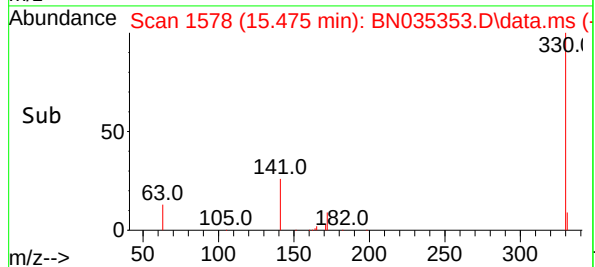
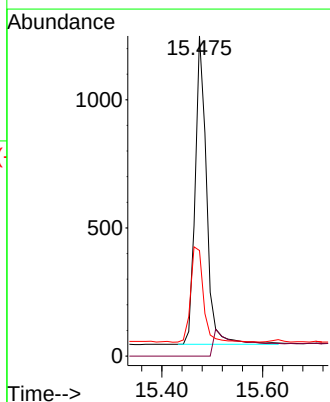
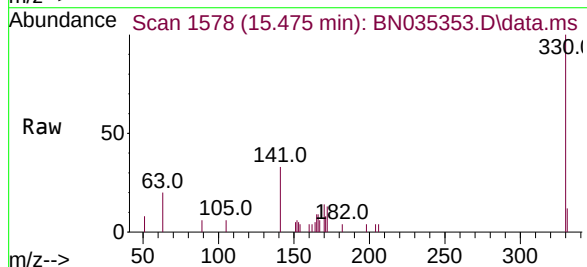
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

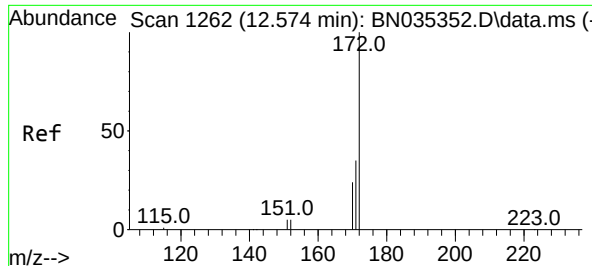
Tgt Ion:164 Resp: 3823
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.1 40.1 60.1



#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# 11

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

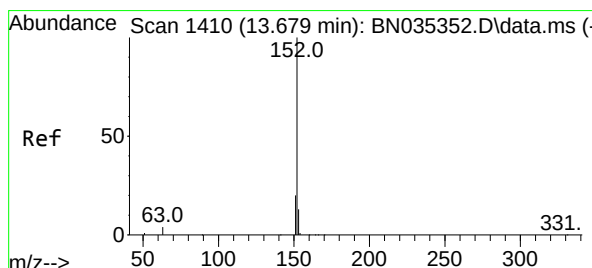
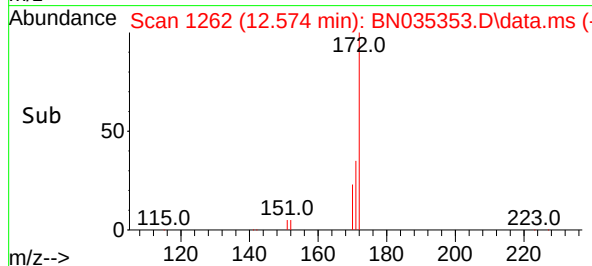
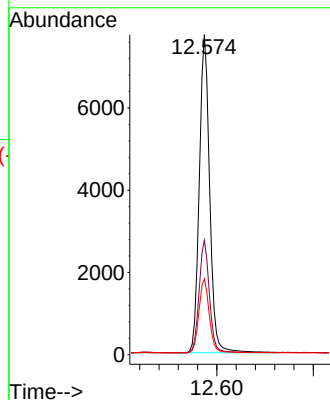
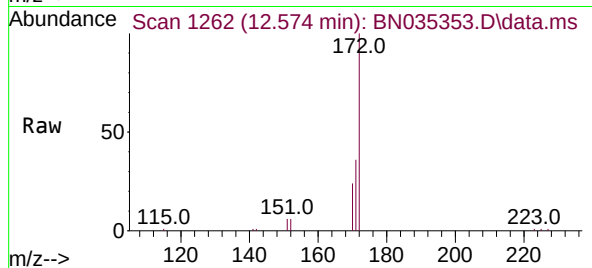
Tgt Ion:172 Resp: 11528

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

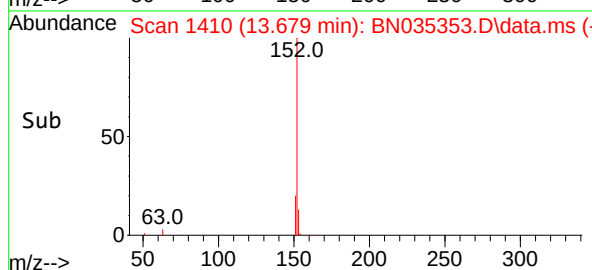
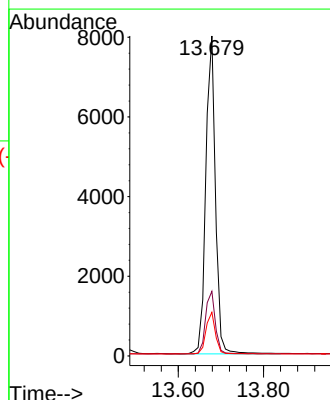
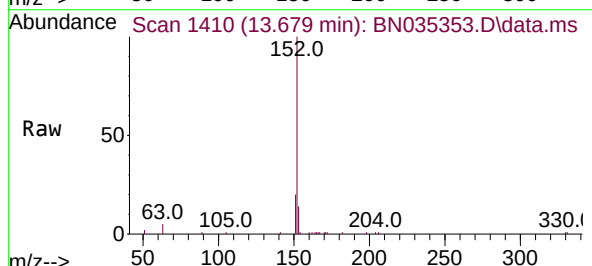
Tgt Ion:152 Resp: 12523

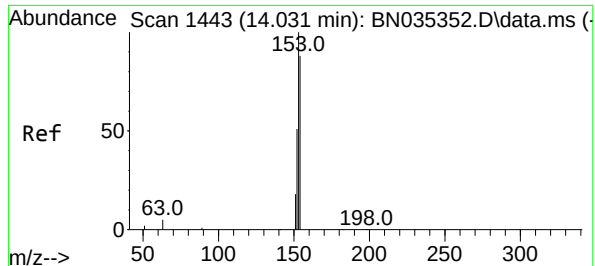
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 12.9 10.4 15.6

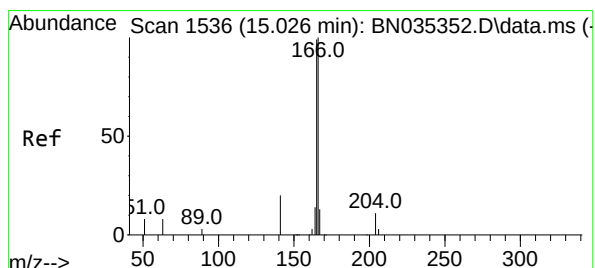
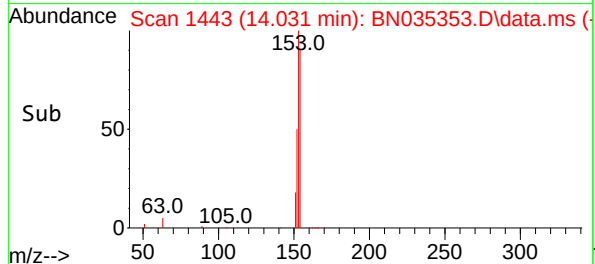
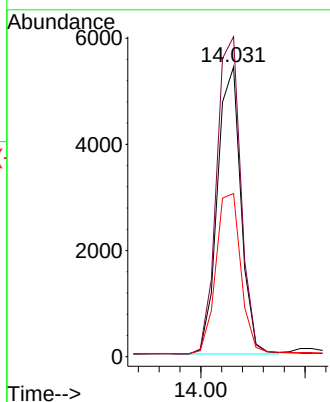
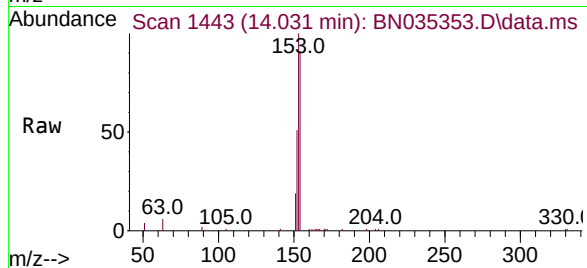




#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

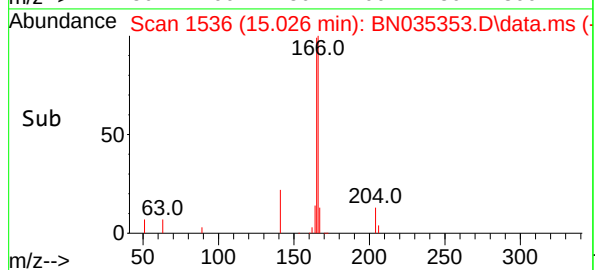
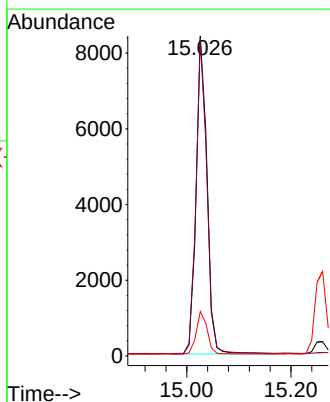
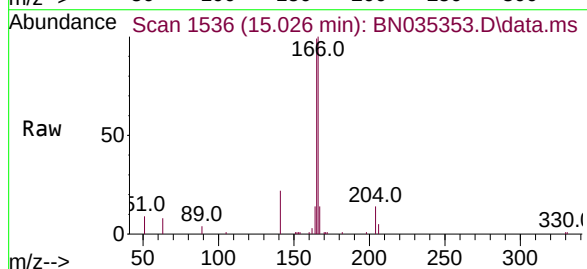
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

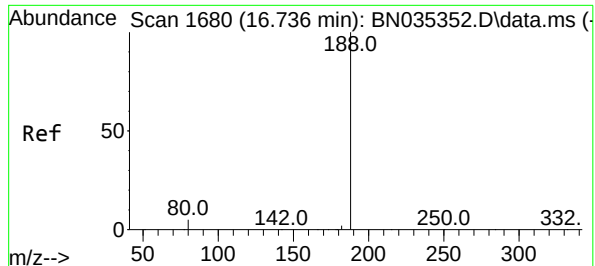
Tgt Ion:154 Resp: 8470
Ion Ratio Lower Upper
154 100
153 114.8 92.6 139.0
152 60.2 49.0 73.6



#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

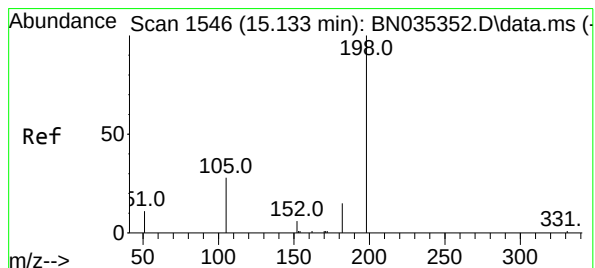
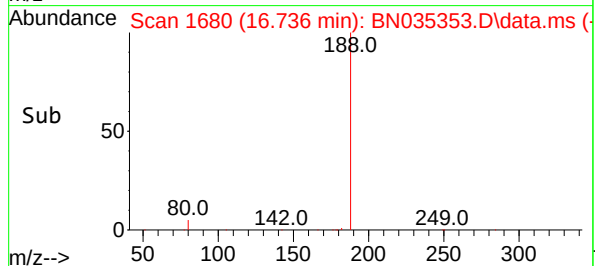
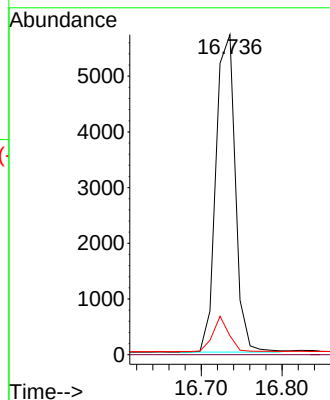
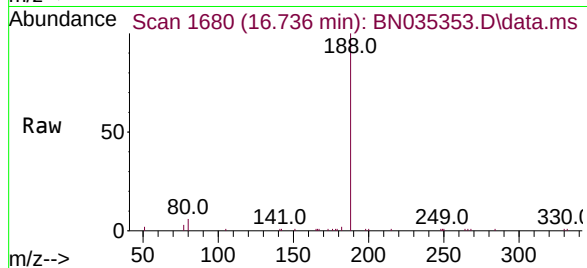
Tgt Ion:188 Resp: 9525

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

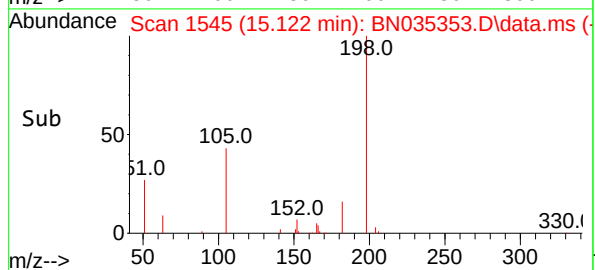
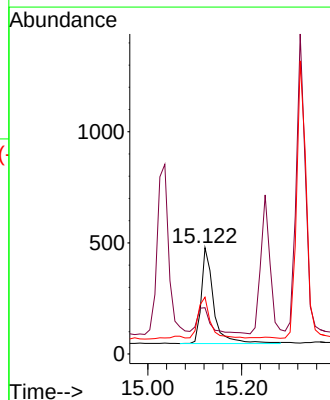
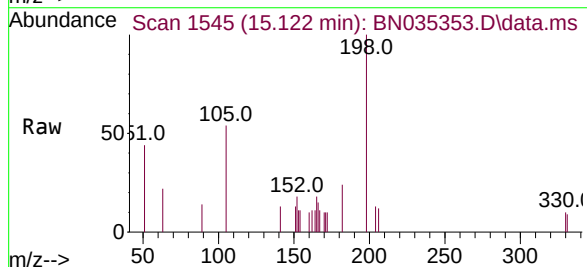
Tgt Ion:198 Resp: 784

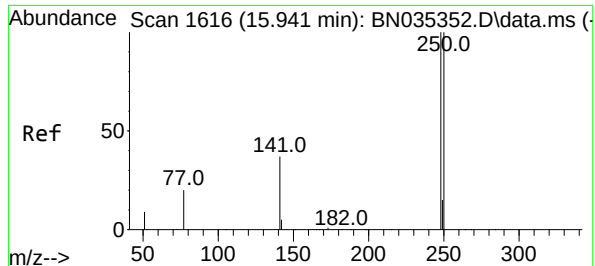
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

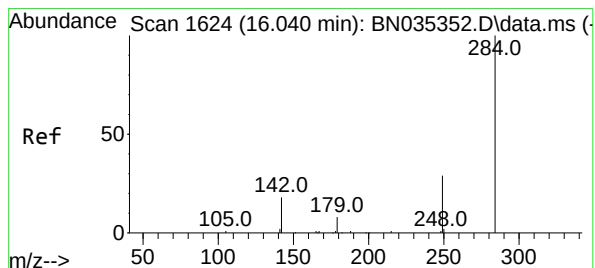
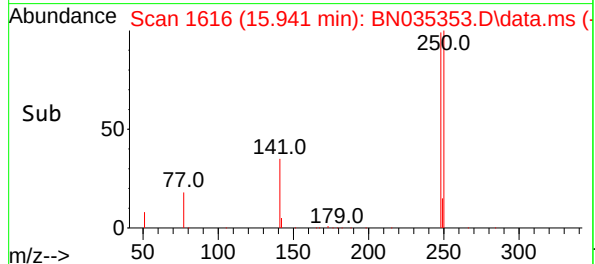
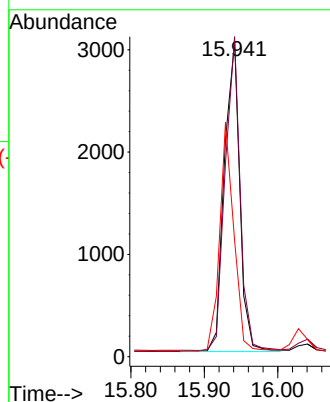
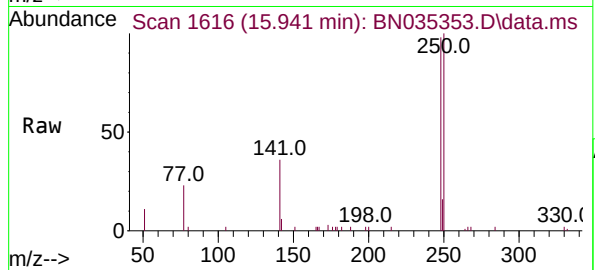




#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

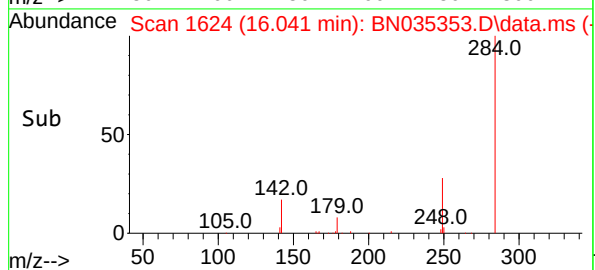
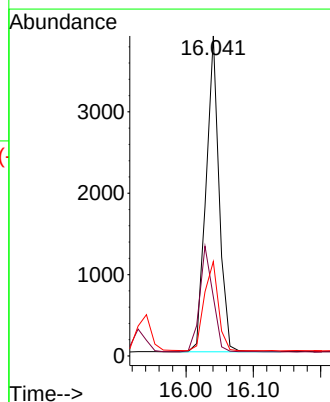
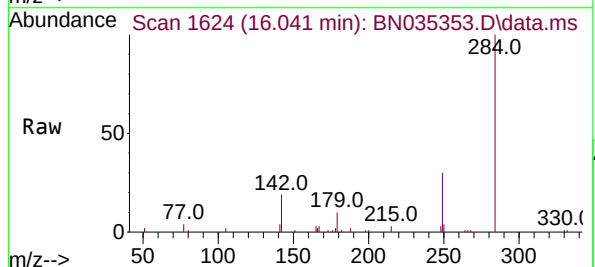
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

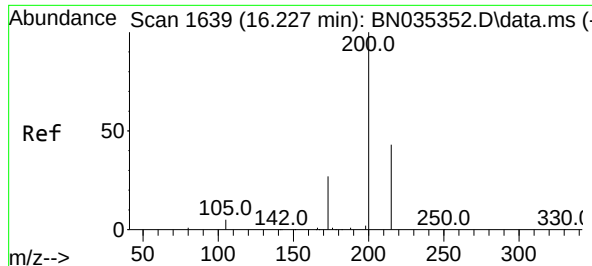
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3



#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	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8

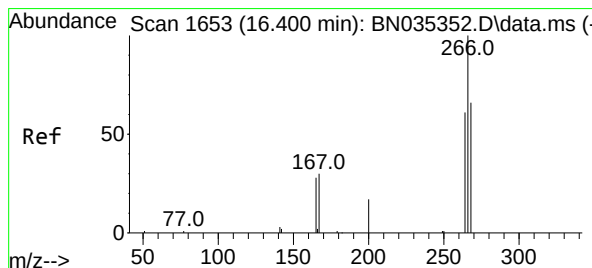
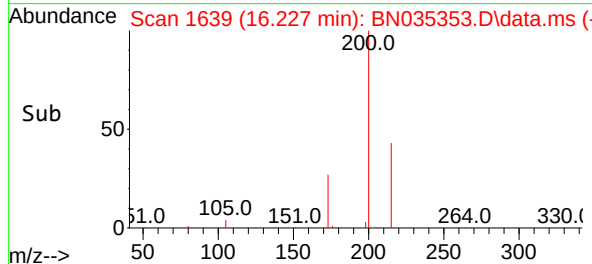
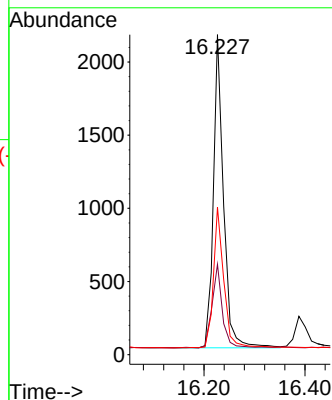
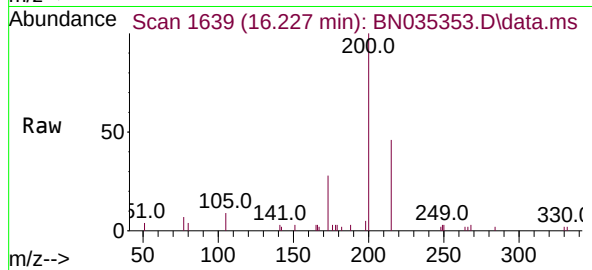




#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

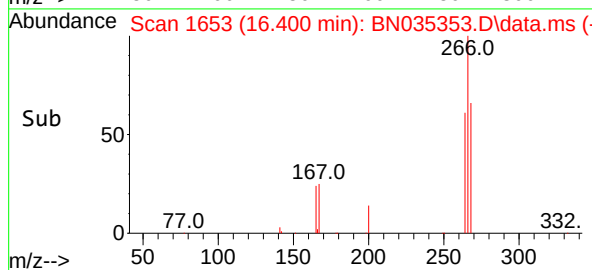
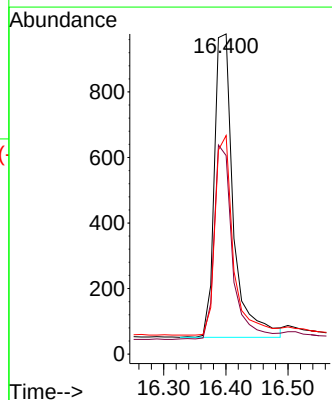
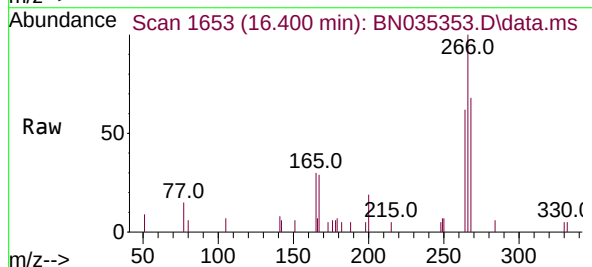
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

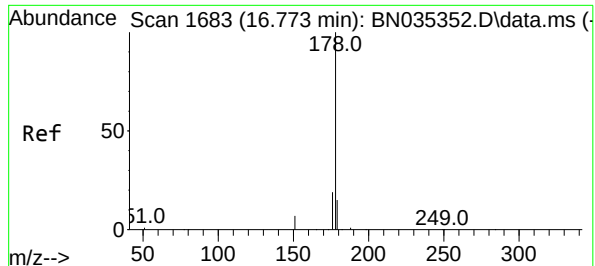
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3



#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	Ratio	Lower	Upper
266	100		
264	61.9	42.3	63.5
268	63.7	43.3	64.9

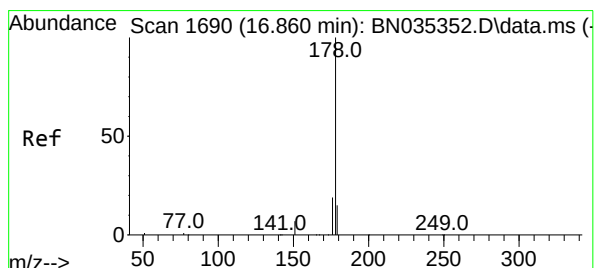
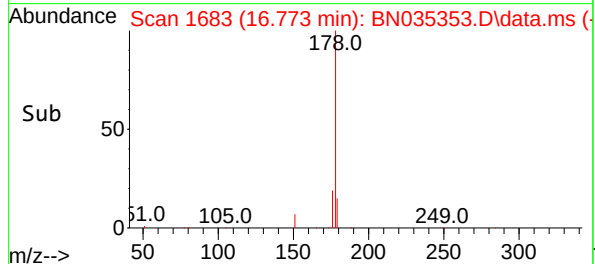
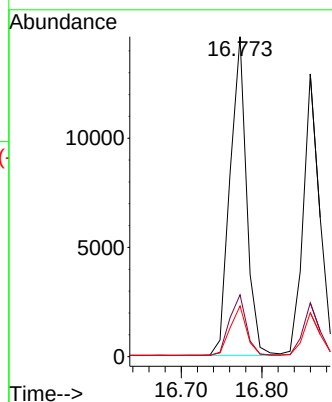
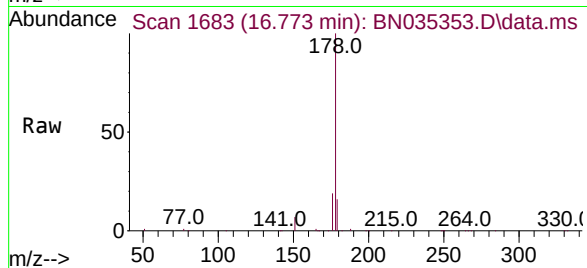




#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

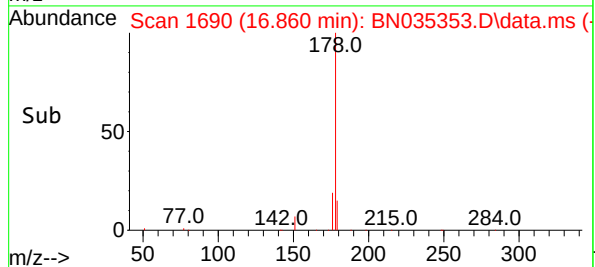
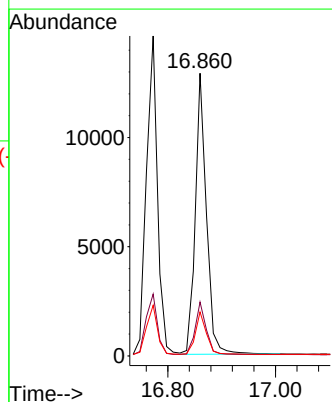
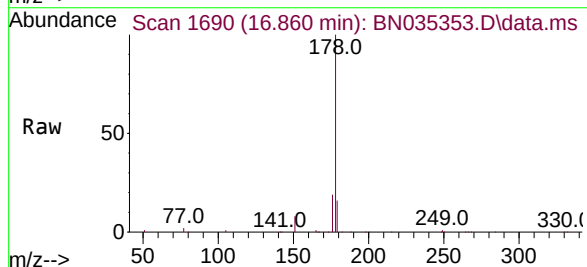
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

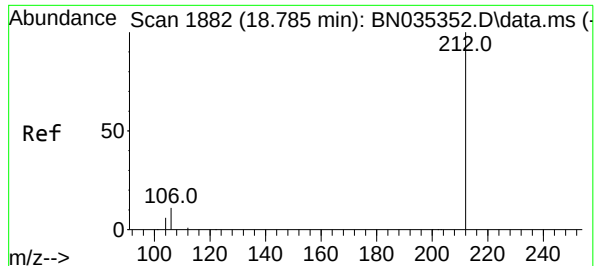
Tgt Ion:178 Resp: 20803
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.3 18.5



#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# 1882

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

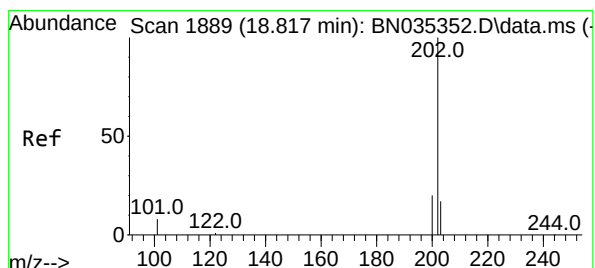
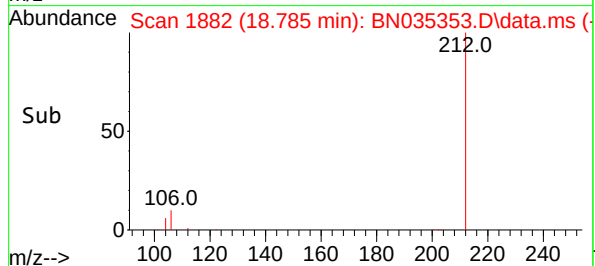
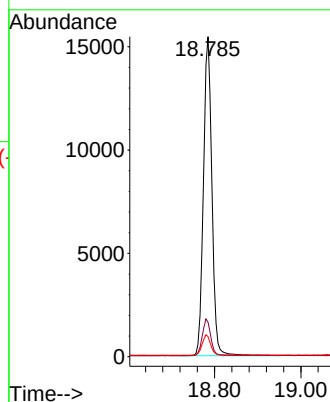
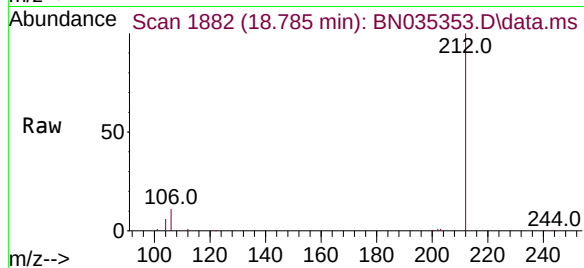
Tgt Ion:212 Resp: 21050

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

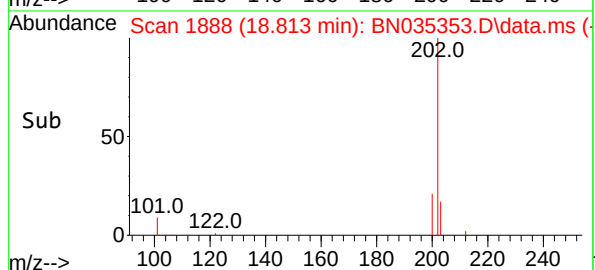
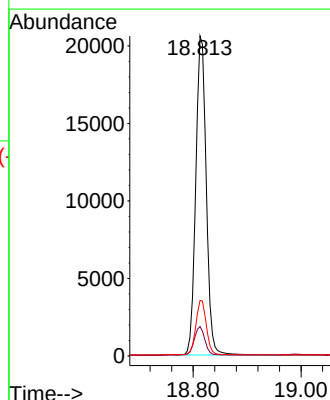
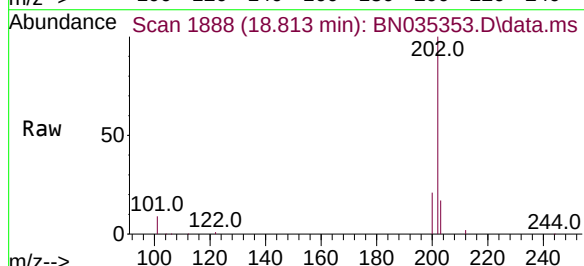
Tgt Ion:202 Resp: 27743

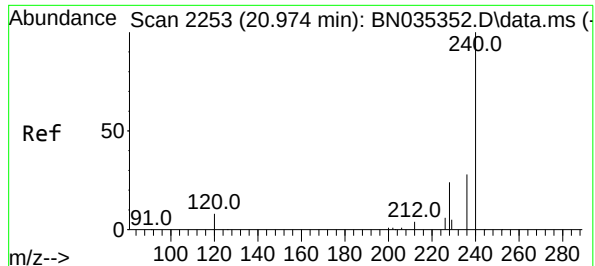
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

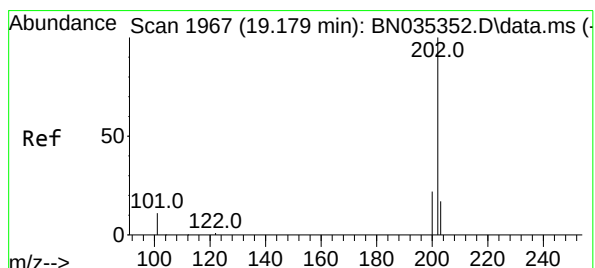
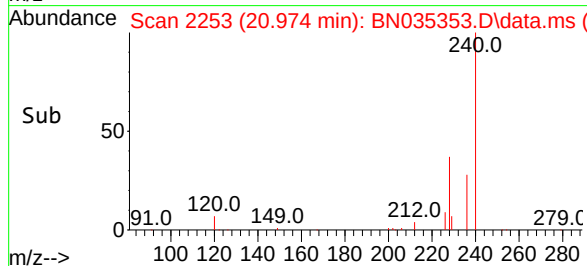
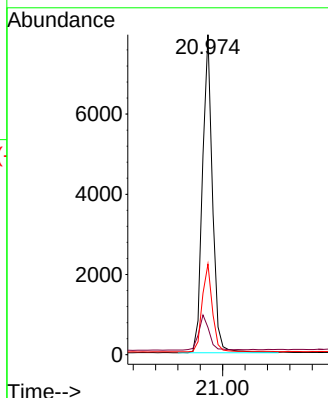
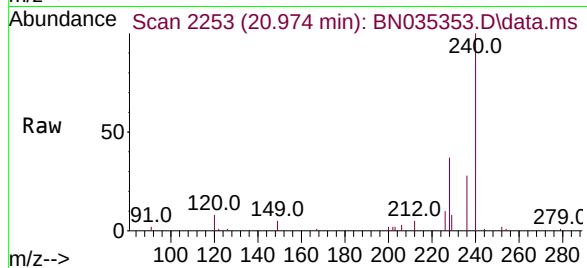
Tgt Ion:240 Resp: 9837

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

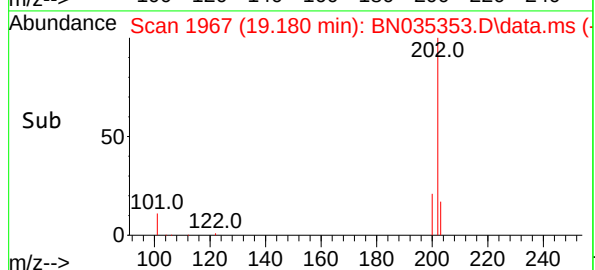
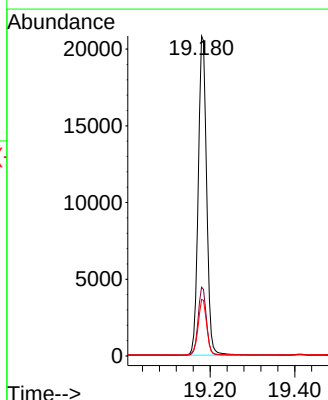
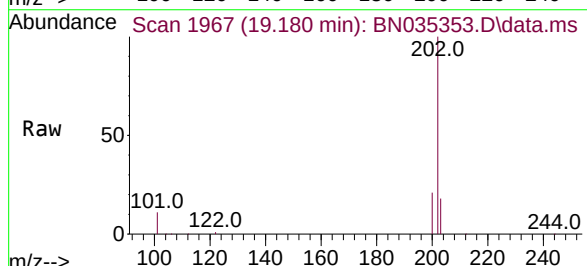
Tgt Ion:202 Resp: 28384

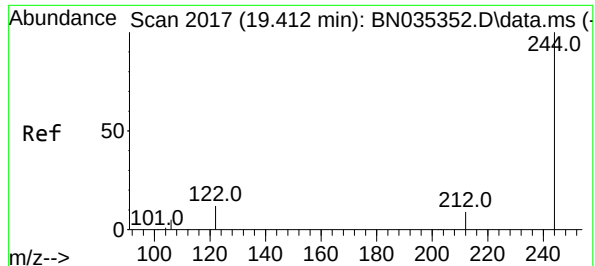
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

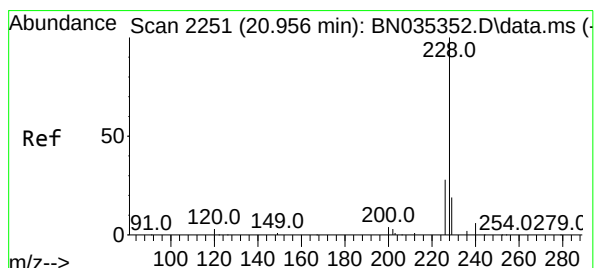
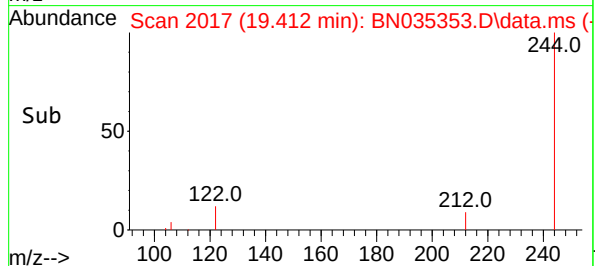
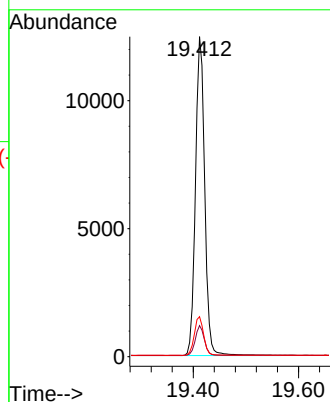
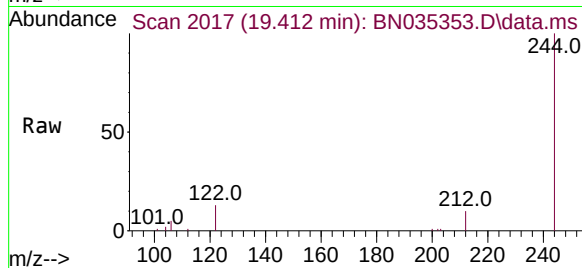




#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

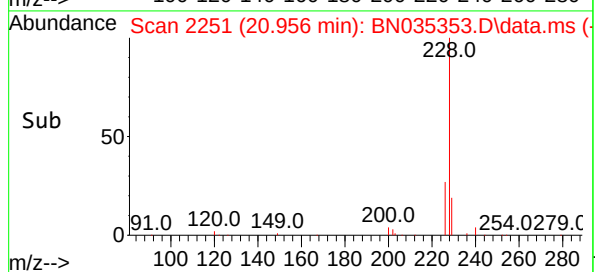
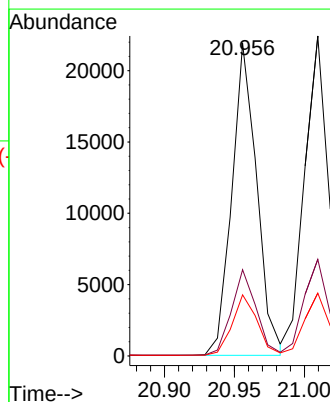
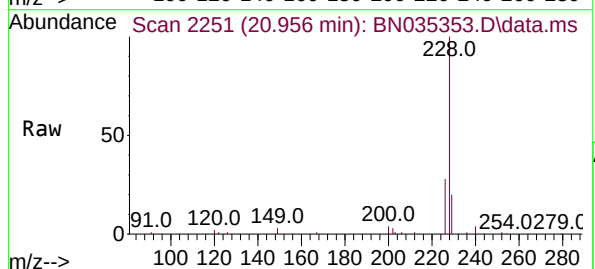
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

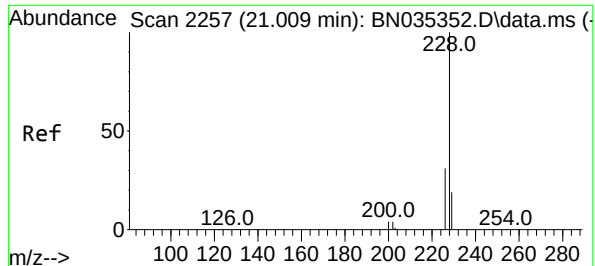
Tgt Ion:244 Resp: 15171
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5



#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# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

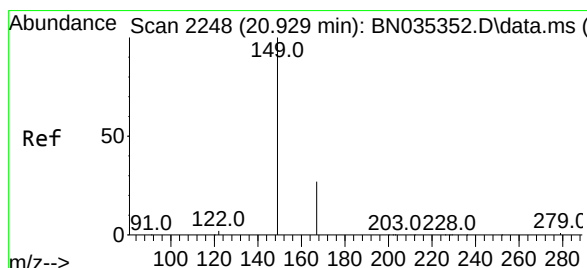
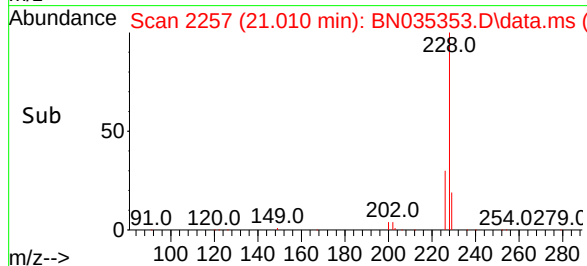
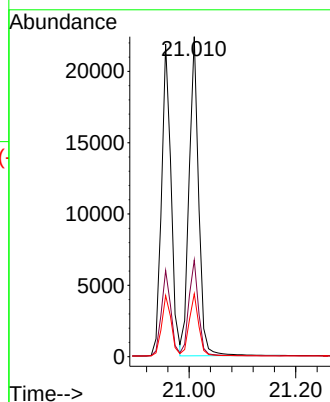
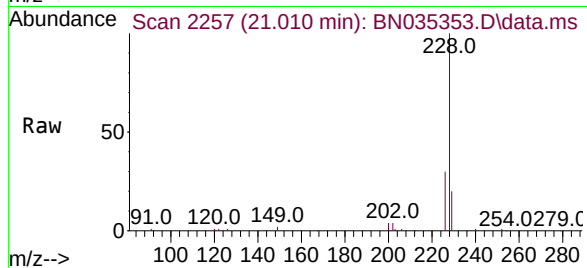
Tgt Ion:228 Resp: 27838

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

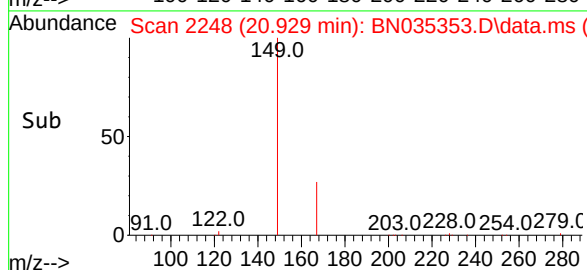
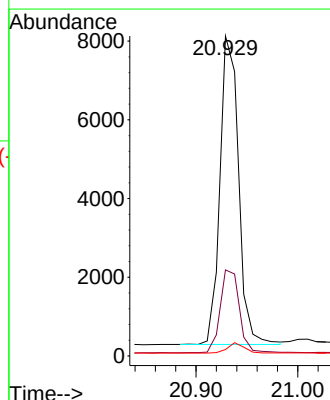
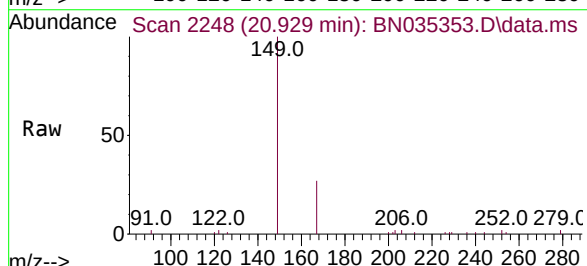
Tgt Ion:149 Resp: 9941

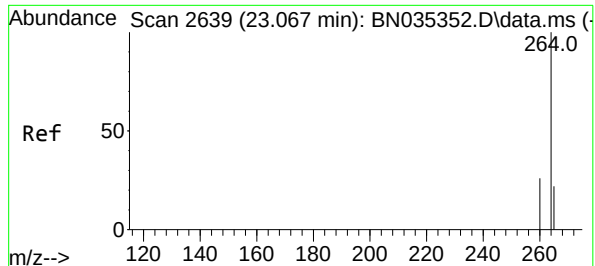
Ion Ratio Lower Upper

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

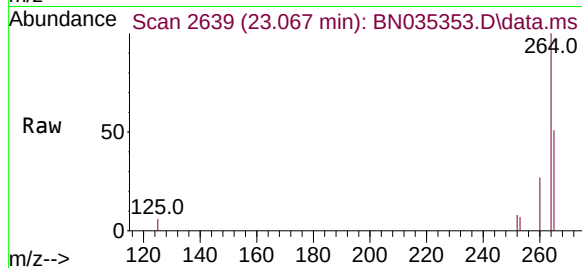
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



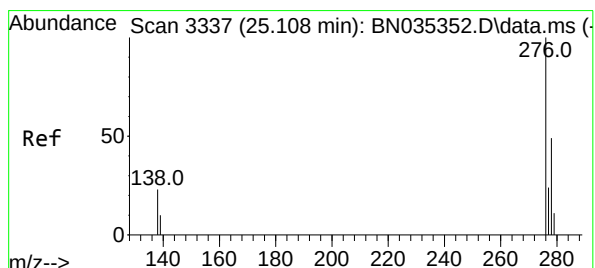
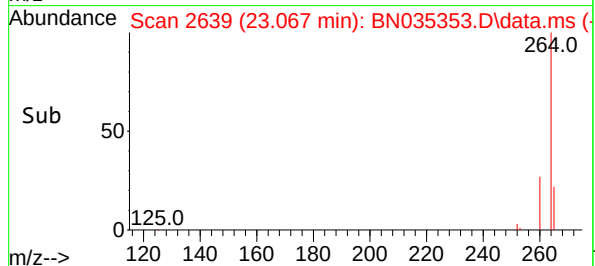
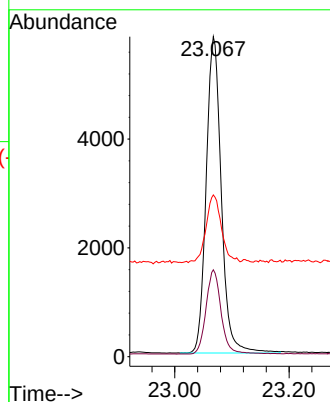
Tgt Ion:264 Resp: 10698

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

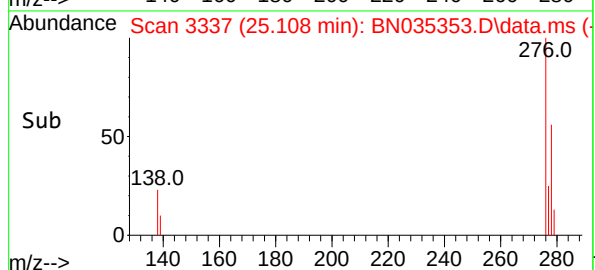
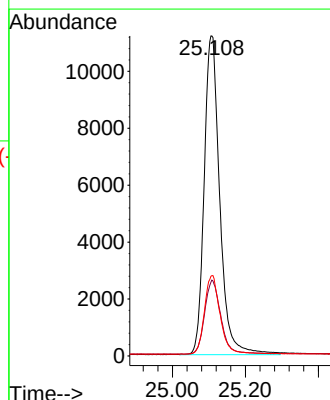
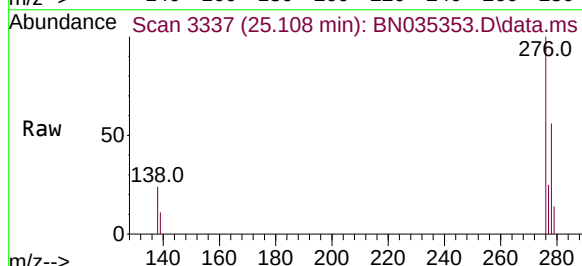
Tgt Ion:276 Resp: 33248

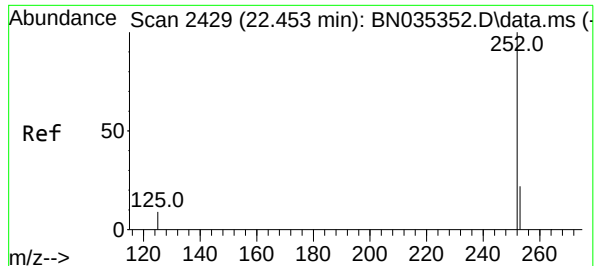
Ion Ratio Lower Upper

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# 2429

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

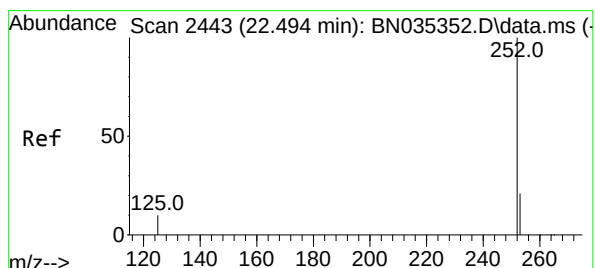
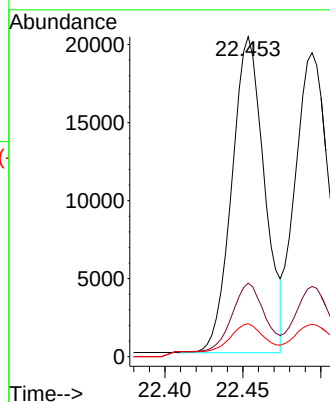
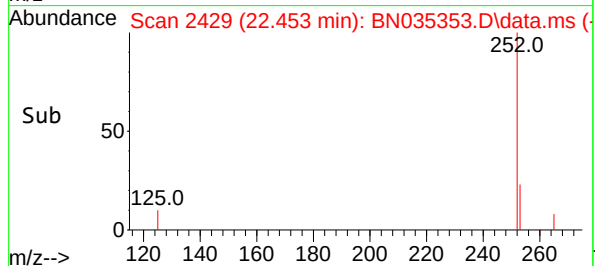
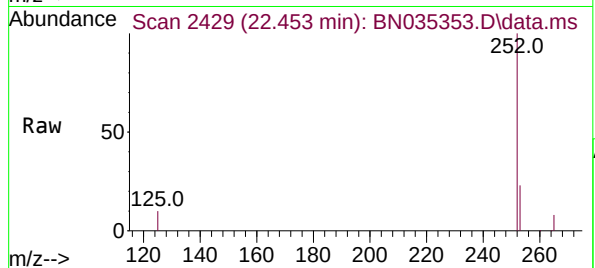
Tgt Ion:252 Resp: 29491

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

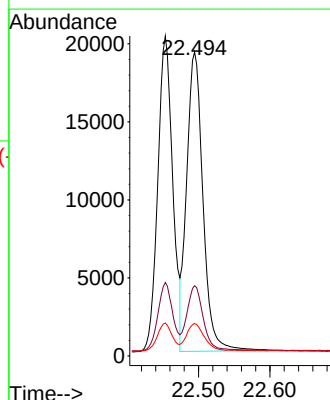
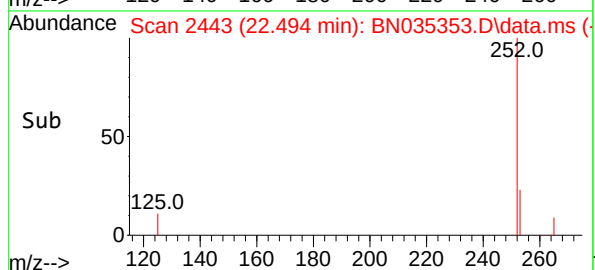
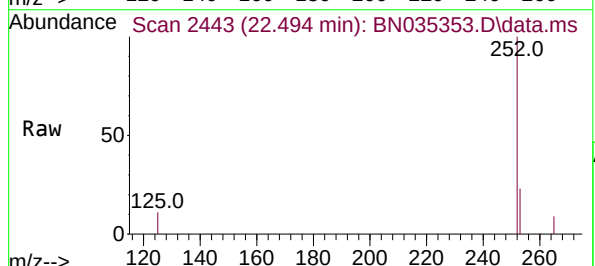
Tgt Ion:252 Resp: 30369

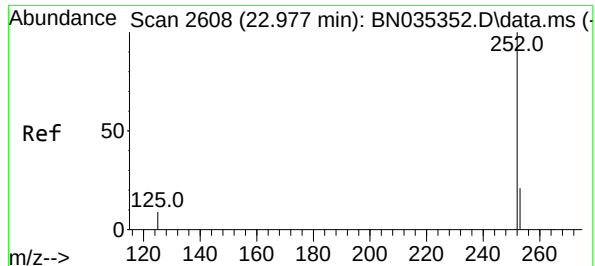
Ion Ratio Lower Upper

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

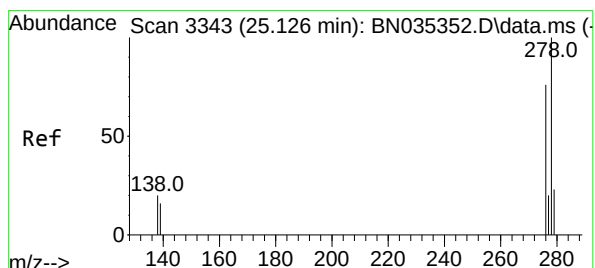
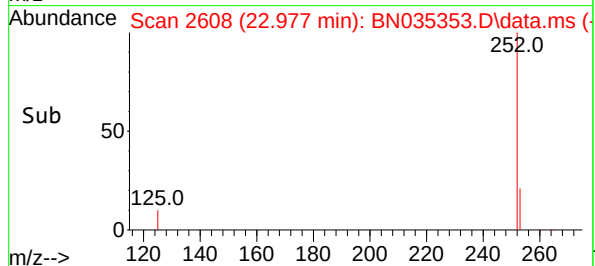
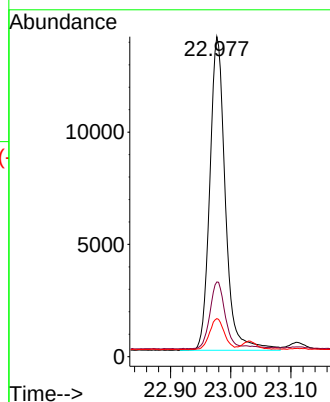
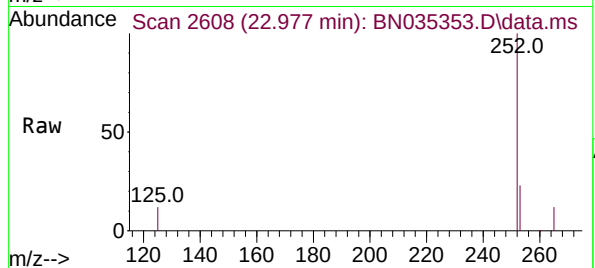
Tgt Ion:252 Resp: 25053

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

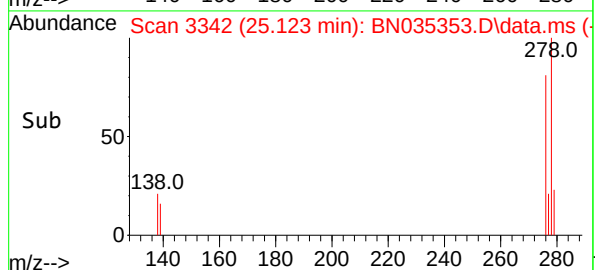
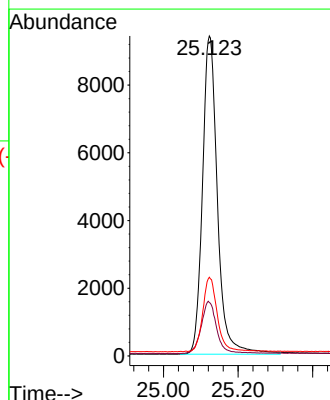
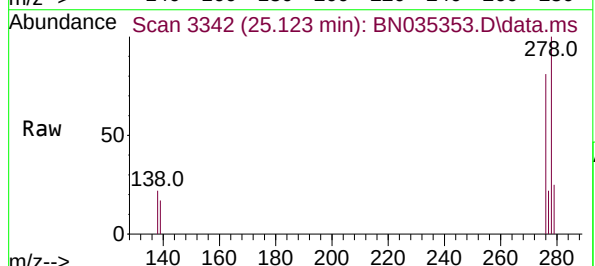
Tgt Ion:278 Resp: 26222

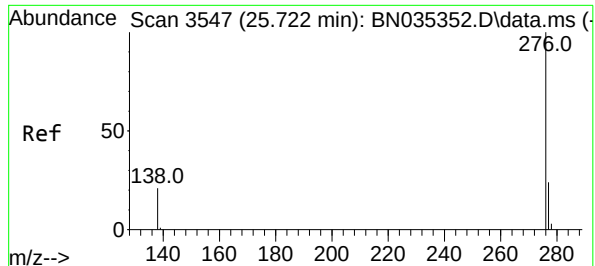
Ion Ratio Lower Upper

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

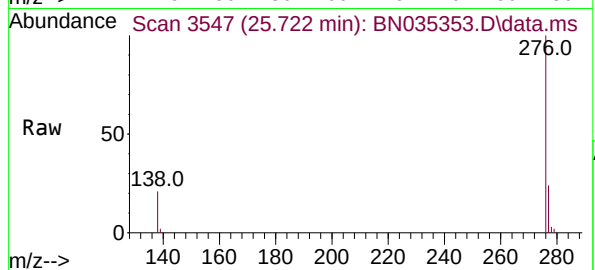
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



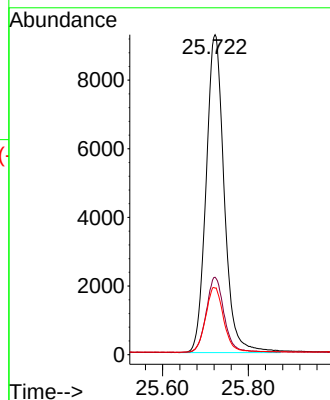
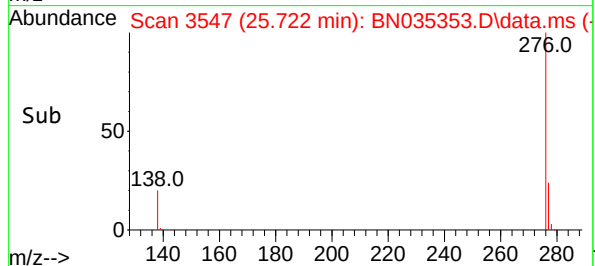
Tgt Ion:276 Resp: 27143

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

138 20.8 17.8 26.8



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)

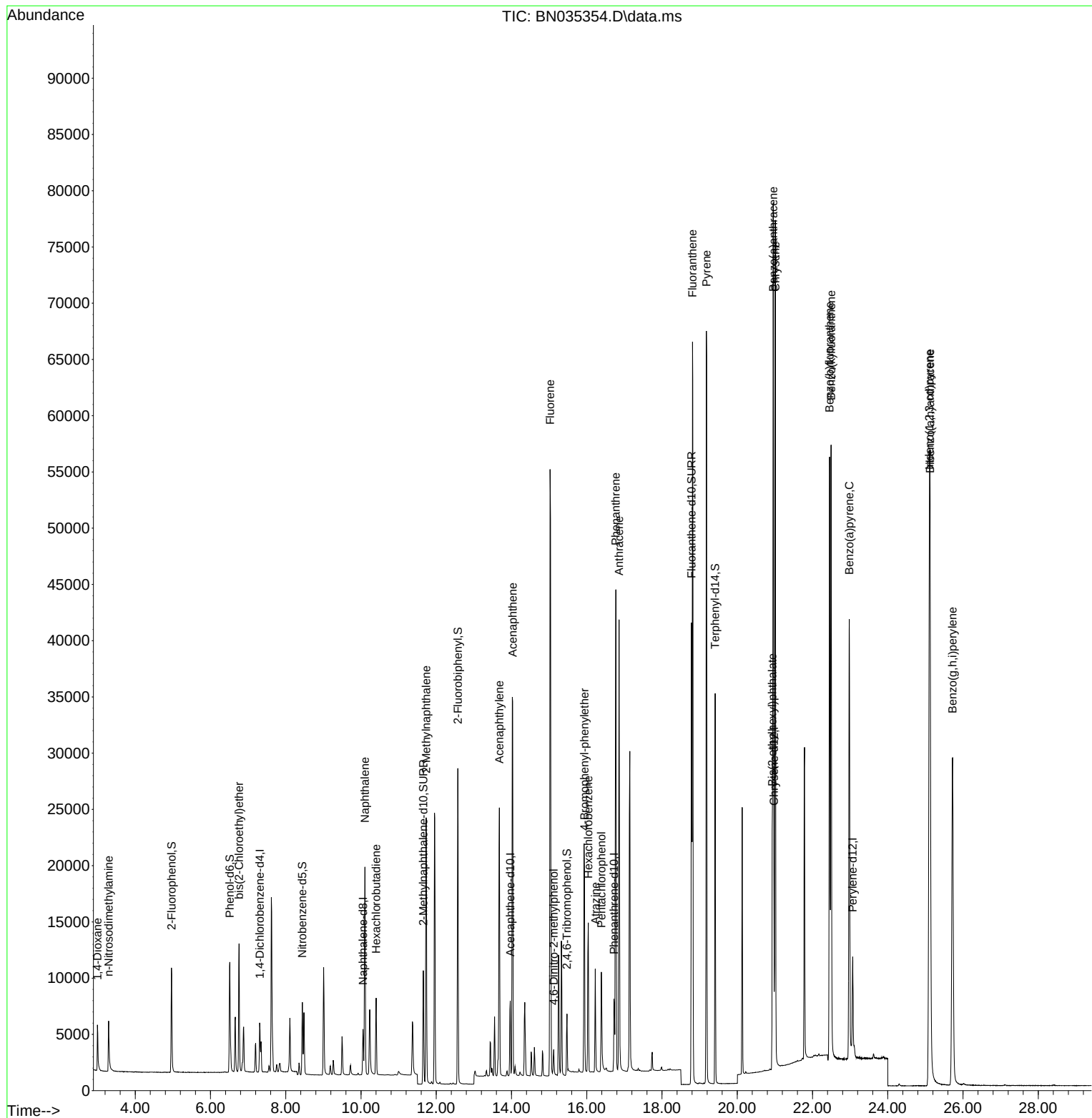
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng	0.00
35) Perylene-d12	23.067	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

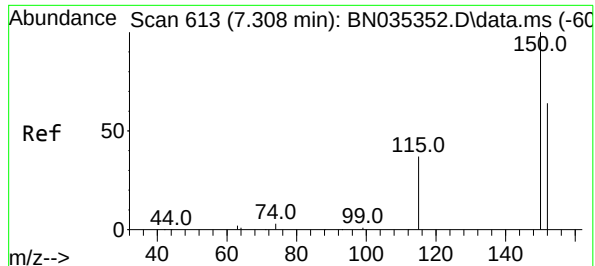
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

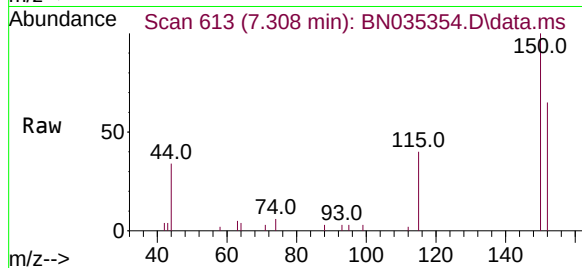
Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





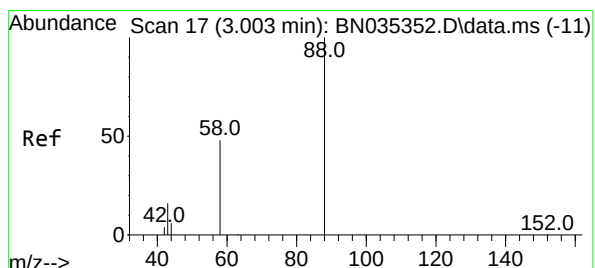
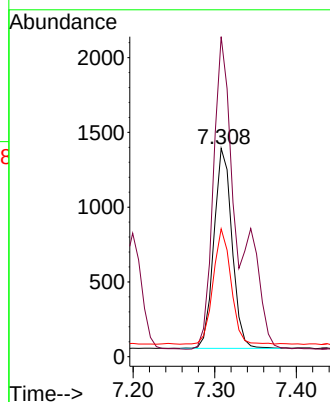
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 2053

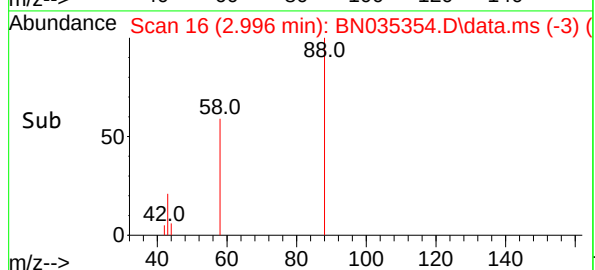
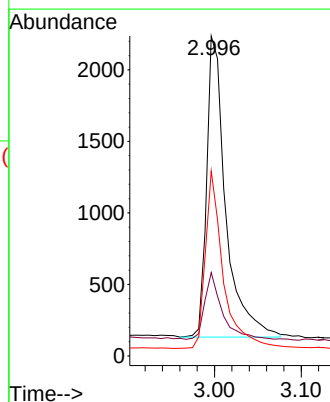
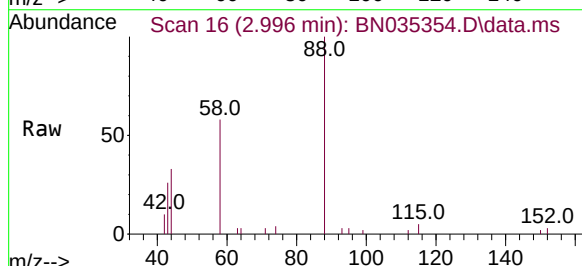
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	61.4	49.6	74.4

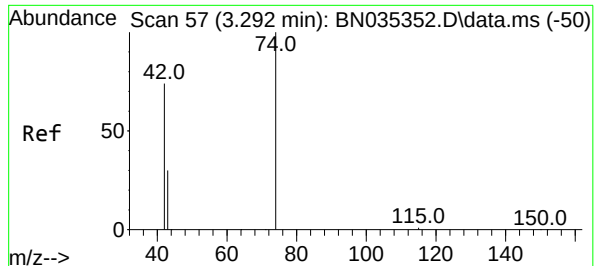


#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

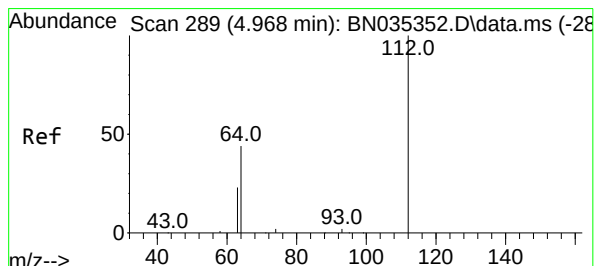
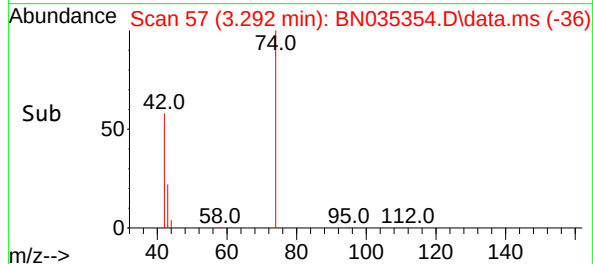
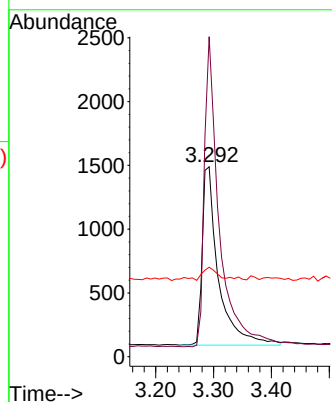
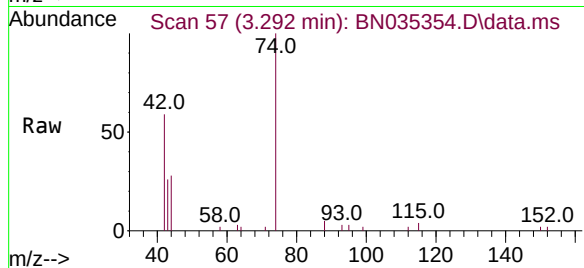




#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

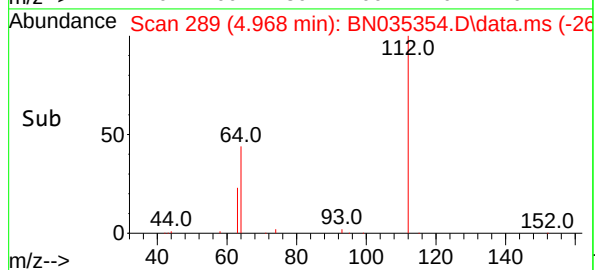
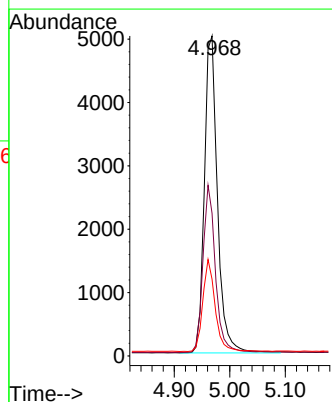
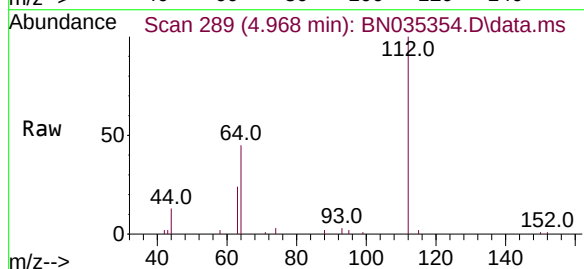
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

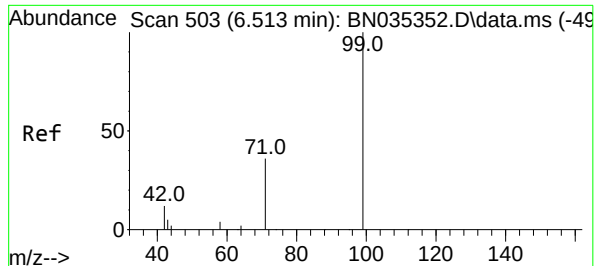
Tgt Ion: 42 Resp: 2729
Ion Ratio Lower Upper
42 100
74 160.4 124.9 187.3
44 6.2 2.2 3.4#



#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

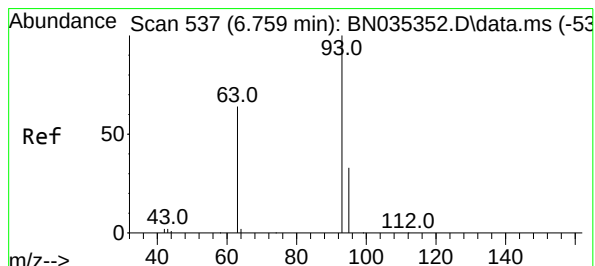
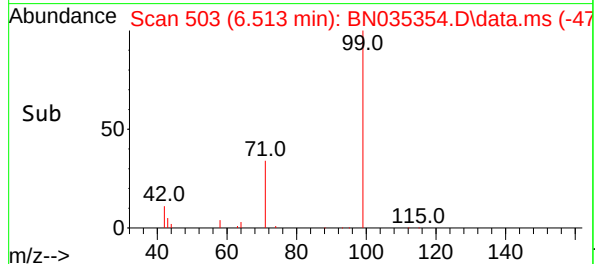
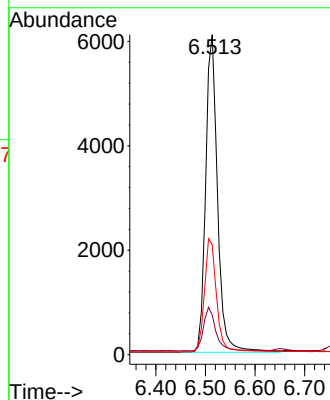
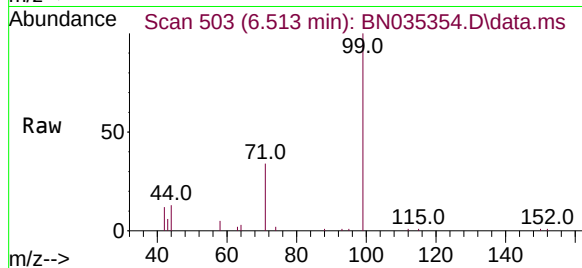




#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

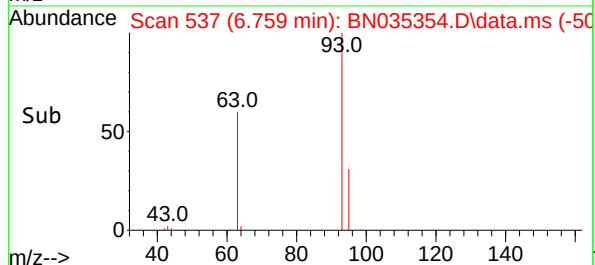
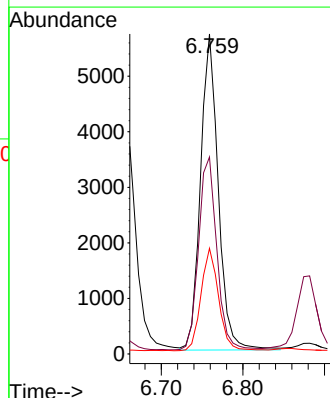
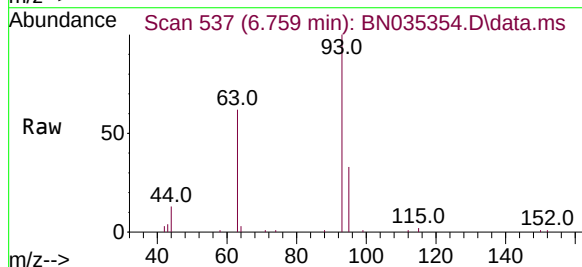
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

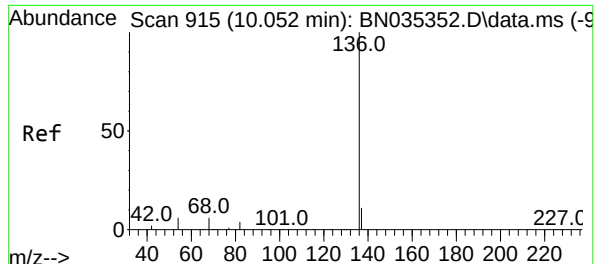
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9



#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	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5

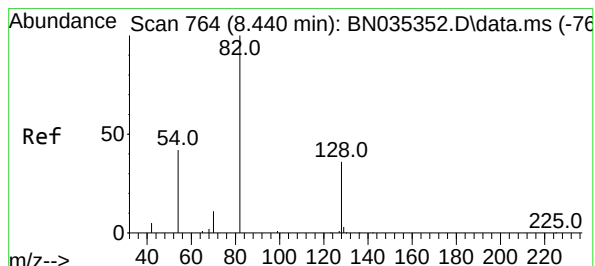
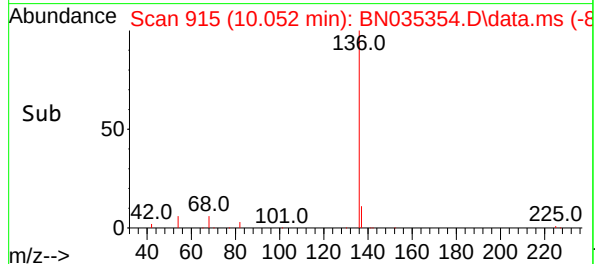
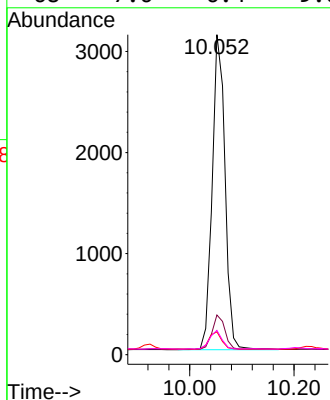
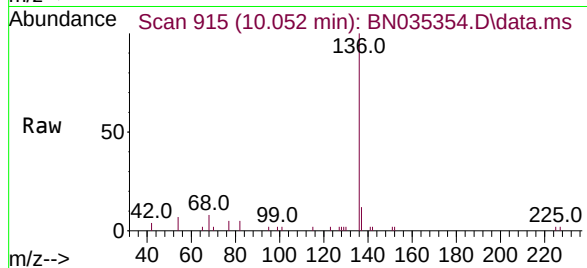




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

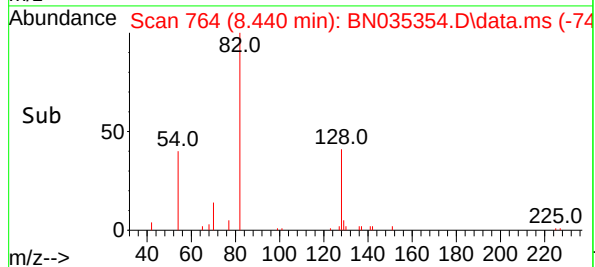
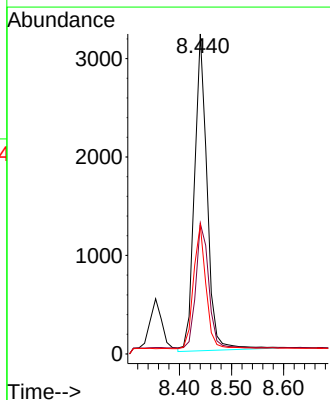
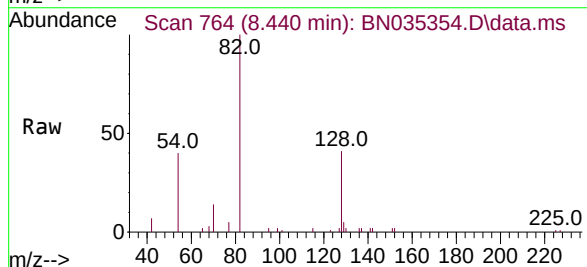
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

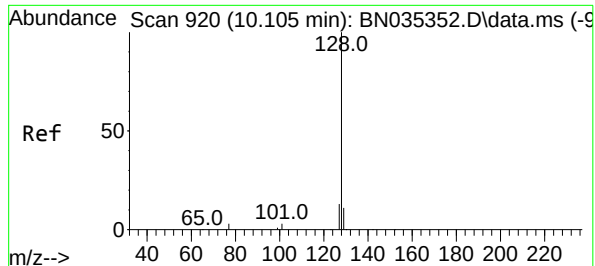
Tgt Ion:	136	Resp:	5309
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6



#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

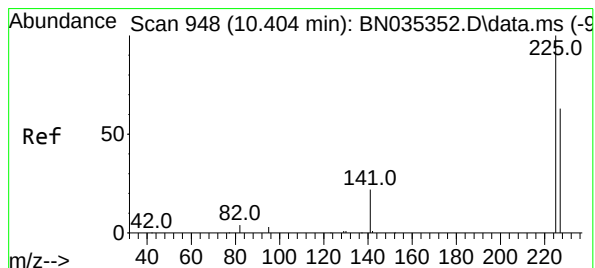
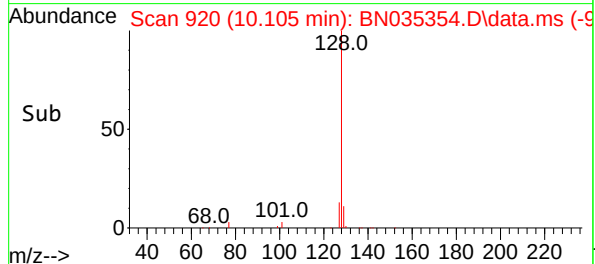
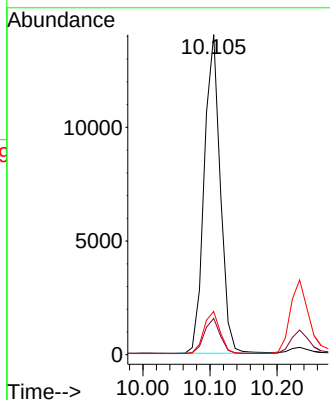
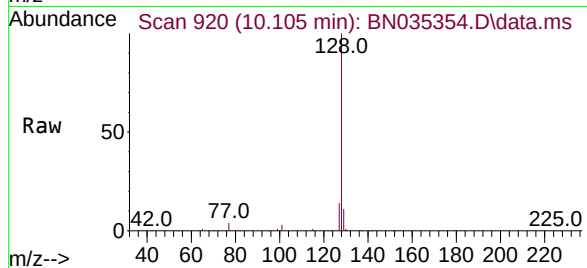


#9
Naphthalene

Concen: 1.680 ng
RT: 10.105 min Scan# 912
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

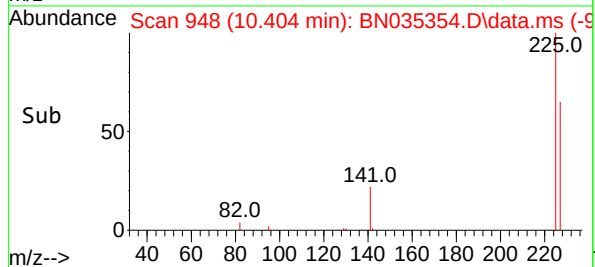
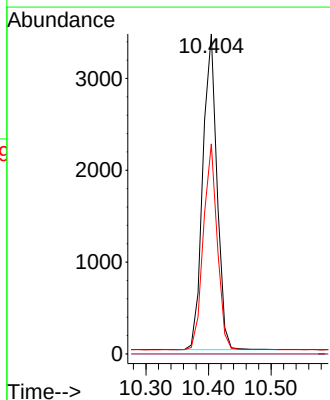
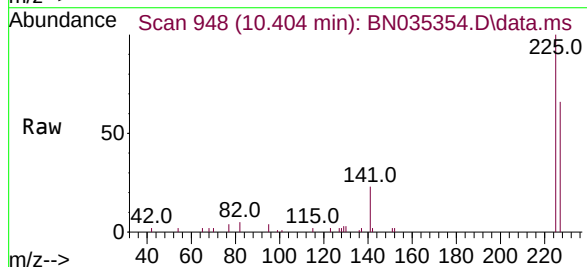


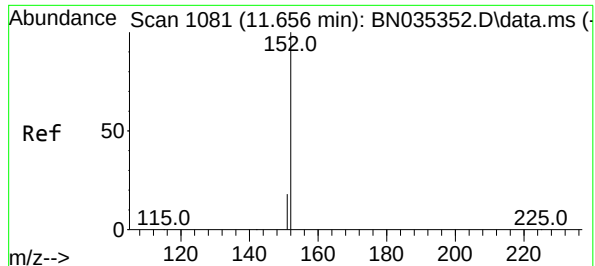
#10

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

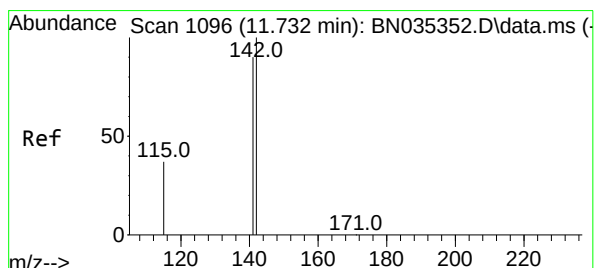
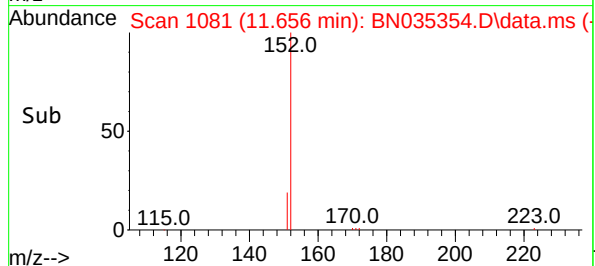
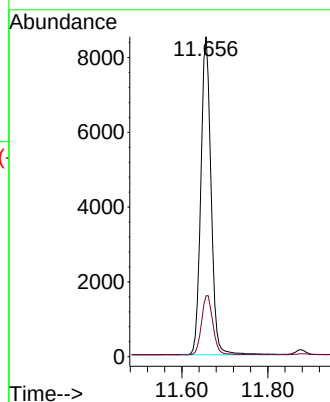
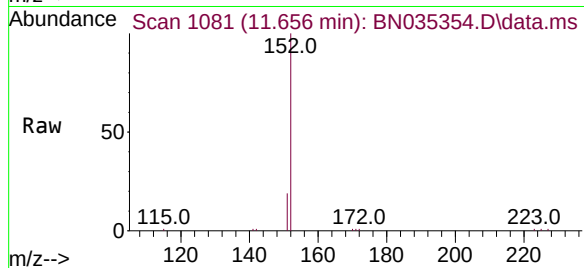




#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

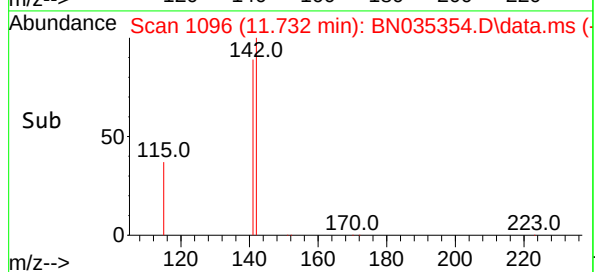
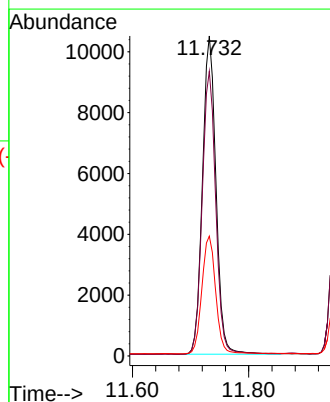
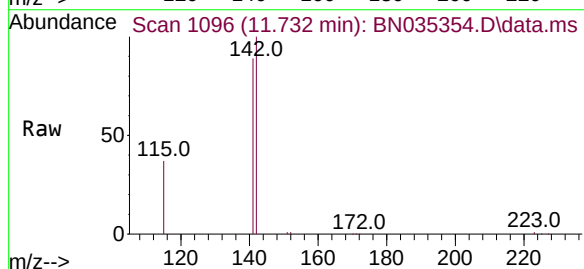
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

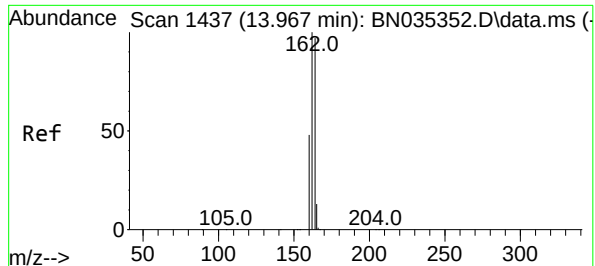
Tgt Ion:152 Resp: 13988
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

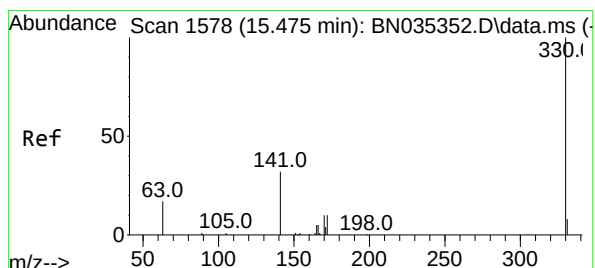
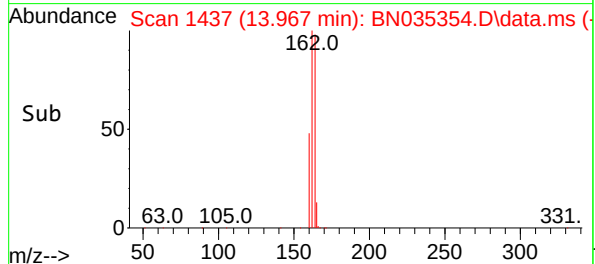
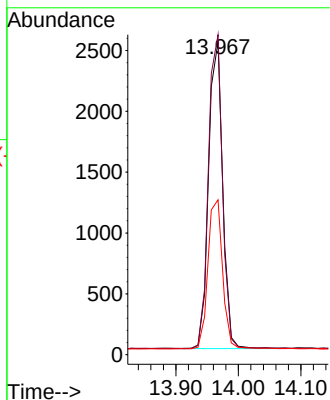
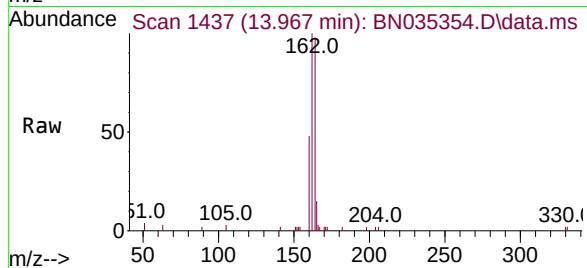




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

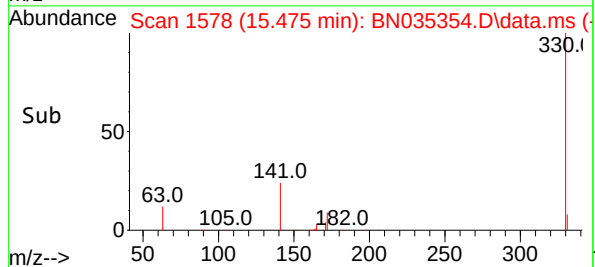
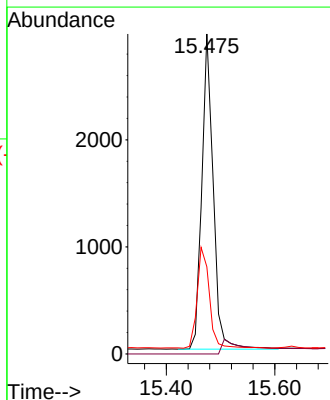
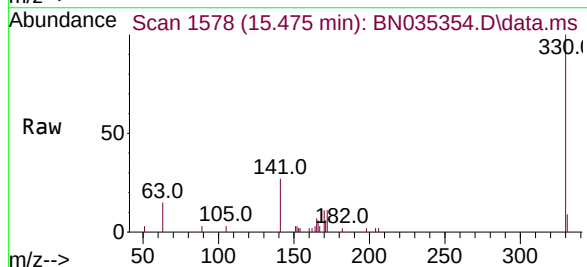
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

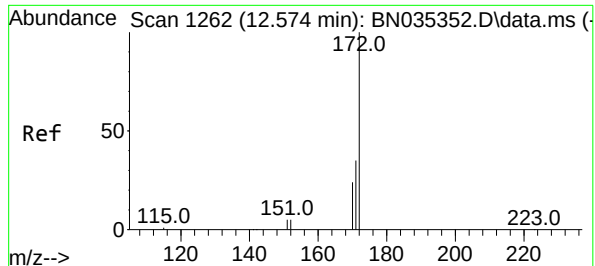
Tgt Ion:164 Resp: 3942
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 49.5 40.1 60.1



#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

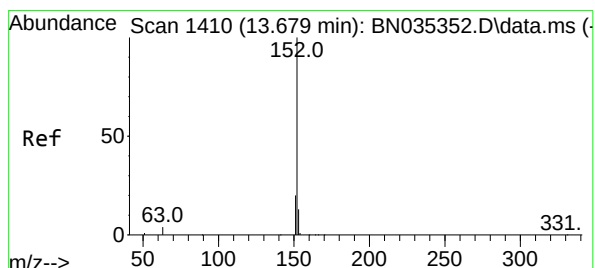
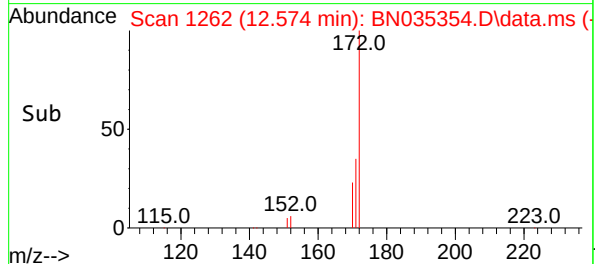
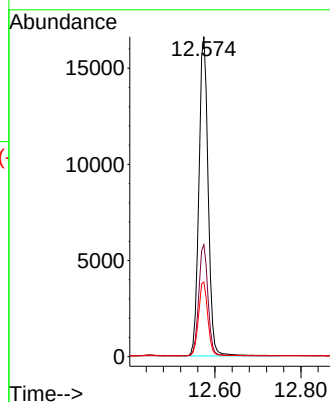
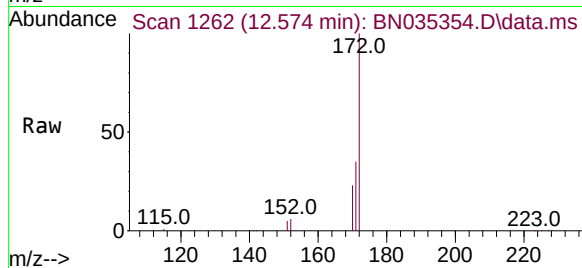




#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

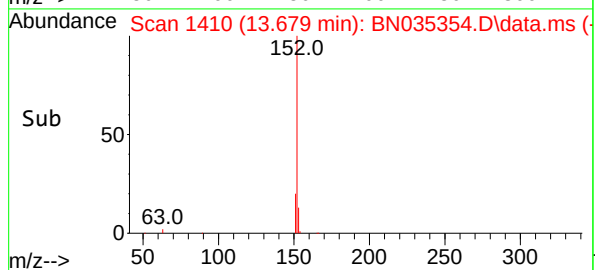
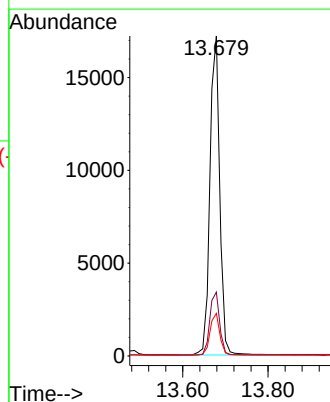
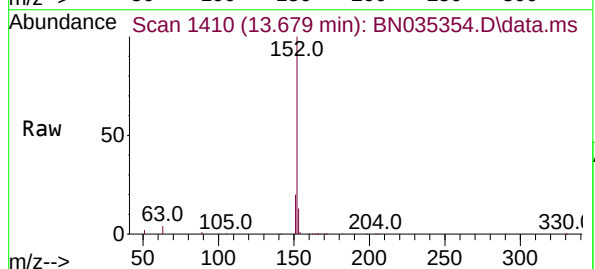
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

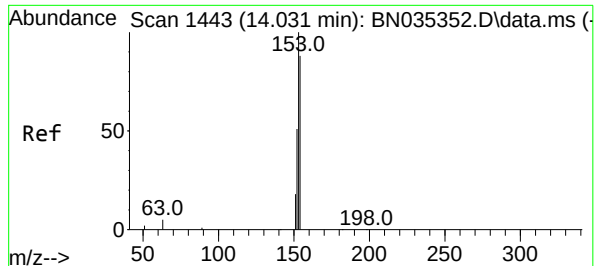
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8



#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	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6

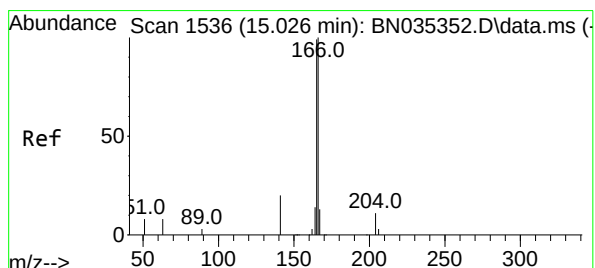
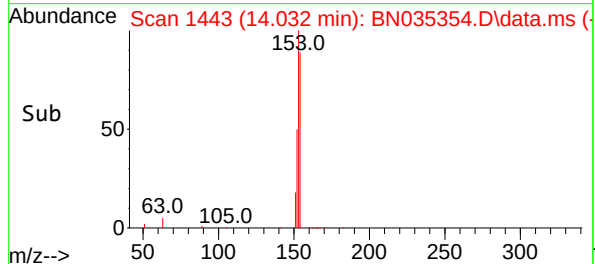
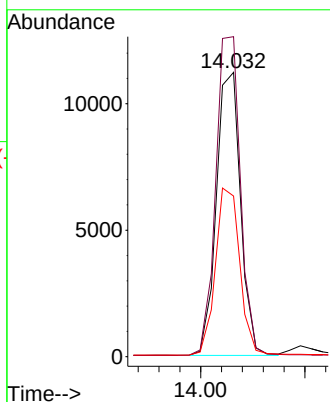
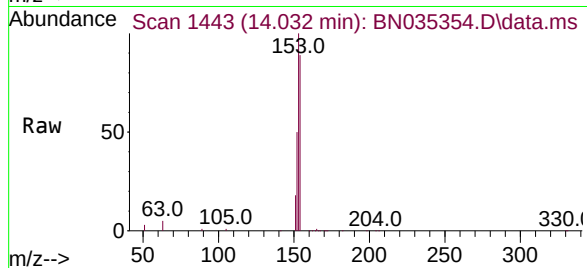




#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

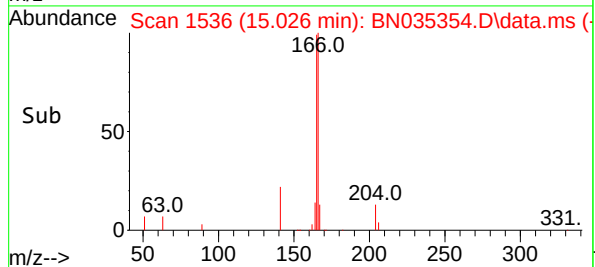
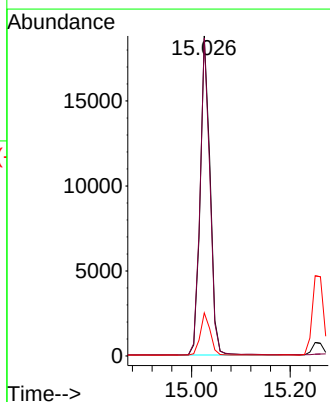
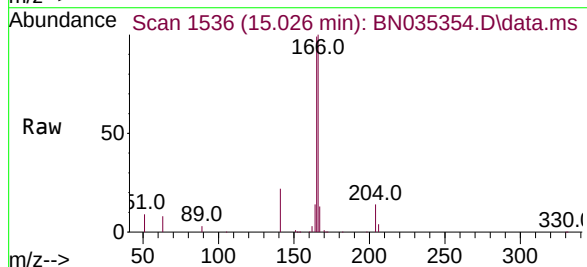
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

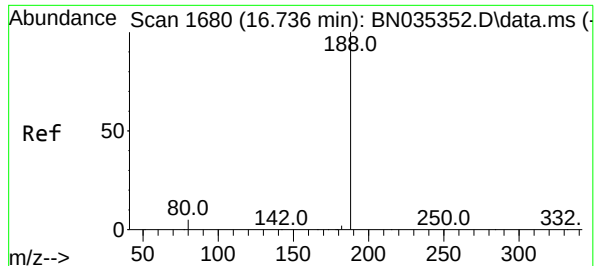
Tgt Ion:154 Resp: 18061
Ion Ratio Lower Upper
154 100
153 115.1 92.6 139.0
152 59.9 49.0 73.6



#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

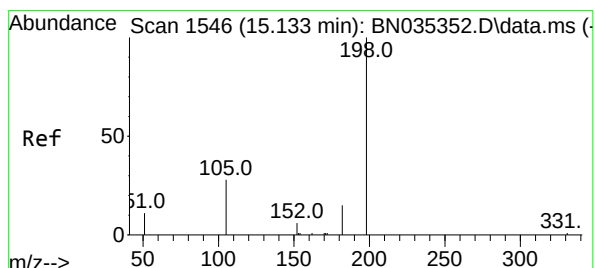
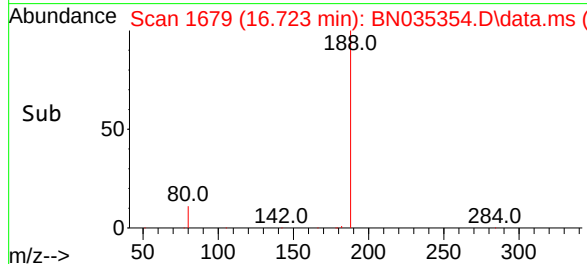
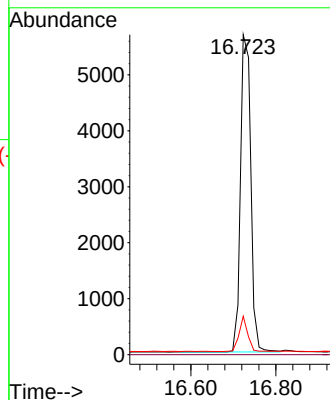
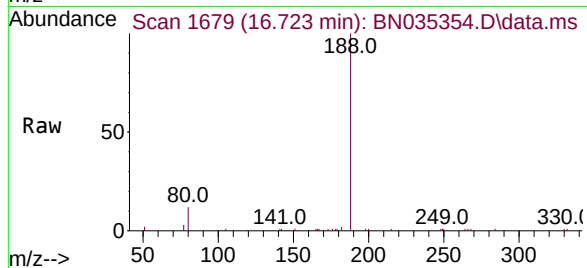
Tgt Ion:188 Resp: 9517

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

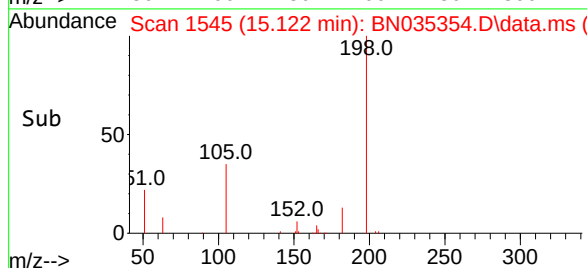
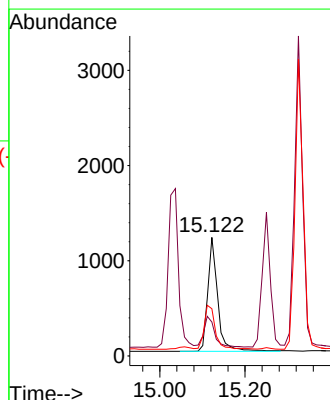
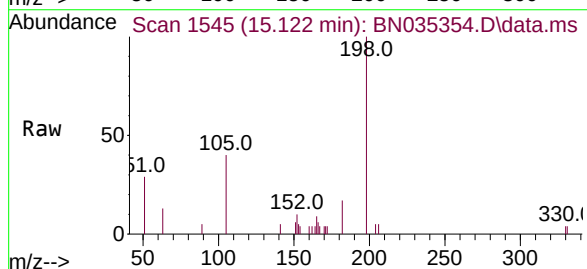
Tgt Ion:198 Resp: 1947

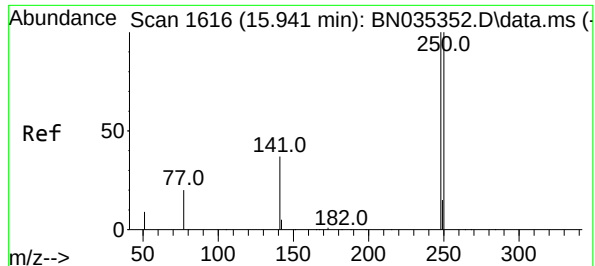
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

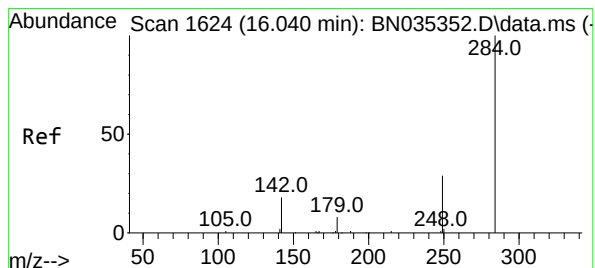
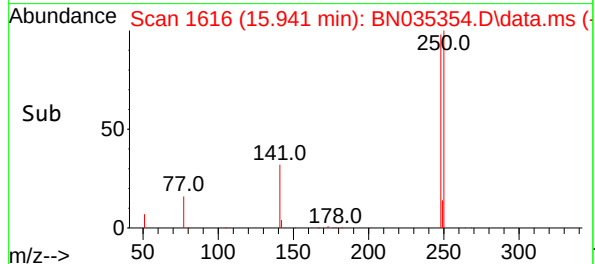
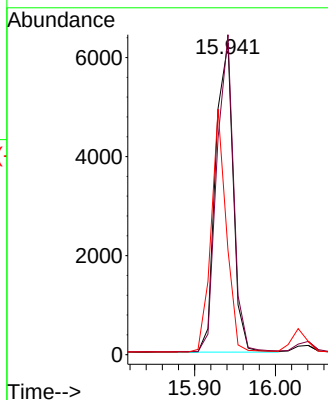
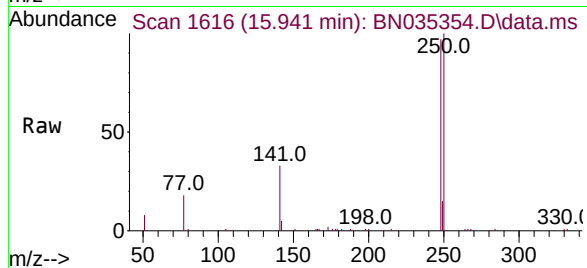




#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

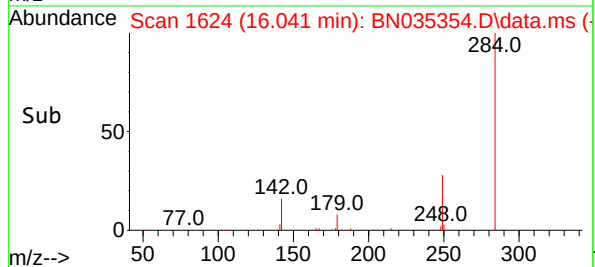
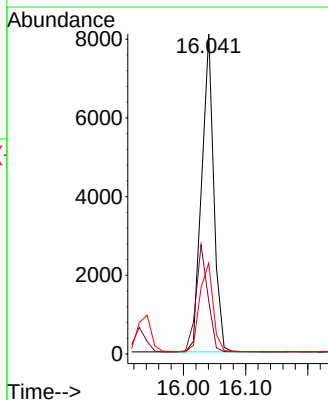
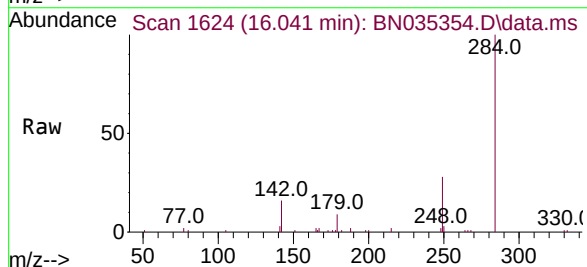
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

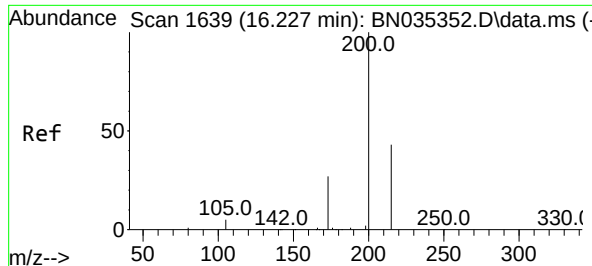
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3



#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	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.6	24.6	36.8

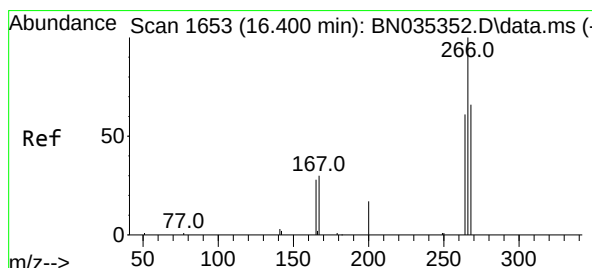
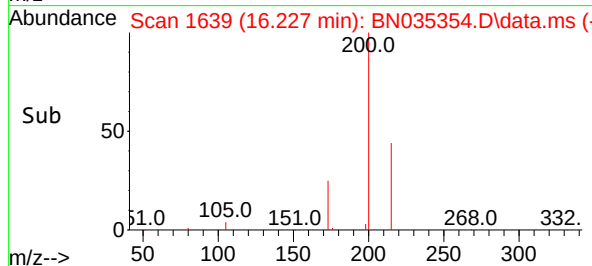
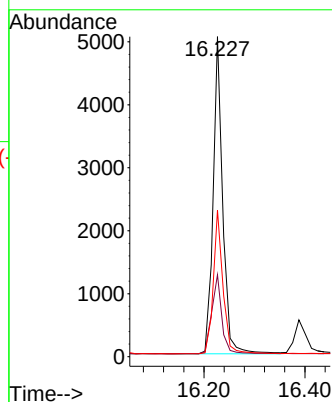
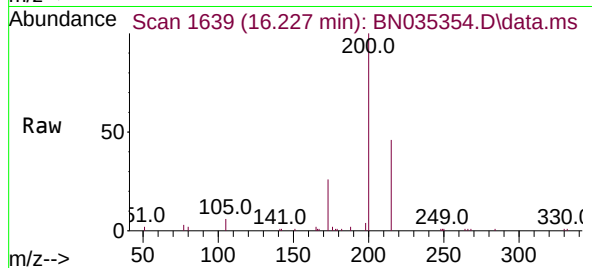




#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

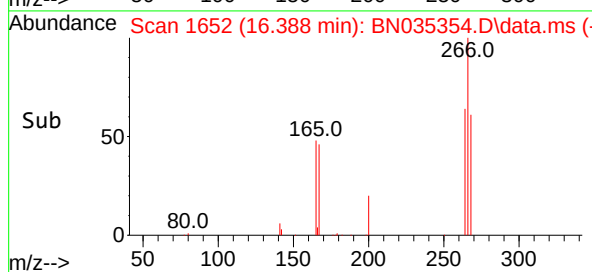
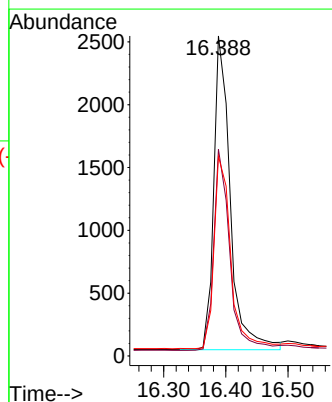
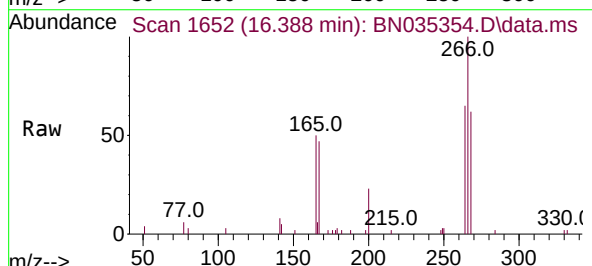
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

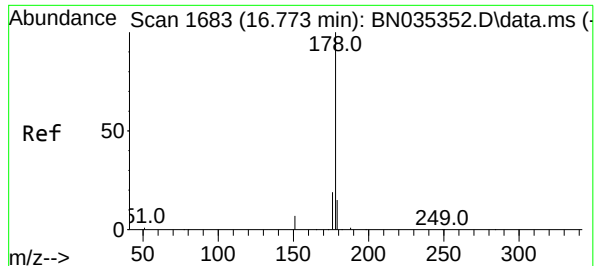
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3



#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	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9

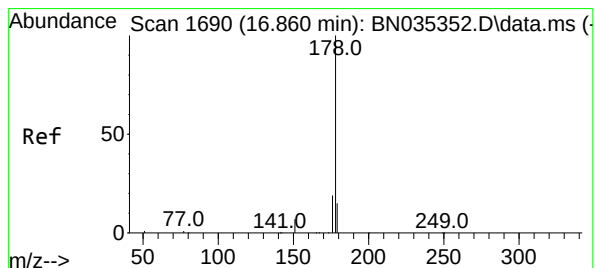
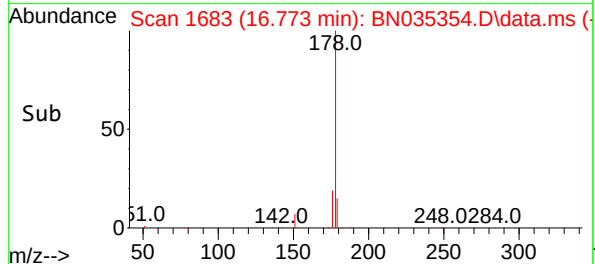
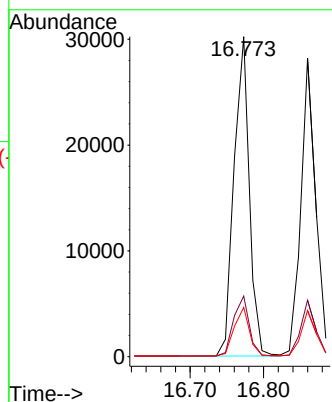
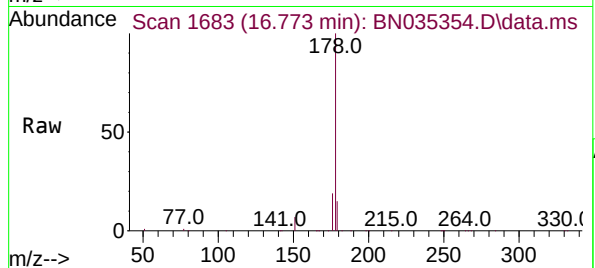




#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

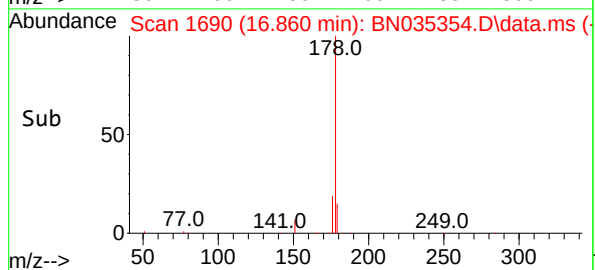
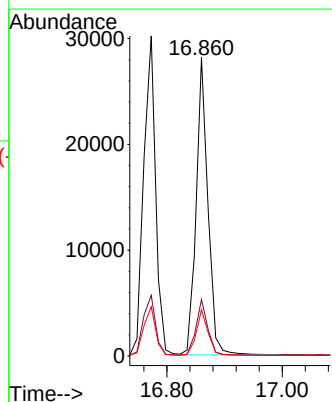
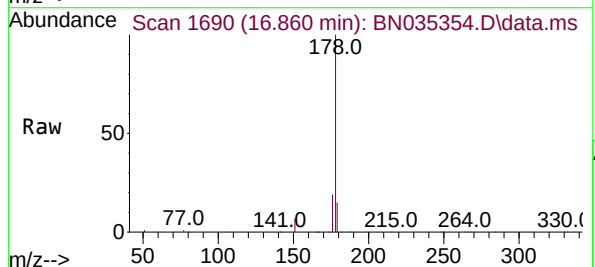
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

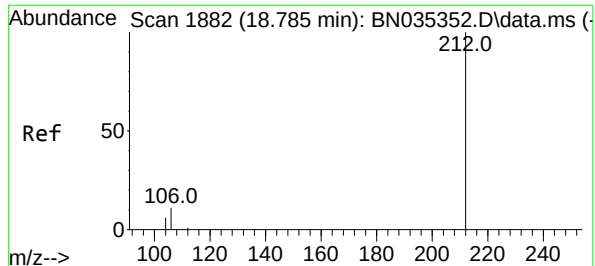
Tgt Ion:178 Resp: 43698
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.3 18.5



#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

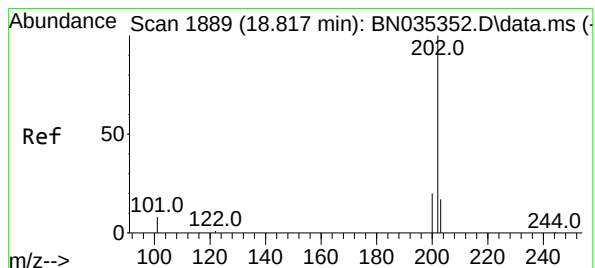
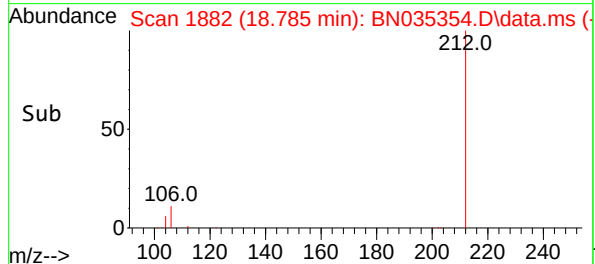
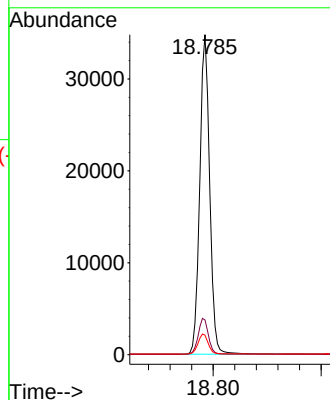
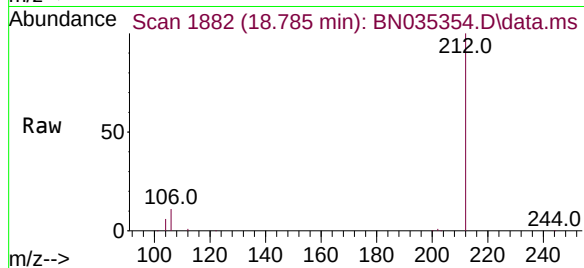




#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

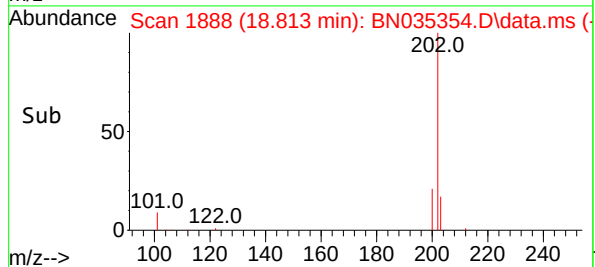
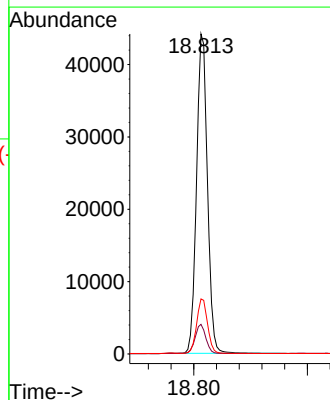
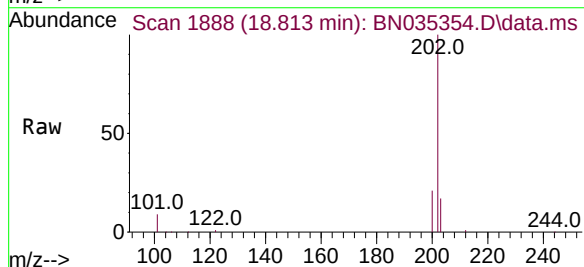
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

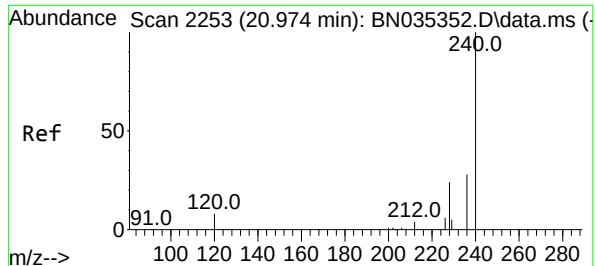
Tgt Ion:212 Resp: 44338
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.4 5.3 7.9



#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# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

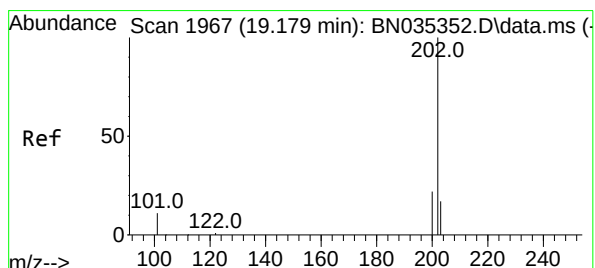
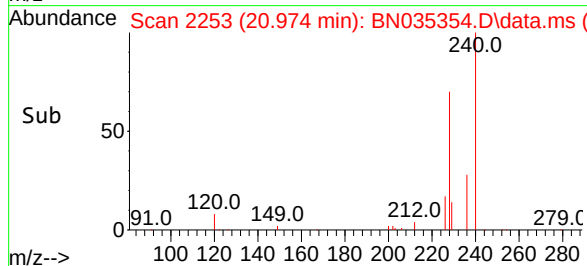
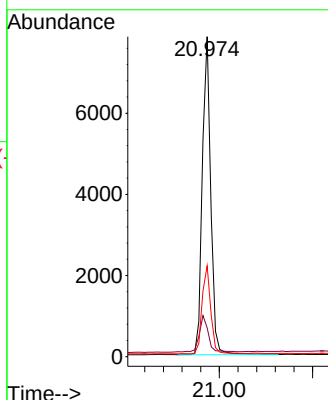
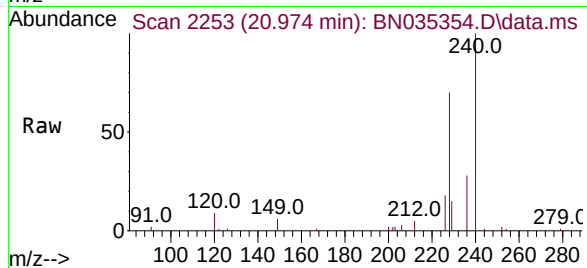
Tgt Ion:240 Resp: 9905

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

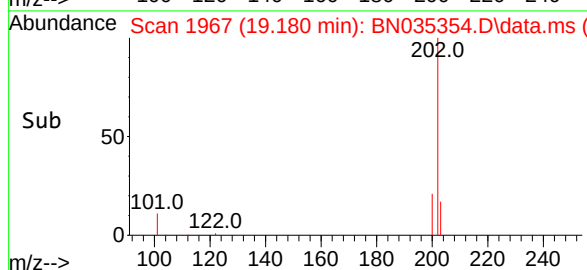
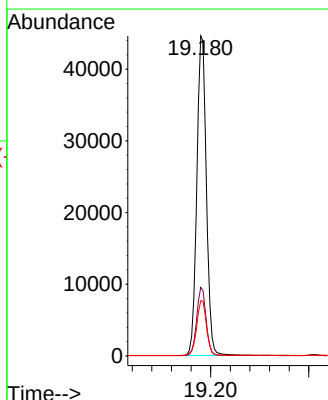
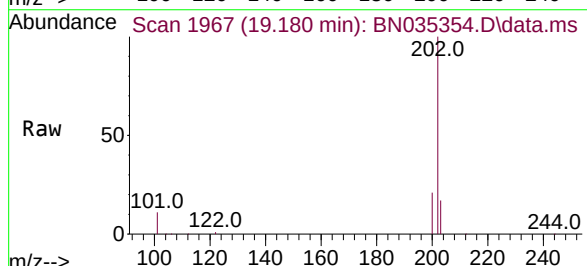
Tgt Ion:202 Resp: 60164

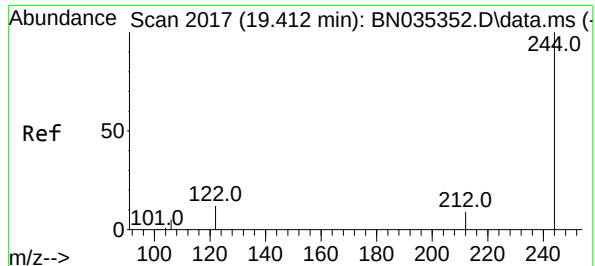
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

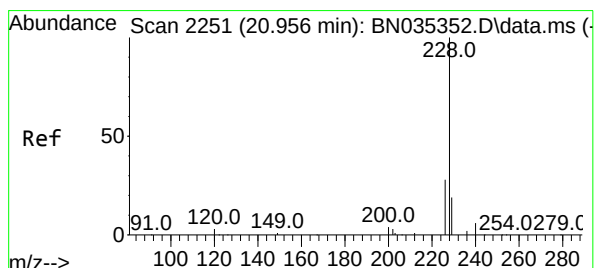
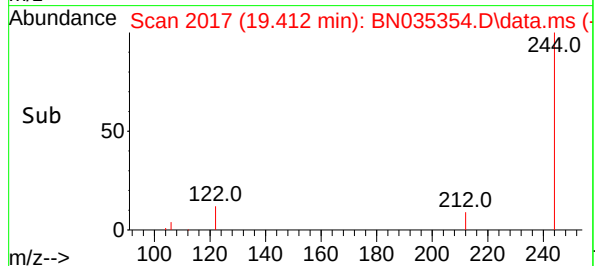
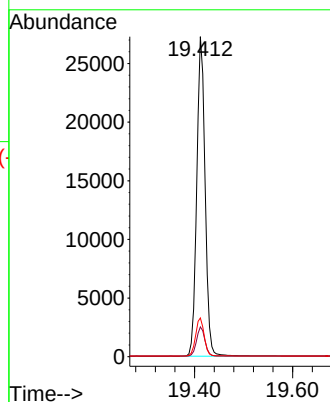
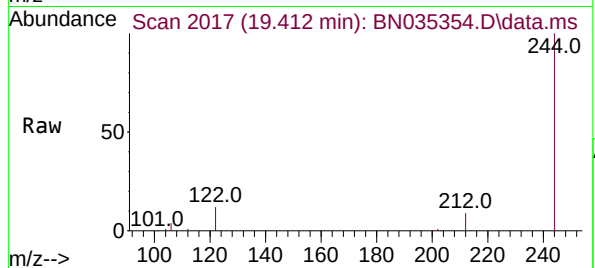




#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

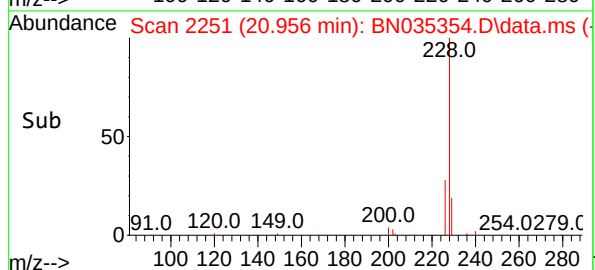
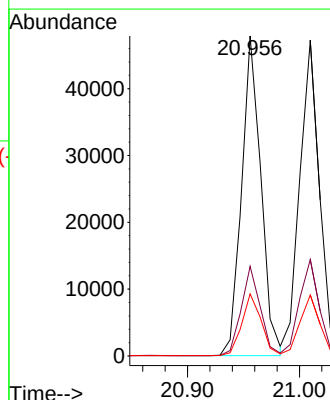
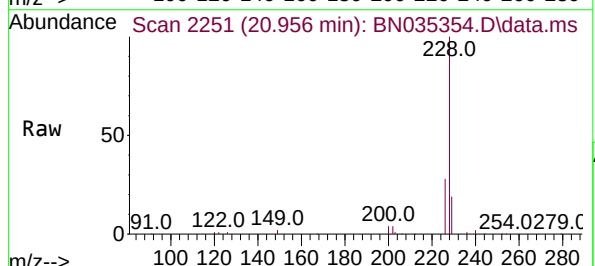
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

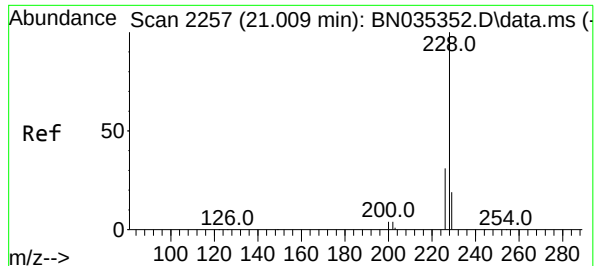
Tgt Ion:244 Resp: 32174
Ion Ratio Lower Upper
244 100
212 9.3 8.1 12.1
122 12.1 10.3 15.5



#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# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

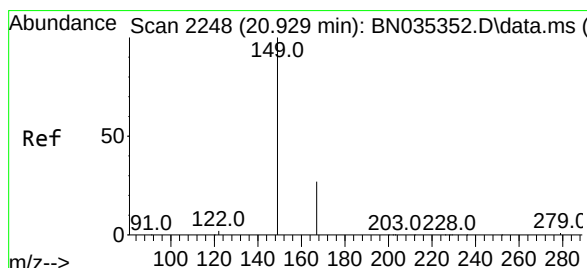
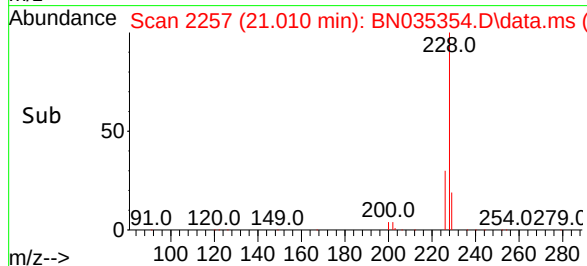
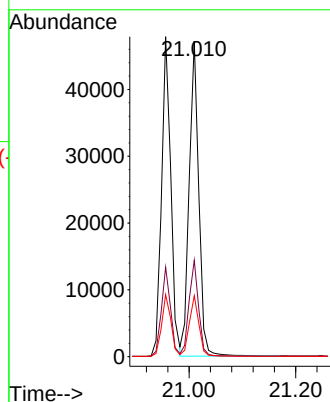
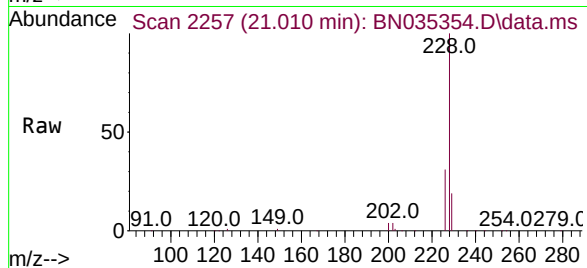
Tgt Ion:228 Resp: 58919

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

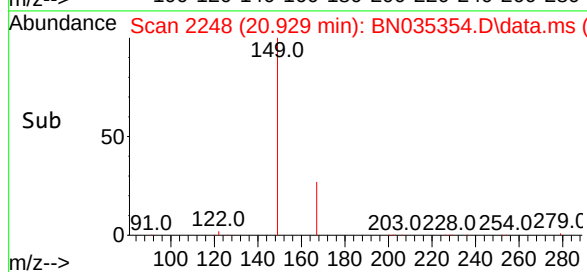
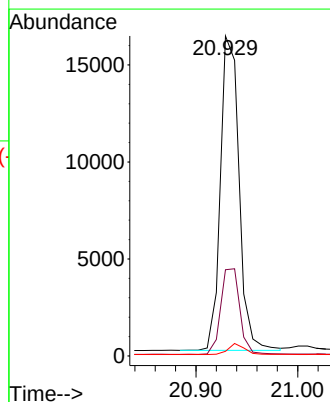
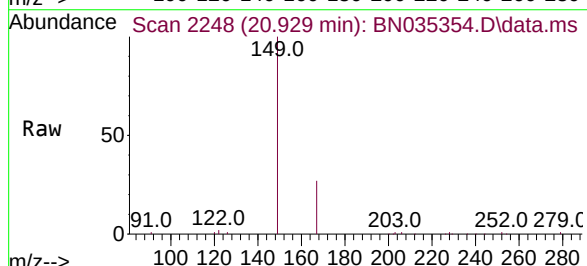
Tgt Ion:149 Resp: 20598

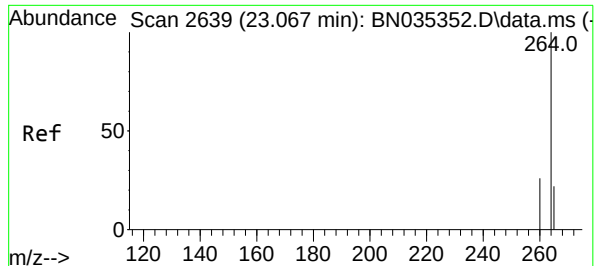
Ion Ratio Lower Upper

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

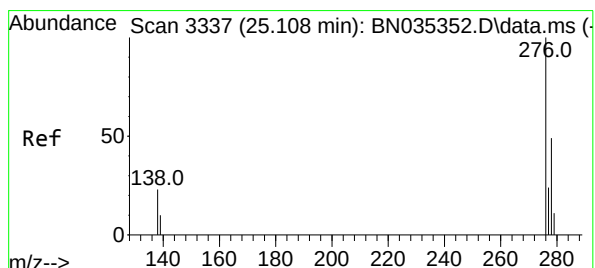
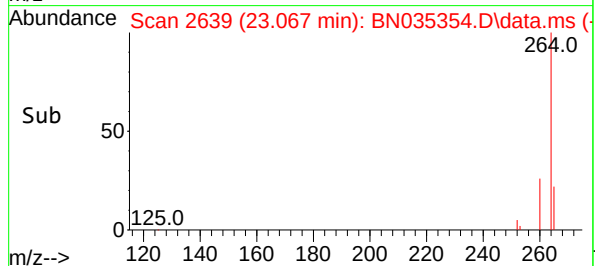
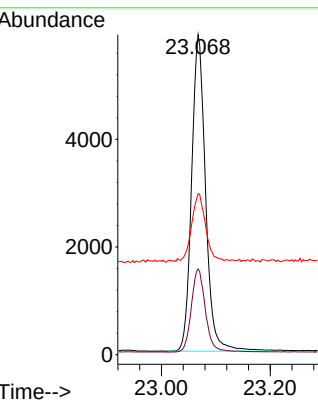
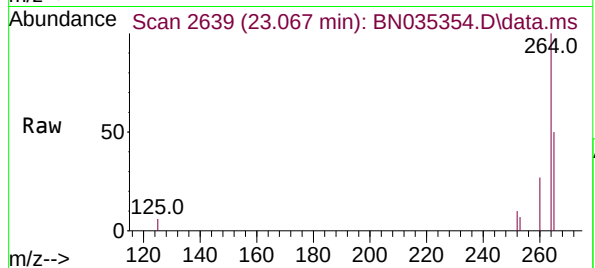
Tgt Ion:264 Resp: 10469

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

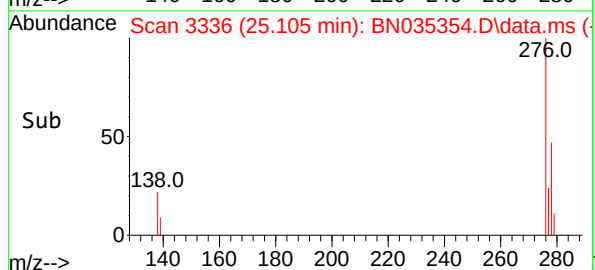
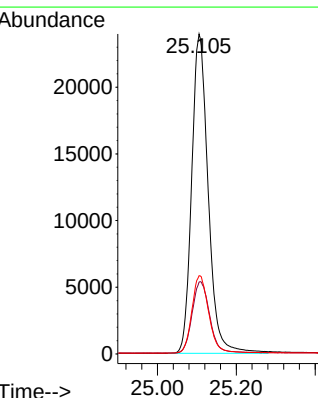
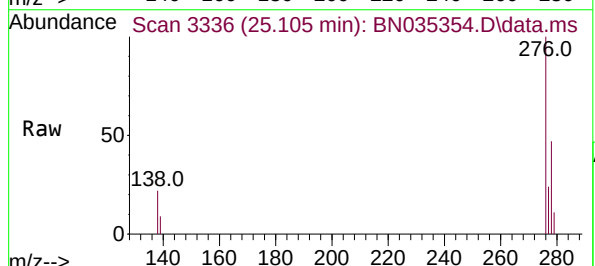
Tgt Ion:276 Resp: 69517

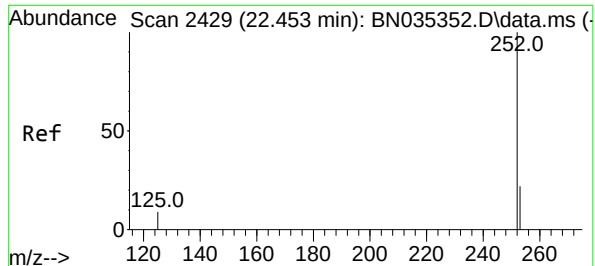
Ion Ratio Lower Upper

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# 2429

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

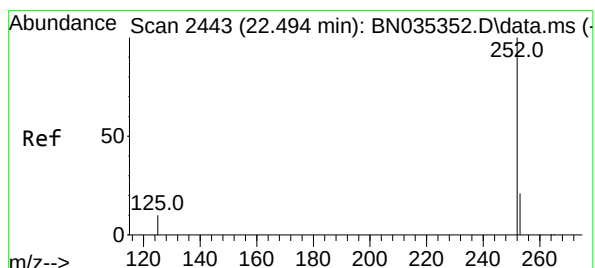
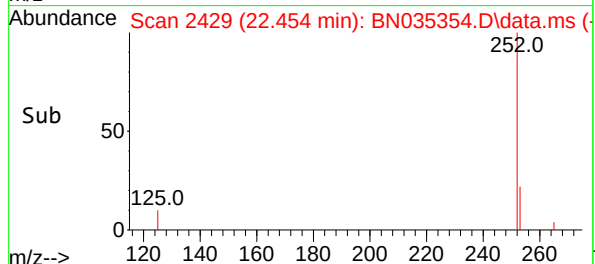
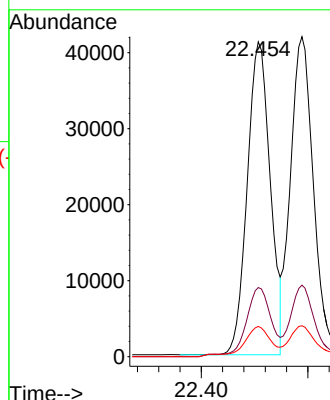
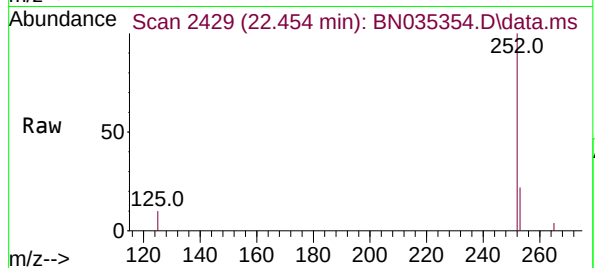
Tgt Ion:252 Resp: 76506

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

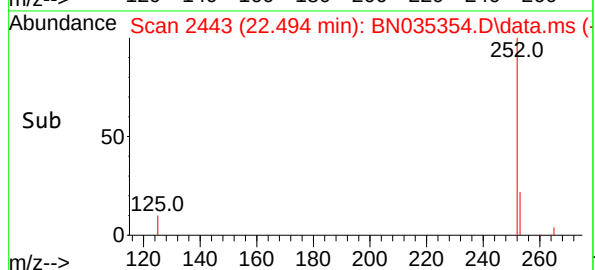
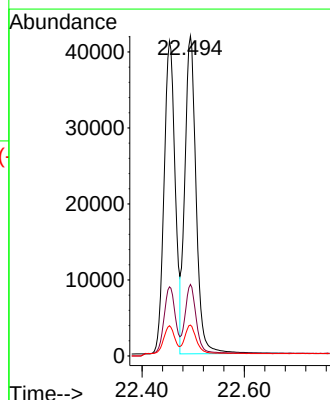
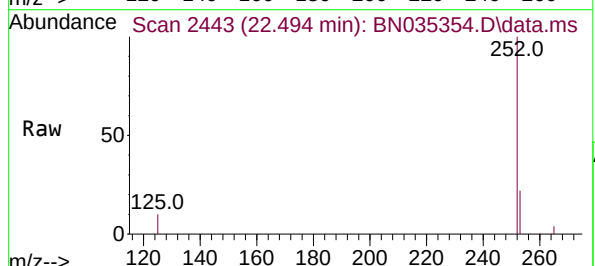
Tgt Ion:252 Resp: 63925

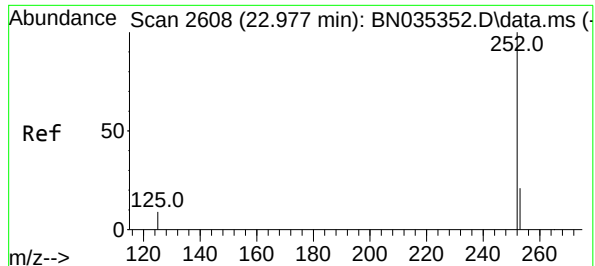
Ion Ratio Lower Upper

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# 2608

Delta R.T. 0.000 min

Lab File: BN035354.D

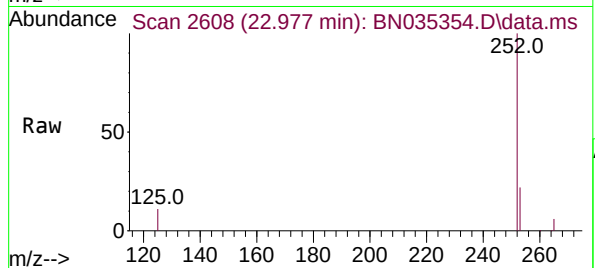
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



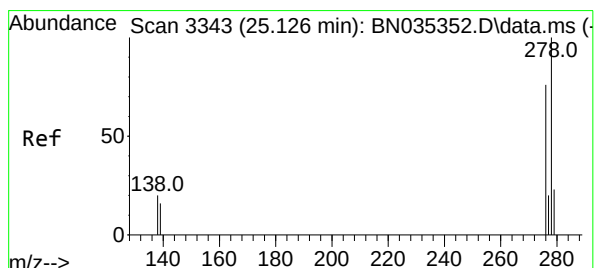
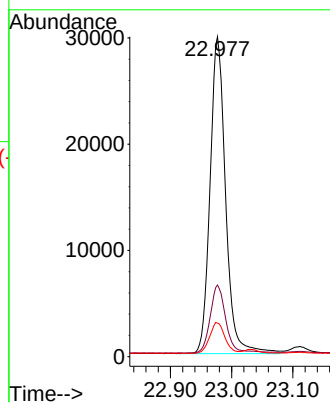
Tgt Ion:252 Resp: 52595

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

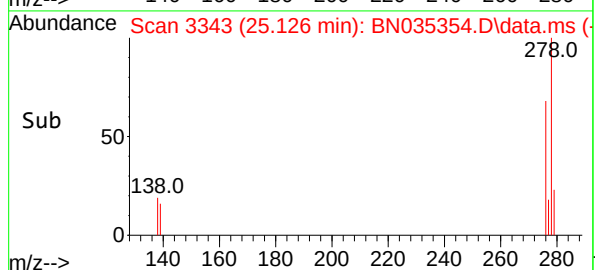
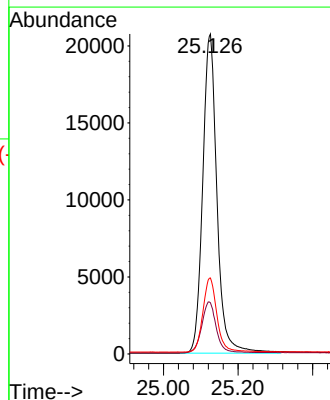
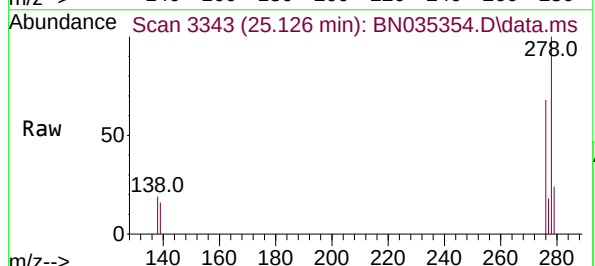
Tgt Ion:278 Resp: 55068

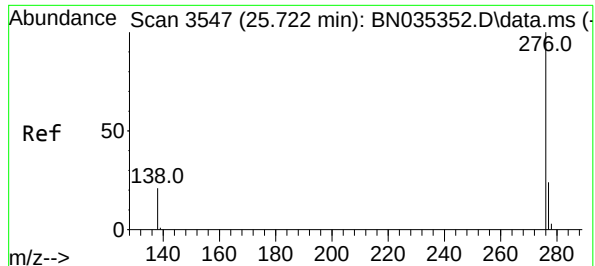
Ion Ratio Lower Upper

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

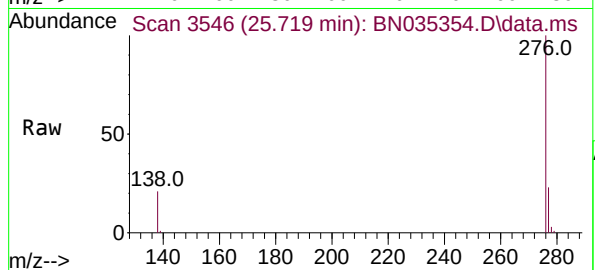
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



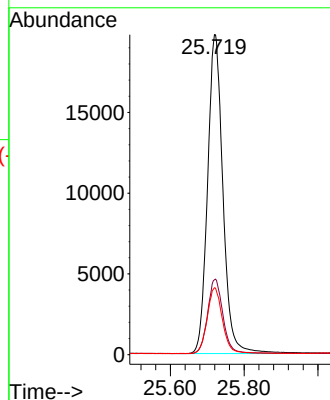
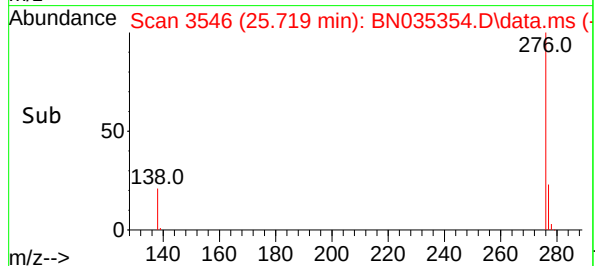
Tgt Ion:276 Resp: 56947

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

138 20.9 17.8 26.8



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)

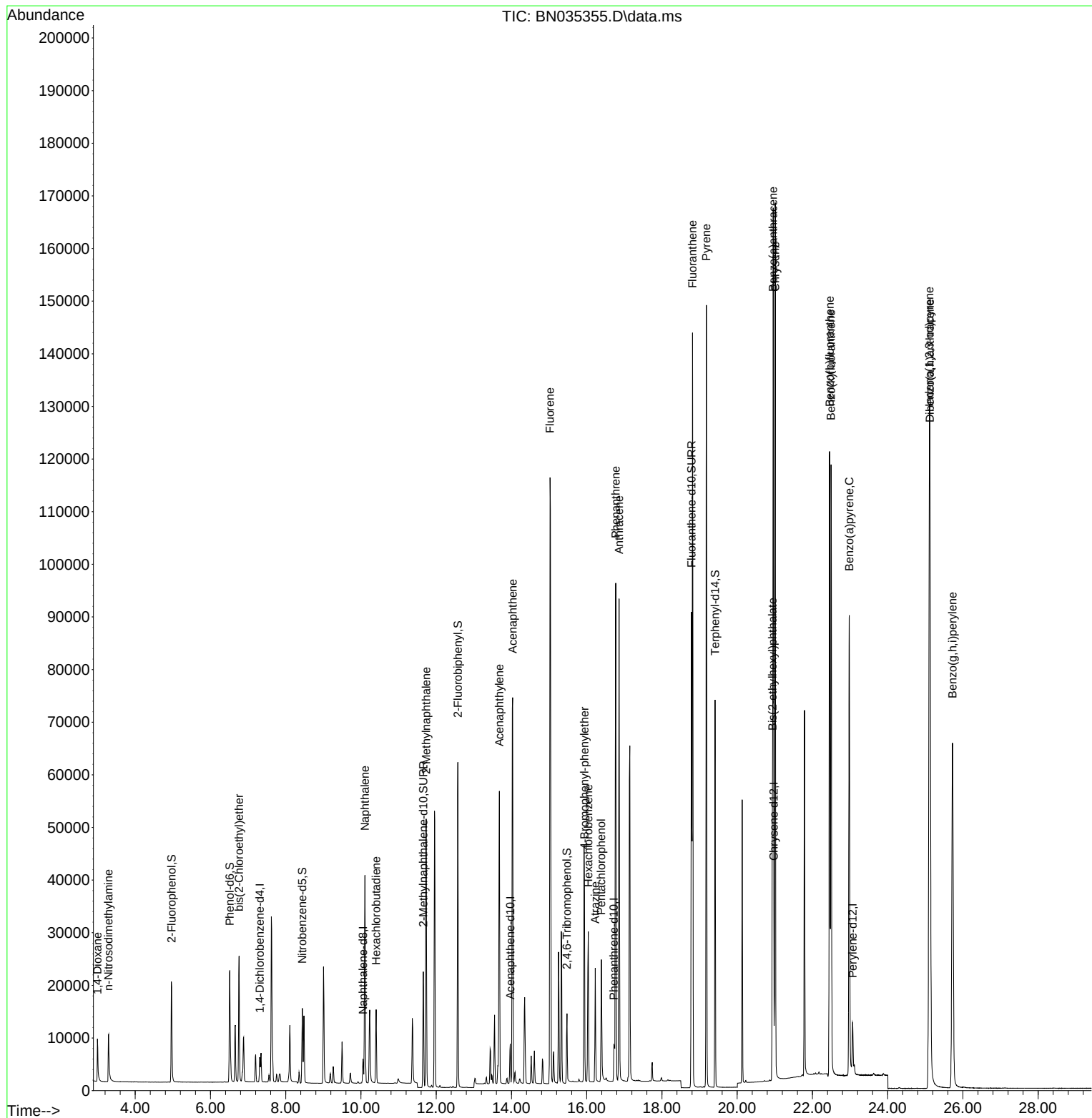
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng	0.00
35) Perylene-d12	23.067	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

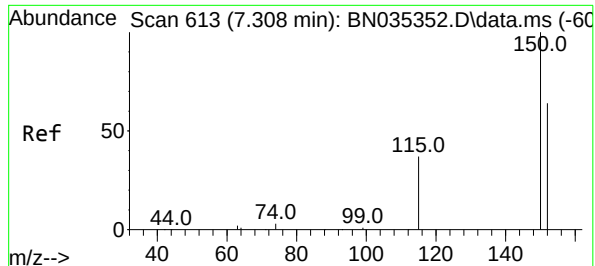
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Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

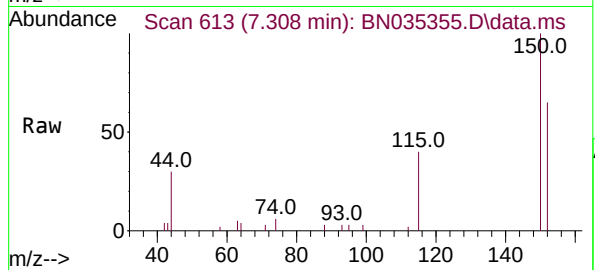
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



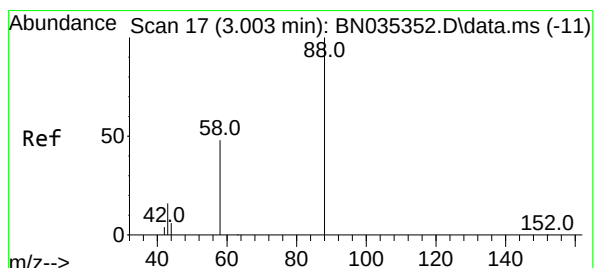
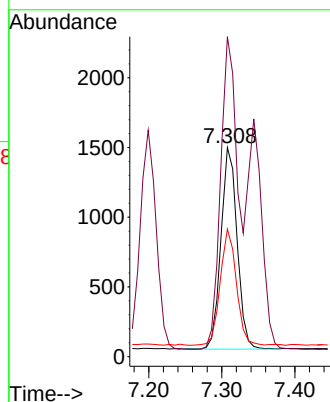
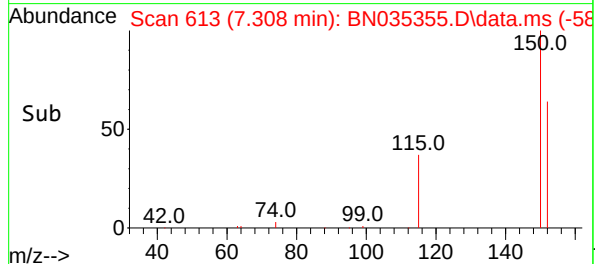


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

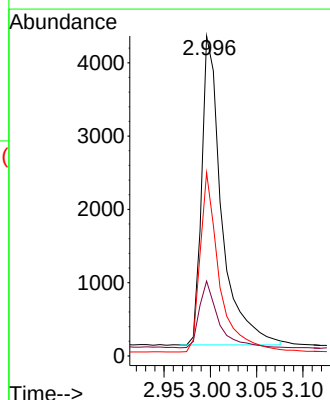
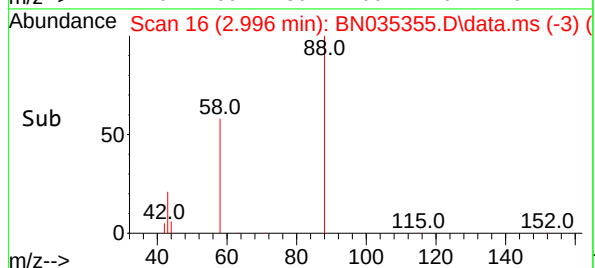
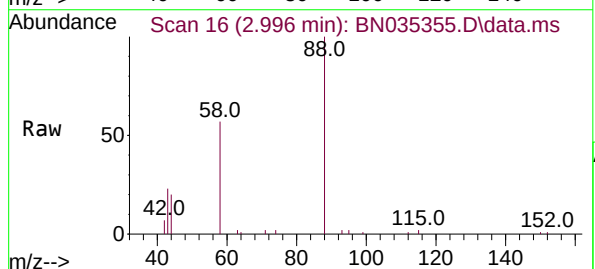


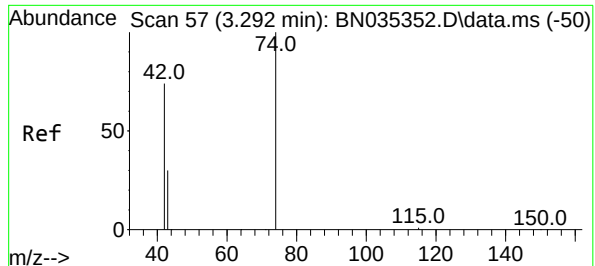
Tgt Ion:152 Resp: 2226
Ion Ratio Lower Upper
152 100
150 153.0 124.0 186.0
115 61.0 49.6 74.4



#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

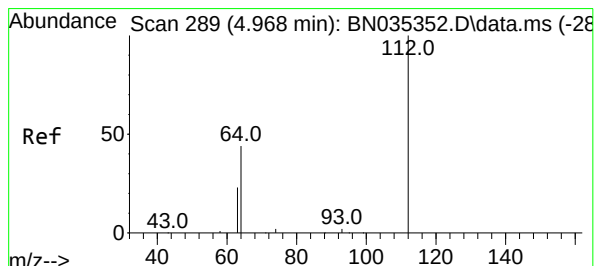
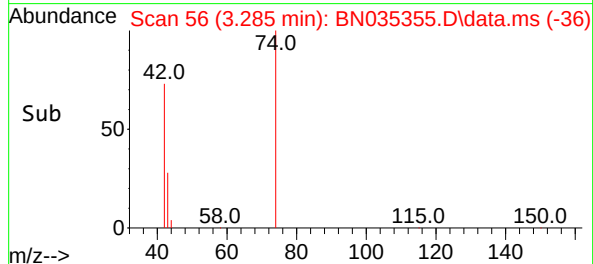
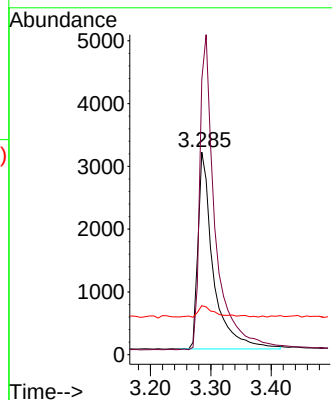
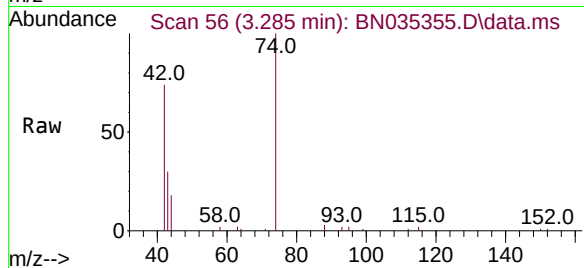




#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

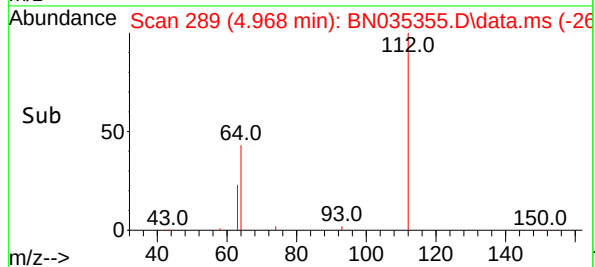
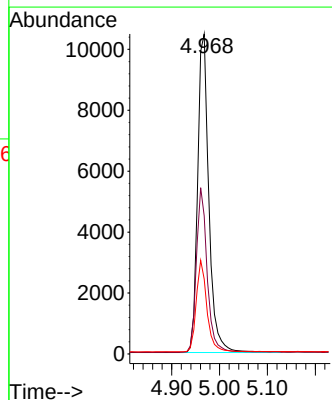
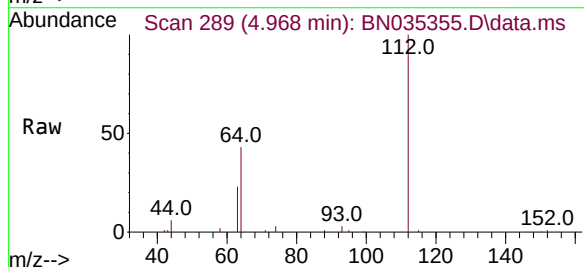
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ClientSampleId :
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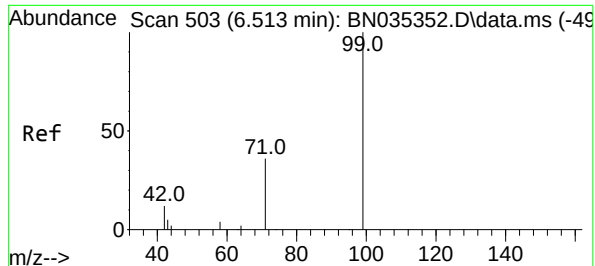
Tgt Ion: 42 Resp: 5524
Ion Ratio Lower Upper
42 100
74 162.0 124.9 187.3
44 6.4 2.2 3.4#



#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

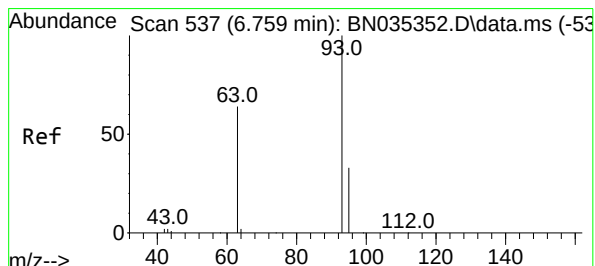
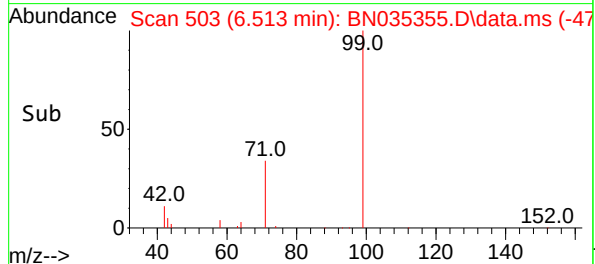
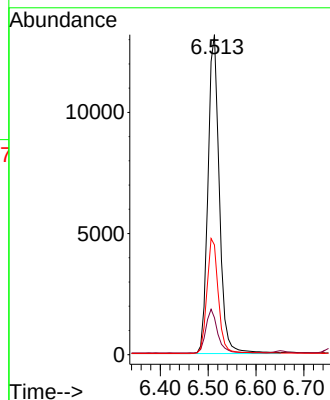
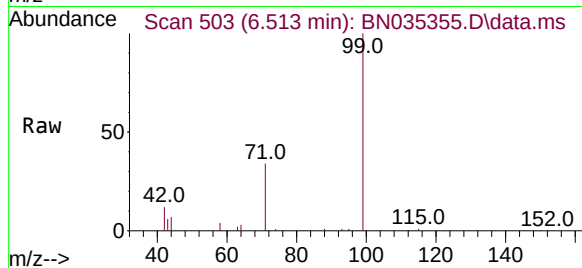




#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

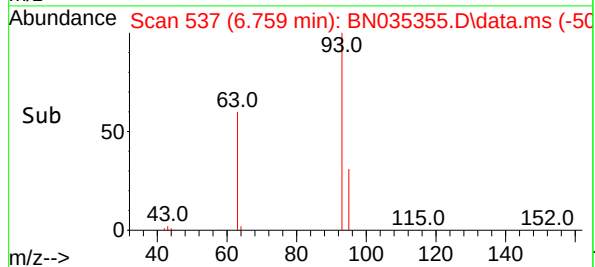
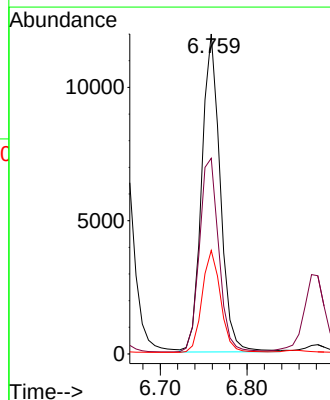
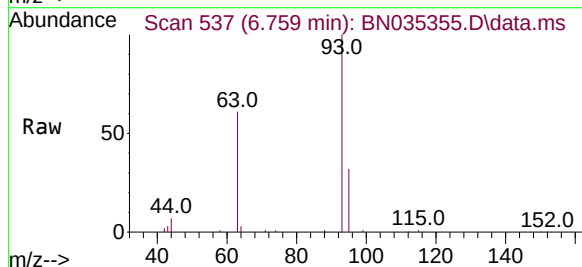
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BNA_N
ClientSampleId :
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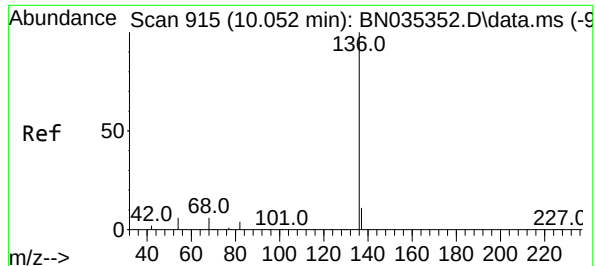
Tgt Ion: 99 Resp: 21633
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.5 29.3 43.9



#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

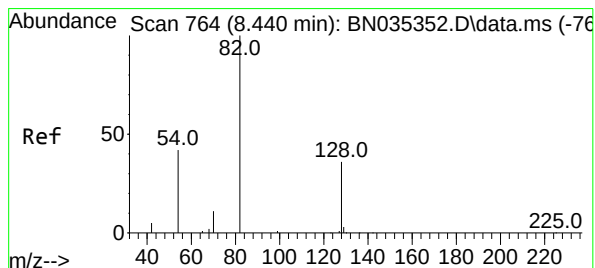
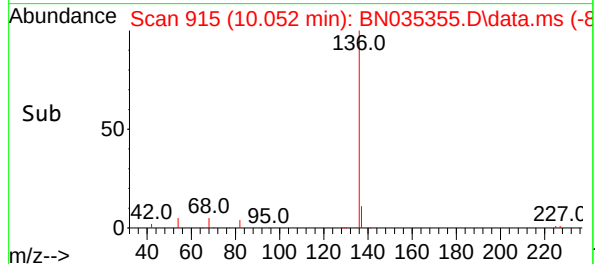
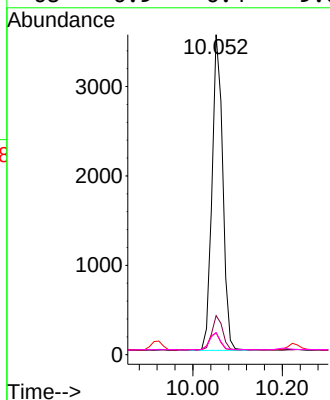
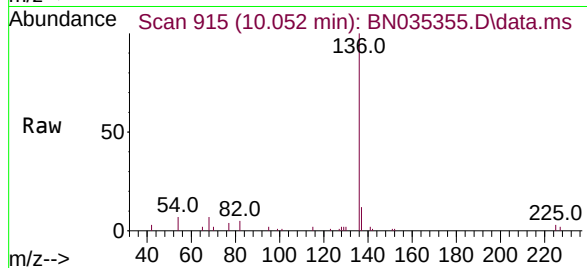




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

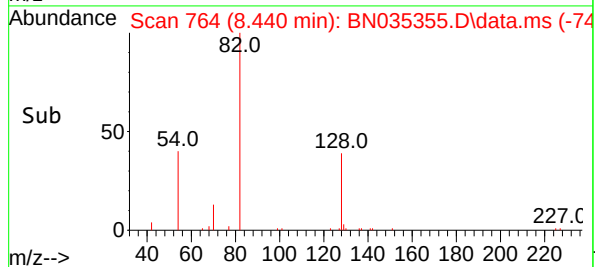
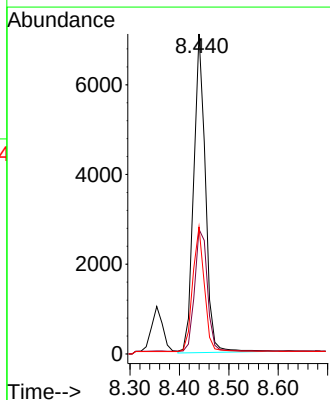
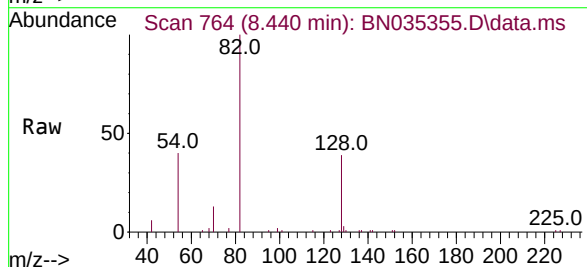
Instrument :
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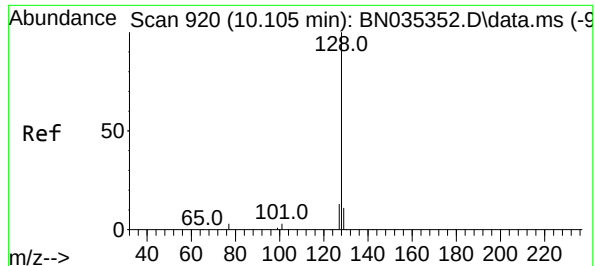
Tgt Ion:	136	Resp:	5857
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6



#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

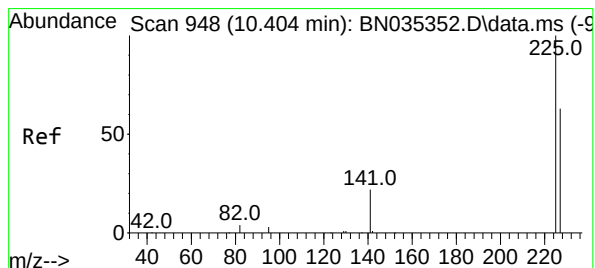
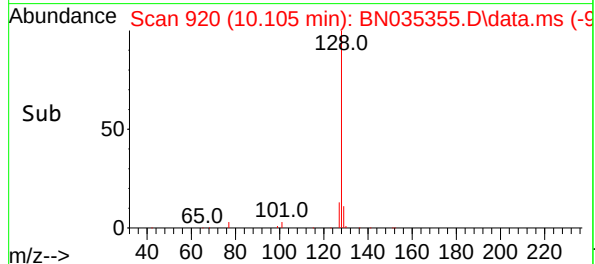
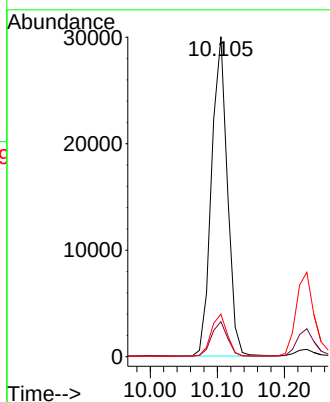
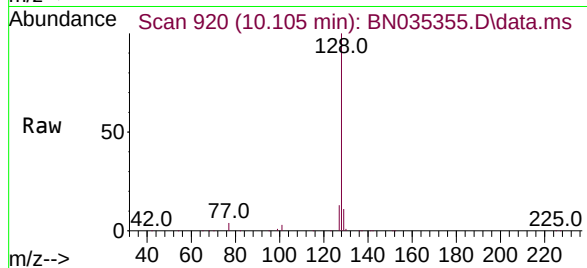




#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

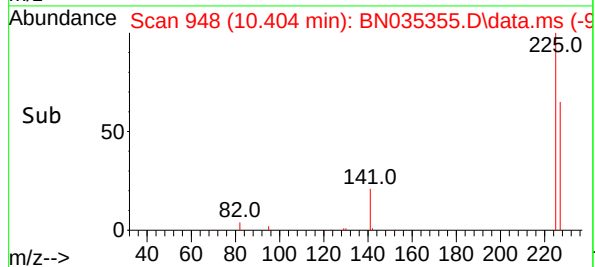
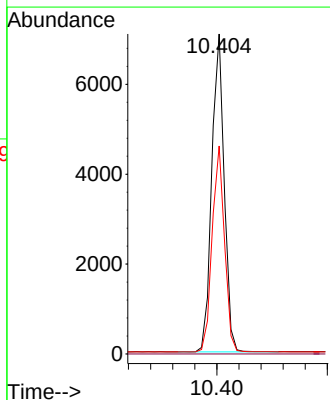
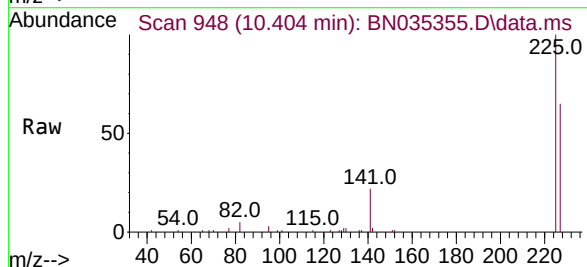
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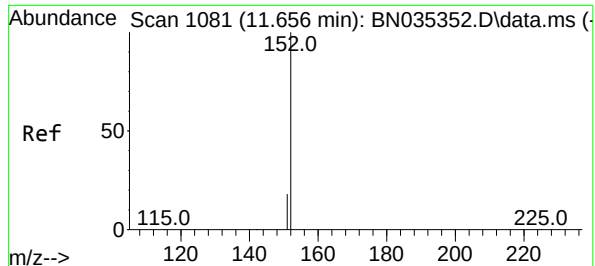
Tgt Ion:128 Resp: 49151
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.3 11.4 17.2



#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

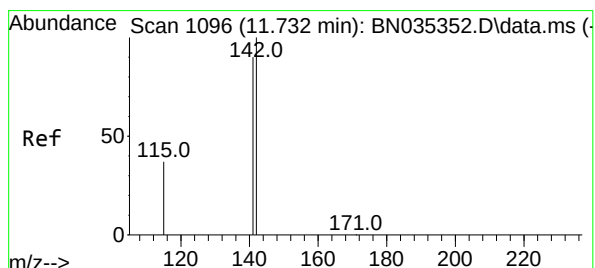
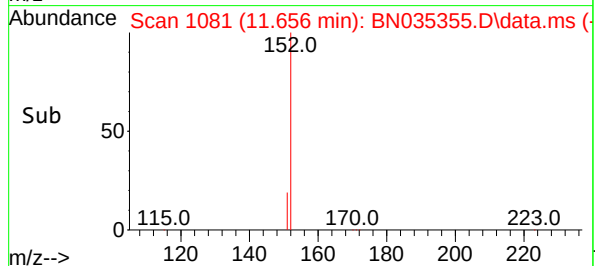
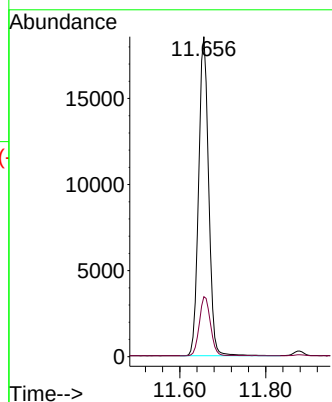
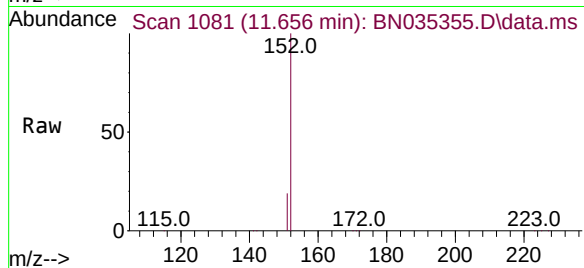




#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

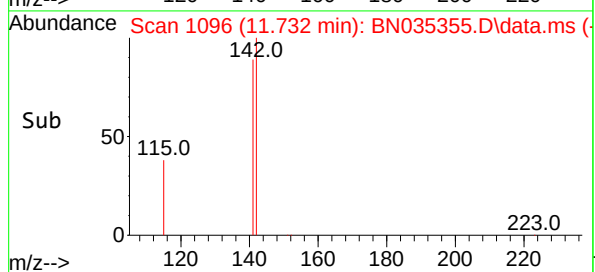
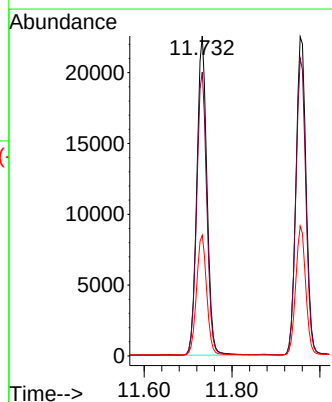
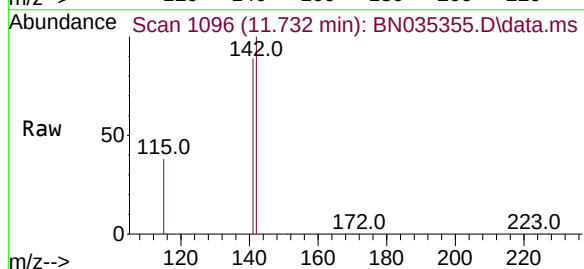
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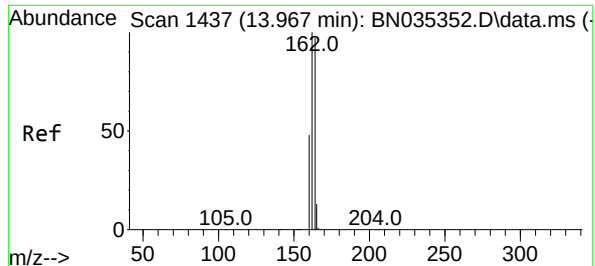
Tgt Ion:152 Resp: 29957
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#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

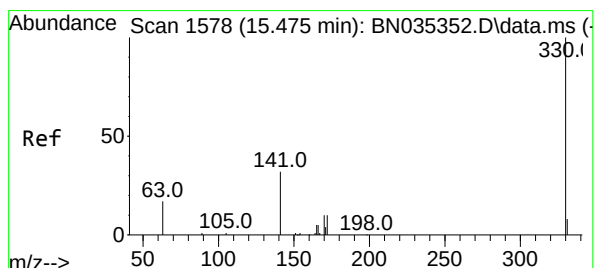
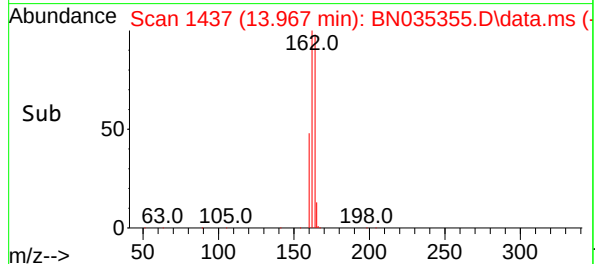
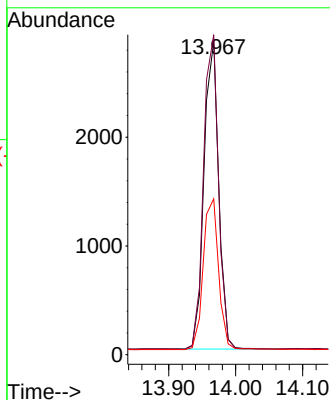
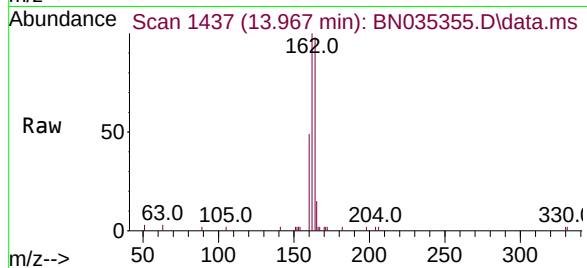




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

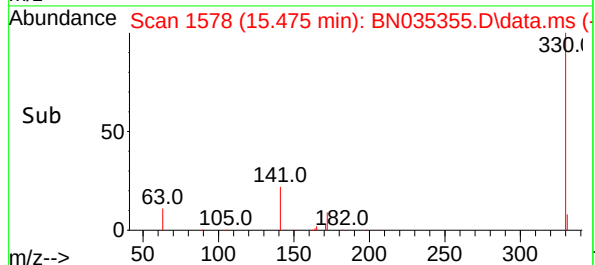
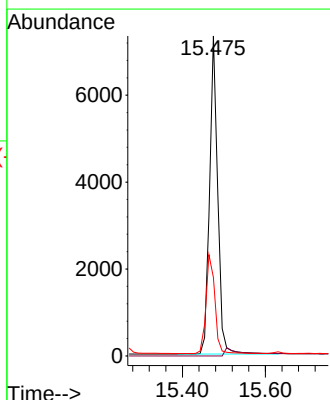
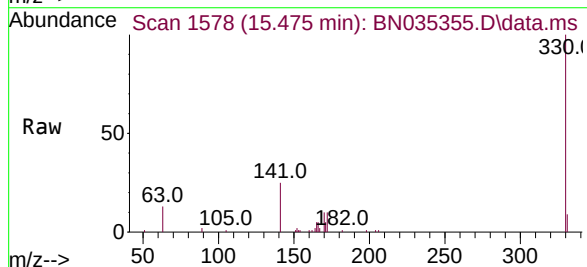
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

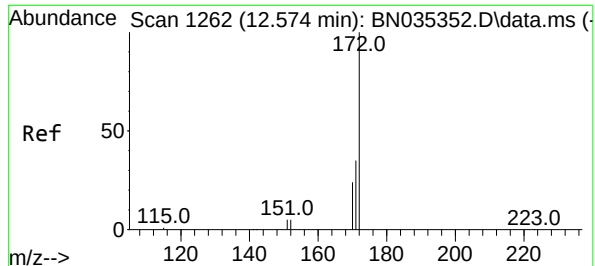
Tgt Ion:164 Resp: 4307
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.7 40.1 60.1



#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

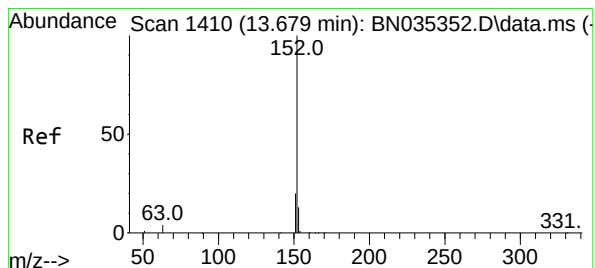
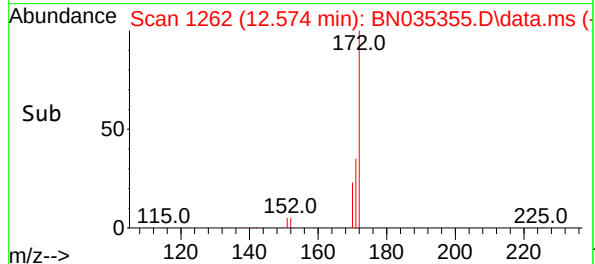
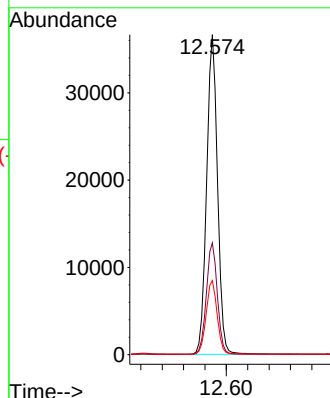
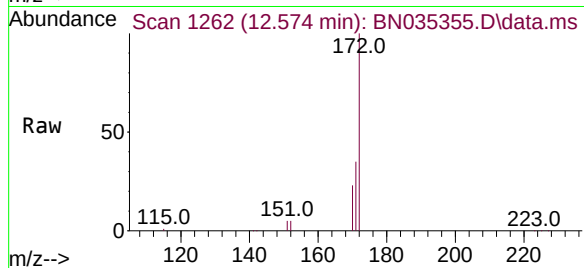
Tgt Ion:172 Resp: 52048

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

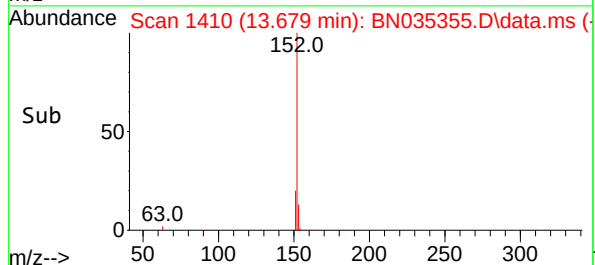
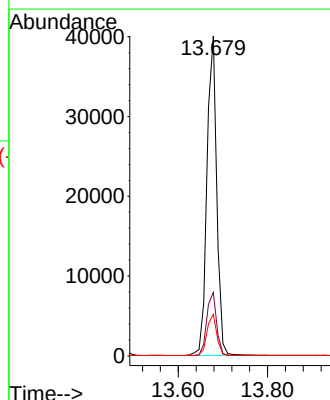
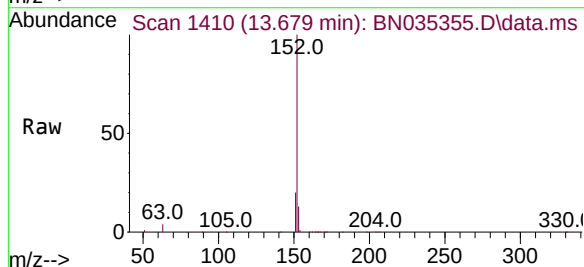
Tgt Ion:152 Resp: 60734

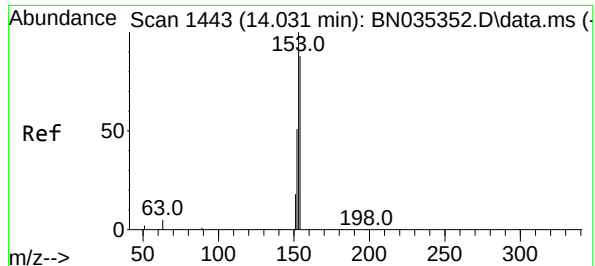
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 12.9 10.4 15.6

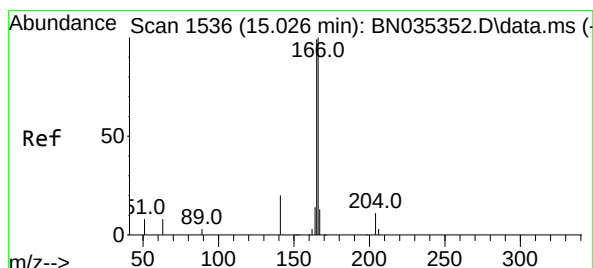
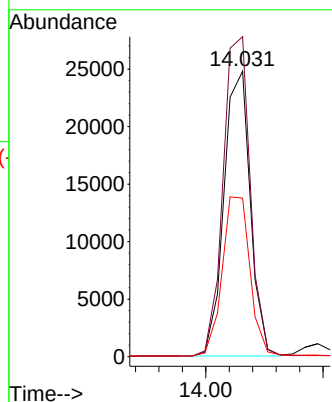
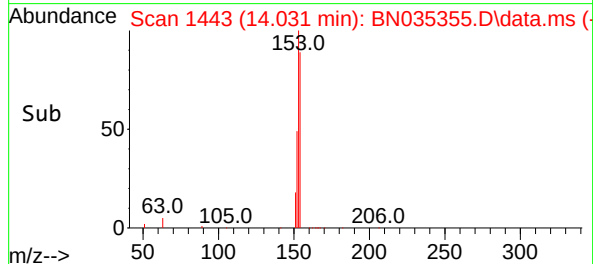
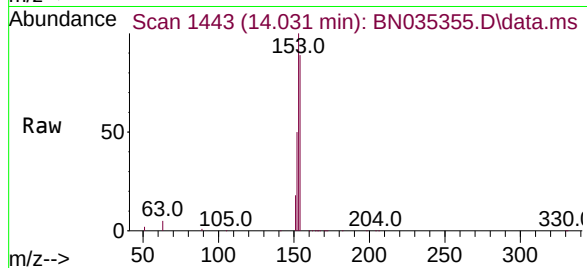




#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

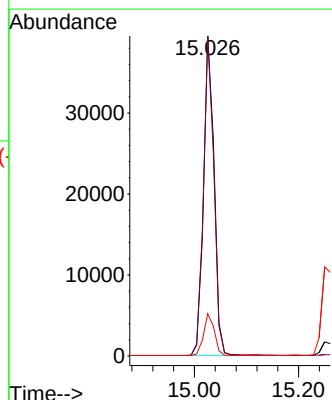
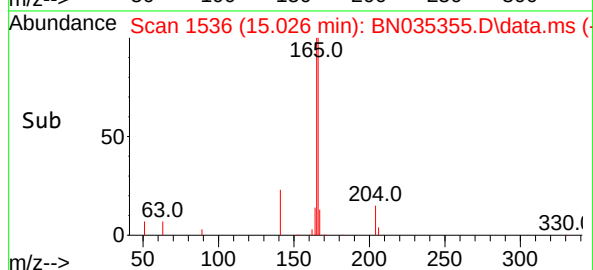
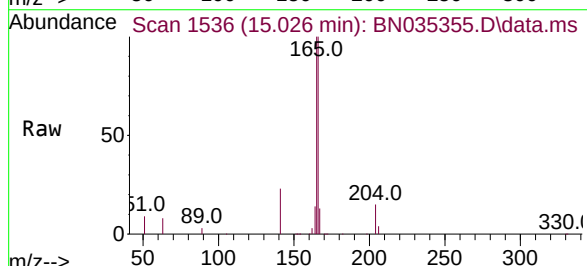
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

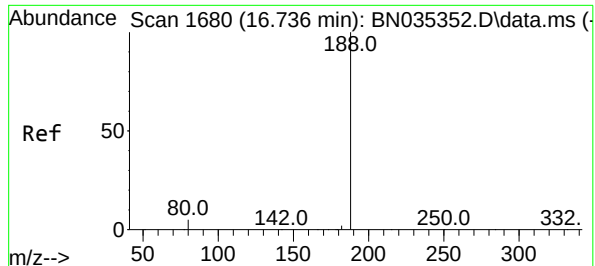
Tgt Ion:154 Resp: 38676
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 59.2 49.0 73.6



#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

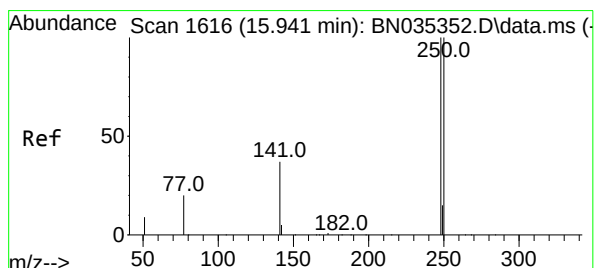
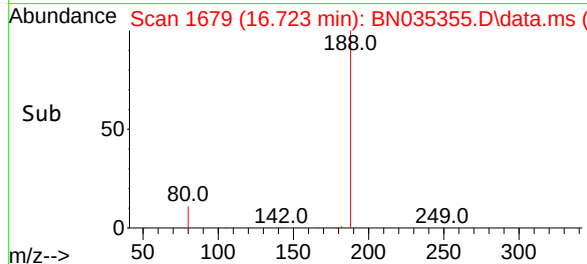
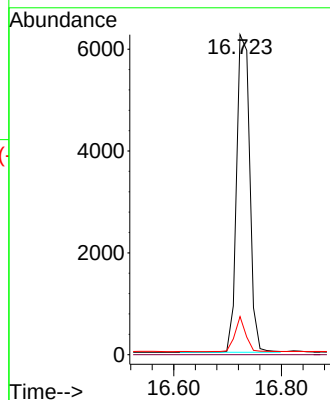
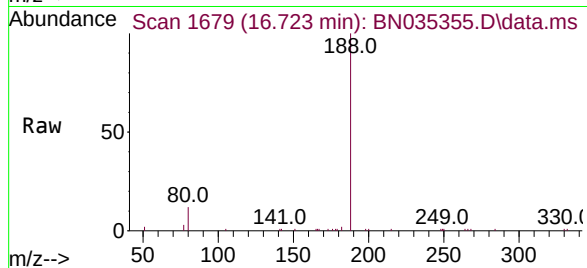
Tgt Ion:188 Resp: 10513

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

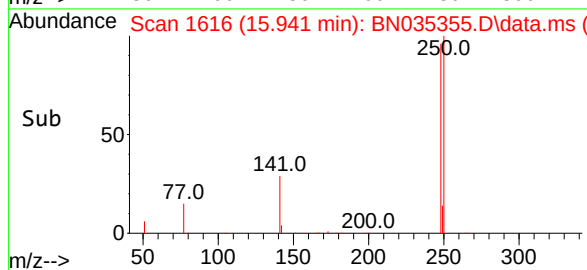
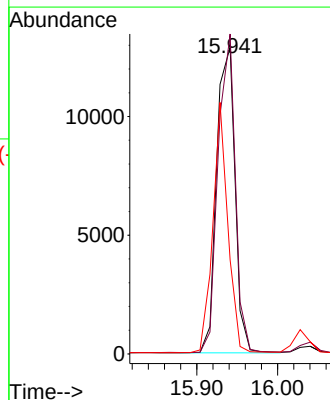
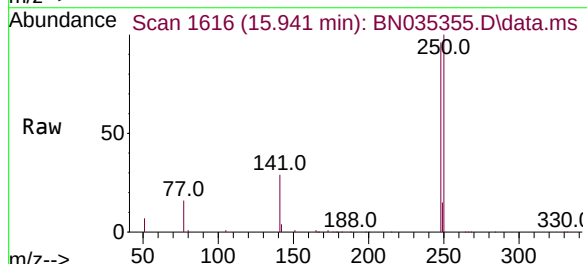
Tgt Ion:248 Resp: 20321

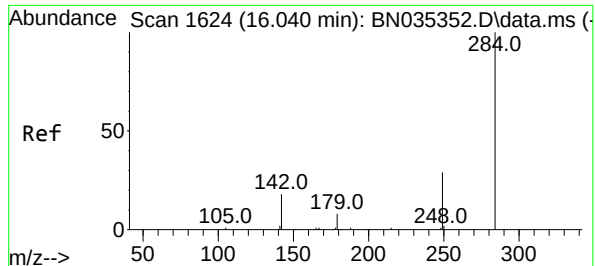
Ion Ratio Lower Upper

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# 1624

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

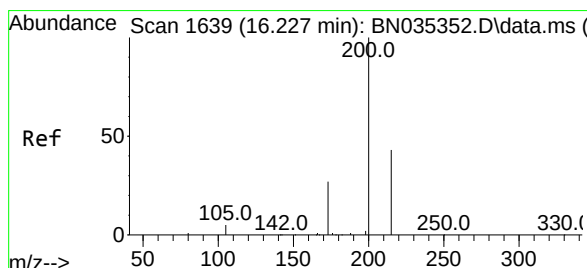
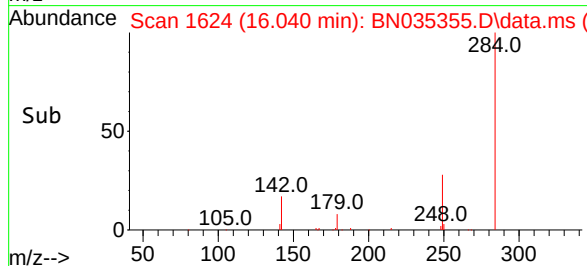
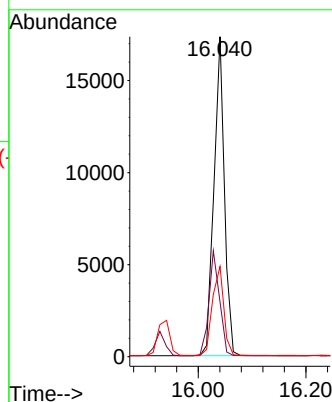
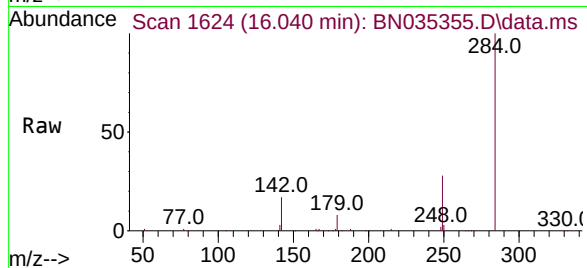
Tgt Ion:284 Resp: 23349

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

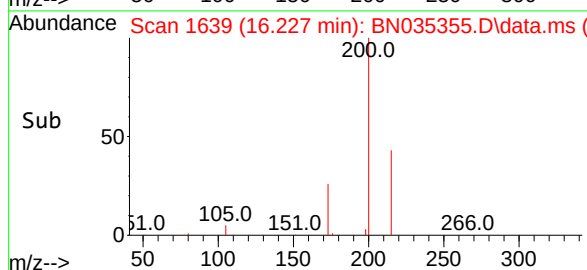
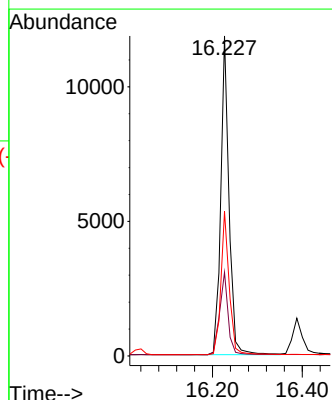
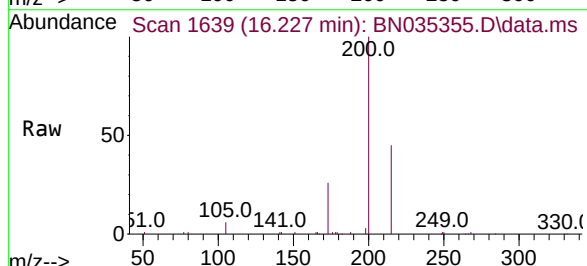
Tgt Ion:200 Resp: 15072

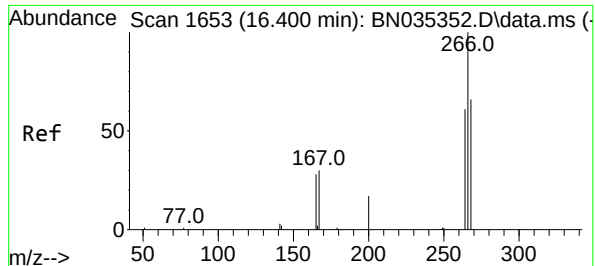
Ion Ratio Lower Upper

200 100

173 26.2 24.1 36.1

215 45.1 36.9 55.3

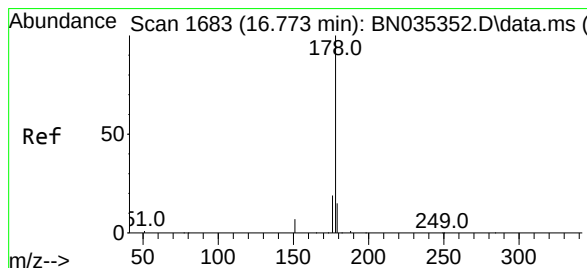
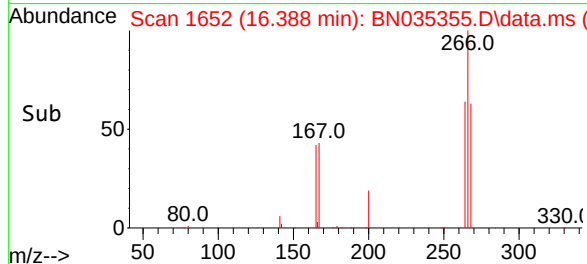
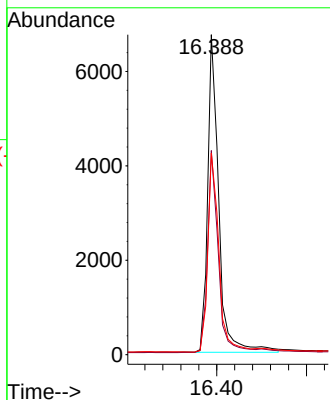
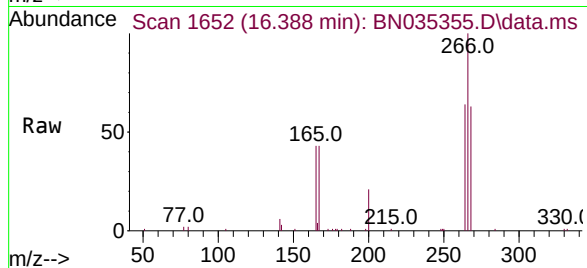




#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

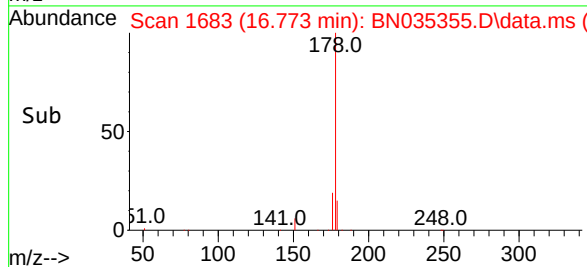
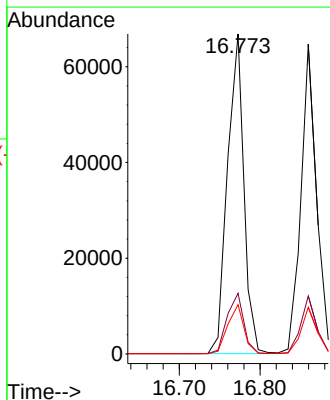
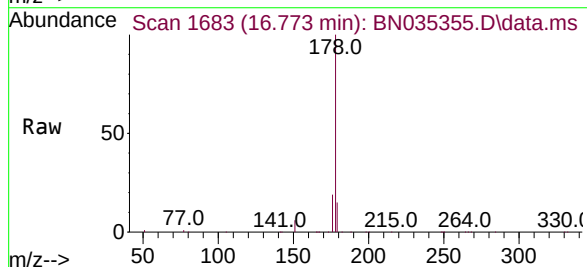
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

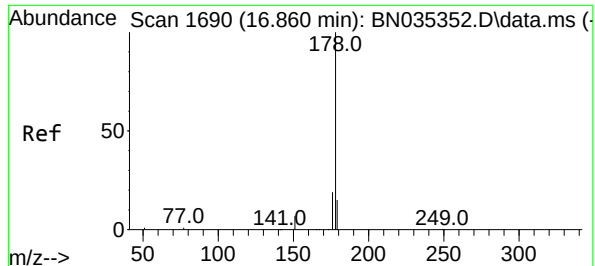
Tgt Ion:266 Resp: 11439
Ion Ratio Lower Upper
266 100
264 62.6 42.3 63.5
268 64.4 43.3 64.9



#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

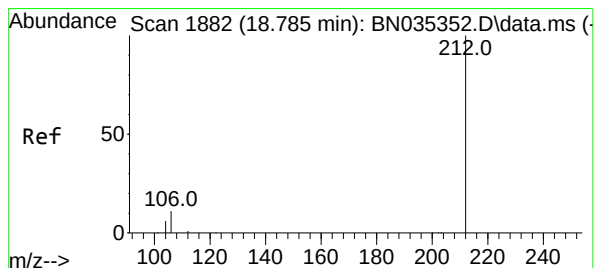
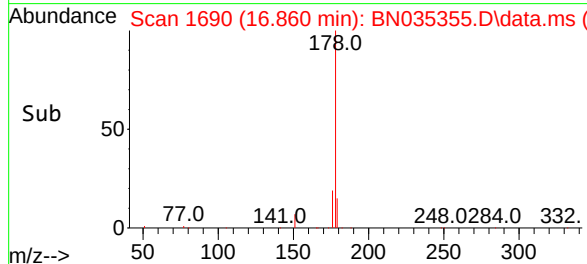
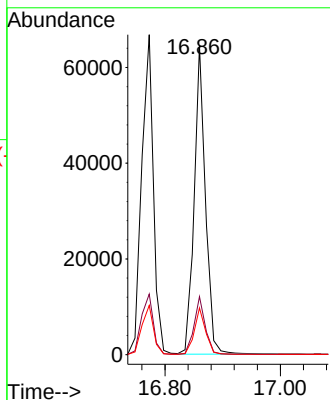
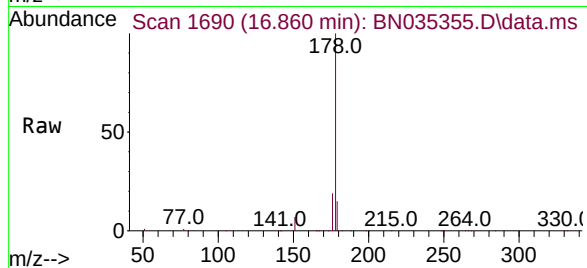




#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

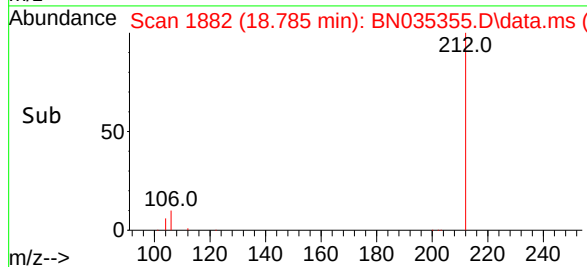
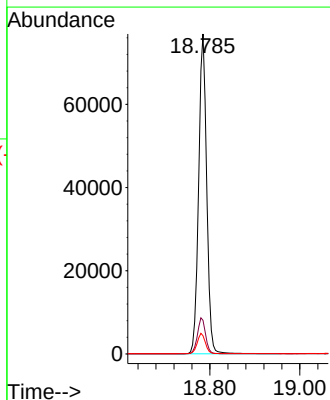
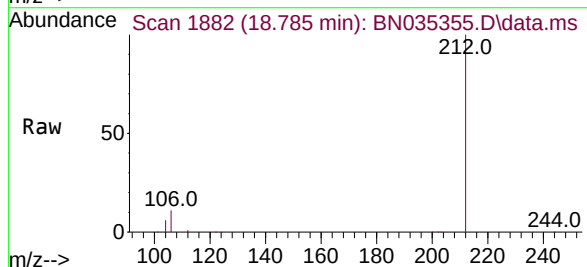
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

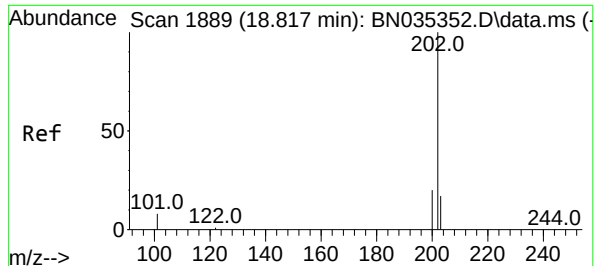
Tgt Ion:178 Resp: 87657
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.6 18.8



#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

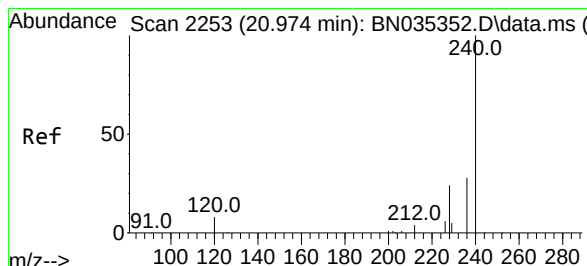
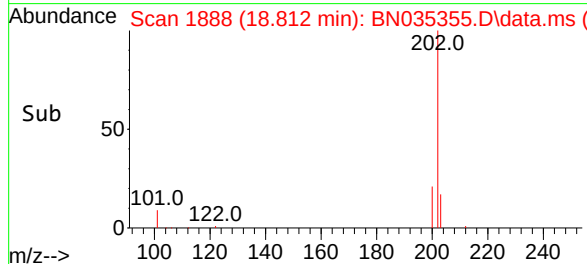
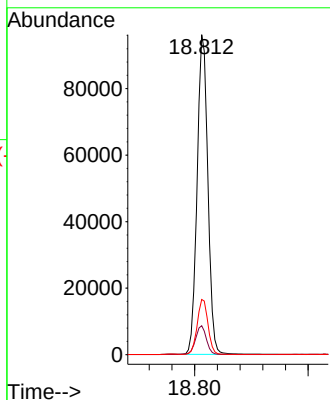
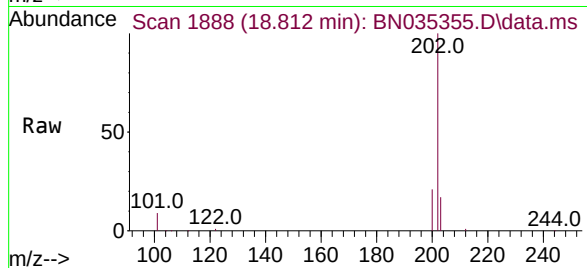




#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

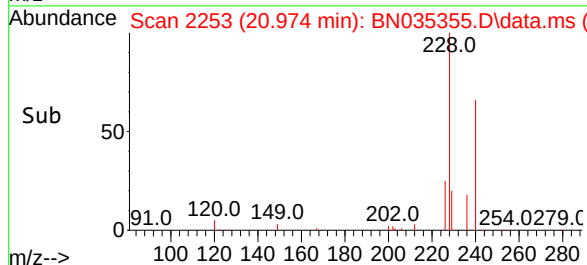
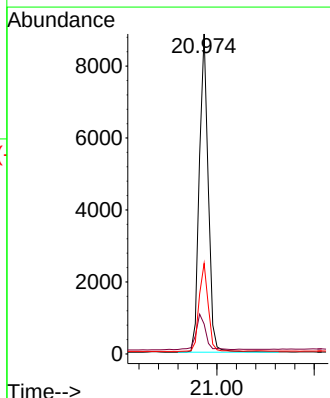
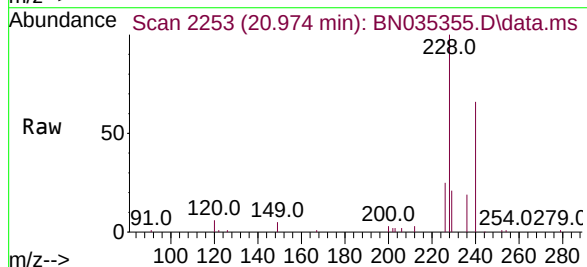
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

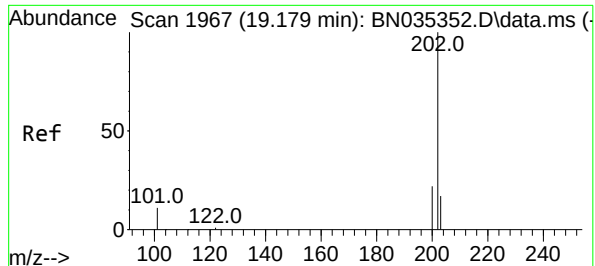
Tgt Ion:202 Resp: 125901
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.3 13.7 20.5



#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

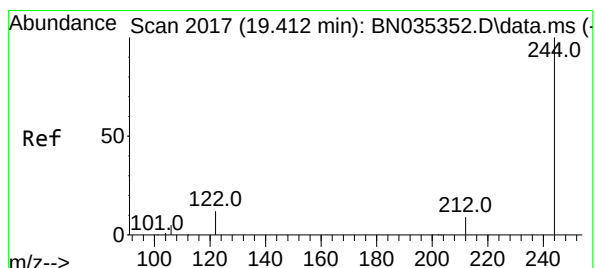
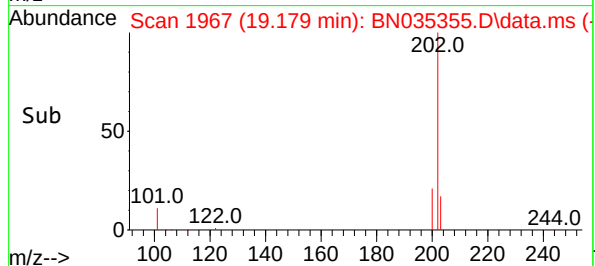
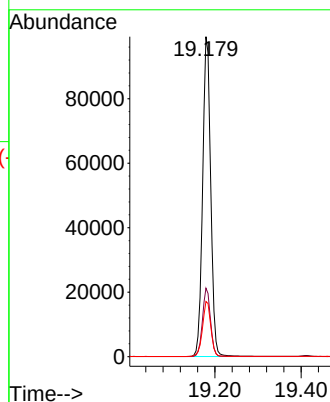
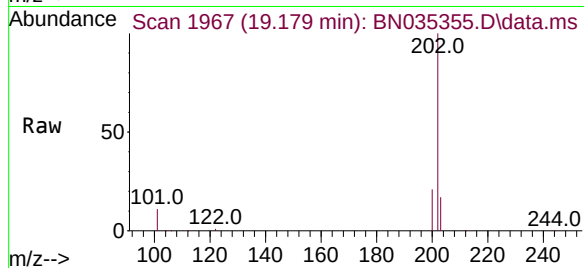




#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

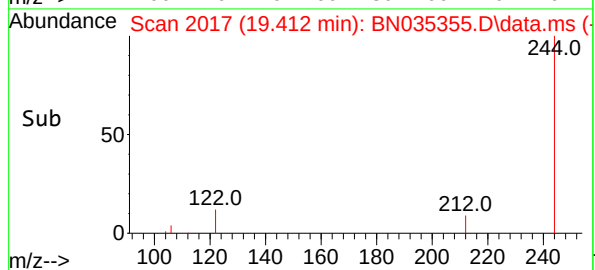
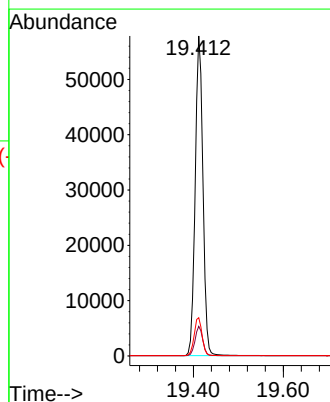
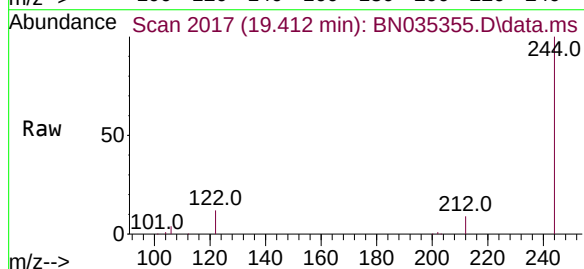
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

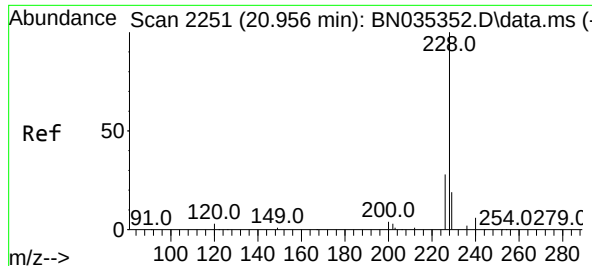
Tgt Ion:202 Resp: 129105
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5



#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

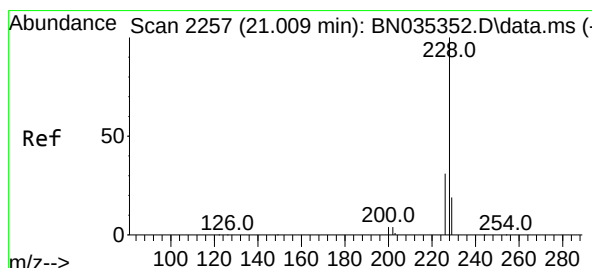
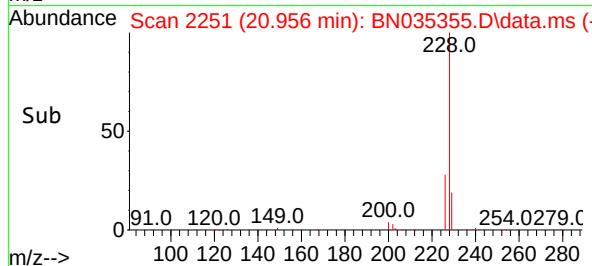
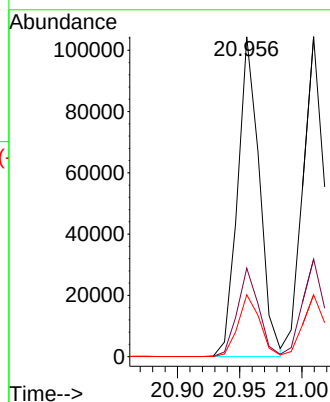
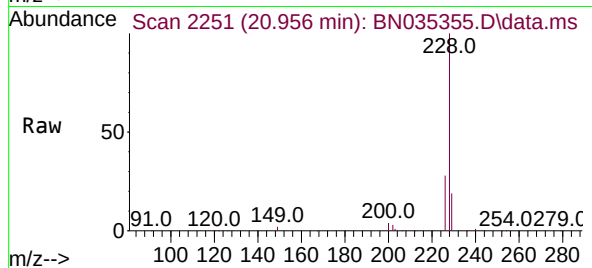




#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

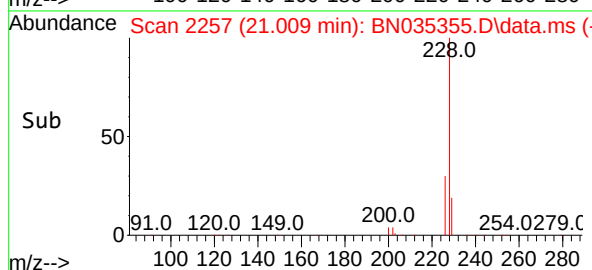
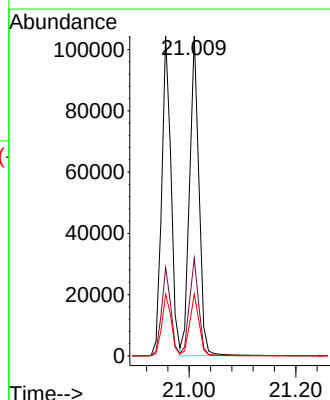
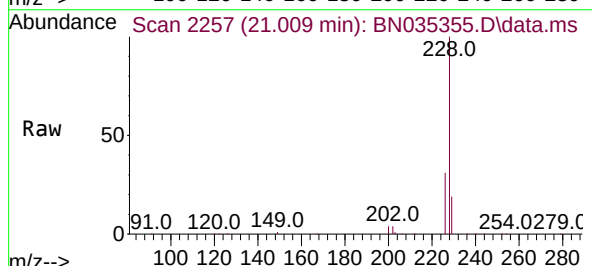
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

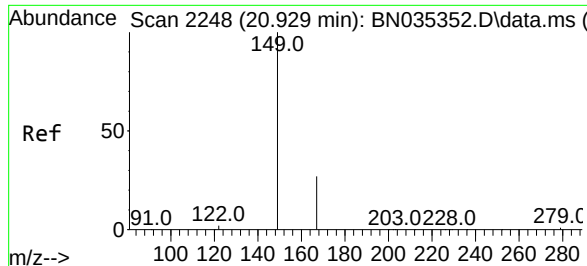
Tgt Ion:228 Resp: 126517
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 19.4 15.8 23.8



#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

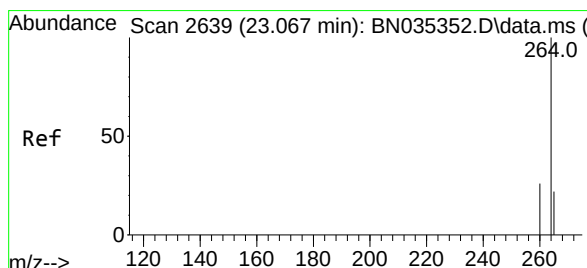
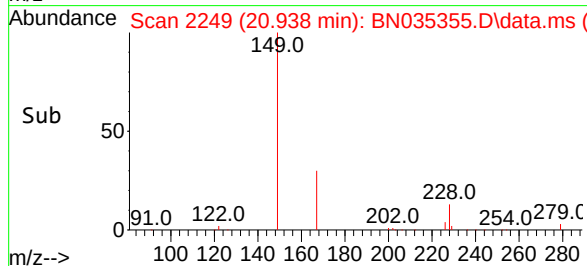
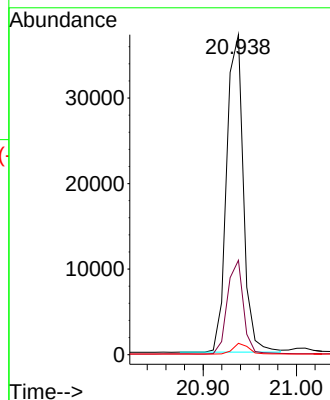
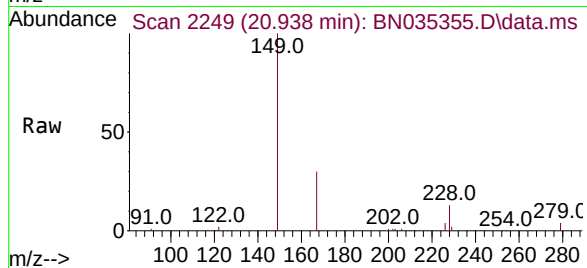




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

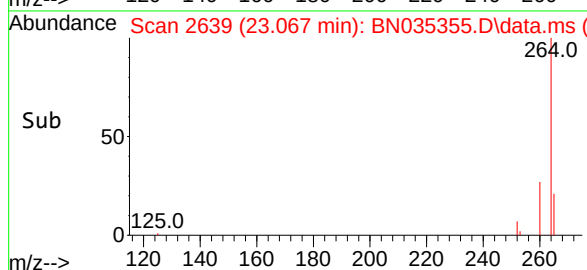
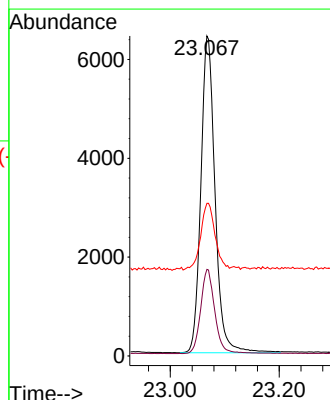
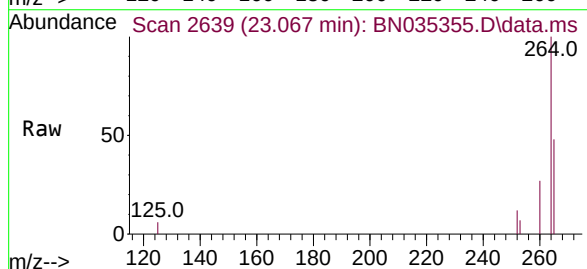
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

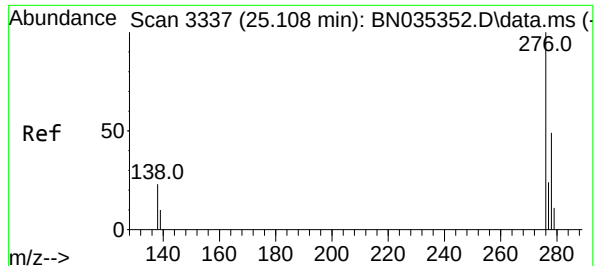
Tgt Ion:149 Resp: 46251
Ion Ratio Lower Upper
149 100
167 28.3 22.2 33.4
279 3.2 2.7 4.1



#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# 31

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

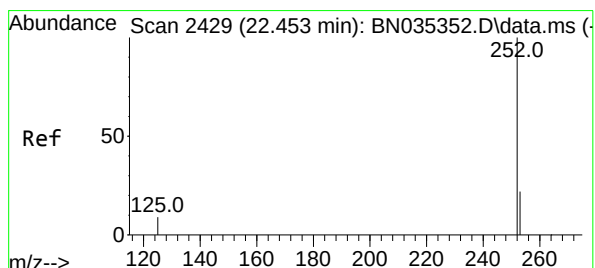
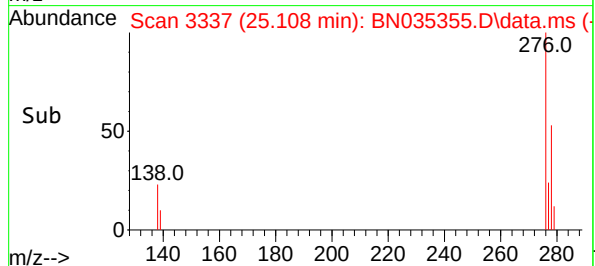
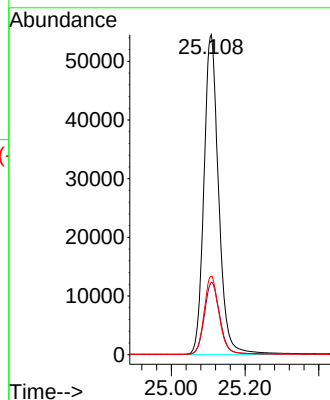
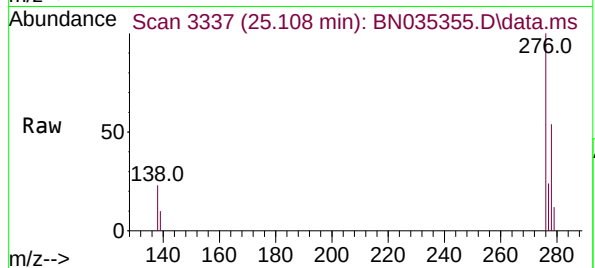
Tgt Ion:276 Resp: 150433

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

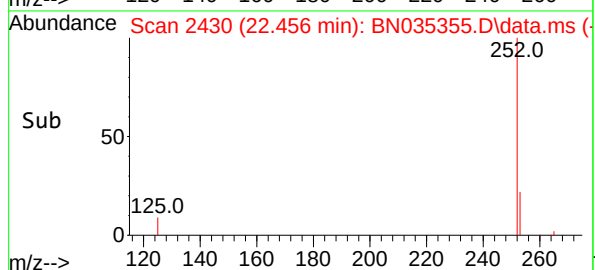
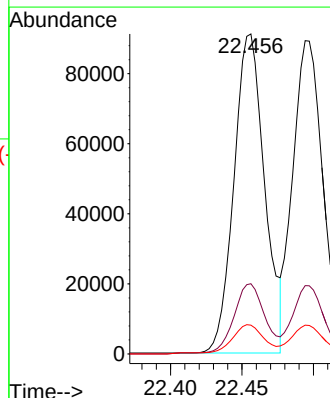
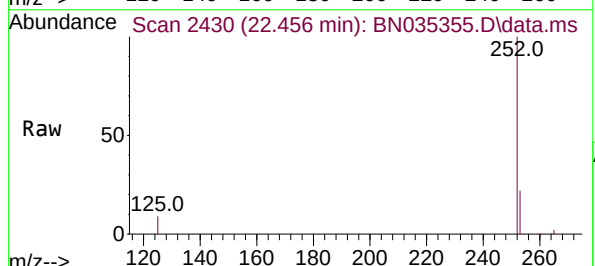
Tgt Ion:252 Resp: 136261

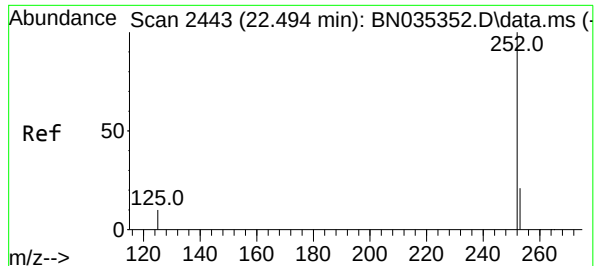
Ion Ratio Lower Upper

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# 2443

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

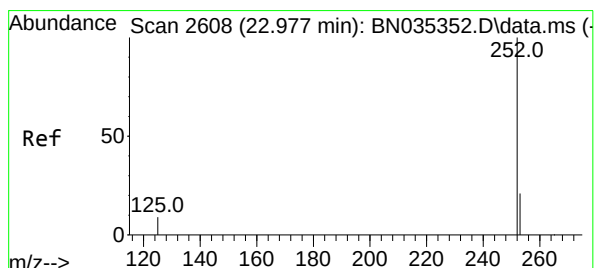
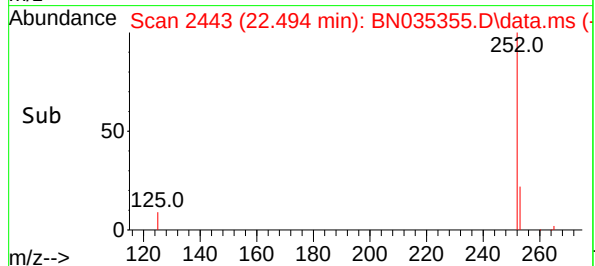
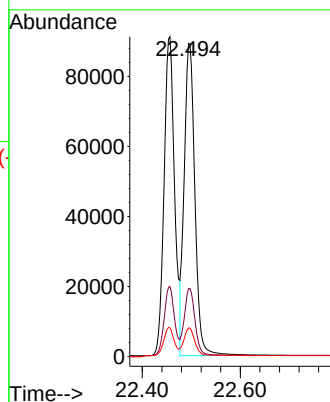
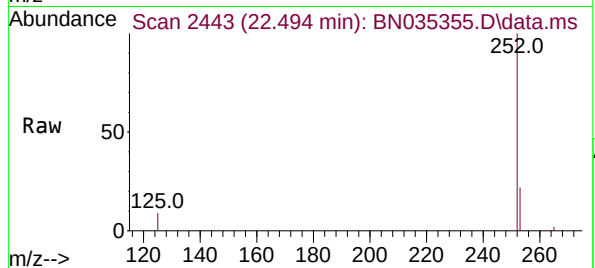
Tgt Ion:252 Resp: 134789

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

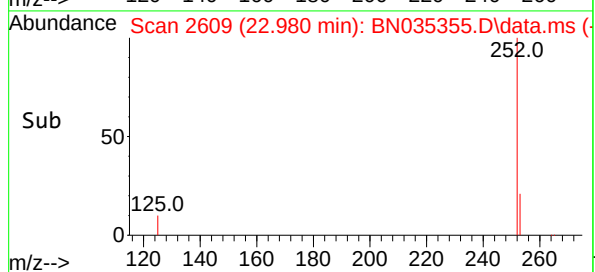
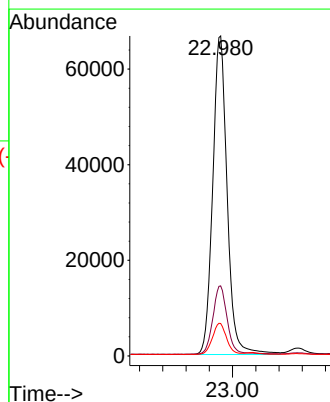
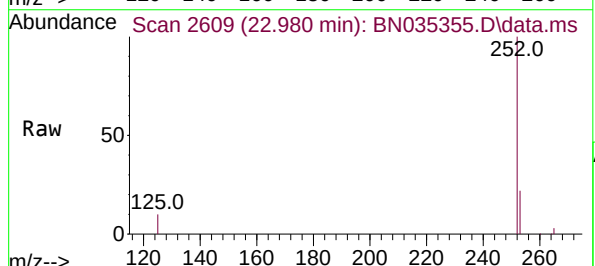
Tgt Ion:252 Resp: 114719

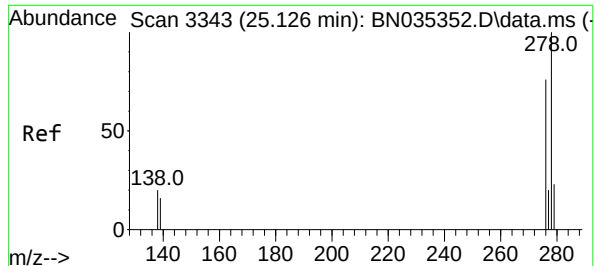
Ion Ratio Lower Upper

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# 31

Delta R.T. -0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

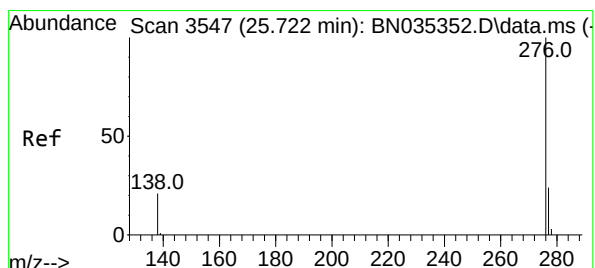
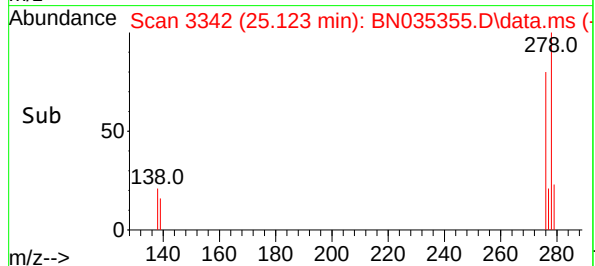
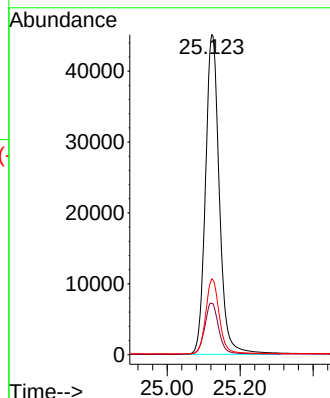
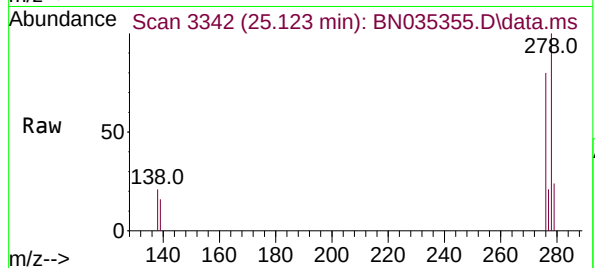
Tgt Ion:278 Resp: 119216

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

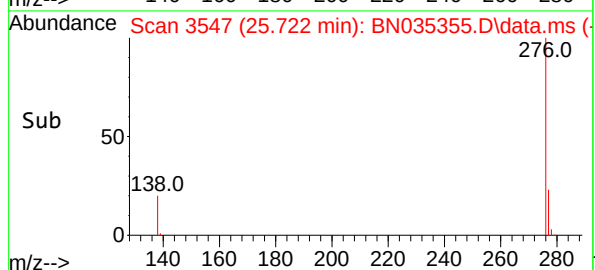
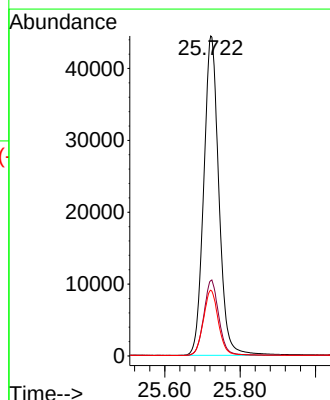
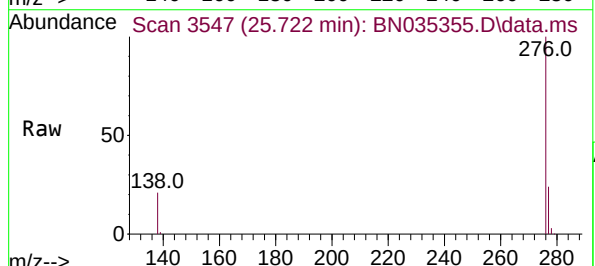
Tgt Ion:276 Resp: 123841

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 20.6 17.8 26.8



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)

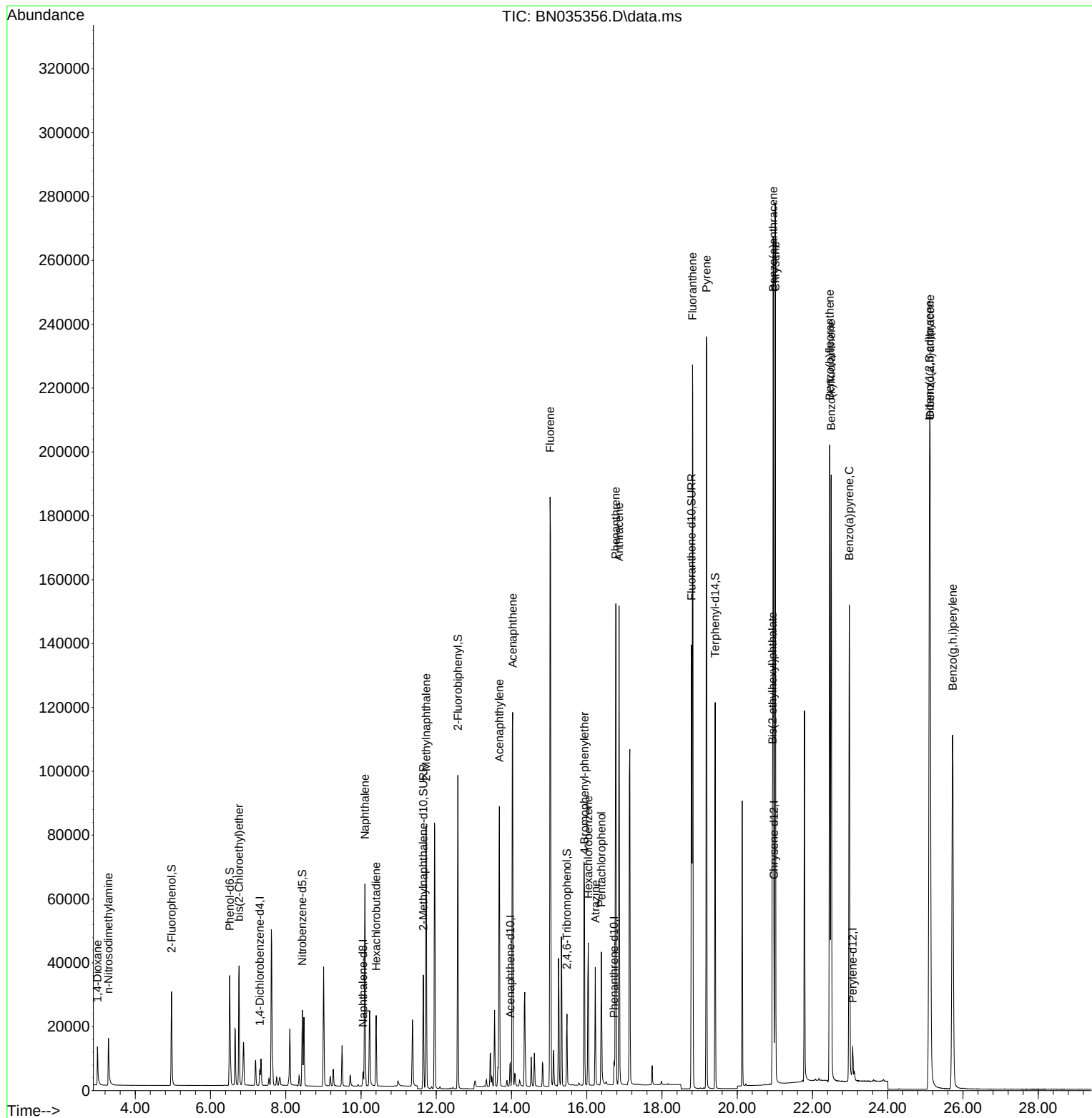
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng	0.00
35) Perylene-d12	23.067	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

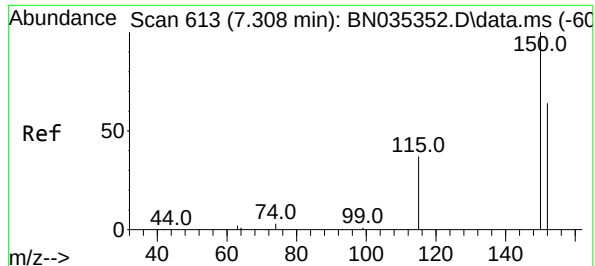
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

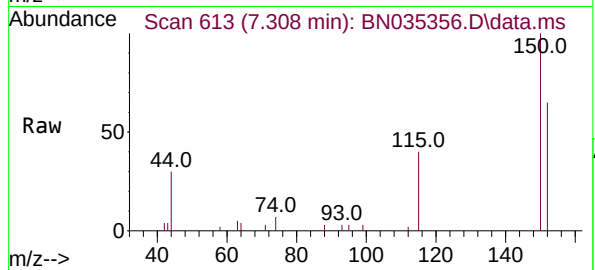
Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



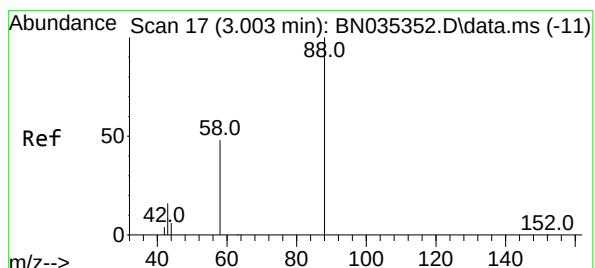
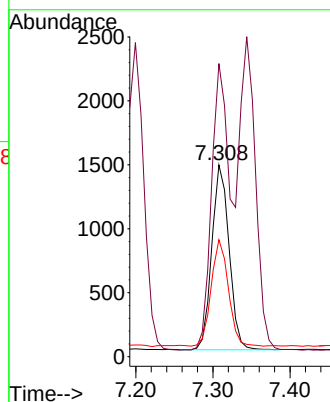
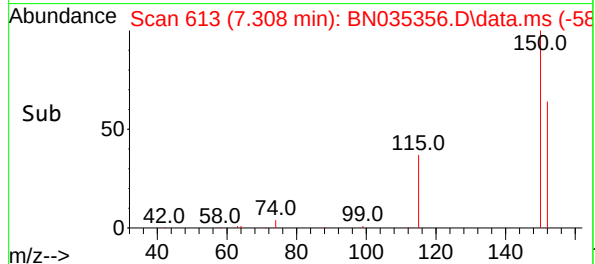


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

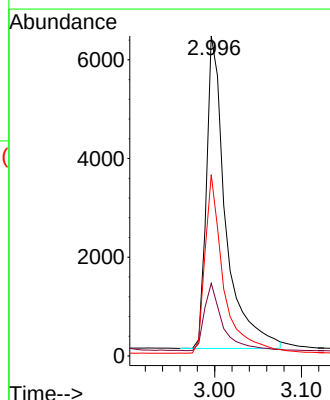
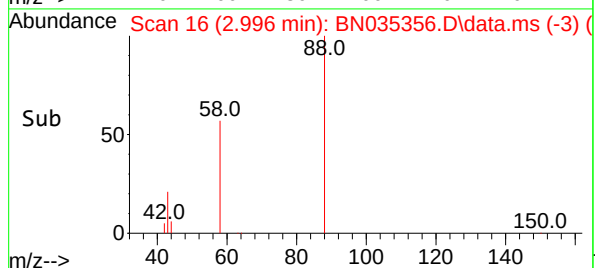
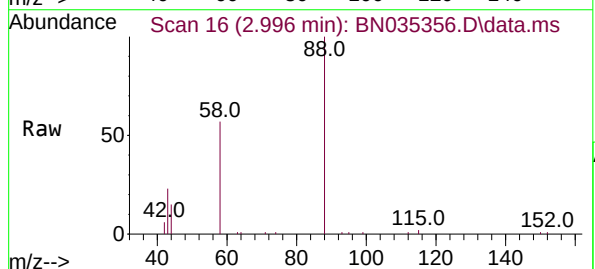


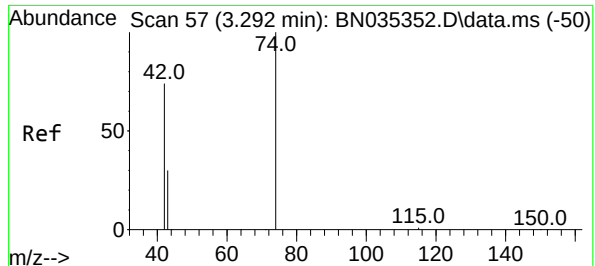
Tgt Ion:152 Resp: 2249
Ion Ratio Lower Upper
152 100
150 152.9 124.0 186.0
115 61.0 49.6 74.4



#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

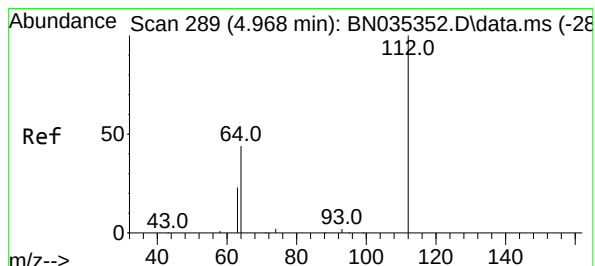
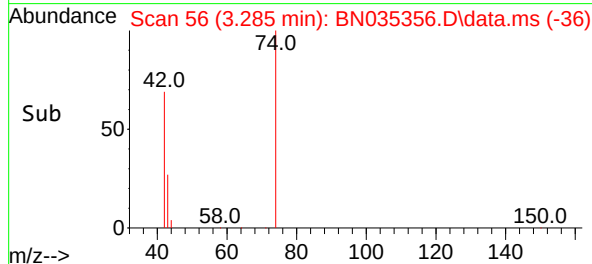
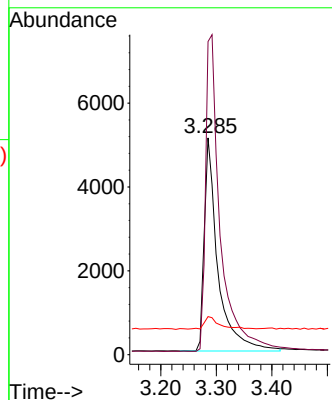
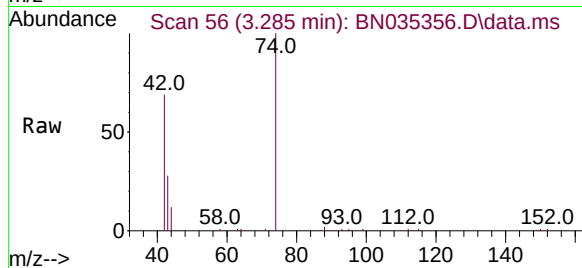




#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

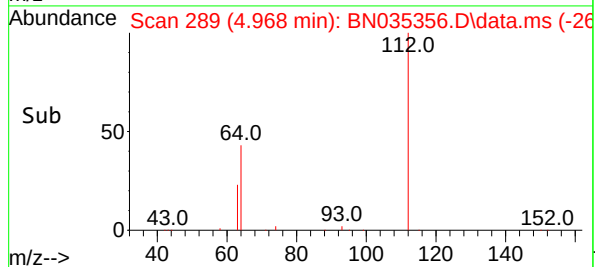
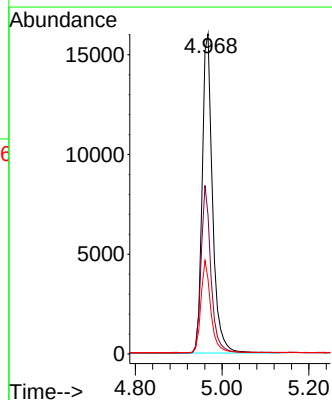
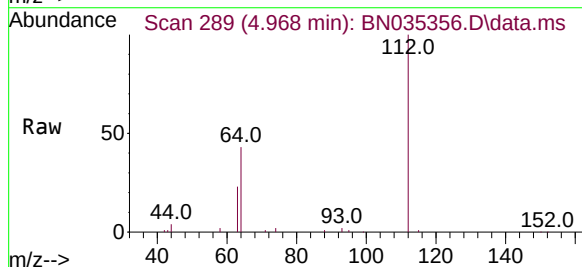
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

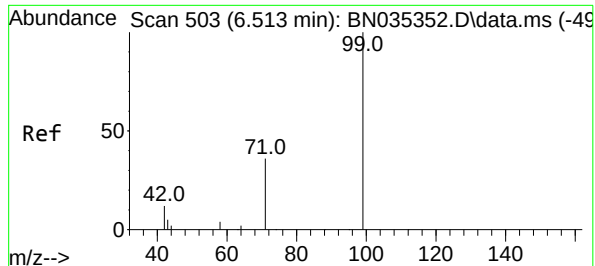
Tgt Ion: 42 Resp: 8681
Ion Ratio Lower Upper
42 100
74 161.2 124.9 187.3
44 6.7 2.2 3.4#



#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

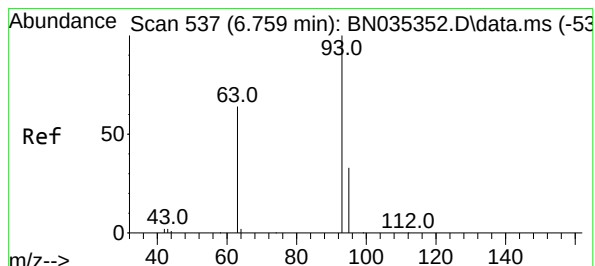
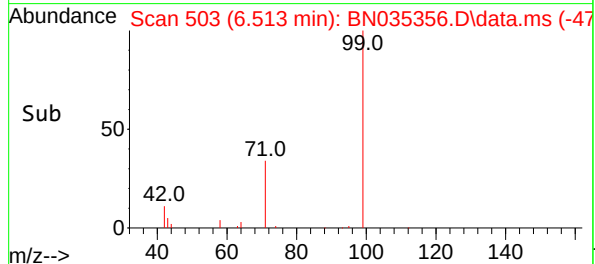
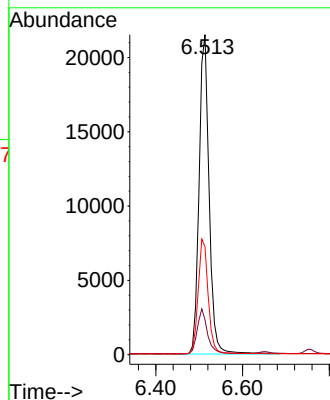
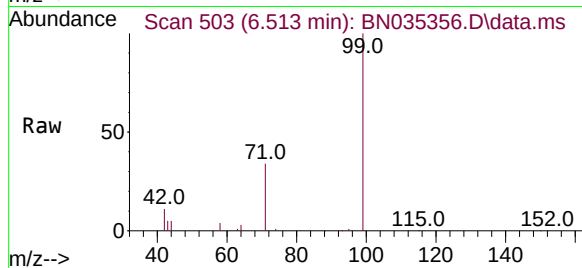




#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

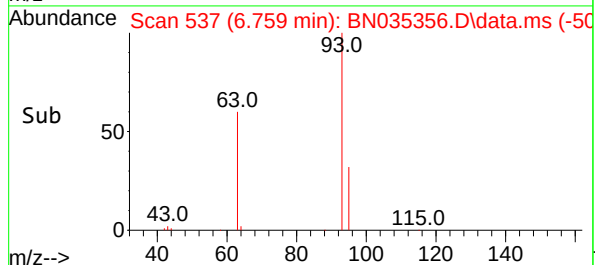
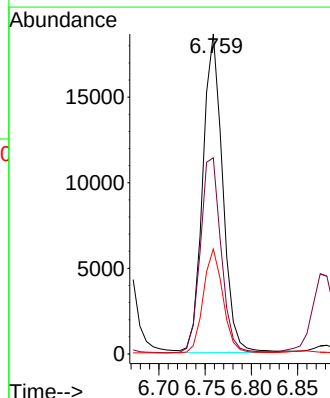
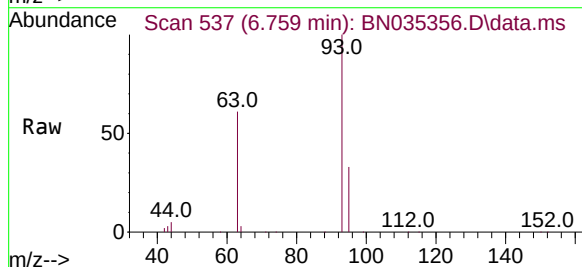
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

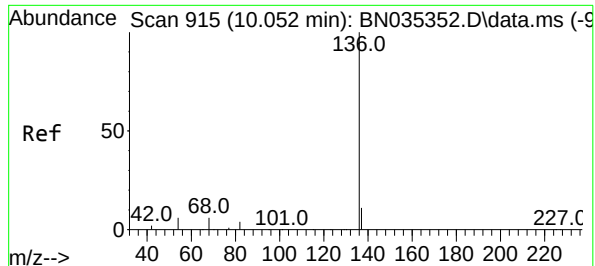
Tgt Ion: 99 Resp: 34560
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.4 29.3 43.9



#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

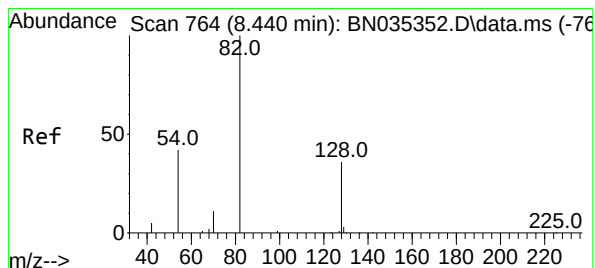
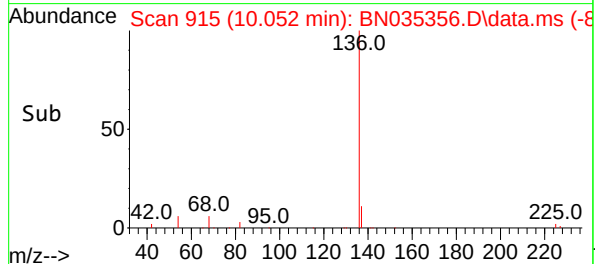
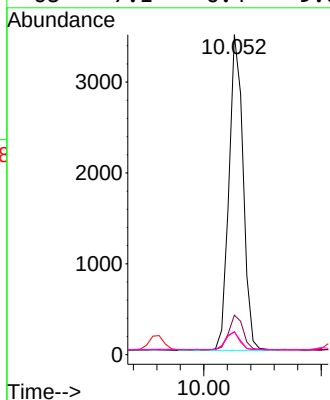
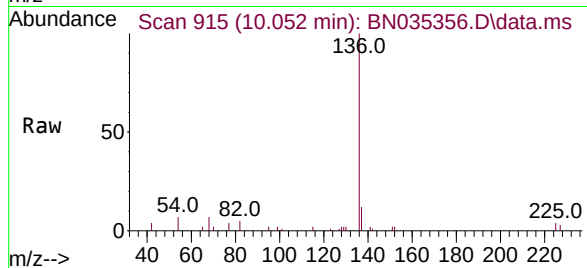




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

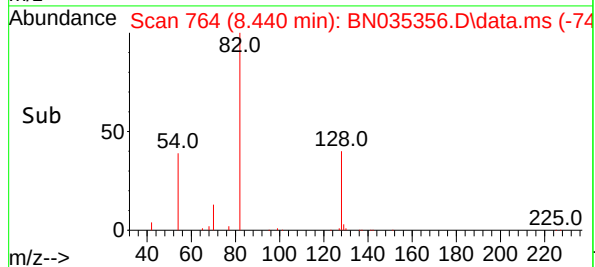
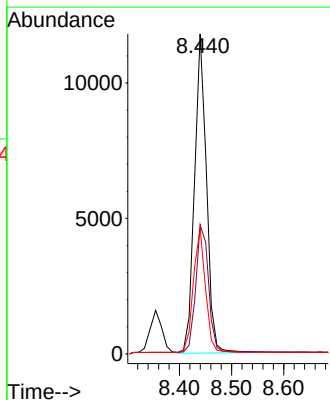
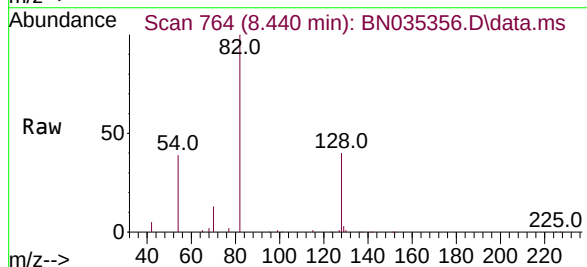
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

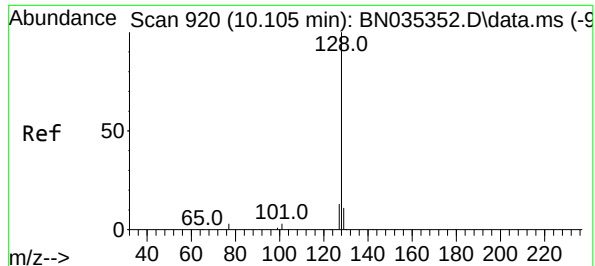
Tgt Ion:	136	Resp:	5807
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6



#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

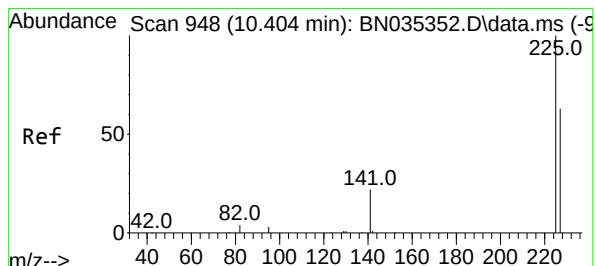
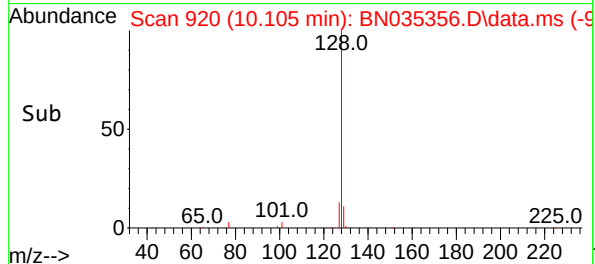
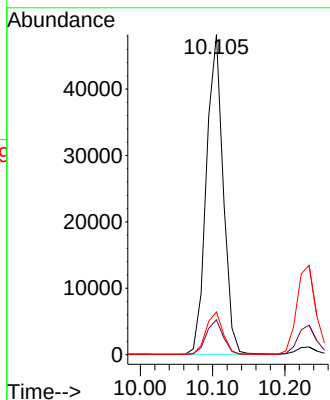
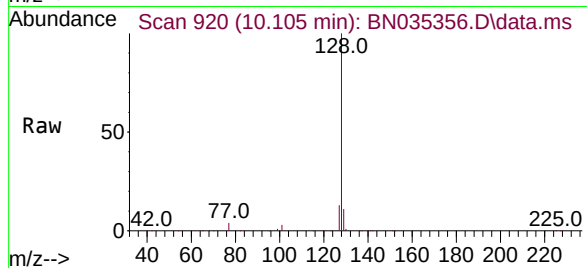




#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

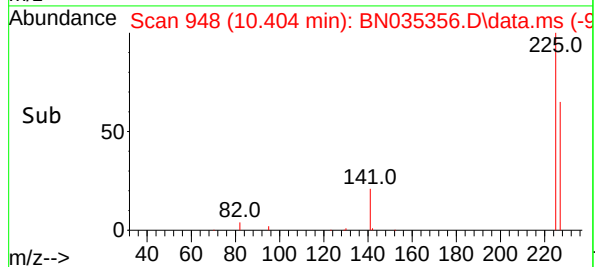
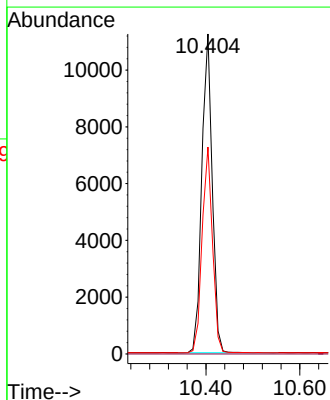
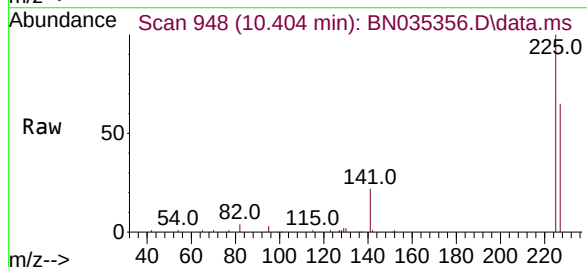
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

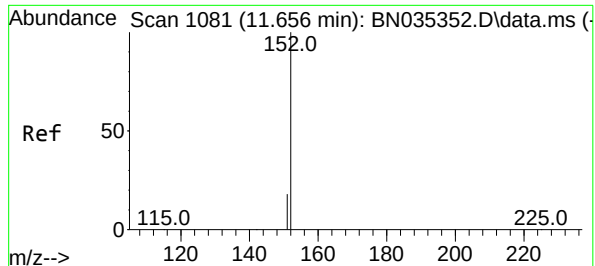
Tgt Ion:128 Resp: 77668
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.4 11.4 17.2



#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

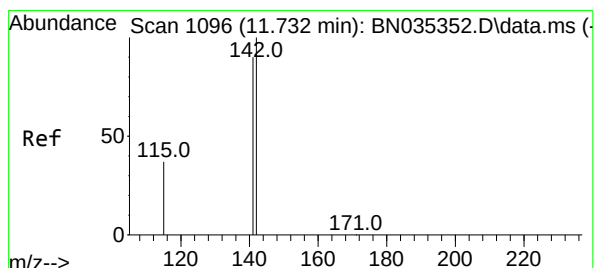
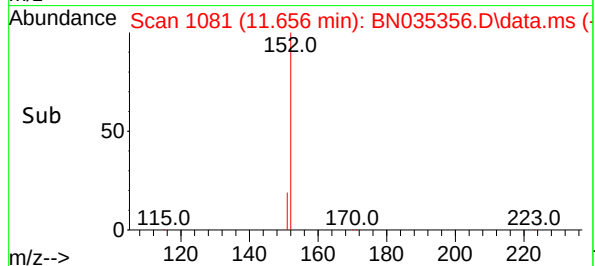
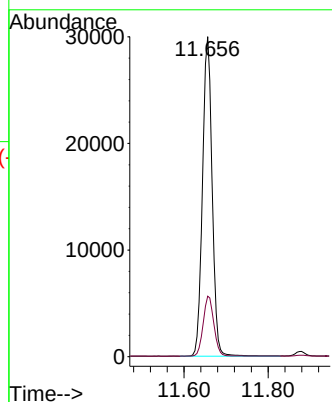
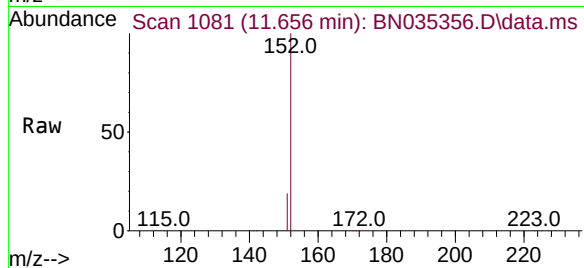




#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

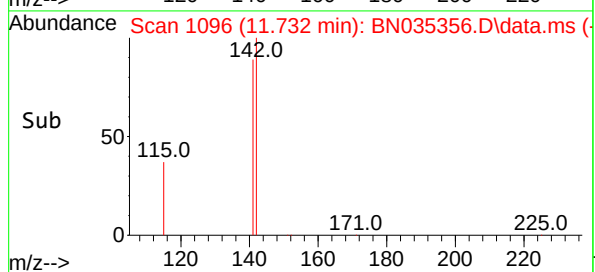
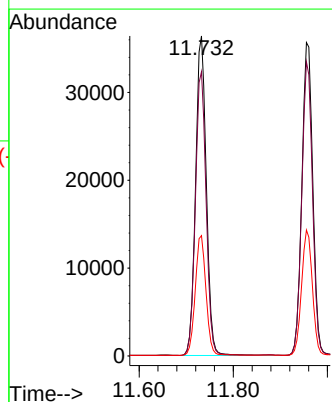
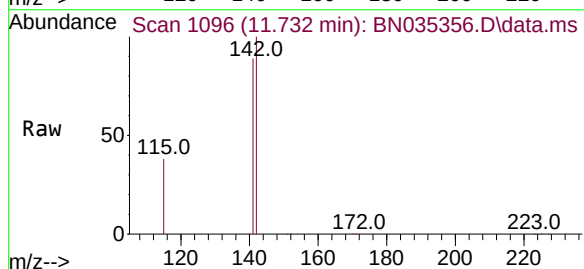
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

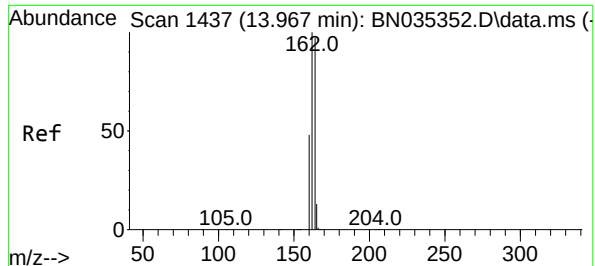
Tgt Ion:152 Resp: 47612
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

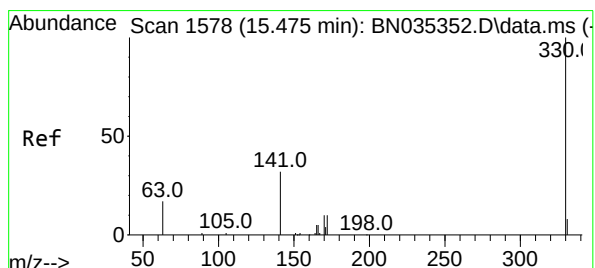
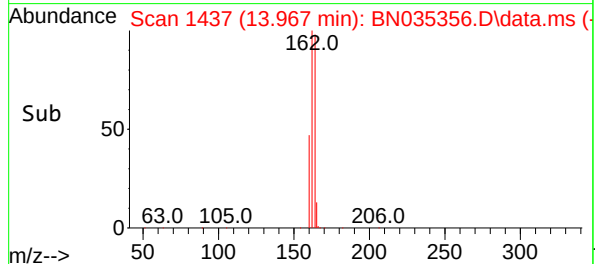
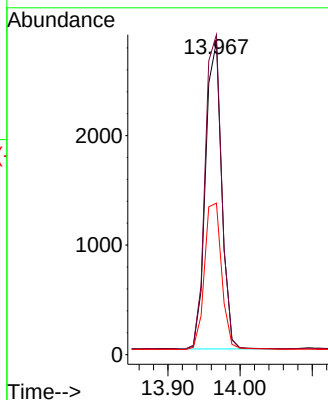
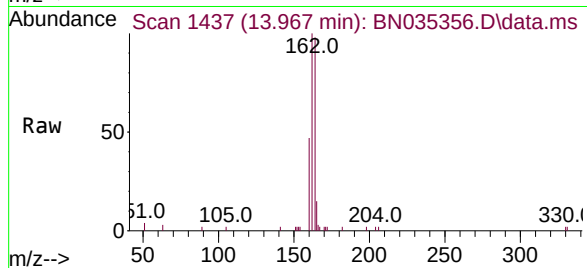




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

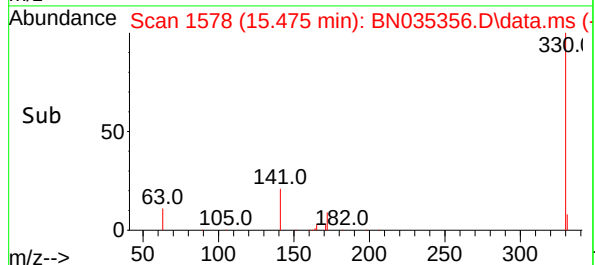
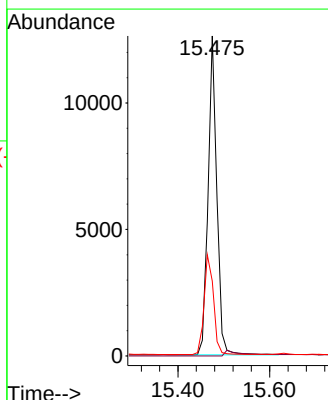
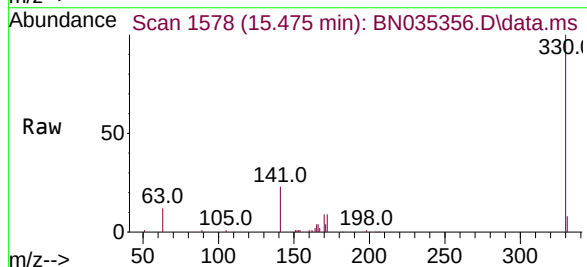
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

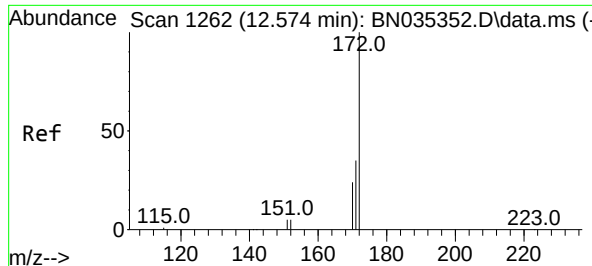
Tgt Ion:164 Resp: 4363
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 48.4 40.1 60.1



#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

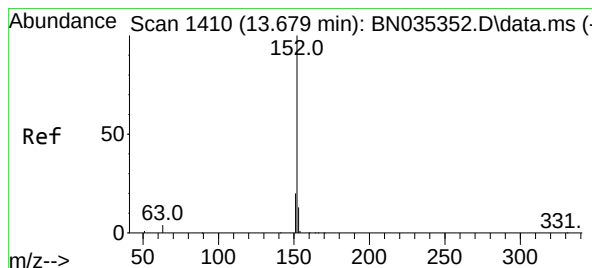
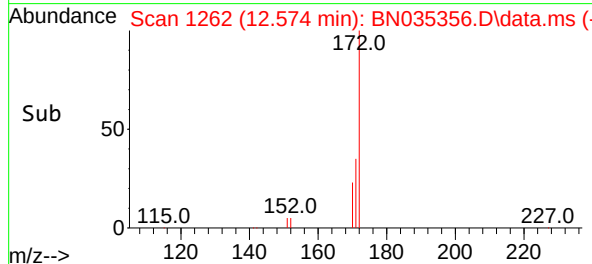
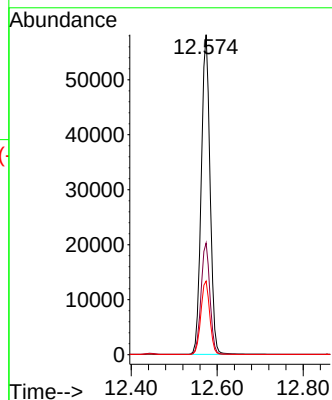
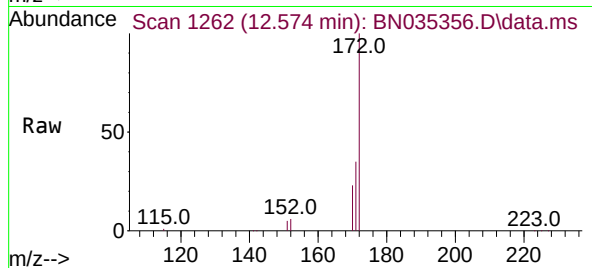




#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

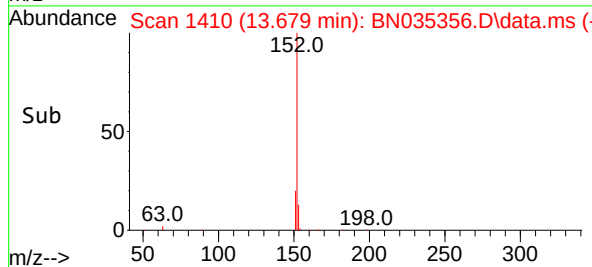
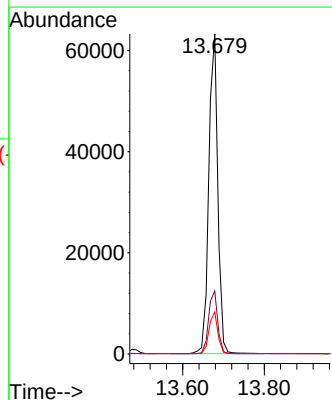
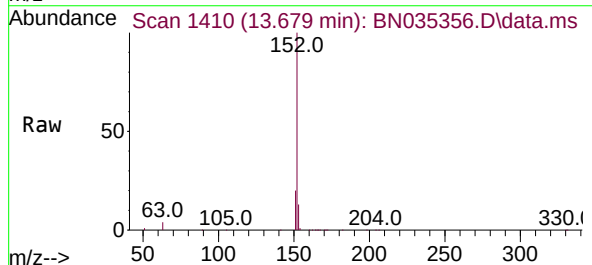
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

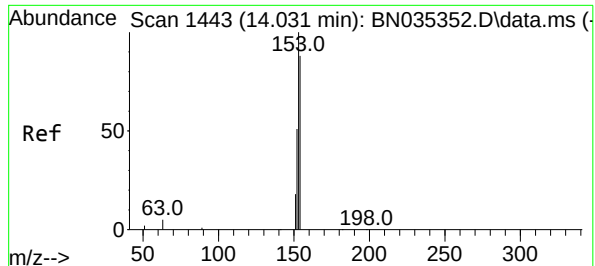
Tgt Ion:172 Resp: 82401
Ion Ratio Lower Upper
172 100
171 34.9 29.0 43.4
170 23.0 19.8 29.8



#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

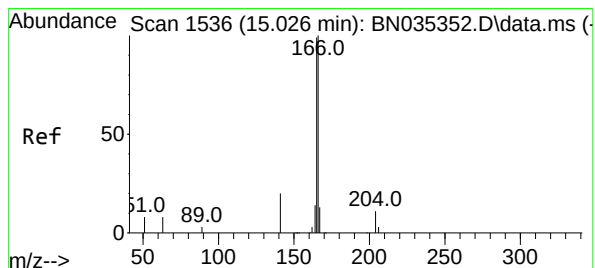
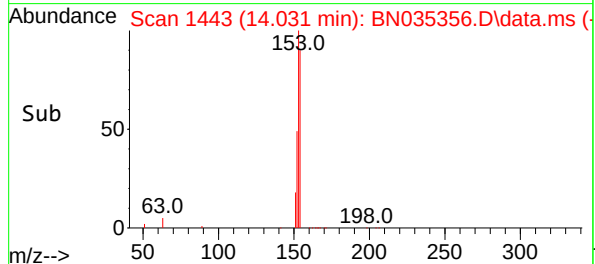
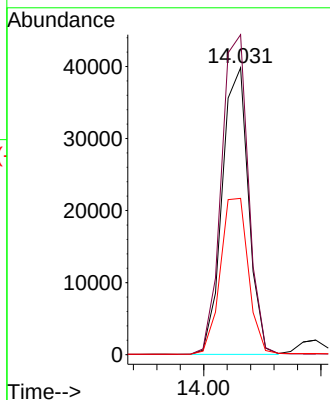
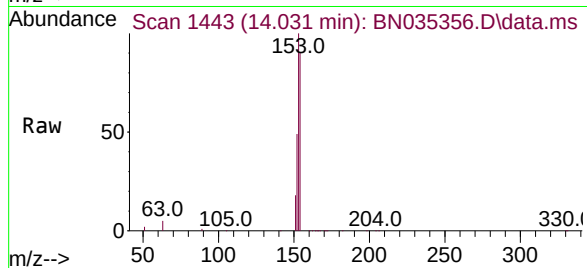




#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

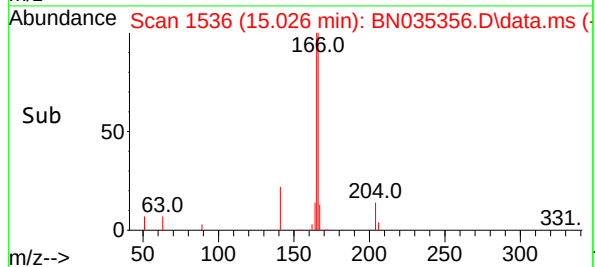
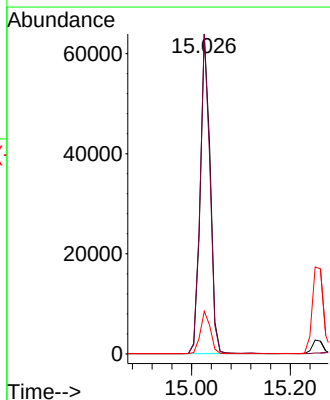
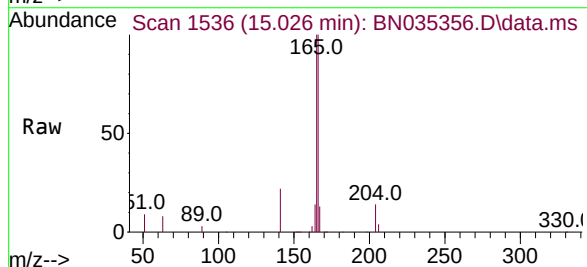
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

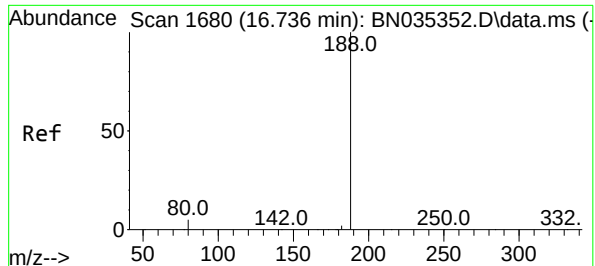
Tgt Ion:154 Resp: 62170
Ion Ratio Lower Upper
154 100
153 114.7 92.6 139.0
152 58.1 49.0 73.6



#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

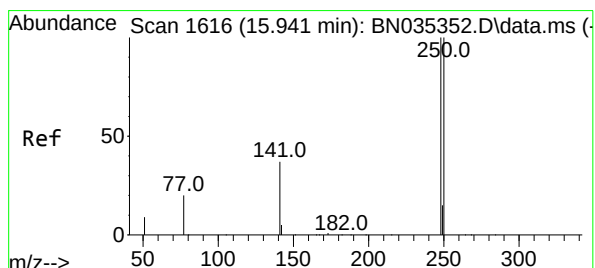
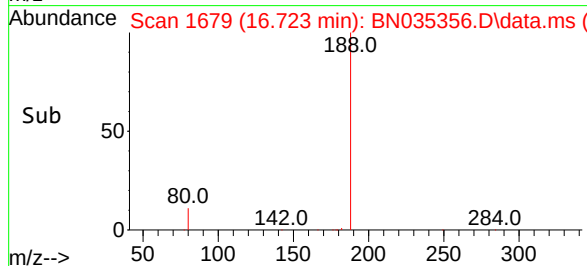
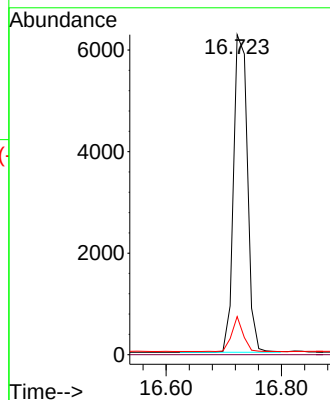
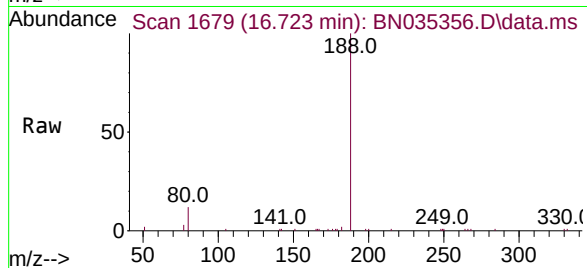
Tgt Ion:188 Resp: 10479

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

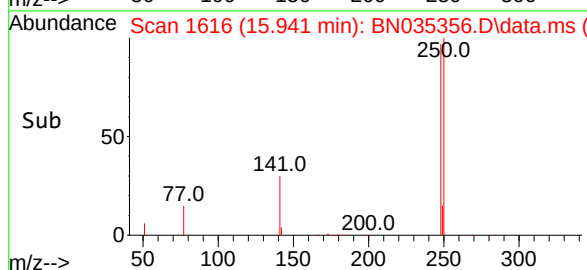
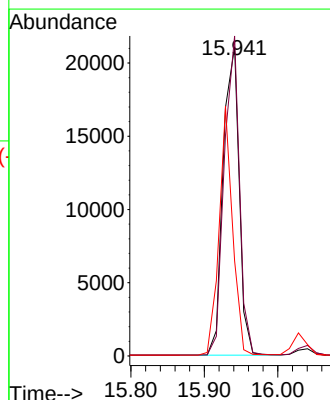
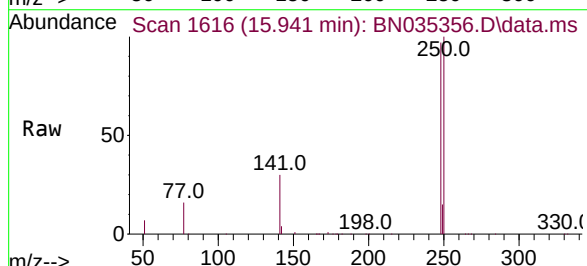
Tgt Ion:248 Resp: 31947

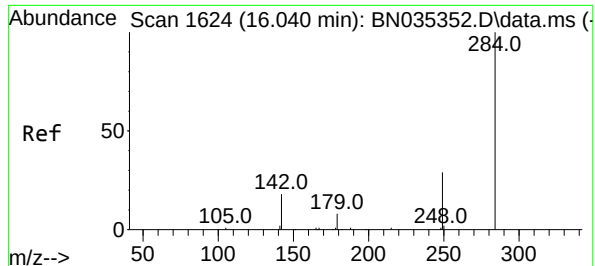
Ion Ratio Lower Upper

248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#

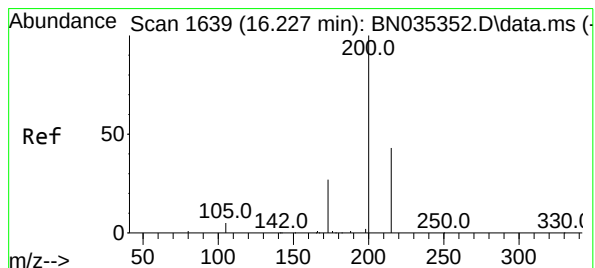
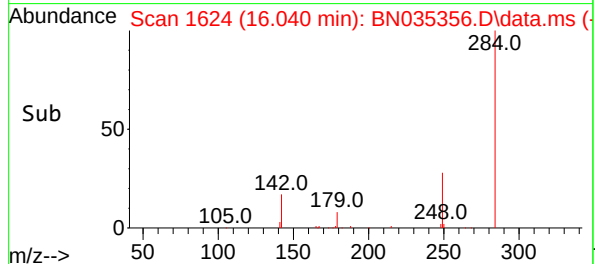
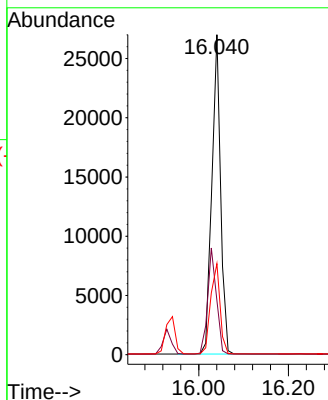
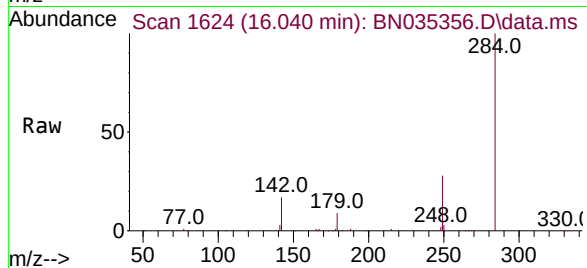




#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

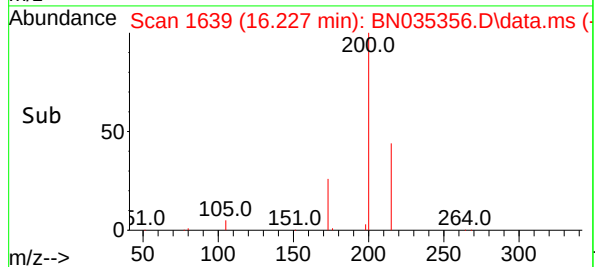
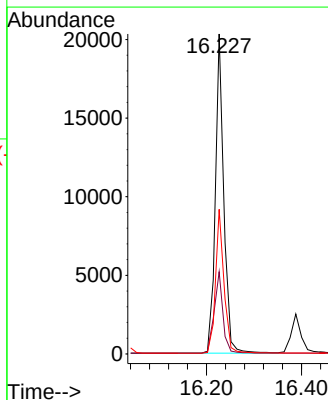
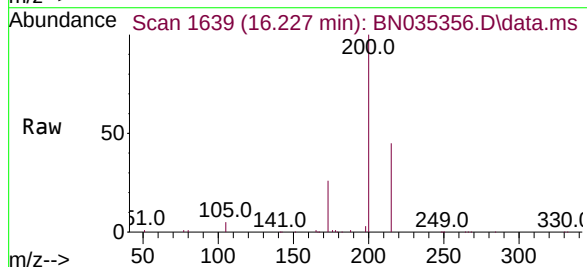
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

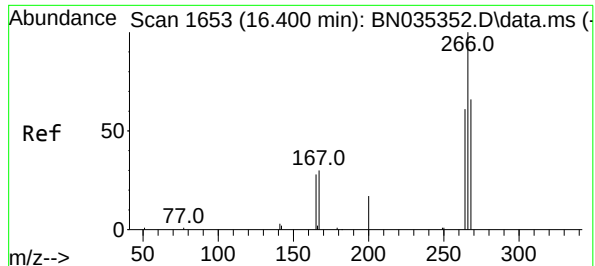
Tgt Ion:284 Resp: 36315
Ion Ratio Lower Upper
284 100
142 33.4 26.7 40.1
249 30.4 24.6 36.8



#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# 1652

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

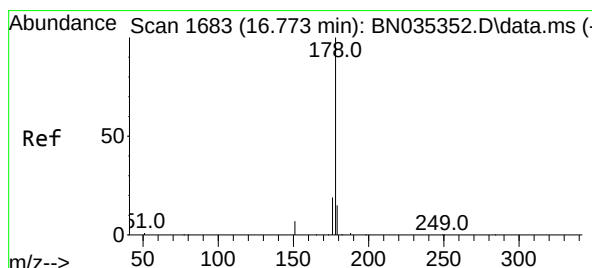
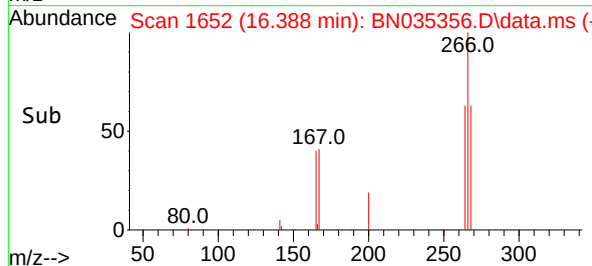
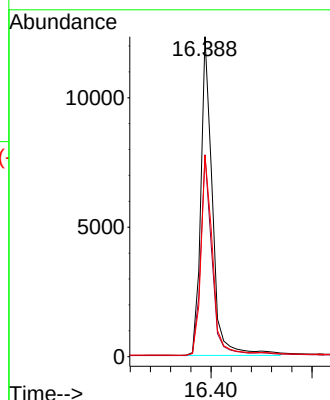
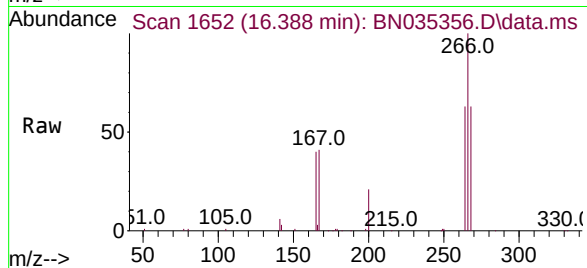
Tgt Ion:266 Resp: 19691

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

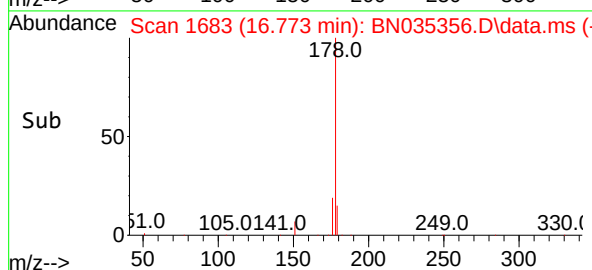
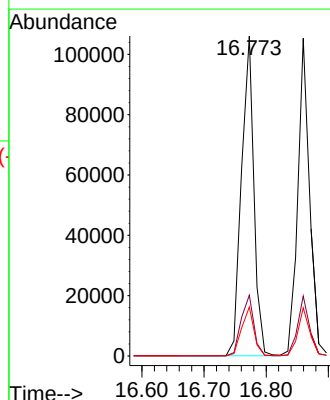
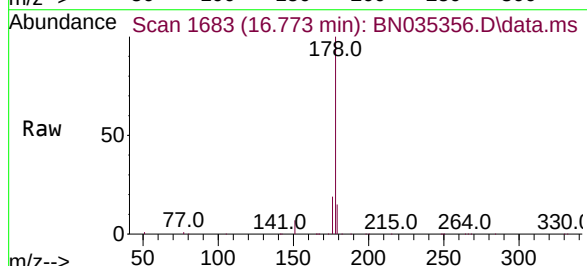
Tgt Ion:178 Resp: 147357

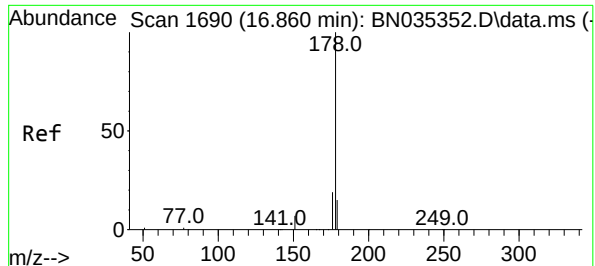
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5

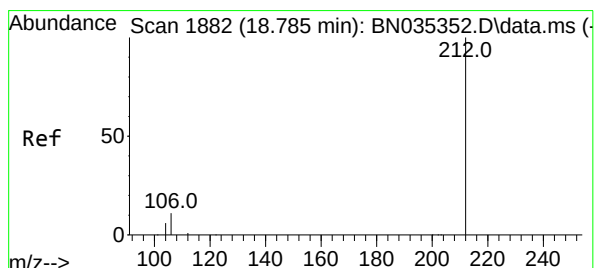
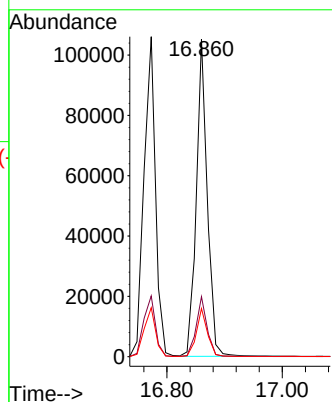
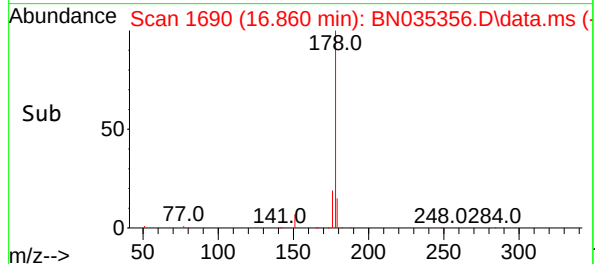
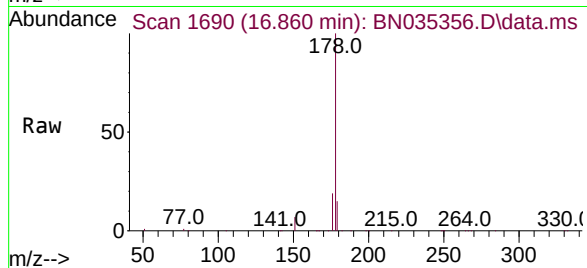




#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

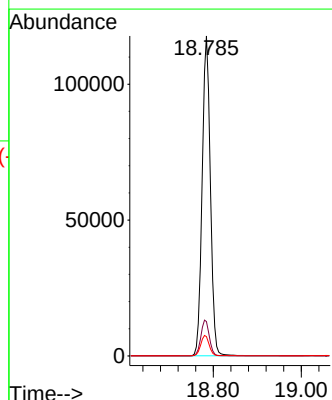
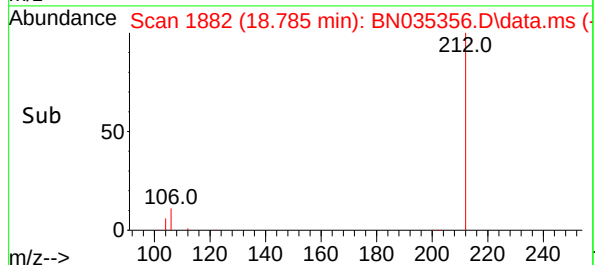
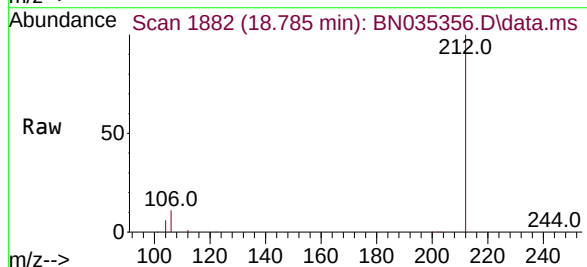
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

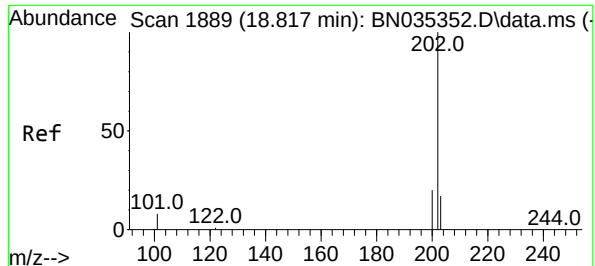
Tgt Ion:178 Resp: 139399
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.6 18.8



#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# 1888

Delta R.T. -0.005 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

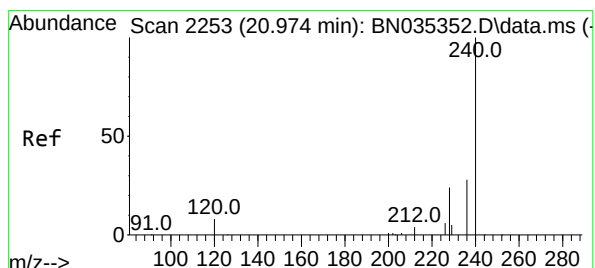
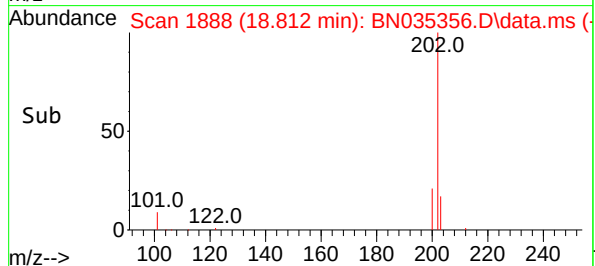
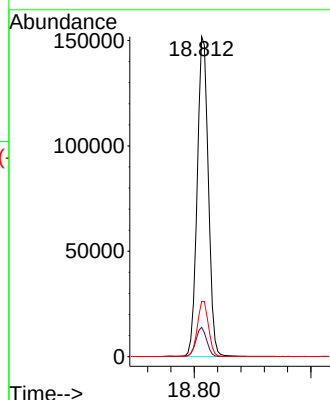
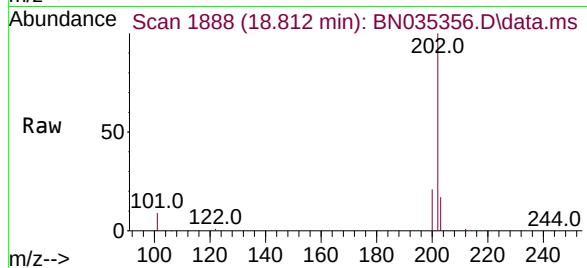
Tgt Ion:202 Resp: 199850

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

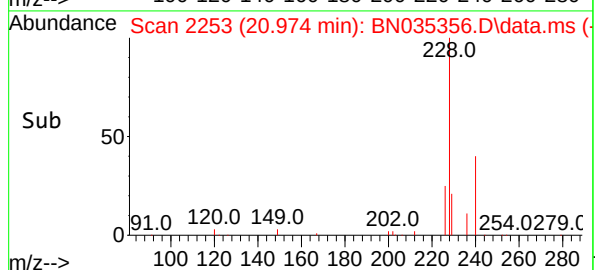
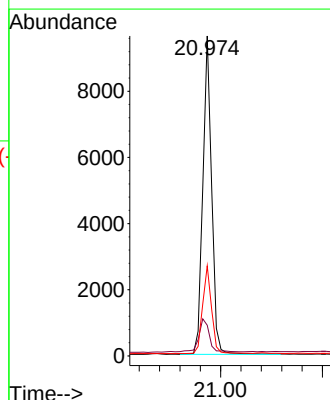
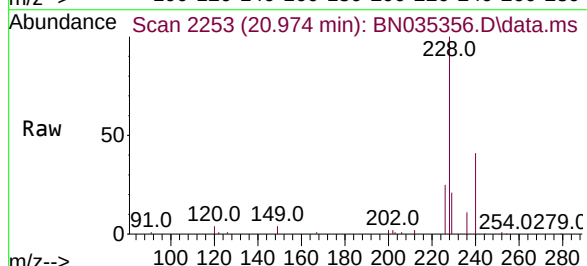
Tgt Ion:240 Resp: 11520

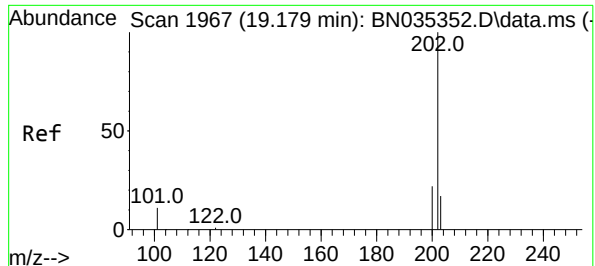
Ion Ratio Lower Upper

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# 1967

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

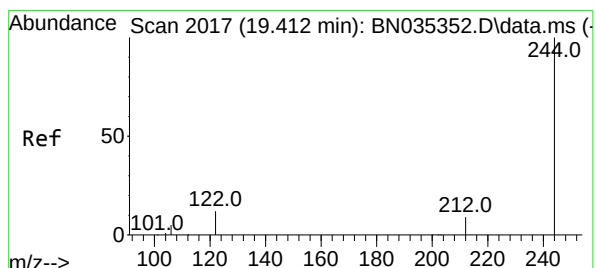
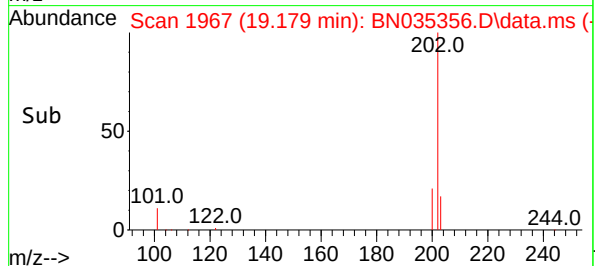
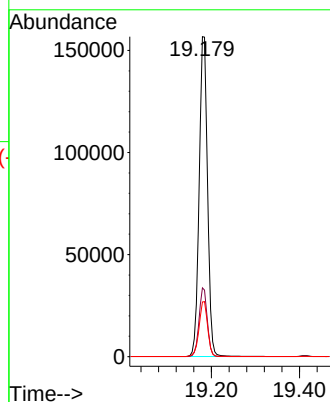
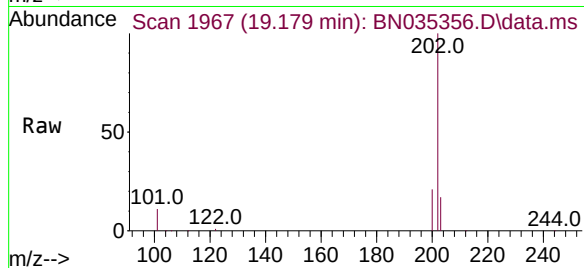
Tgt Ion:202 Resp: 206018

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

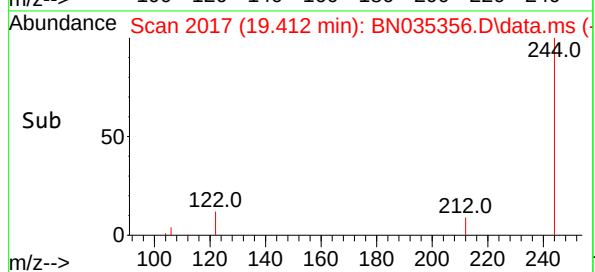
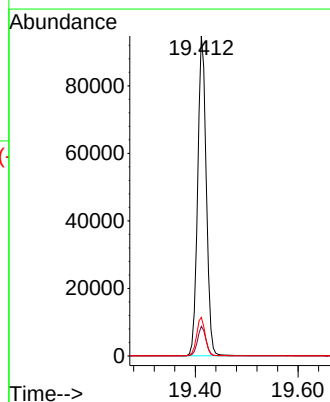
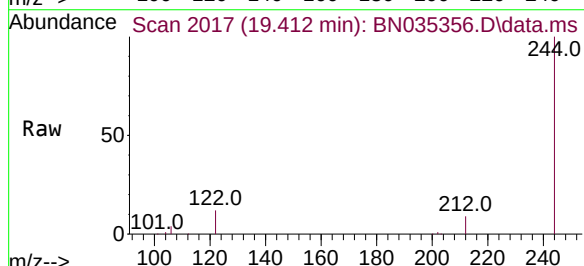
Tgt Ion:244 Resp: 110737

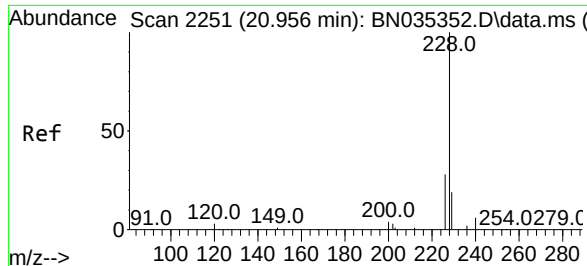
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.1 10.3 15.5

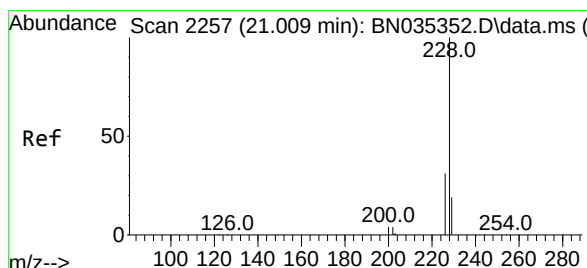
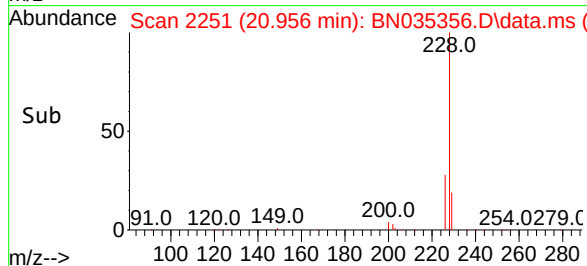
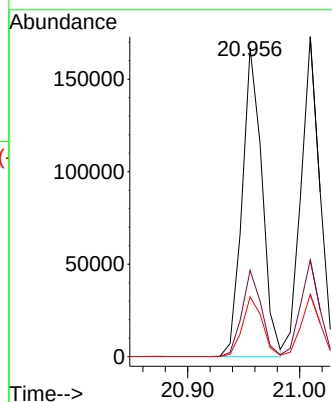
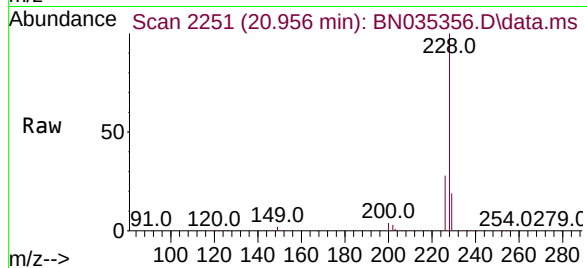




#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

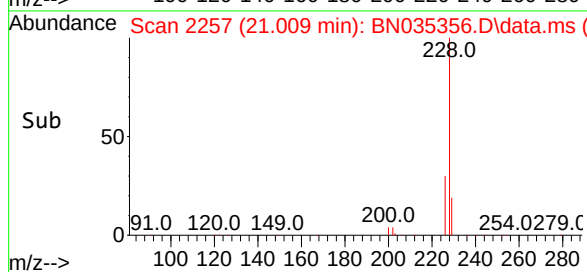
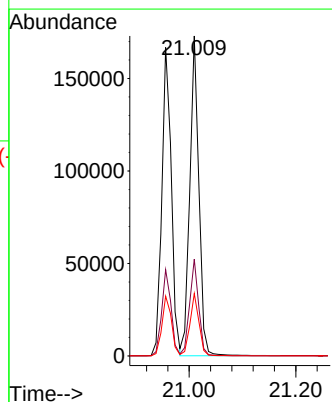
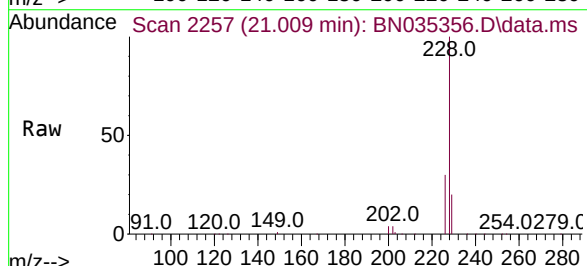
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

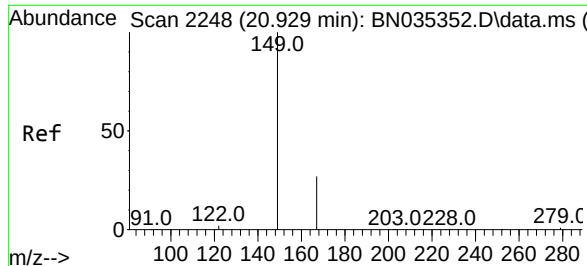
Tgt Ion:228 Resp: 205712
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.4 15.8 23.8



#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

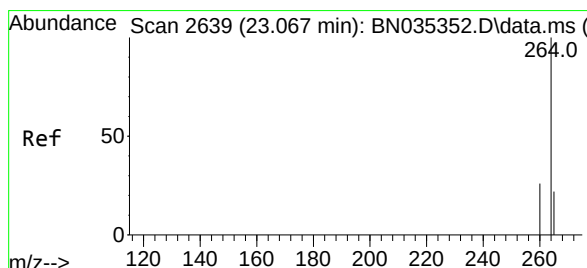
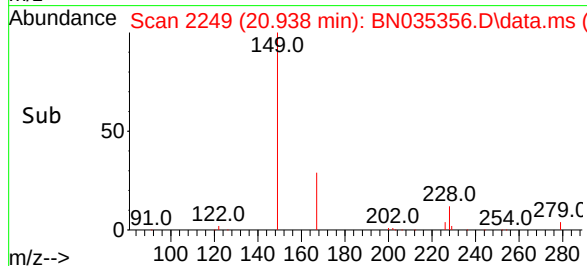
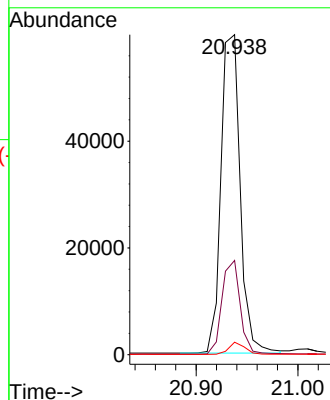
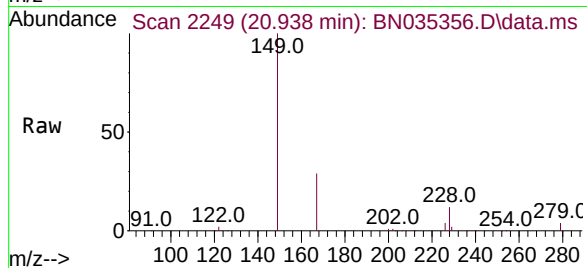




#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

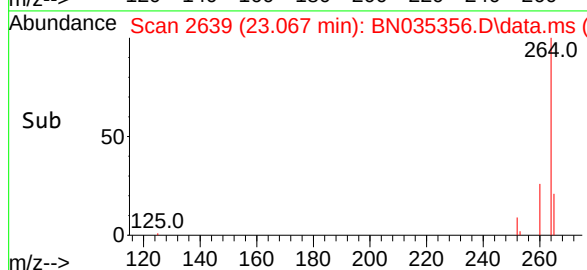
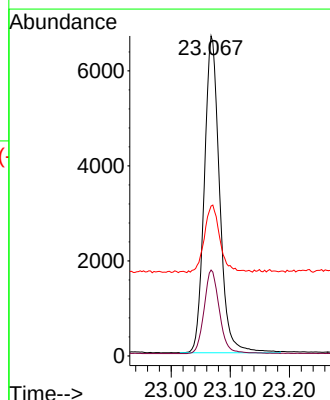
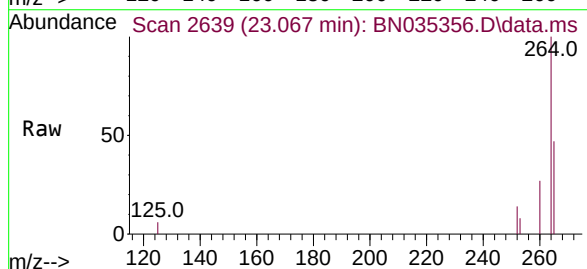
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

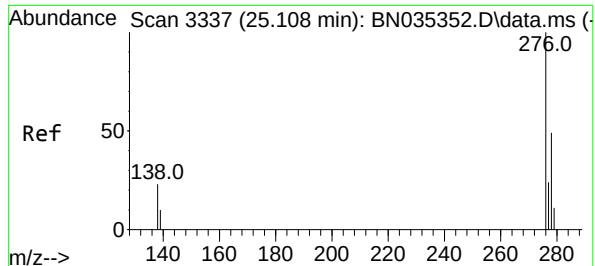
Tgt Ion:149 Resp: 78322
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.2 2.7 4.1



#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# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

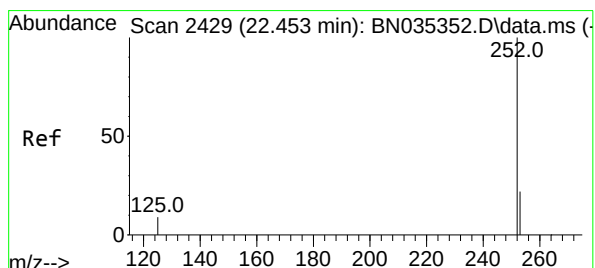
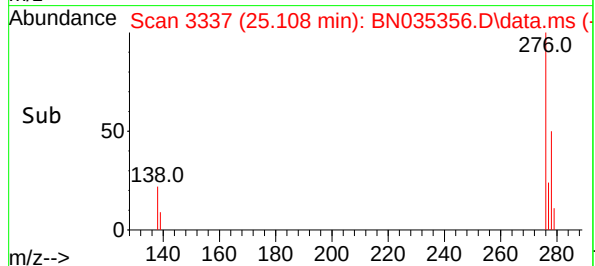
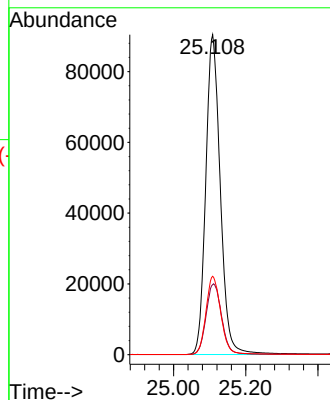
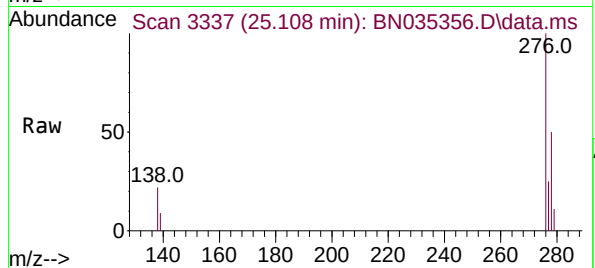
Tgt Ion:276 Resp: 252709

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

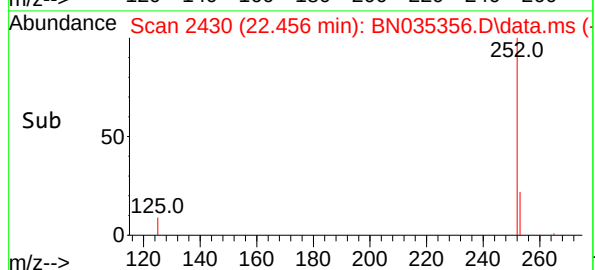
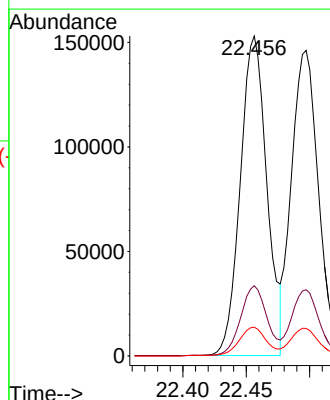
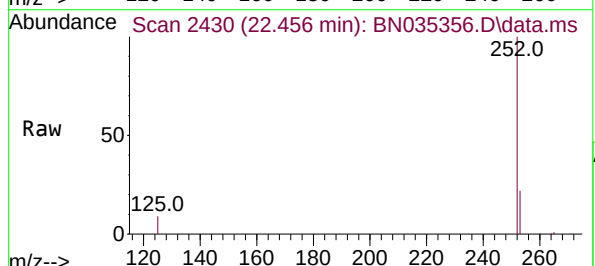
Tgt Ion:252 Resp: 241201

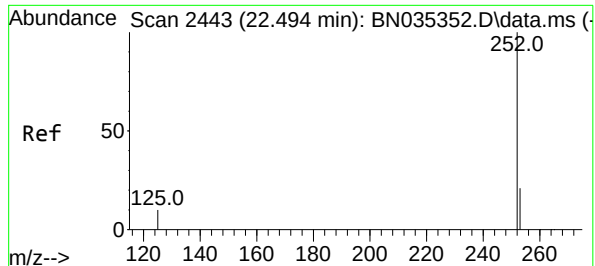
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

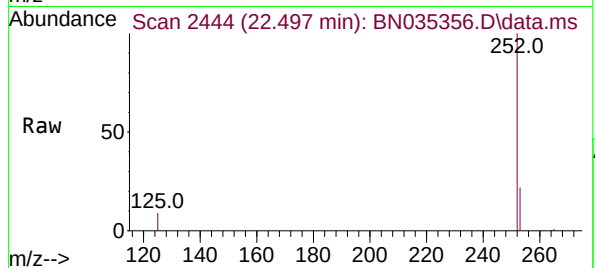
125 9.0 9.6 14.4#



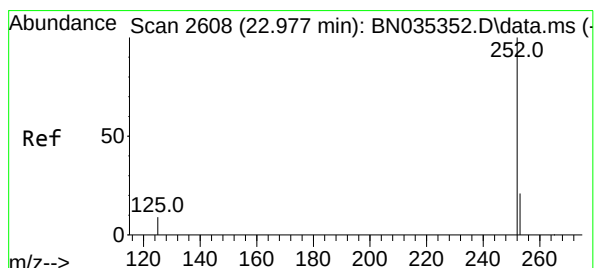
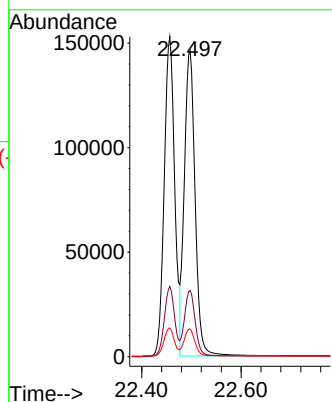


#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

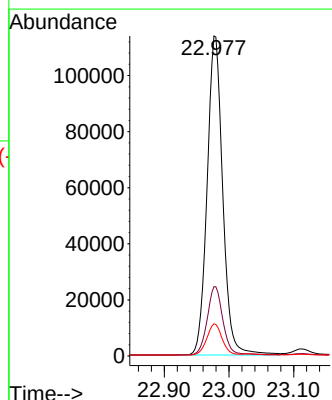
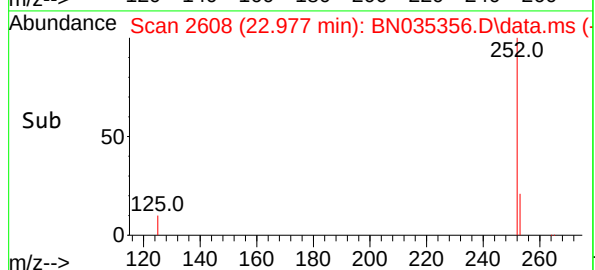
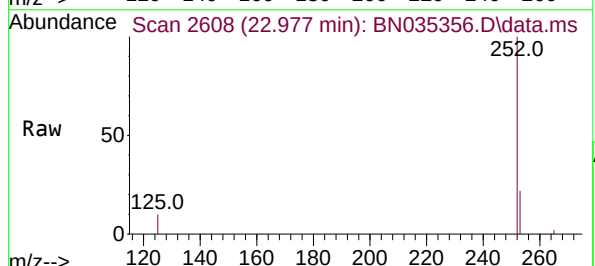


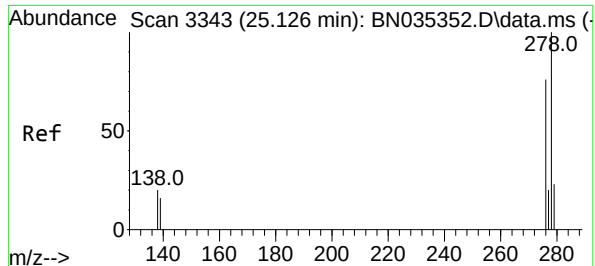
Tgt Ion:252 Resp: 220146
Ion Ratio Lower Upper
252 100
253 21.7 19.5 29.3
125 9.0 10.2 15.4#



#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# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

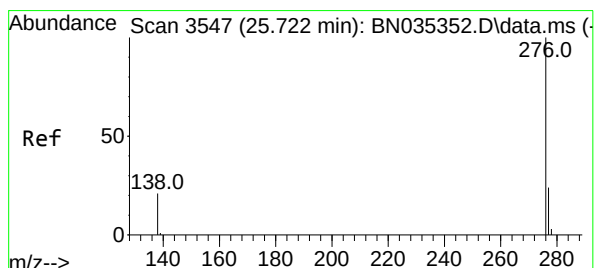
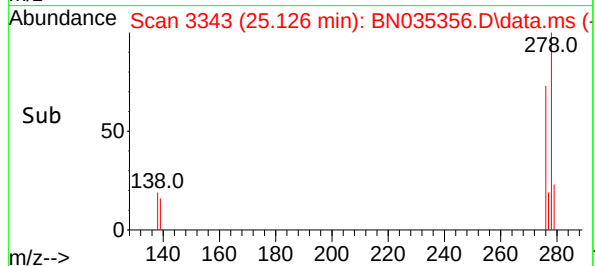
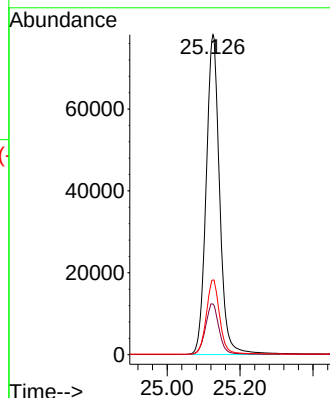
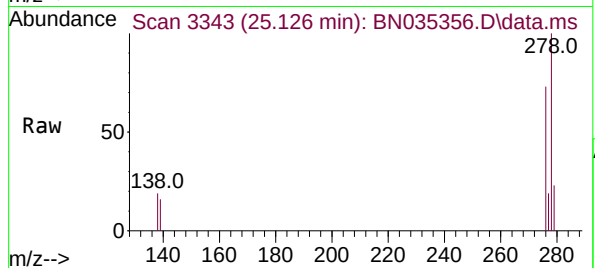
Tgt Ion:278 Resp: 199852

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

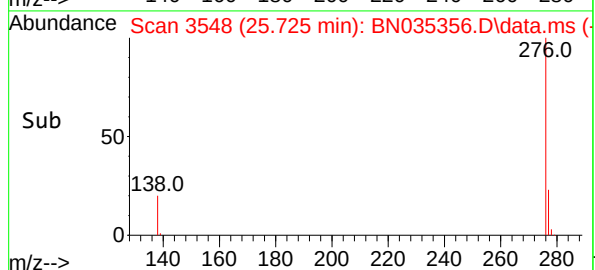
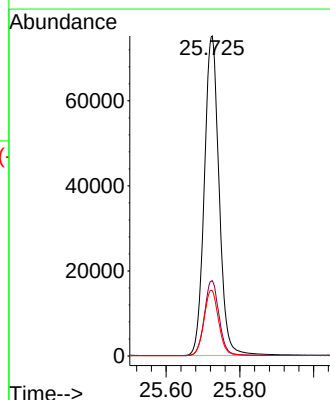
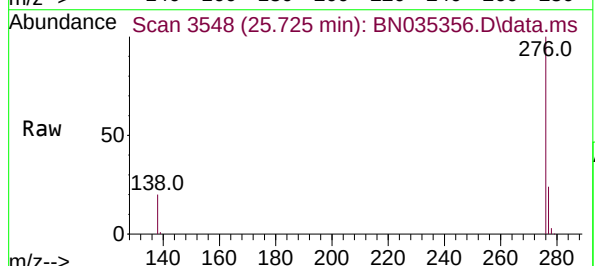
Tgt Ion:276 Resp: 209119

Ion Ratio Lower Upper

276 100

277 23.5 19.9 29.9

138 20.4 17.8 26.8



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

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

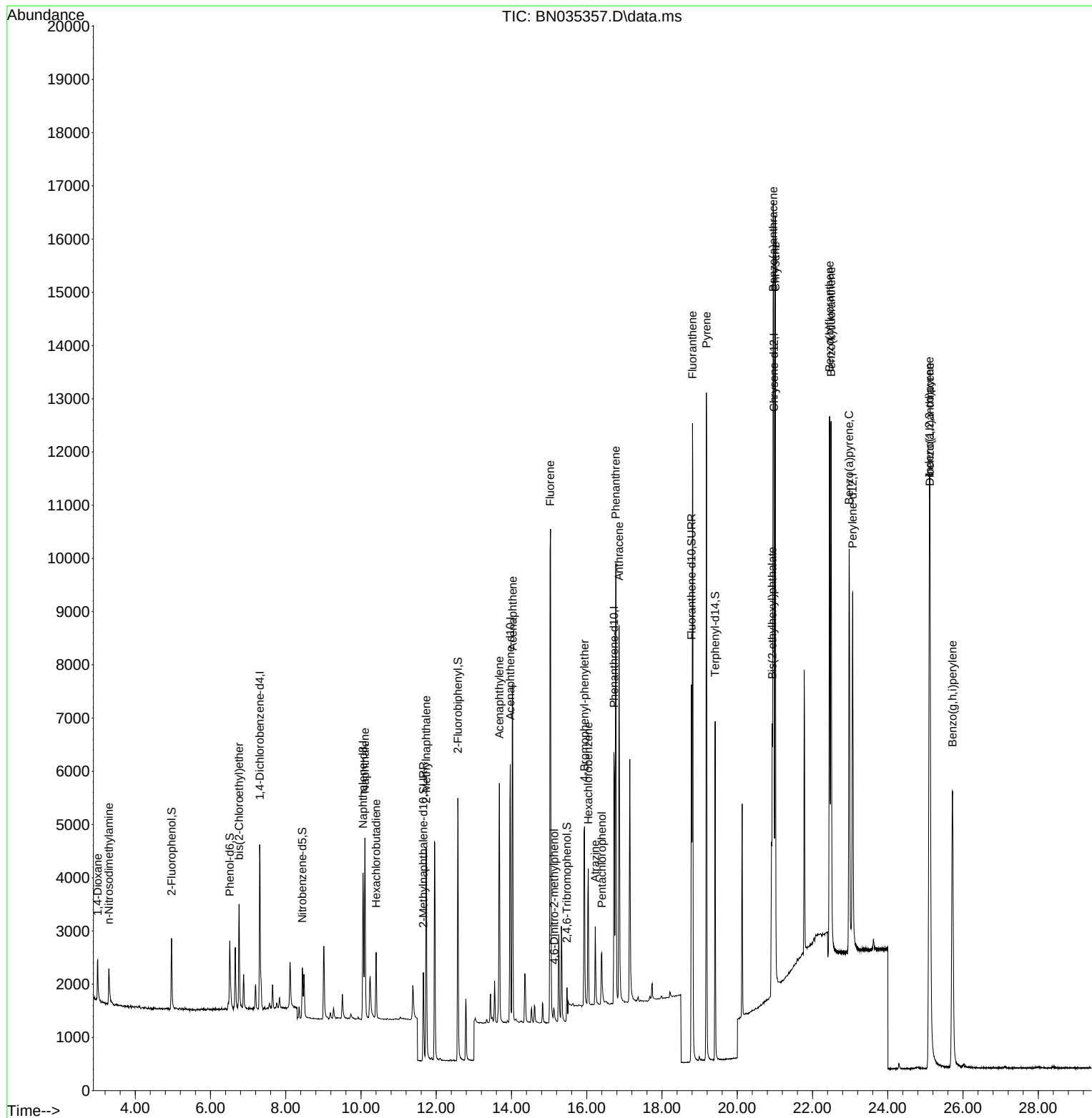
Manual Integrations

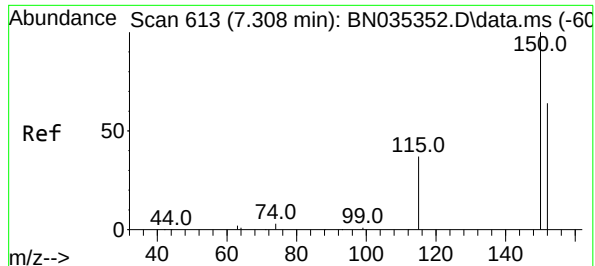
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

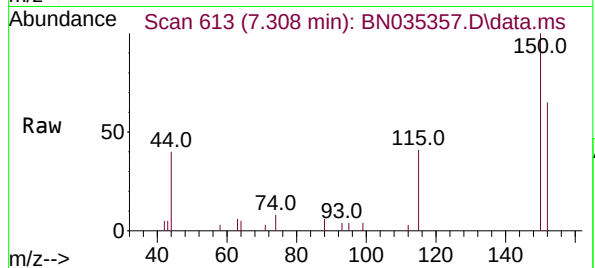
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#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

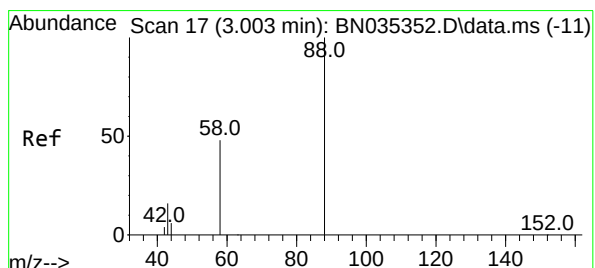
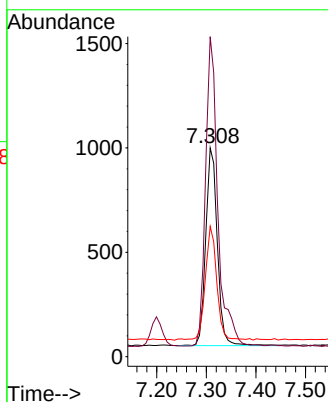
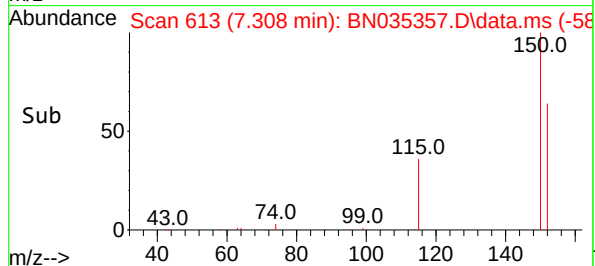
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

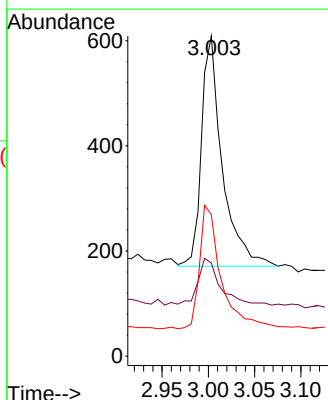
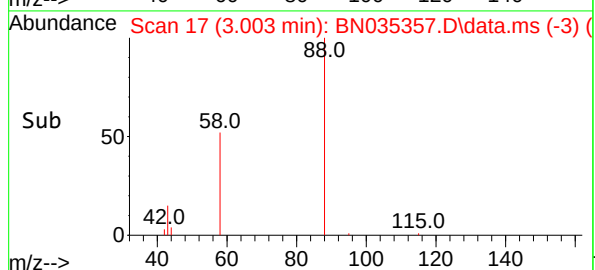
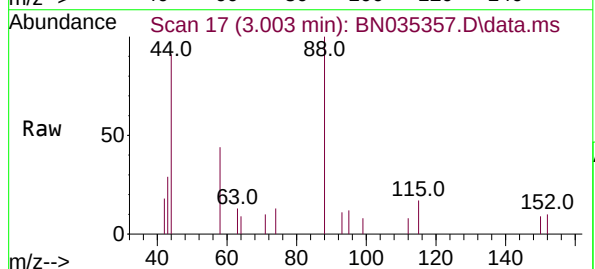
Manual Integrations
APPROVED

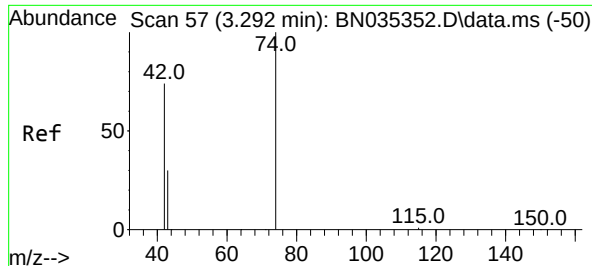
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

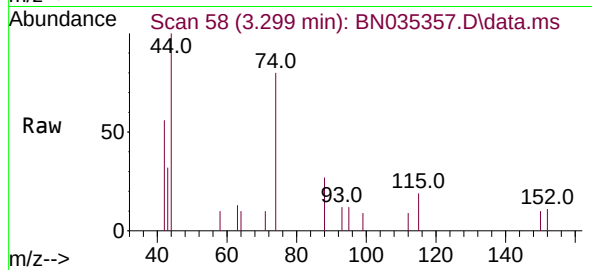
Tgt Ion: 88 Resp: 684
Ion Ratio Lower Upper
88 100
43 21.8 17.2 25.8
58 56.0 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 50
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

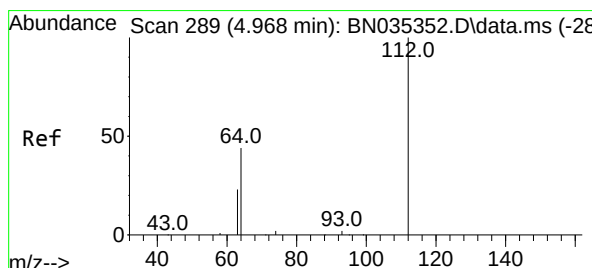
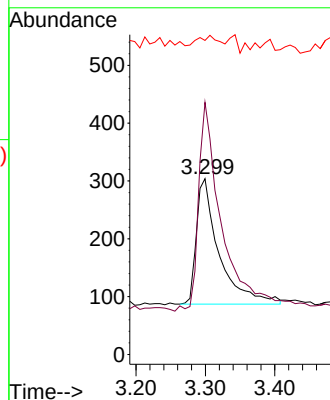
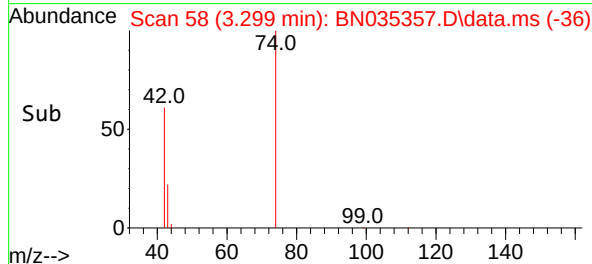
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

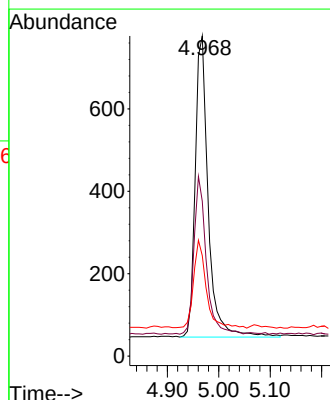
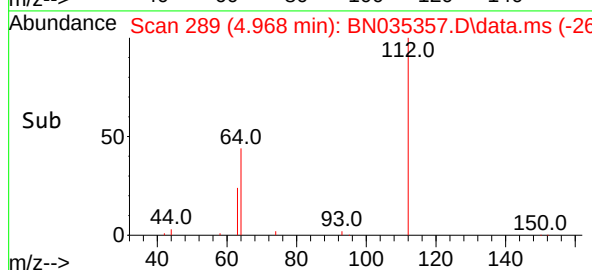
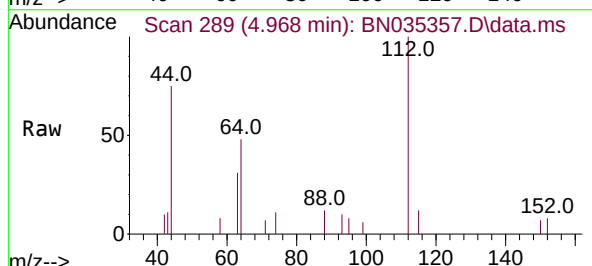
Manual Integrations
APPROVED

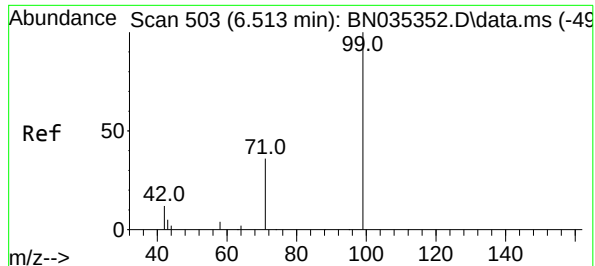
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





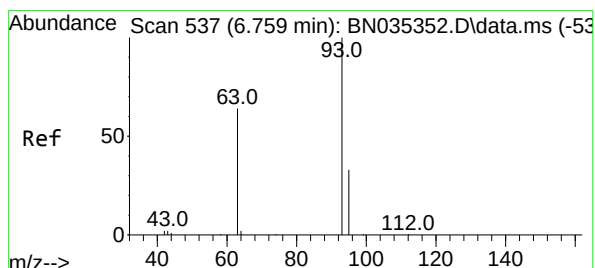
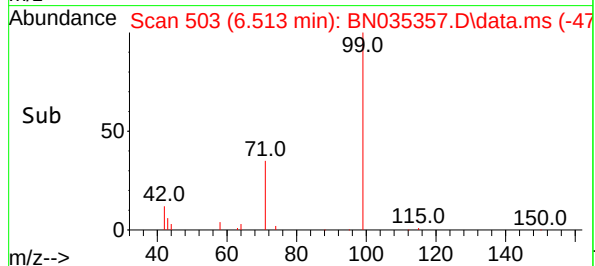
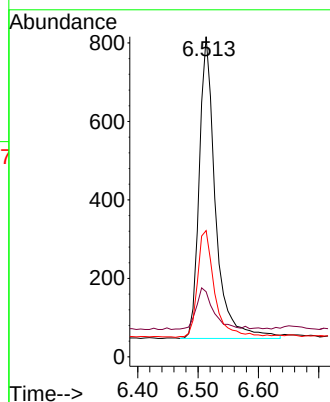
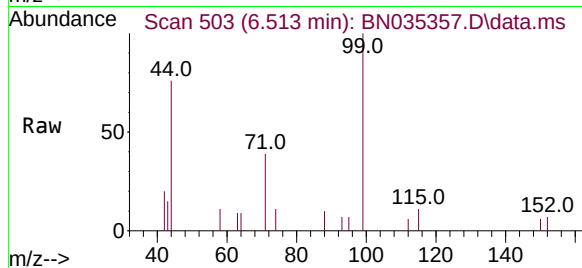
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 143
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 37.2 29.3 43.9

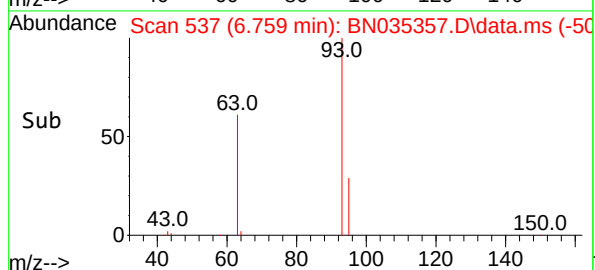
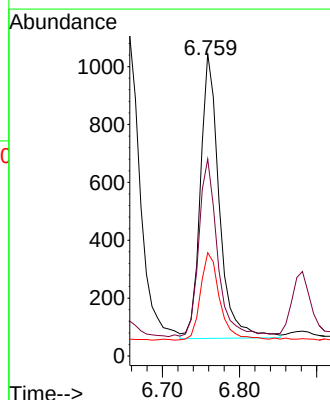
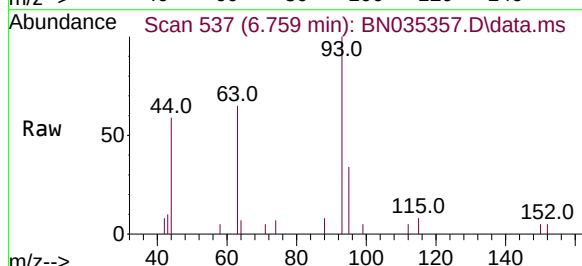
Manual Integrations
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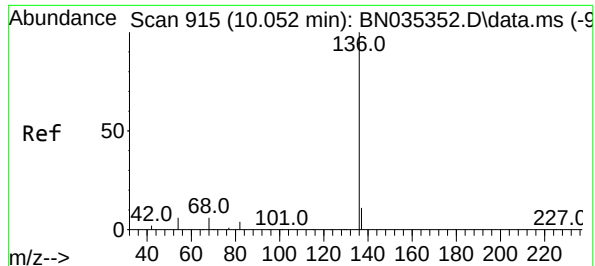
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

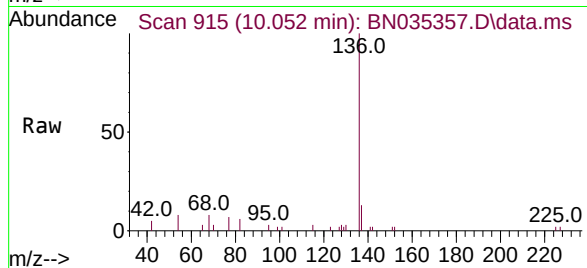
Tgt Ion: 93 Resp: 1676
Ion Ratio Lower Upper
93 100
63 62.1 50.4 75.6
95 31.4 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

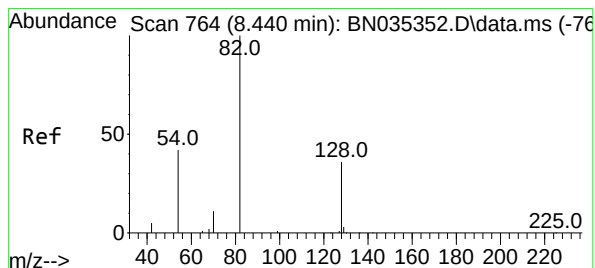
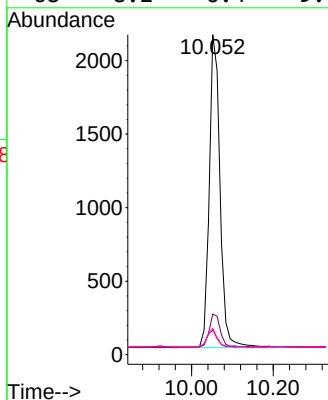
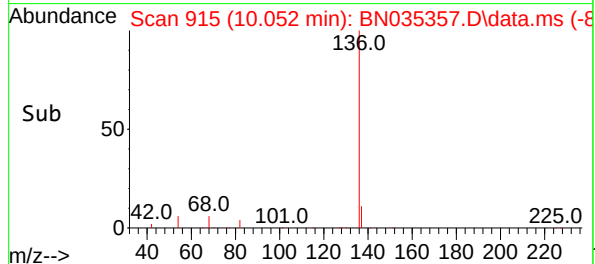
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt 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

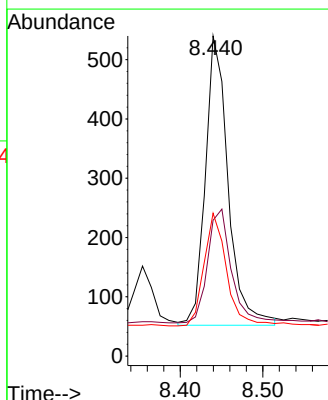
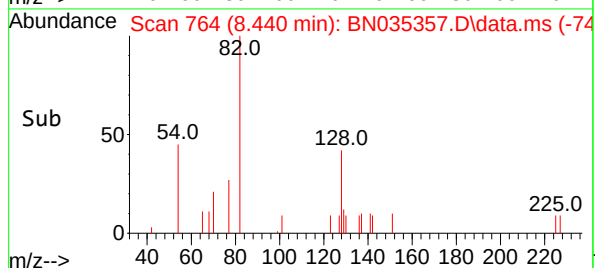
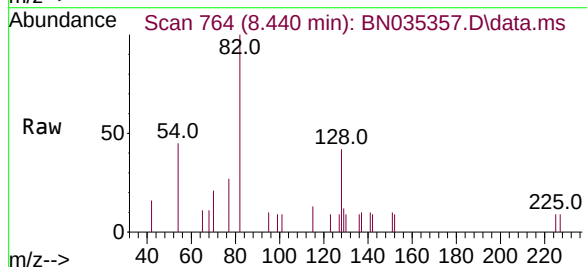
Manual Integrations
APPROVED

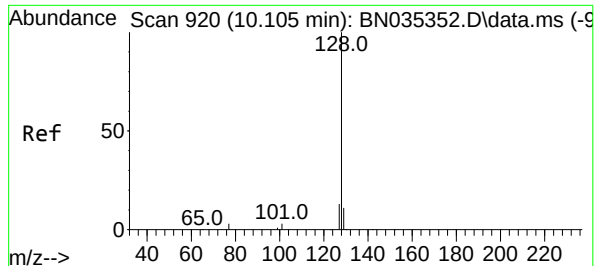
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

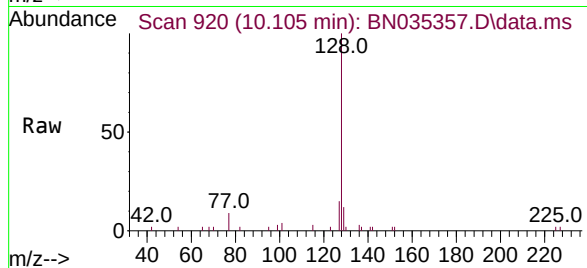
Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1





#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

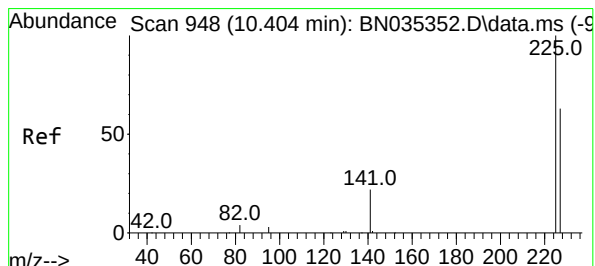
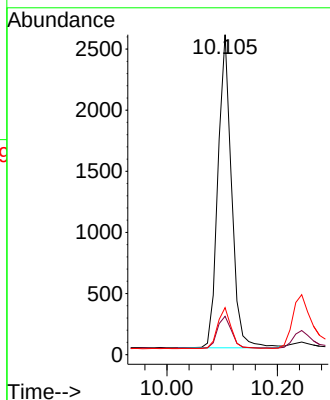
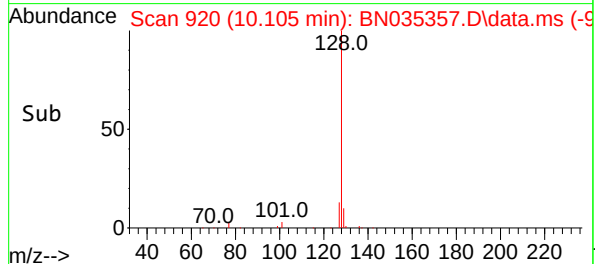
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



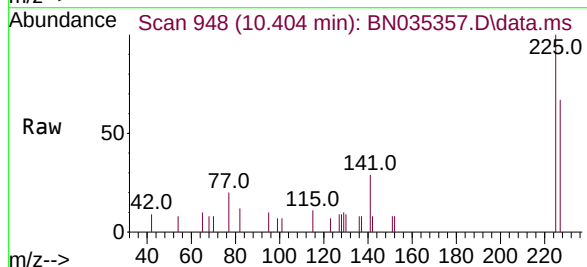
Tgt Ion:128 Resp: 4364
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.7 11.4 17.2

Manual Integrations
APPROVED

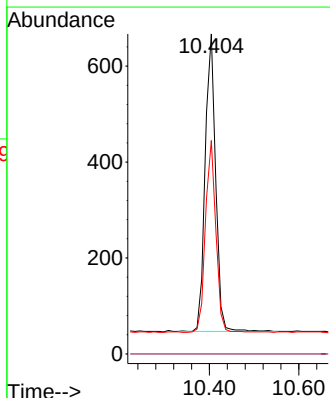
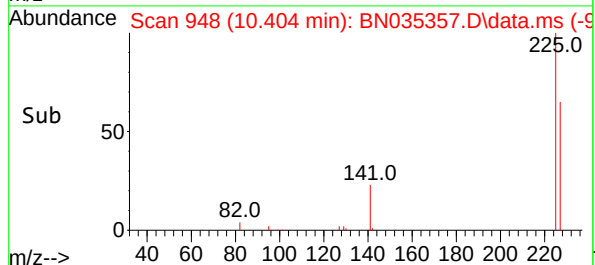
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

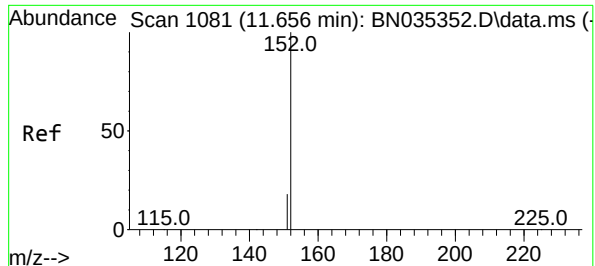


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



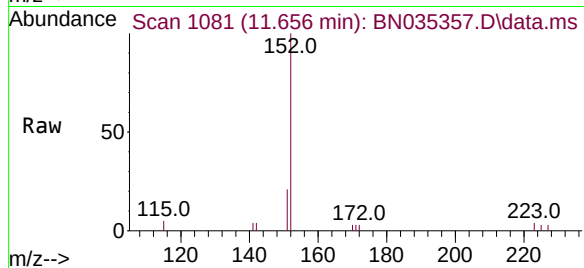
Tgt Ion:225 Resp: 1005
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

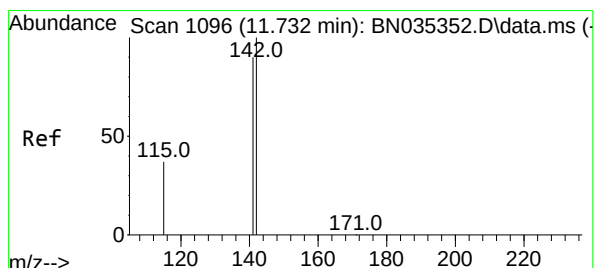
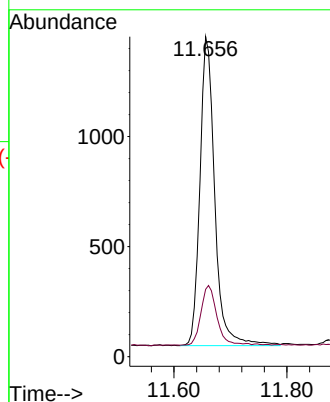
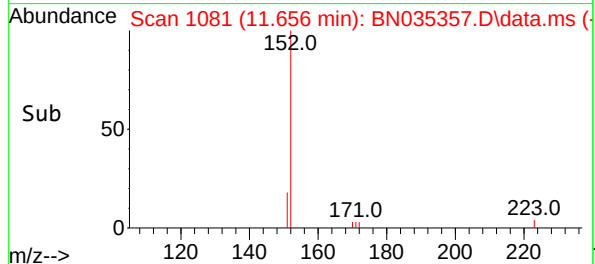
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:152 Resp: 256
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0

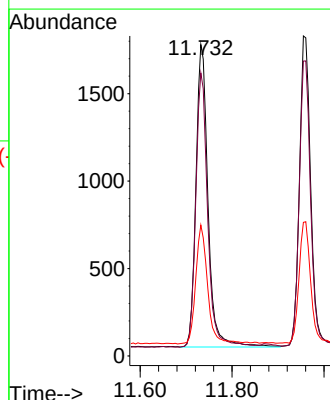
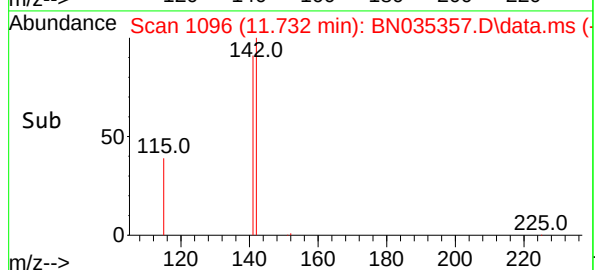
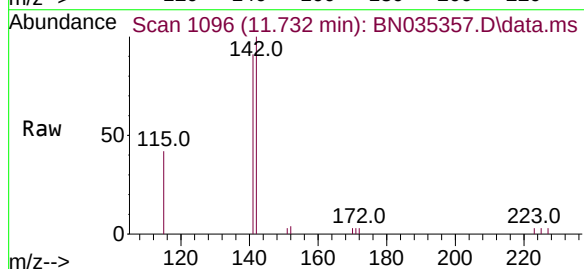
Manual Integrations
APPROVED

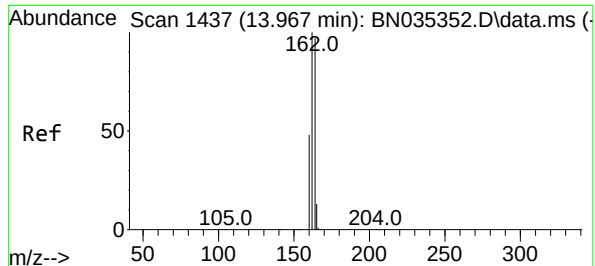
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

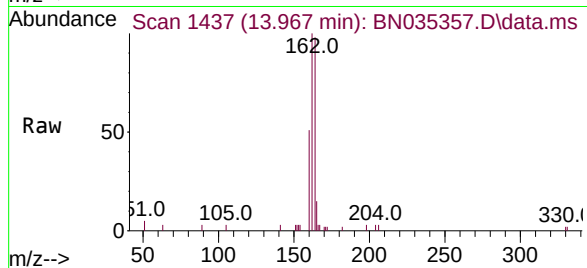
Tgt Ion:142 Resp: 3157
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 42.0 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

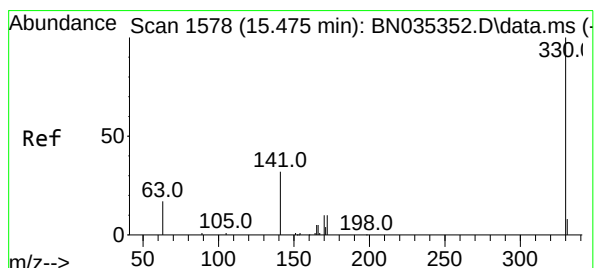
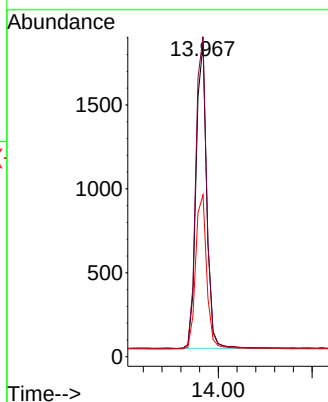
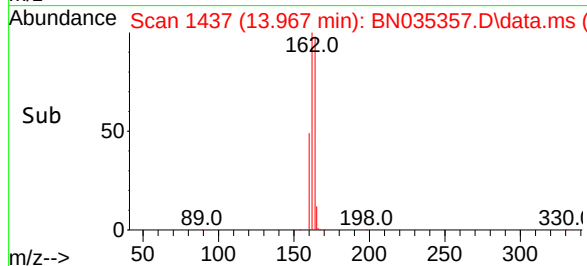
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



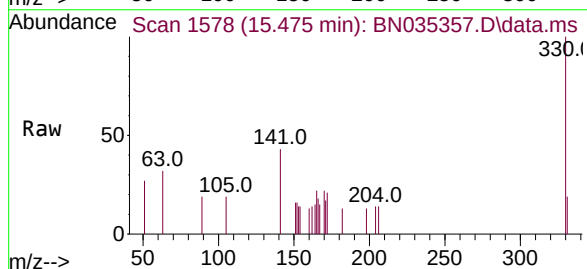
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1

Manual Integrations
APPROVED

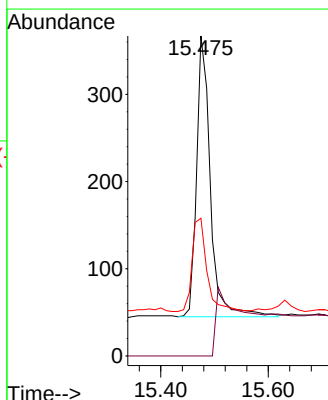
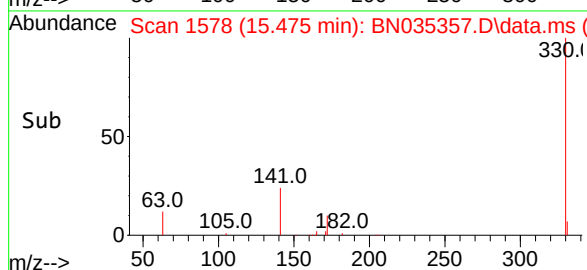
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

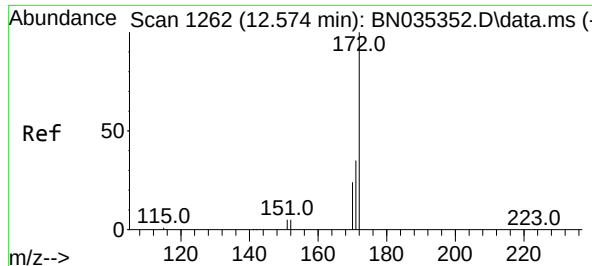


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



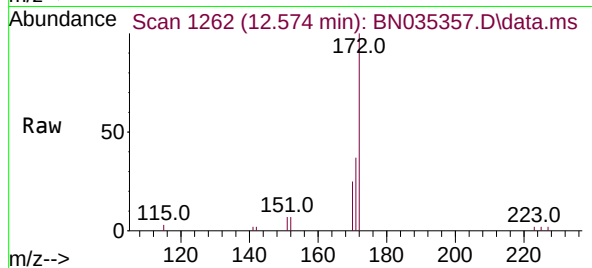
Tgt Ion:330 Resp: 617
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

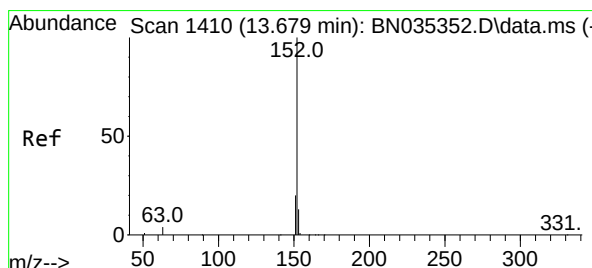
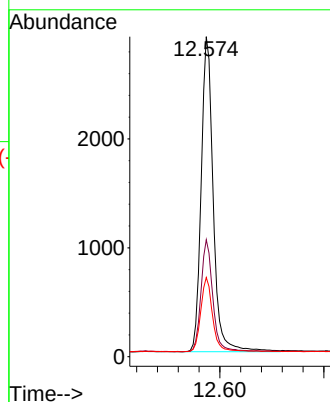
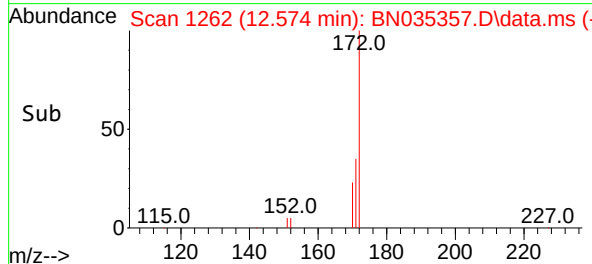
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:172 Resp: 464
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.7 19.8 29.8

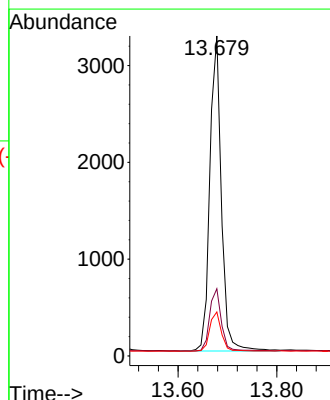
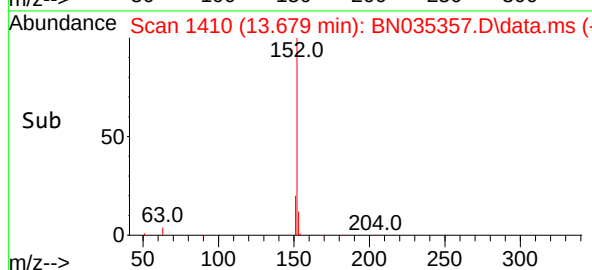
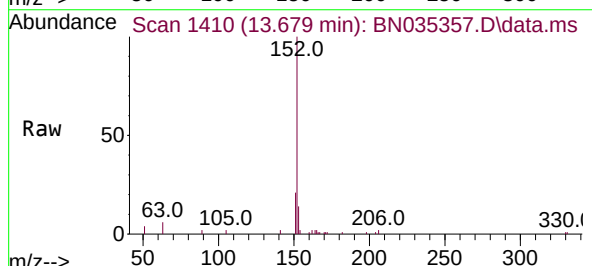
Manual Integrations
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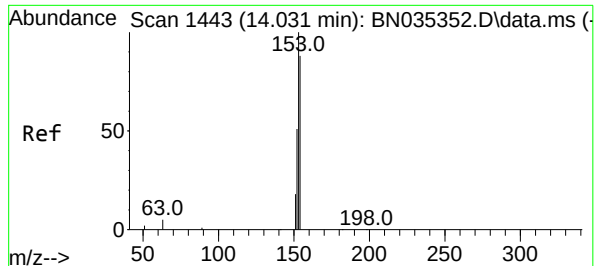
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

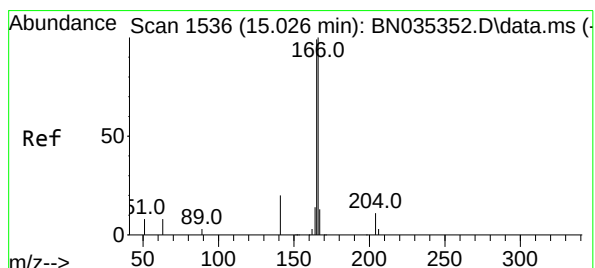
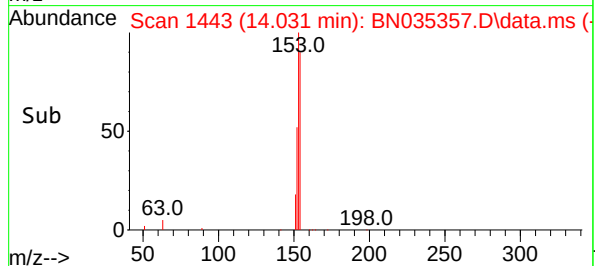
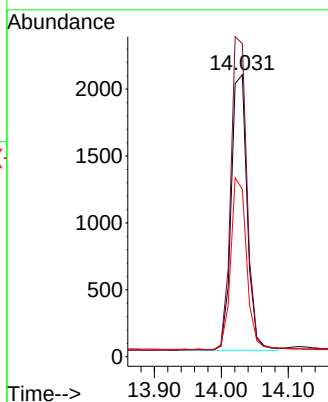
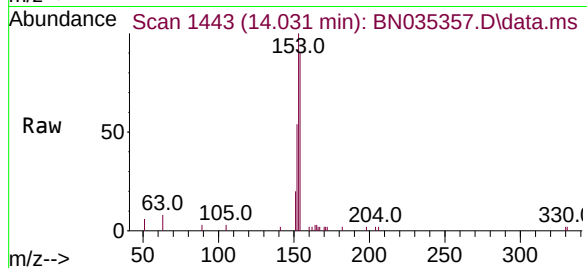
Tgt Ion:	154	Resp:	342
Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#18

Fluorene

Concen: 0.420 ng

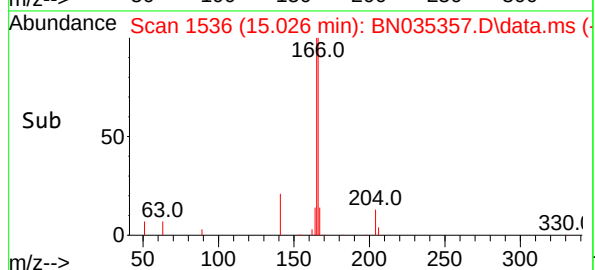
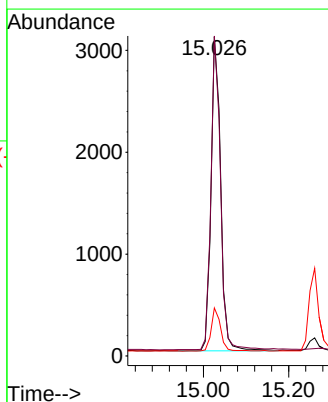
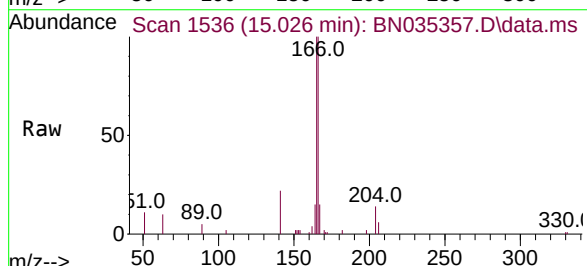
RT: 15.026 min Scan# 1536

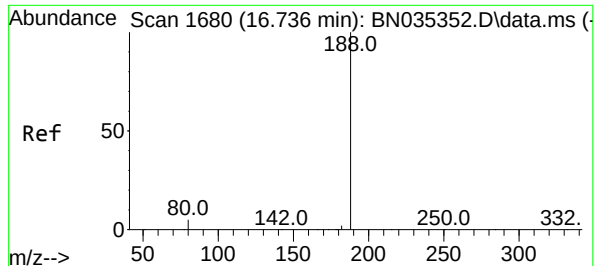
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

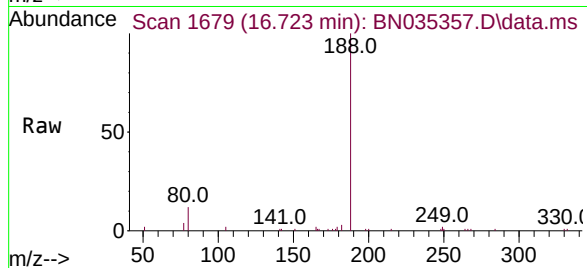
Tgt Ion:	166	Resp:	4825
Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

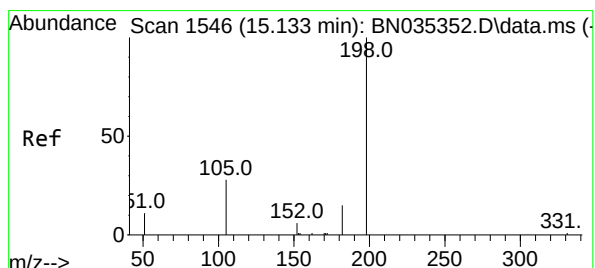
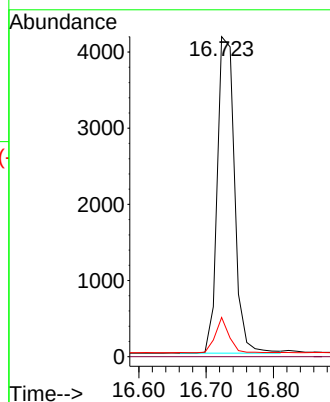
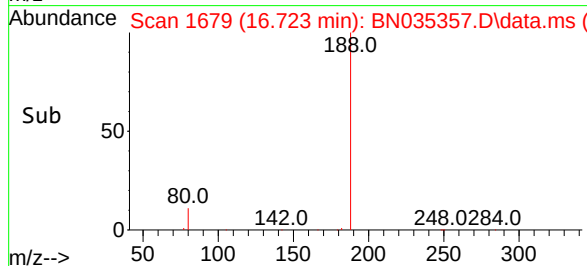
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

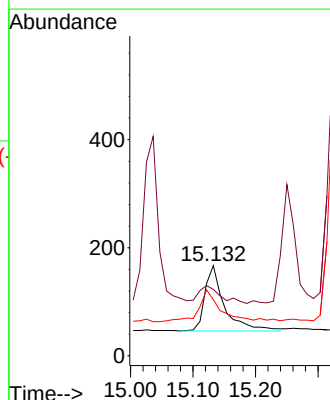
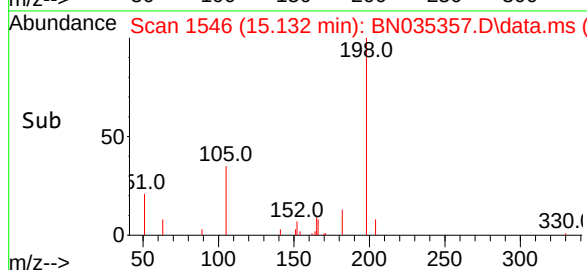
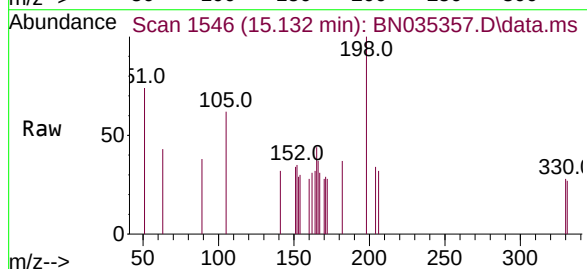
Manual Integrations
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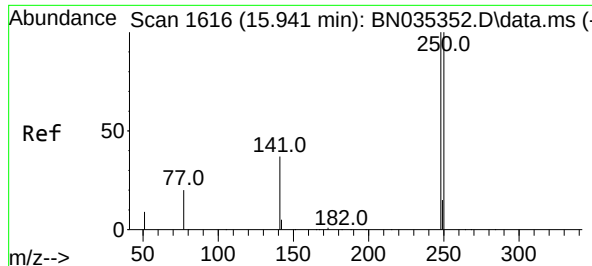
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





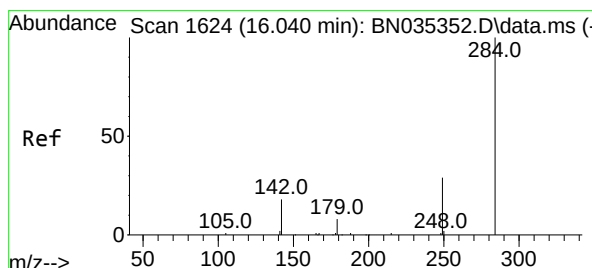
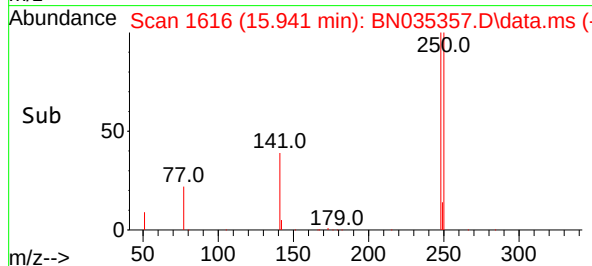
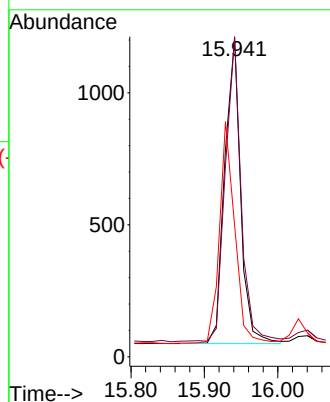
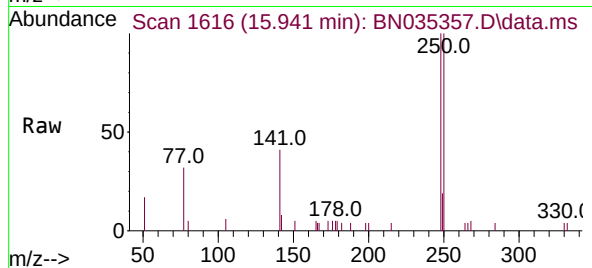
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:248 Resp: 174
Ion Ratio Lower Upper
248 100
250 100.3 80.6 120.8
141 41.2 31.5 47.3

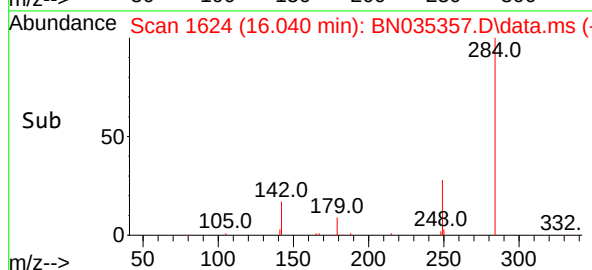
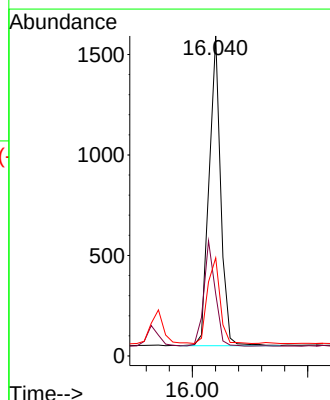
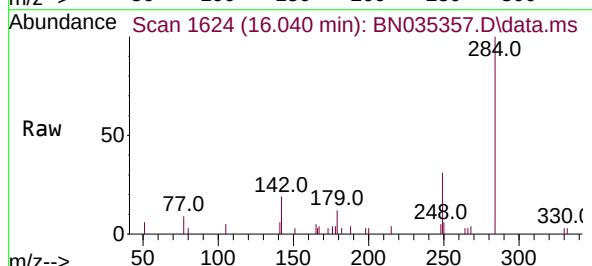
Manual Integrations
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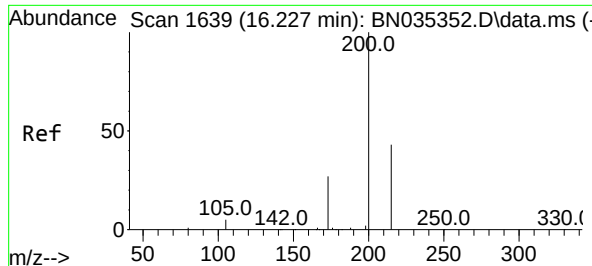
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





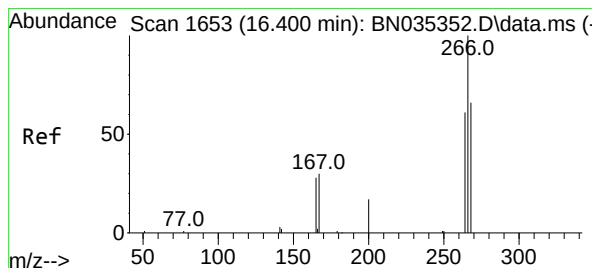
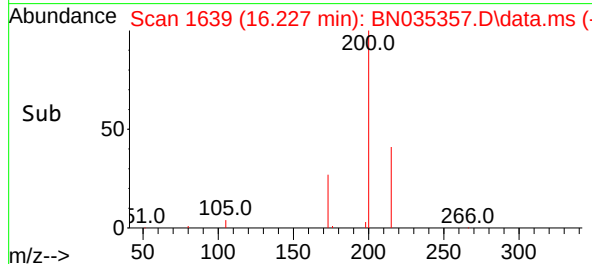
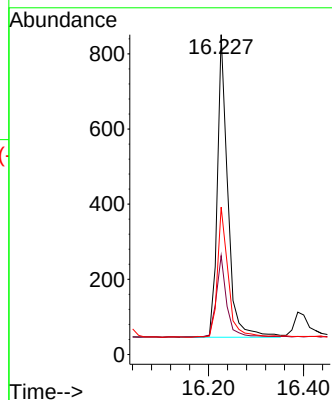
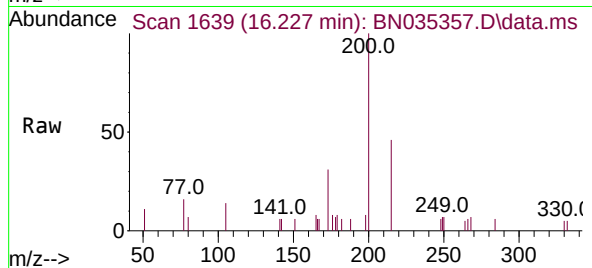
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 122
Ion Ratio Lower Upper
200 100
173 30.9 24.1 36.1
215 46.1 36.9 55.3

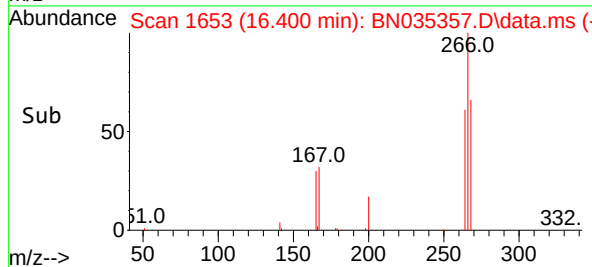
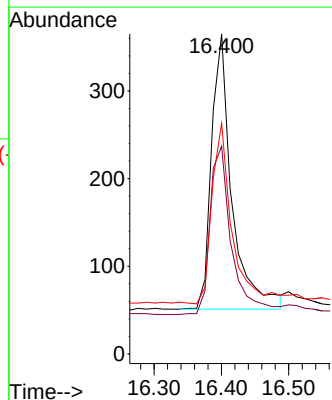
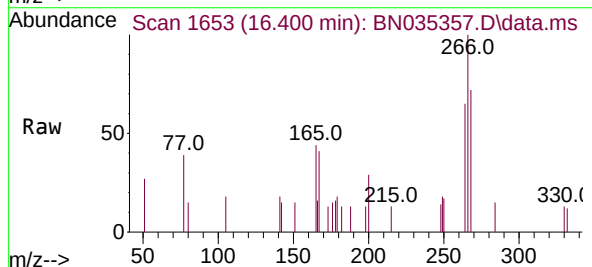
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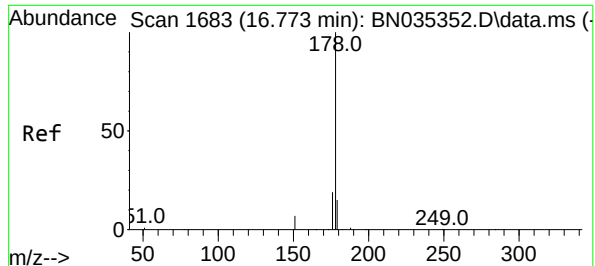
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

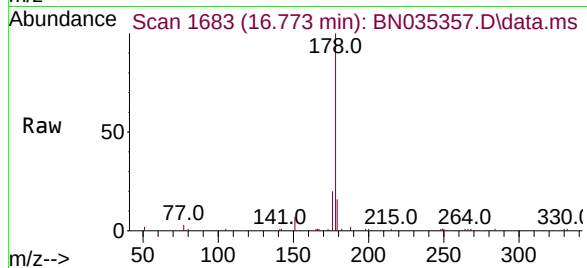
Tgt Ion:266 Resp: 662
Ion Ratio Lower Upper
266 100
264 65.0 42.3 63.5#
268 66.8 43.3 64.9#





#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

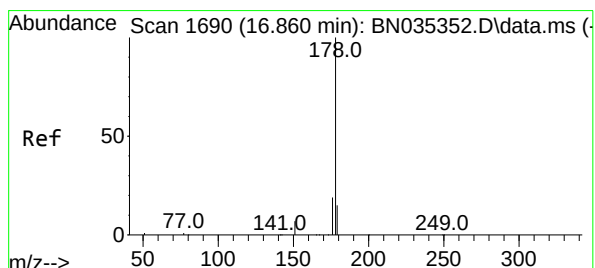
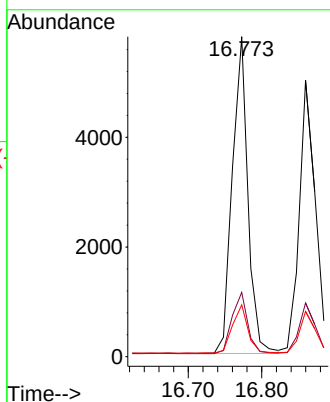
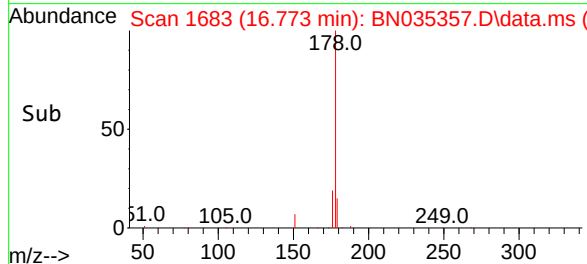
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

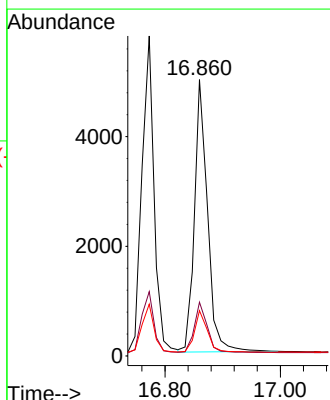
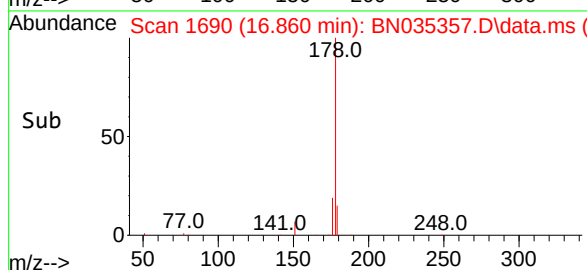
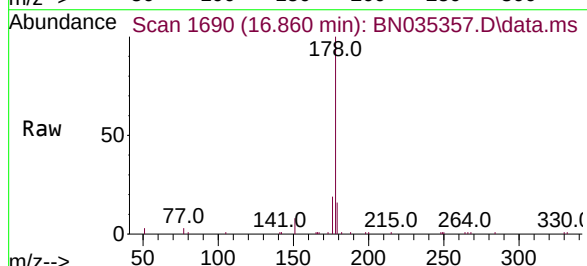
Manual Integrations
APPROVED

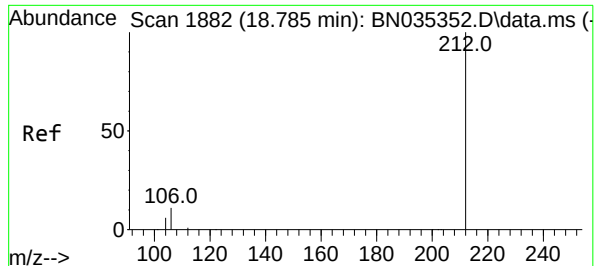
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

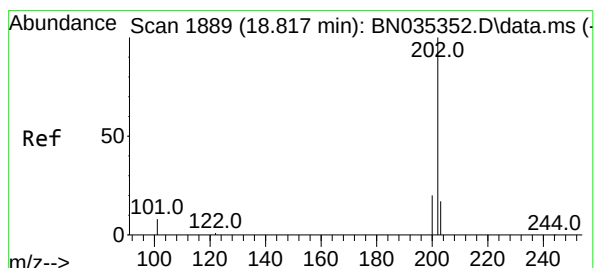
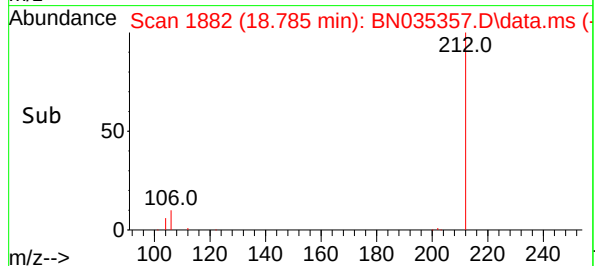
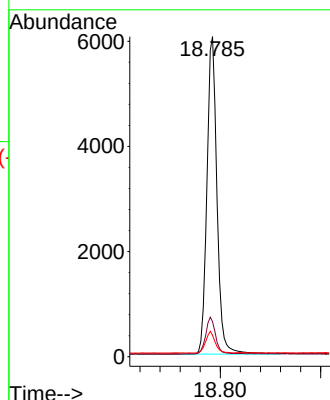
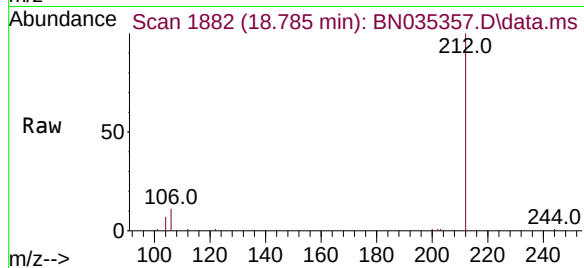
ICVBN112724

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

Manual Integrations

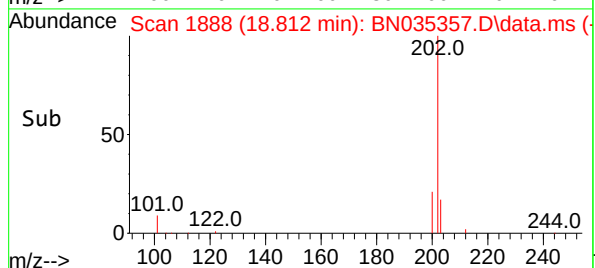
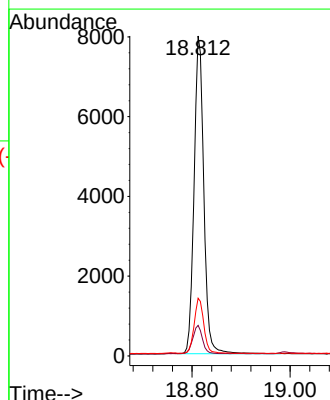
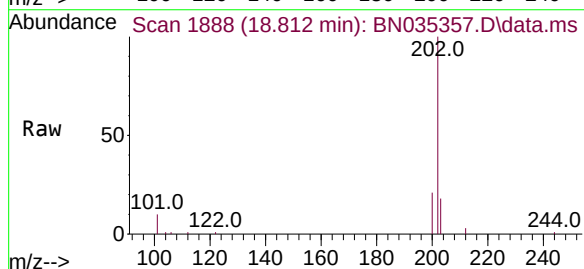
APPROVED

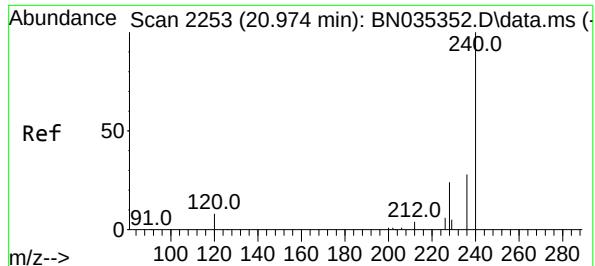
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	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# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

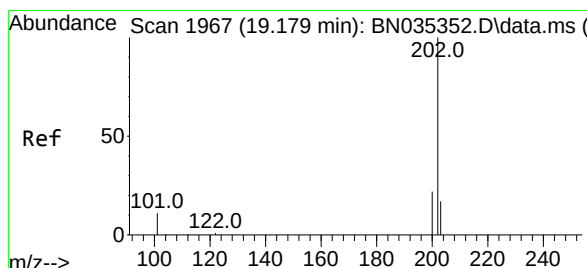
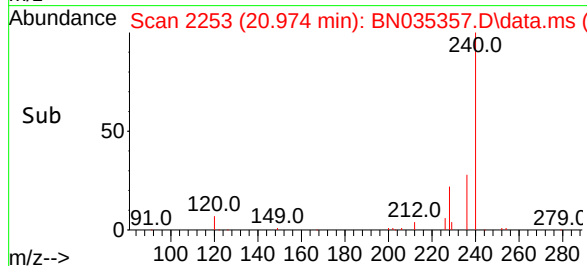
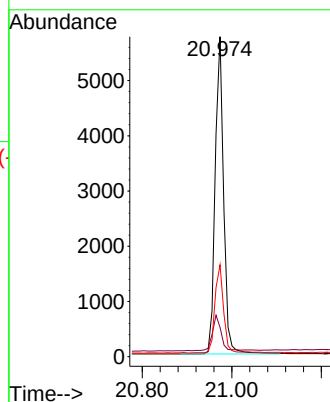
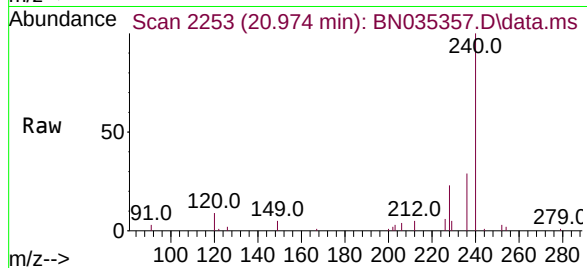
Tgt Ion:	240	Resp:	7570
Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.410 ng

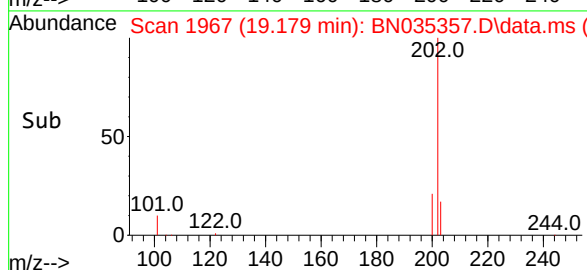
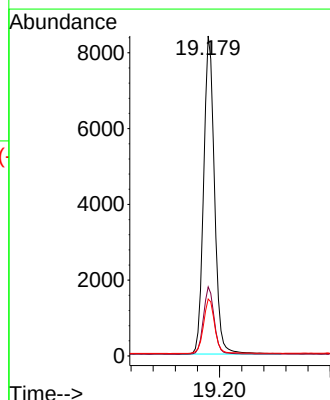
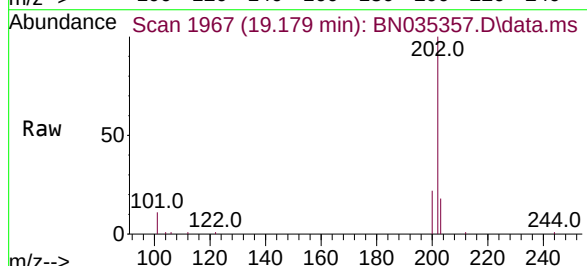
RT: 19.179 min Scan# 1967

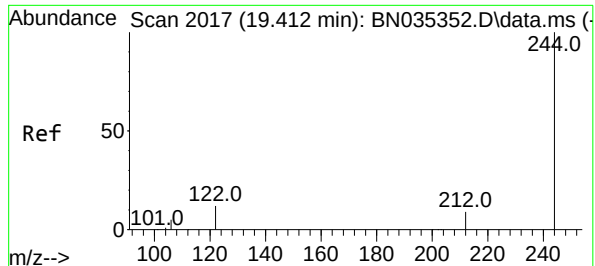
Delta R.T. -0.000 min

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





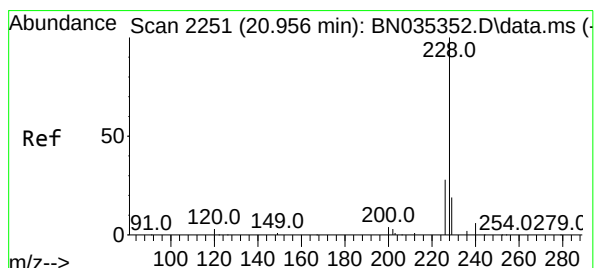
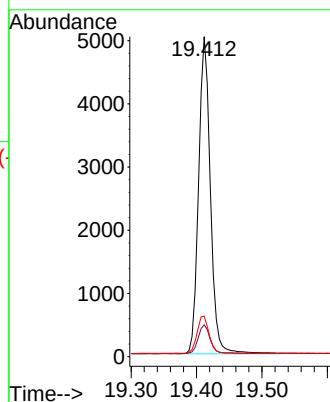
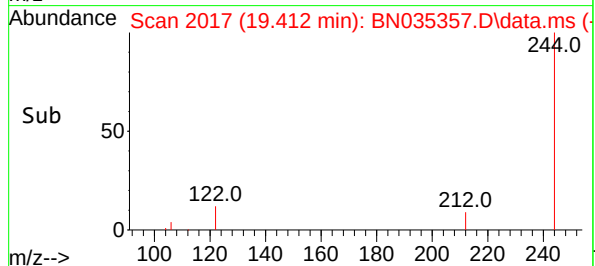
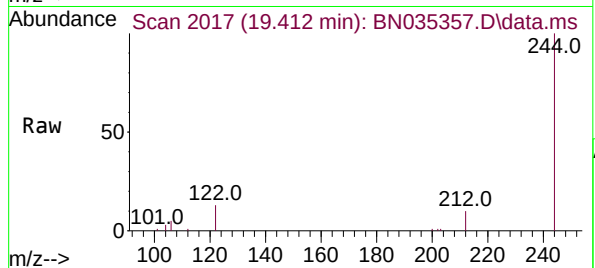
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

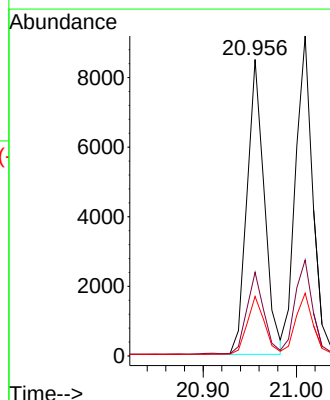
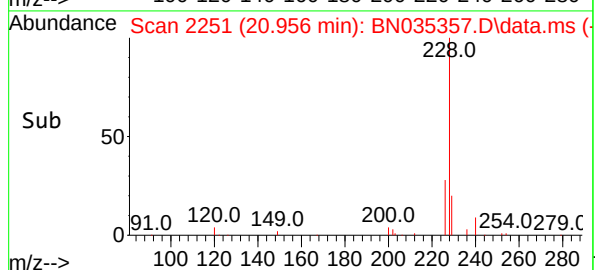
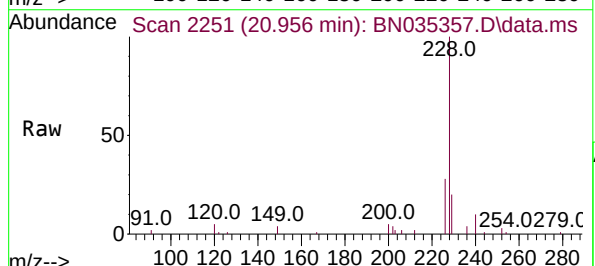
Manual Integrations
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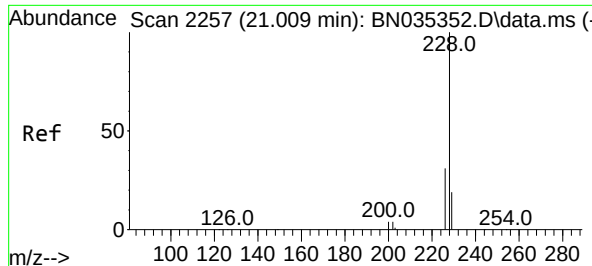
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

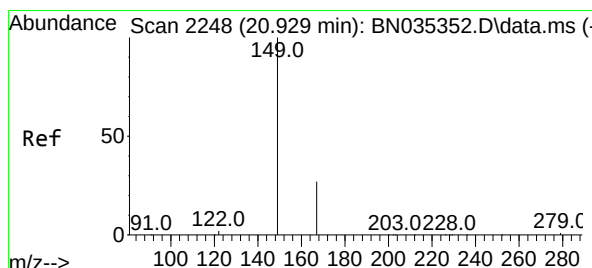
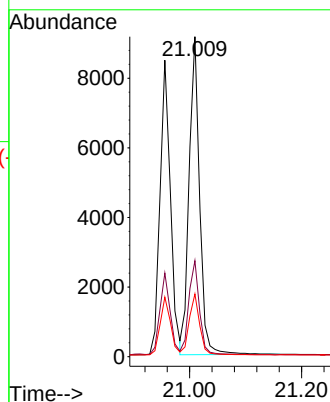
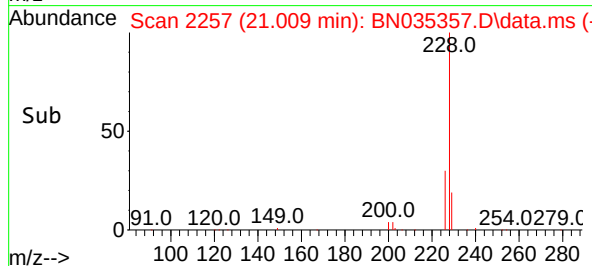
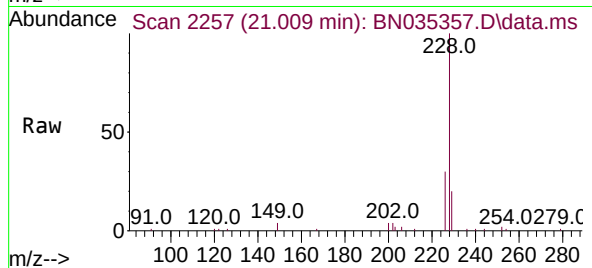
ICVBN112724

Tgt Ion:228	Resp: 11920
Ion Ratio	Lower Upper
228 100	
226 30.0	24.6 37.0
229 19.6	15.9 23.9

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

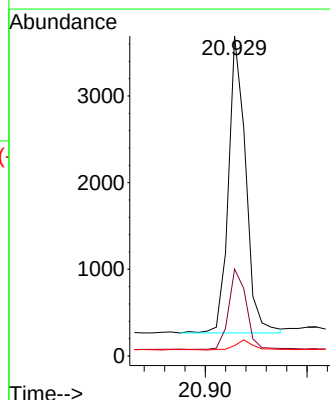
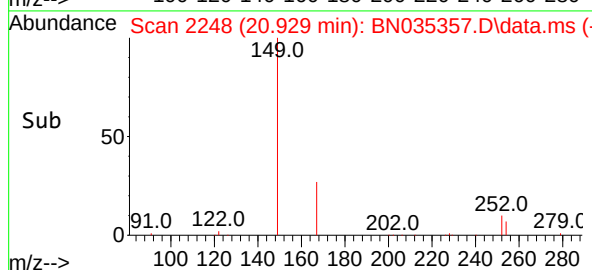
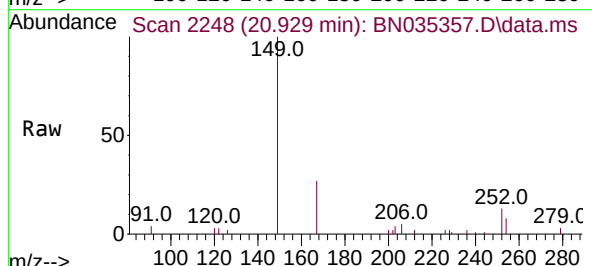
RT: 20.929 min Scan# 2248

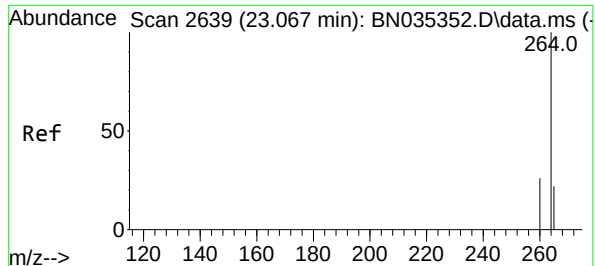
Delta R.T. -0.000 min

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





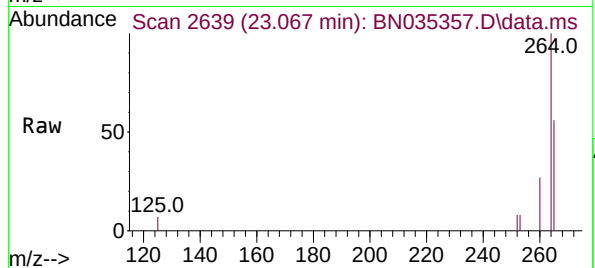
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



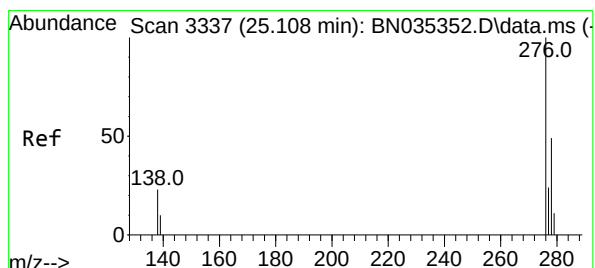
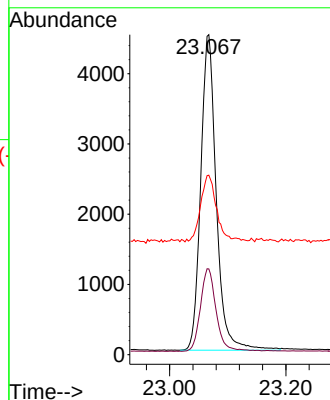
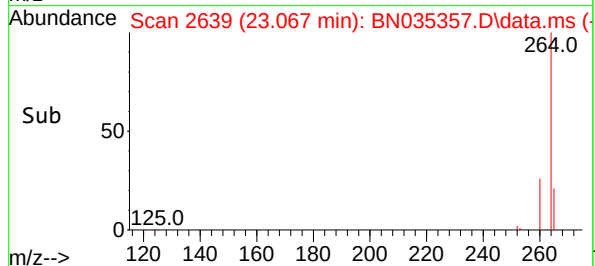
Tgt Ion:264 Resp: 8338
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 56.1 40.2 60.4

Manual Integrations

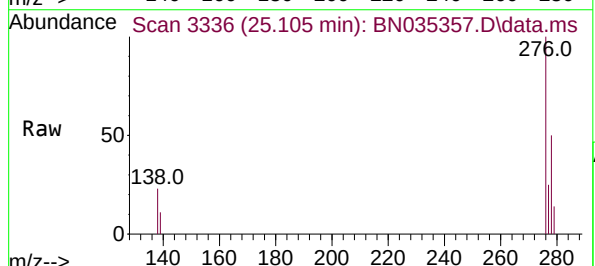
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

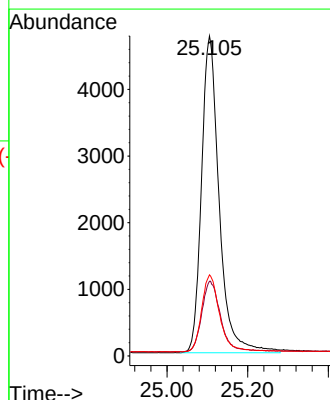
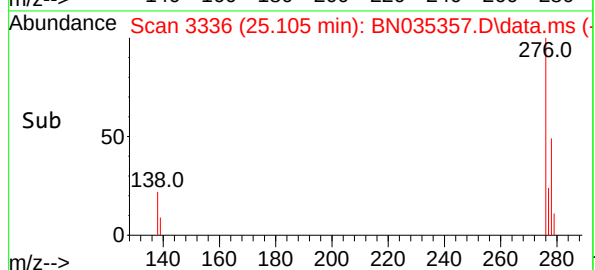
Supervised By :mohammad ahmed 12/03/2024

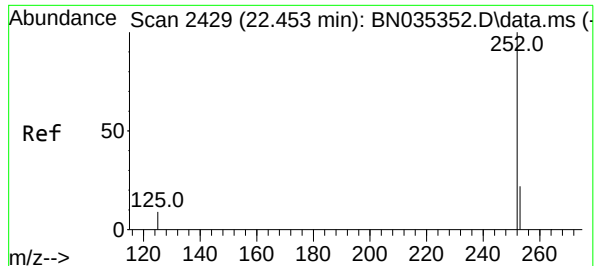


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



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# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

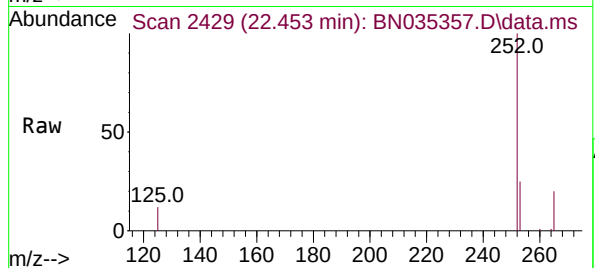
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

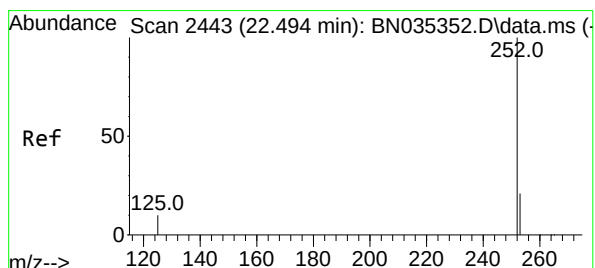
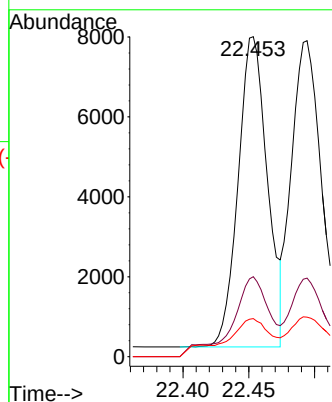
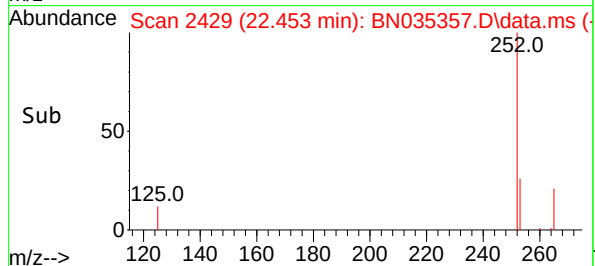


Tgt Ion:	252	Resp:	1298
Ion Ratio	Lower	Upper	
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

Manual Integrations

APPROVED

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



#38

Benzo(k)fluoranthene

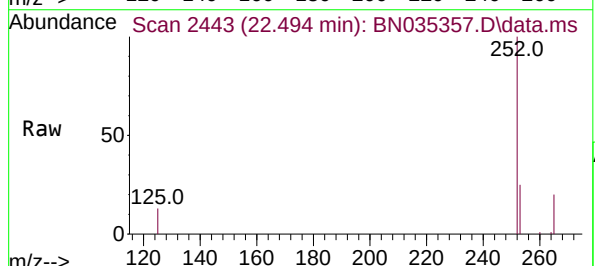
Concen: 0.422 ng

RT: 22.494 min Scan# 2443

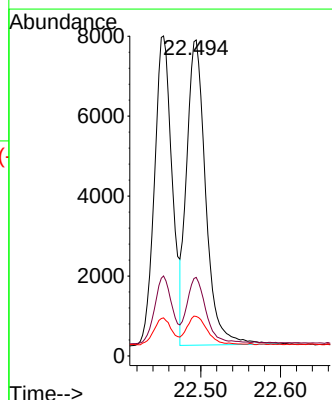
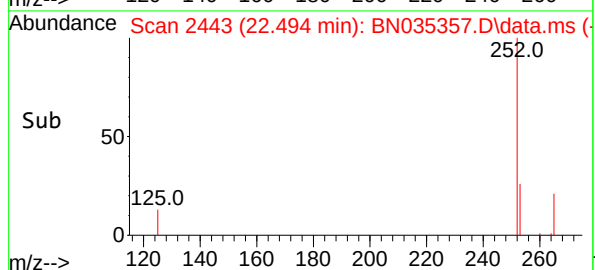
Delta R.T. -0.000 min

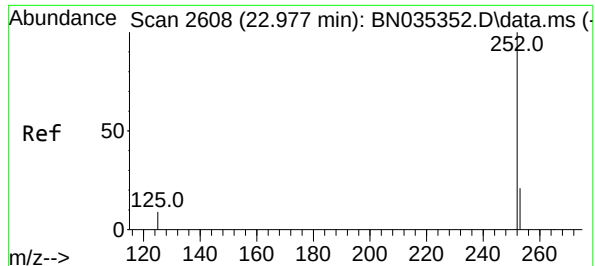
Lab File: BN035357.D

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# 2607

Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

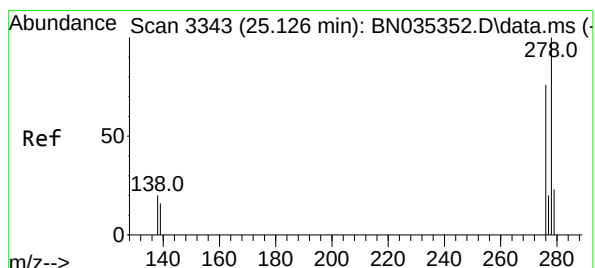
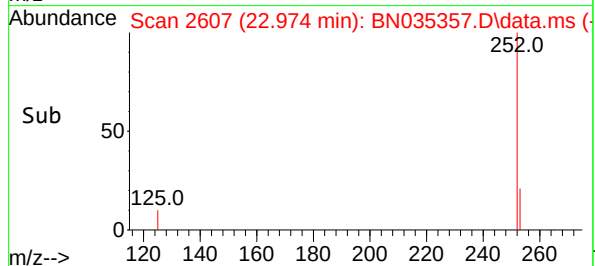
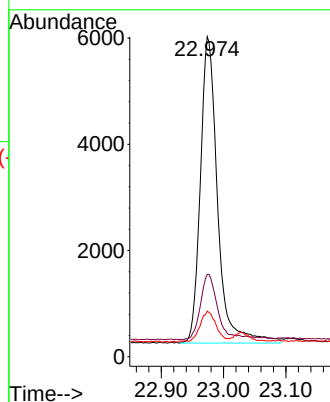
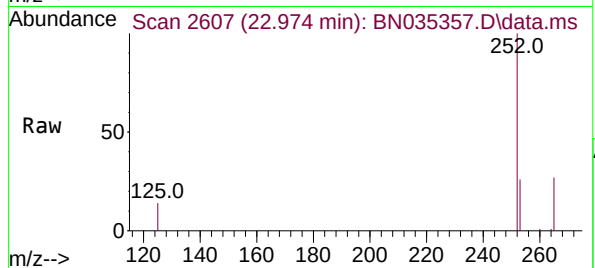
Tgt Ion:	252	Resp:	11094
Ion Ratio	Lower	Upper	
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

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

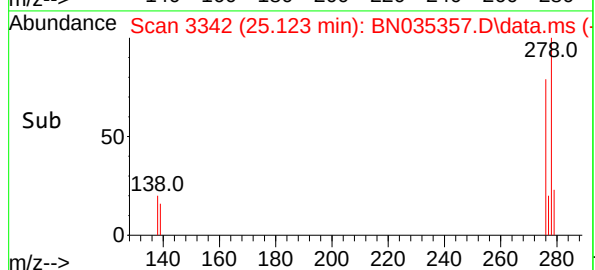
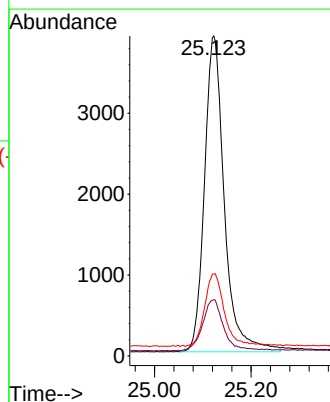
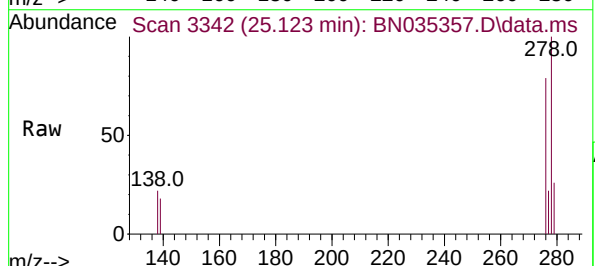
RT: 25.123 min Scan# 3342

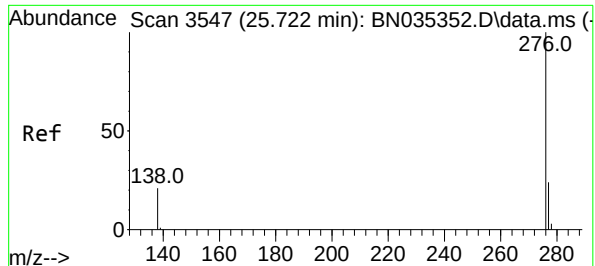
Delta R.T. -0.003 min

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

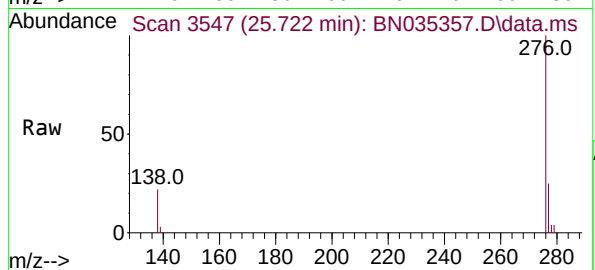
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

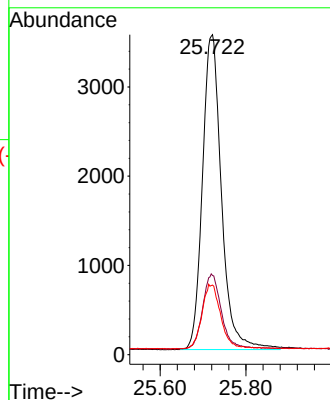
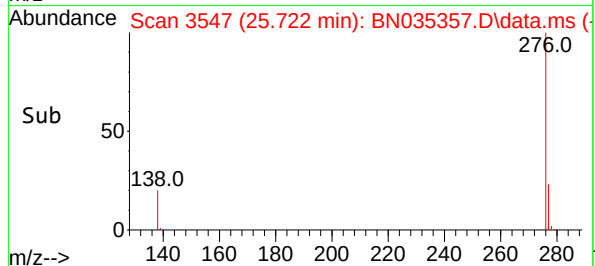
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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

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



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.: P5376 SAS No.: P5376 SDG No.: P5376

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
 APPROVED

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

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	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

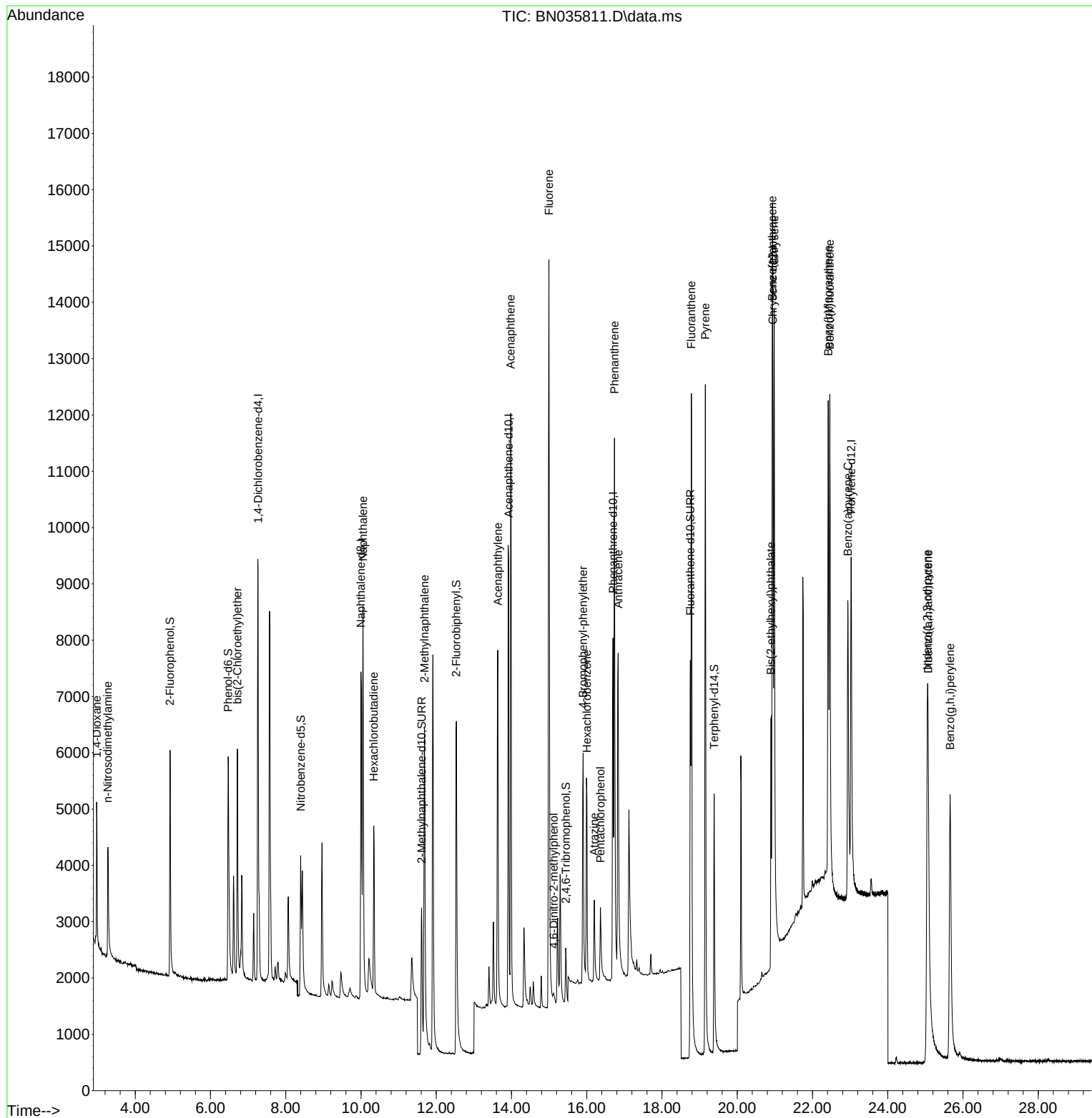
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Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

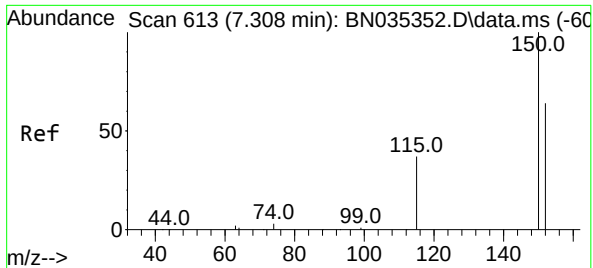
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ClientSampleId :
SSTDCCC0.4

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

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





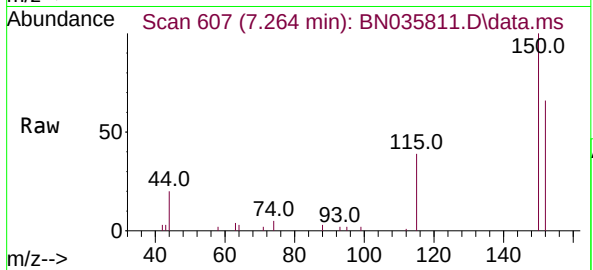
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1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

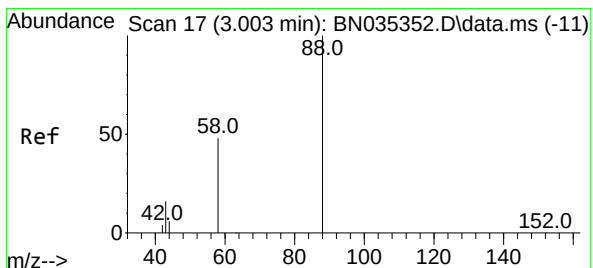
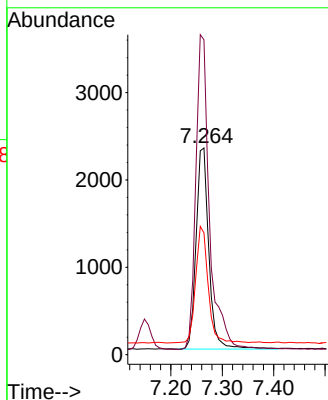
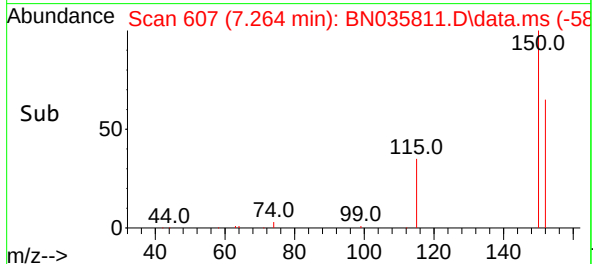


Tgt Ion:152 Resp: 3972
Ion Ratio Lower Upper
152 100
150 152.3 124.0 186.0
115 58.9 49.6 74.4

Manual Integrations

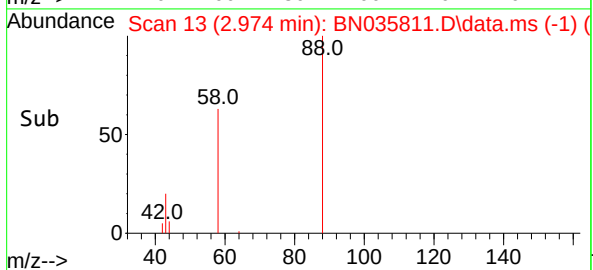
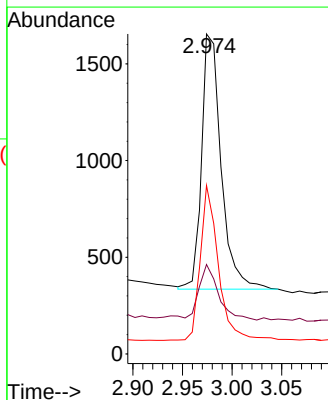
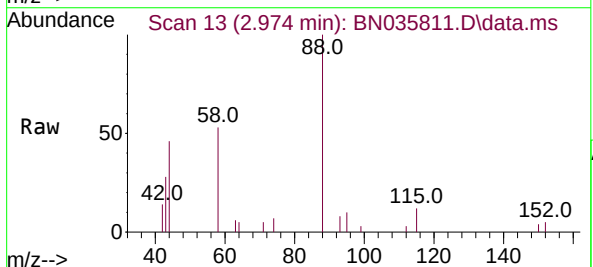
APPROVED

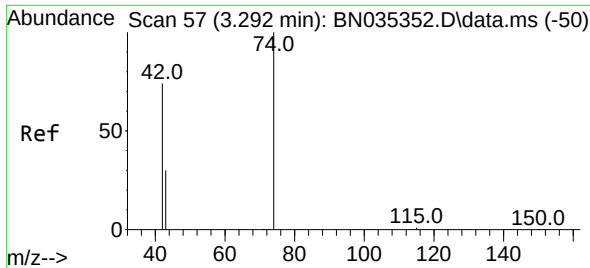
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

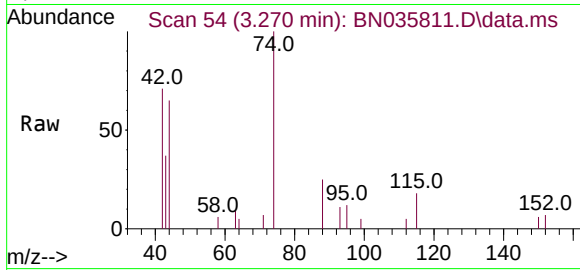
Tgt Ion: 88 Resp: 1814
Ion Ratio Lower Upper
88 100
43 23.2 17.2 25.8
58 56.2 44.5 66.7





#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

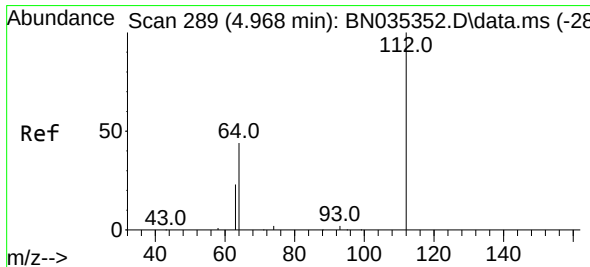
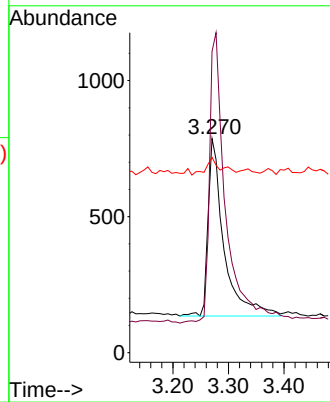
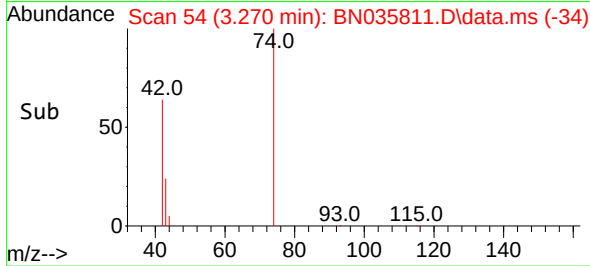
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

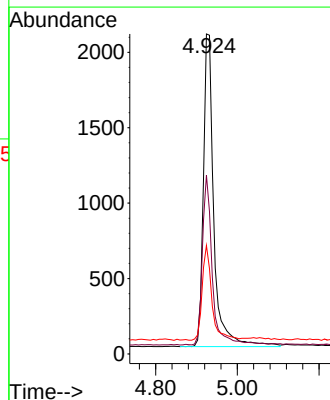
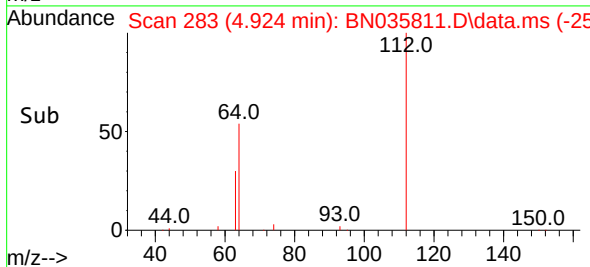
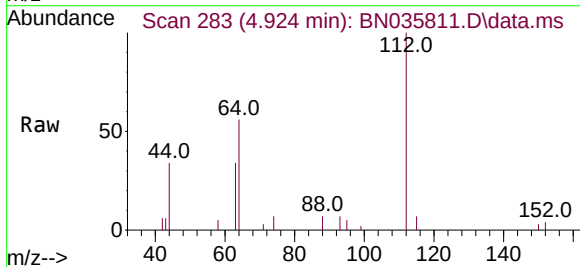
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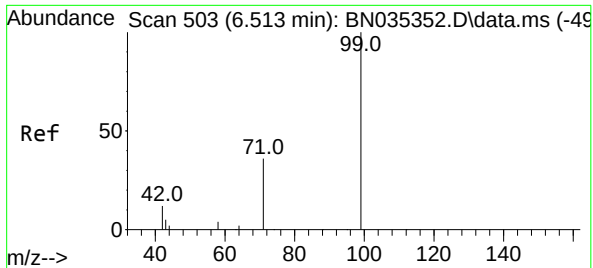
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





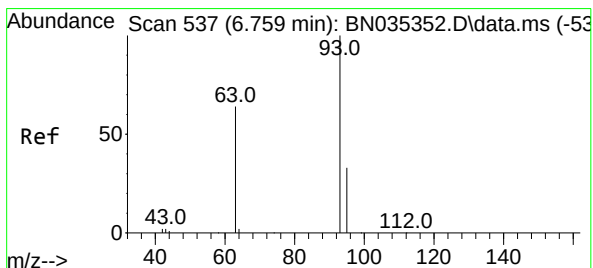
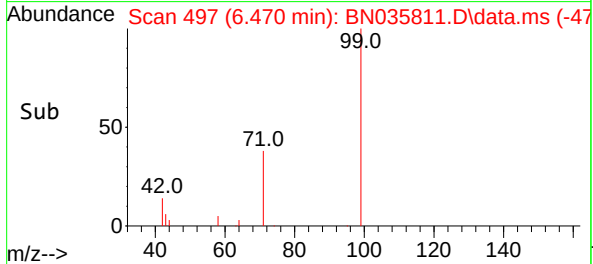
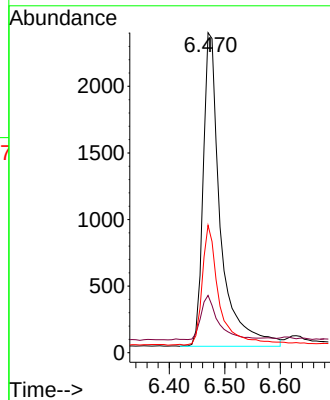
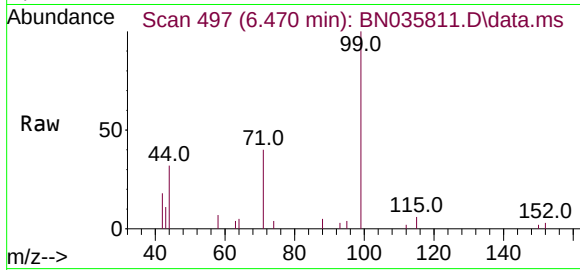
#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

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

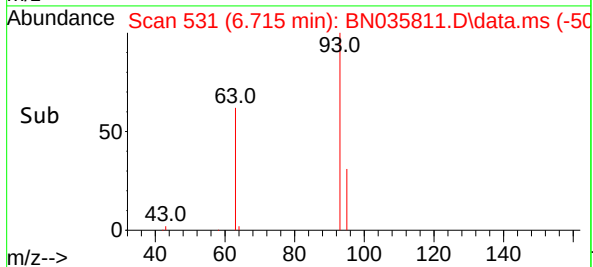
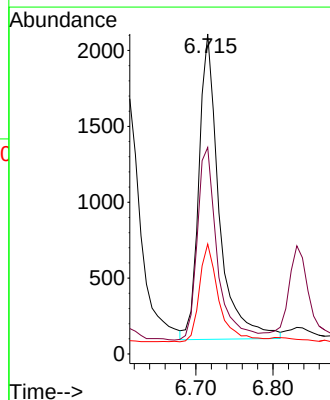
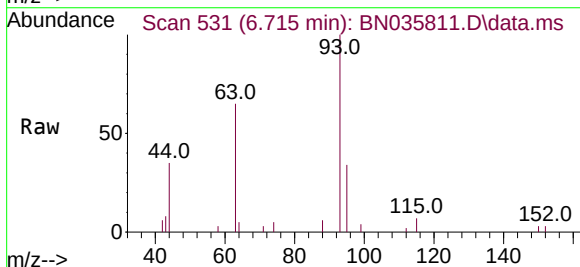
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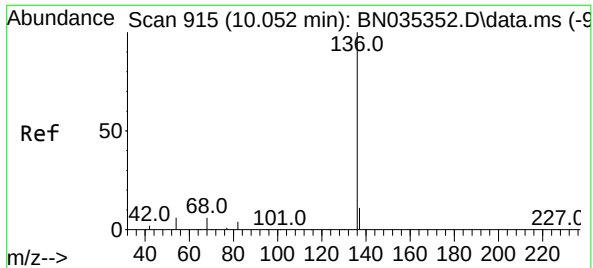
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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# 915
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

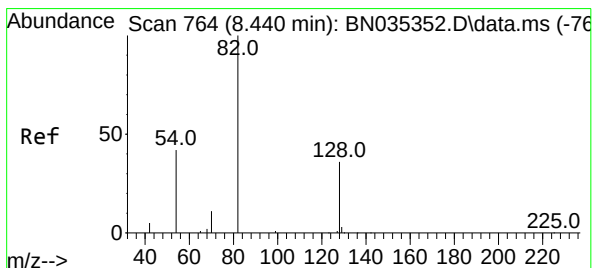
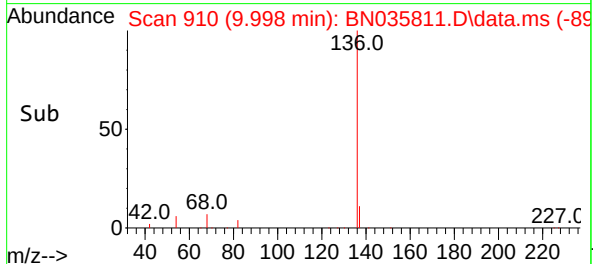
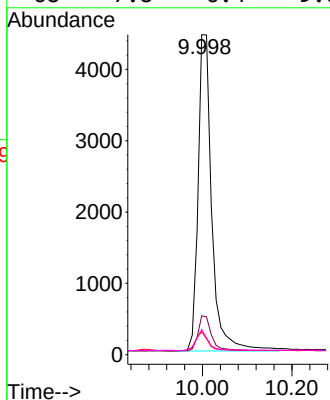
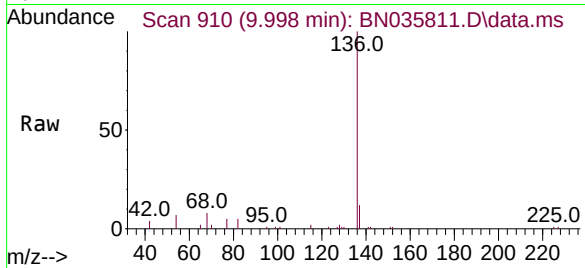
SSTDCCC0.4

Tgt Ion:136 Resp: 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

Manual Integrations

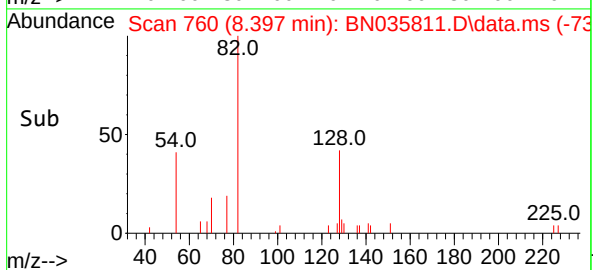
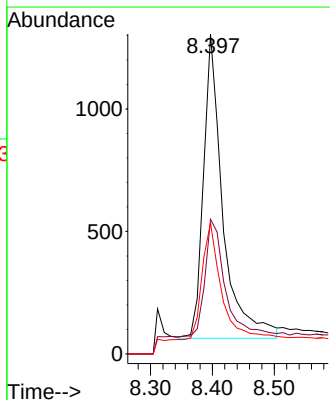
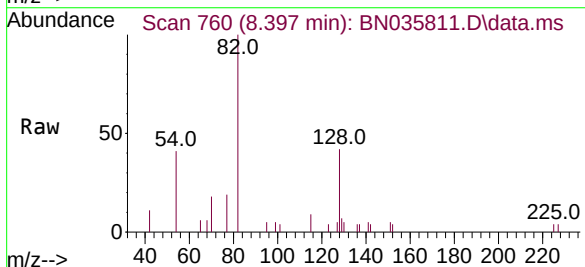
APPROVED

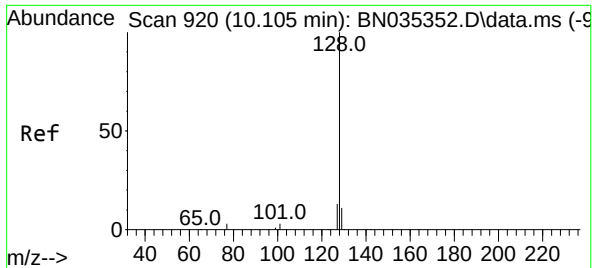
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

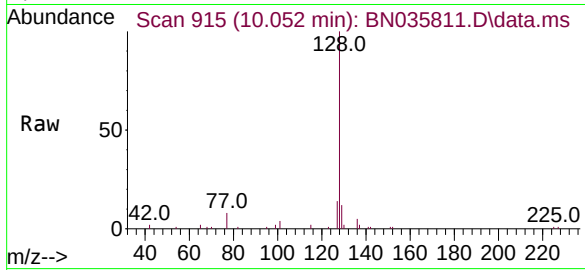
Tgt Ion: 82 Resp: 2707
Ion Ratio Lower Upper
82 100
128 42.1 33.4 50.0
54 41.0 36.7 55.1





#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

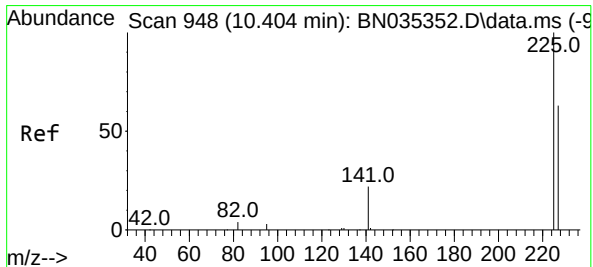
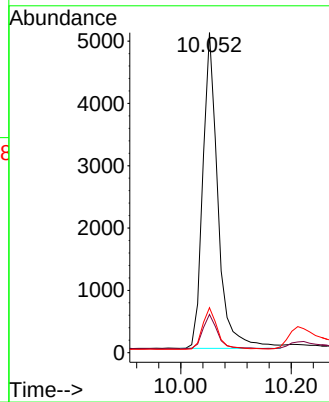
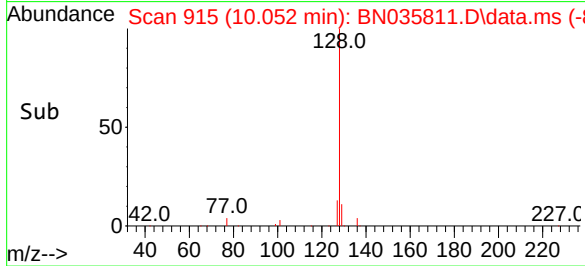
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 967
Ion Ratio Lower Upper
128 100
129 11.9 9.8 14.6
127 14.1 11.4 17.2

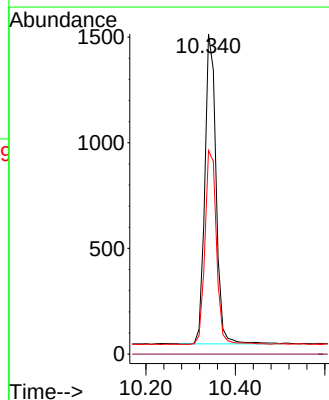
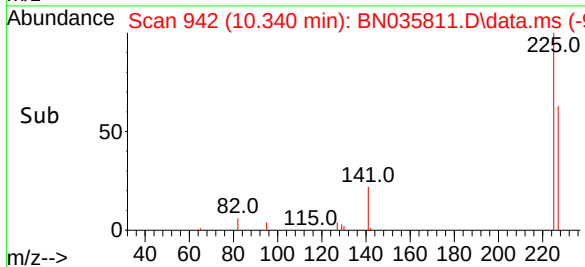
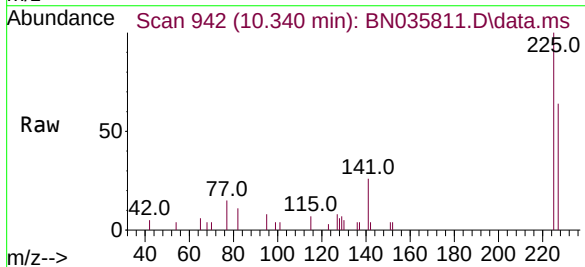
Manual Integrations
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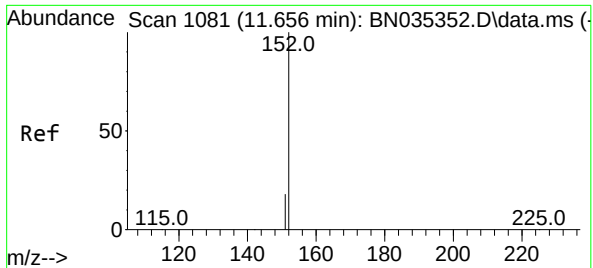
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

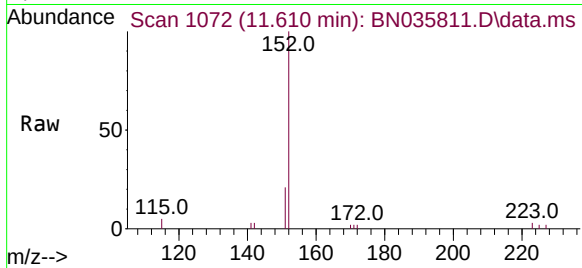
Tgt Ion:225 Resp: 2548
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1080
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

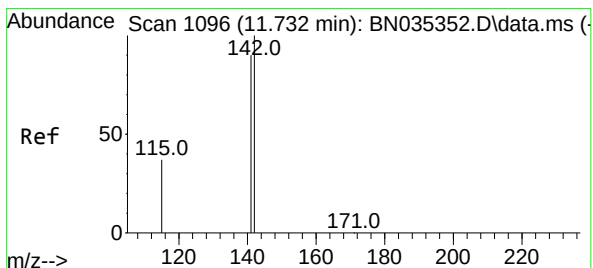
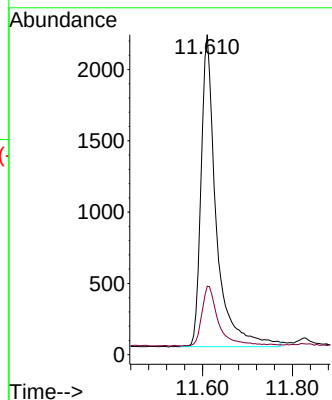
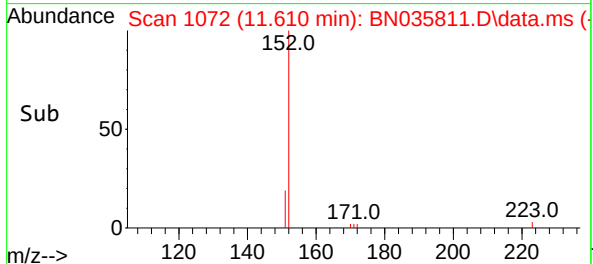
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 5128
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0

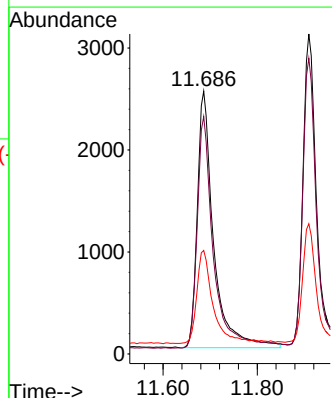
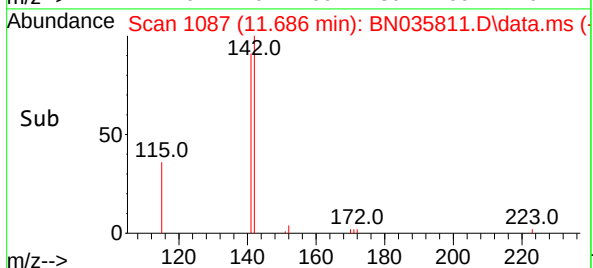
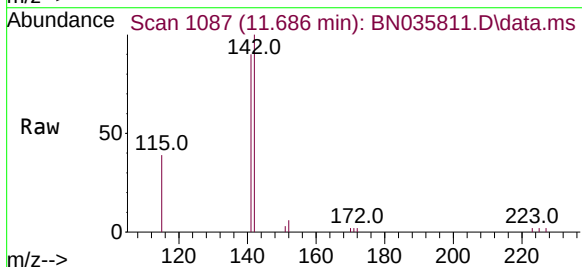
Manual Integrations
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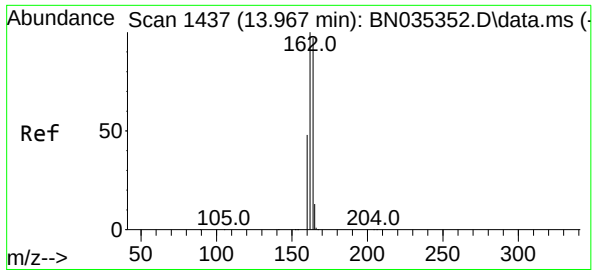
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

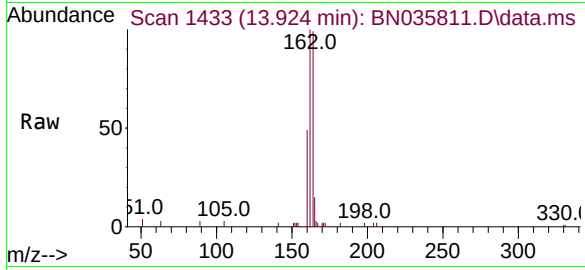
Tgt Ion:142 Resp: 6060
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

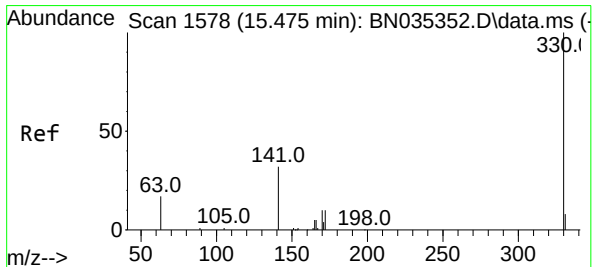
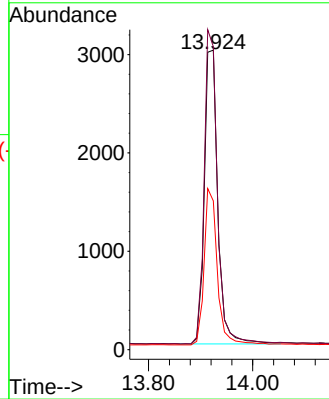
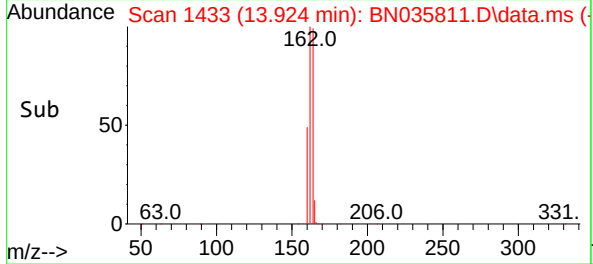
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 538
Ion Ratio Lower Upper
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162 101.1 82.2 123.2
160 49.7 40.1 60.1

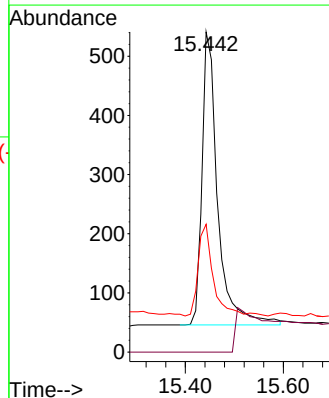
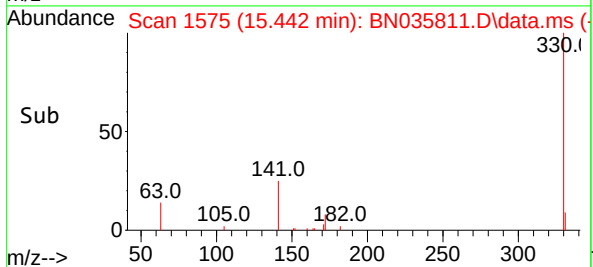
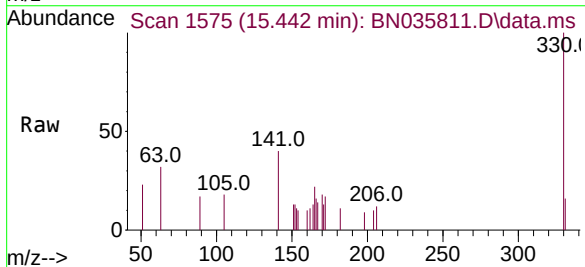
Manual Integrations
APPROVED

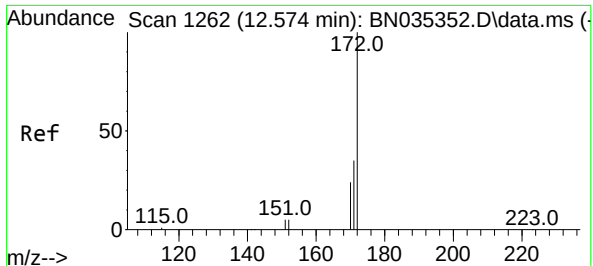
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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# 11
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

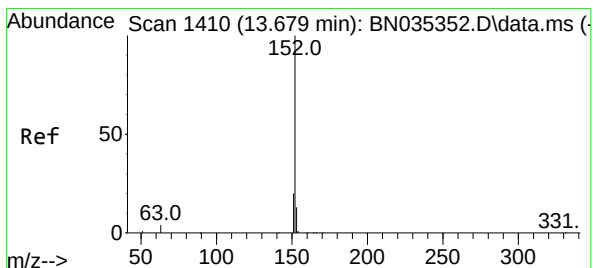
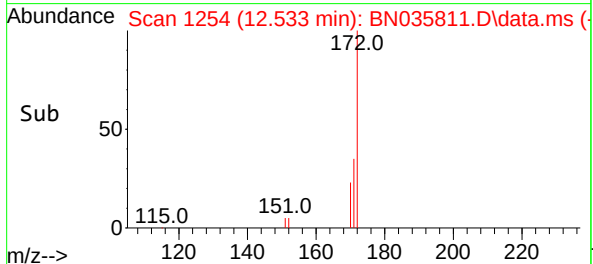
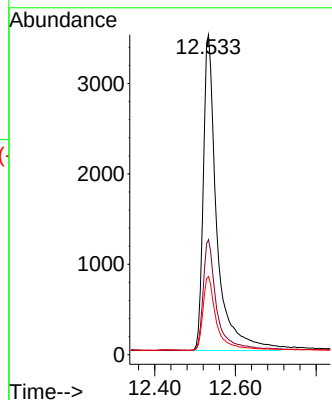
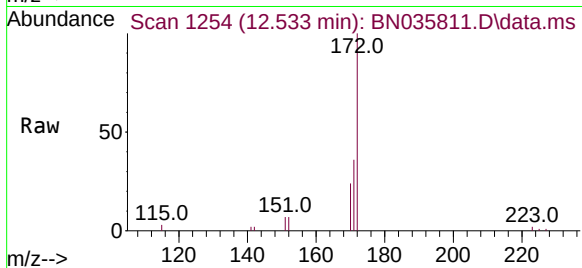
SSTDCCC0.4

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

Manual Integrations

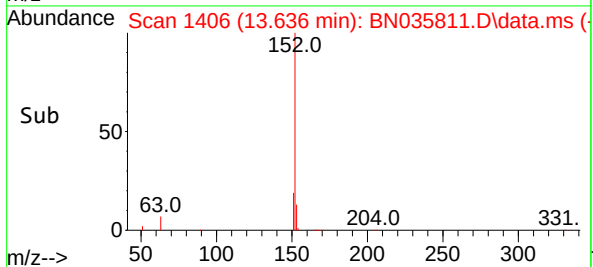
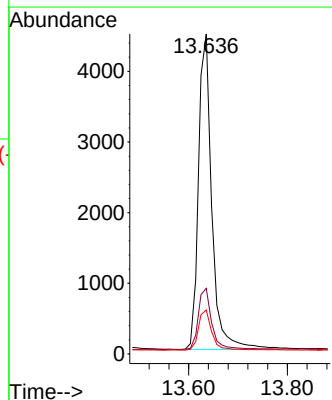
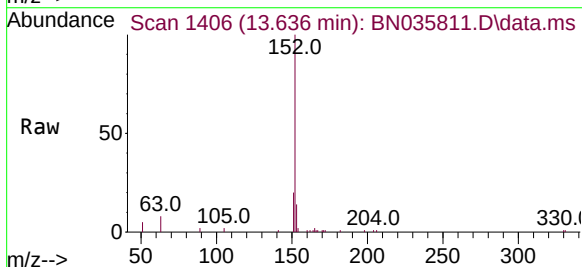
APPROVED

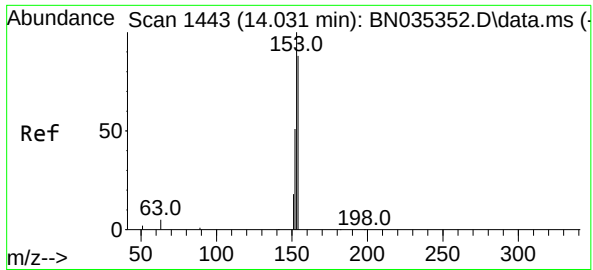
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

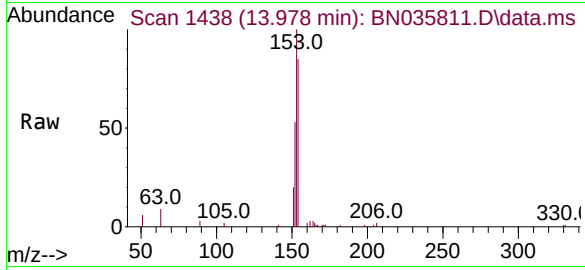
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6





#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

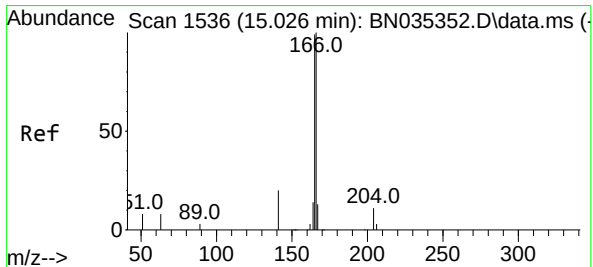
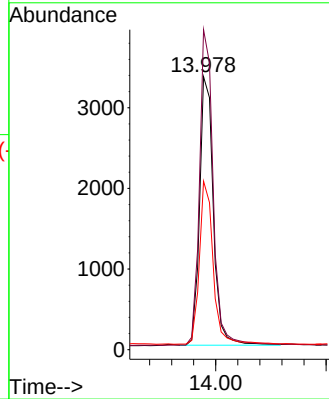
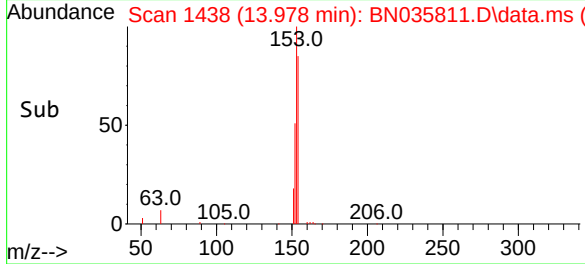
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 578
Ion Ratio Lower Upper
154 100
153 117.6 92.6 139.0
152 60.7 49.0 73.6

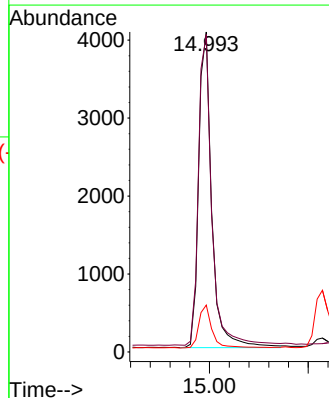
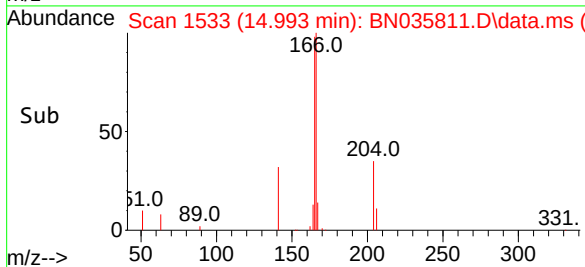
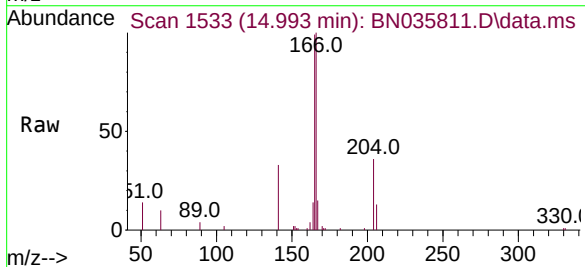
Manual Integrations
APPROVED

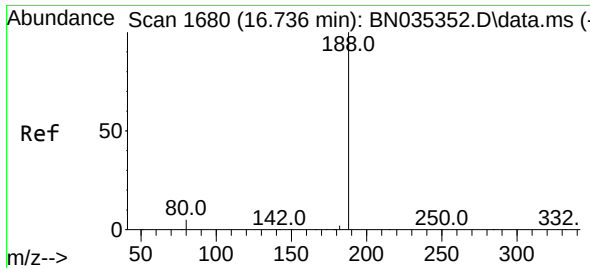
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





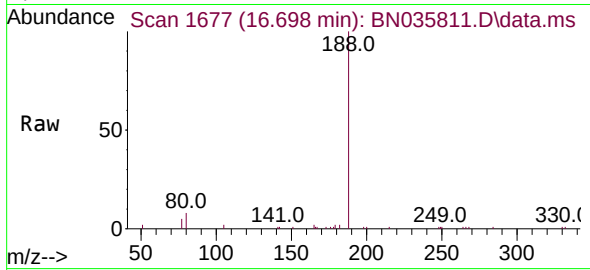
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



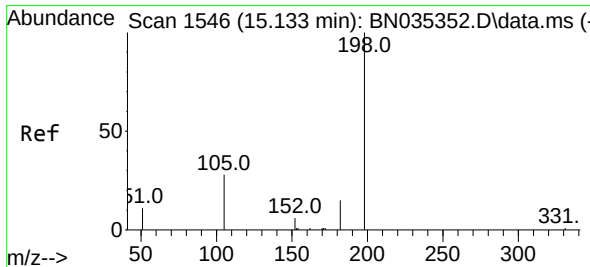
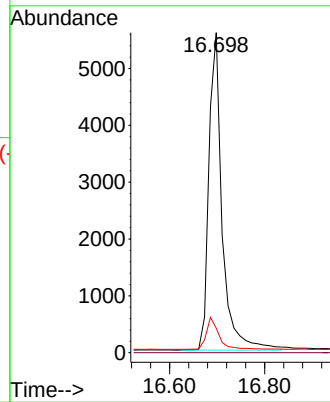
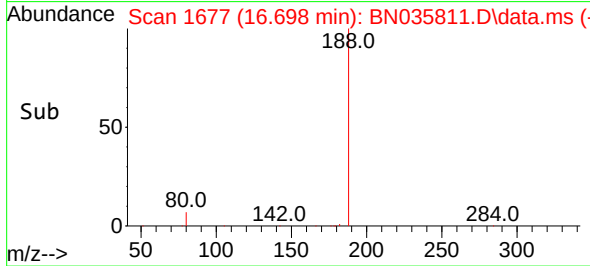
Tgt Ion:188 Resp: 1085
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.7 4.6 6.8

Manual Integrations

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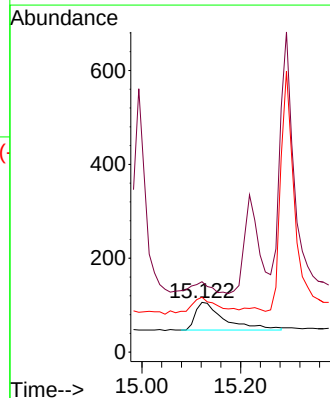
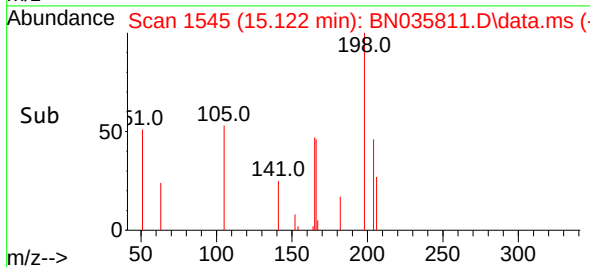
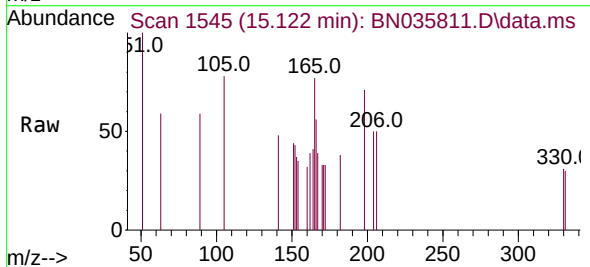
Reviewed By :Yogesh Patel 12/25/2024

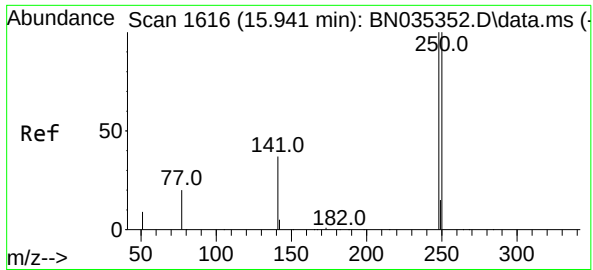
Supervised By :mohammad ahmed 12/26/2024



#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

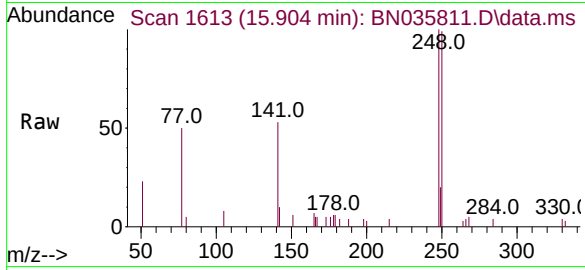
Tgt Ion:198 Resp: 244
Ion Ratio Lower Upper
198 100
51 141.5 46.5 69.7#
105 110.4 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

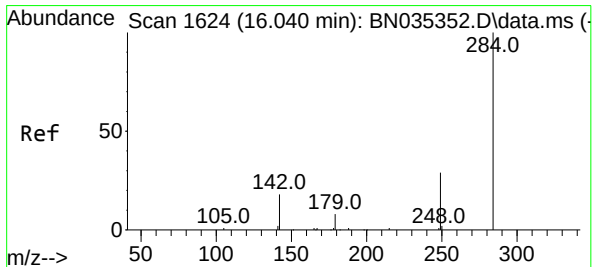
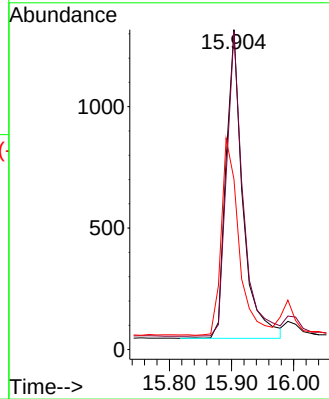
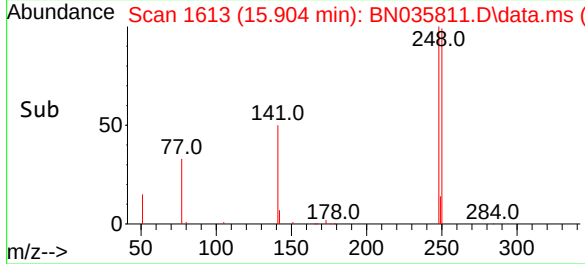
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

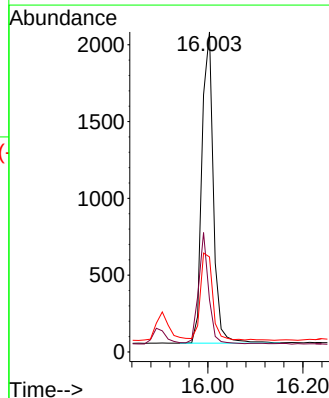
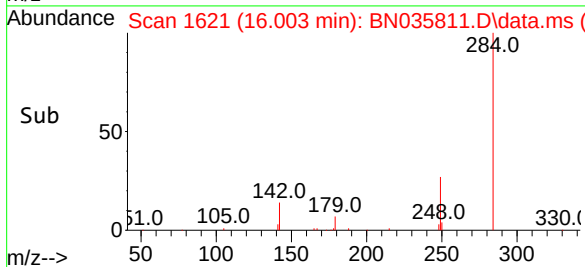
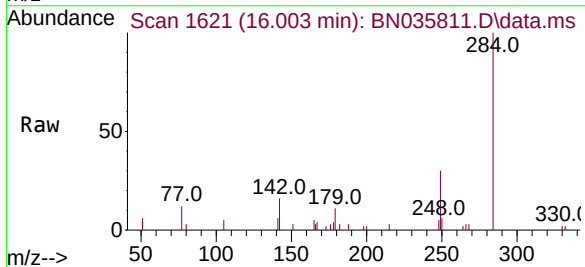
Manual Integrations
APPROVED

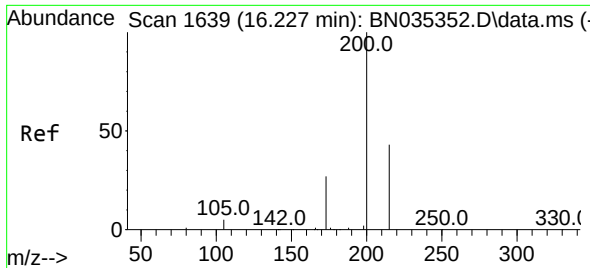
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





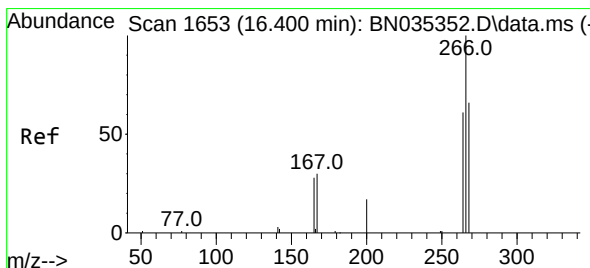
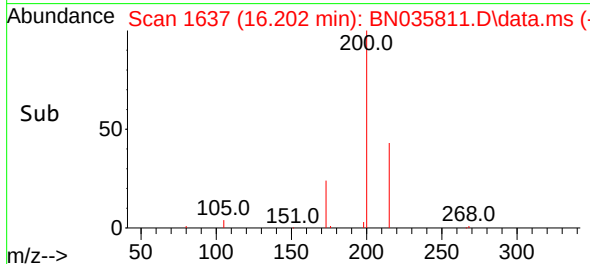
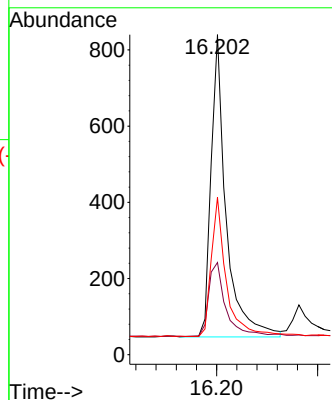
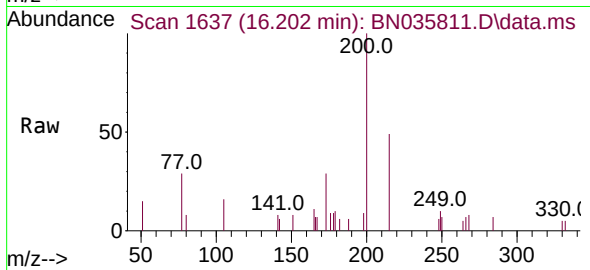
#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

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

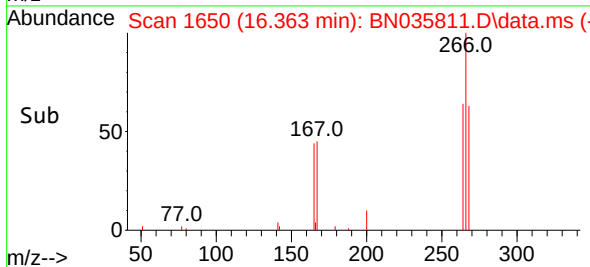
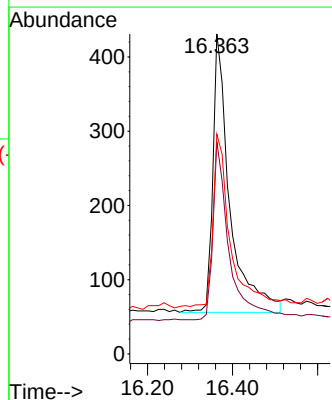
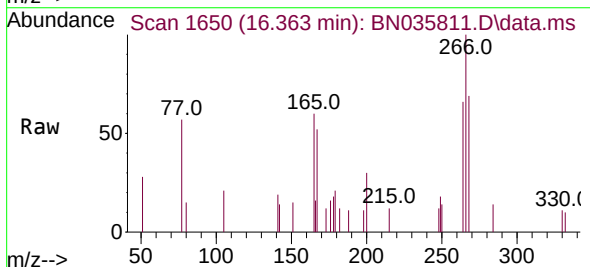
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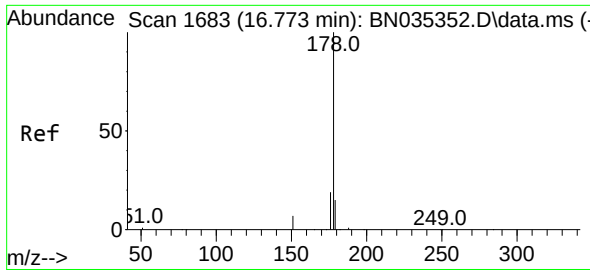
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

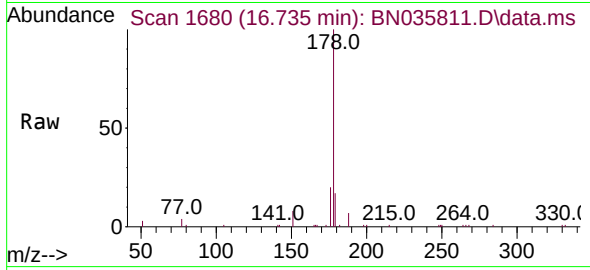
Tgt Ion:266 Resp: 1040
Ion Ratio Lower Upper
266 100
264 61.4 42.3 63.5
268 64.5 43.3 64.9





#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

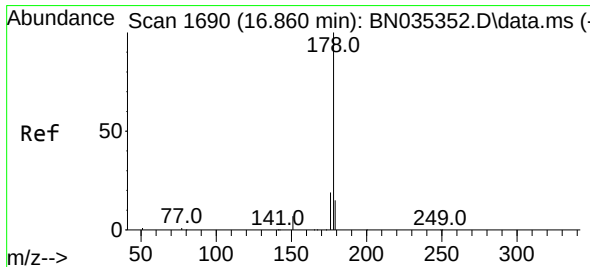
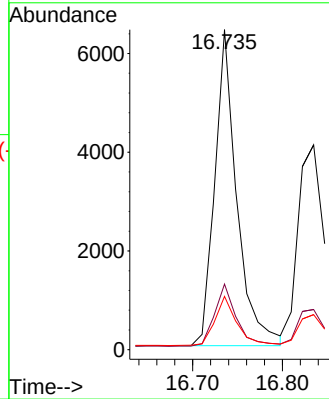
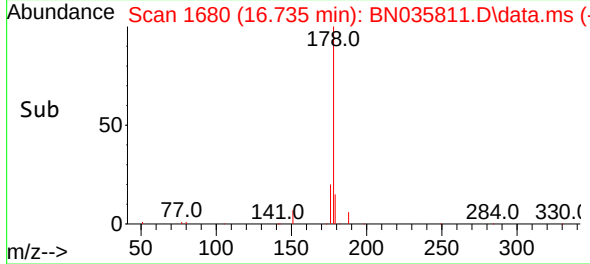
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

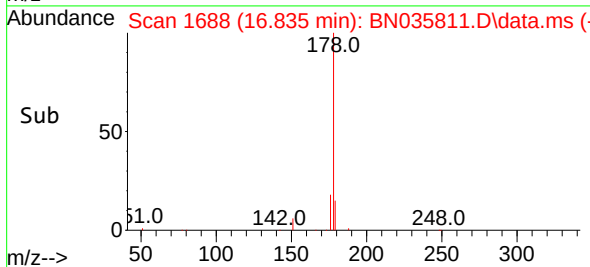
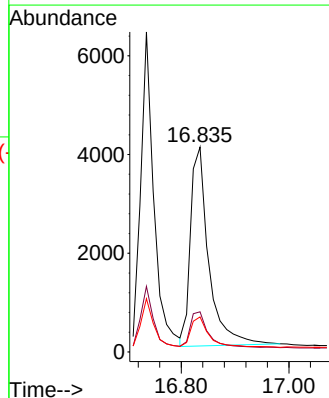
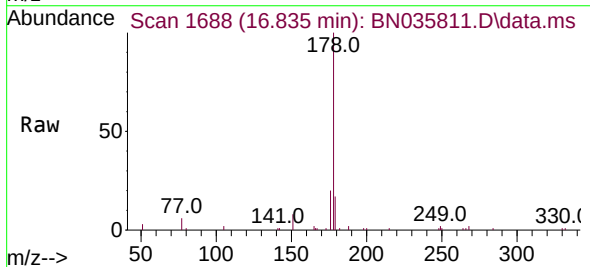
Manual Integrations
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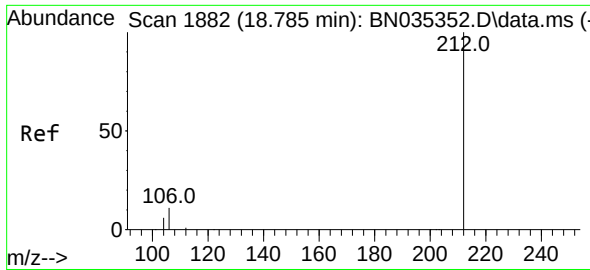
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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# 1880

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

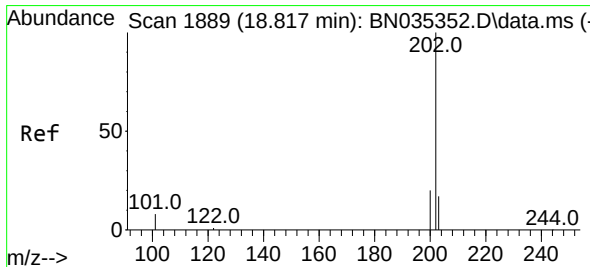
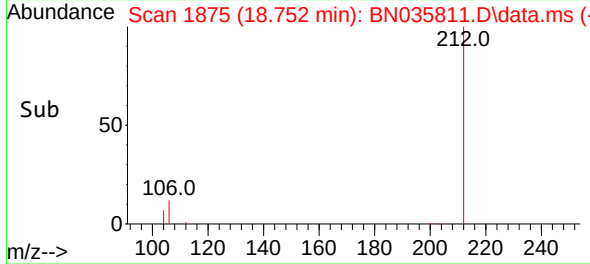
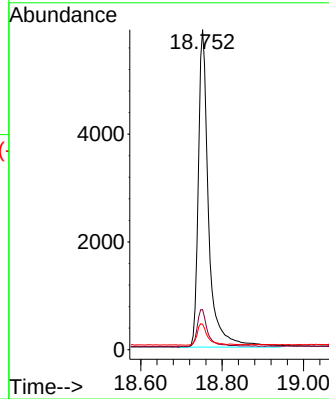
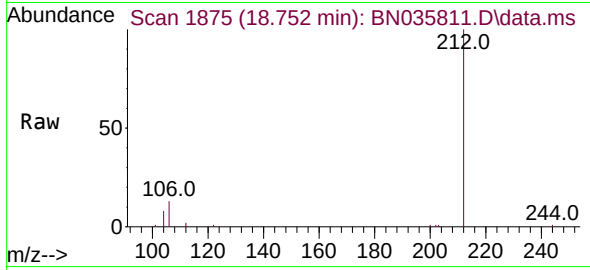
104 6.8 5.3 7.9

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

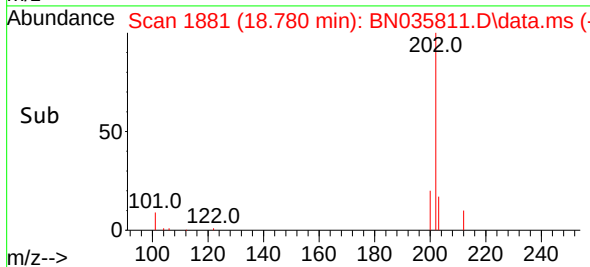
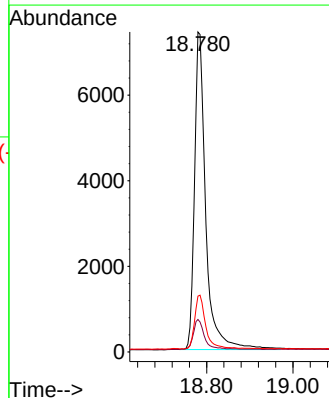
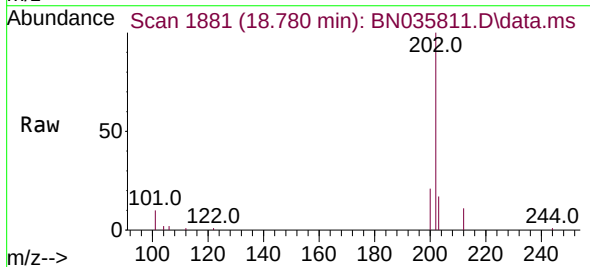
Tgt Ion:202 Resp: 13421

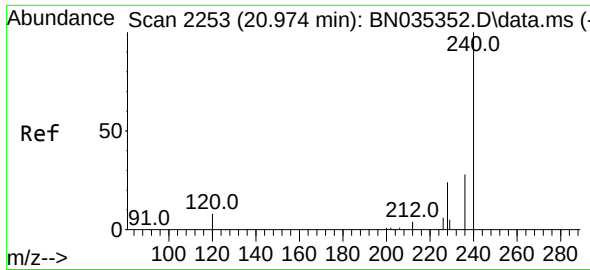
Ion Ratio Lower Upper

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# 21

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

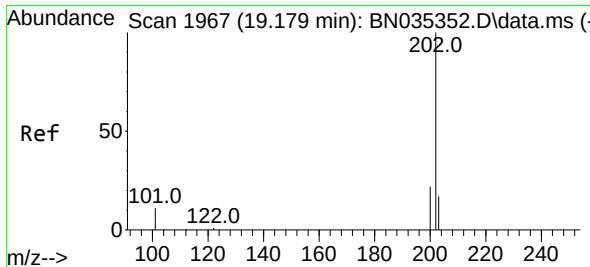
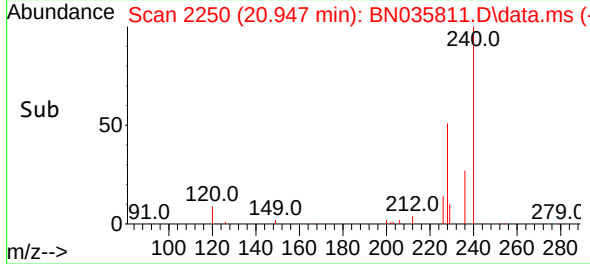
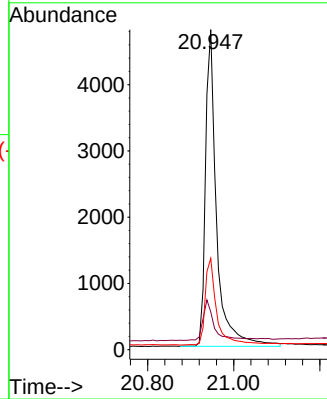
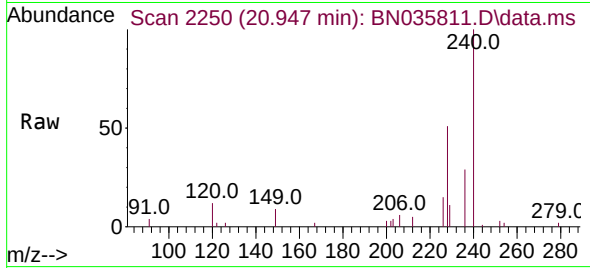
236 28.6 22.9 34.3

Manual Integrations

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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

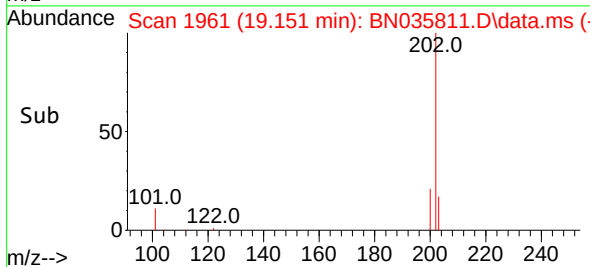
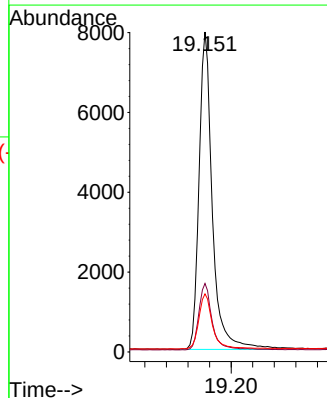
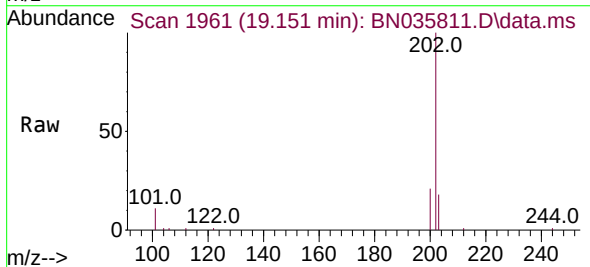
Tgt Ion:202 Resp: 13577

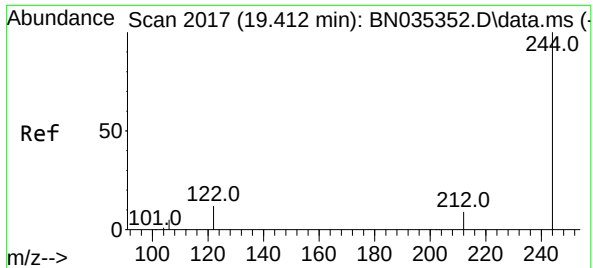
Ion Ratio Lower Upper

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# 2011
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

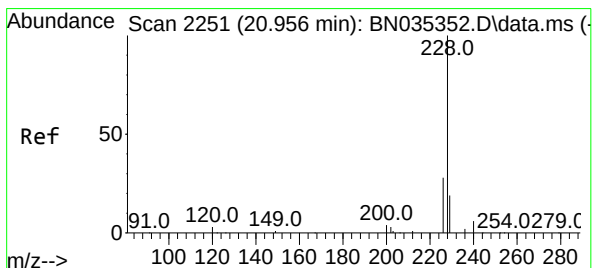
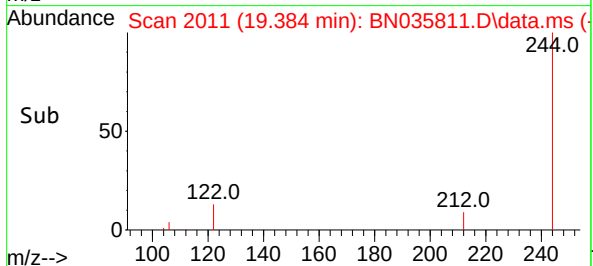
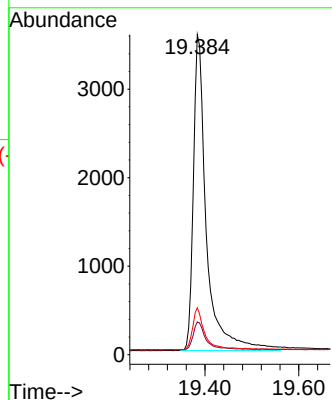
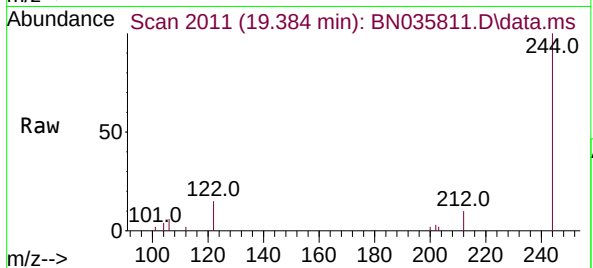
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5

Manual Integrations

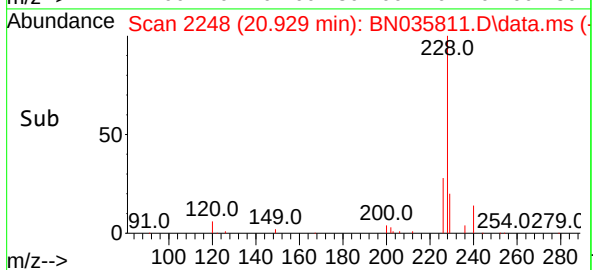
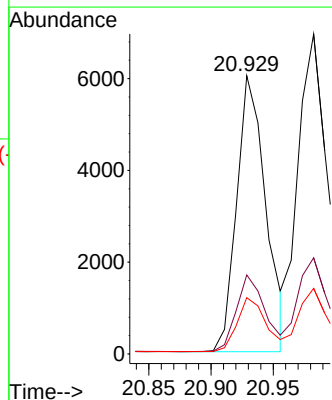
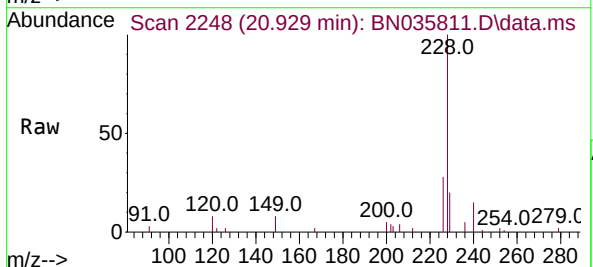
APPROVED

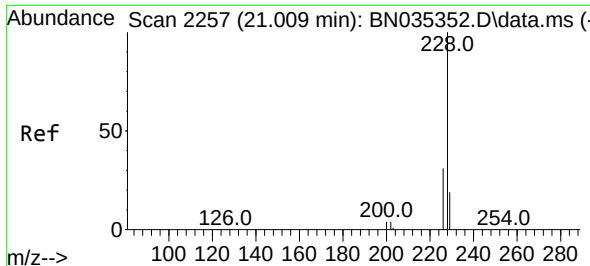
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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	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# 2100
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

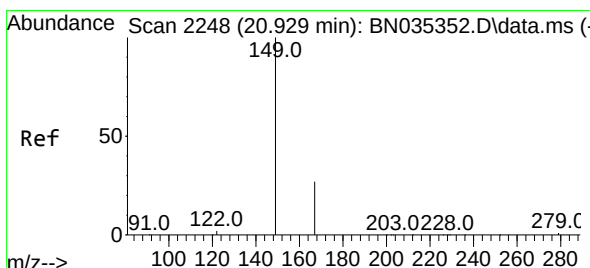
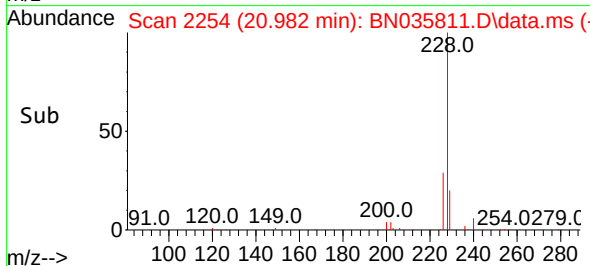
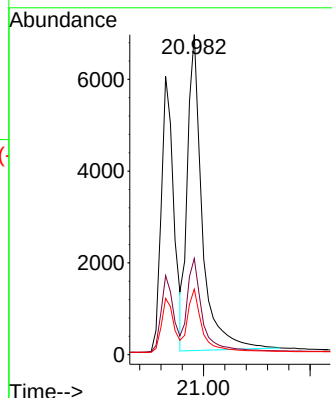
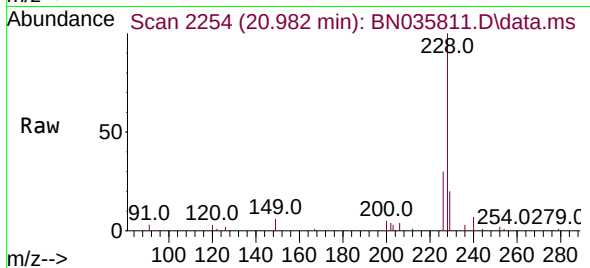
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9

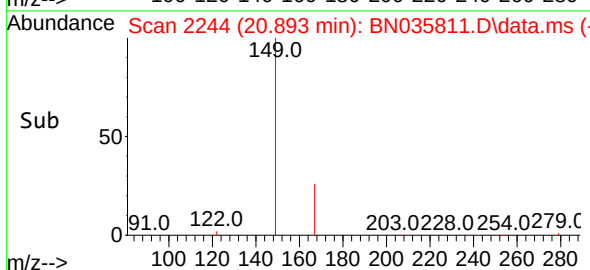
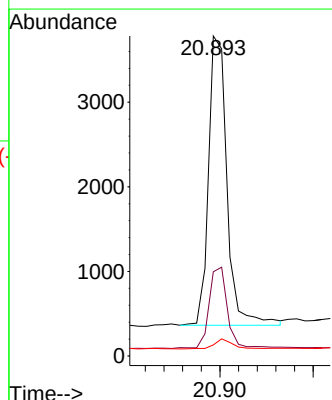
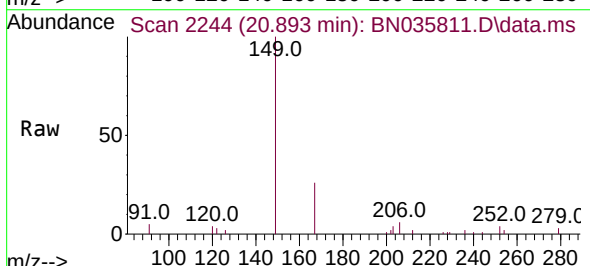
Manual Integrations
APPROVED

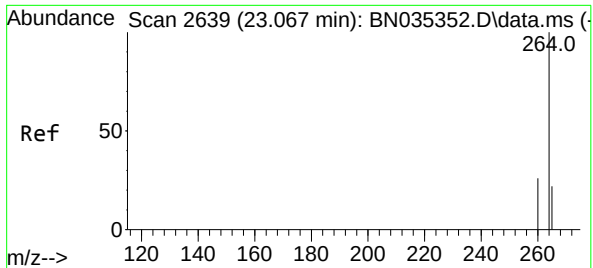
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1





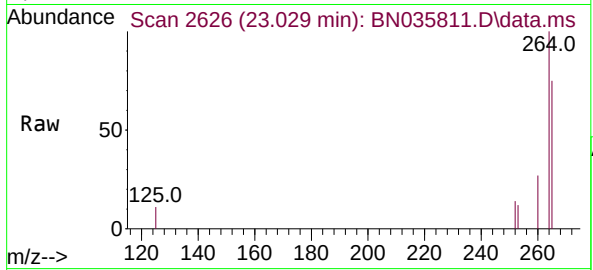
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



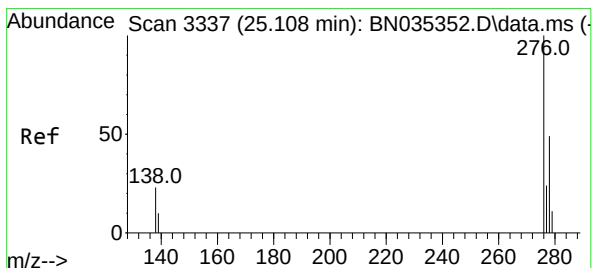
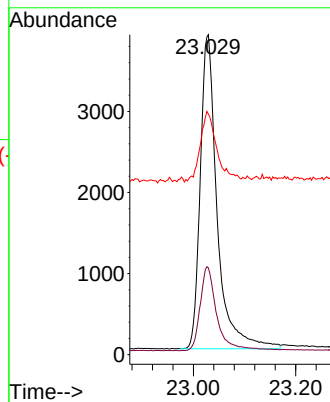
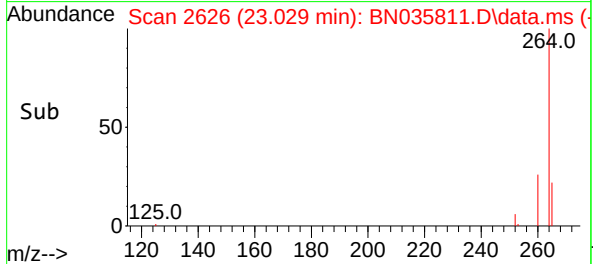
Tgt Ion:264 Resp: 8879
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 75.2 40.2 60.4

Manual Integrations

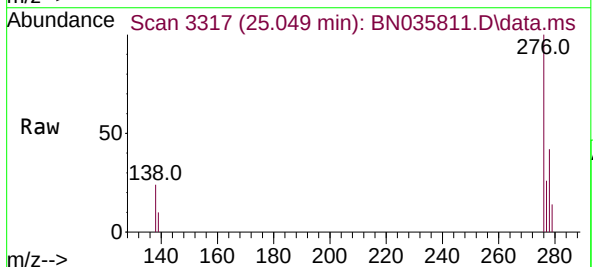
APPROVED

Reviewed By :Yogesh Patel 12/25/2024

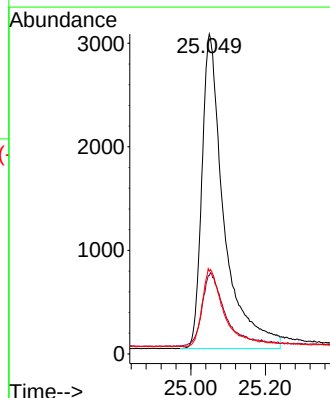
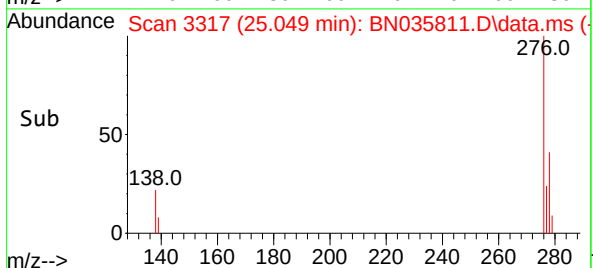
Supervised By :mohammad ahmed 12/26/2024

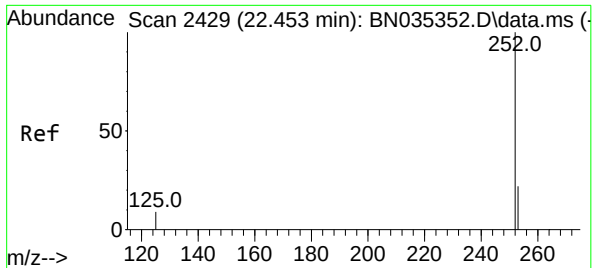


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59



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# 2417

Delta R.T. -0.012 min

Lab File: BN035811.D

Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

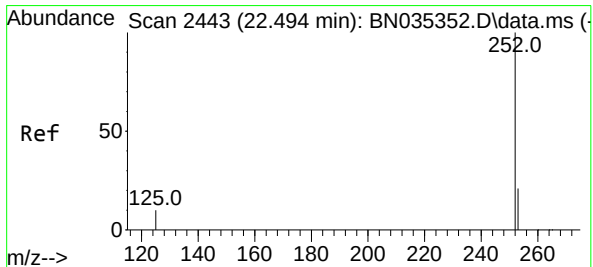
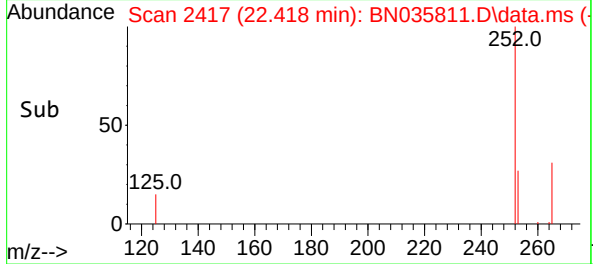
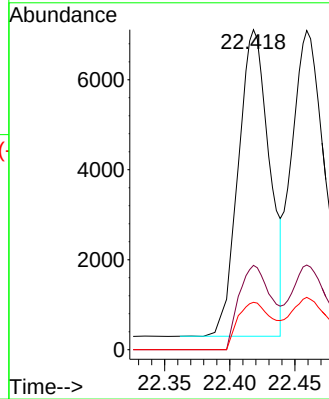
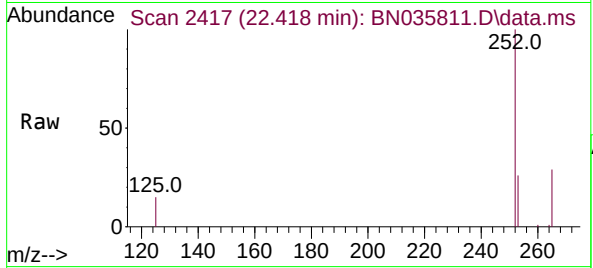
Tgt Ion:	252	Resp:	1696
Ion Ratio	Lower	Upper	
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4

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

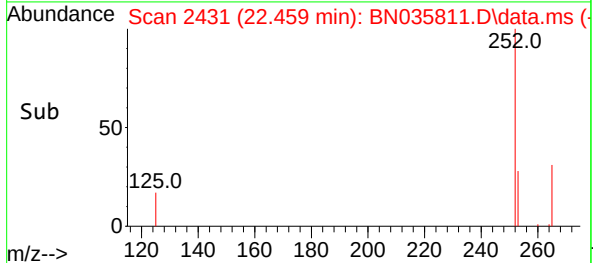
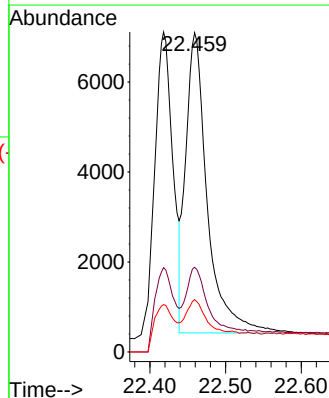
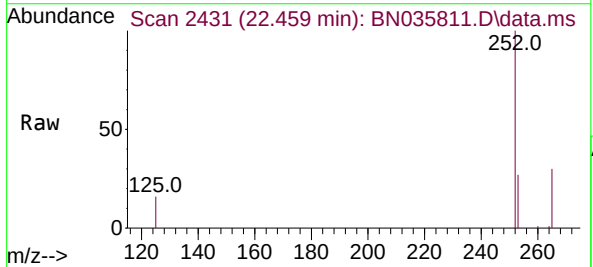
RT: 22.459 min Scan# 2431

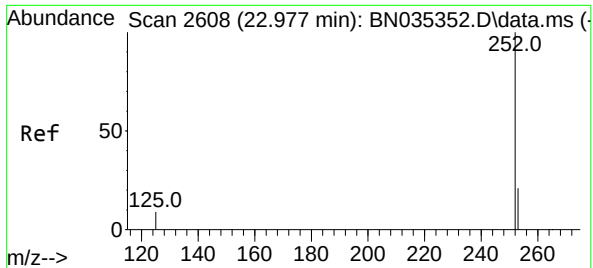
Delta R.T. -0.012 min

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# 21

Delta R.T. -0.012 min

Lab File: BN035811.D

Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

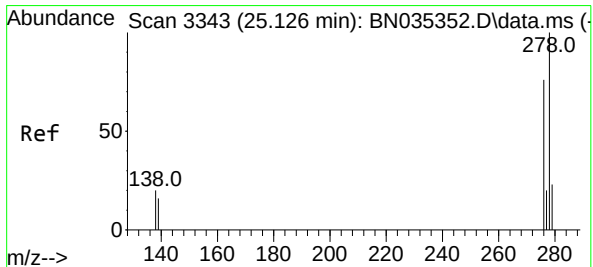
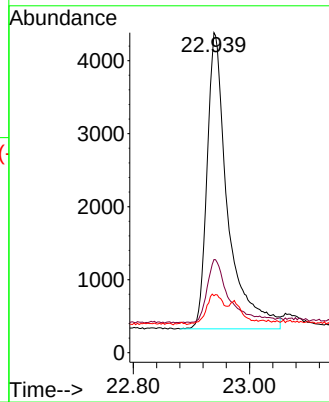
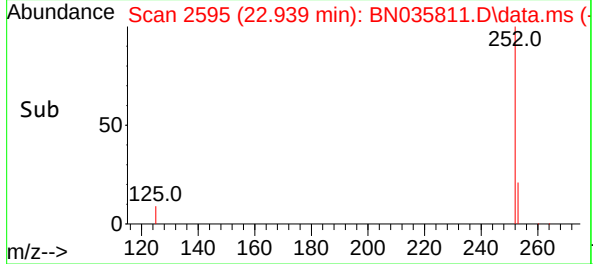
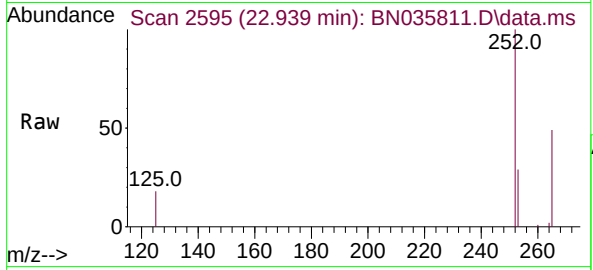
Tgt Ion:	252	Resp:	1000
Ion Ratio	Lower	Upper	
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3

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

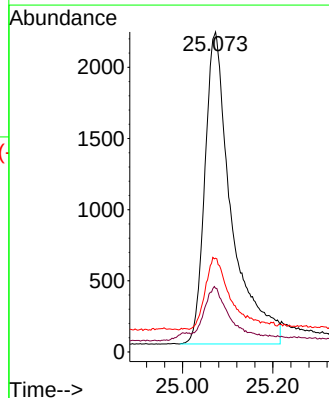
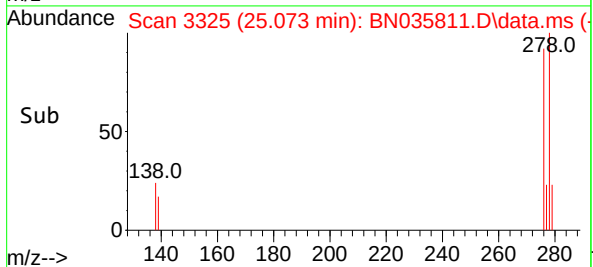
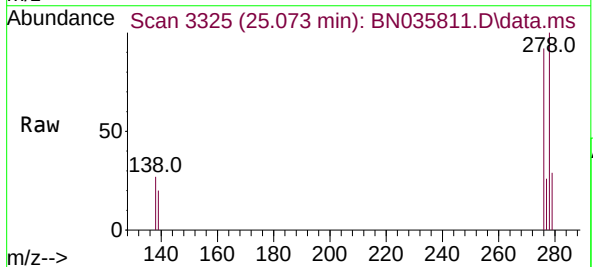
RT: 25.073 min Scan# 3325

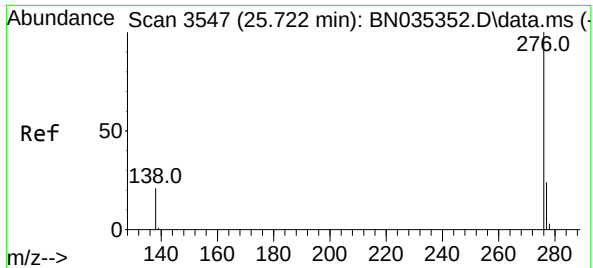
Delta R.T. -0.009 min

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# 31

Delta R.T. -0.021 min

Lab File: BN035811.D

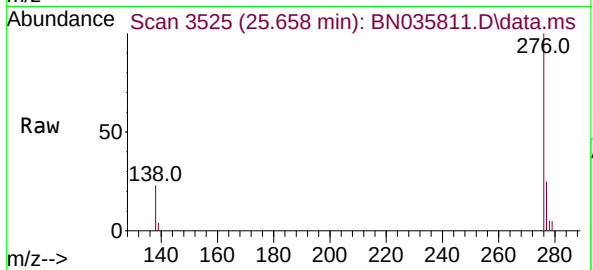
Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 11600

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

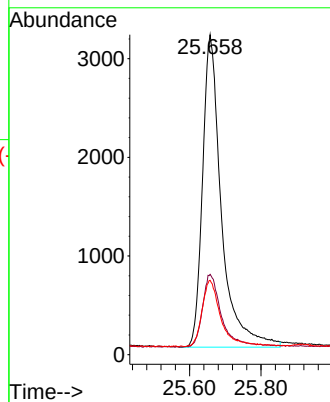
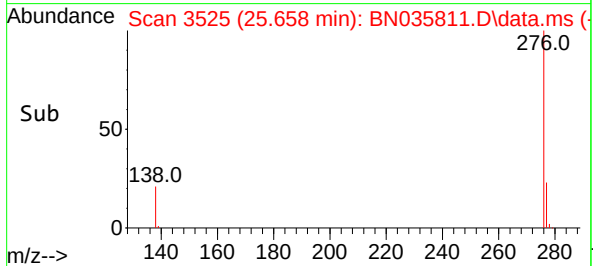
138 23.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



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

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



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.: P5376 SAS No.: P5376 SDG No.: P5376

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.

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

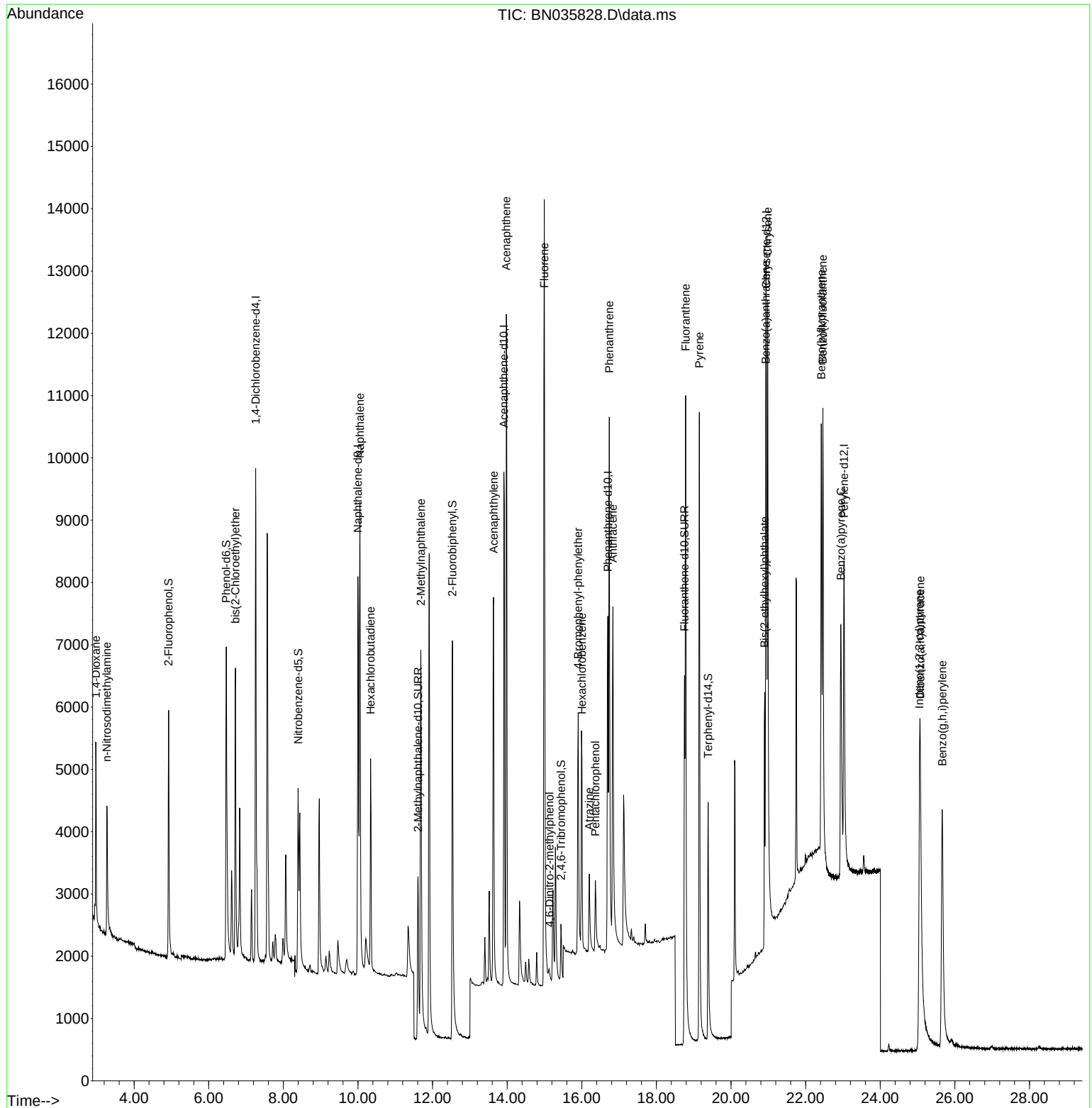
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Data File : BN035828.D  
Acq On    : 24 Dec 2024   19:05  
Operator  : RC/JU  
Sample    : SSTDCCC0.4  
Misc      :  
ALS Vial  : 20    Sample Multiplier: 1
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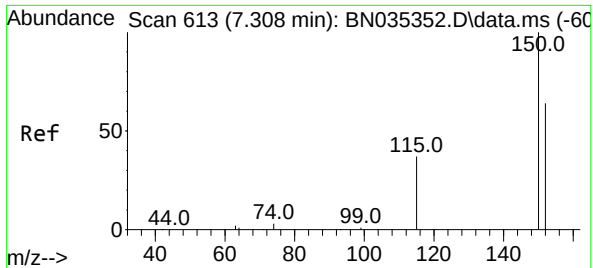
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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





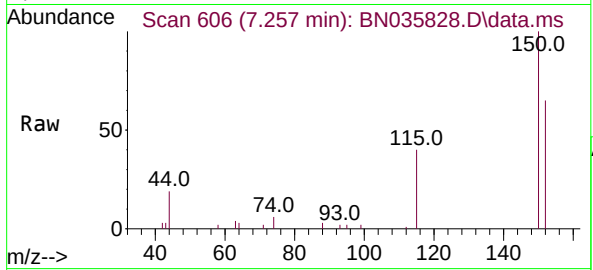
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1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 606
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

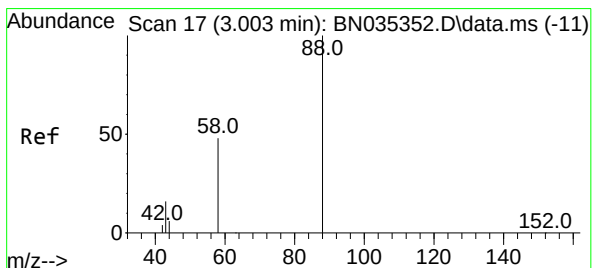
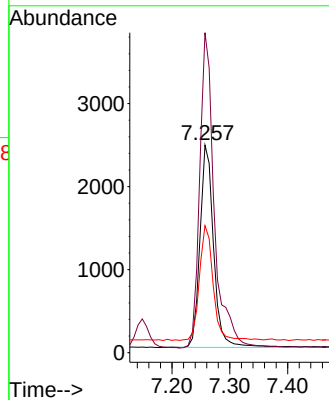
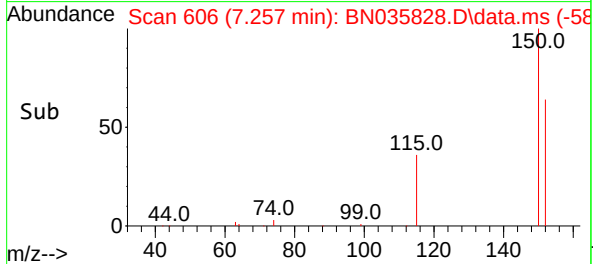


Tgt Ion:152 Resp: 4008
Ion Ratio Lower Upper
152 100
150 154.2 124.0 186.0
115 61.2 49.6 74.4

Manual Integrations

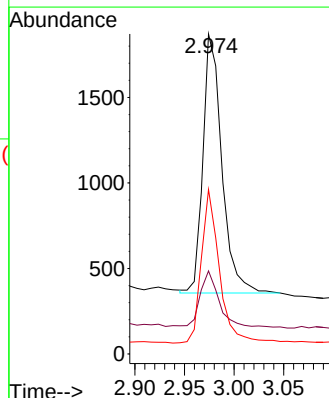
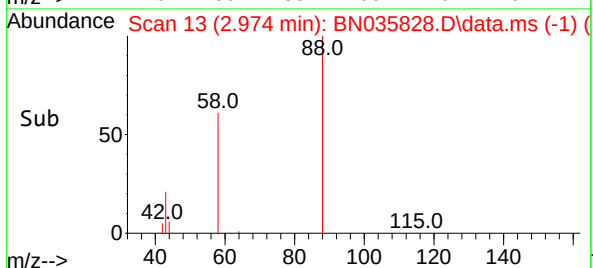
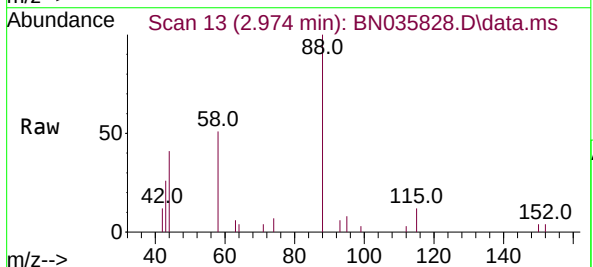
APPROVED

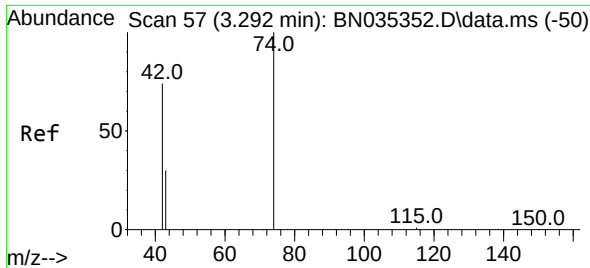
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

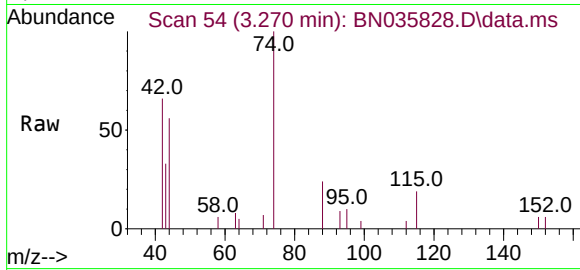
Tgt Ion: 88 Resp: 2007
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 56.9 44.5 66.7





#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

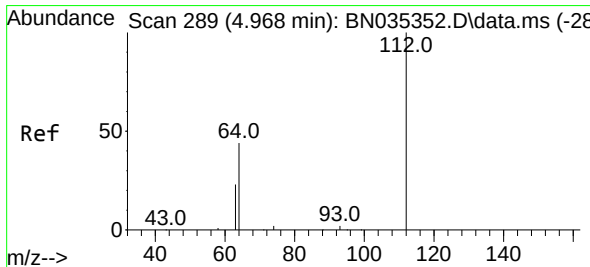
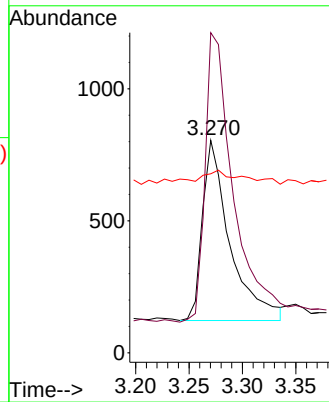
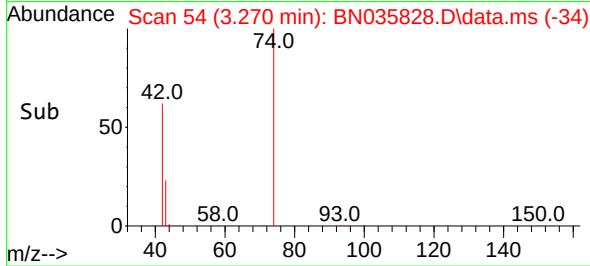
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

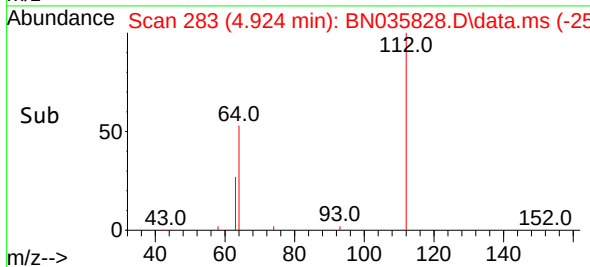
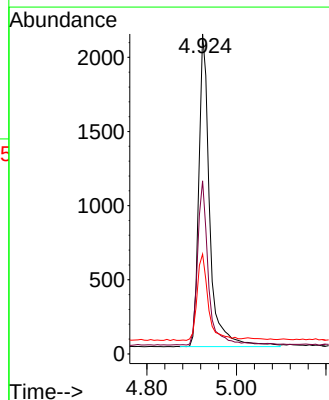
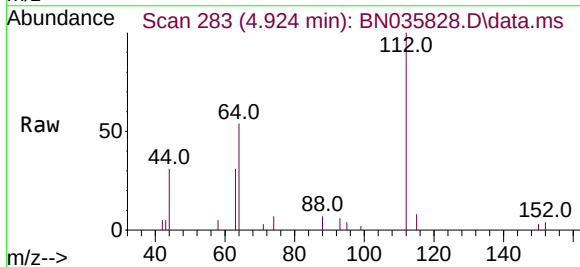
Manual Integrations
APPROVED

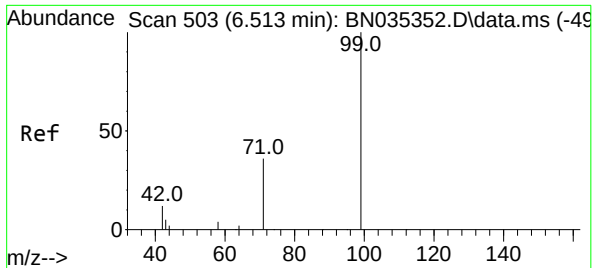
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





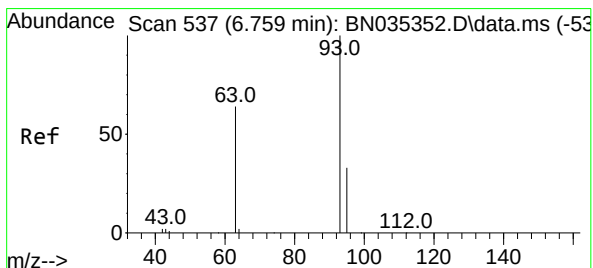
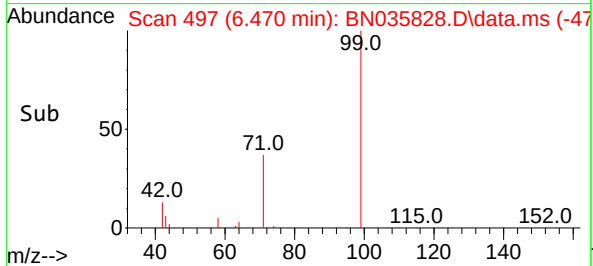
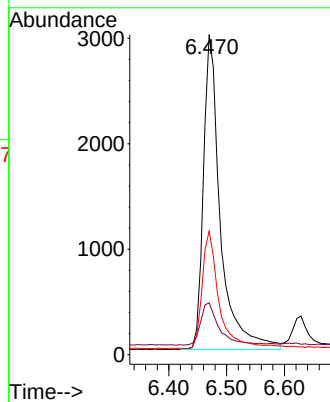
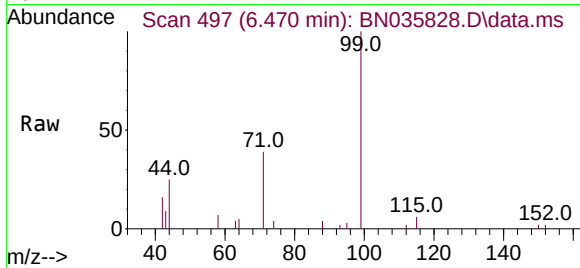
#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

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

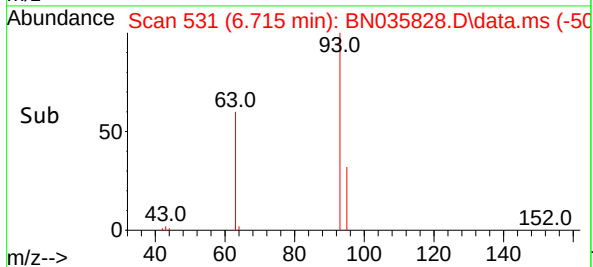
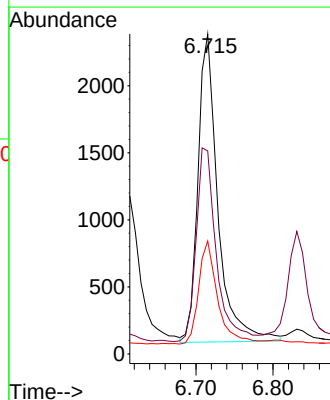
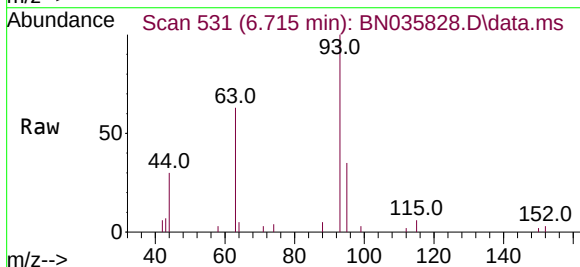
Manual Integrations
APPROVED

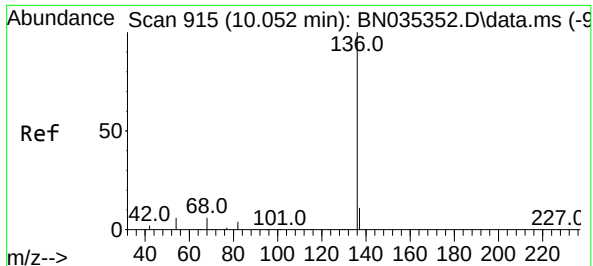
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





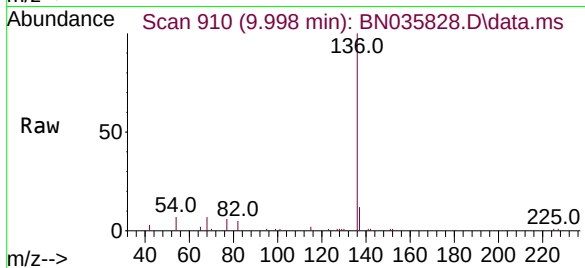
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

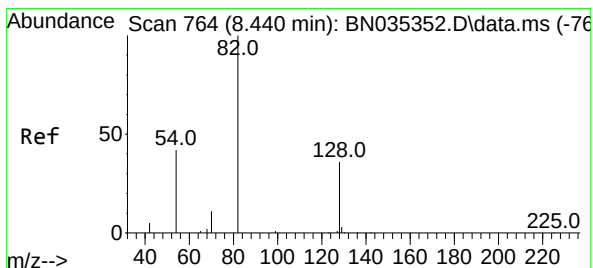
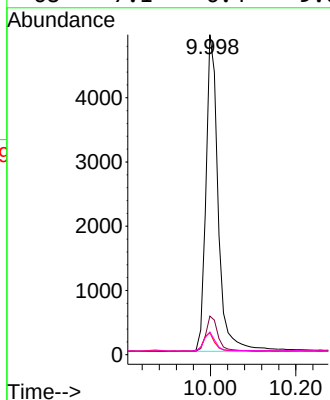
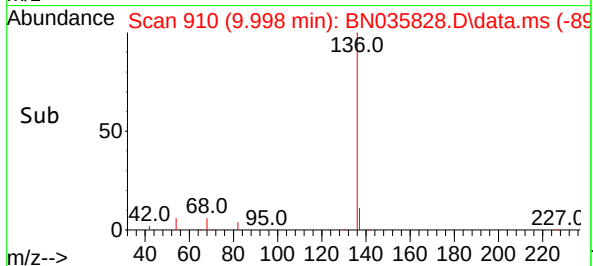


Tgt Ion:136 Resp: 9840
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 6.9 6.1 9.1
68 7.1 6.4 9.6

Manual Integrations

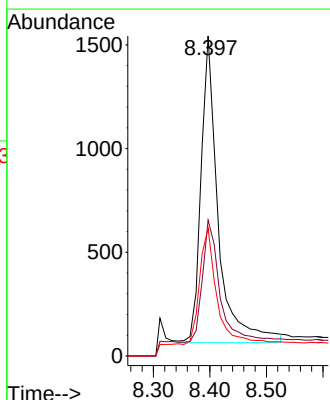
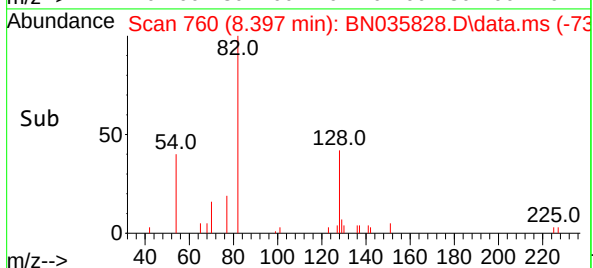
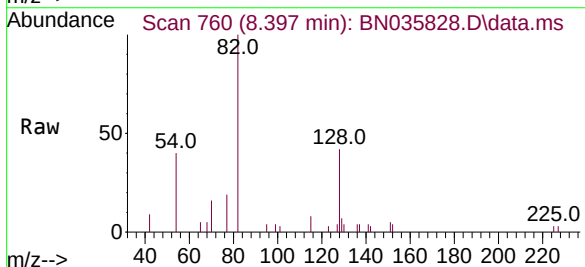
APPROVED

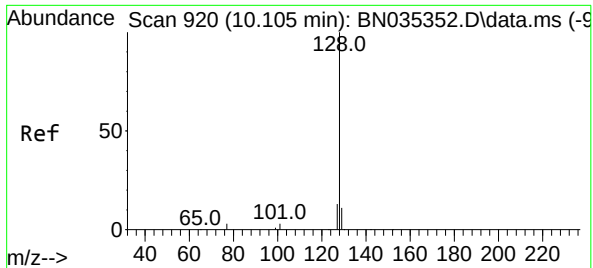
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





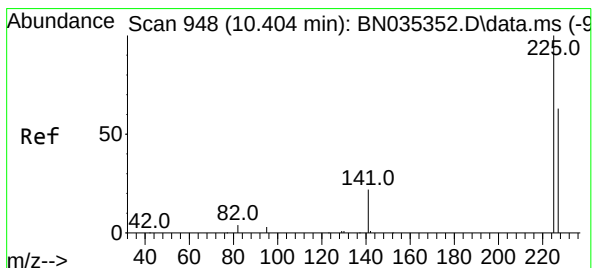
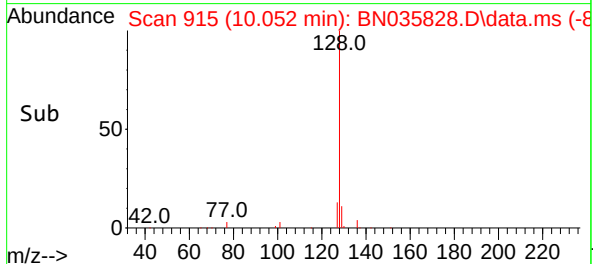
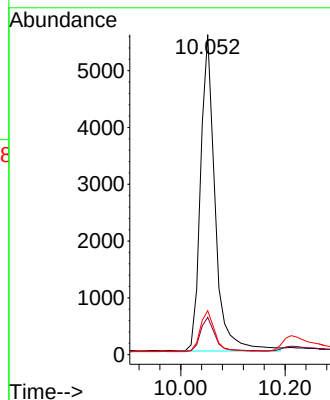
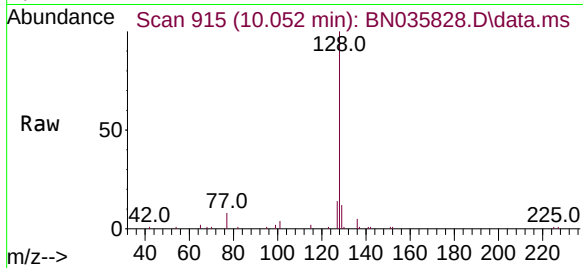
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Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

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

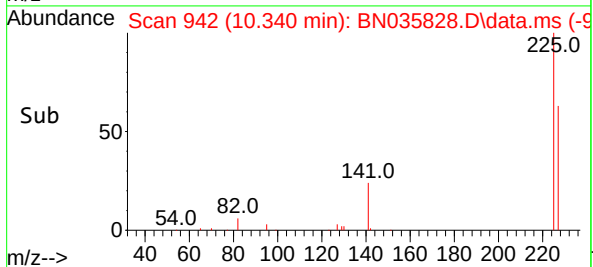
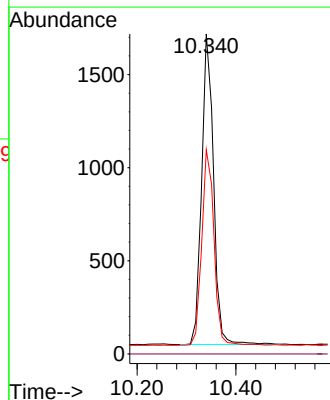
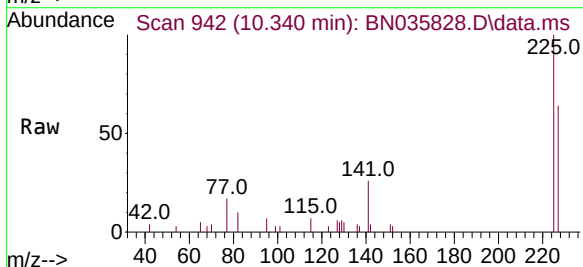
Manual Integrations
APPROVED

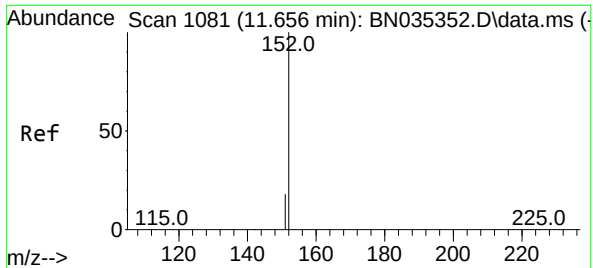
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

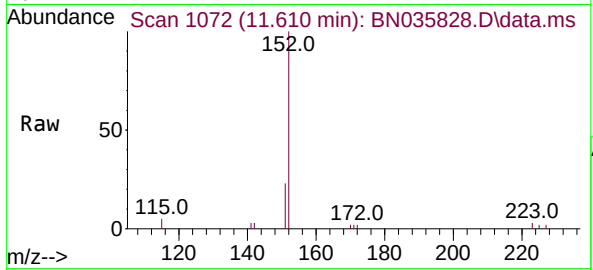
Tgt Ion:225 Resp: 2784
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

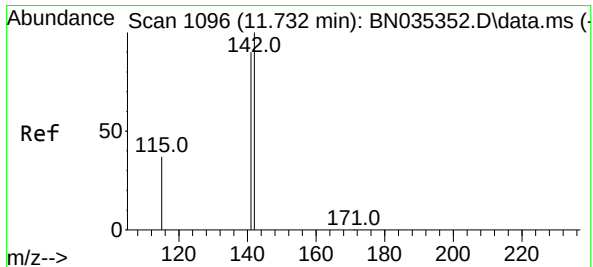
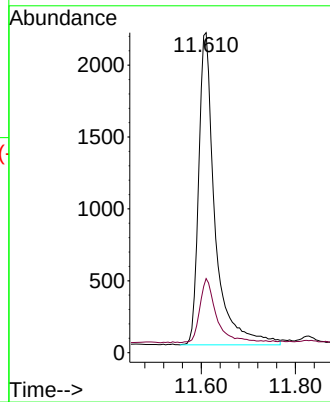
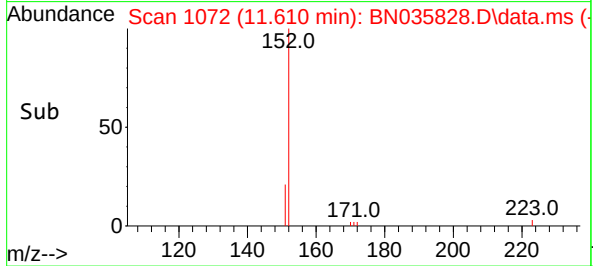
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 5240
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

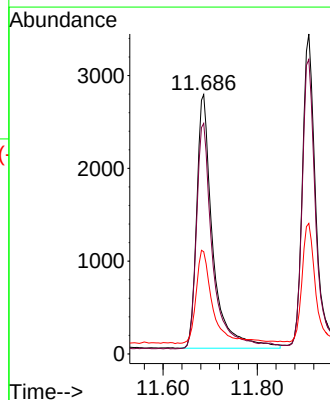
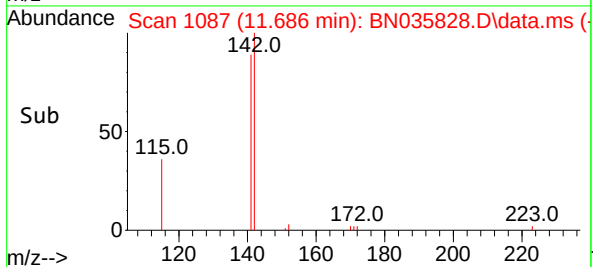
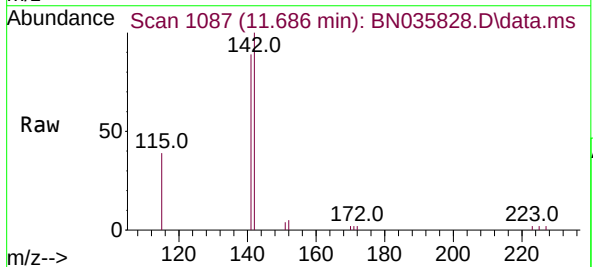
Manual Integrations
APPROVED

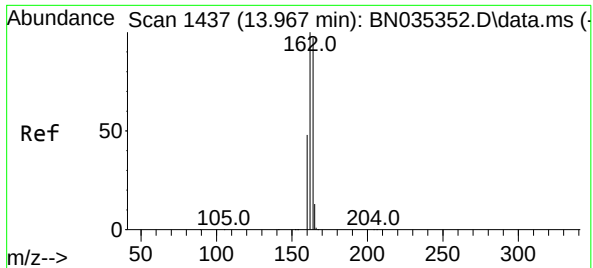
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

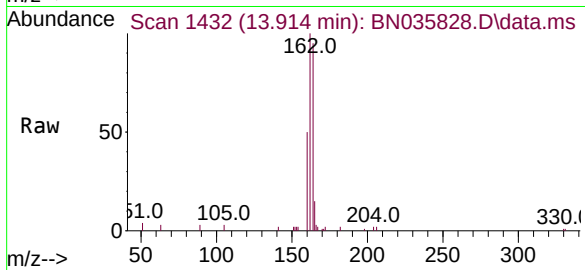
Tgt Ion:142 Resp: 6505
Ion Ratio Lower Upper
142 100
141 88.9 72.2 108.4
115 39.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

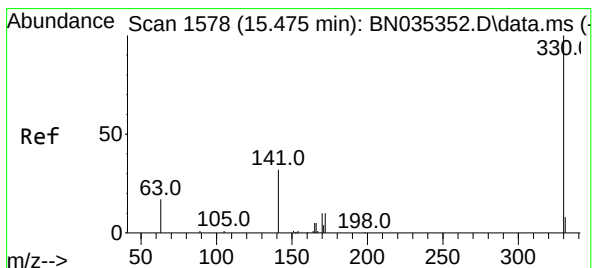
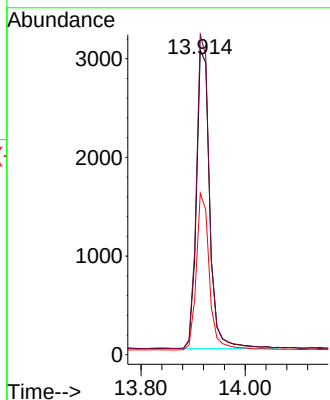
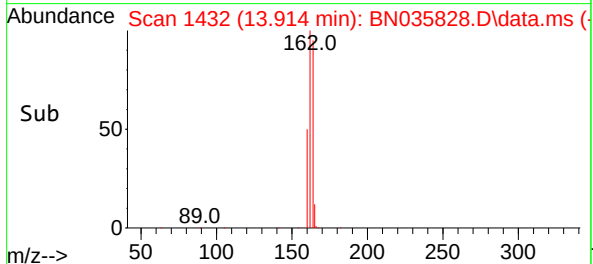
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 537.0
Ion Ratio Lower Upper
164 100
162 105.0 82.2 123.2
160 53.0 40.1 60.1

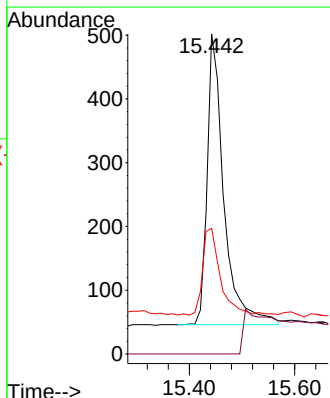
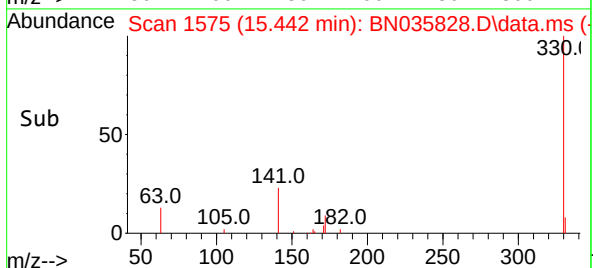
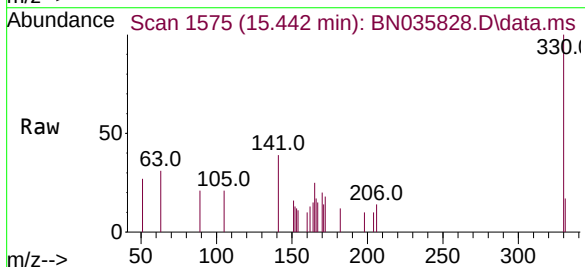
Manual Integrations
APPROVED

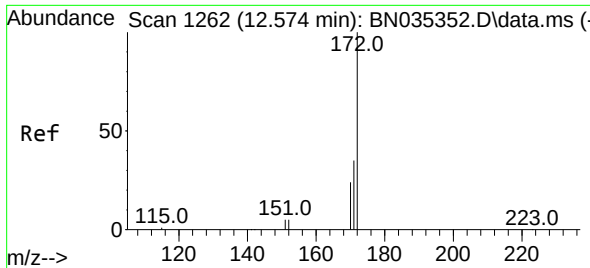
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

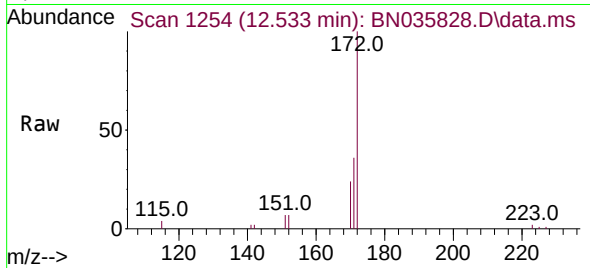
Tgt Ion:330 Resp: 1040
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.0 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

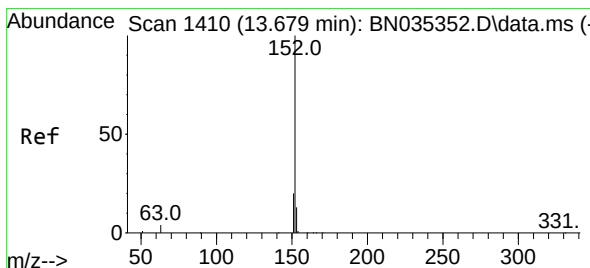
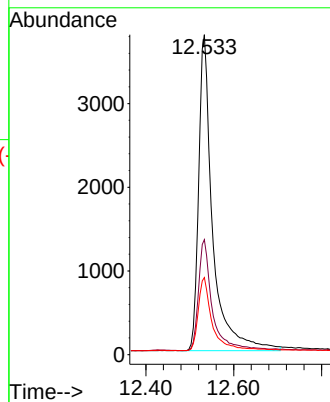
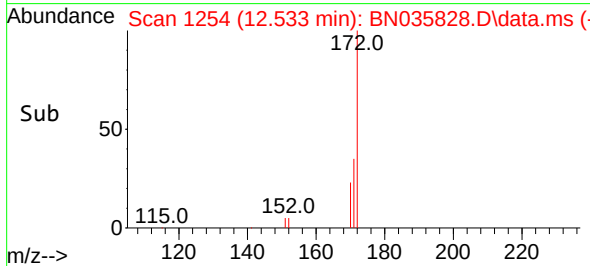
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

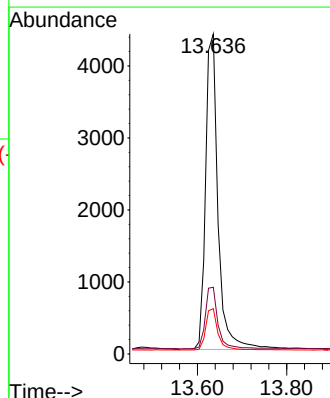
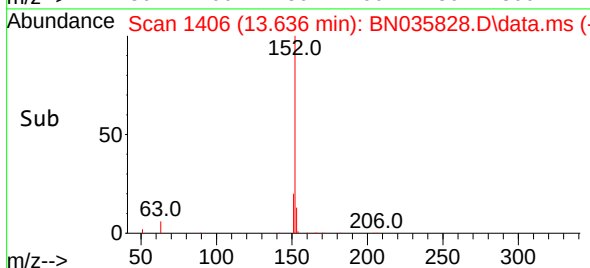
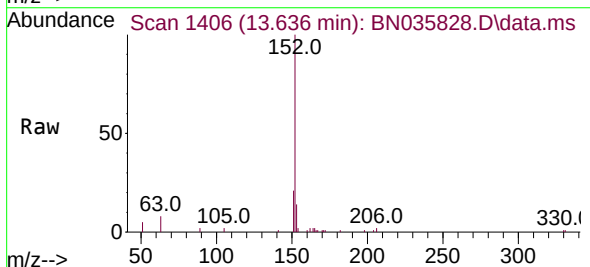
Manual Integrations
APPROVED

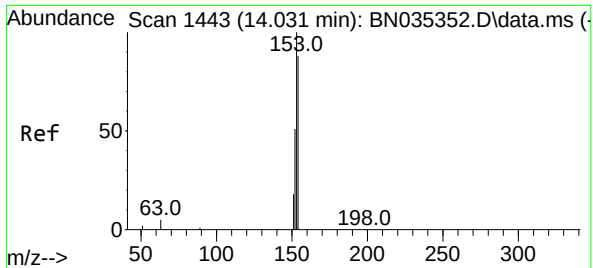
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

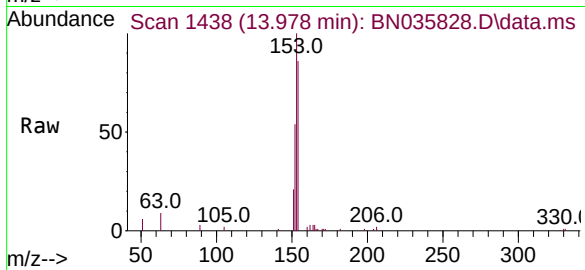
Tgt Ion:152 Resp: 8453
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

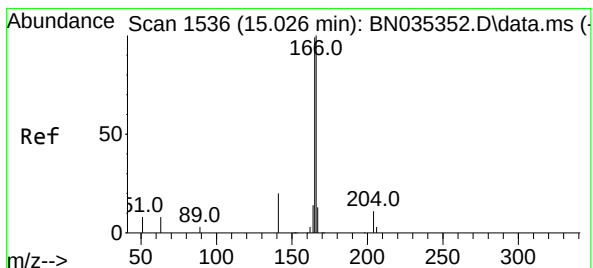
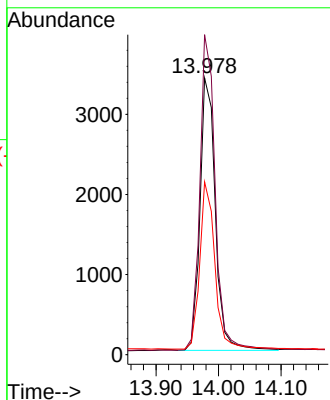
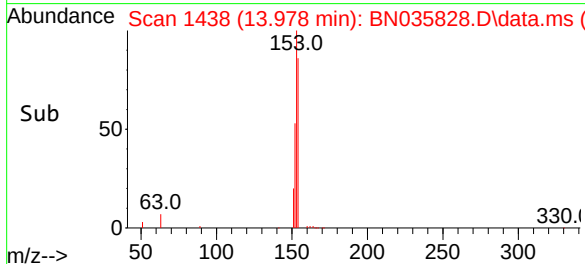
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 582
Ion Ratio Lower Upper
154 100
153 116.2 92.6 139.0
152 60.8 49.0 73.6

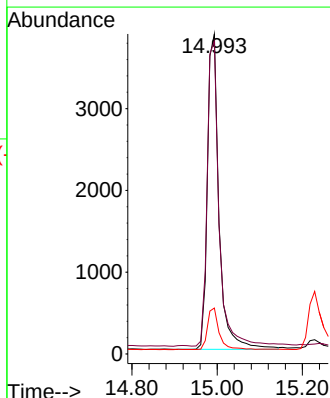
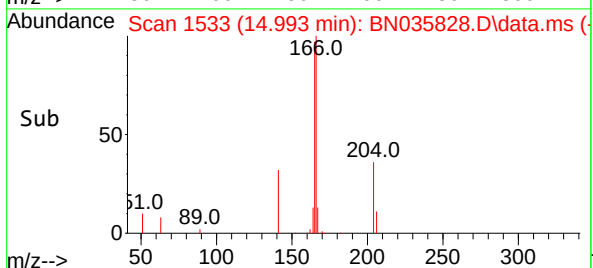
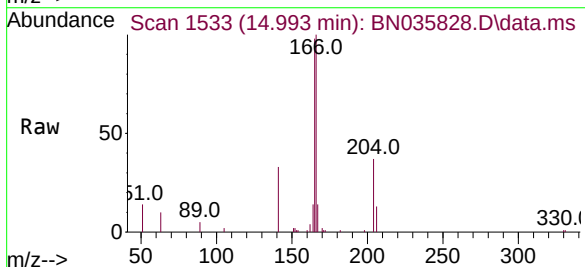
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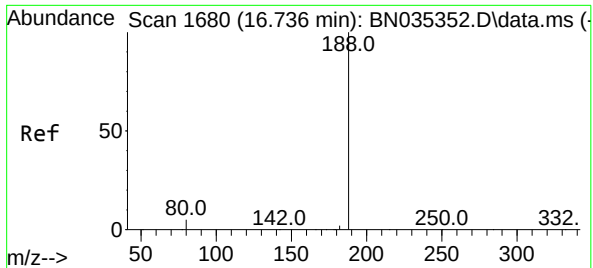
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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# 1677

Delta R.T. -0.000 min

Lab File: BN035828.D

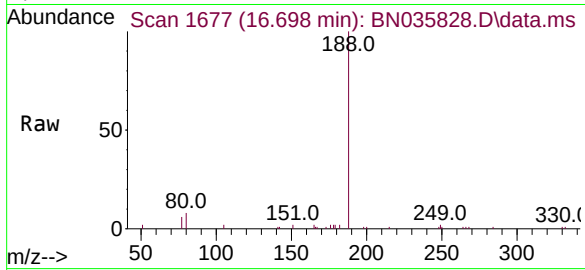
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:188 Resp: 990

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

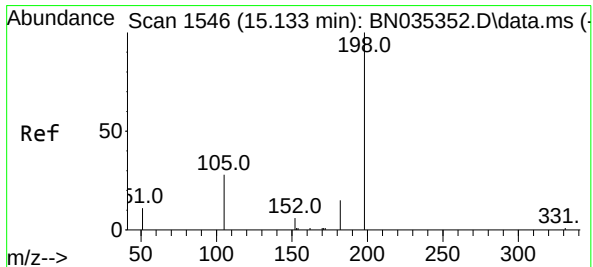
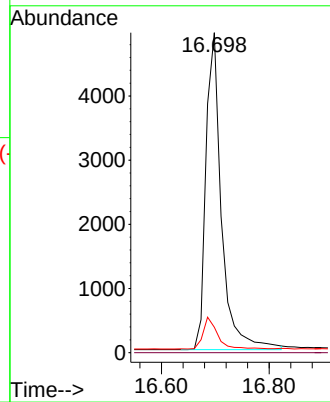
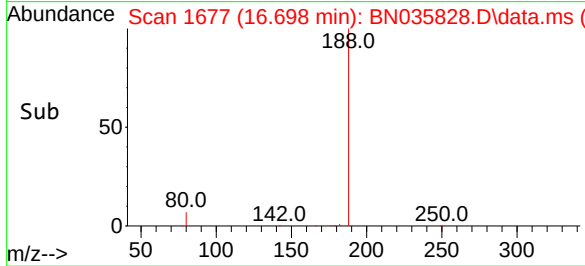
80 8.0 4.6 6.8

Manual Integrations

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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

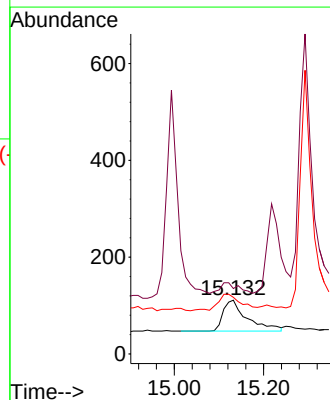
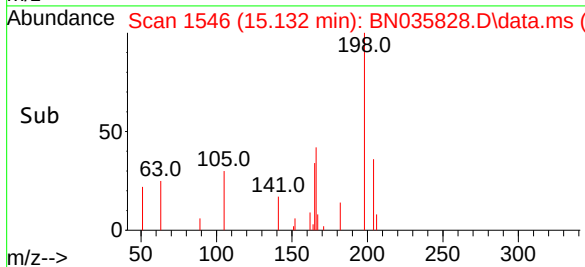
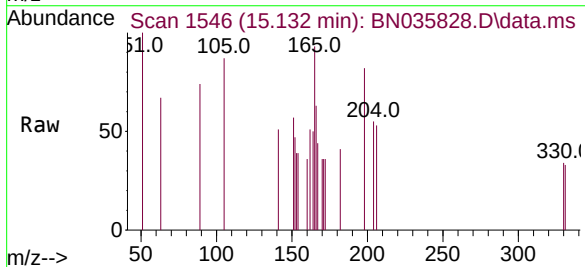
Tgt Ion:198 Resp: 239

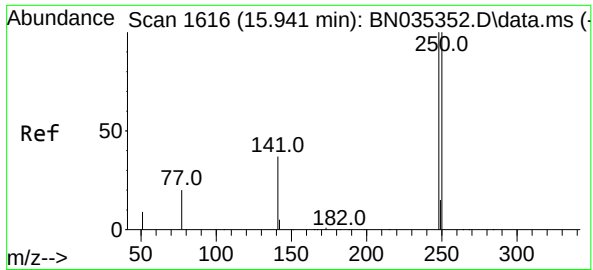
Ion Ratio Lower Upper

198 100

51 121.6 46.5 69.7#

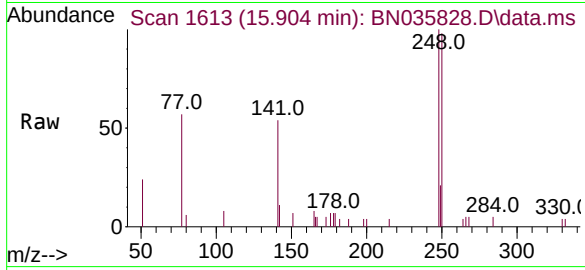
105 105.4 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

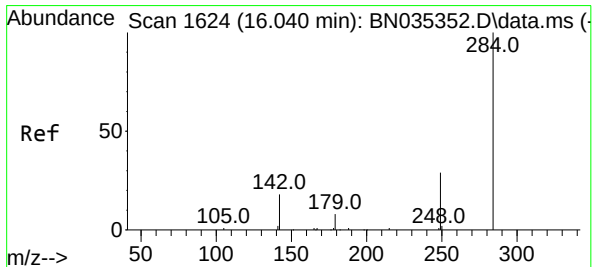
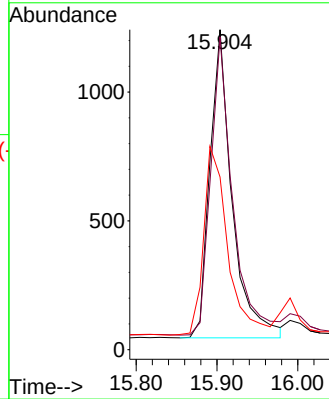
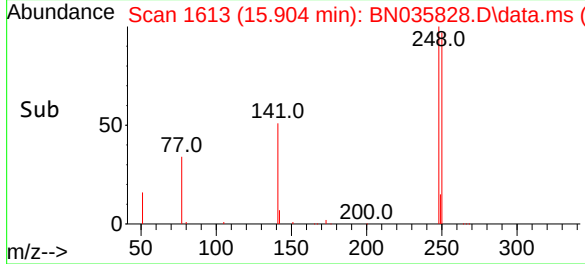
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 228
Ion Ratio Lower Upper
248 100
250 97.8 80.6 120.8
141 53.9 31.5 47.3

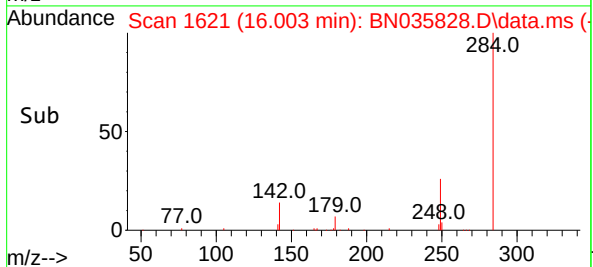
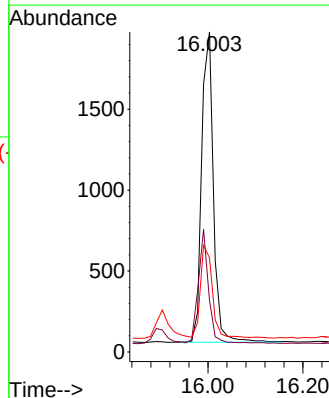
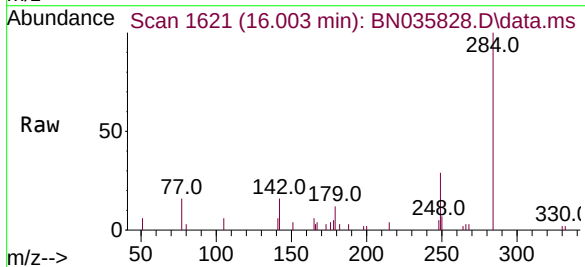
Manual Integrations
APPROVED

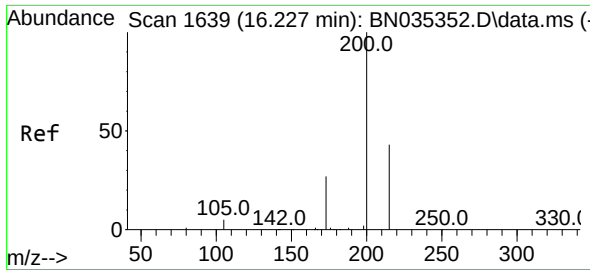
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





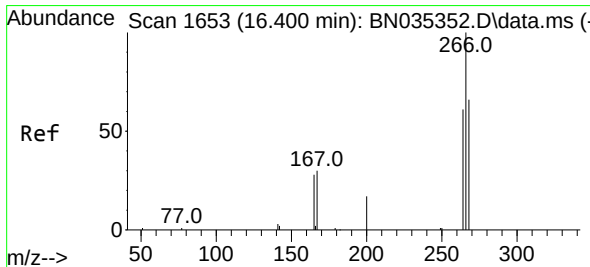
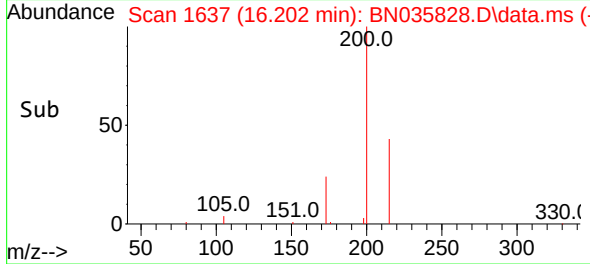
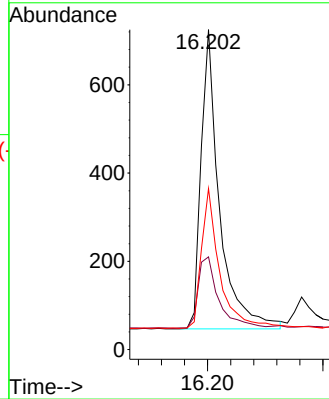
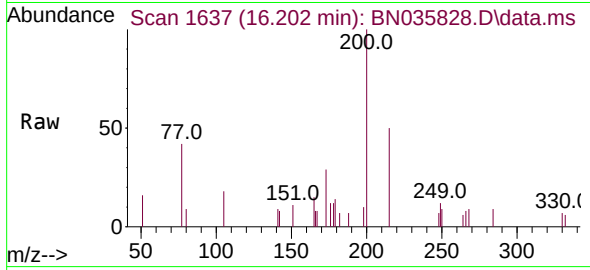
#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

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

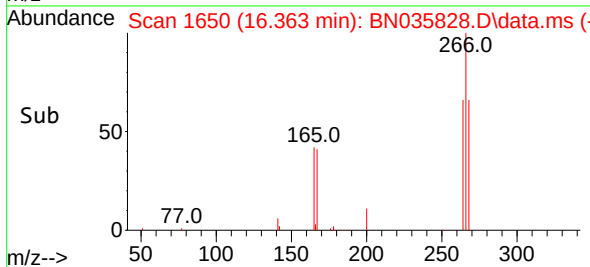
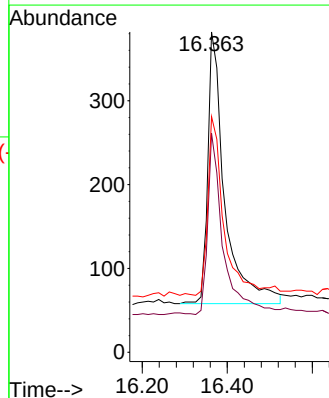
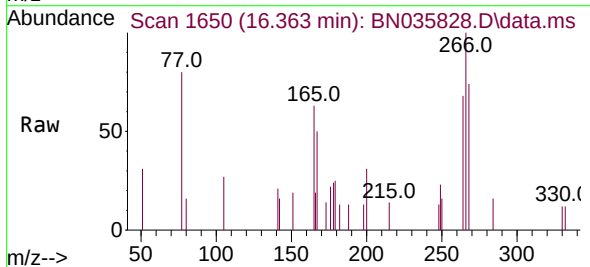
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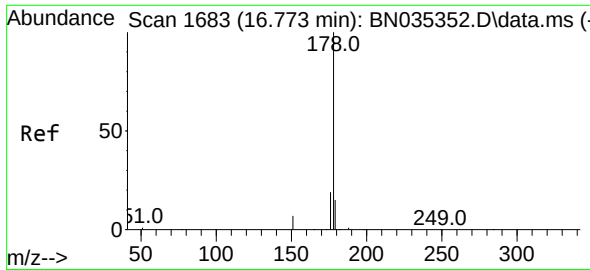
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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





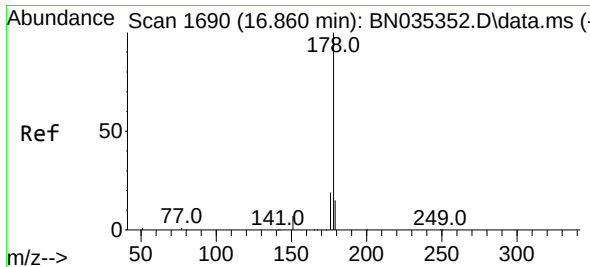
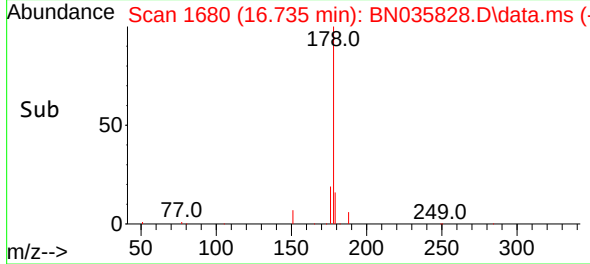
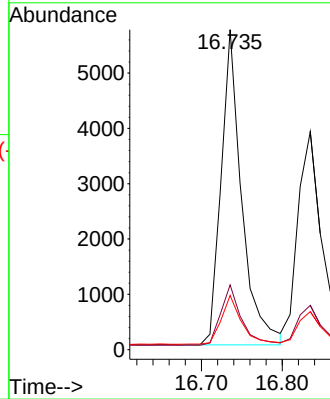
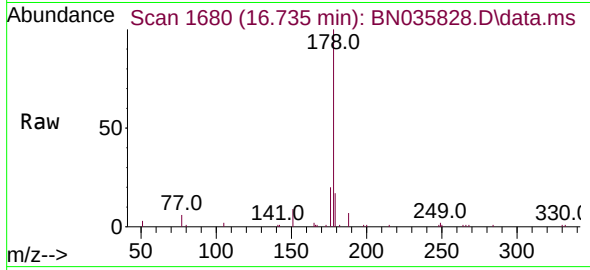
#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 1009
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5

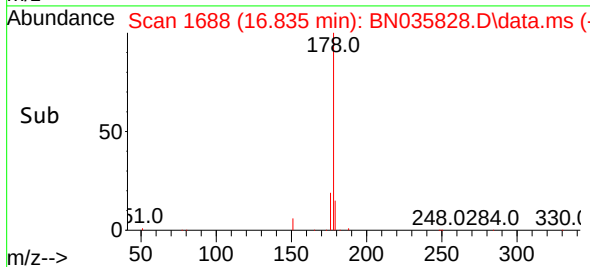
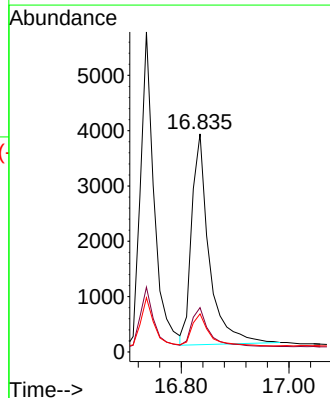
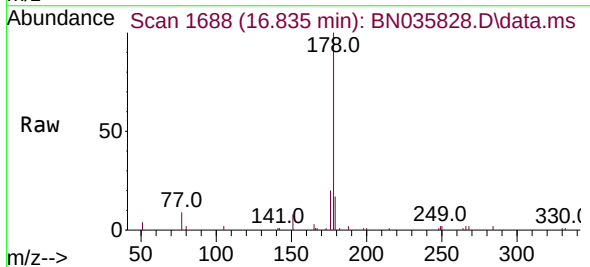
Manual Integrations
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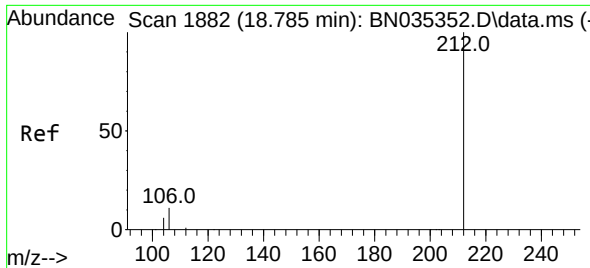
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

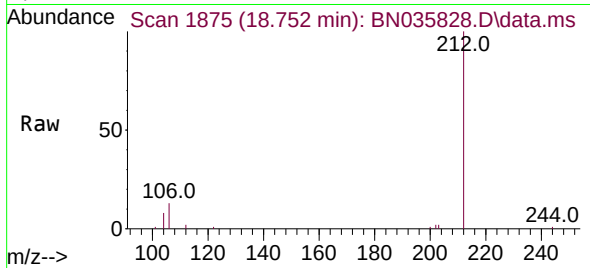
Tgt Ion:178 Resp: 8619
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.5 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

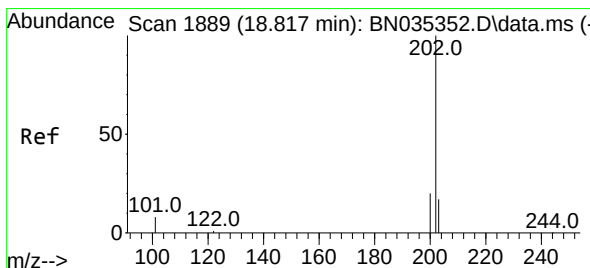
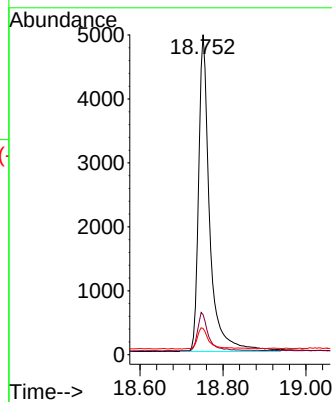
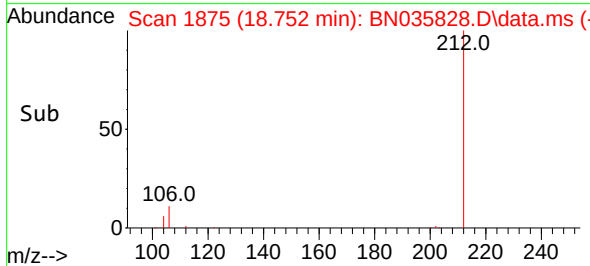
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 922
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 7.0 5.3 7.9

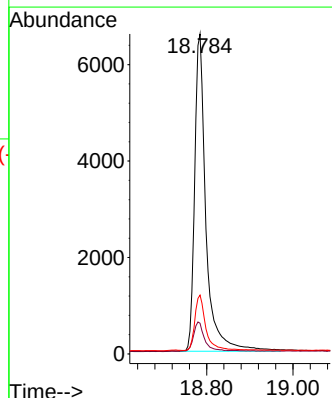
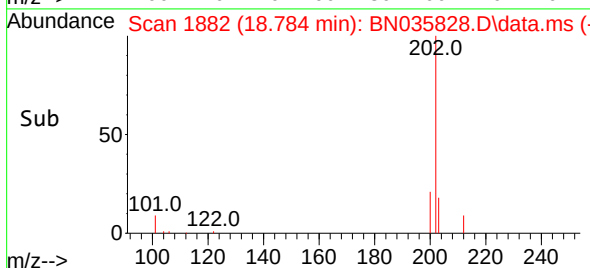
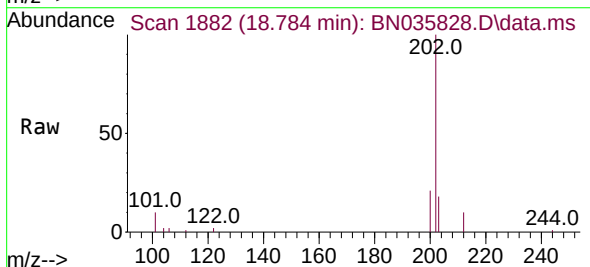
Manual Integrations
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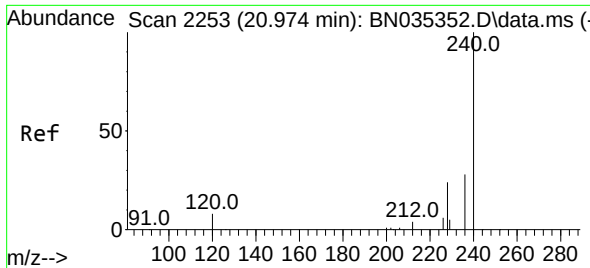
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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# 21

Delta R.T. -0.009 min

Lab File: BN035828.D

Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

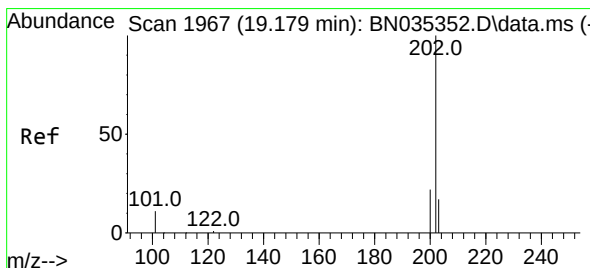
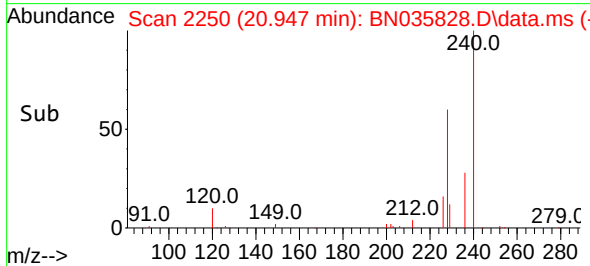
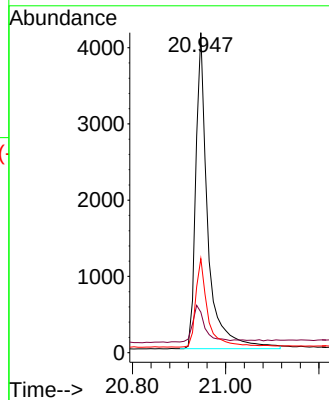
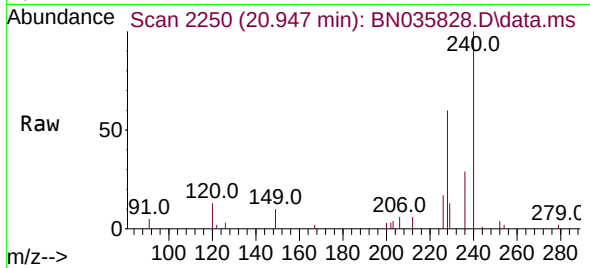
Tgt Ion:240	Resp:	744
Ion Ratio	Lower	Upper
240	100	
120	12.6	7.9 11.9
236	29.4	22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.445 ng

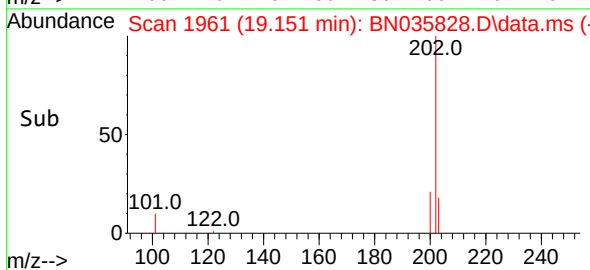
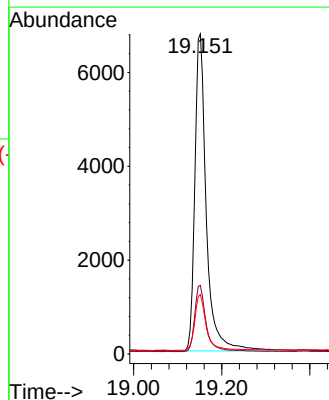
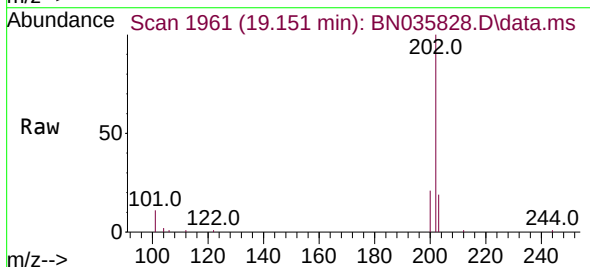
RT: 19.151 min Scan# 1961

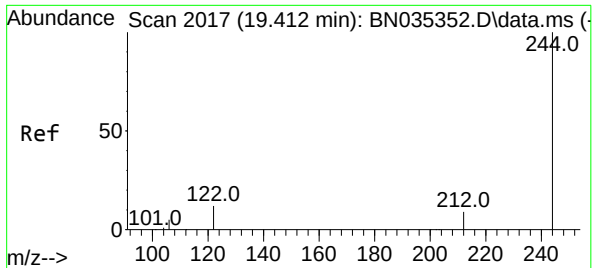
Delta R.T. -0.010 min

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# 2011
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

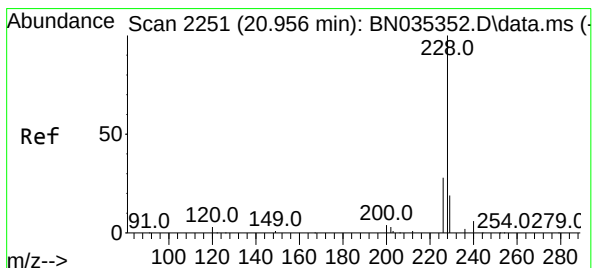
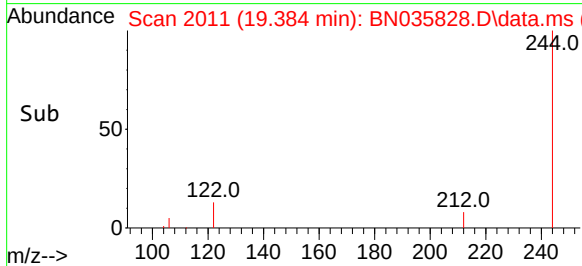
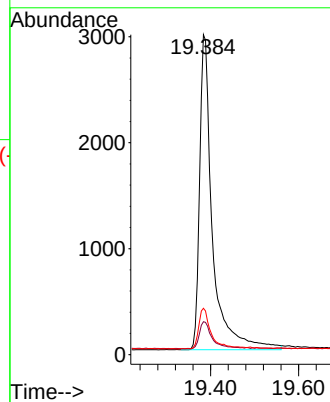
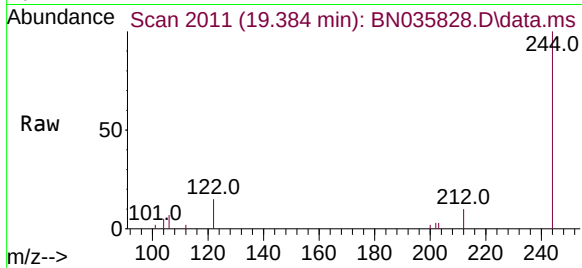
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5

Manual Integrations

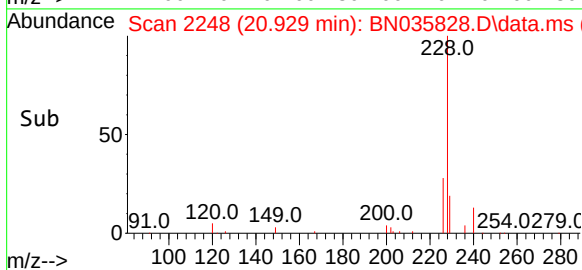
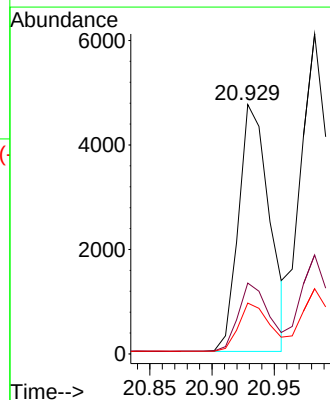
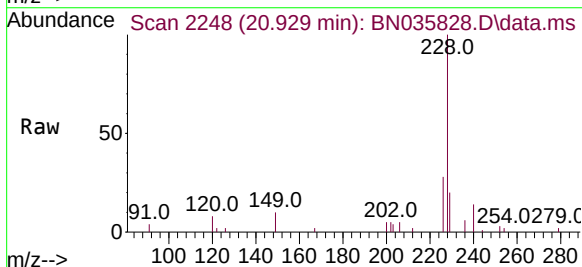
APPROVED

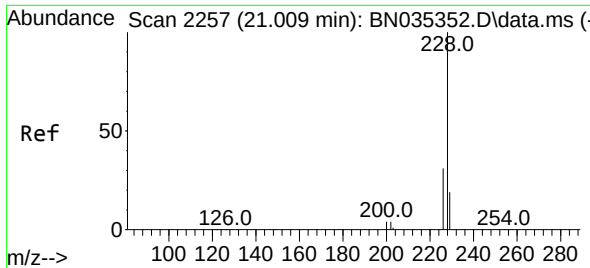
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8





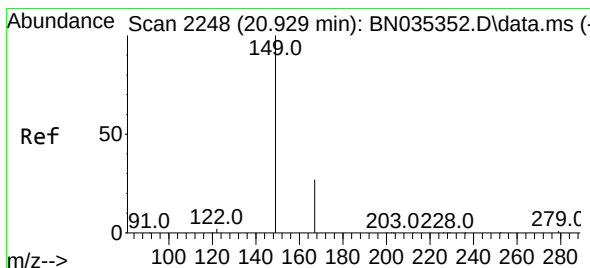
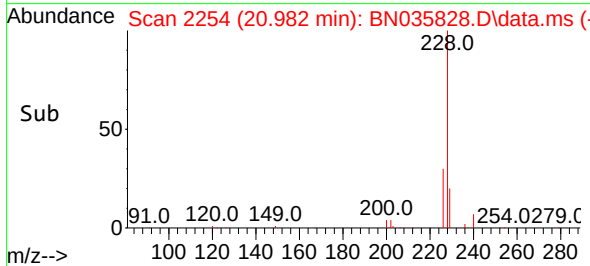
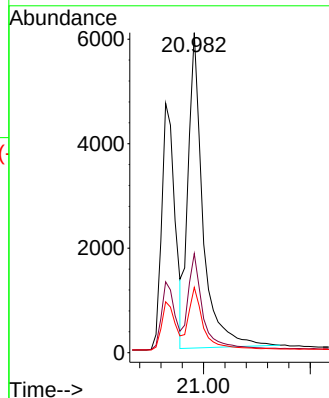
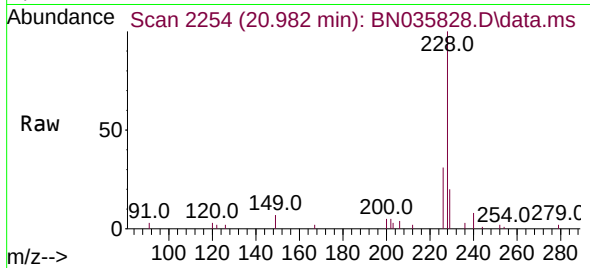
#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 211628
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

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

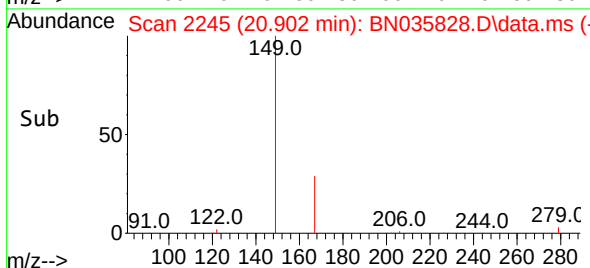
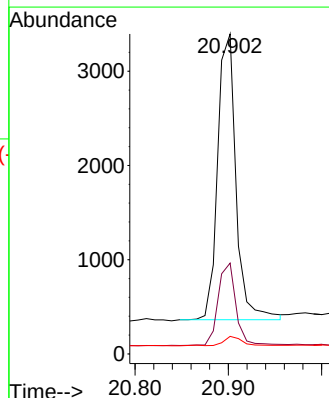
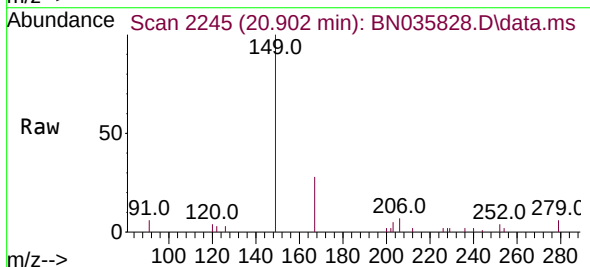
Manual Integrations
APPROVED

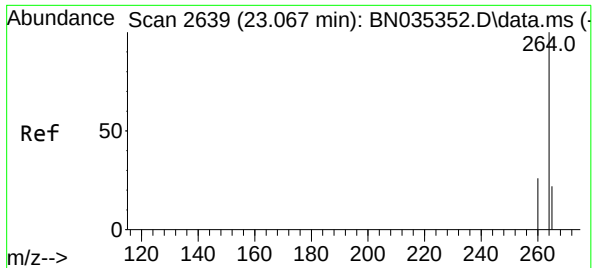
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#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

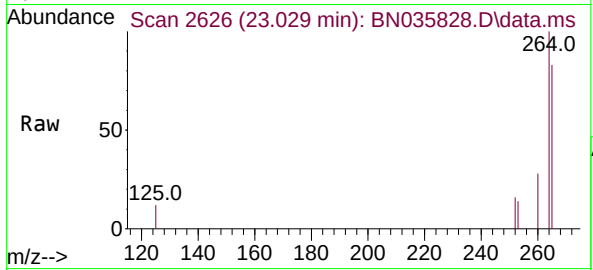
Tgt Ion:149 Resp: 4135
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.5 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

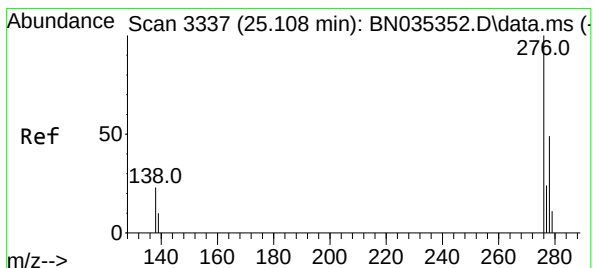
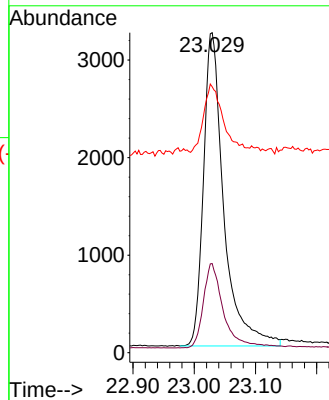
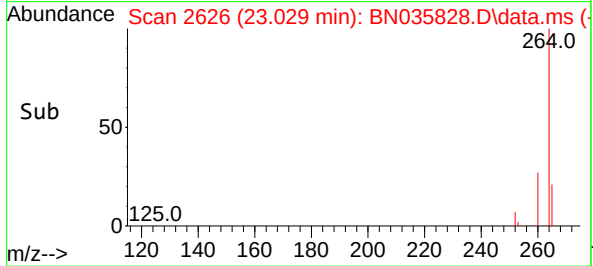
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 7420
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 83.1 40.2 60.4

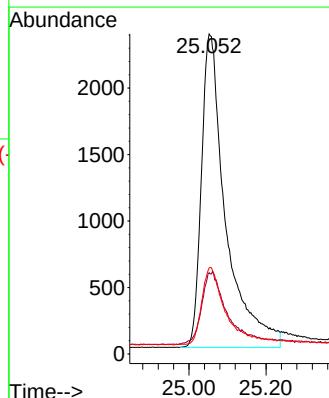
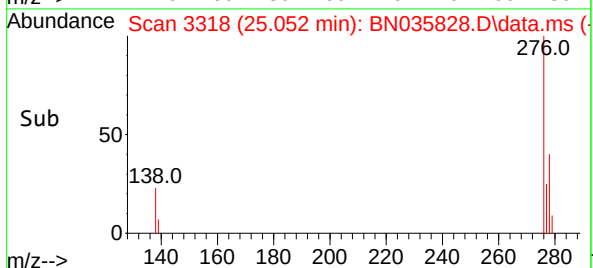
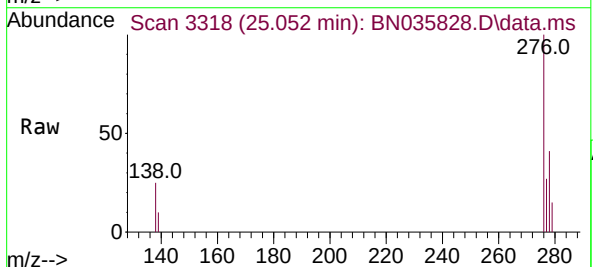
Manual Integrations
APPROVED

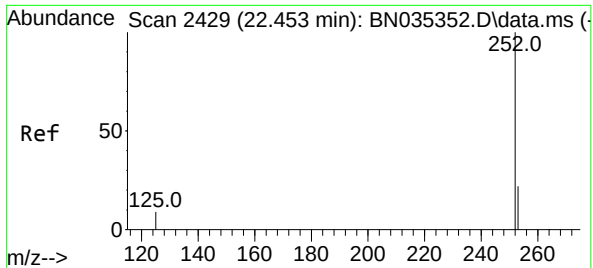
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 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# 2417

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

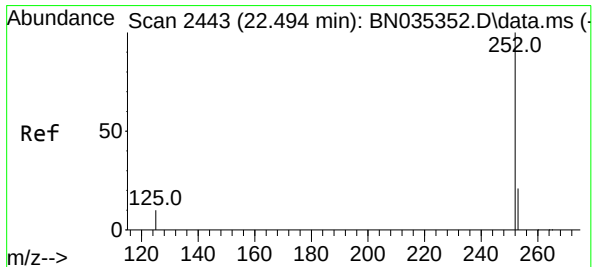
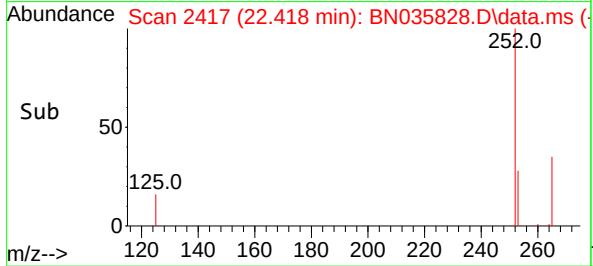
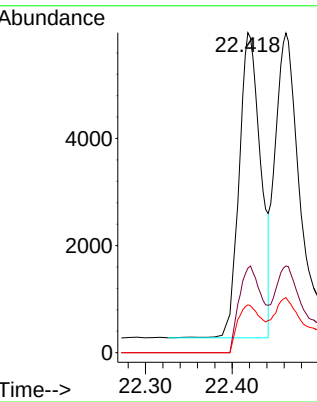
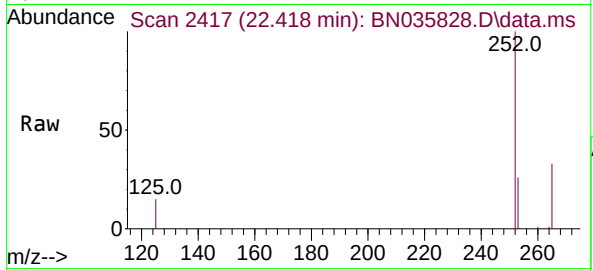
125 15.0 9.6 14.4

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

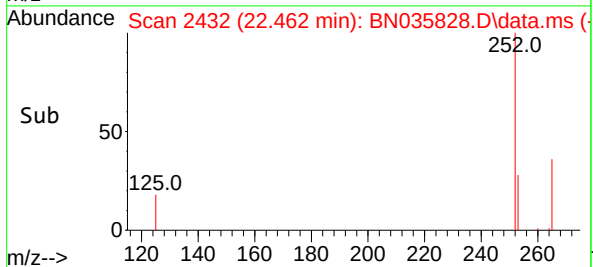
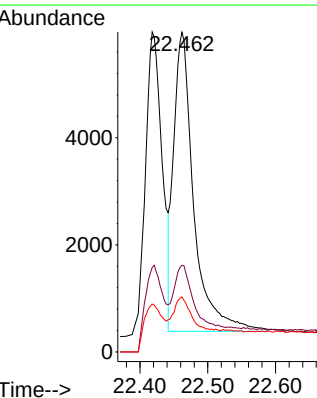
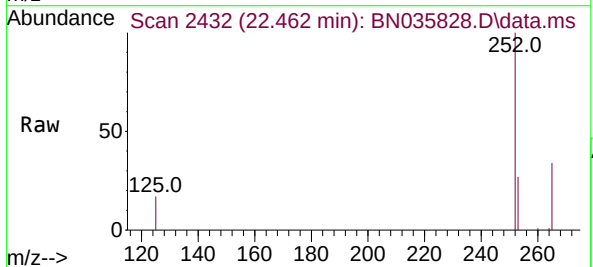
Tgt Ion:252 Resp: 11542

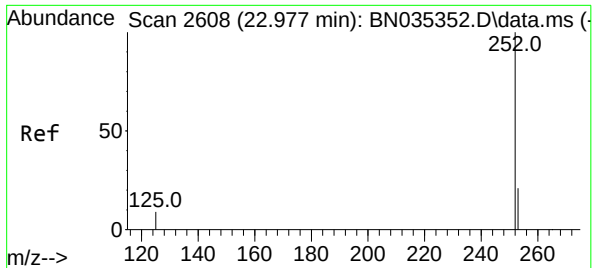
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.006 min

Lab File: BN035828.D

Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

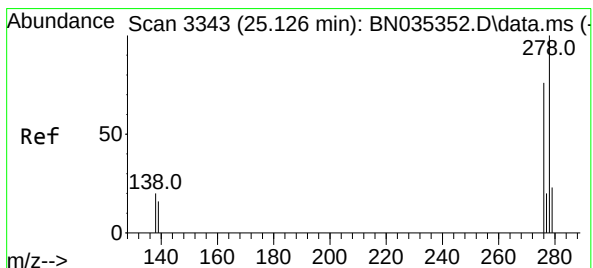
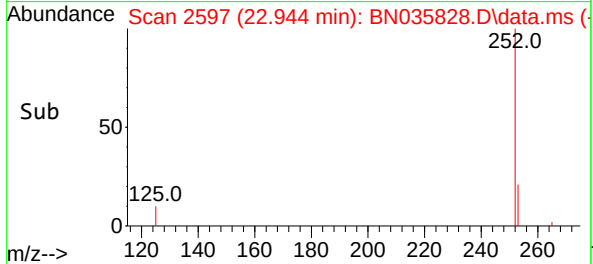
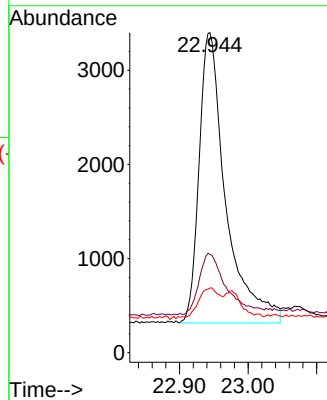
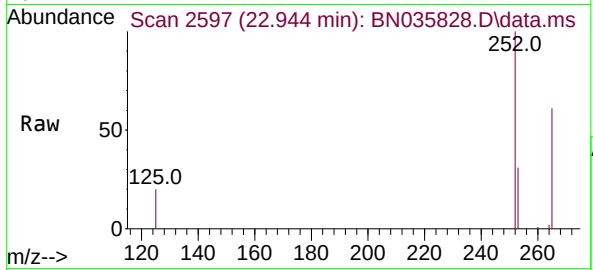
Tgt Ion:	252	Resp:	833
Ion Ratio	Lower	Upper	
252	100		
253	30.7	20.2	30.4
125	20.2	10.9	16.3

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

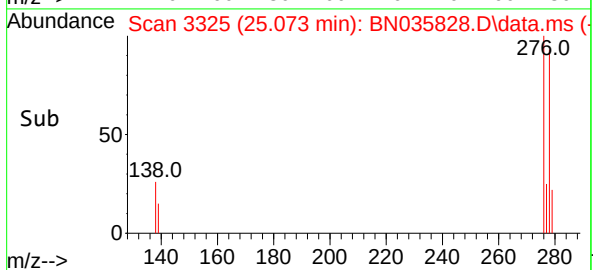
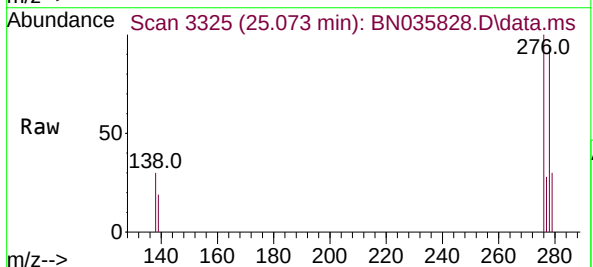
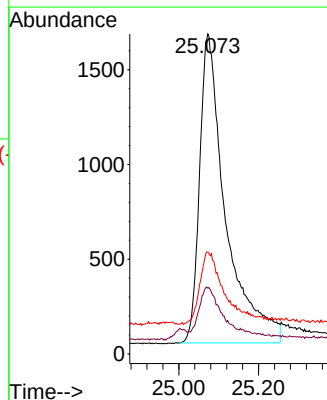
RT: 25.073 min Scan# 3325

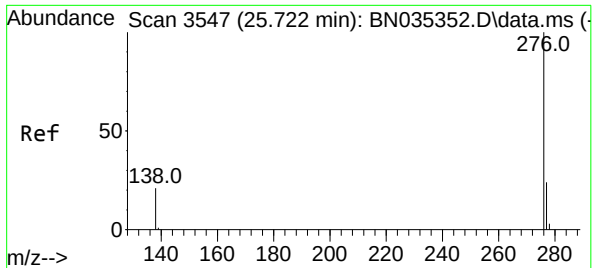
Delta R.T. -0.009 min

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

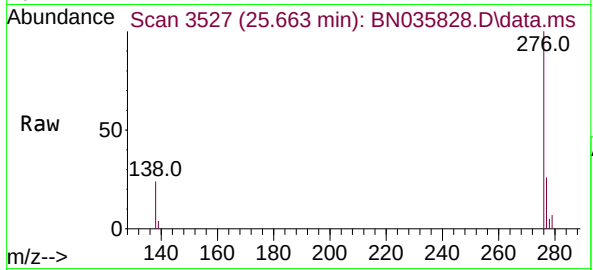
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 965

Ion Ratio Lower Upper

276 100

277 25.8 19.9 29.9

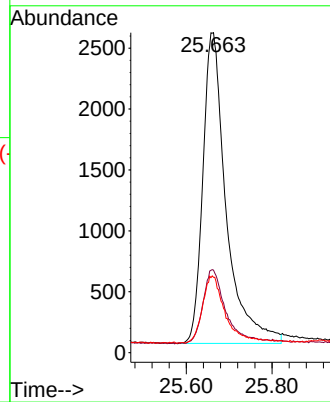
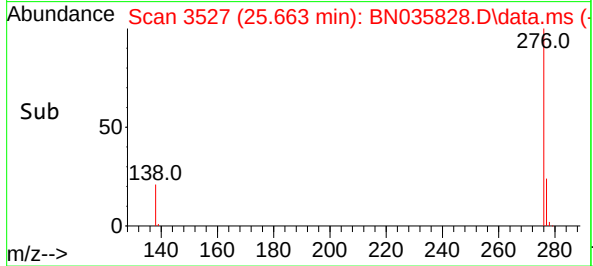
138 23.6 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



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

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



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.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 20:55

Lab File ID: BN035830.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	0.551		-12.0	20.0
Fluoranthene-d10	1.134	0.951		-16.1	20.0
2-Fluorophenol	1.001	0.909		-9.2	20.0
Phenol-d6	1.204	1.553		29.0	20.0
Nitrobenzene-d5	0.244	0.308		26.2	20.0
2-Fluorobiphenyl	1.512	1.517		0.3	20.0
2,4,6-Tribromophenol	0.284	0.202		-28.9	20.0
Terphenyl-d14	0.789	0.833		5.6	20.0
1,4-Dioxane	0.382	0.490		28.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035830.D
 Acq On : 24 Dec 2024 20:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:55:02 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	7.257	152	3866	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	9955	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5956	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	11143	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7851	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7870	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3514	0.363	ng	-0.01
5) Phenol-d6	6.470	99	6003	0.516	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3063m	0.504	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5482	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1203	0.285	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	9033	0.401	ng	-0.02
27) Fluoranthene-d10	18.752	212	10597m	0.335	ng	0.00
31) Terphenyl-d14	19.384	244	6543	0.422	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.974	88	1895m	0.513	ng	
3) n-Nitrosodimethylamine	3.270	42	1162	0.377	ng	# 83
6) bis(2-Chloroethyl)ether	6.715	93	4053	0.415	ng	99
9) Naphthalene	10.052	128	10855	0.413	ng	99
10) Hexachlorobutadiene	10.340	225	2815	0.465	ng	# 100
12) 2-Methylnaphthalene	11.681	142	6938	0.369	ng	98
16) Acenaphthylene	13.625	152	9384	0.375	ng	100
17) Acenaphthene	13.978	154	6532	0.393	ng	100
18) Fluorene	14.983	166	8318	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	301	0.275	ng	# 35
21) 4-Bromophenyl-phenylether	15.904	248	2677	0.411	ng	# 94
22) Hexachlorobenzene	16.003	284	3900	0.510	ng	96
23) Atrazine	16.202	200	1790	0.386	ng	96
24) Pentachlorophenol	16.363	266	1032	0.310	ng	88
25) Phenanthrene	16.735	178	11523	0.376	ng	100
26) Anthracene	16.835	178	9576	0.346	ng	100
28) Fluoranthene	18.780	202	13046	0.316	ng	100
30) Pyrene	19.152	202	13156	0.454	ng	100
32) Benzo(a)anthracene	20.929	228	8776	0.320	ng	100
33) Chrysene	20.983	228	12184	0.430	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4711	0.434	ng	100
36) Indeno(1,2,3-cd)pyrene	25.052	276	10972	0.357	ng	99
37) Benzo(b)fluoranthene	22.418	252	14430	0.501	ng	# 95
38) Benzo(k)fluoranthene	22.459	252	12555m	0.443	ng	
39) Benzo(a)pyrene	22.942	252	8861	0.374	ng	# 88
40) Dibenzo(a,h)anthracene	25.076	278	7792	0.321	ng	92
41) Benzo(g,h,i)perylene	25.661	276	10218	0.403	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

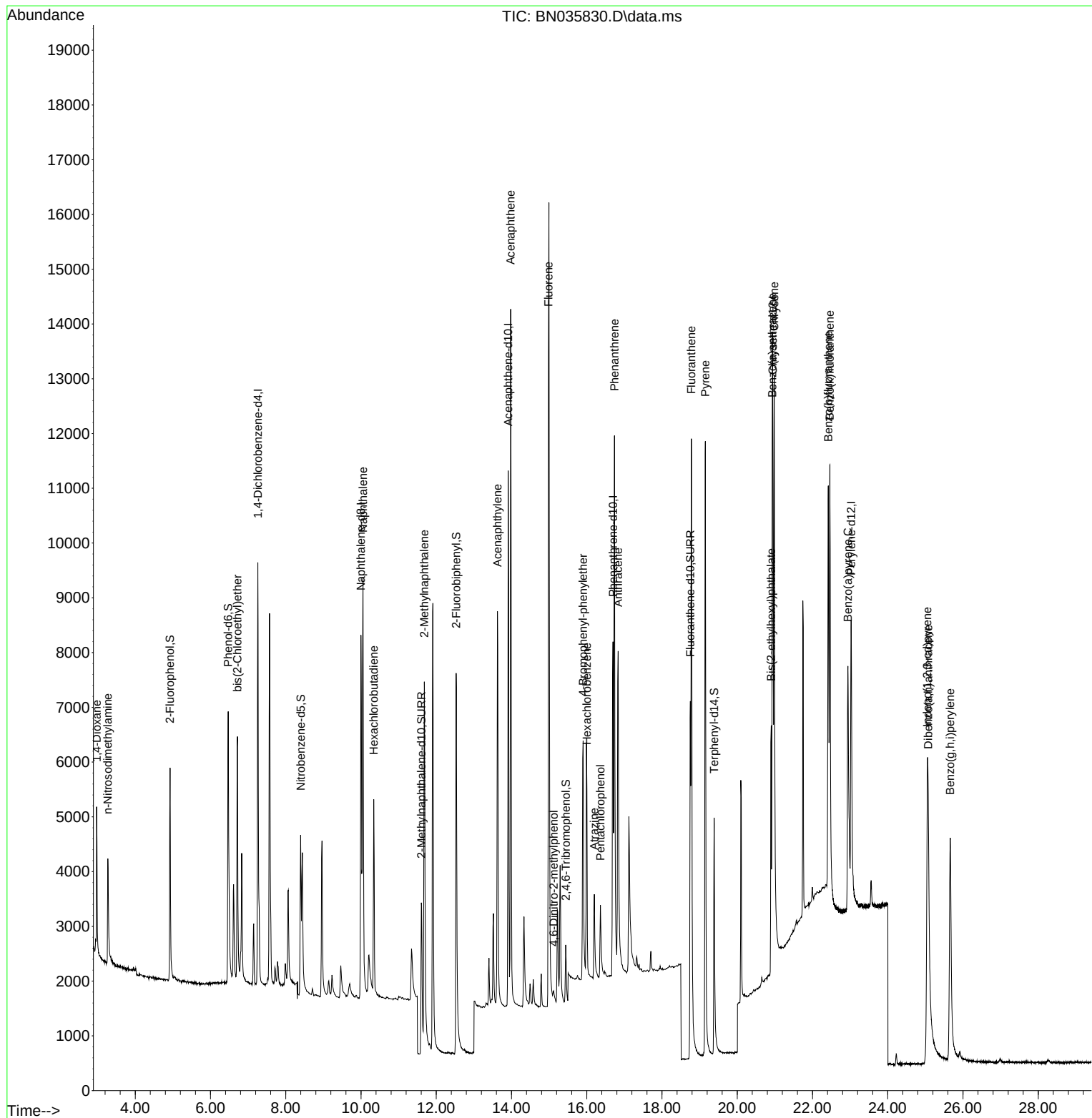
Manual Integrations

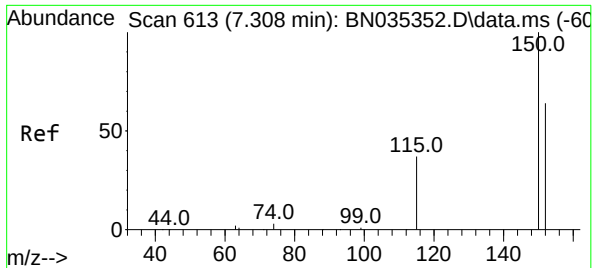
APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:55:02 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





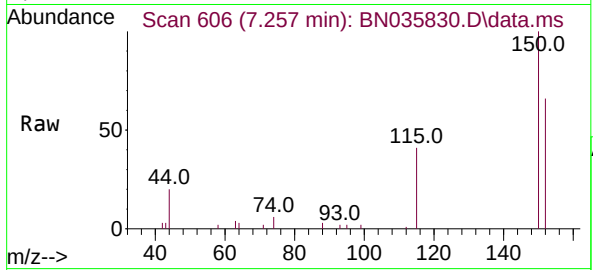
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1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

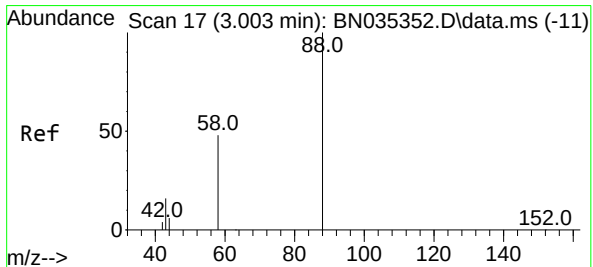
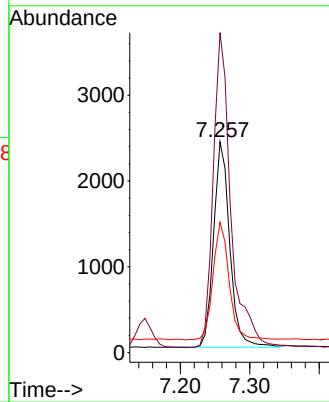
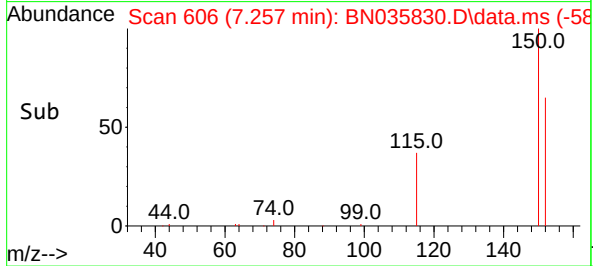


Tgt Ion:152 Resp: 3860
Ion Ratio Lower Upper
152 100
150 151.7 124.0 186.0
115 61.8 49.6 74.4

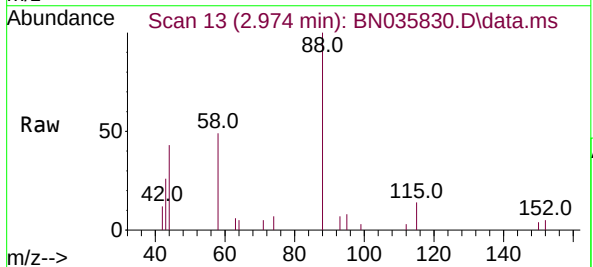
Manual Integrations

APPROVED

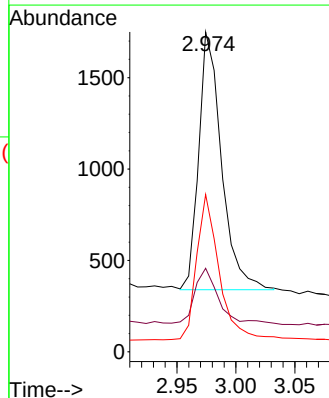
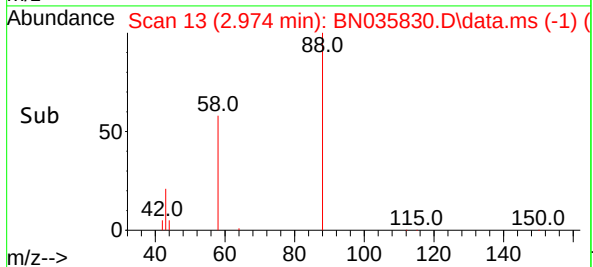
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

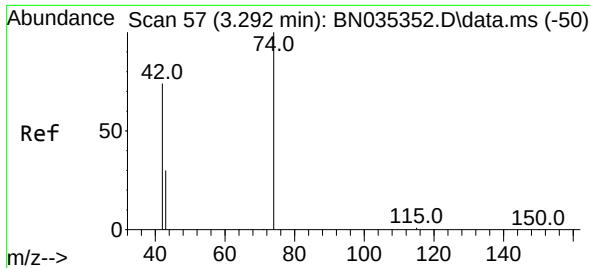


#2
1,4-Dioxane
Concen: 0.513 ng m
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55



Tgt Ion: 88 Resp: 1895
Ion Ratio Lower Upper
88 100
43 23.2 17.2 25.8
58 56.4 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

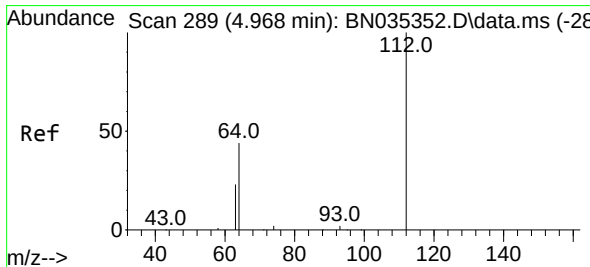
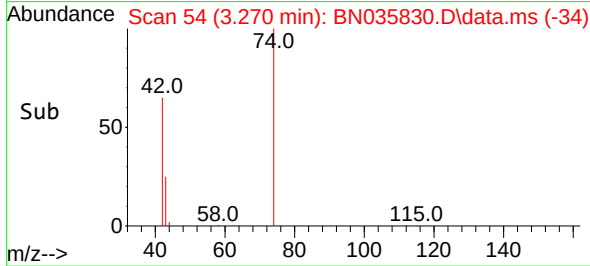
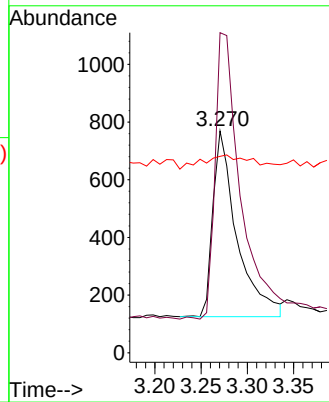
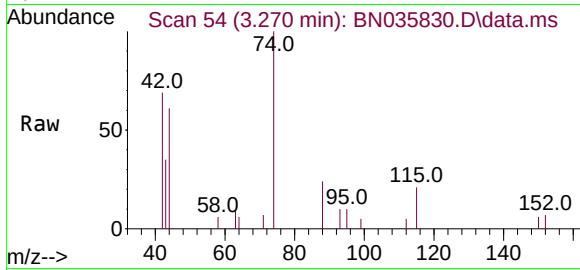
SSTDCCC0.4

Tgt Ion: 42 Resp: 1162
Ion Ratio Lower Upper
42 100
74 177.6 124.9 187.3
44 15.8 2.2 3.4

Manual Integrations

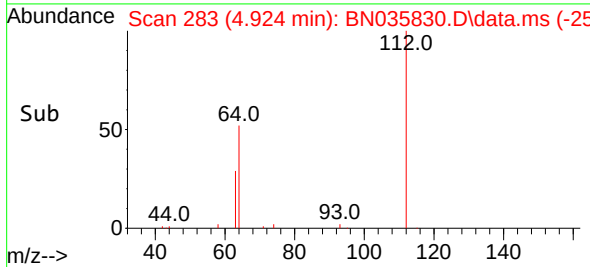
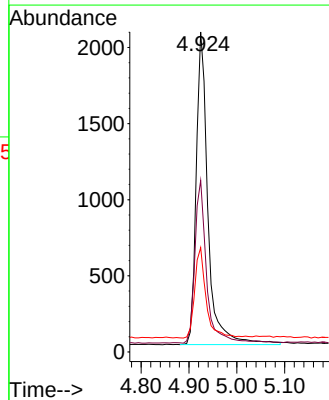
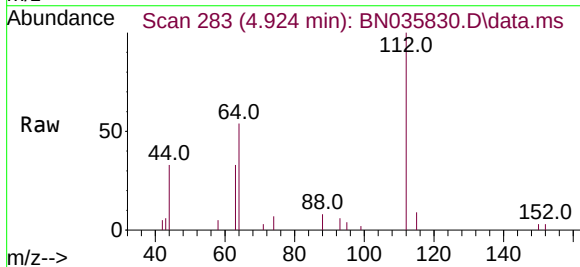
APPROVED

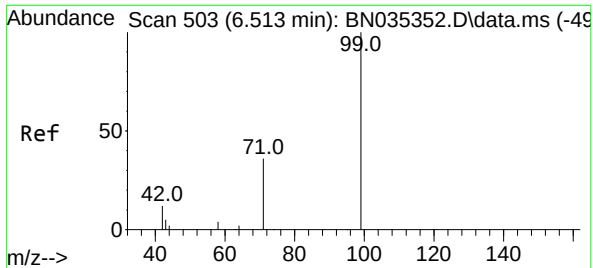
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.363 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:112 Resp: 3514
Ion Ratio Lower Upper
112 100
64 50.9 39.8 59.8
63 27.9 21.0 31.6





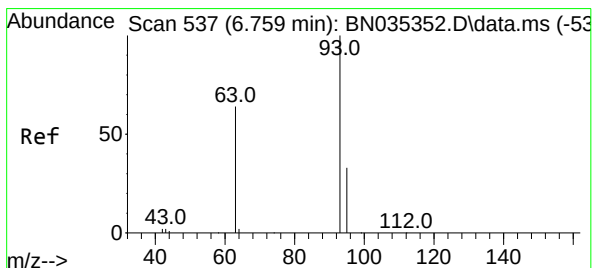
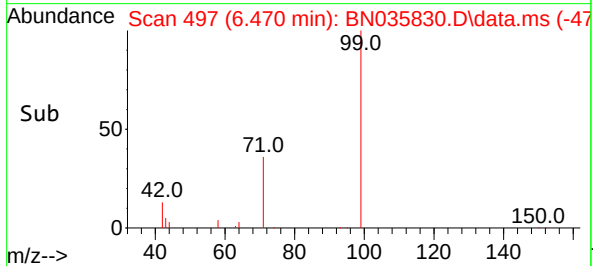
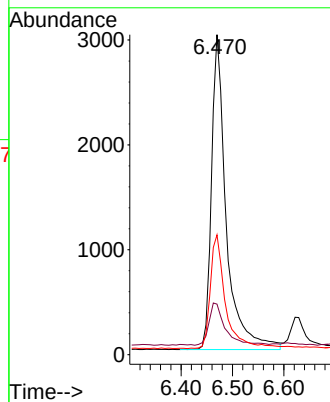
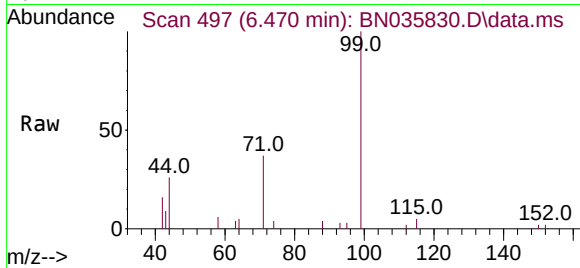
#5
Phenol-d6
Concen: 0.516 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 600
Ion Ratio Lower Upper
99 100
42 14.8 11.4 17.2
71 37.8 29.3 43.9

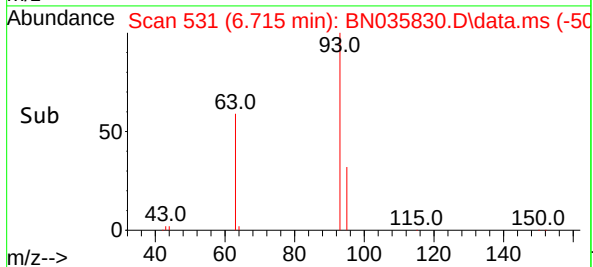
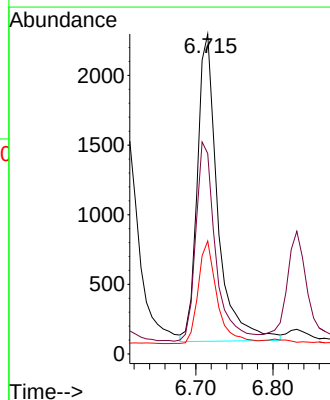
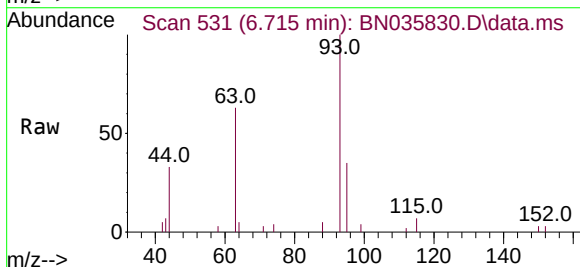
Manual Integrations
APPROVED

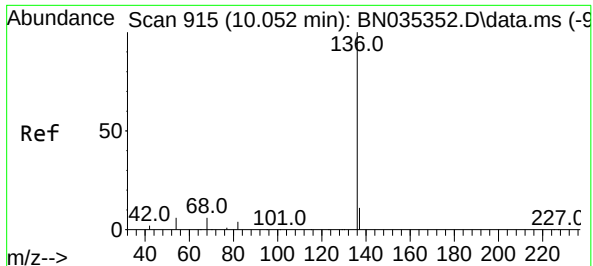
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 93 Resp: 4053
Ion Ratio Lower Upper
93 100
63 63.1 50.4 75.6
95 31.0 25.7 38.5





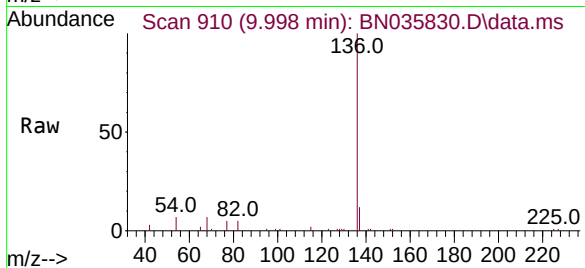
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

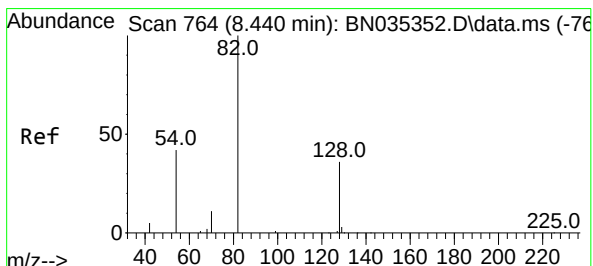
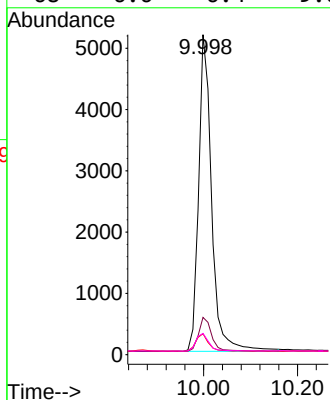
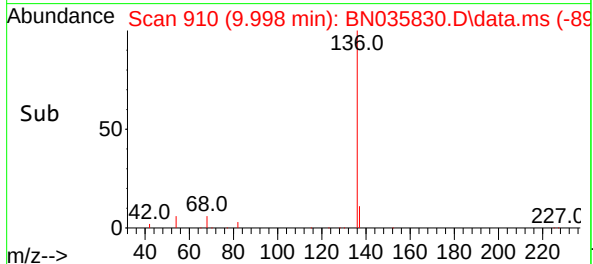


Tgt Ion: 136 Resp: 995
Ion Ratio Lower Upper
136 100
137 11.6 10.2 15.2
54 6.6 6.1 9.1
68 6.6 6.4 9.6

Manual Integrations

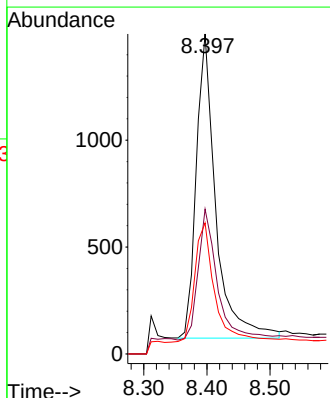
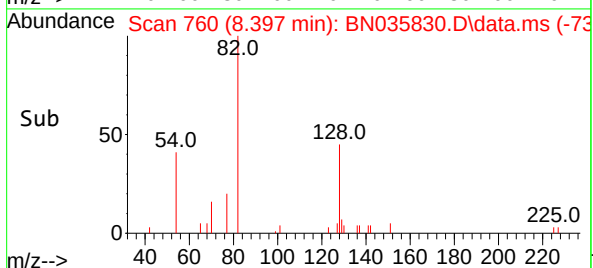
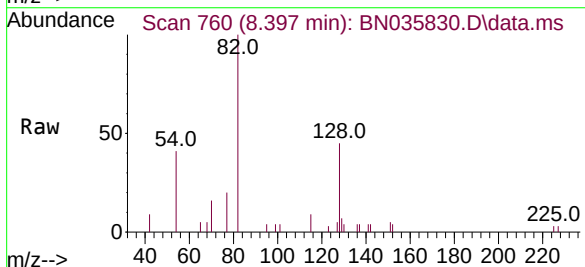
APPROVED

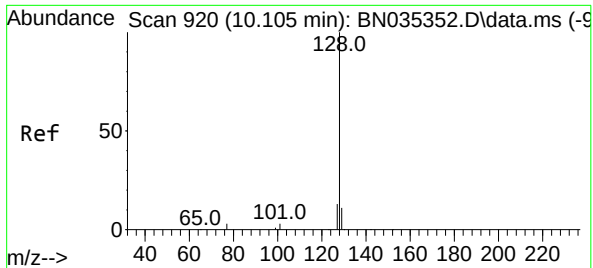
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.504 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 82 Resp: 3063
Ion Ratio Lower Upper
82 100
128 45.2 33.4 50.0
54 40.9 36.7 55.1





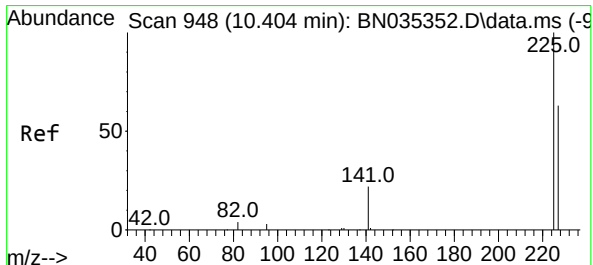
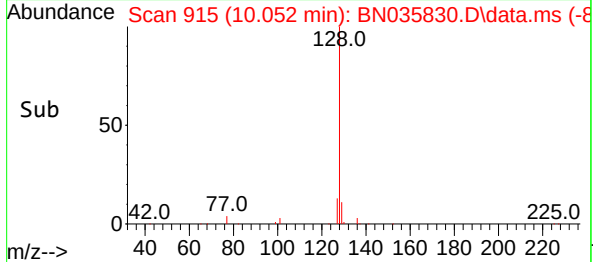
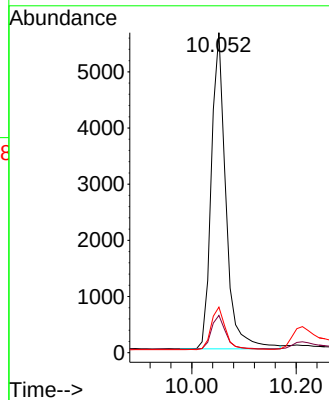
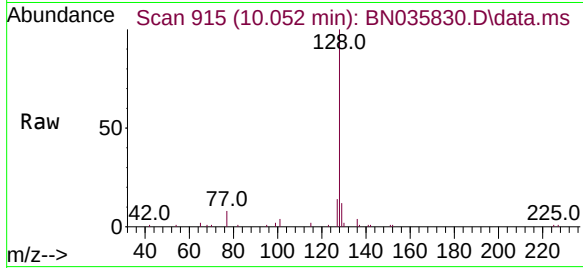
#9
Naphthalene
Concen: 0.413 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 1085
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.3 11.4 17.2

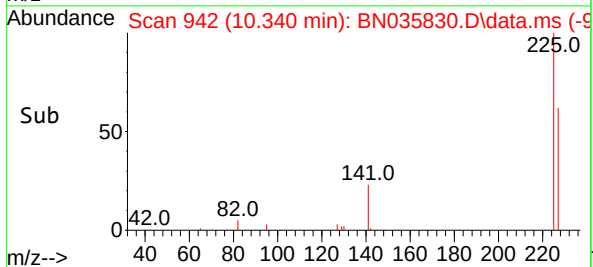
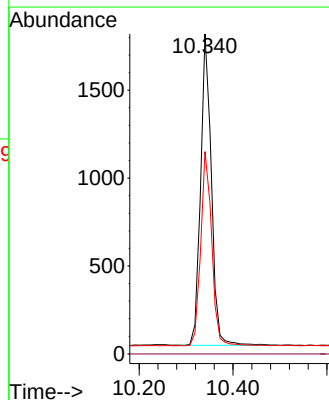
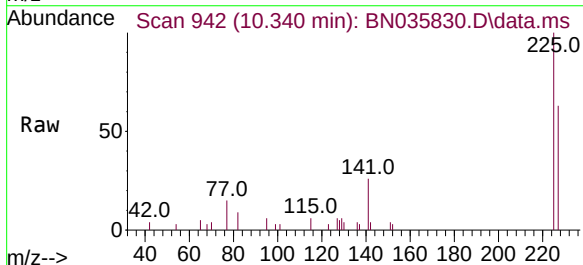
Manual Integrations
APPROVED

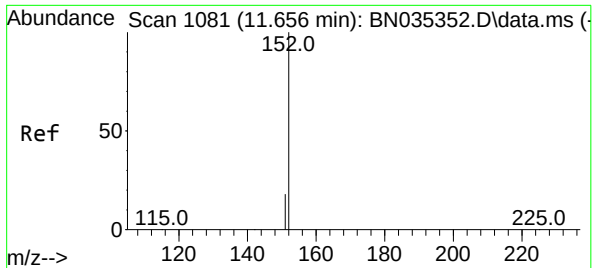
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

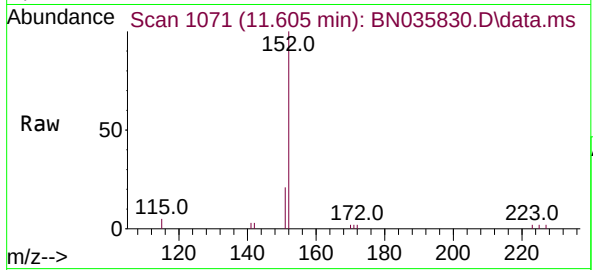
Tgt Ion:225 Resp: 2815
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

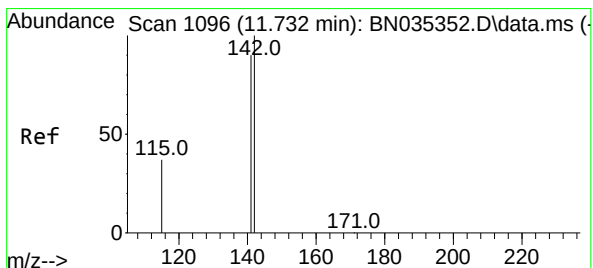
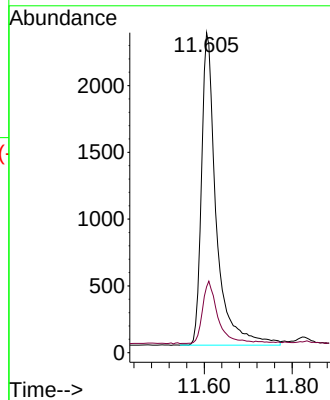
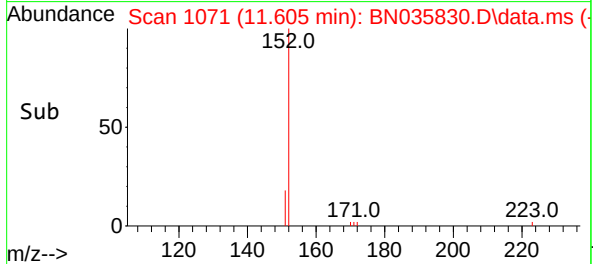
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 548
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

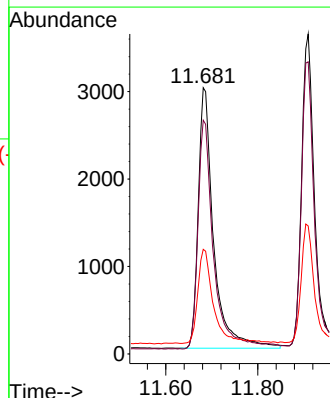
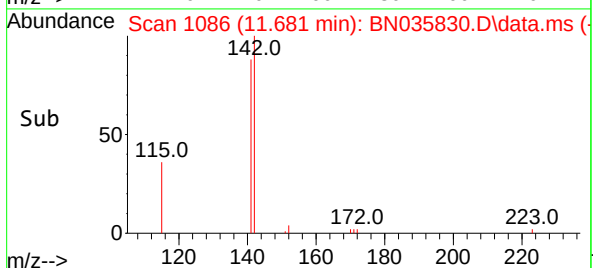
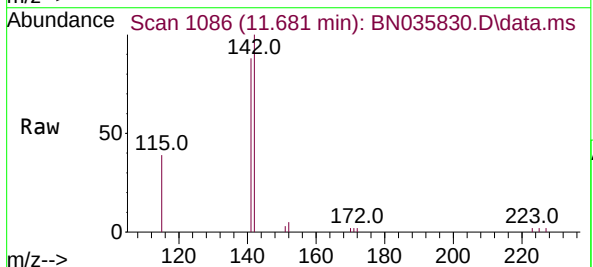
Manual Integrations
APPROVED

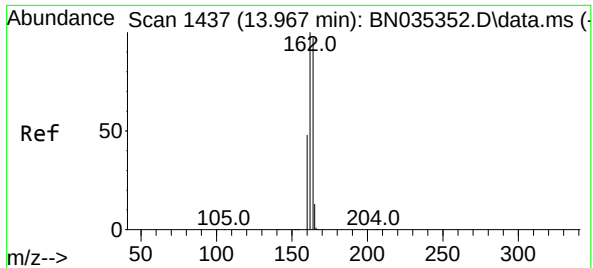
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

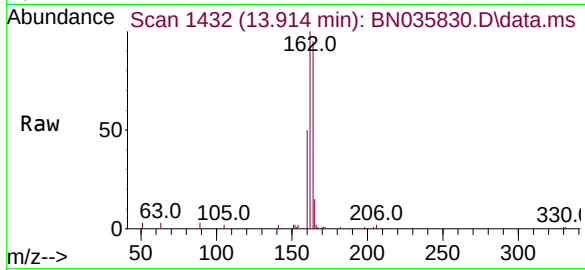
Tgt Ion:142 Resp: 6938
Ion Ratio Lower Upper
142 100
141 87.8 72.2 108.4
115 39.3 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

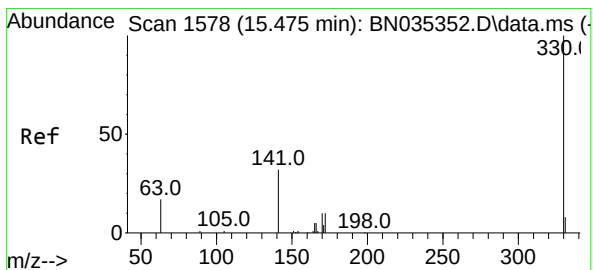
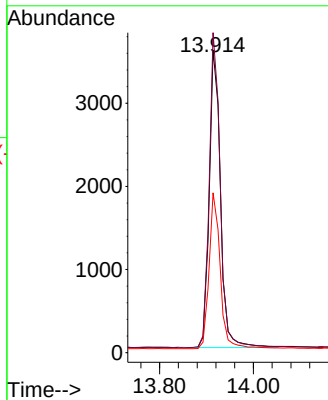
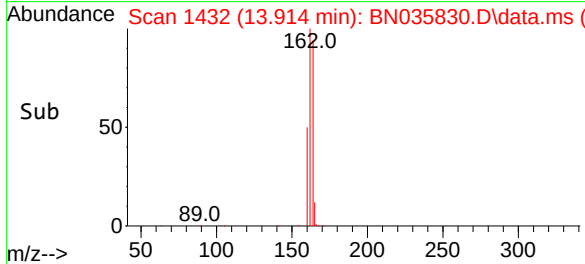
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 5950
Ion Ratio Lower Upper
164 100
162 105.8 82.2 123.2
160 52.9 40.1 60.1

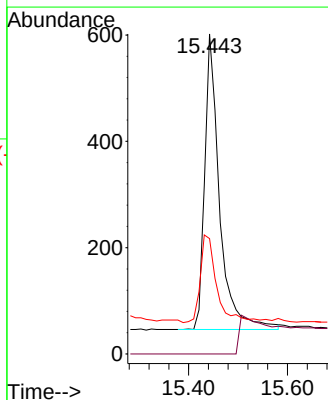
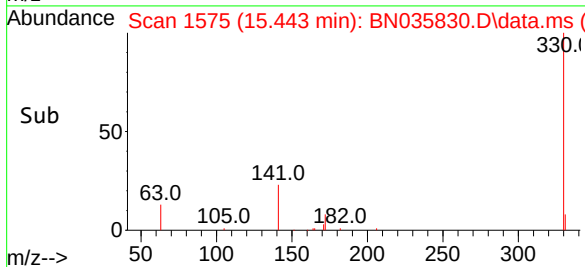
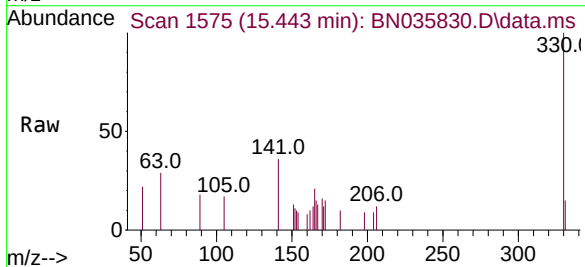
Manual Integrations
APPROVED

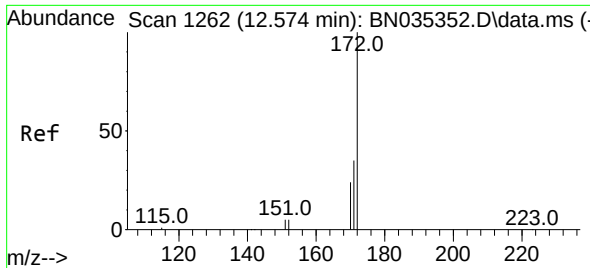
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:330 Resp: 1203
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.3 26.6 40.0





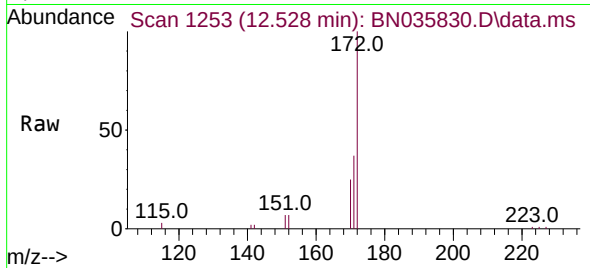
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



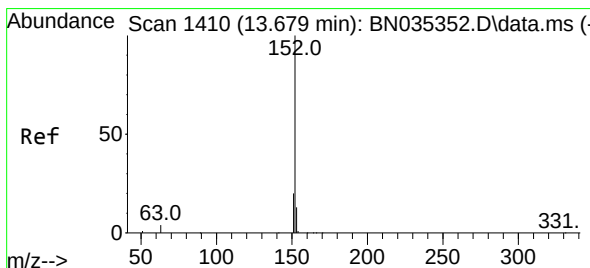
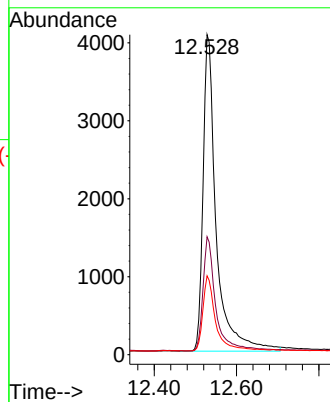
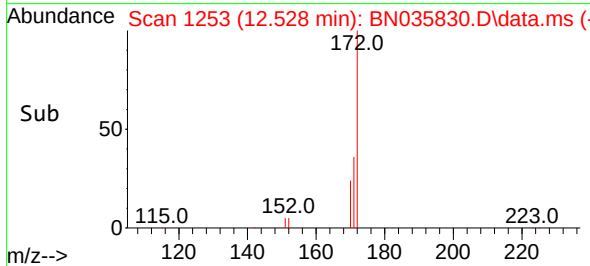
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.0	43.4
170	24.7	19.8	29.8

Manual Integrations

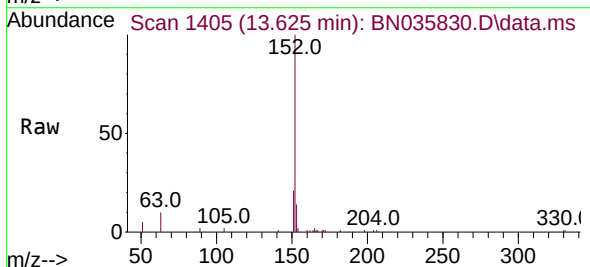
APPROVED

Reviewed By :Yogesh Patel 12/25/2024

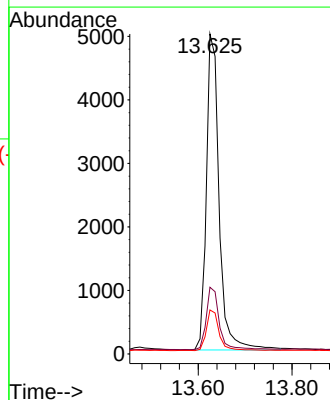
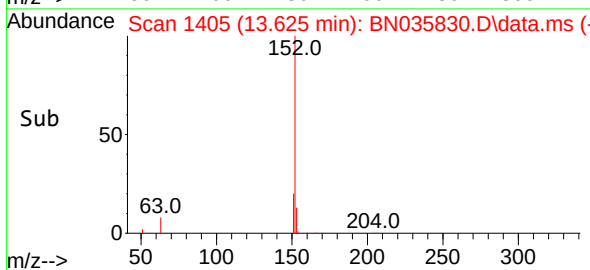
Supervised By :mohammad ahmed 12/26/2024

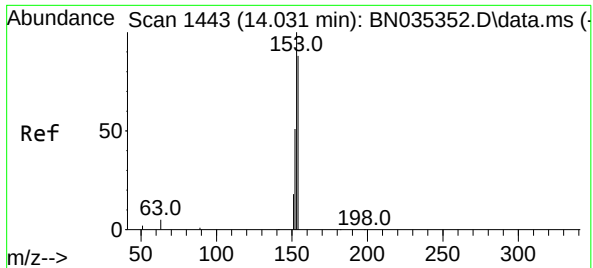


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55



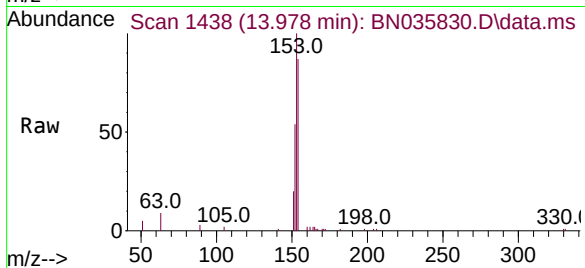
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	12.7	10.4	15.6





#17
Acenaphthene
Concen: 0.393 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

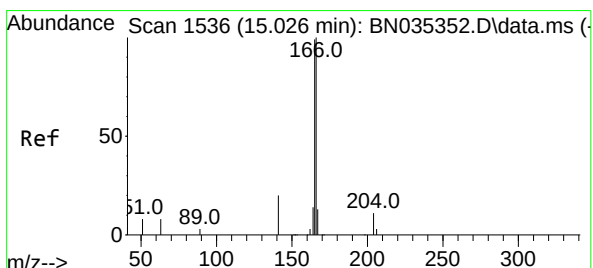
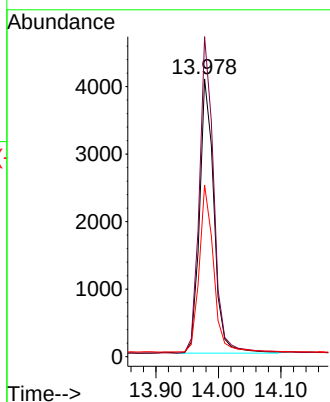
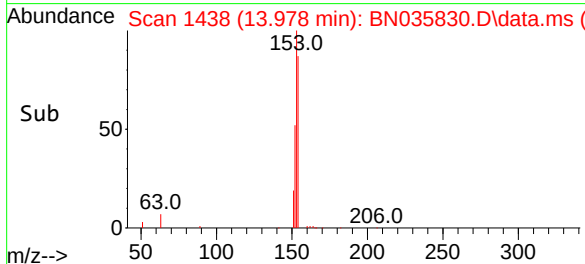
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 653
Ion Ratio Lower Upper
154 100
153 115.7 92.6 139.0
152 60.6 49.0 73.6

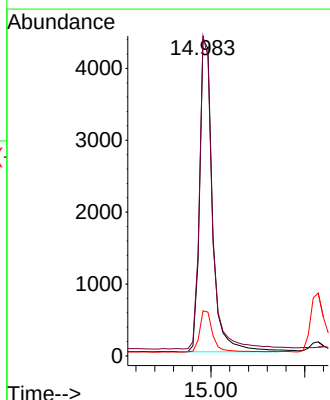
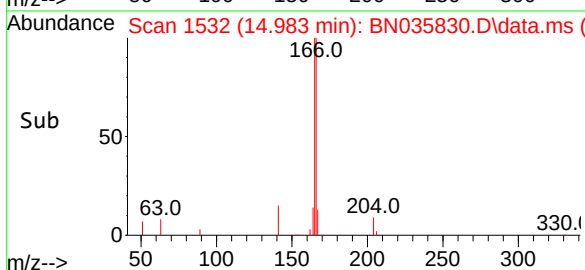
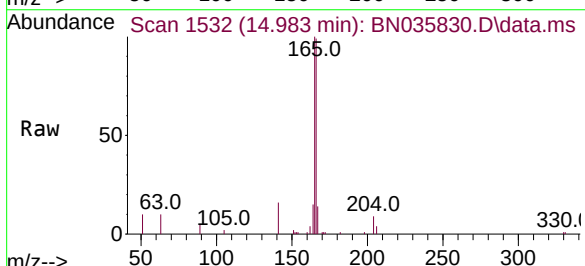
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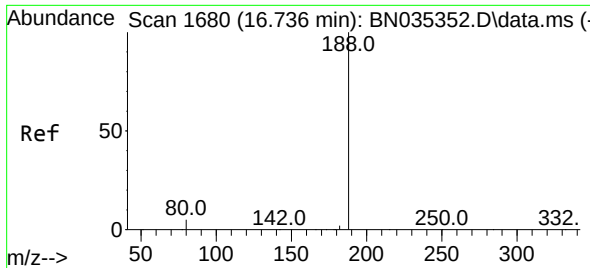
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:166 Resp: 8318
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.4 10.8 16.2





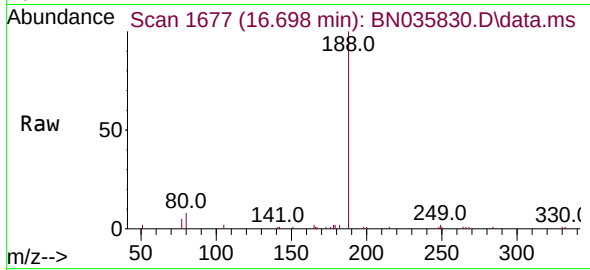
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



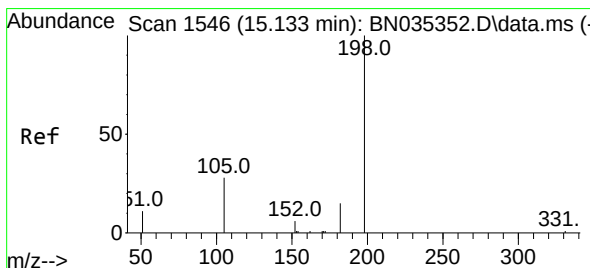
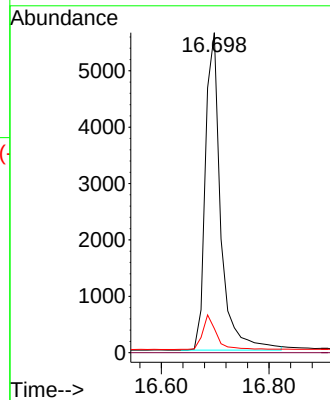
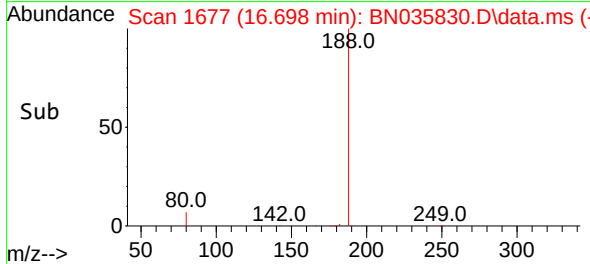
Tgt Ion:188 Resp: 1114
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.6 4.6 6.8

Manual Integrations

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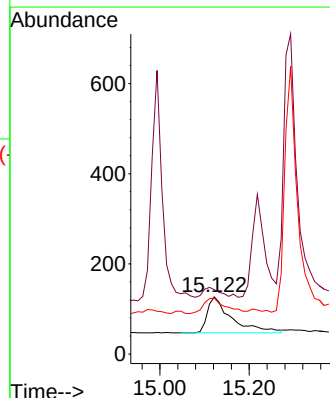
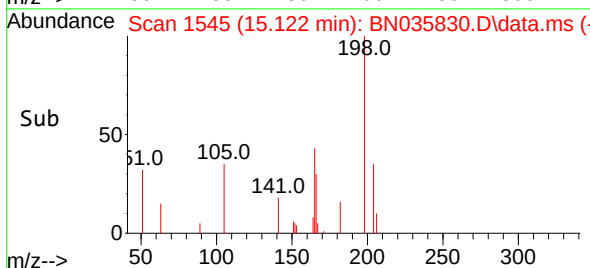
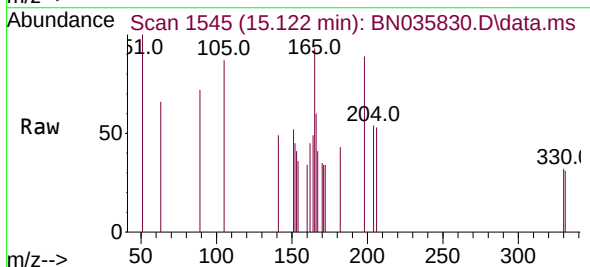
Reviewed By :Yogesh Patel 12/25/2024

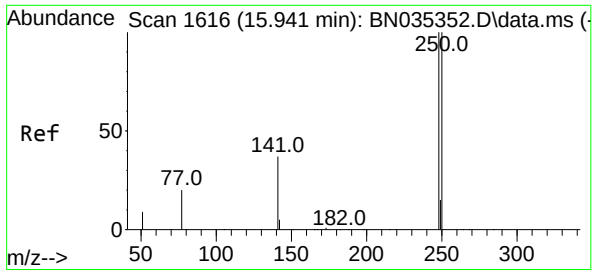
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.275 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:198 Resp: 301
Ion Ratio Lower Upper
198 100
51 112.6 46.5 69.7#
105 97.6 45.3 67.9#





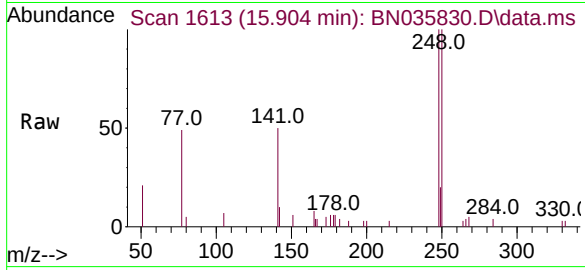
#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



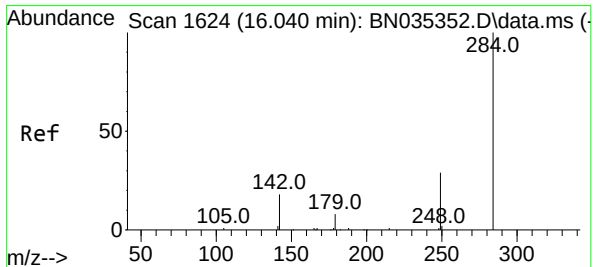
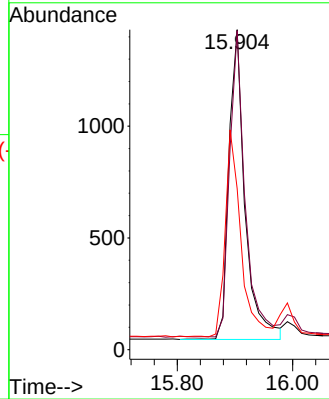
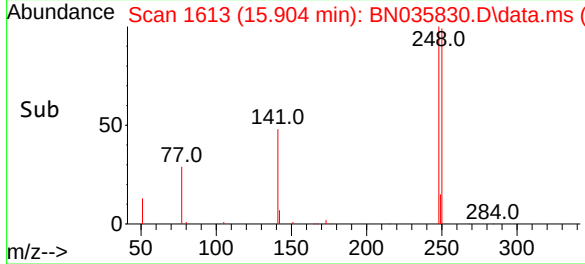
Tgt Ion:248 Resp: 267
Ion Ratio Lower Upper
248 100
250 99.7 80.6 120.8
141 50.3 31.5 47.3

Manual Integrations

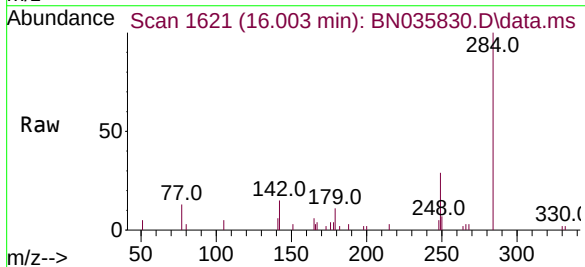
APPROVED

Reviewed By :Yogesh Patel 12/25/2024

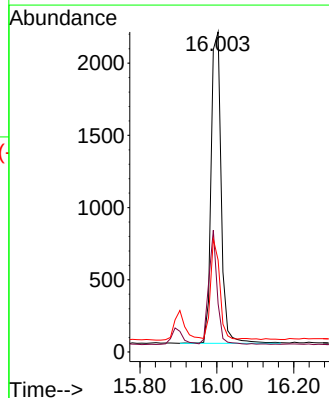
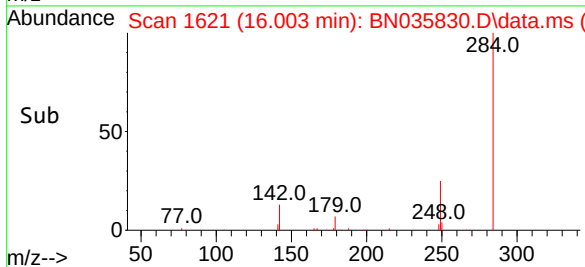
Supervised By :mohammad ahmed 12/26/2024

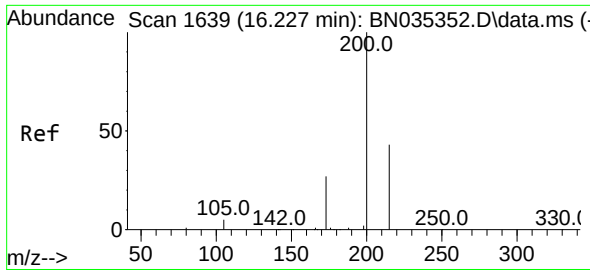


#22
Hexachlorobenzene
Concen: 0.510 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55



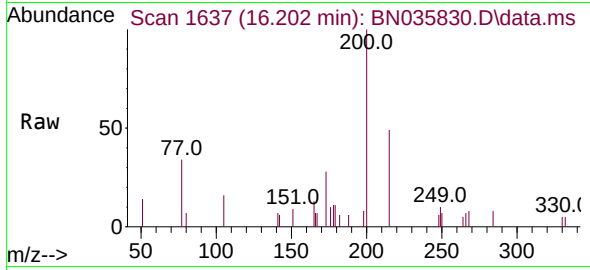
Tgt Ion:284 Resp: 3900
Ion Ratio Lower Upper
284 100
142 30.4 26.7 40.1
249 29.3 24.6 36.8





#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

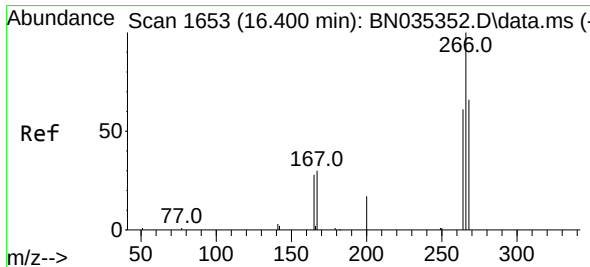
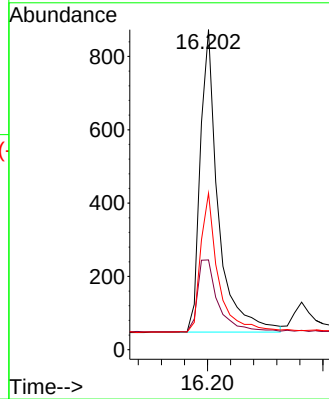
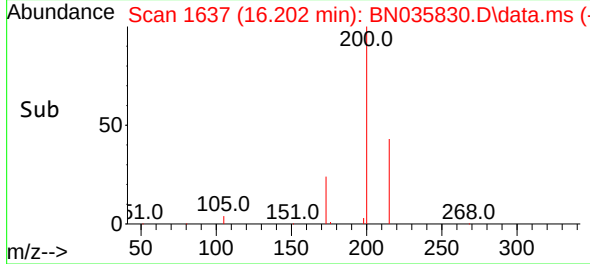
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1790
Ion Ratio Lower Upper
200 100
173 28.1 24.1 36.1
215 48.9 36.9 55.3

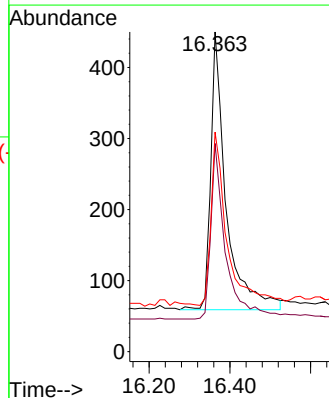
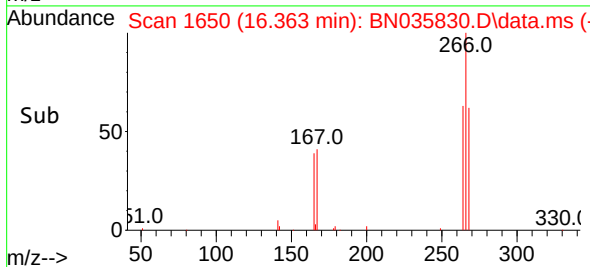
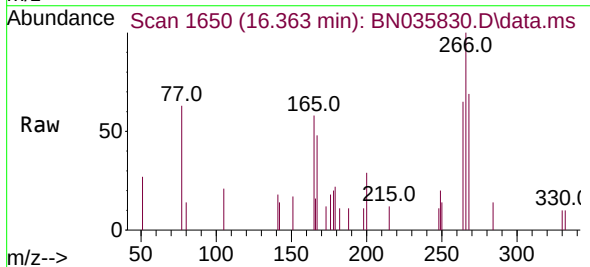
Manual Integrations
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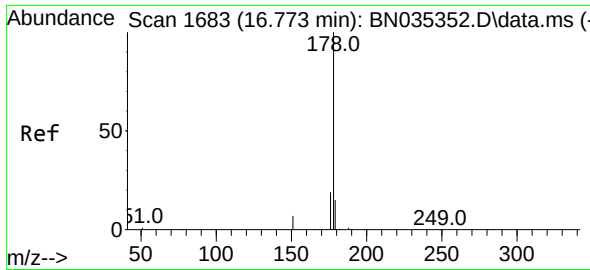
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.310 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

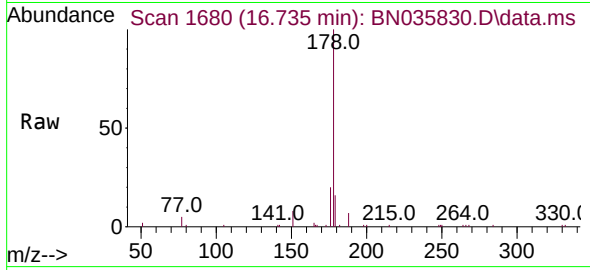
Tgt Ion:266 Resp: 1032
Ion Ratio Lower Upper
266 100
264 60.9 42.3 63.5
268 63.5 43.3 64.9





#25
Phenanthrene
Concen: 0.376 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

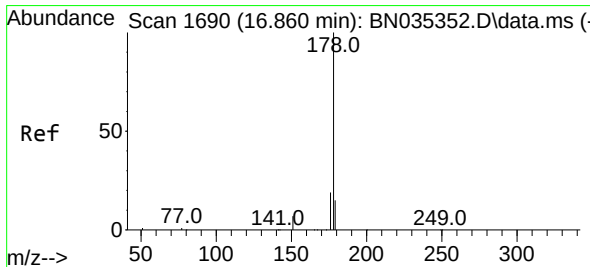
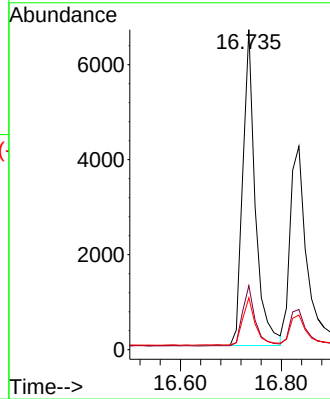
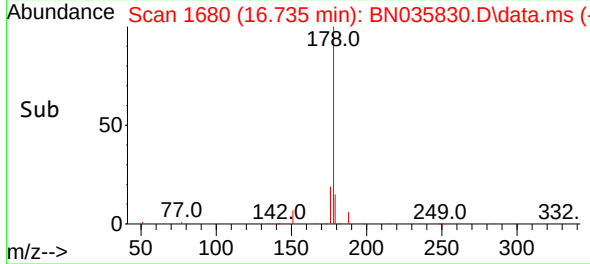
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 1152
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.6 12.3 18.5

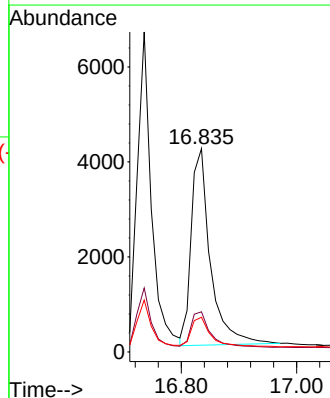
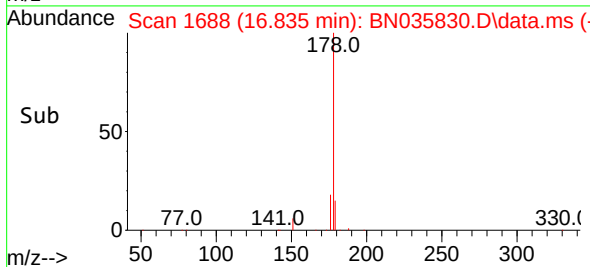
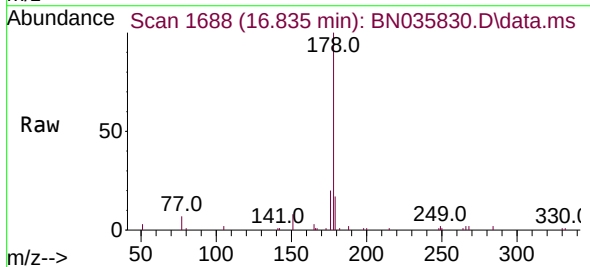
Manual Integrations
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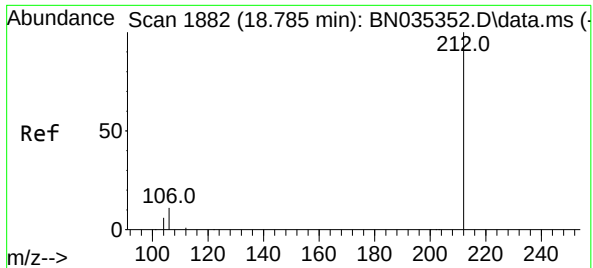
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

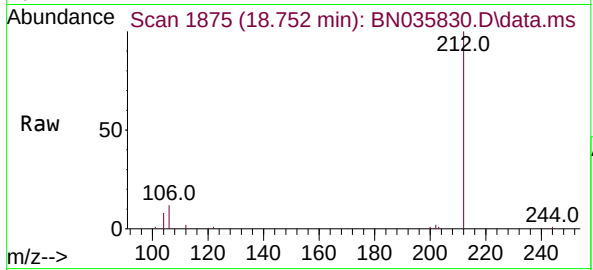
Tgt Ion:178 Resp: 9576
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.6 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.335 ng m
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

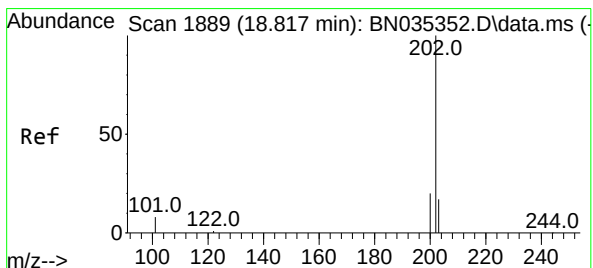
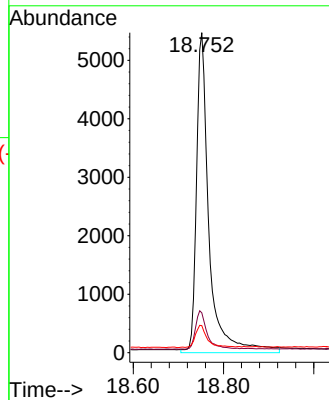
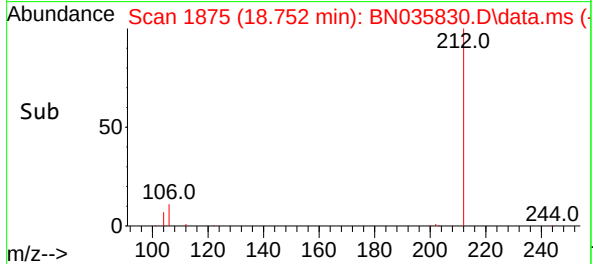
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:212 Resp: 1059
Ion Ratio Lower Upper
212 100
106 11.1 9.2 13.8
104 6.7 5.3 7.9

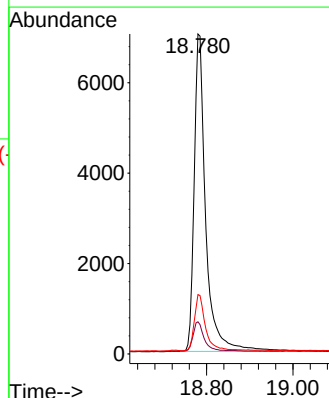
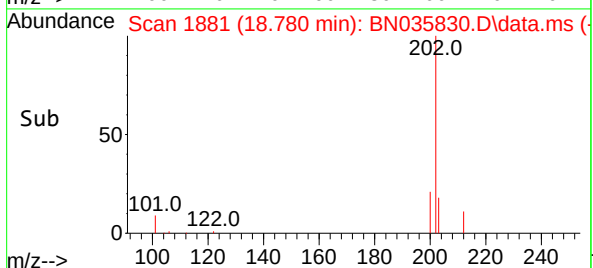
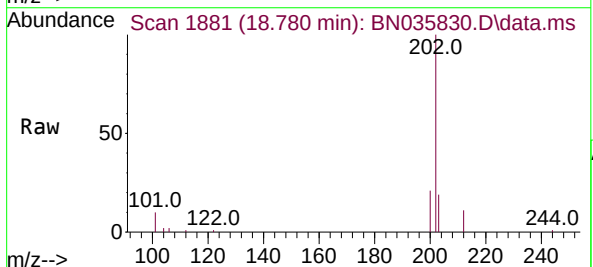
Manual Integrations
APPROVED

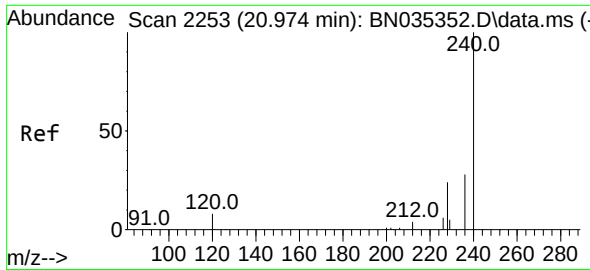
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.316 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13046
Ion Ratio Lower Upper
202 100
101 8.9 7.4 11.0
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

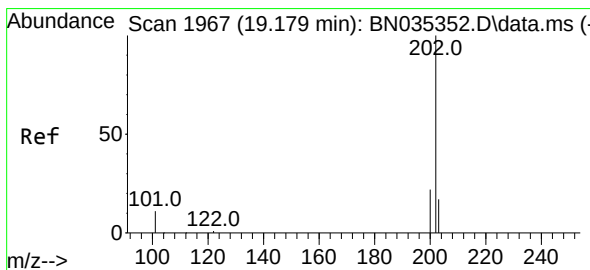
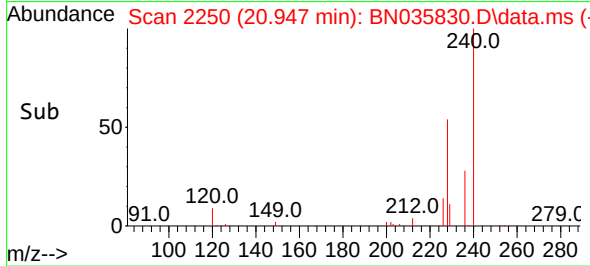
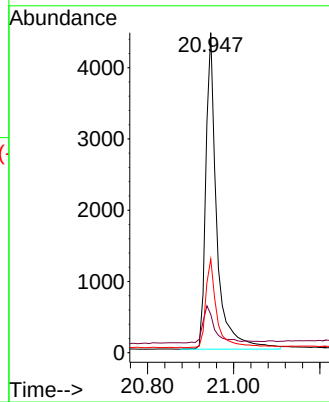
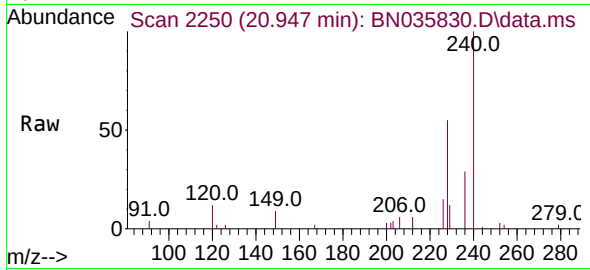
Tgt Ion:	240	Resp:	785
Ion Ratio	Lower	Upper	
240	100		
120	11.9	7.9	11.9
236	29.3	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.454 ng

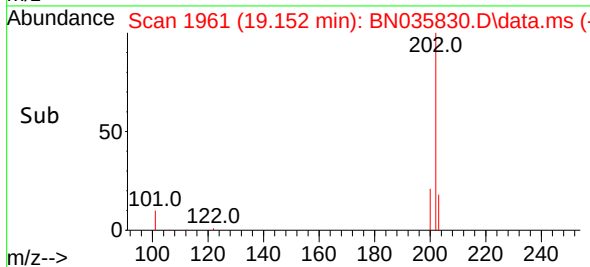
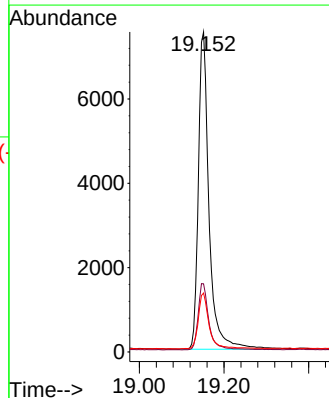
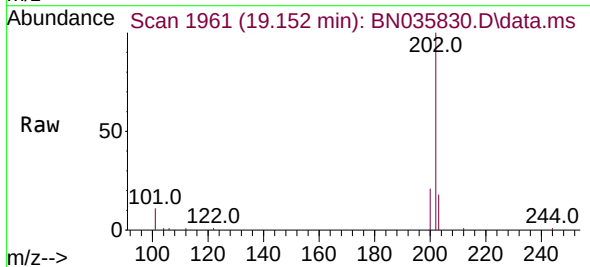
RT: 19.152 min Scan# 1961

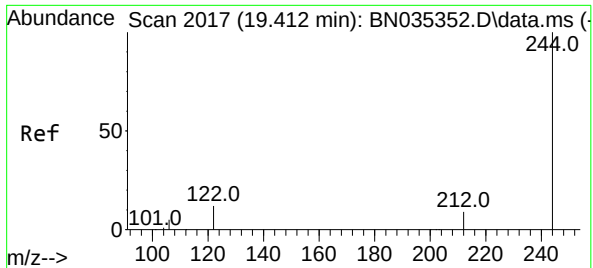
Delta R.T. -0.009 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Tgt Ion:	202	Resp:	13156
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.0	25.4
203	17.9	14.3	21.5





#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.384 min Scan# 2011
Delta R.T. -0.005 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

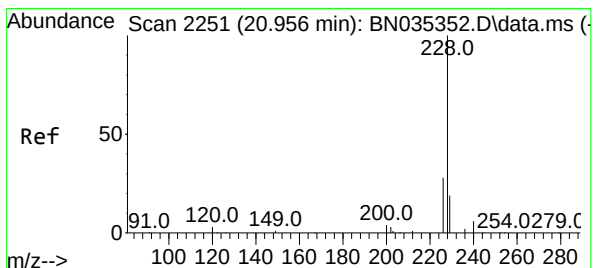
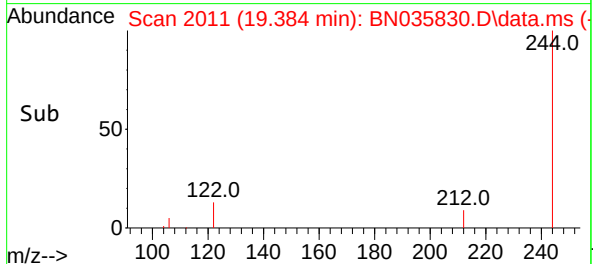
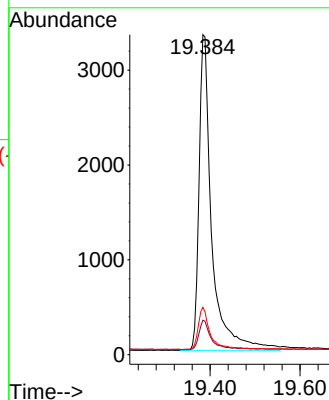
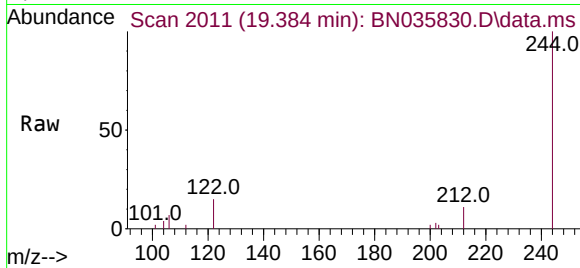
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	14.8	10.3	15.5

Manual Integrations

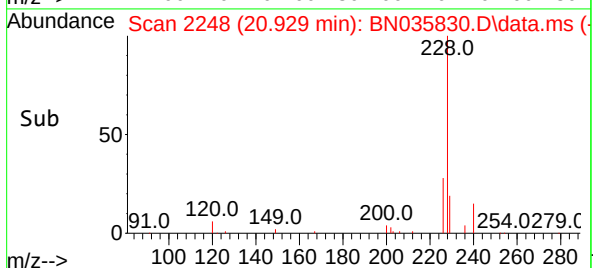
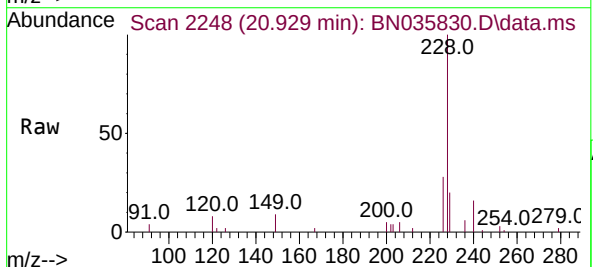
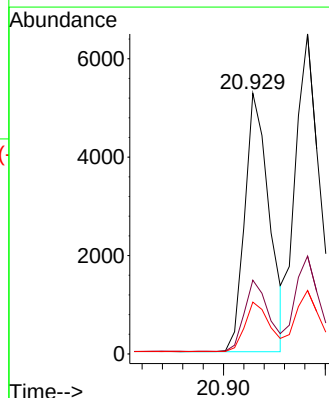
APPROVED

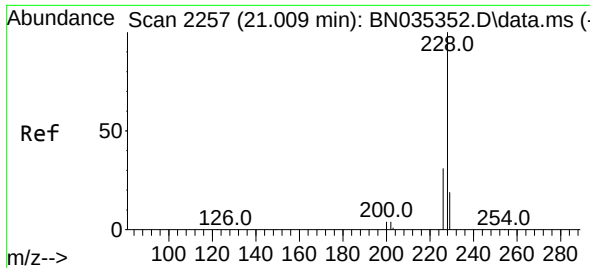
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.320 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	19.9	15.8	23.8





#33

Chrysene

Concen: 0.430 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

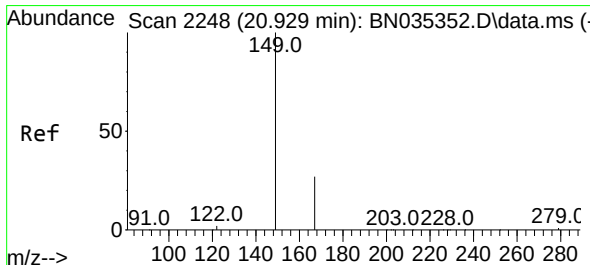
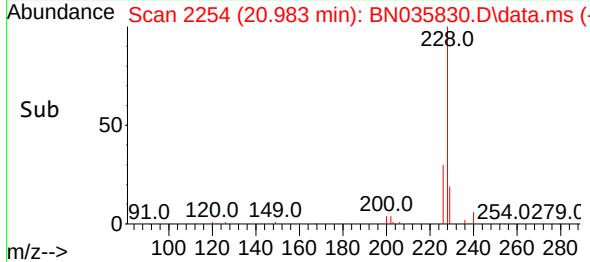
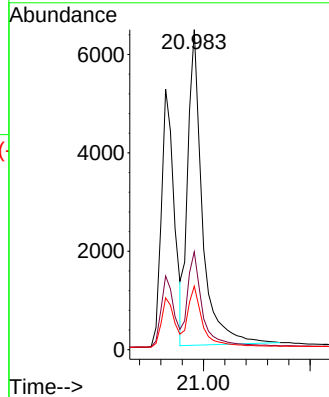
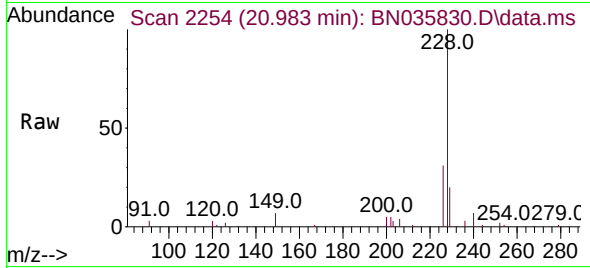
Tgt Ion:228	Resp:	12184
Ion Ratio	Lower	Upper
228	100	
226	30.6	24.6 37.0
229	19.9	15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.434 ng

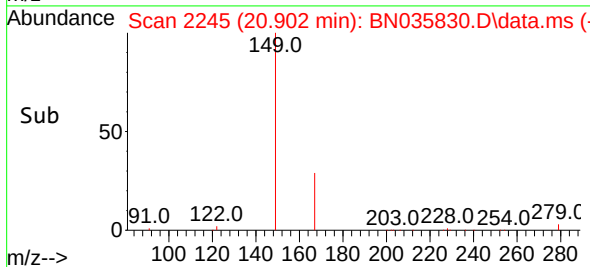
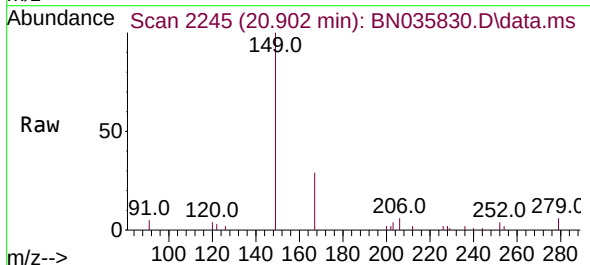
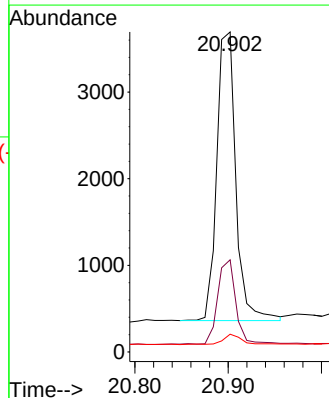
RT: 20.902 min Scan# 2245

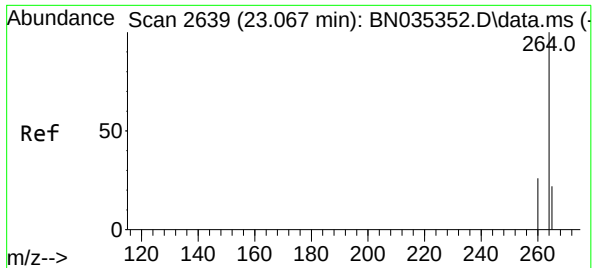
Delta R.T. -0.009 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

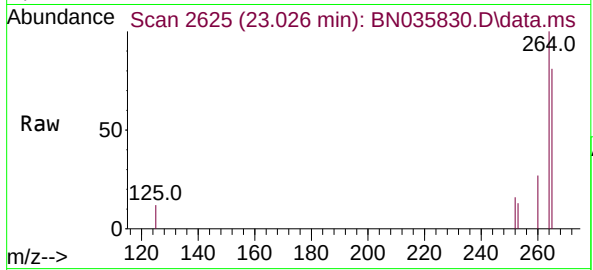
Tgt Ion:149	Resp:	4711
Ion Ratio	Lower	Upper
149	100	
167	27.7	22.2 33.4
279	3.7	2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

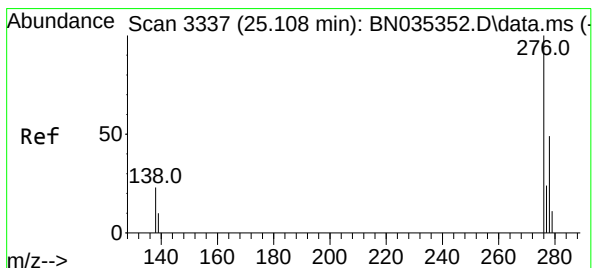
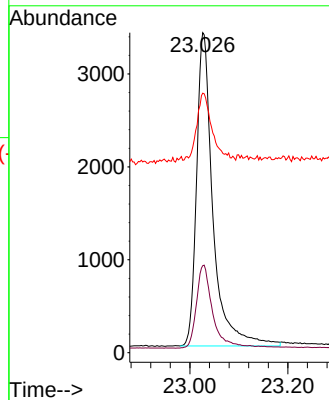
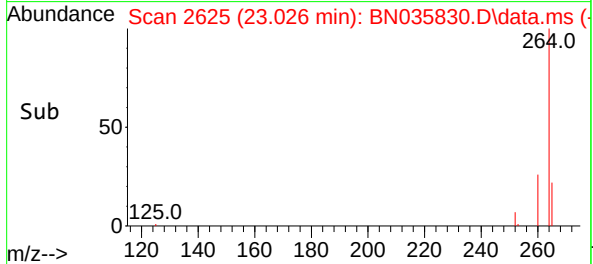
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 7870
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 81.1 40.2 60.4

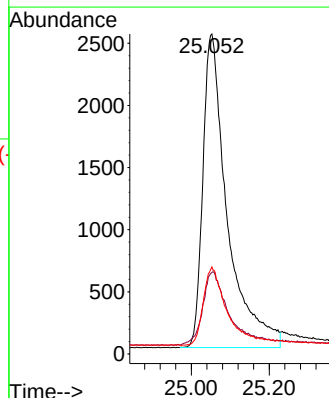
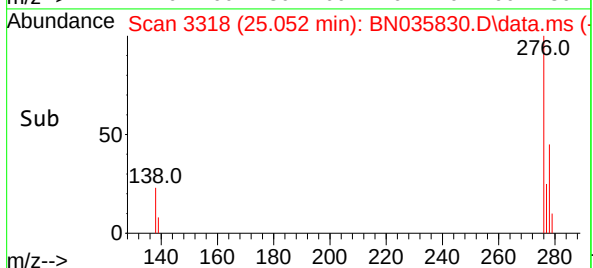
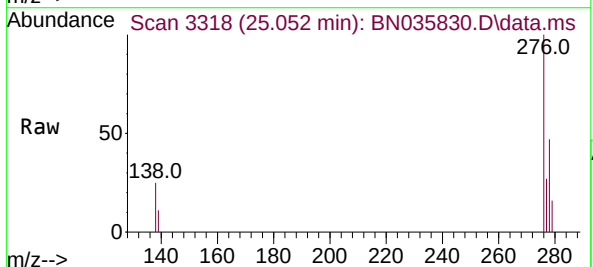
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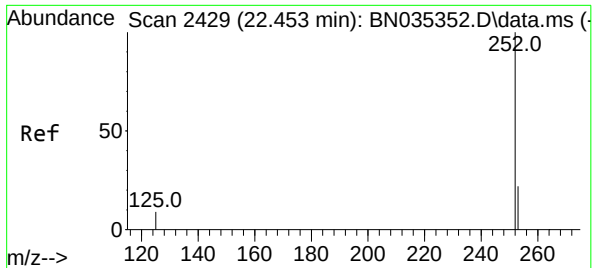
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 10972
Ion Ratio Lower Upper
276 100
138 24.1 19.4 29.0
277 23.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.501 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035830.D

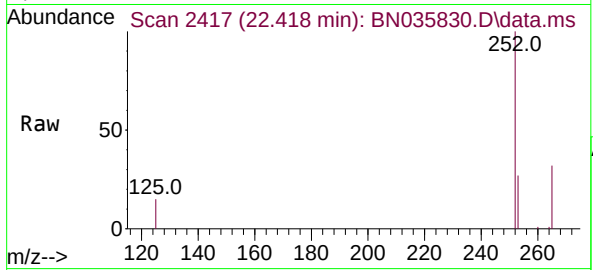
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 14430

Ion Ratio Lower Upper

252 100

253 26.6 19.6 29.4

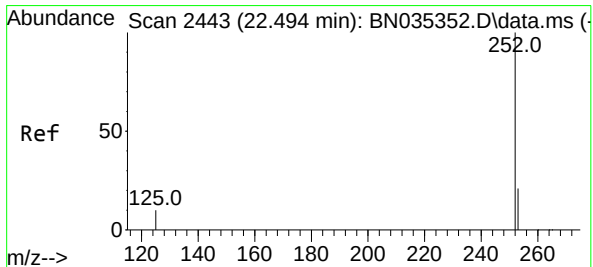
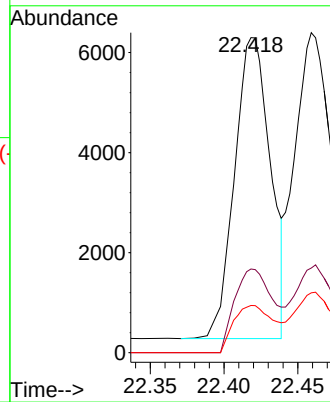
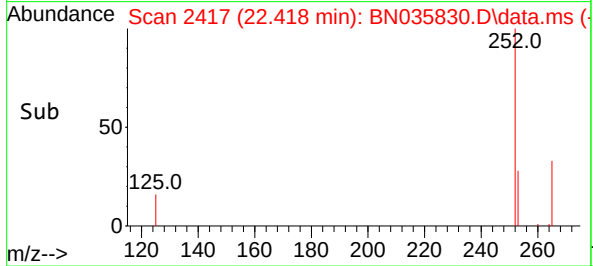
125 15.0 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

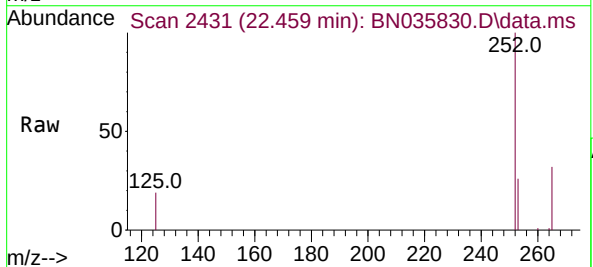
Concen: 0.443 ng m

RT: 22.459 min Scan# 2431

Delta R.T. -0.012 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55



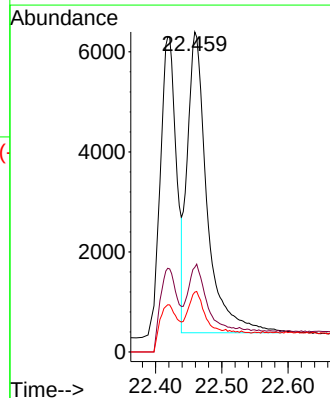
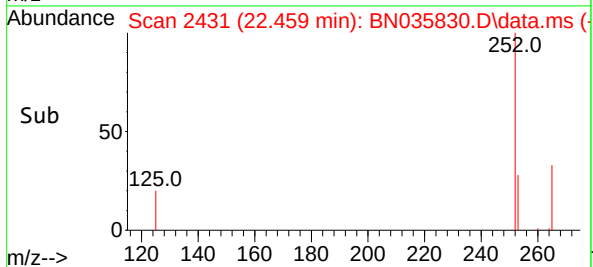
Tgt Ion:252 Resp: 12555

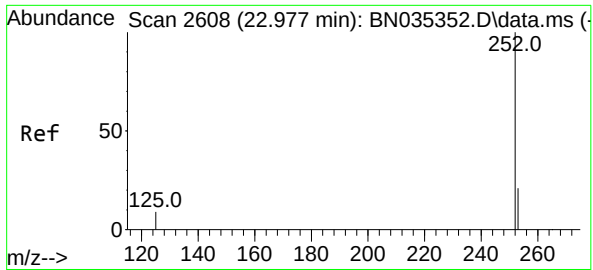
Ion Ratio Lower Upper

252 100

253 26.5 19.5 29.3

125 18.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.374 ng

RT: 22.942 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

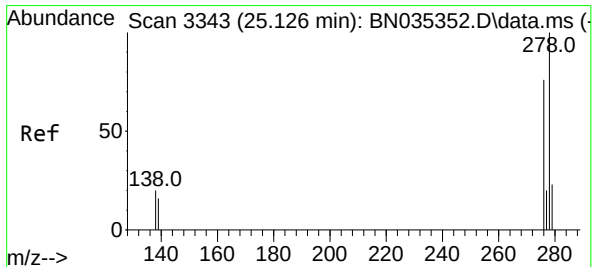
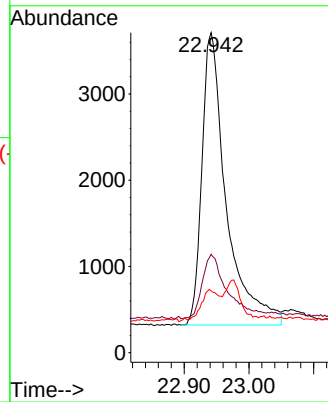
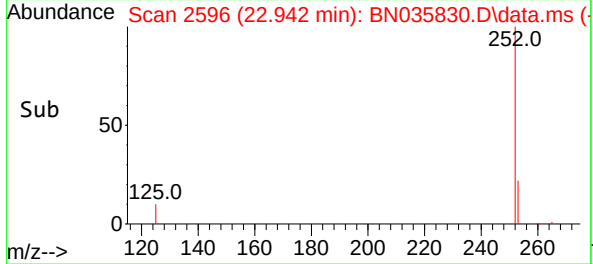
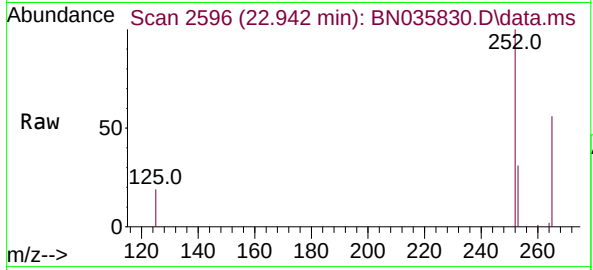
Tgt Ion:	252	Resp:	886
Ion Ratio	Lower	Upper	
252	100		
253	30.7	20.2	30.4
125	19.3	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.321 ng

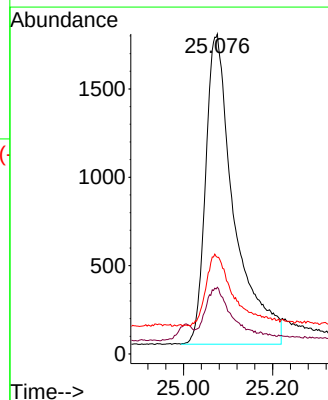
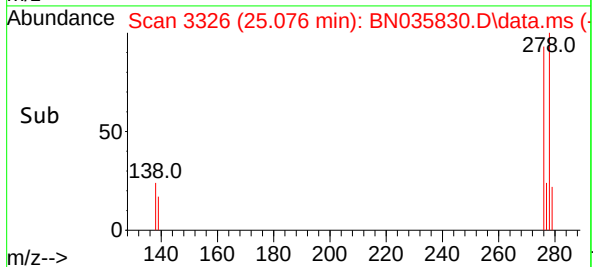
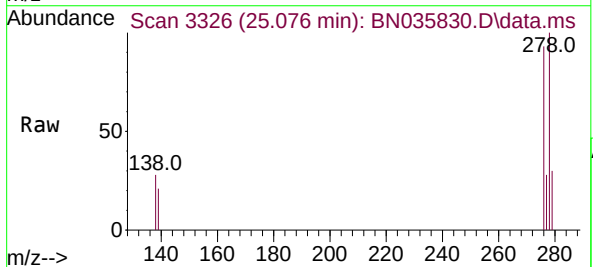
RT: 25.076 min Scan# 3326

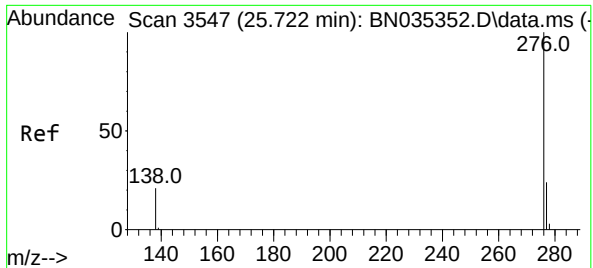
Delta R.T. -0.006 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Tgt Ion:	278	Resp:	7792
Ion Ratio	Lower	Upper	
278	100		
139	20.9	14.2	21.4
279	30.2	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 25.661 min Scan# 3

Delta R.T. -0.018 min

Lab File: BN035830.D

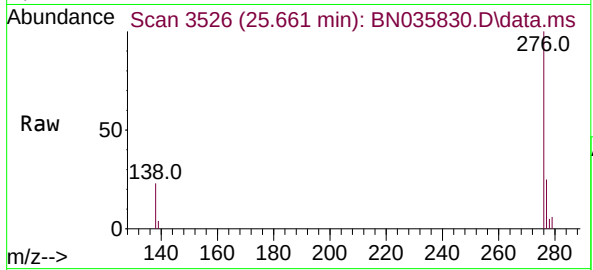
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 10218

Ion Ratio Lower Upper

276 100

277 24.8 19.9 29.9

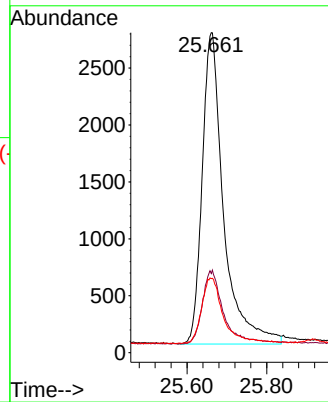
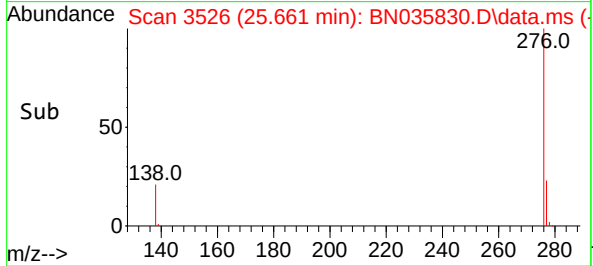
138 23.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035830.D
 Acq On : 24 Dec 2024 20:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 23:55:02 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

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	189#	-0.01
2	1,4-Dioxane	0.382	0.490	-28.3#	246#	0.00
3	n-Nitrosodimethylamine	0.319	0.301	5.6	174#	0.00
4 S	2-Fluorophenol	1.001	0.909	9.2	169#	-0.01
5 S	Phenol-d6	1.204	1.553	-29.0#	246#	-0.02
6	bis(2-Chloroethyl)ether	1.012	1.048	-3.6	199#	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	190#	-0.02
8 S	Nitrobenzene-d5	0.244	0.308	-26.2#	249#	-0.01
9	Naphthalene	1.055	1.090	-3.3	198#	-0.01
10	Hexachlorobutadiene	0.243	0.283	-16.5	218#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.551	12.0	169#	-0.02
12	2-Methylnaphthalene	0.755	0.697	7.7	179#	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	157#	-0.02
14 S	2,4,6-Tribromophenol	0.284	0.202	28.9#	123	-0.01
15 S	2-Fluorobiphenyl	1.512	1.517	-0.3	158#	-0.02
16	Acenaphthylene	1.680	1.576	6.2	155#	-0.02
17	Acenaphthene	1.115	1.097	1.6	158#	-0.02
18	Fluorene	1.596	1.397	12.5	142	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.027	30.8#	89	0.00
21	4-Bromophenyl-phenylether	0.234	0.240	-2.6	125	-0.01
22	Hexachlorobenzene	0.275	0.350	-27.3#	151#	-0.01
23	Atrazine	0.167	0.161	3.6	123	0.00
24	Pentachlorophenol	0.120	0.093	22.5	114	-0.01
25	Phenanthrene	1.099	1.034	5.9	114	-0.01
26	Anthracene	0.994	0.859	13.6	107	0.00
27 SURR	Fluoranthene-d10	1.134	0.951	16.1	104	0.00
28	Fluoranthene	1.481	1.171	20.9	97	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30	Pyrene	1.477	1.676	-13.5	94	0.00
31 S	Terphenyl-d14	0.789	0.833	-5.6	87	0.00
32	Benzo(a)anthracene	1.399	1.118	20.1	68	0.00
33	Chrysene	1.443	1.552	-7.6	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.600	-8.5	96	0.00
35 I	Perylene-d12	1.000	1.000	0.0	73	-0.01
36	Indeno(1,2,3-cd)pyrene	1.564	1.394	10.9	66	-0.01
37	Benzo(b)fluoranthene	1.463	1.834	-25.4#	101	-0.01
38	Benzo(k)fluoranthene	1.440	1.595	-10.8	83	-0.01
39 C	Benzo(a)pyrene	1.205	1.126	6.6	71	0.00
40	Dibenzo(a,h)anthracene	1.234	0.990	19.8	60	0.00
41	Benzo(g,h,i)perylene	1.289	1.298	-0.7	76	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035830.D
 Acq On : 24 Dec 2024 20:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 23:55:02 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

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	189	-0.01
2	1,4-Dioxane	0.400	0.513	-28.2#	246	0.00
3	n-Nitrosodimethylamine	0.400	0.377	5.8	174	0.00
4 S	2-Fluorophenol	0.400	0.363	9.3	169	-0.01
5 S	Phenol-d6	0.400	0.516	-29.0#	246	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.415	-3.7	199	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	190	-0.02
8 S	Nitrobenzene-d5	0.400	0.504	-26.0#	249	-0.01
9	Naphthalene	0.400	0.413	-3.2	198	-0.01
10	Hexachlorobutadiene	0.400	0.465	-16.3	218	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	169	-0.02
12	2-Methylnaphthalene	0.400	0.369	7.8	179	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	157	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.285	28.8#	123	-0.01
15 S	2-Fluorobiphenyl	0.400	0.401	-0.3	158	-0.02
16	Acenaphthylene	0.400	0.375	6.3	155	-0.02
17	Acenaphthene	0.400	0.393	1.8	158	-0.02
18	Fluorene	0.400	0.350	12.5	142	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.275	31.3#	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.411	-2.7	125	-0.01
22	Hexachlorobenzene	0.400	0.510	-27.5#	151	-0.01
23	Atrazine	0.400	0.386	3.5	123	0.00
24	Pentachlorophenol	0.400	0.310	22.5	114	-0.01
25	Phenanthrene	0.400	0.376	6.0	114	-0.01
26	Anthracene	0.400	0.346	13.5	107	0.00
27 SURR	Fluoranthene-d10	0.400	0.335	16.3	104	0.00
28	Fluoranthene	0.400	0.316	21.0	97	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30	Pyrene	0.400	0.454	-13.5	94	0.00
31 S	Terphenyl-d14	0.400	0.422	-5.5	87	0.00
32	Benzo(a)anthracene	0.400	0.320	20.0	68	0.00
33	Chrysene	0.400	0.430	-7.5	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.434	-8.5	96	0.00
35 I	Perylene-d12	0.400	0.400	0.0	73	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.357	10.8	66	-0.01
37	Benzo(b)fluoranthene	0.400	0.501	-25.2#	101	-0.01
38	Benzo(k)fluoranthene	0.400	0.443	-10.7	83	-0.01
39 C	Benzo(a)pyrene	0.400	0.374	6.5	71	0.00
40	Dibenzo(a,h)anthracene	0.400	0.321	19.8	60	0.00
41	Benzo(g,h,i)perylene	0.400	0.403	-0.8	76	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/25/2024 05:14

Lab File ID: BN035843.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	0.525		-16.1	50.0
Fluoranthene-d10	1.134	0.959		-15.4	50.0
2-Fluorophenol	1.001	0.947		-5.4	50.0
Phenol-d6	1.204	1.574		30.7	50.0
Nitrobenzene-d5	0.244	0.351		43.9	50.0
2-Fluorobiphenyl	1.512	1.591		5.2	50.0
2,4,6-Tribromophenol	0.284	0.234		-17.6	50.0
Terphenyl-d14	0.789	0.810		2.7	50.0
1,4-Dioxane	0.382	0.510		33.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035843.D
 Acq On : 25 Dec 2024 05:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

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

Quant Time: Dec 25 07:05:57 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	5156	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	13078	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	6801	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	13499	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	10827	0.400	ng	#-0.02
35) Perylene-d12	23.023	264	11272	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	4881	0.378	ng	-0.01
5) Phenol-d6	6.470	99	8113	0.523	ng	-0.02
8) Nitrobenzene-d5	8.397	82	4586m	0.574	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	6864	0.335	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1590	0.329	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	10817	0.421	ng	-0.02
27) Fluoranthene-d10	18.747	212	12946	0.338	ng	-0.01
31) Terphenyl-d14	19.379	244	8772	0.411	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.974	88	2628	0.533	ng	99
3) n-Nitrosodimethylamine	3.270	42	1575	0.384	ng	# 83
6) bis(2-Chloroethyl)ether	6.708	93	6304	0.483	ng	99
9) Naphthalene	10.052	128	17615	0.511	ng	98
10) Hexachlorobutadiene	10.340	225	4448	0.559	ng	# 99
12) 2-Methylnaphthalene	11.681	142	8694	0.352	ng	98
16) Acenaphthylene	13.625	152	10564	0.370	ng	99
17) Acenaphthene	13.978	154	7280	0.384	ng	99
18) Fluorene	14.983	166	9290	0.342	ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	461	0.347	ng	# 44
21) 4-Bromophenyl-phenylether	15.904	248	2960	0.375	ng	96
22) Hexachlorobenzene	15.991	284	4352	0.469	ng	95
23) Atrazine	16.202	200	2032	0.362	ng	93
24) Pentachlorophenol	16.363	266	1431	0.355	ng	# 85
25) Phenanthrene	16.735	178	14253	0.384	ng	99
26) Anthracene	16.822	178	11727	0.350	ng	99
28) Fluoranthene	18.780	202	16856	0.337	ng	99
30) Pyrene	19.147	202	17619	0.441	ng	99
32) Benzo(a)anthracene	20.929	228	13110	0.346	ng	99
33) Chrysene	20.974	228	16237	0.416	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	5933	0.397	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15331	0.348	ng	99
37) Benzo(b)fluoranthene	22.412	252	25617	0.621	ng	# 96
38) Benzo(k)fluoranthene	22.453	252	18591m	0.458	ng	
39) Benzo(a)pyrene	22.936	252	12667	0.373	ng	# 90
40) Dibenzo(a,h)anthracene	25.061	278	11116	0.320	ng	94
41) Benzo(g,h,i)perylene	25.652	276	14070	0.387	ng	98

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

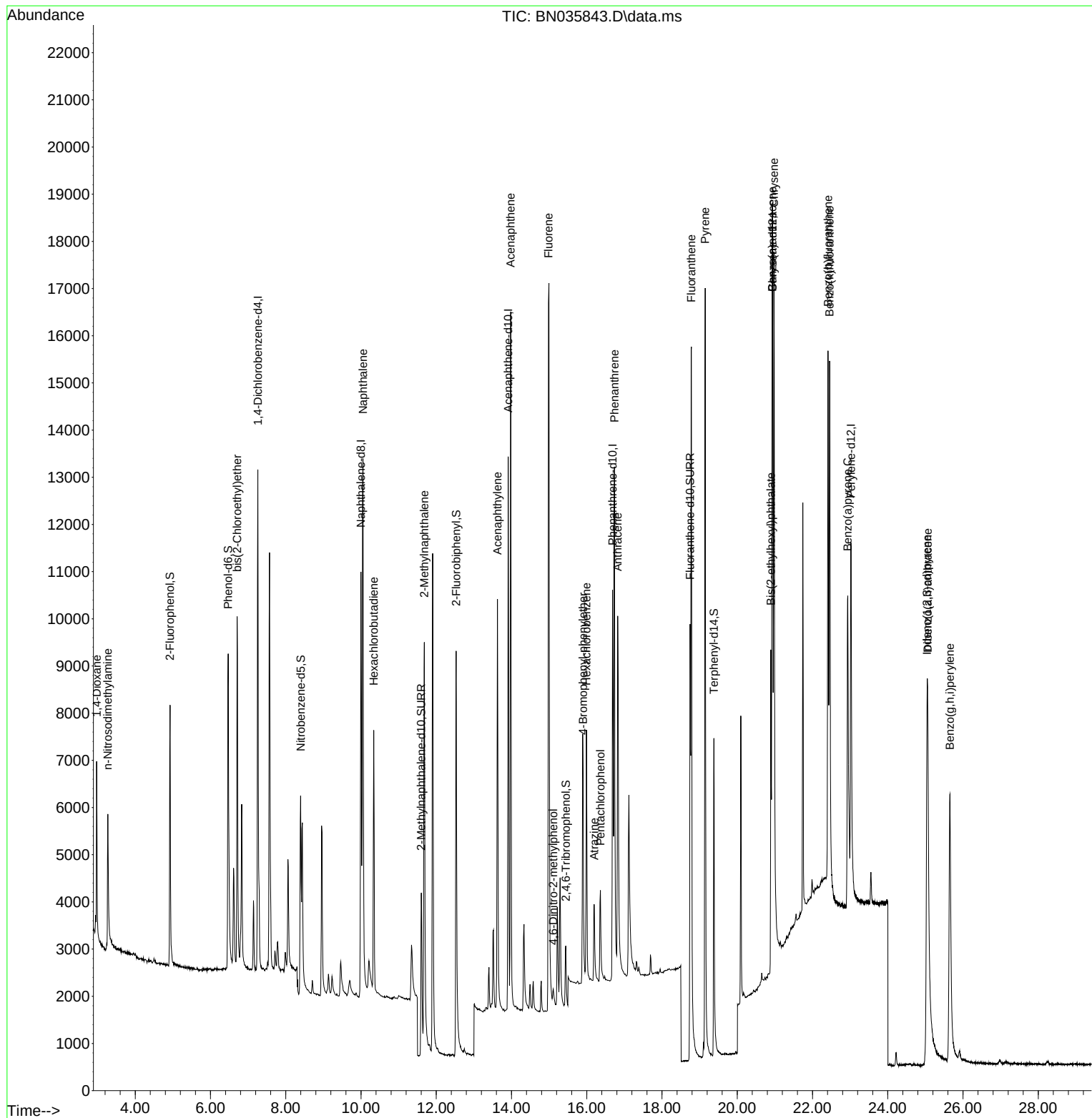
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 Data File : BN035843.D
 Acq On : 25 Dec 2024 05:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

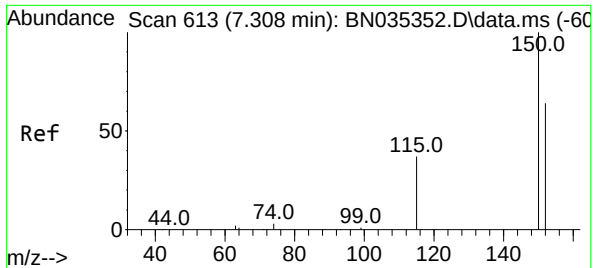
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

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

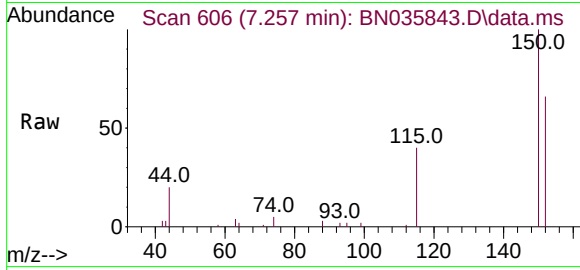
Quant Time: Dec 25 07:05:57 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

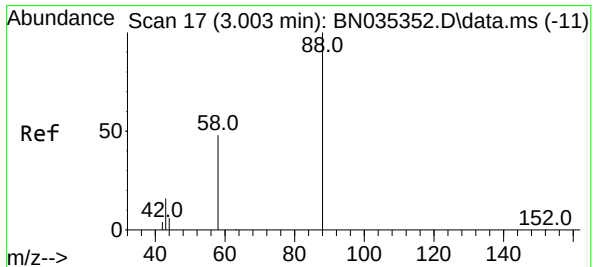
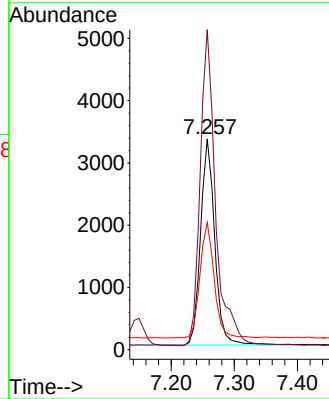
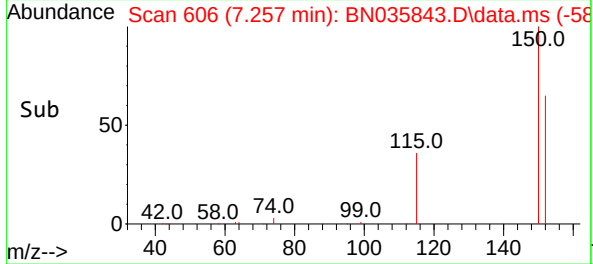
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 5150
Ion Ratio Lower Upper
152 100
150 151.9 124.0 186.0
115 60.4 49.6 74.4

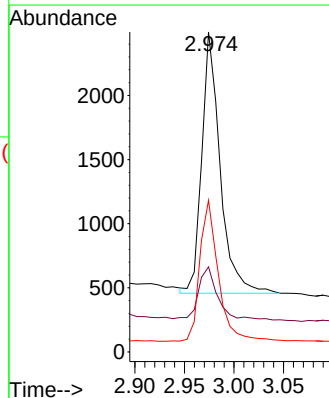
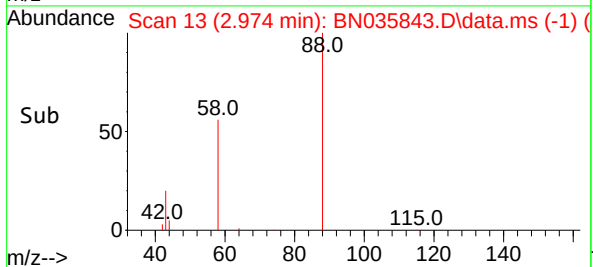
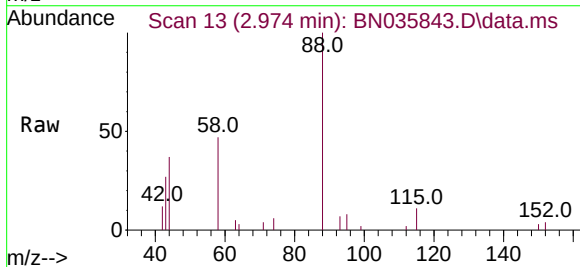
Manual Integrations
APPROVED

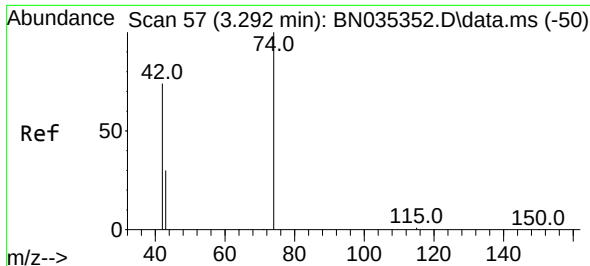
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.533 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 88 Resp: 2628
Ion Ratio Lower Upper
88 100
43 21.2 17.2 25.8
58 54.7 44.5 66.7





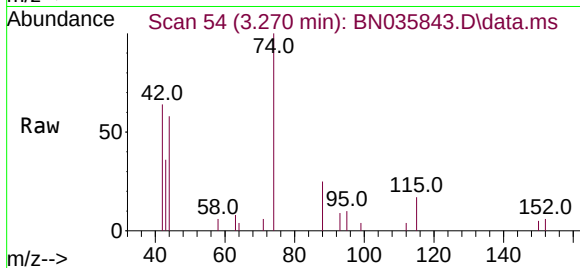
#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

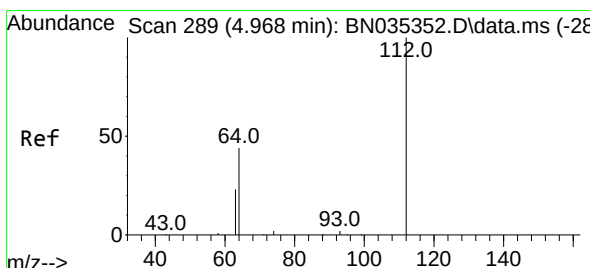
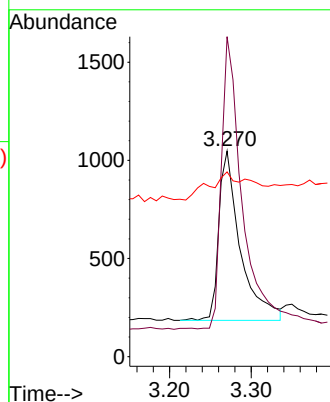
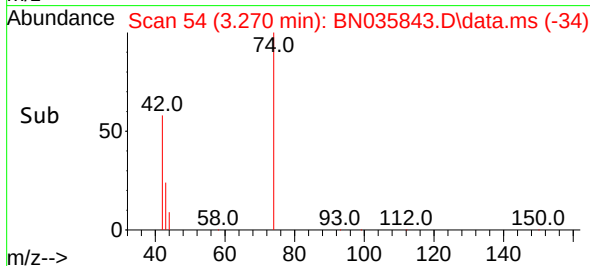


Tgt Ion: 42 Resp: 1579
Ion Ratio Lower Upper
42 100
74 177.0 124.9 187.3
44 20.2 2.2 3.4

Manual Integrations

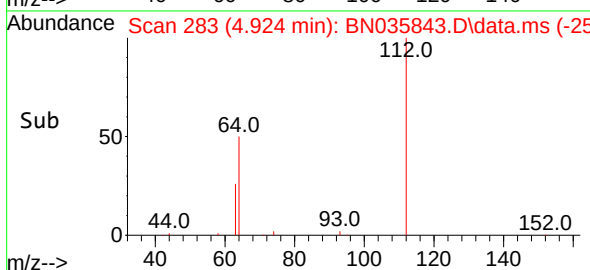
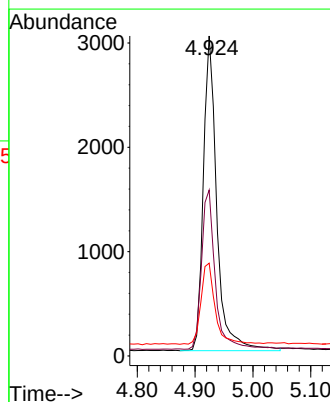
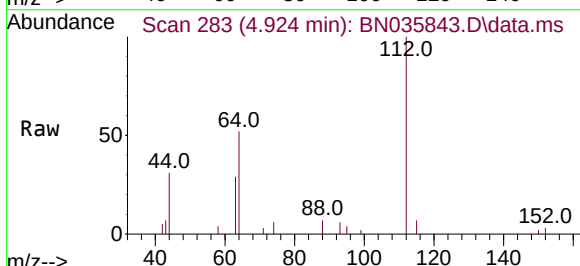
APPROVED

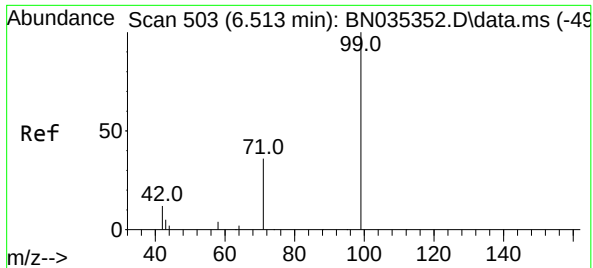
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:112 Resp: 4881
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 27.3 21.0 31.6





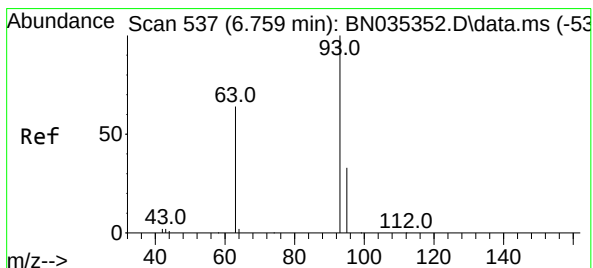
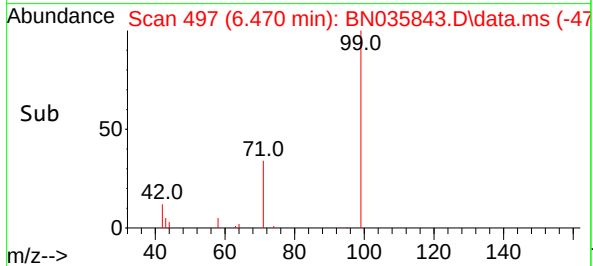
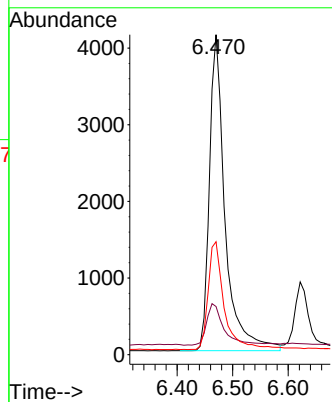
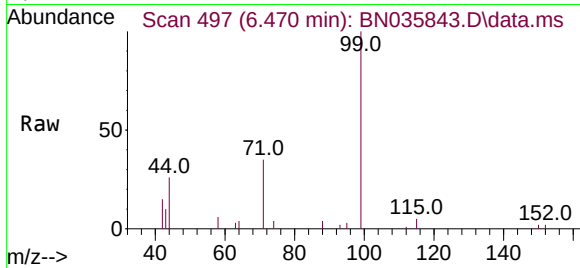
#5
Phenol-d6
Concen: 0.523 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 811
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 35.5 29.3 43.9

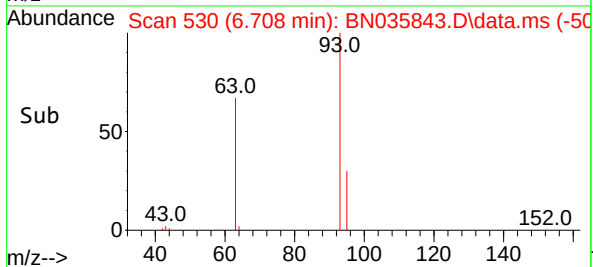
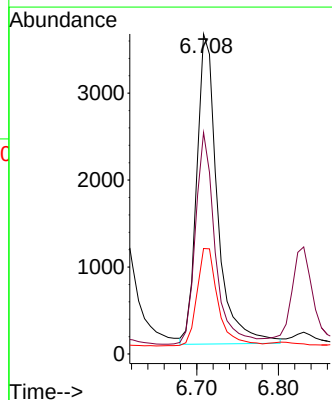
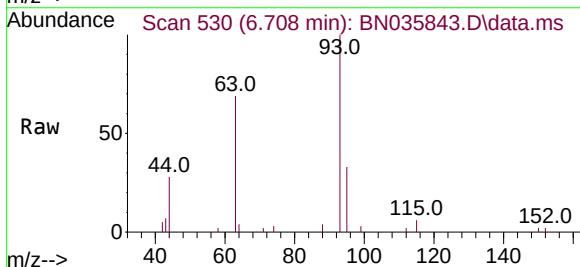
Manual Integrations
APPROVED

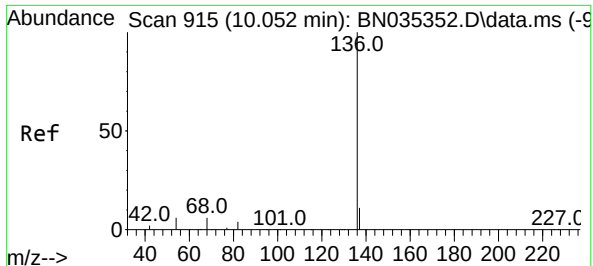
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.483 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 93 Resp: 6304
Ion Ratio Lower Upper
93 100
63 64.6 50.4 75.6
95 32.1 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

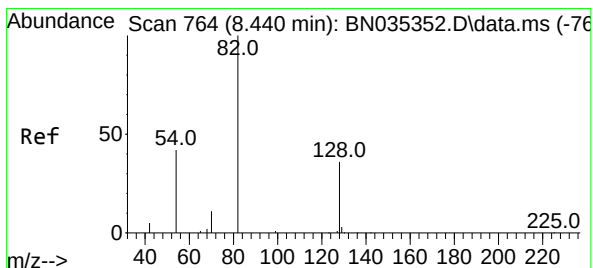
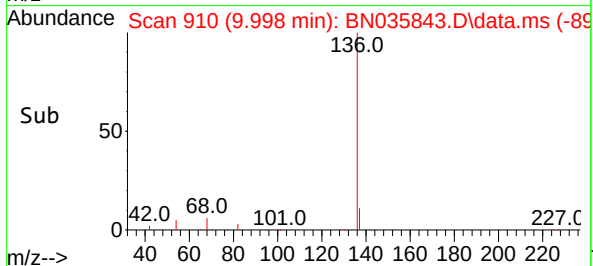
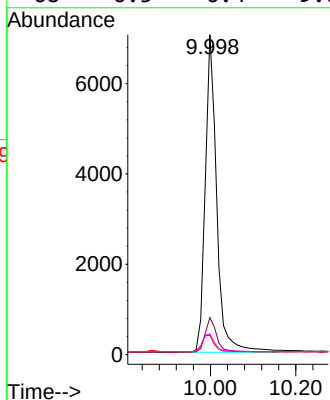
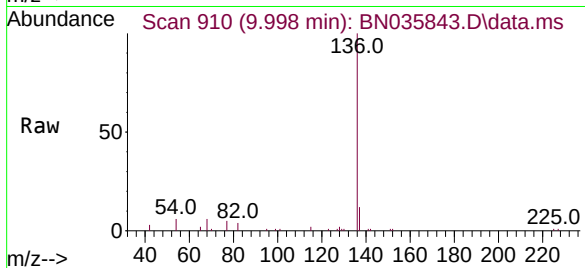
SSTDCCC0.4EC

Tgt Ion	136	Resp	13078
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	6.1	6.1	9.1
68	6.5	6.4	9.6

Manual Integrations

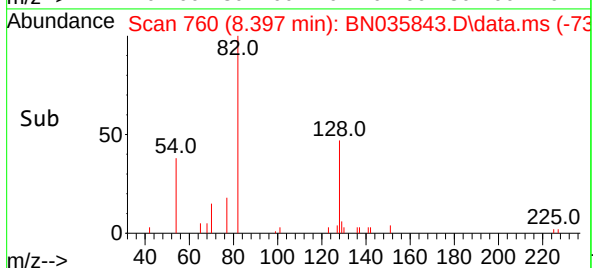
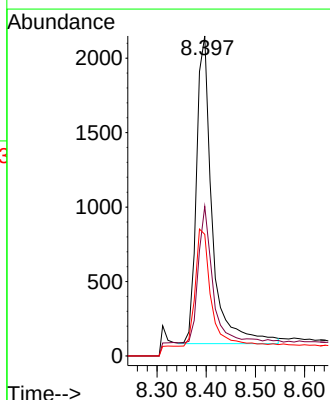
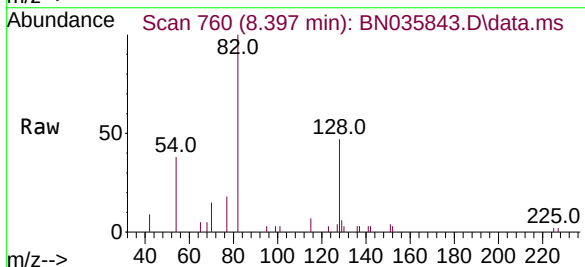
APPROVED

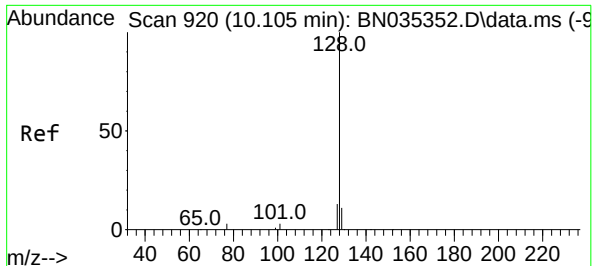
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.574 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion	82	Resp	4586
Ion	Ratio	Lower	Upper
82	100		
128	46.8	33.4	50.0
54	38.0	36.7	55.1





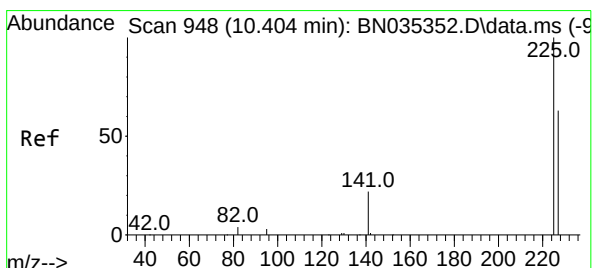
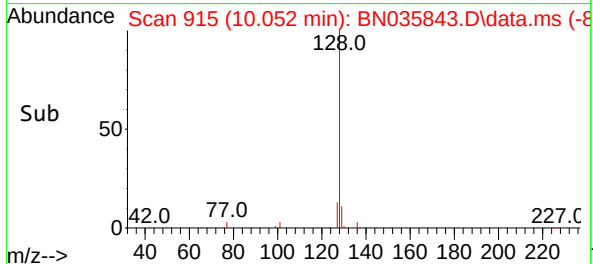
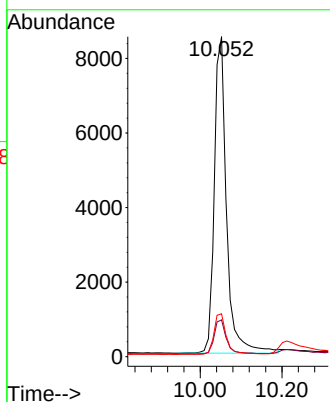
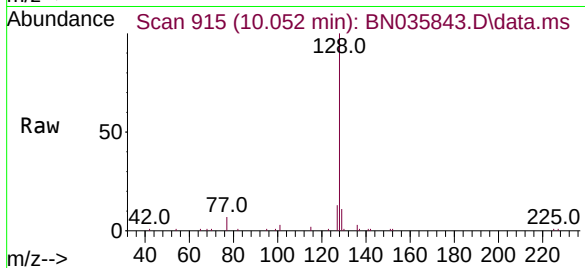
#9
Naphthalene
Concen: 0.511 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.8	14.6
127	13.4	11.4	17.2

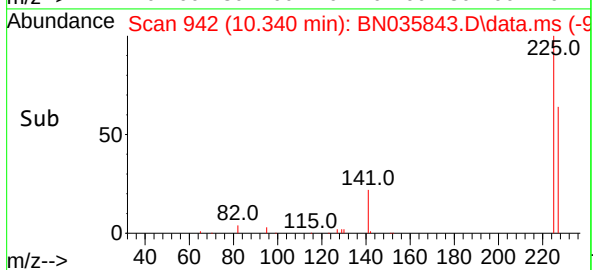
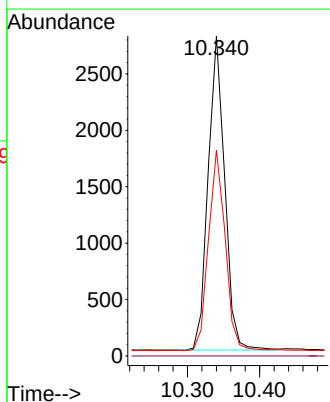
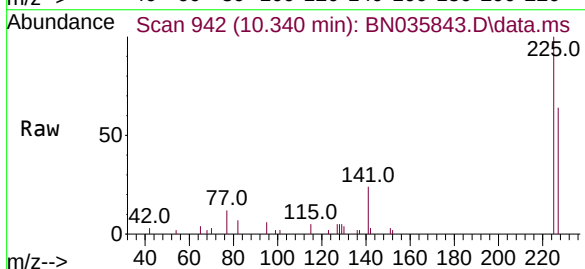
Manual Integrations
APPROVED

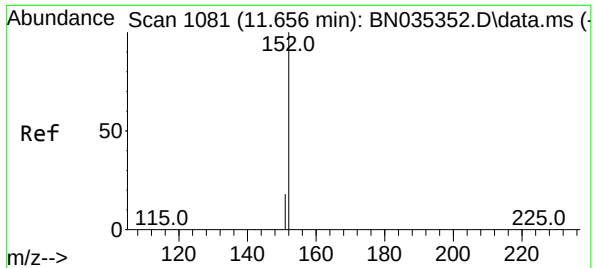
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.559 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

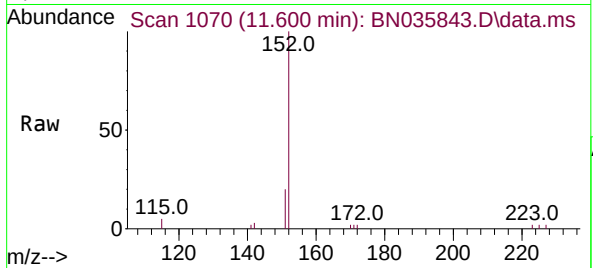
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.600 min Scan# 1080
Delta R.T. -0.020 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

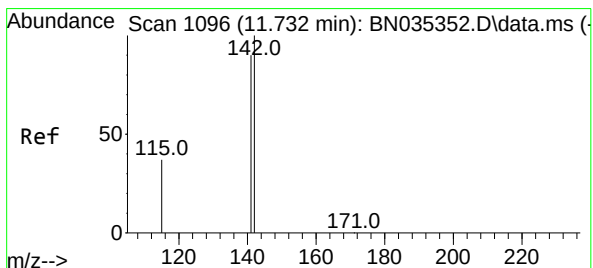
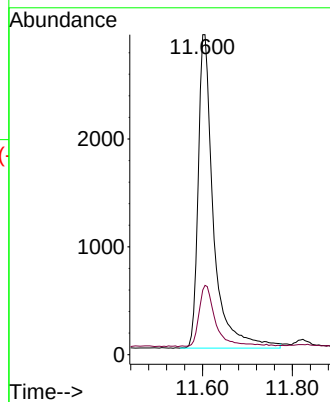
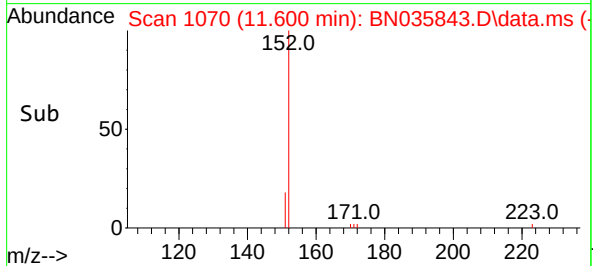
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 6864
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

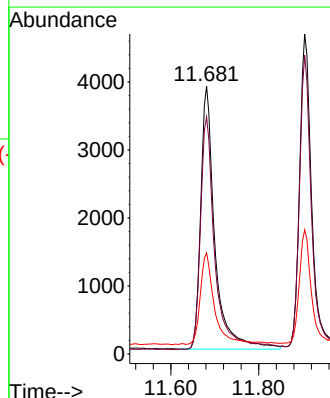
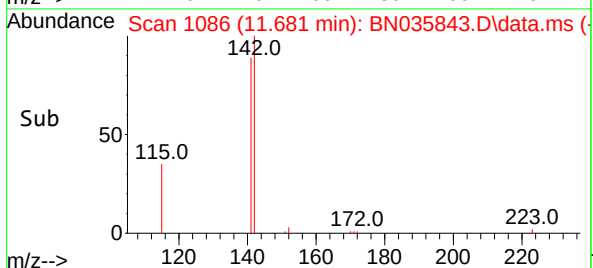
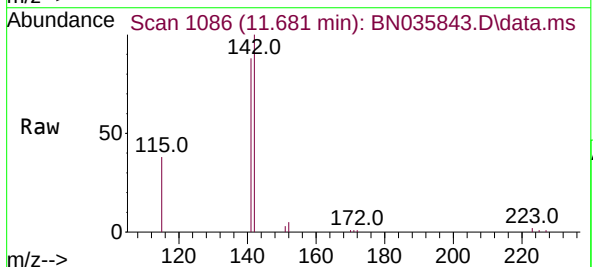
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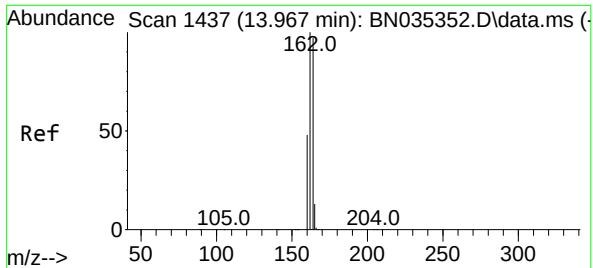
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

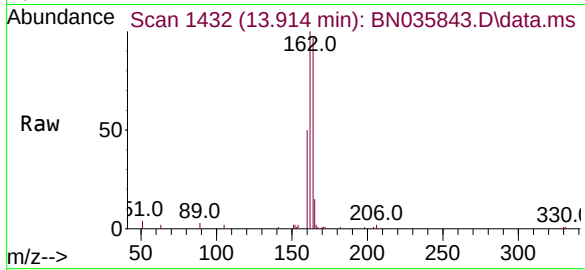
Tgt Ion:142 Resp: 8694
Ion Ratio Lower Upper
142 100
141 88.5 72.2 108.4
115 37.8 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

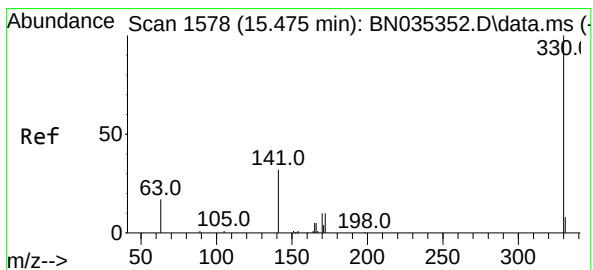
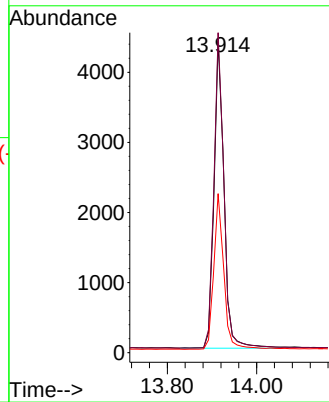
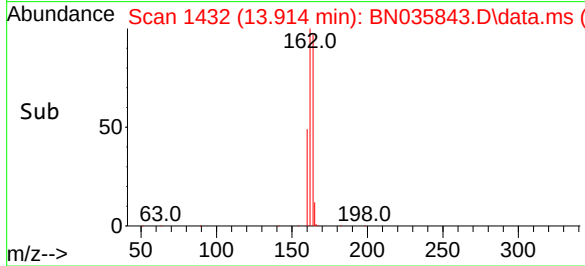
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 680
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 51.0 40.1 60.1

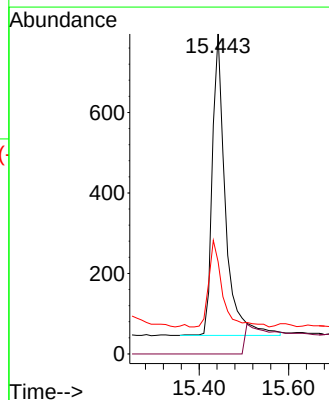
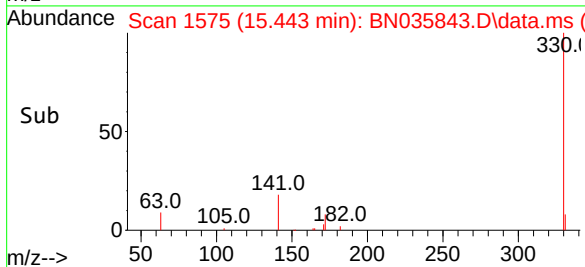
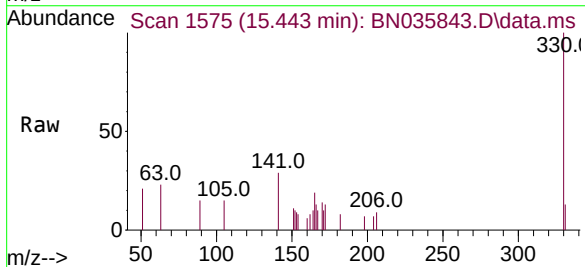
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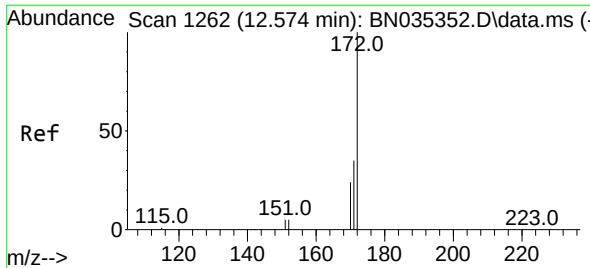
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

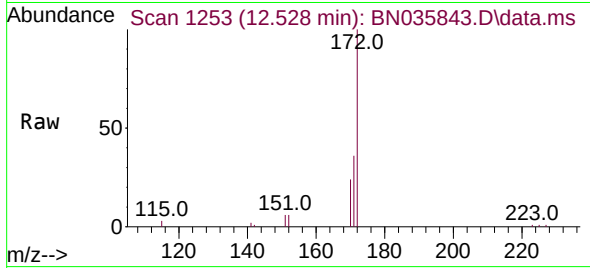
Tgt Ion:330 Resp: 1590
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.5 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

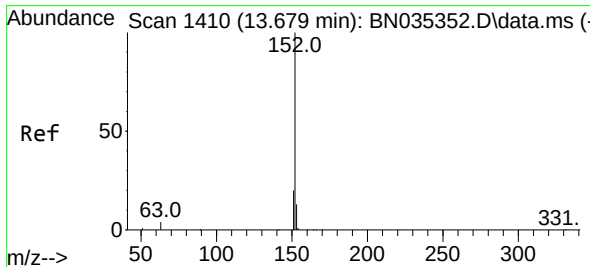
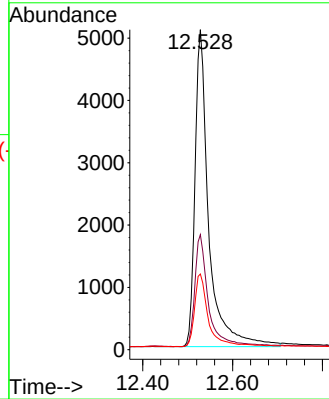
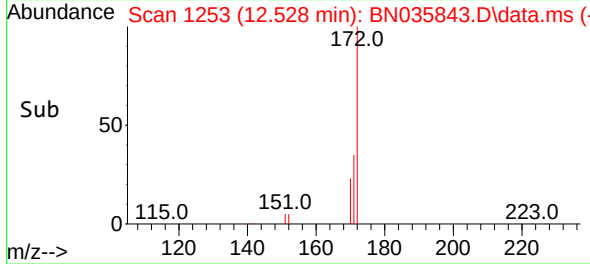
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 1081
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 23.6 19.8 29.8

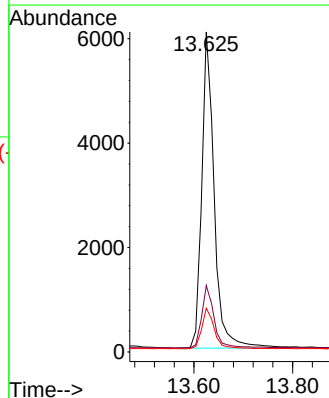
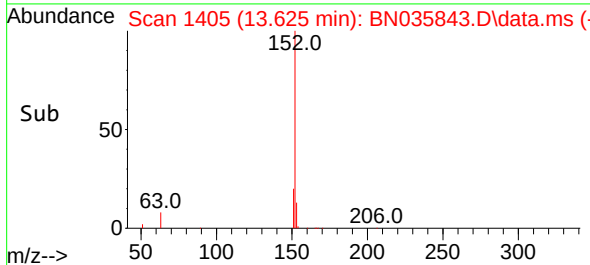
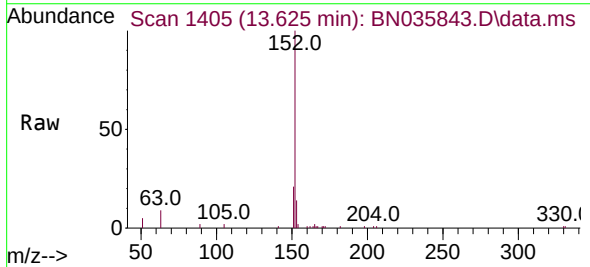
Manual Integrations
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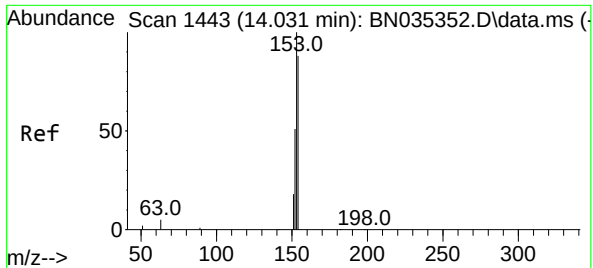
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

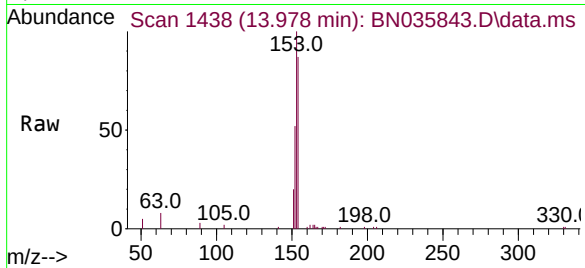
Tgt Ion:152 Resp: 10564
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 13.1 10.4 15.6





#17
Acenaphthene
Concen: 0.384 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

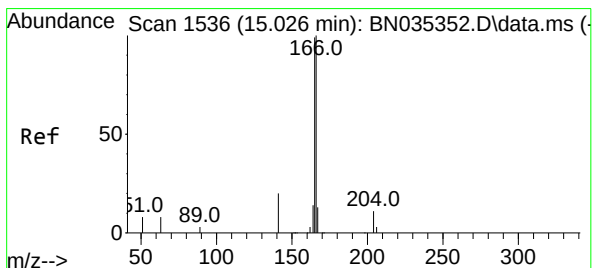
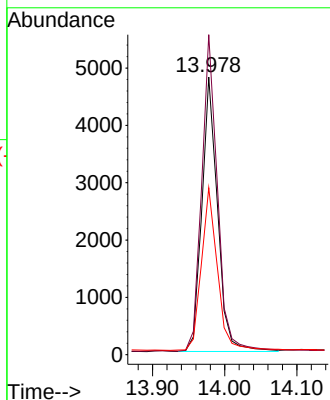
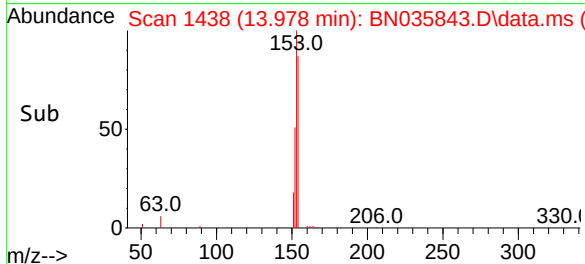
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 7280
Ion Ratio Lower Upper
154 100
153 116.2 92.6 139.0
152 60.3 49.0 73.6

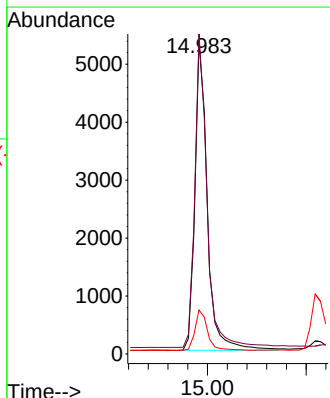
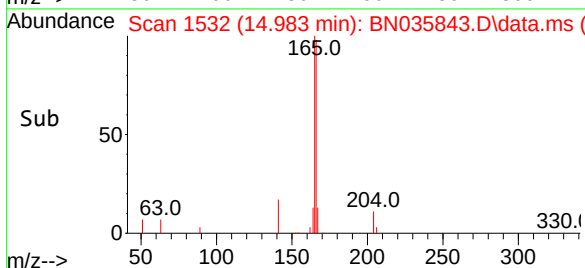
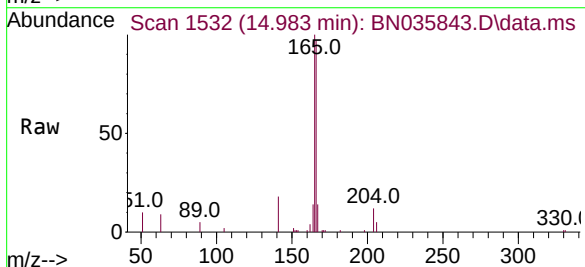
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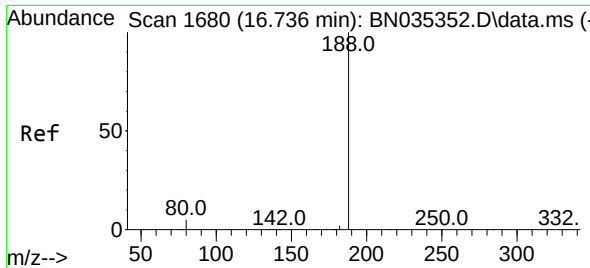
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.342 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:166 Resp: 9290
Ion Ratio Lower Upper
166 100
165 99.5 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: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 1349

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

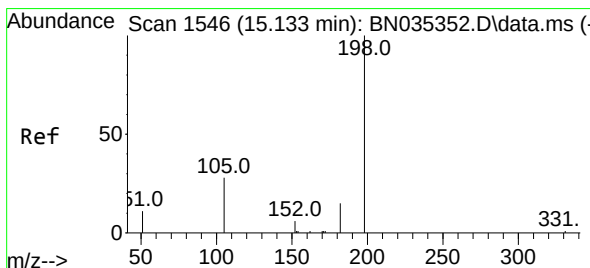
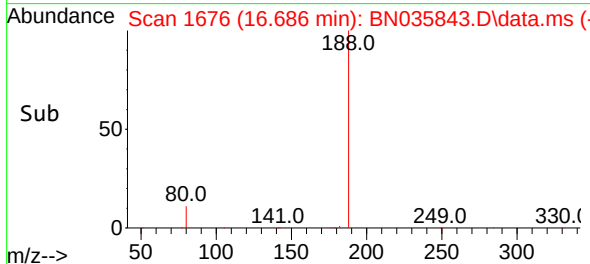
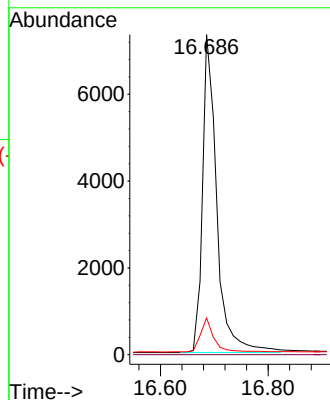
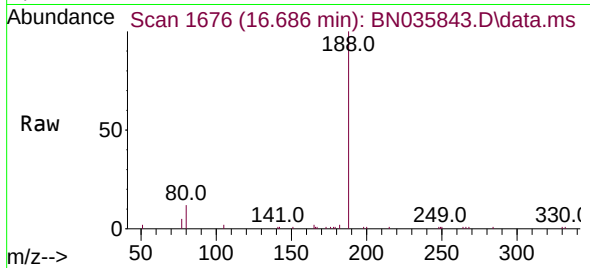
80 11.5 4.6 6.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.347 ng

RT: 15.111 min Scan# 1544

Delta R.T. -0.011 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

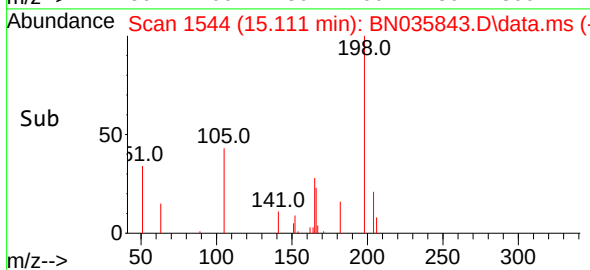
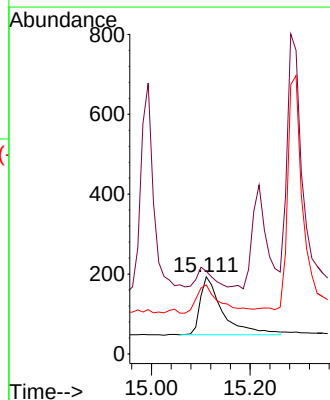
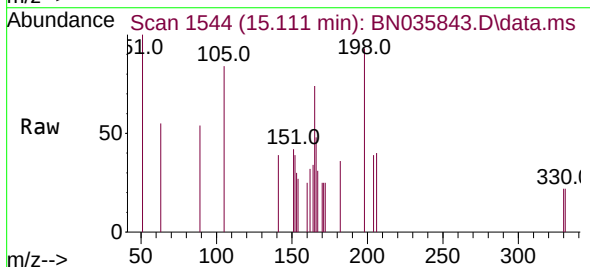
Tgt Ion:198 Resp: 461

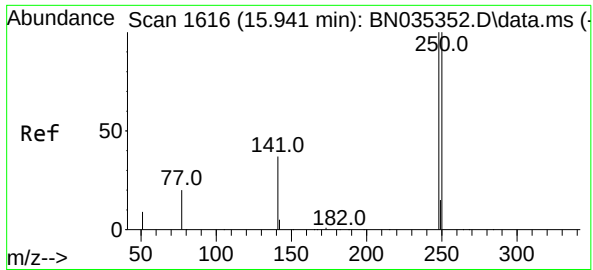
Ion Ratio Lower Upper

198 100

51 107.3 46.5 69.7#

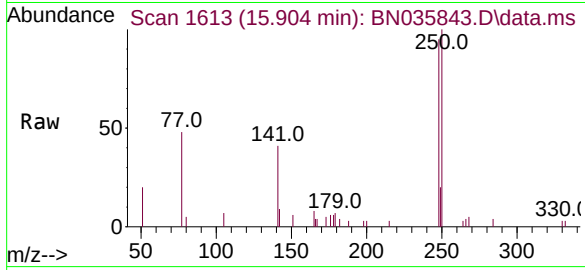
105 89.6 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

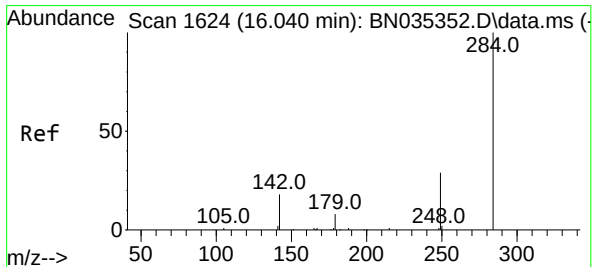
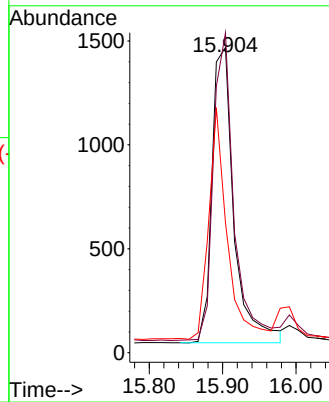
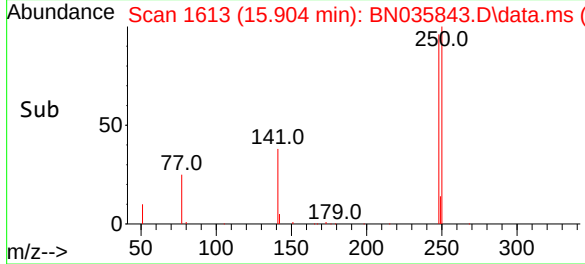
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 2960
Ion Ratio Lower Upper
248 100
250 104.8 80.6 120.8
141 42.5 31.5 47.3

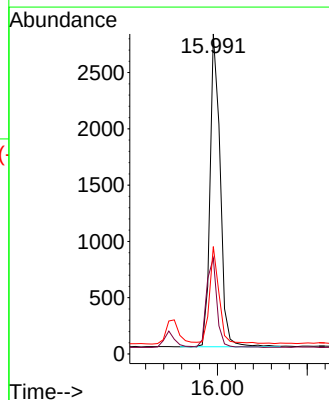
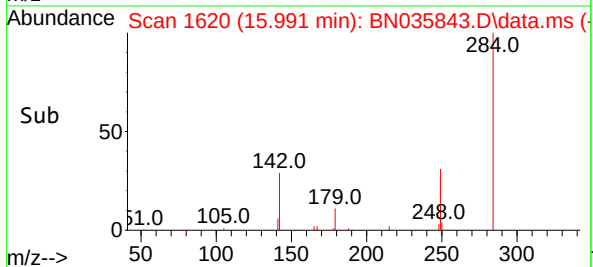
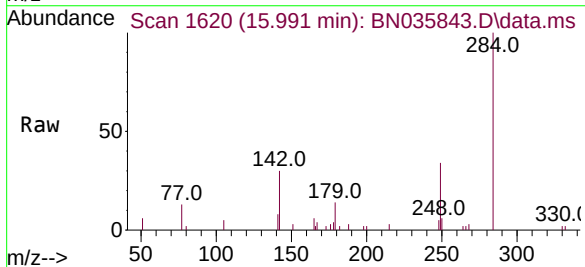
Manual Integrations
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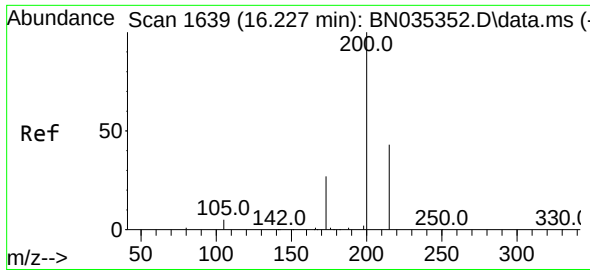
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.469 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

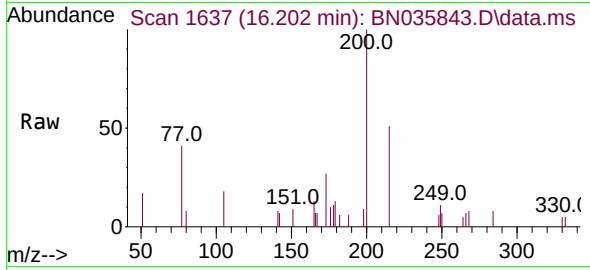
Tgt Ion:284 Resp: 4352
Ion Ratio Lower Upper
284 100
142 29.5 26.7 40.1
249 29.5 24.6 36.8





#23
Atrazine
Concen: 0.362 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

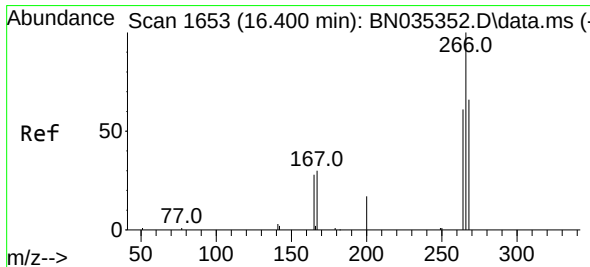
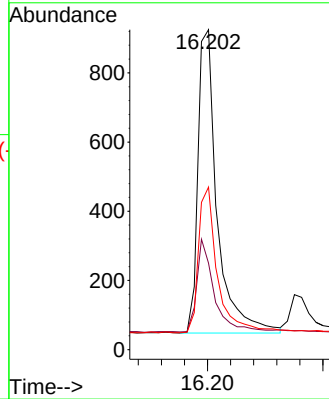
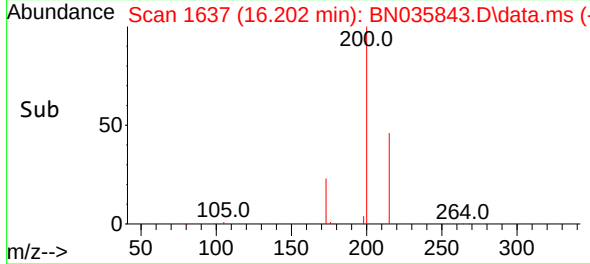
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 203
Ion Ratio Lower Upper
200 100
173 27.0 24.1 36.1
215 50.8 36.9 55.3

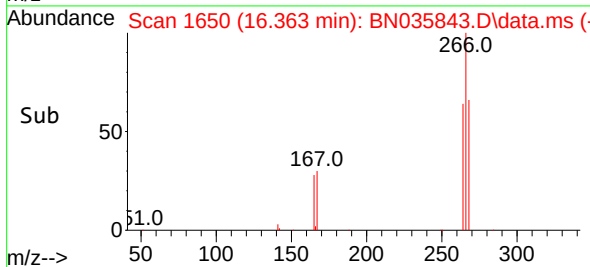
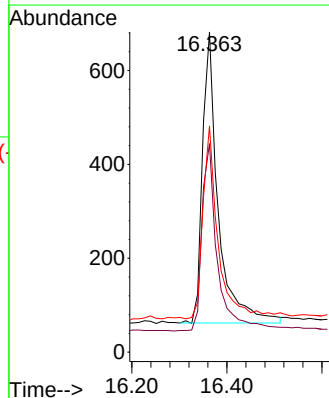
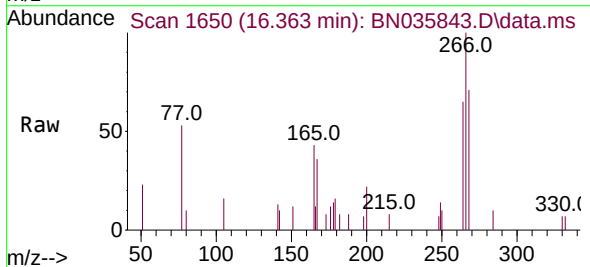
Manual Integrations
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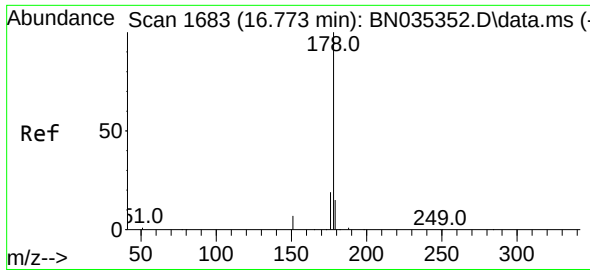
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:266 Resp: 1431
Ion Ratio Lower Upper
266 100
264 63.7 42.3 63.5#
268 64.5 43.3 64.9





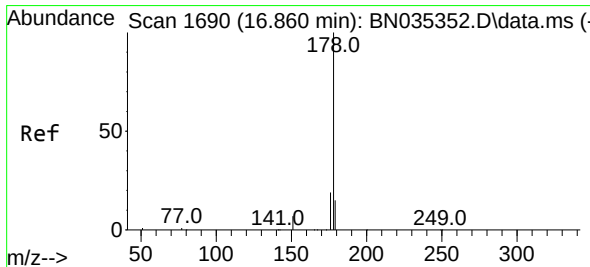
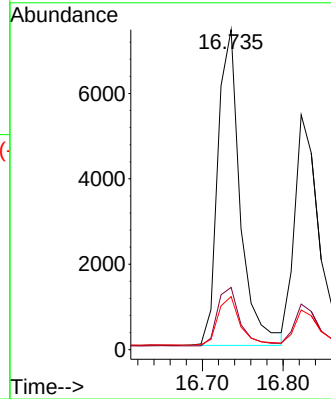
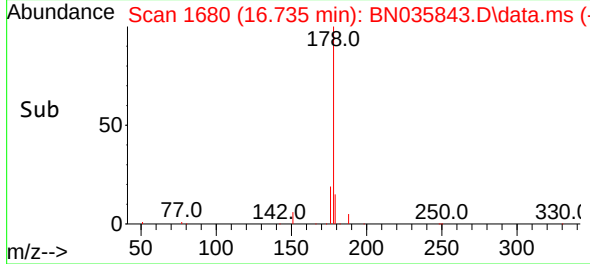
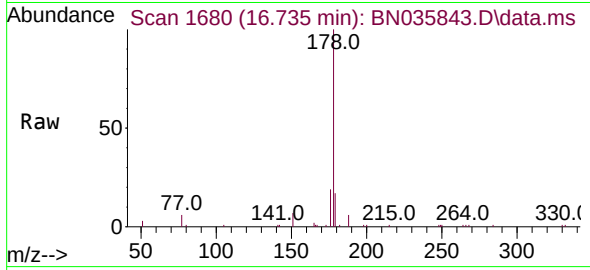
#25
Phenanthrene
Concen: 0.384 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 1425
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.4 12.3 18.5

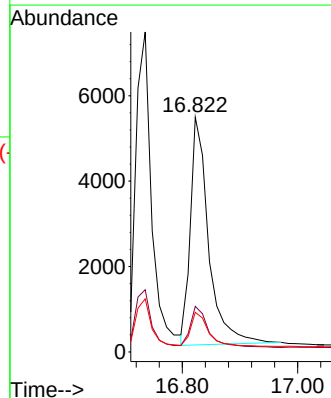
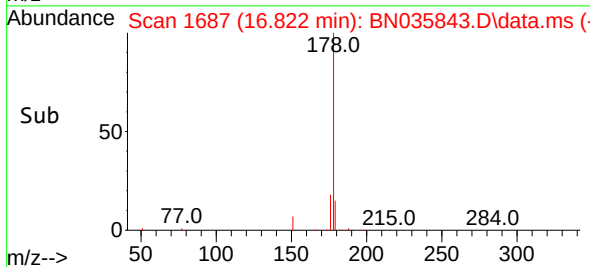
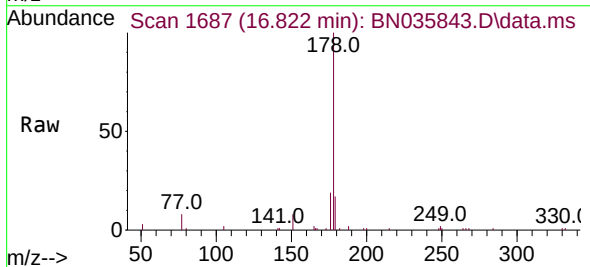
Manual Integrations
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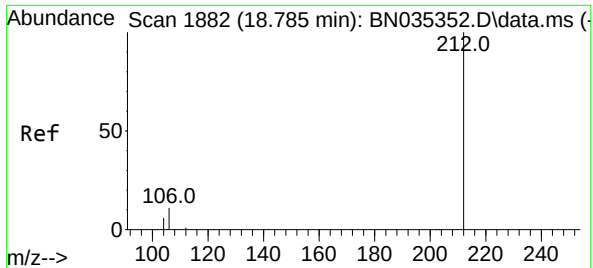
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.350 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 11727
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.0 12.6 18.8





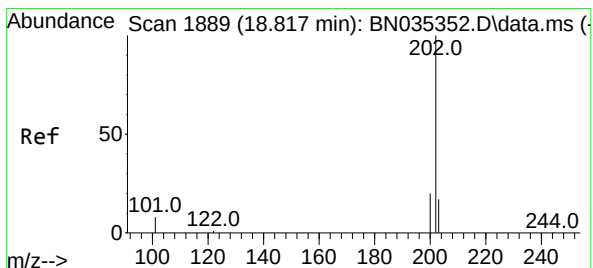
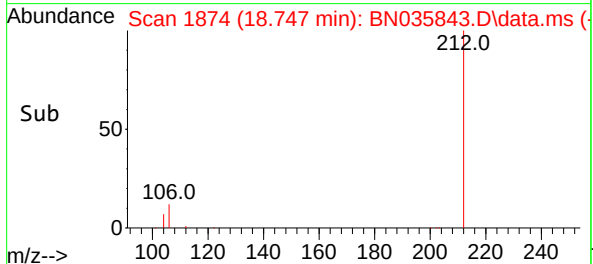
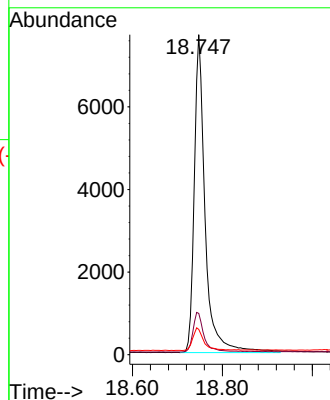
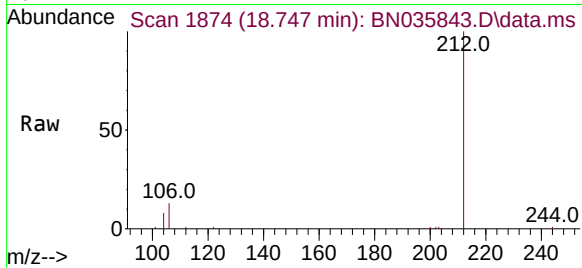
#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 12940
Ion Ratio Lower Upper
212 100
106 12.6 9.2 13.8
104 7.2 5.3 7.9

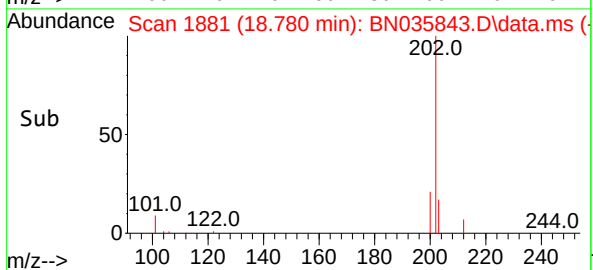
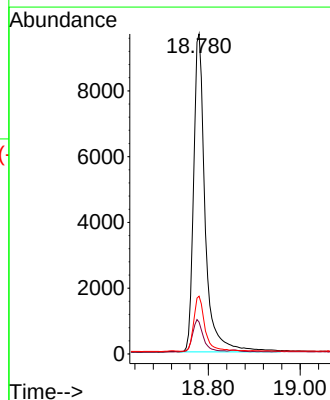
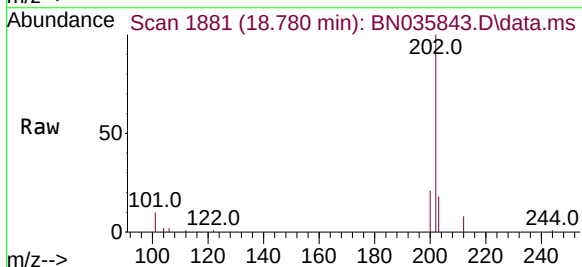
Manual Integrations
APPROVED

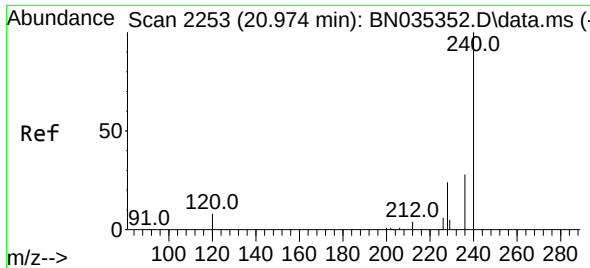
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

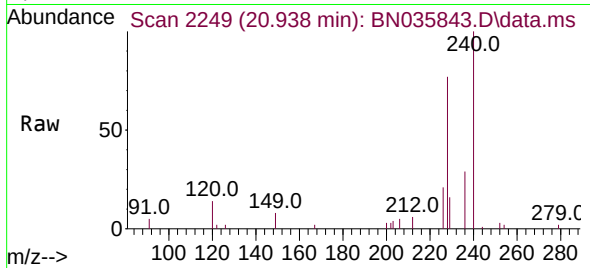
Tgt Ion:202 Resp: 16856
Ion Ratio Lower Upper
202 100
101 9.9 7.4 11.0
203 16.7 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

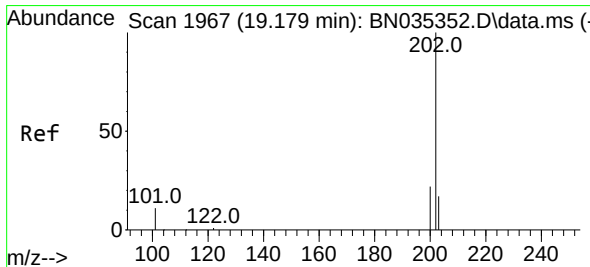
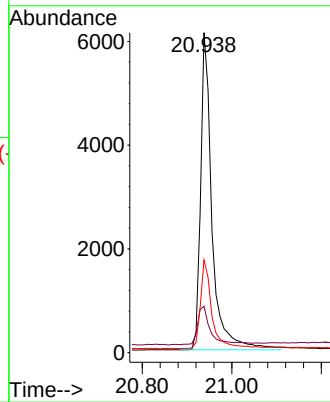
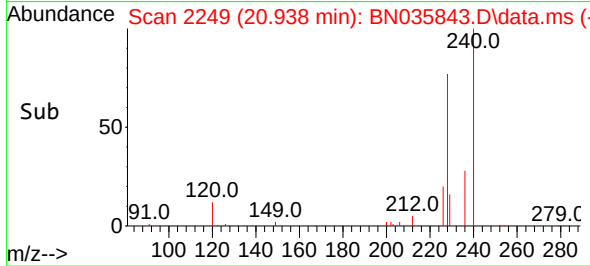
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:240 Resp: 1082
Ion Ratio Lower Upper
240 100
120 14.5 7.9 11.9
236 29.0 22.9 34.3

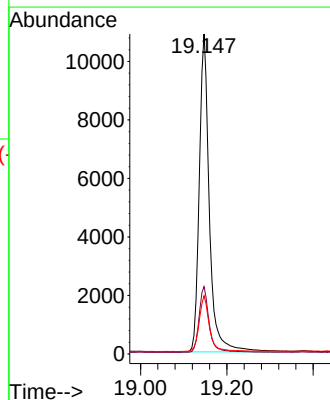
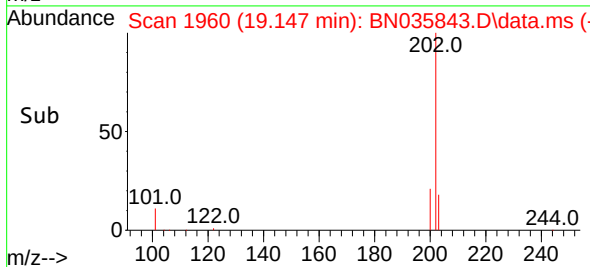
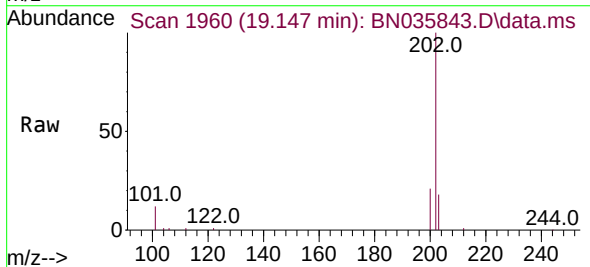
Manual Integrations
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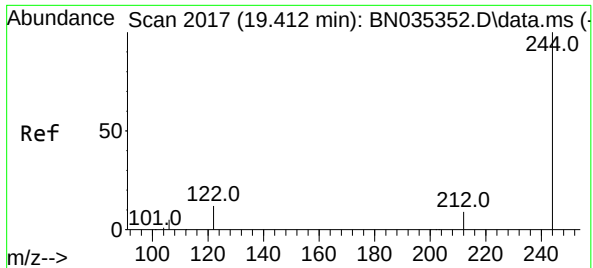
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#30
Pyrene
Concen: 0.441 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 17619
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.4
203 17.8 14.3 21.5





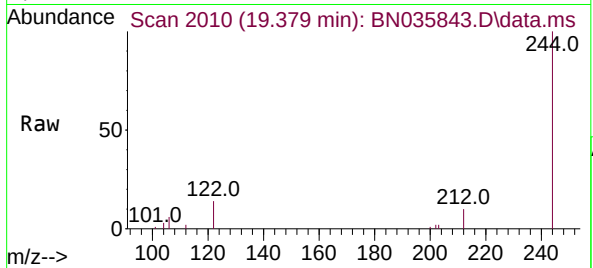
#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

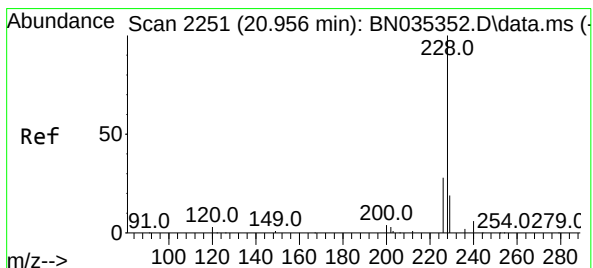
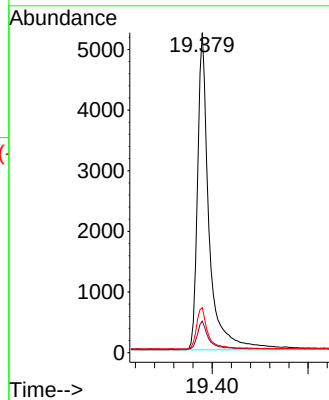
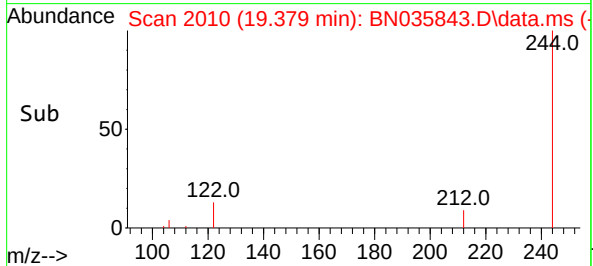


Tgt Ion:244 Resp: 8772
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 14.1 10.3 15.5

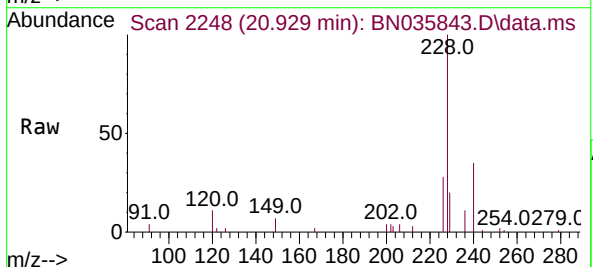
Manual Integrations

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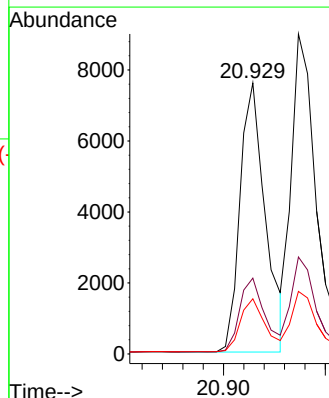
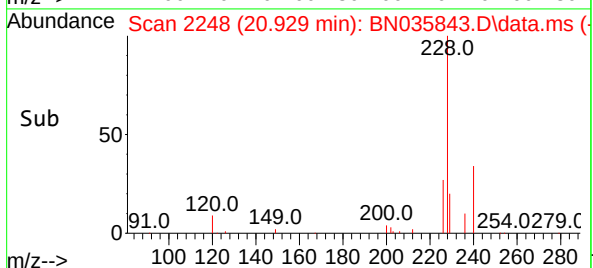
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

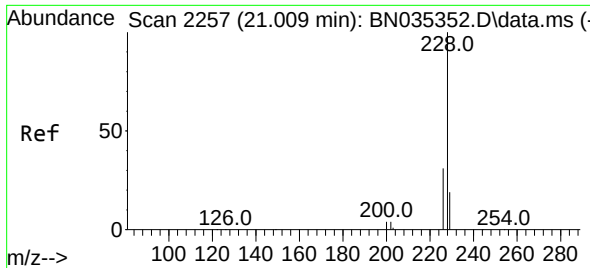


#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14



Tgt Ion:228 Resp: 13110
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 20.3 15.8 23.8





#33

Chrysene

Concen: 0.416 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:228 Resp: 1623

Ion Ratio Lower Upper

228 100

226 30.3 24.6 37.0

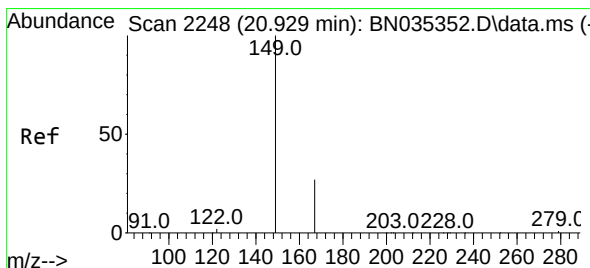
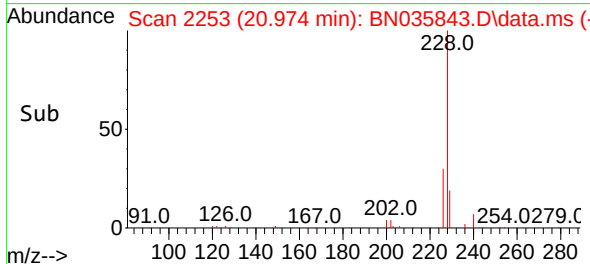
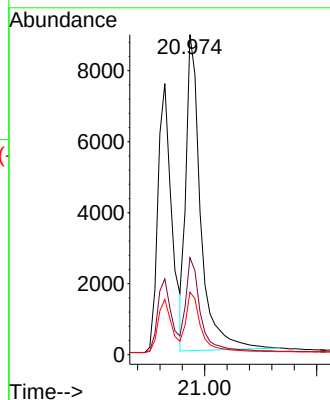
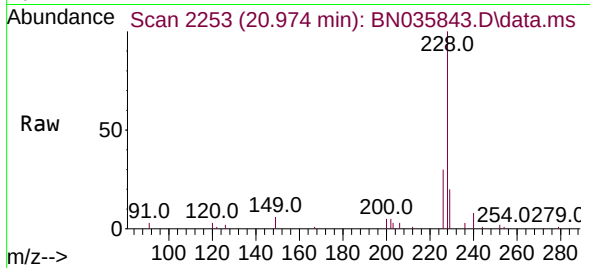
229 19.5 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.397 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

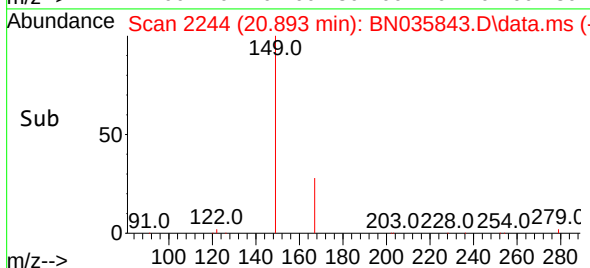
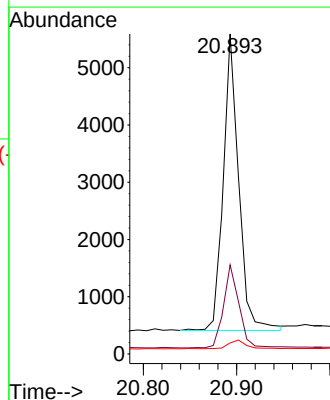
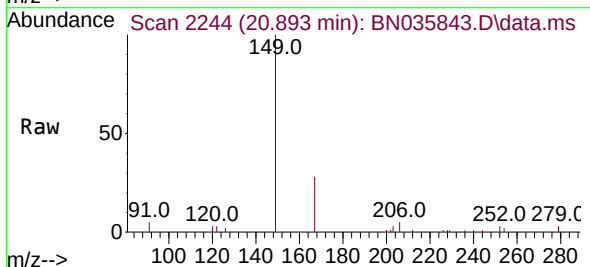
Tgt Ion:149 Resp: 5933

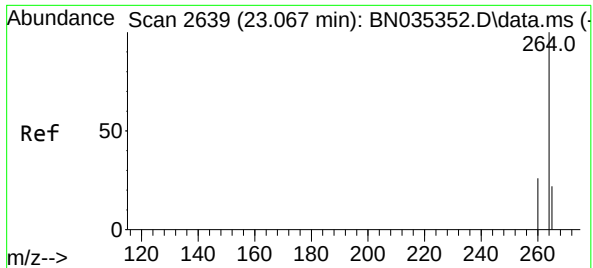
Ion Ratio Lower Upper

149 100

167 28.1 22.2 33.4

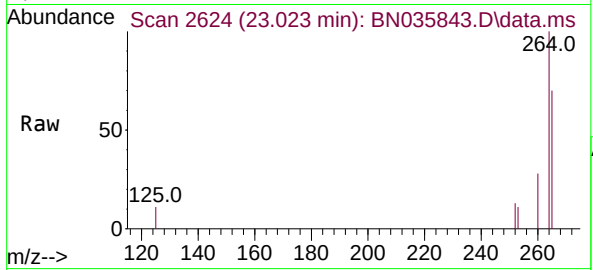
279 3.5 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

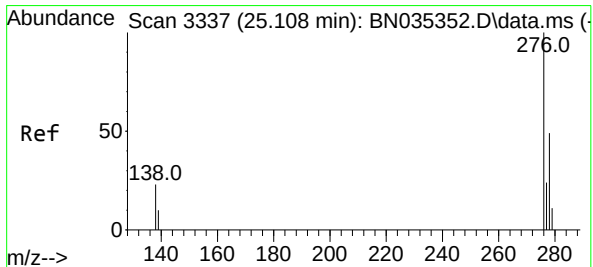
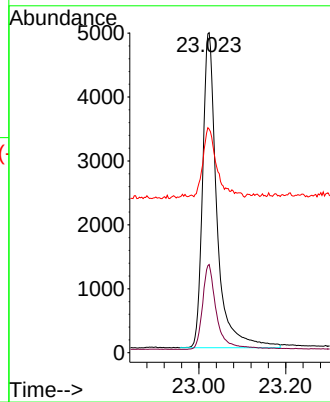
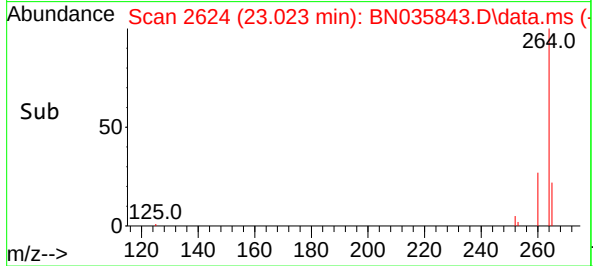
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 11272
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 69.9 40.2 60.4

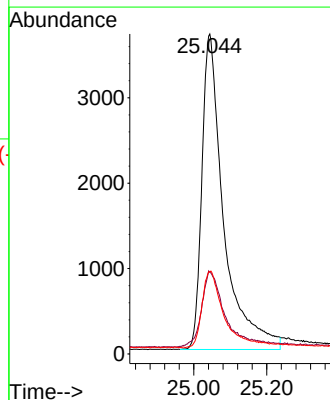
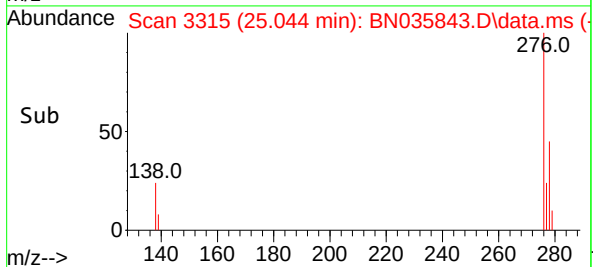
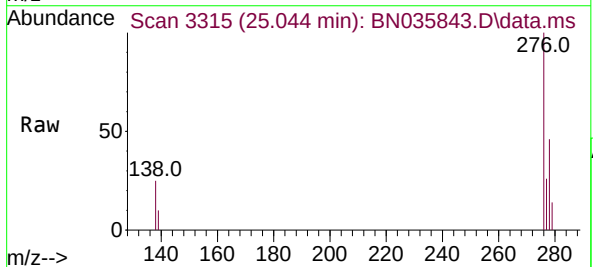
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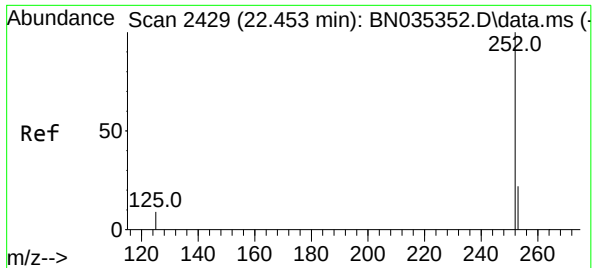
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 15331
Ion Ratio Lower Upper
276 100
138 24.4 19.4 29.0
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.621 ng

RT: 22.412 min Scan# 2415

Delta R.T. -0.018 min

Lab File: BN035843.D

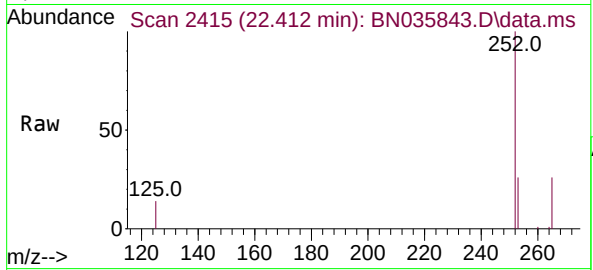
Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



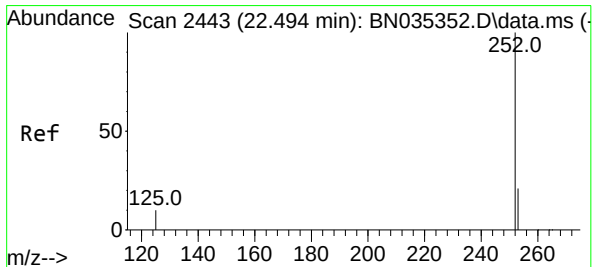
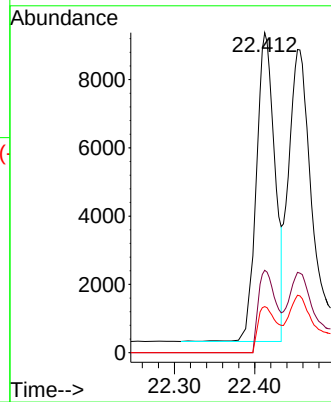
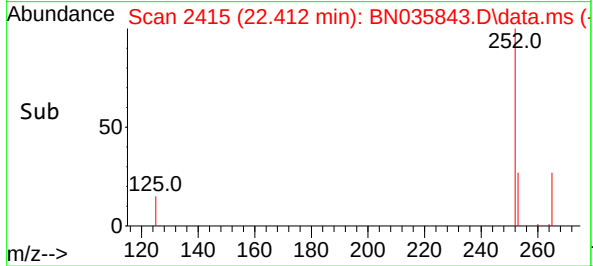
Tgt Ion:	252	Resp:	2561
Ion Ratio	Lower	Upper	
252	100		
253	25.7	19.6	29.4
125	14.4	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

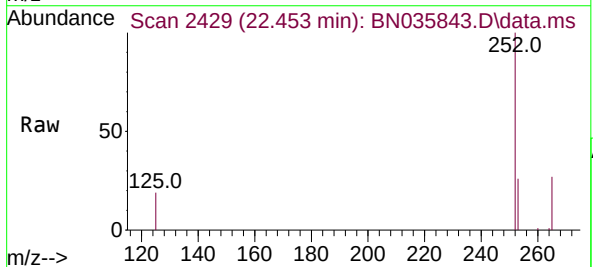
Concen: 0.458 ng m

RT: 22.453 min Scan# 2429

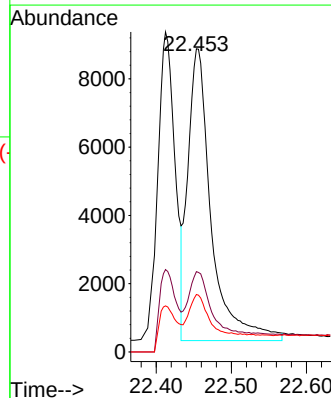
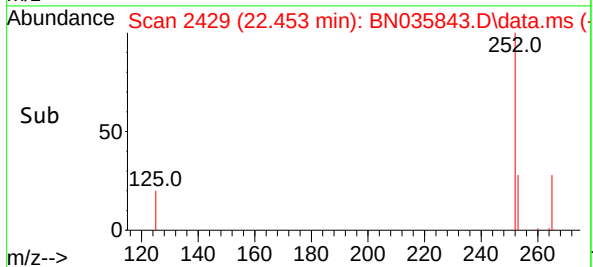
Delta R.T. -0.018 min

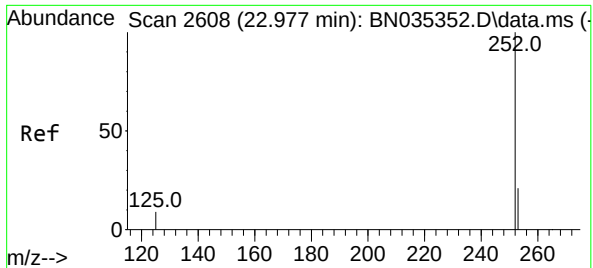
Lab File: BN035843.D

Acq: 25 Dec 2024 05:14



Tgt Ion:	252	Resp:	18591
Ion Ratio	Lower	Upper	
252	100		
253	26.5	19.5	29.3
125	18.9	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.373 ng

RT: 22.936 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

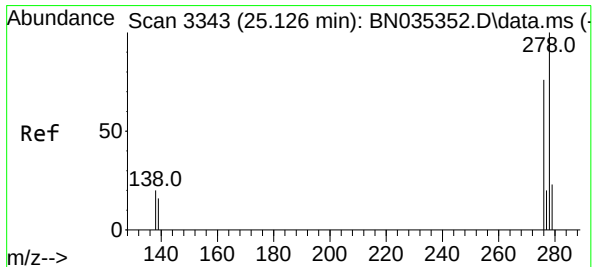
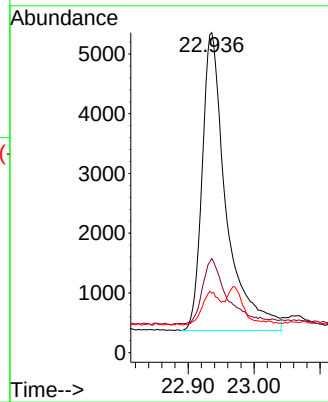
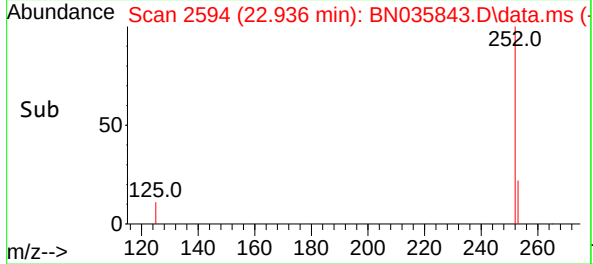
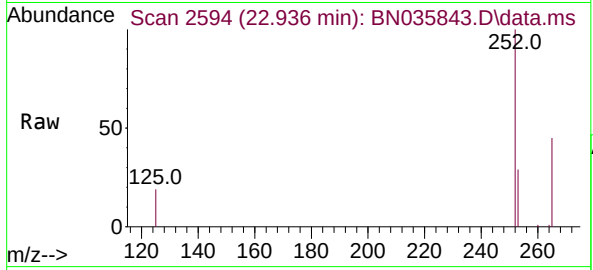
Tgt Ion:	252	Resp:	1266
Ion Ratio	Lower	Upper	
252	100		
253	29.4	20.2	30.4
125	18.6	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.320 ng

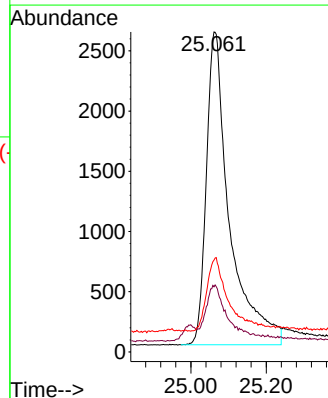
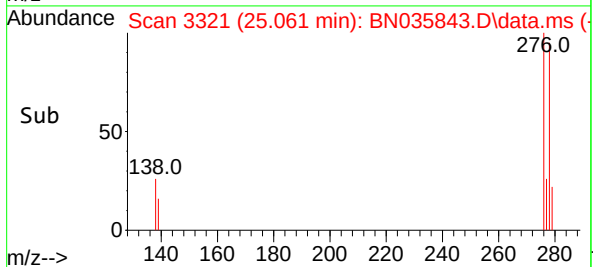
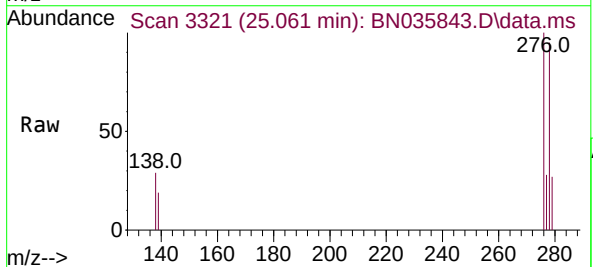
RT: 25.061 min Scan# 3321

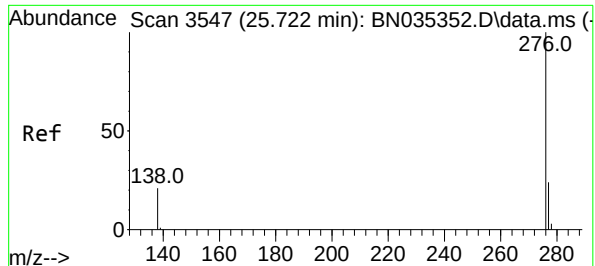
Delta R.T. -0.021 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Tgt Ion:	278	Resp:	11116
Ion Ratio	Lower	Upper	
278	100		
139	20.4	14.2	21.4
279	28.7	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.387 ng

RT: 25.652 min Scan# 31

Delta R.T. -0.027 min

Lab File: BN035843.D

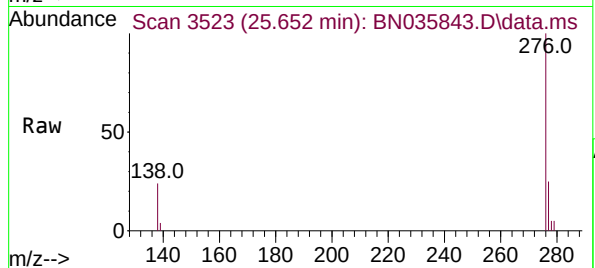
Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 14070

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

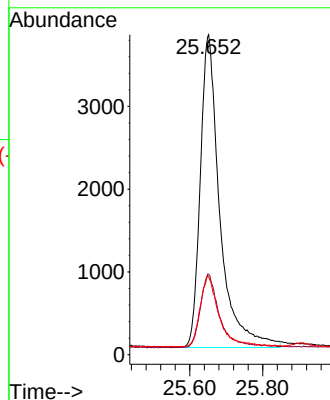
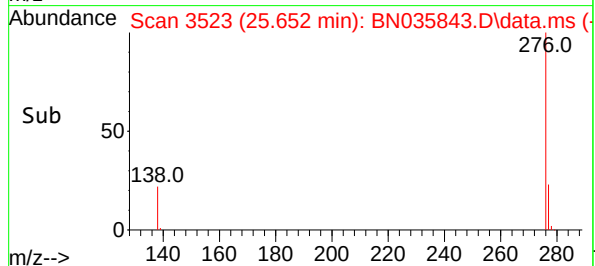
138 24.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/26/2024

Supervised By :mohammad ahmed 12/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035843.D
 Acq On : 25 Dec 2024 05:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 25 07:05:57 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	252#	-0.01
2	1,4-Dioxane	0.382	0.510	-33.5#	341#	0.00
3	n-Nitrosodimethylamine	0.319	0.305	4.4	236#	0.00
4 S	2-Fluorophenol	1.001	0.947	5.4	234#	-0.01
5 S	Phenol-d6	1.204	1.574	-30.7#	332#	-0.02
6	bis(2-Chloroethyl)ether	1.012	1.223	-20.8	310#	-0.02
7 I	Naphthalene-d8	1.000	1.000	0.0	250#	-0.02
8 S	Nitrobenzene-d5	0.244	0.351	-43.9#	373#	-0.01
9	Naphthalene	1.055	1.347	-27.7#	322#	-0.01
10	Hexachlorobutadiene	0.243	0.340	-39.9#	344#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.525	16.1	212#	-0.02
12	2-Methylnaphthalene	0.755	0.665	11.9	225#	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	179#	-0.02
14 S	2,4,6-Tribromophenol	0.284	0.234	17.6	163#	-0.01
15 S	2-Fluorobiphenyl	1.512	1.591	-5.2	189#	-0.02
16	Acenaphthylene	1.680	1.553	7.6	174#	-0.02
17	Acenaphthene	1.115	1.070	4.0	176#	-0.02
18	Fluorene	1.596	1.366	14.4	158#	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	142	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.034	12.8	137	-0.01
21	4-Bromophenyl-phenylether	0.234	0.219	6.4	138	-0.01
22	Hexachlorobenzene	0.275	0.322	-17.1	168#	-0.03
23	Atrazine	0.167	0.151	9.6	139	0.00
24	Pentachlorophenol	0.120	0.106	11.7	158#	-0.01
25	Phenanthrene	1.099	1.056	3.9	141	-0.01
26	Anthracene	0.994	0.869	12.6	131	-0.01
27 SURR	Fluoranthene-d10	1.134	0.959	15.4	127	-0.01
28	Fluoranthene	1.481	1.249	15.7	125	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	114	-0.02
30	Pyrene	1.477	1.627	-10.2	125	-0.01
31 S	Terphenyl-d14	0.789	0.810	-2.7	116	0.00
32	Benzo(a)anthracene	1.399	1.211	13.4	102	0.00
33	Chrysene	1.443	1.500	-4.0	118	-0.02
34	Bis(2-ethylhexyl)phthalate	0.553	0.548	0.9	121	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	104	-0.02
36	Indeno(1,2,3-cd)pyrene	1.564	1.360	13.0	92	-0.02
37	Benzo(b)fluoranthene	1.463	2.273	-55.4#	180#	-0.02
38	Benzo(k)fluoranthene	1.440	1.649	-14.5	122	-0.02
39 C	Benzo(a)pyrene	1.205	1.124	6.7	102	-0.01
40	Dibenzo(a,h)anthracene	1.234	0.986	20.1	86	-0.02
41	Benzo(g,h,i)perylene	1.289	1.248	3.2	104	-0.03

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035843.D
 Acq On : 25 Dec 2024 05:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 25 07:05:57 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	252	-0.01
2	1,4-Dioxane	0.400	0.533	-33.3#	341	0.00
3	n-Nitrosodimethylamine	0.400	0.384	4.0	236	0.00
4 S	2-Fluorophenol	0.400	0.378	5.5	234	-0.01
5 S	Phenol-d6	0.400	0.523	-30.8#	332	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.483	-20.7	310	-0.02
7 I	Naphthalene-d8	0.400	0.400	0.0	250	-0.02
8 S	Nitrobenzene-d5	0.400	0.574	-43.5#	373	-0.01
9	Naphthalene	0.400	0.511	-27.7#	322	-0.01
10	Hexachlorobutadiene	0.400	0.559	-39.8#	344	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.335	16.3	212	-0.02
12	2-Methylnaphthalene	0.400	0.352	12.0	225	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	179	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.329	17.8	163	-0.01
15 S	2-Fluorobiphenyl	0.400	0.421	-5.2	189	-0.02
16	Acenaphthylene	0.400	0.370	7.5	174	-0.02
17	Acenaphthene	0.400	0.384	4.0	176	-0.02
18	Fluorene	0.400	0.342	14.5	158	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	142	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.347	13.3	137	-0.01
21	4-Bromophenyl-phenylether	0.400	0.375	6.3	138	-0.01
22	Hexachlorobenzene	0.400	0.469	-17.2	168	-0.03
23	Atrazine	0.400	0.362	9.5	139	0.00
24	Pentachlorophenol	0.400	0.355	11.3	158	-0.01
25	Phenanthrene	0.400	0.384	4.0	141	-0.01
26	Anthracene	0.400	0.350	12.5	131	-0.01
27 SURR	Fluoranthene-d10	0.400	0.338	15.5	127	-0.01
28	Fluoranthene	0.400	0.337	15.8	125	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	114	-0.02
30	Pyrene	0.400	0.441	-10.2	125	-0.01
31 S	Terphenyl-d14	0.400	0.411	-2.7	116	0.00
32	Benzo(a)anthracene	0.400	0.346	13.5	102	0.00
33	Chrysene	0.400	0.416	-4.0	118	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.397	0.8	121	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	104	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.348	13.0	92	-0.02
37	Benzo(b)fluoranthene	0.400	0.621	-55.2#	180	-0.02
38	Benzo(k)fluoranthene	0.400	0.458	-14.5	122	-0.02
39 C	Benzo(a)pyrene	0.400	0.373	6.8	102	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.320	20.0	86	-0.02
41	Benzo(g,h,i)perylene	0.400	0.387	3.3	104	-0.03

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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.: P5376 SAS No.: P5376 SDG No.: P5376

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

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024

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	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

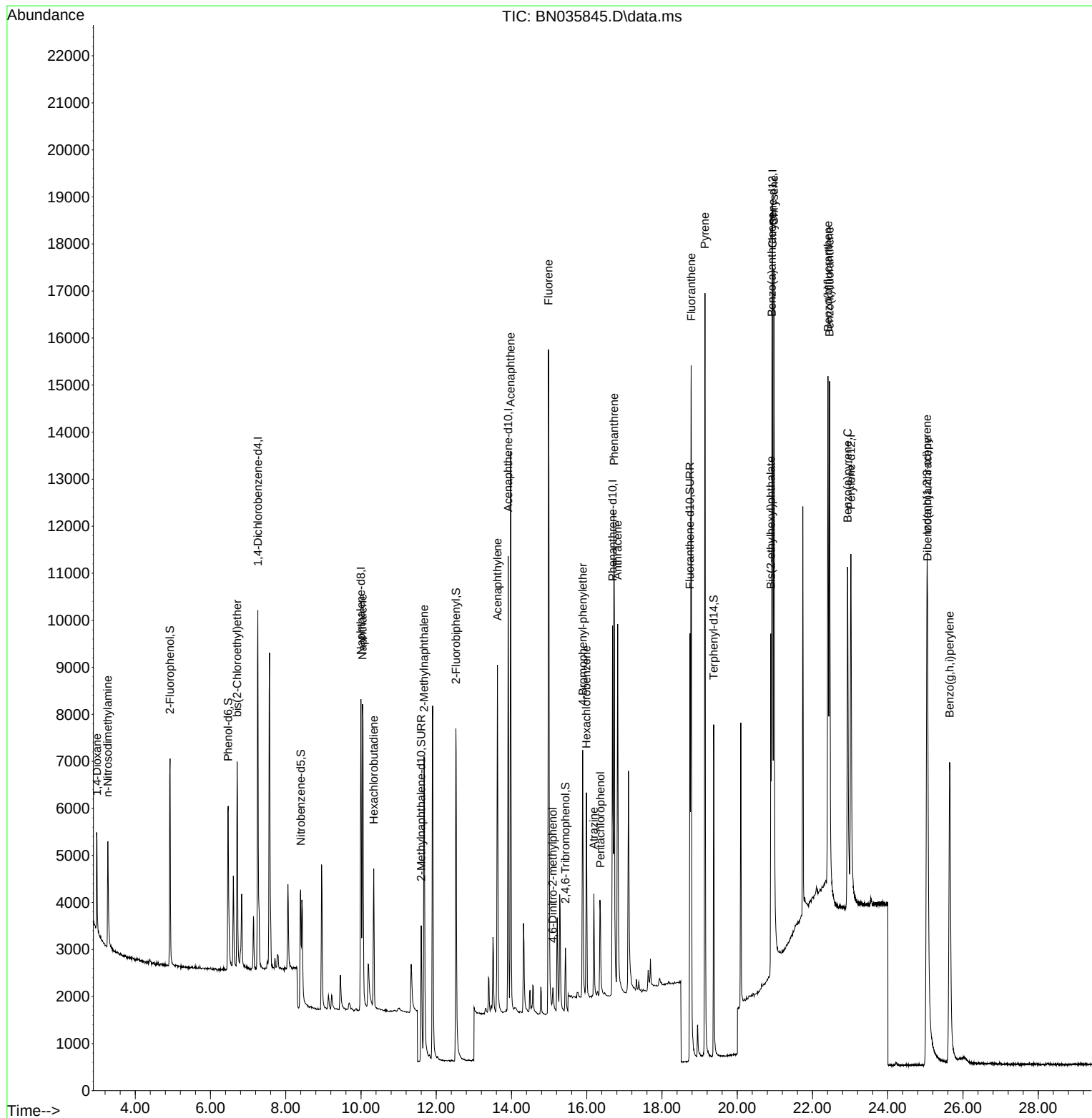
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 Data File : BN035845.D
 Acq On : 26 Dec 2024 09:58
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

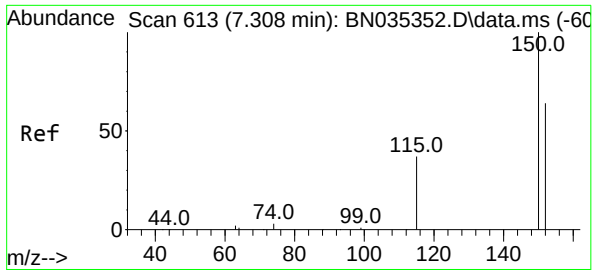
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

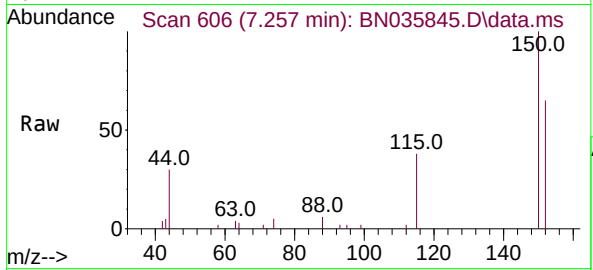
Quant Time: Dec 27 00:40:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

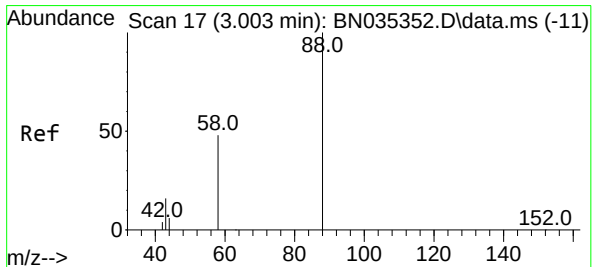
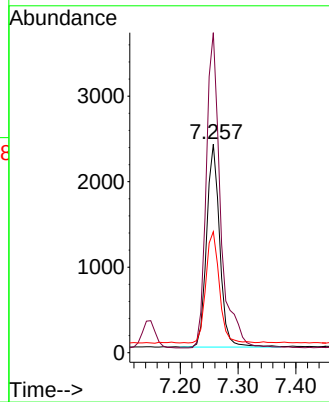
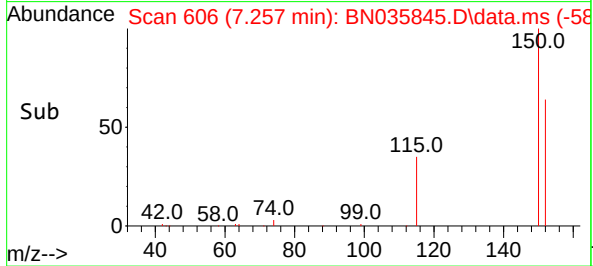
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 375
Ion Ratio Lower Upper
152 100
150 153.5 124.0 186.0
115 58.0 49.6 74.4

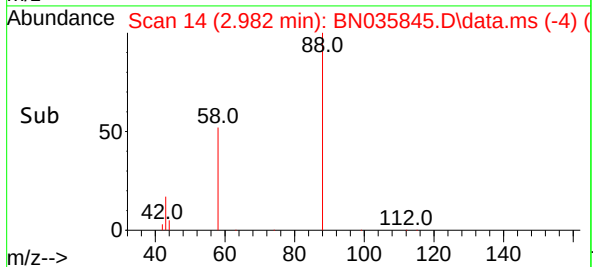
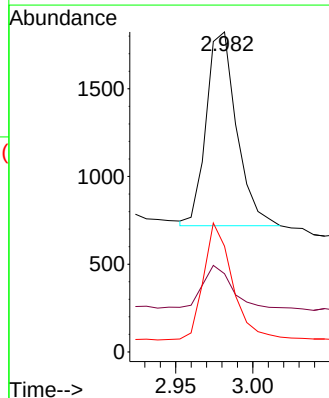
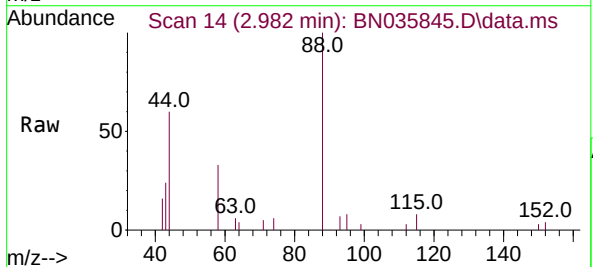
Manual Integrations
APPROVED

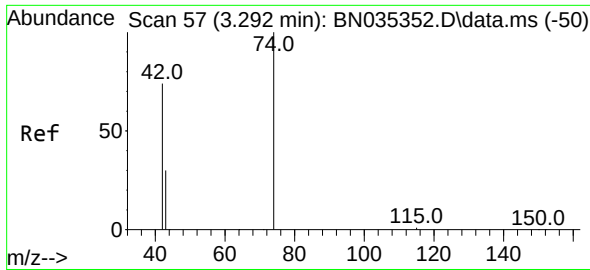
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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





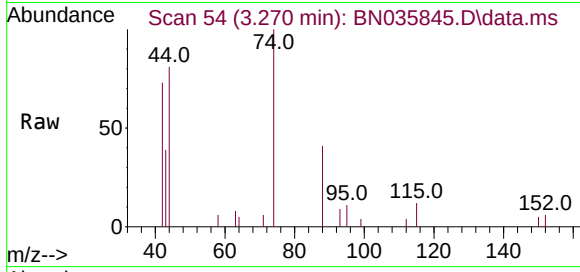
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n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



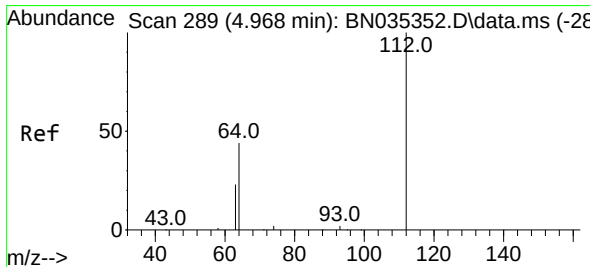
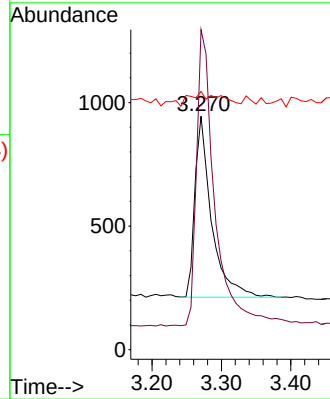
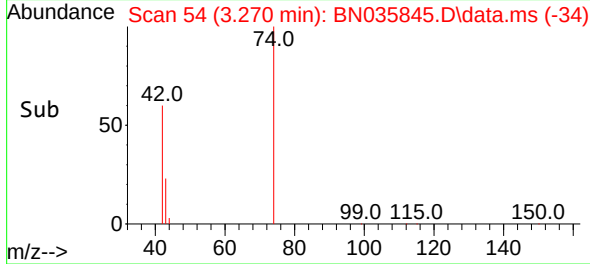
Tgt Ion: 42 Resp: 122
Ion Ratio Lower Upper
42 100
74 179.4 124.9 187.3
44 16.9 2.2 3.4

Manual Integrations

APPROVED

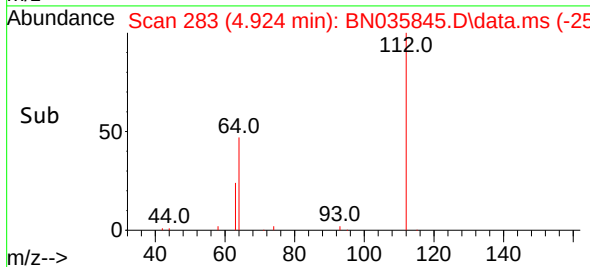
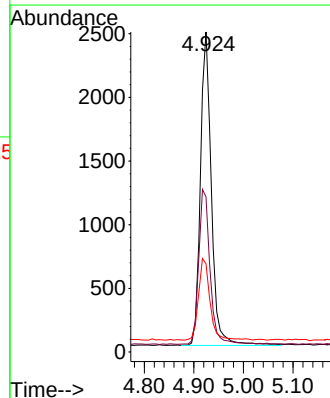
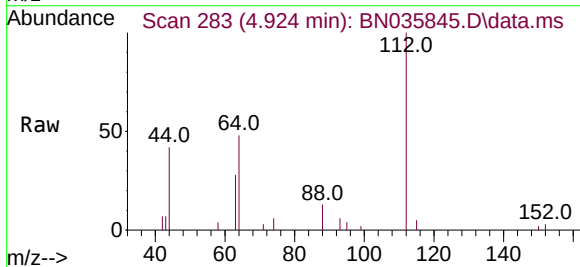
Reviewed By :Yogesh Patel 12/27/2024

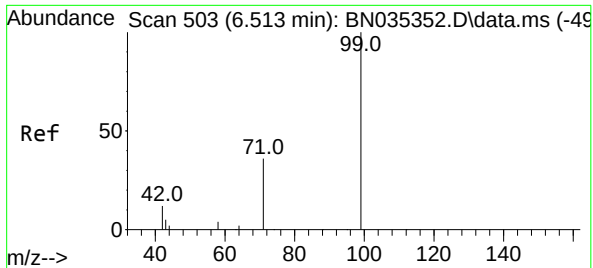
Supervised By :mohammad ahmed 12/30/2024



#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

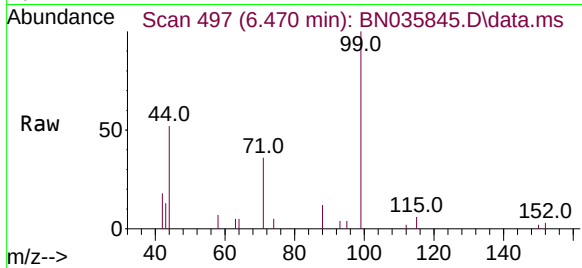
Tgt Ion:112 Resp: 3777
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 27.5 21.0 31.6





#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

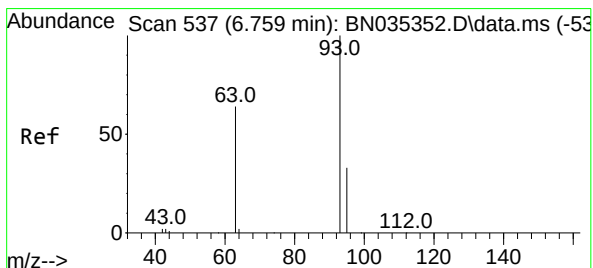
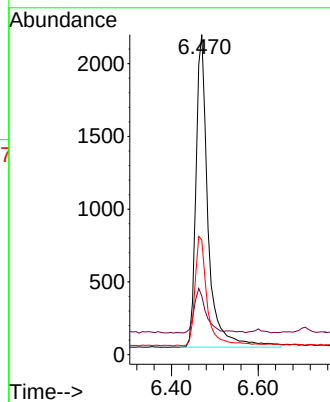
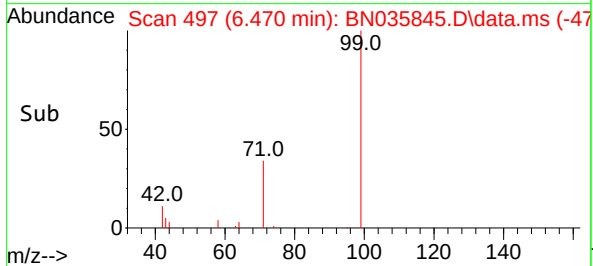
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 4179
Ion Ratio Lower Upper
99 100
42 14.0 11.4 17.2
71 35.3 29.3 43.9

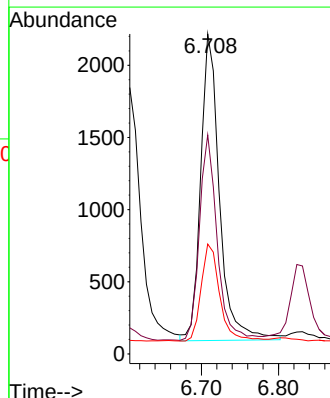
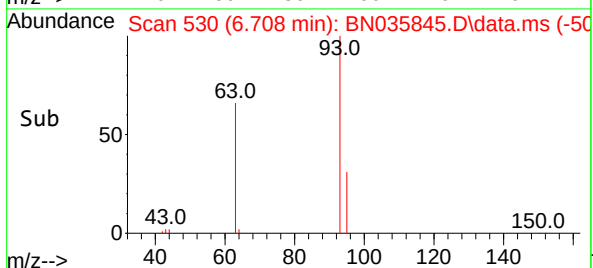
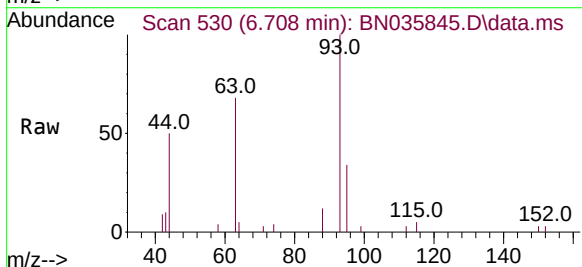
Manual Integrations
APPROVED

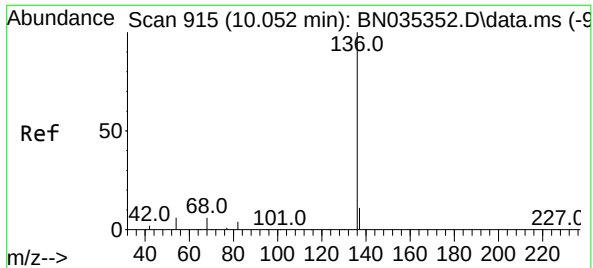
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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





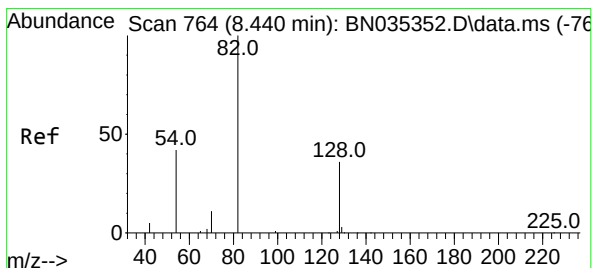
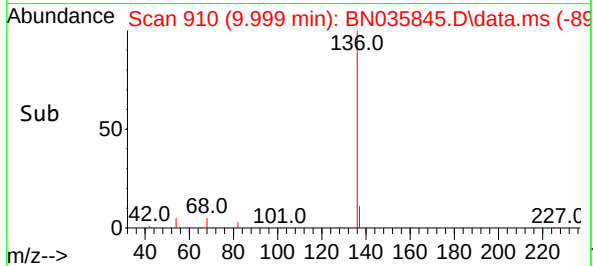
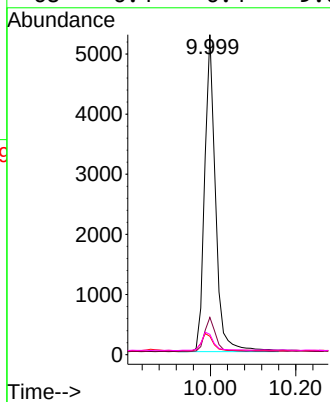
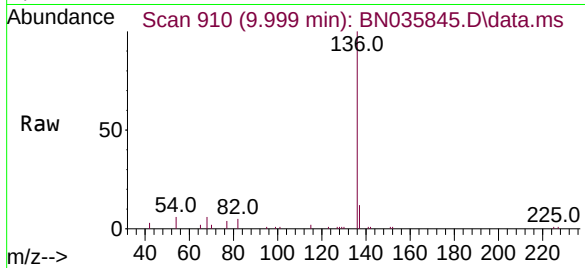
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt 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

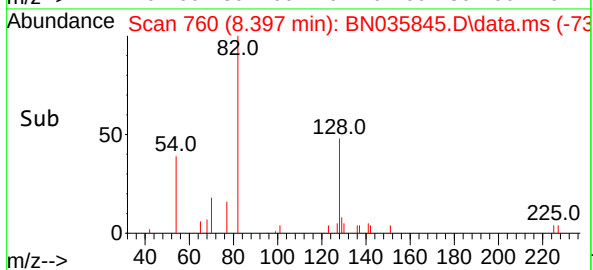
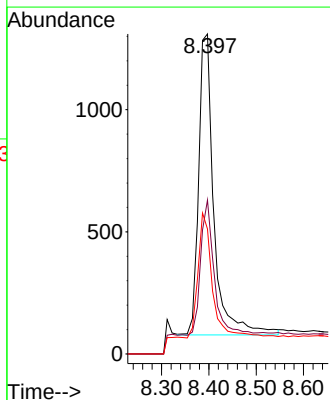
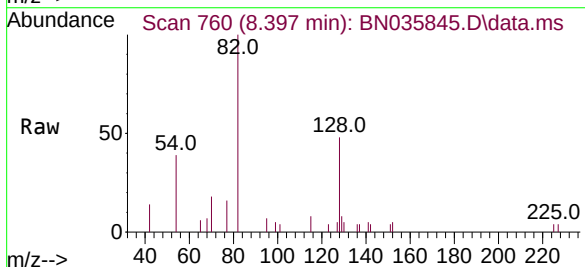
Manual Integrations
APPROVED

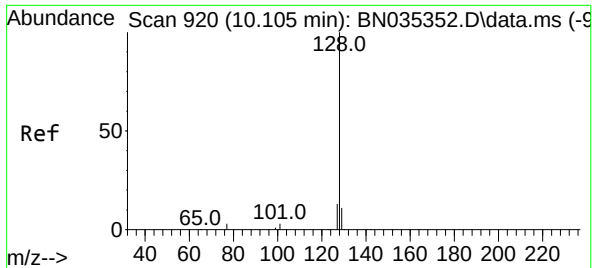
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1





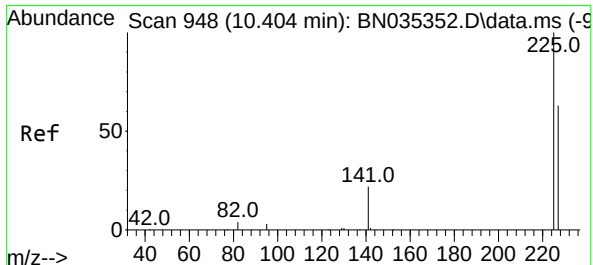
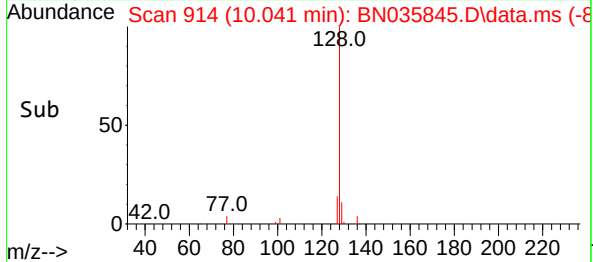
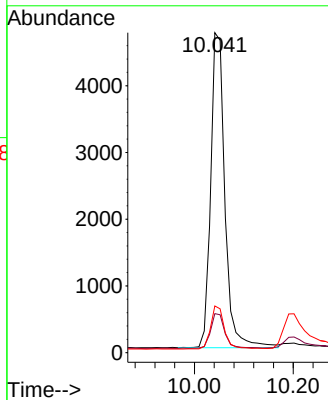
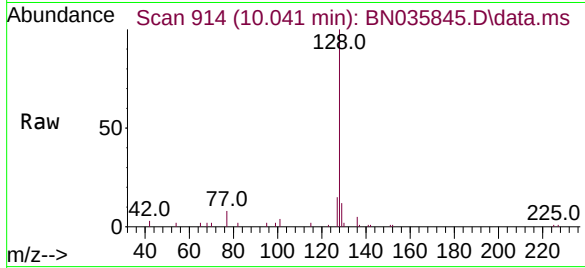
#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

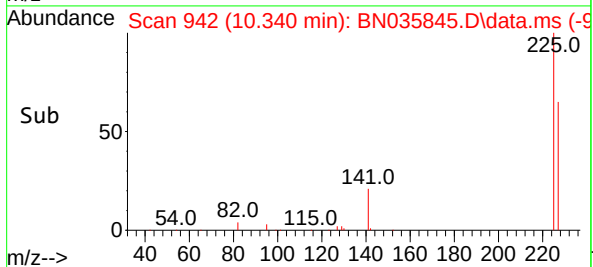
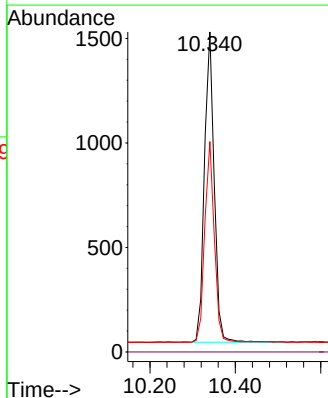
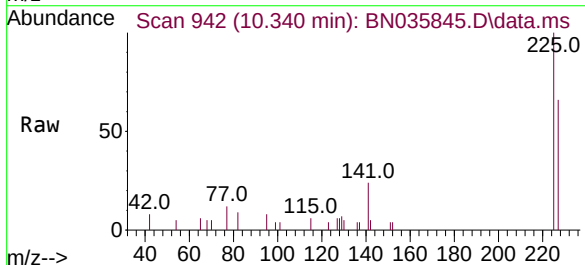
Manual Integrations
APPROVED

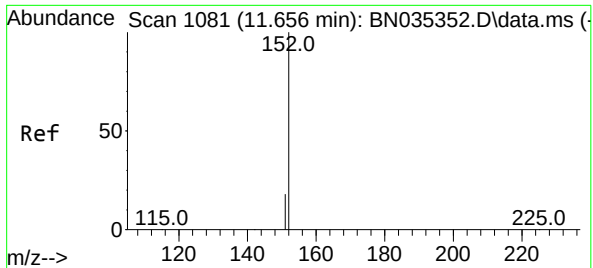
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

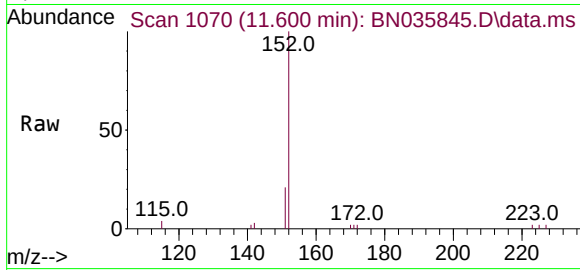
Tgt Ion:225 Resp: 2352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1080
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

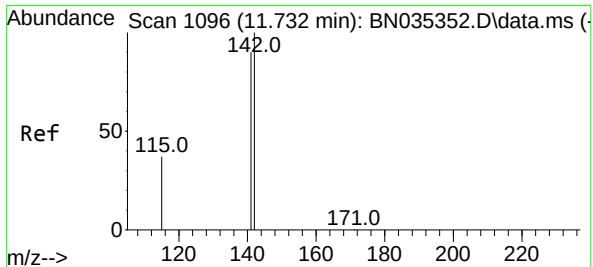
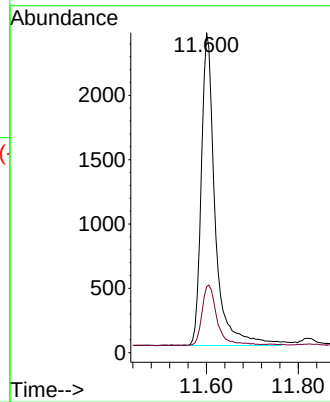
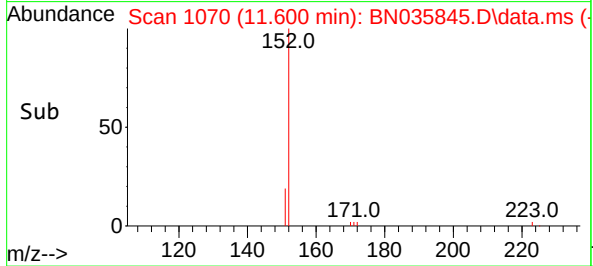
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 5080
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

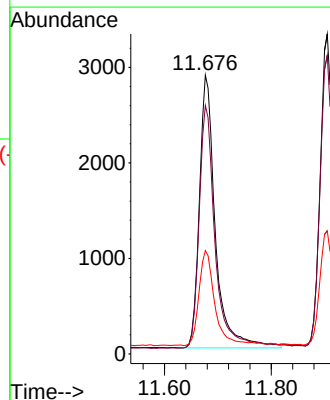
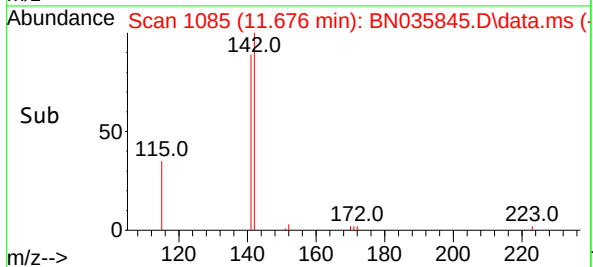
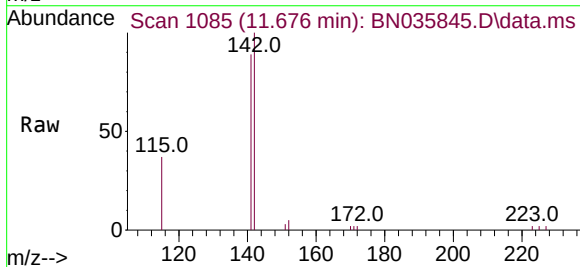
Manual Integrations
APPROVED

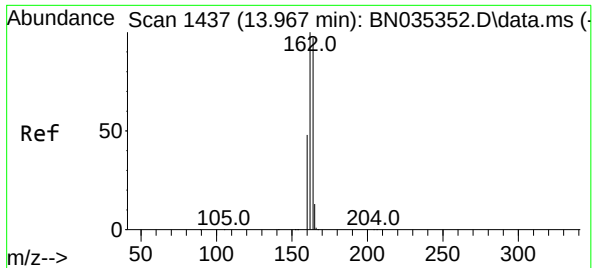
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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





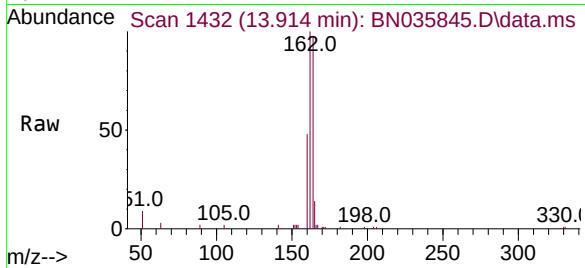
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



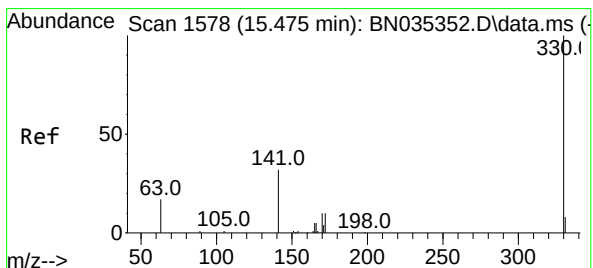
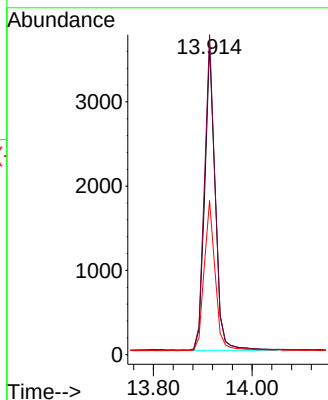
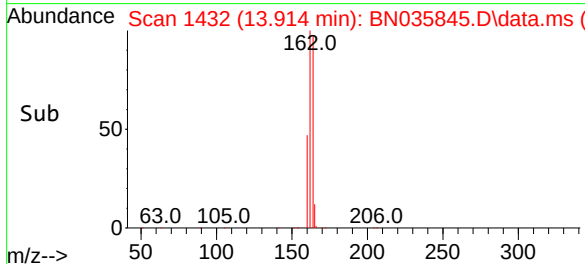
Tgt Ion:164 Resp: 538
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 49.7 40.1 60.1

Manual Integrations

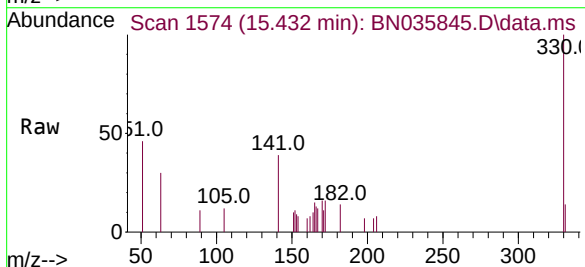
APPROVED

Reviewed By :Yogesh Patel 12/27/2024

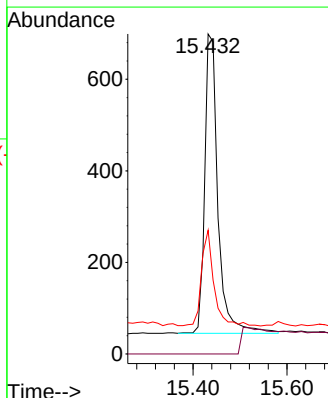
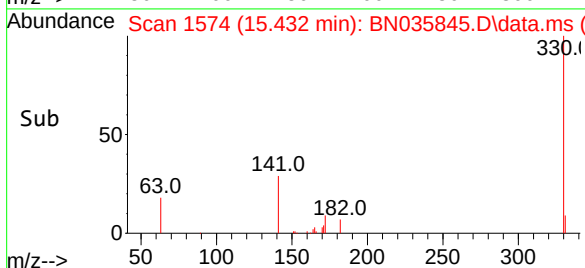
Supervised By :mohammad ahmed 12/30/2024

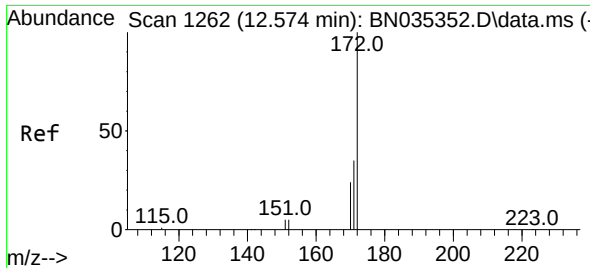


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



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





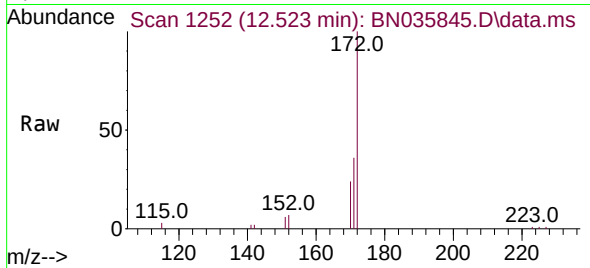
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



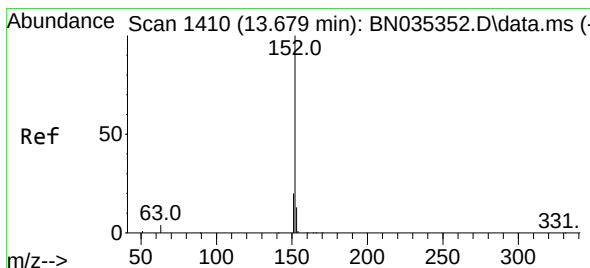
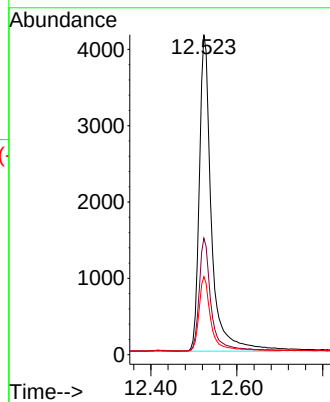
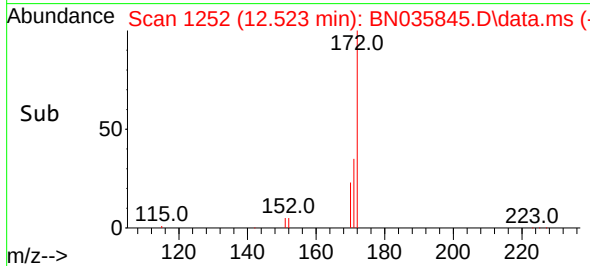
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

Manual Integrations

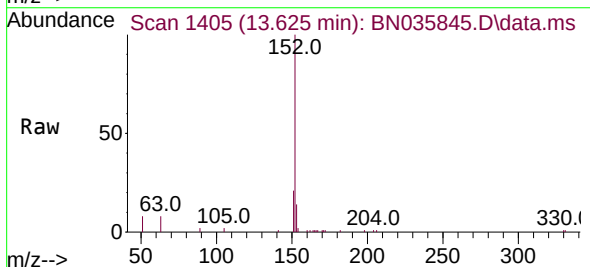
APPROVED

Reviewed By :Yogesh Patel 12/27/2024

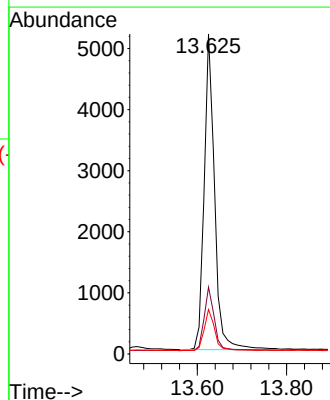
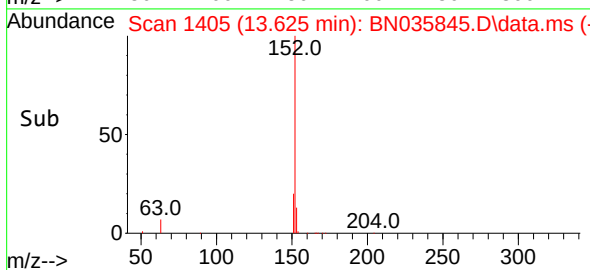
Supervised By :mohammad ahmed 12/30/2024

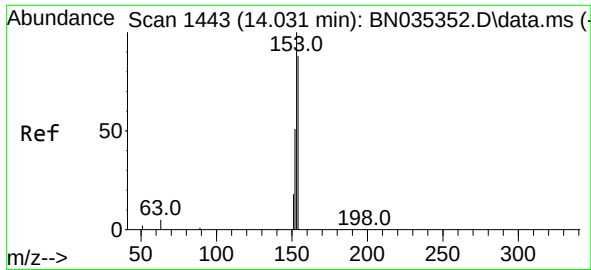


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



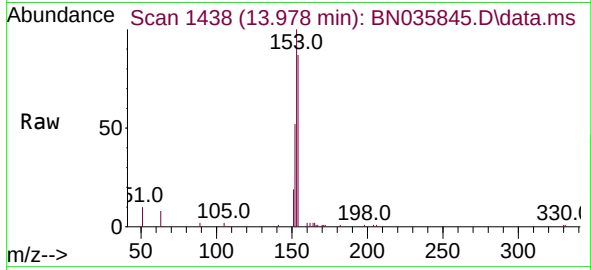
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6





#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

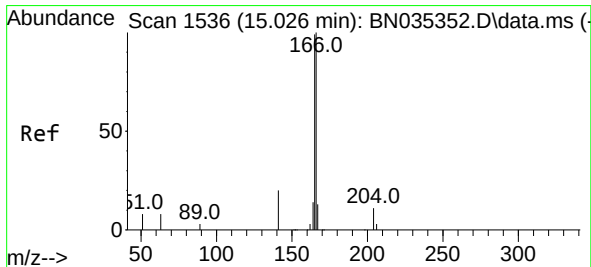
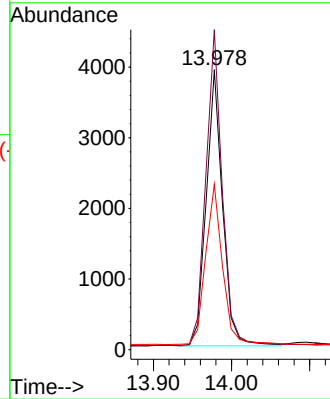
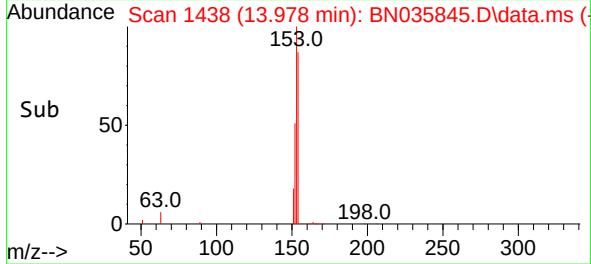
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 569
Ion Ratio Lower Upper
154 100
153 116.1 92.6 139.0
152 60.4 49.0 73.6

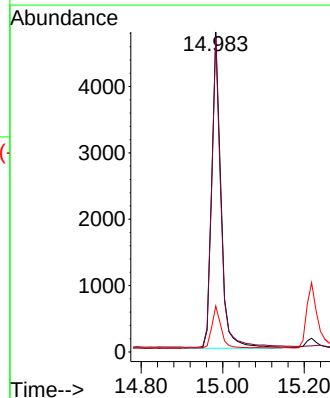
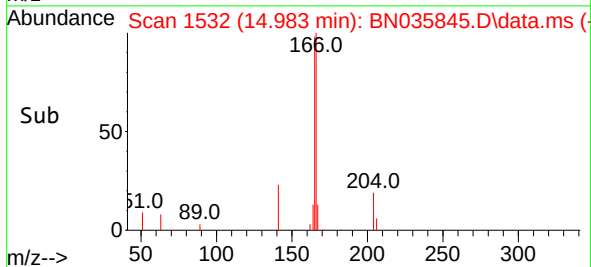
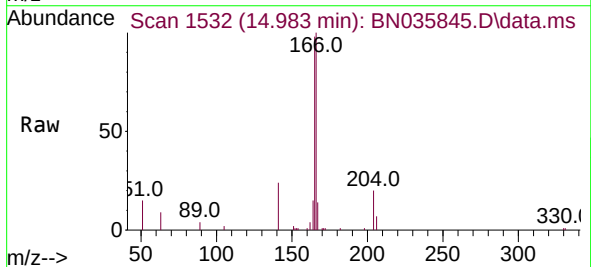
Manual Integrations
APPROVED

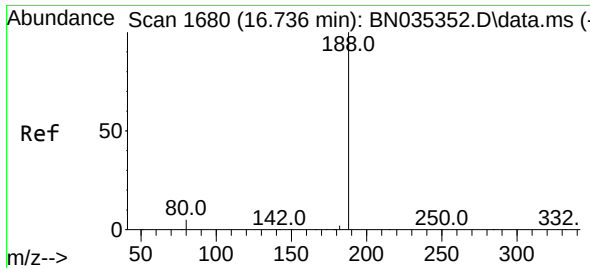
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

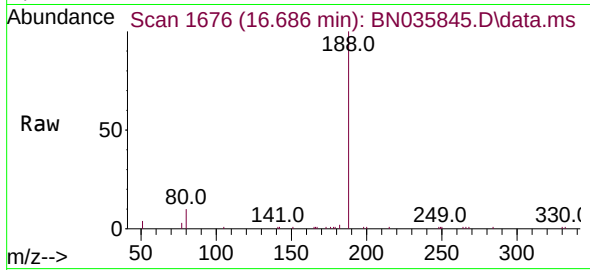
Tgt Ion:166 Resp: 7523
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.4 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1126
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

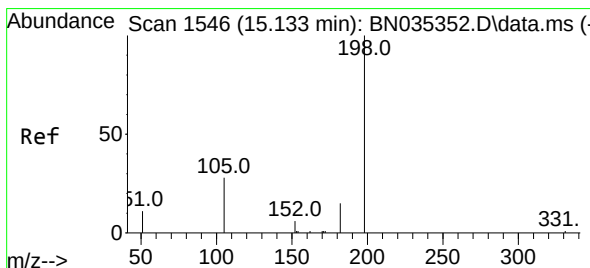
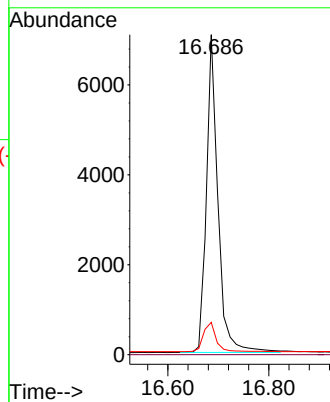
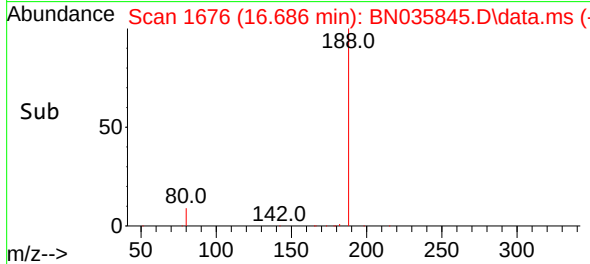
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 1126
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 4.6 6.8

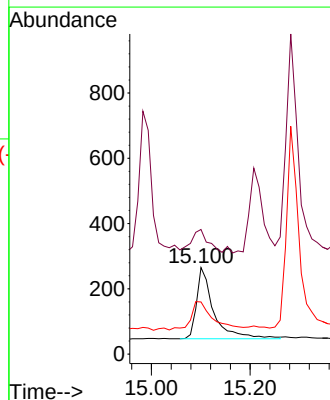
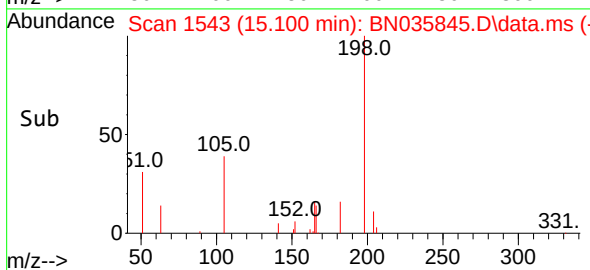
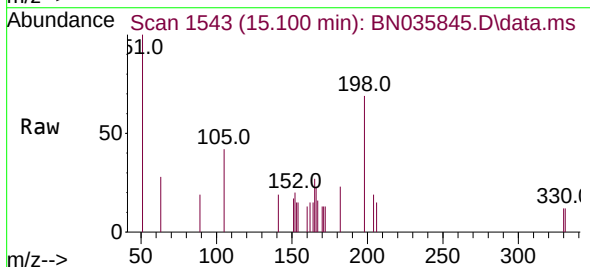
Manual Integrations
APPROVED

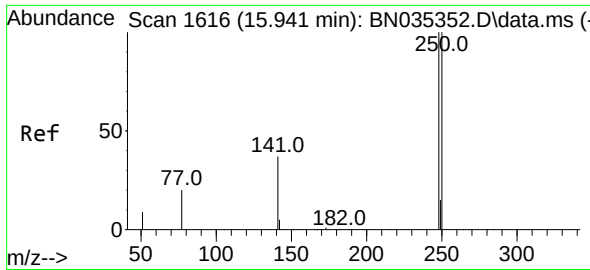
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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





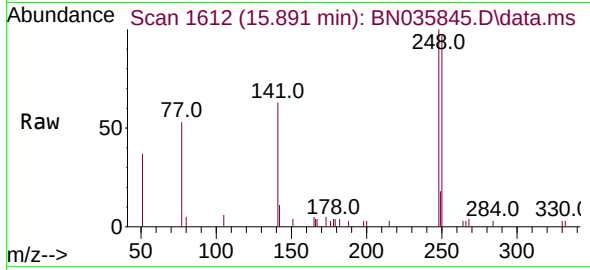
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



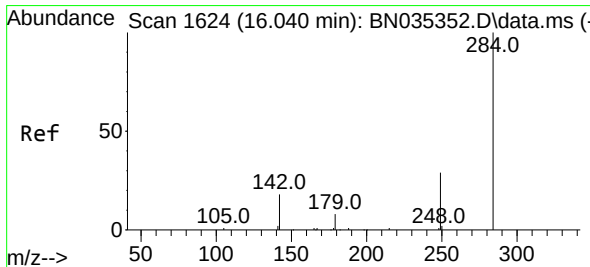
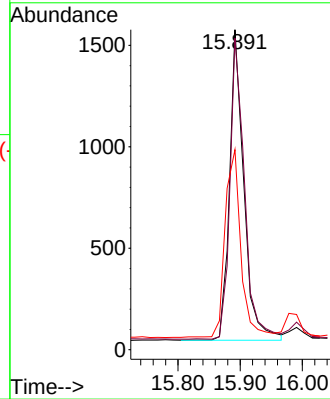
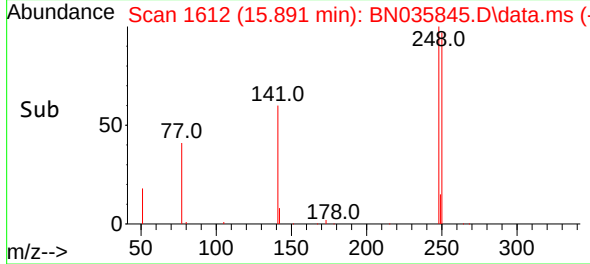
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3

Manual Integrations

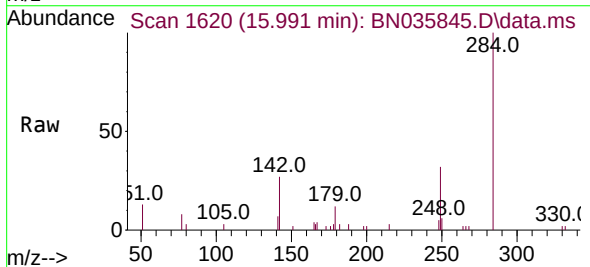
APPROVED

Reviewed By :Yogesh Patel 12/27/2024

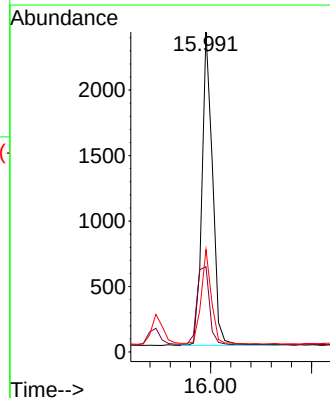
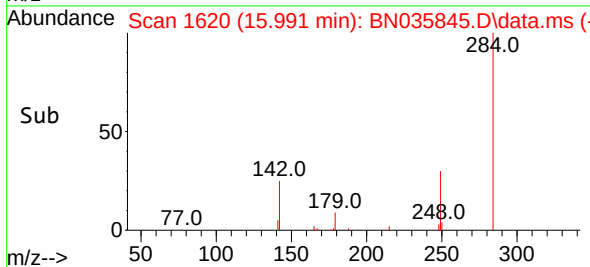
Supervised By :mohammad ahmed 12/30/2024

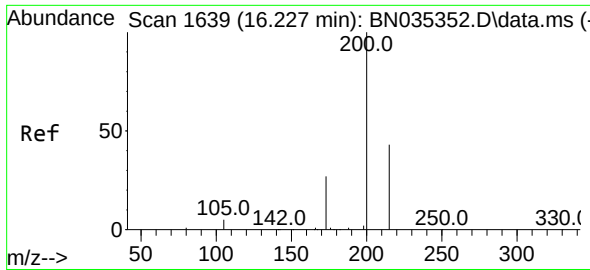


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



Tgt Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8





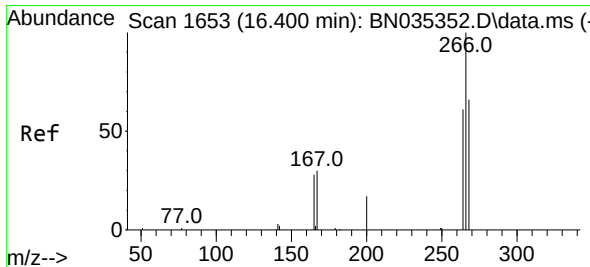
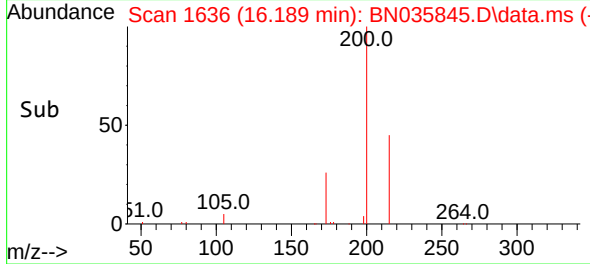
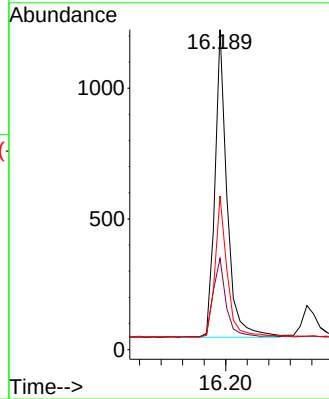
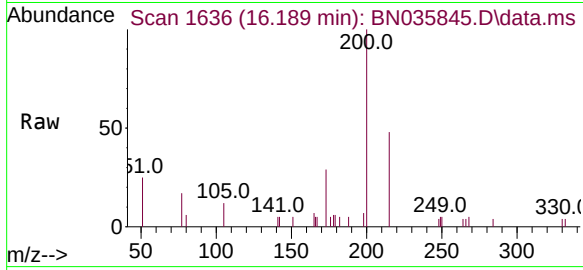
#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 184
Ion Ratio Lower Upper
200 100
173 28.5 24.1 36.1
215 48.0 36.9 55.3

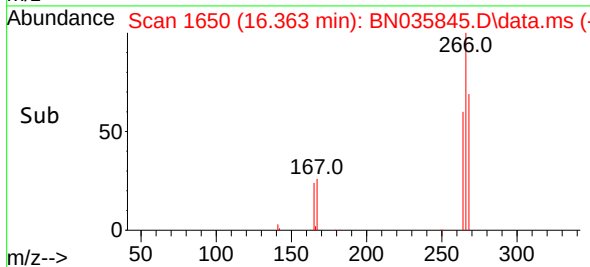
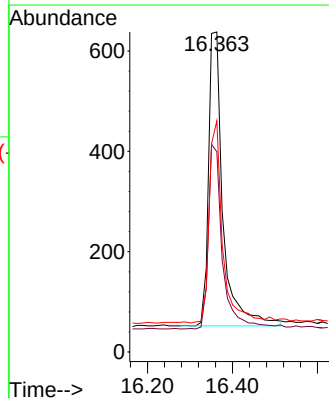
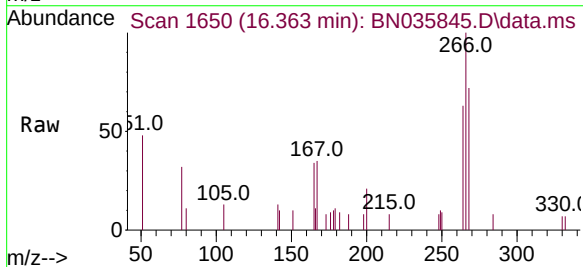
Manual Integrations
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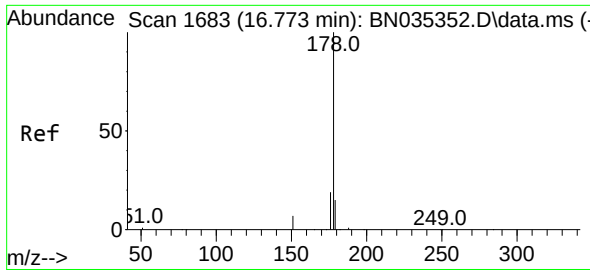
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

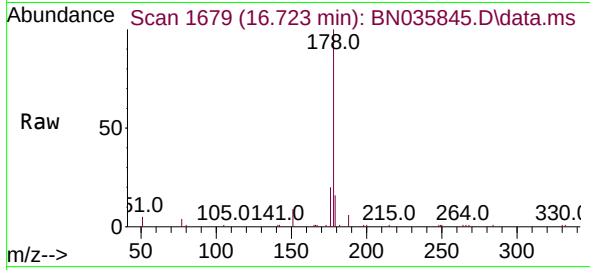
Tgt Ion:266 Resp: 1383
Ion Ratio Lower Upper
266 100
264 61.3 42.3 63.5
268 63.8 43.3 64.9





#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1682
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

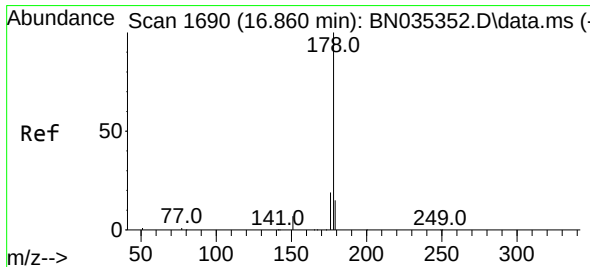
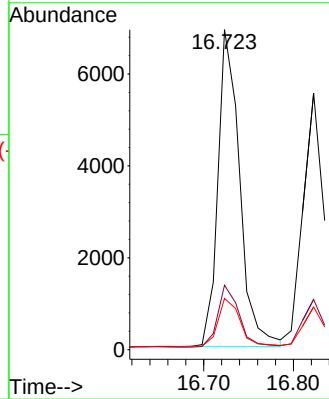
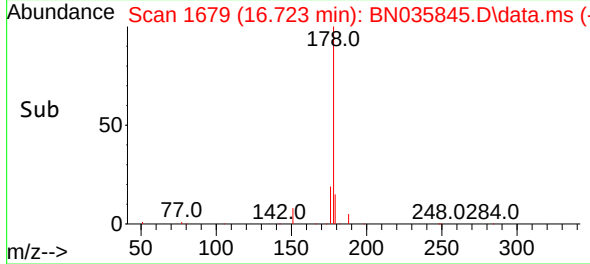
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

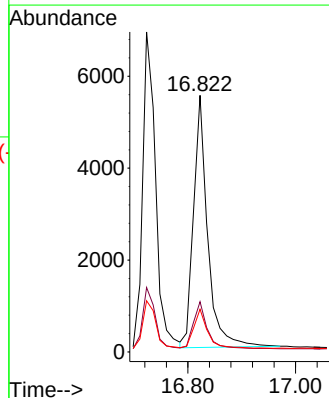
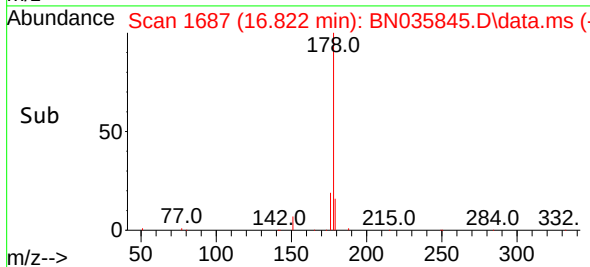
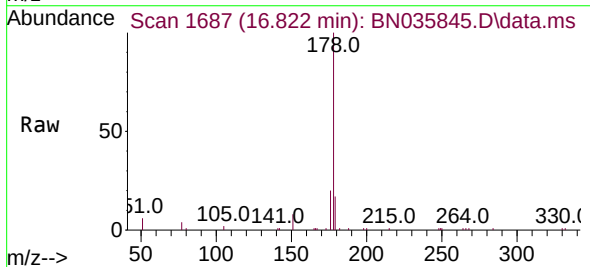
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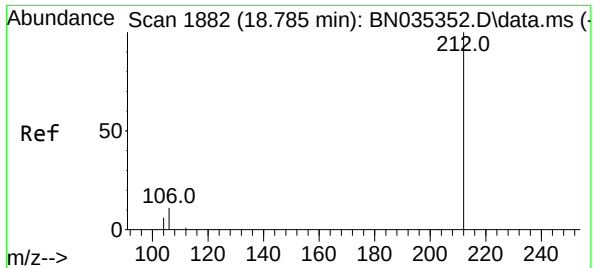
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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# 1873

Delta R.T. -0.019 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

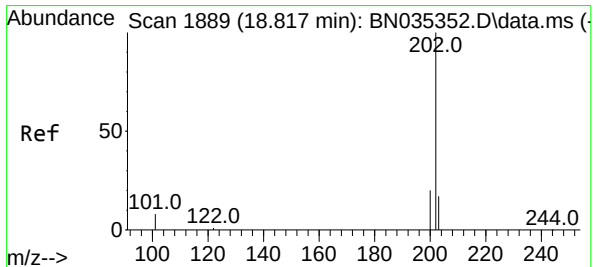
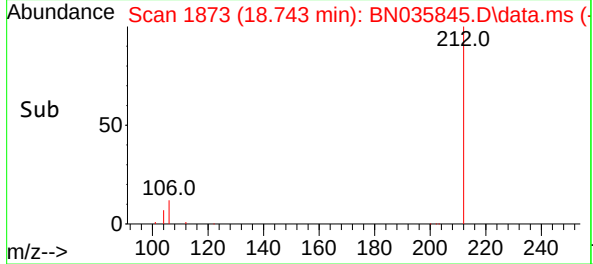
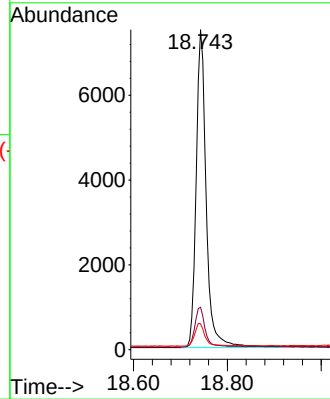
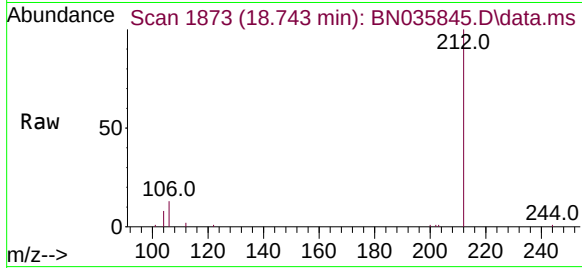
Tgt Ion:	212	Resp:	1116
Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.4	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#28

Fluoranthene

Concen: 0.347 ng

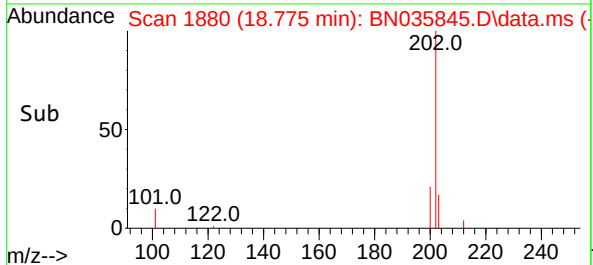
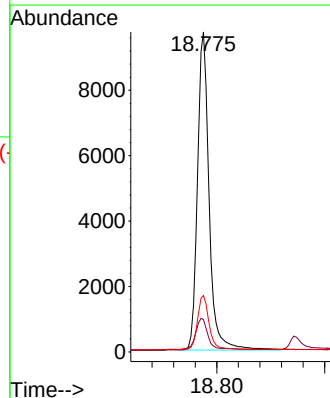
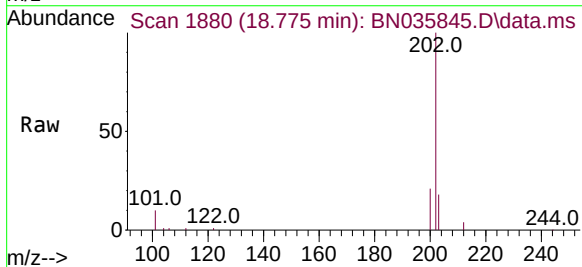
RT: 18.775 min Scan# 1880

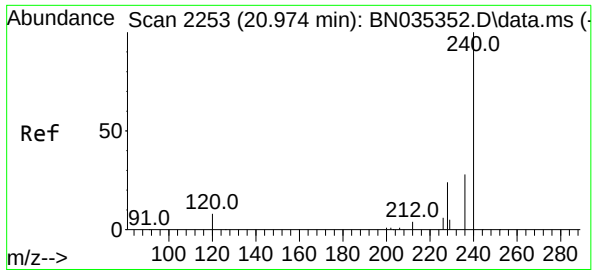
Delta R.T. -0.014 min

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# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

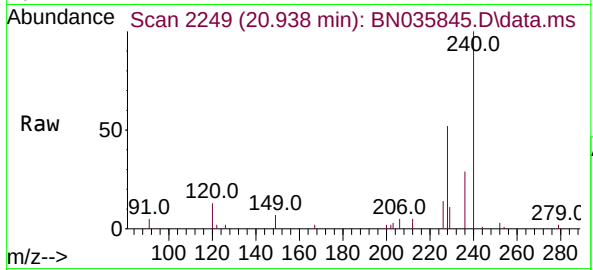
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



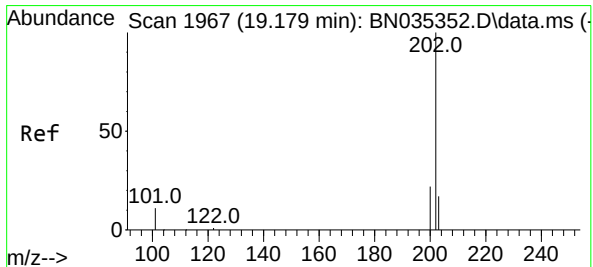
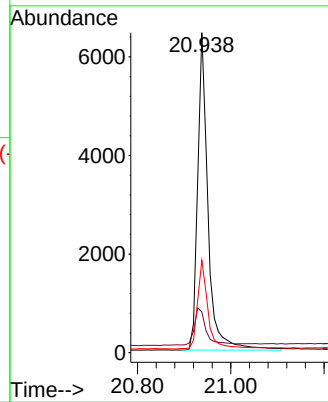
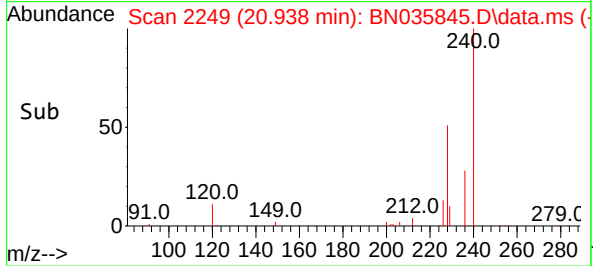
Tgt Ion:	240	Resp:	993
Ion Ratio	Lower	Upper	
240	100		
120	12.7	7.9	11.9
236	28.9	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#30

Pyrene

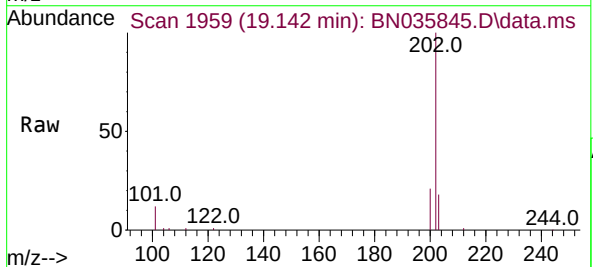
Concen: 0.417 ng

RT: 19.142 min Scan# 1959

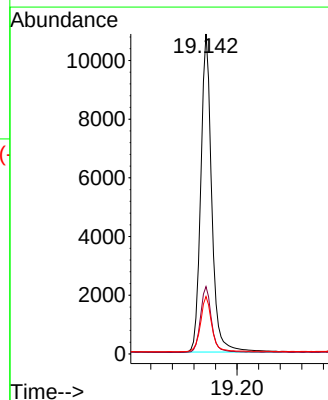
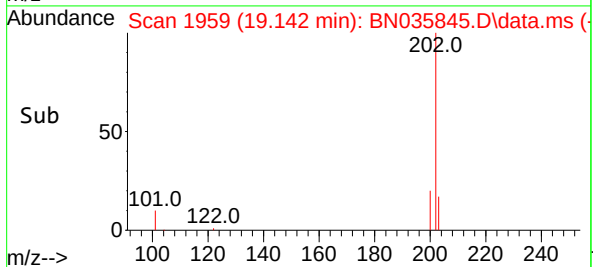
Delta R.T. -0.019 min

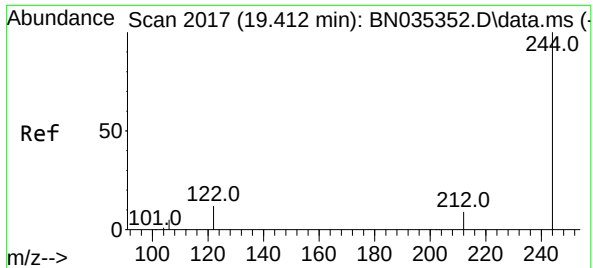
Lab File: BN035845.D

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# 2017
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

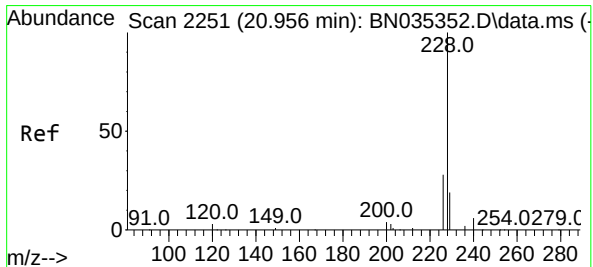
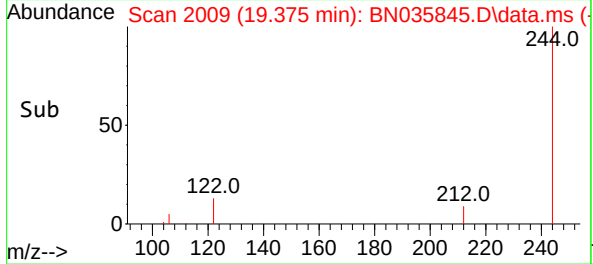
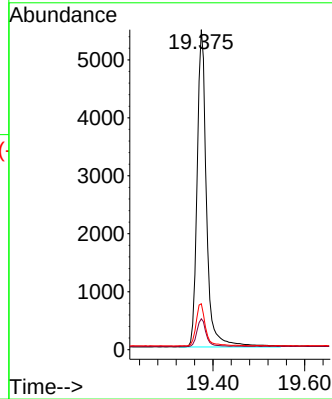
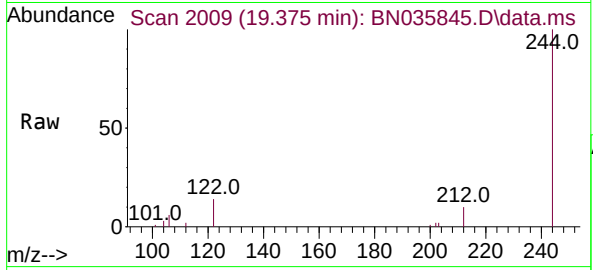
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

Manual Integrations

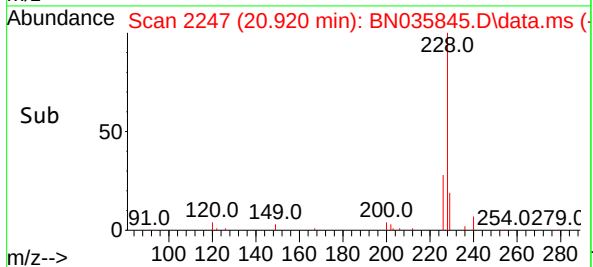
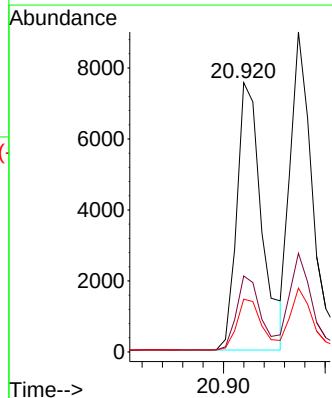
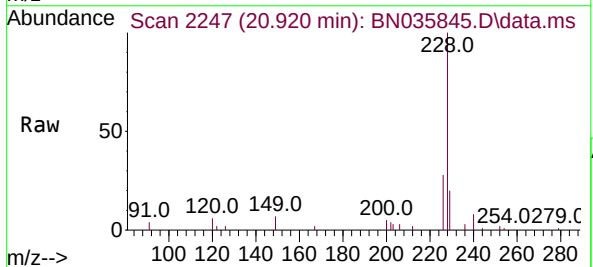
APPROVED

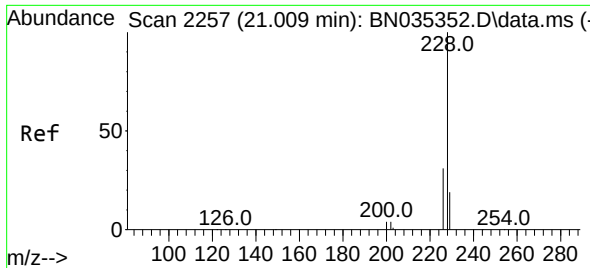
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

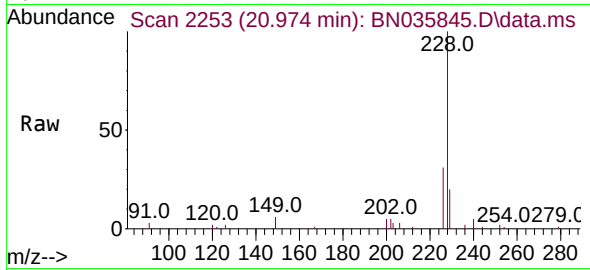
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8





#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2100
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

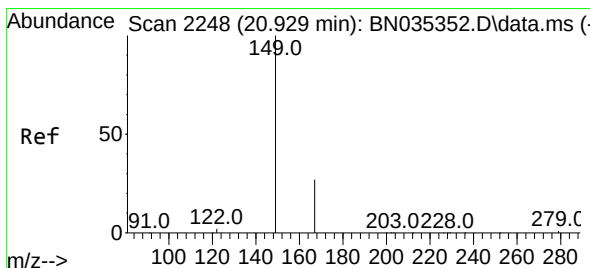
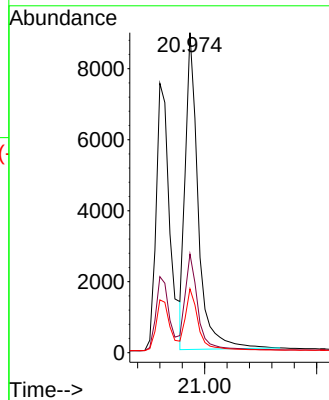
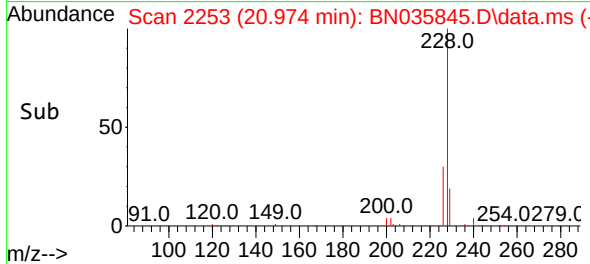
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

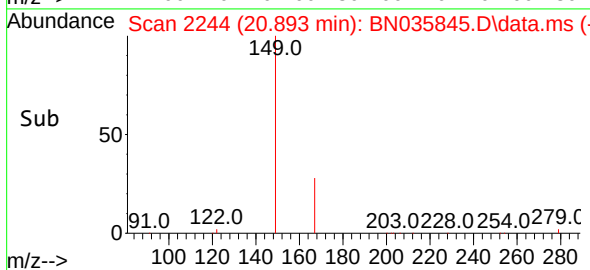
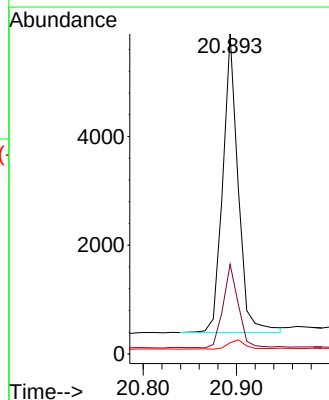
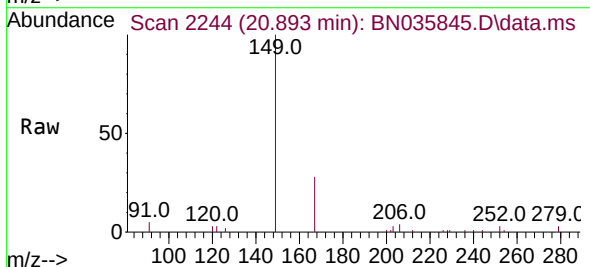
Manual Integrations
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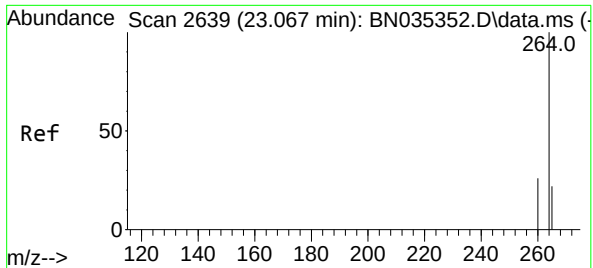
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

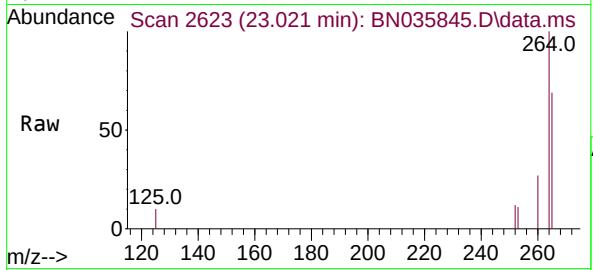
Tgt Ion:149 Resp: 6282
Ion Ratio Lower Upper
149 100
167 27.6 22.2 33.4
279 3.4 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2623
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

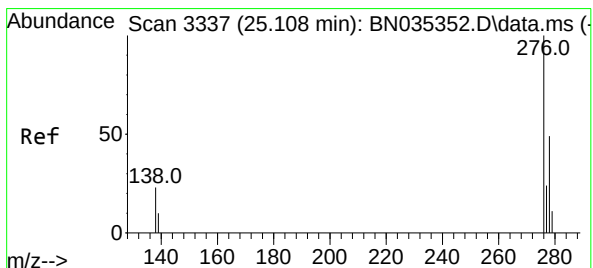
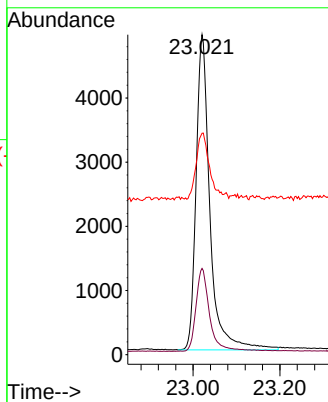
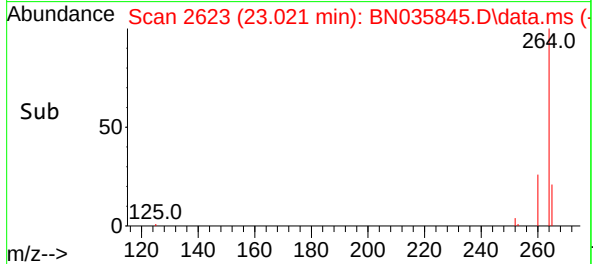
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 1081
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 69.2 40.2 60.4

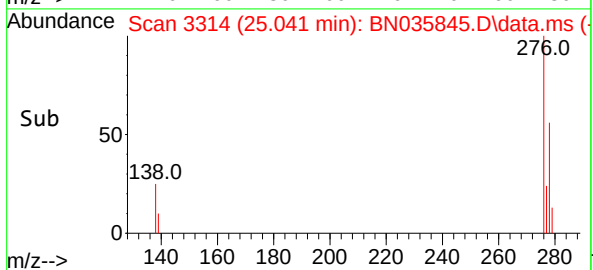
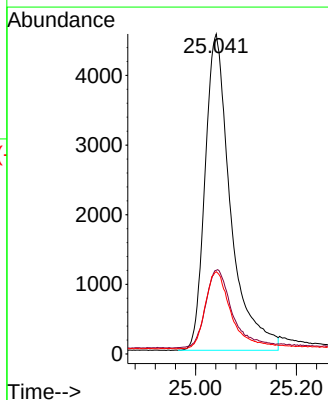
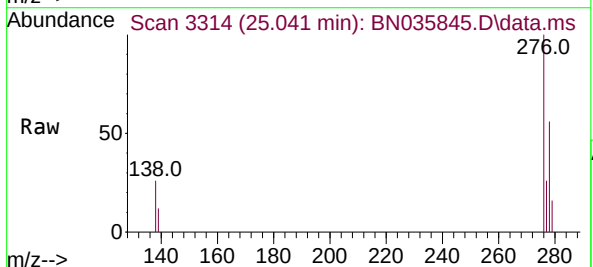
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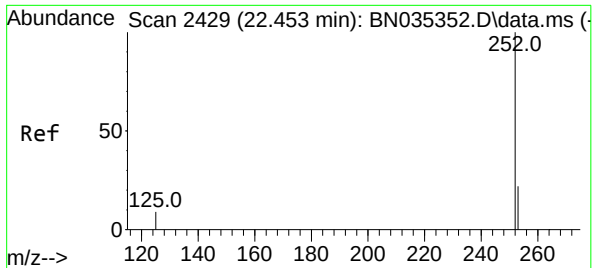
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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# 2415

Delta R.T. -0.018 min

Lab File: BN035845.D

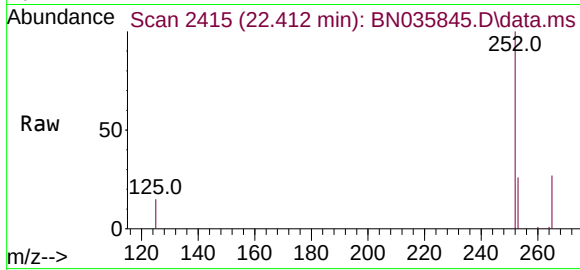
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



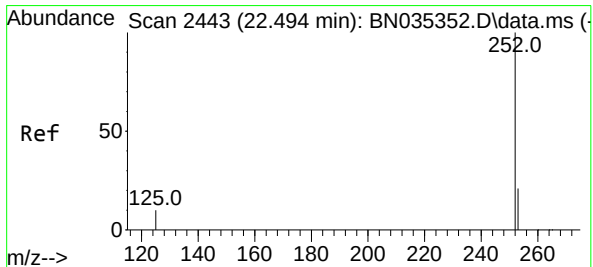
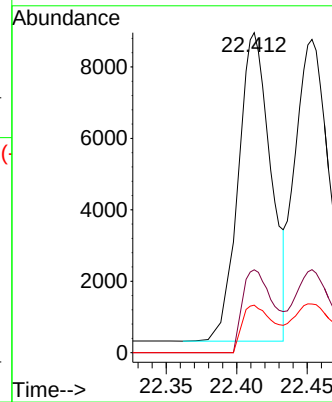
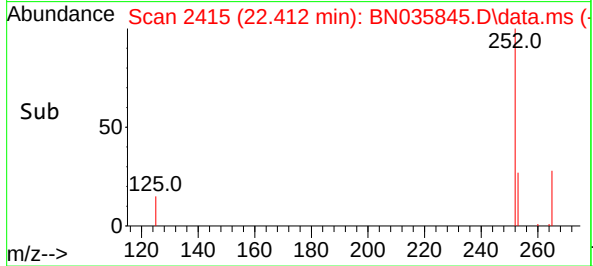
Tgt Ion:	252	Resp:	1956
Ion Ratio	Lower	Upper	
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#38

Benzo(k)fluoranthene

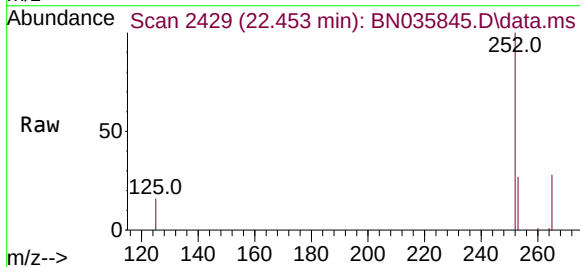
Concen: 0.423 ng m

RT: 22.453 min Scan# 2429

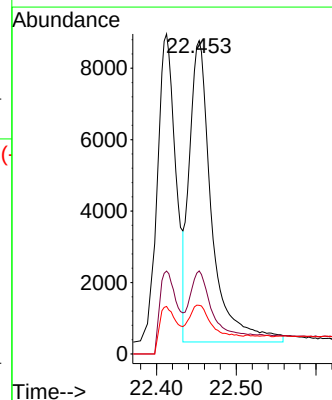
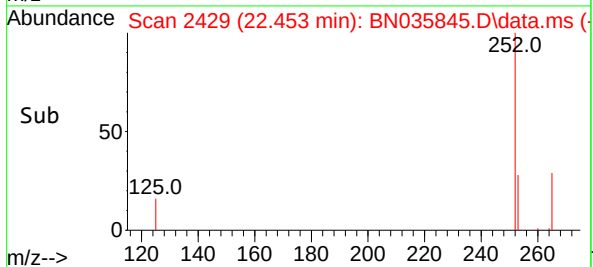
Delta R.T. -0.018 min

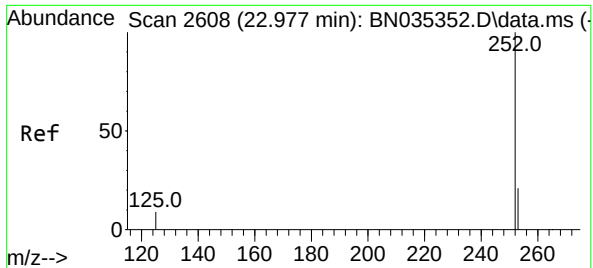
Lab File: BN035845.D

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# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

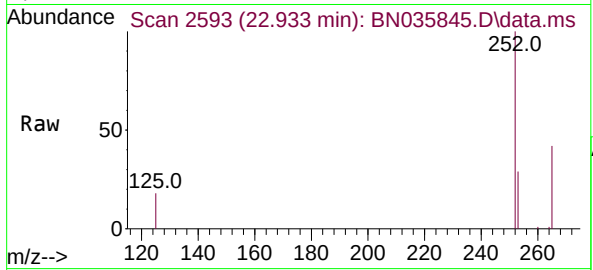
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 12458

Ion Ratio Lower Upper

252 100

253 28.6 20.2 30.4

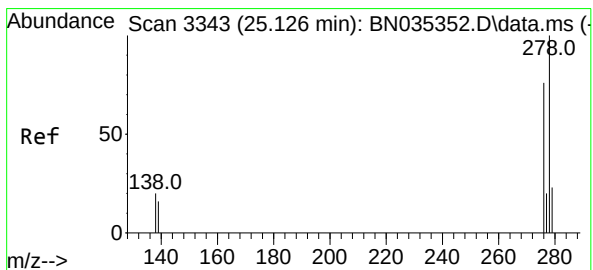
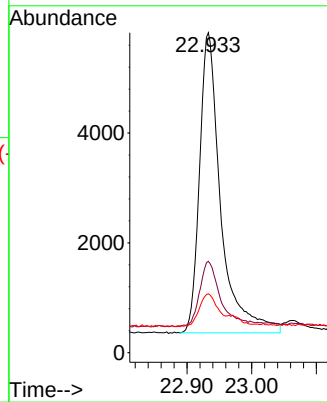
125 18.4 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#40

Dibenzo(a,h)anthracene

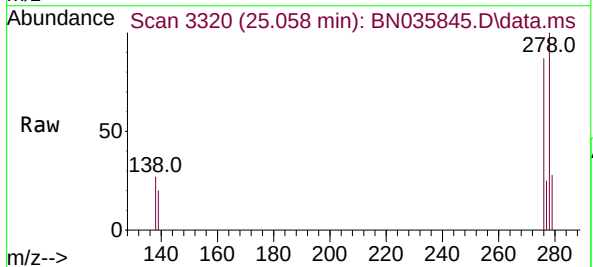
Concen: 0.380 ng

RT: 25.058 min Scan# 3320

Delta R.T. -0.024 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58



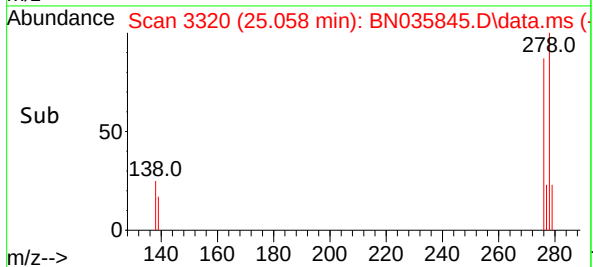
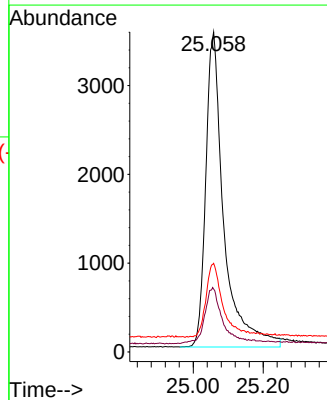
Tgt Ion:278 Resp: 12678

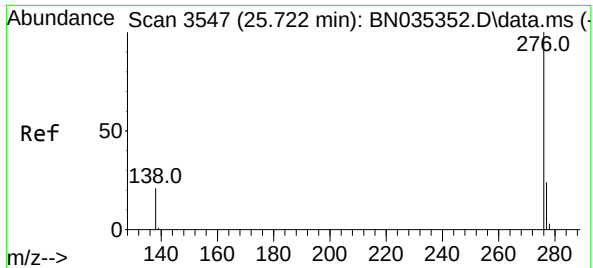
Ion Ratio Lower Upper

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# 31

Delta R.T. -0.032 min

Lab File: BN035845.D

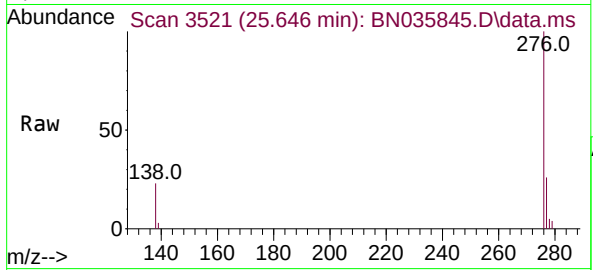
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 14614

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

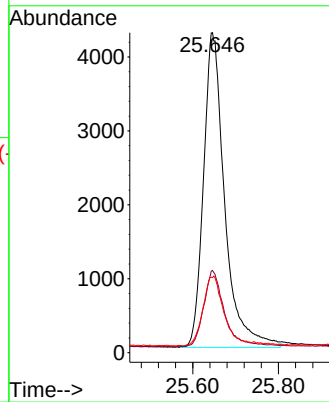
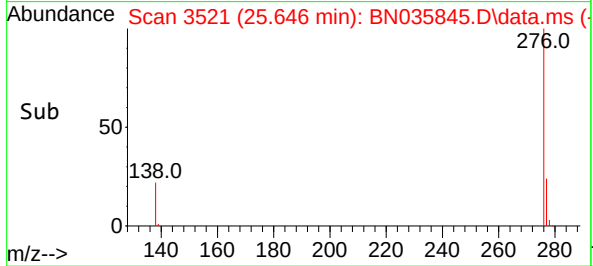
138 23.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



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

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



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.: P5376 SAS No.: P5376 SDG No.: P5376

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 12/30/2024

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

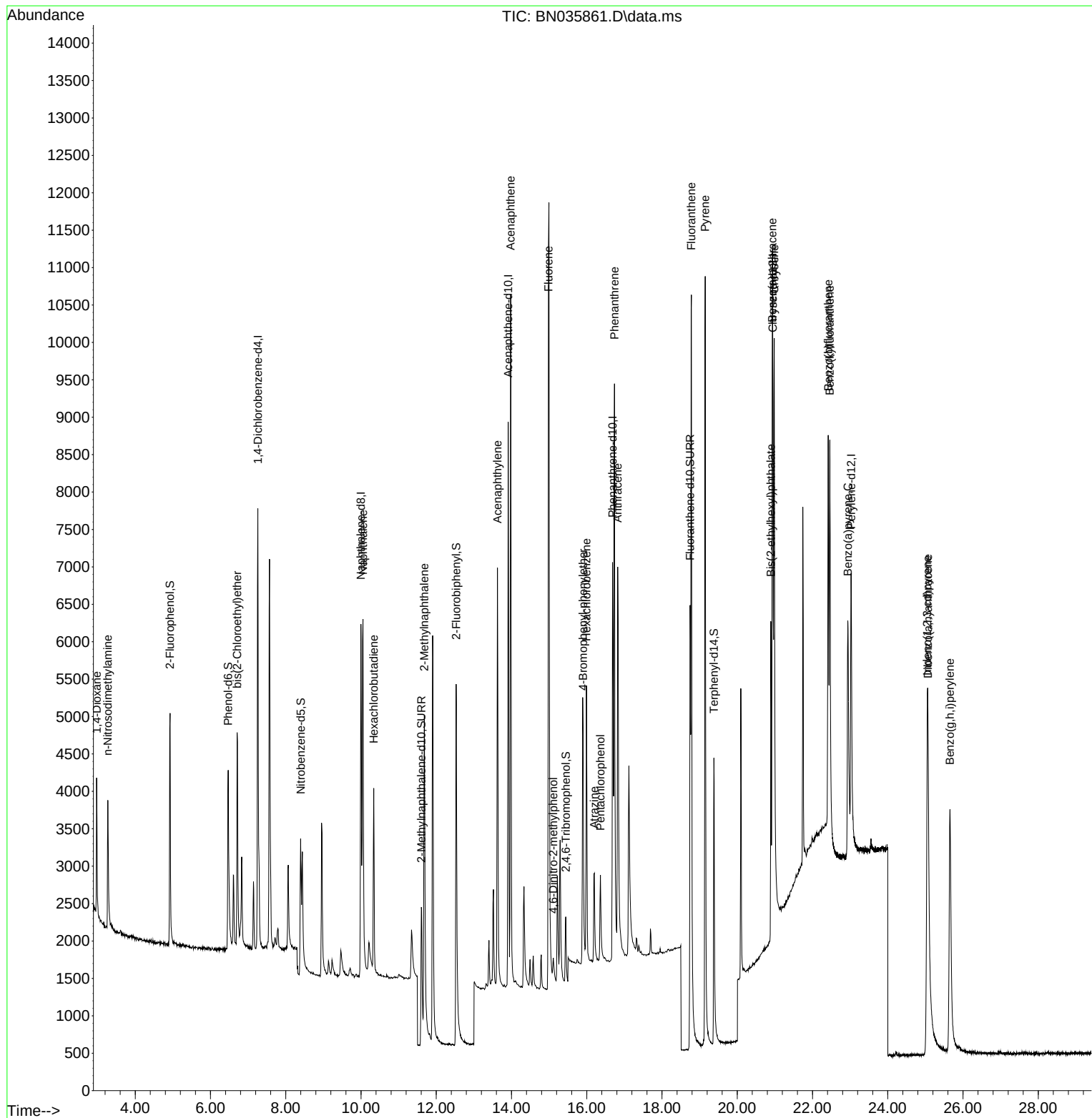
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

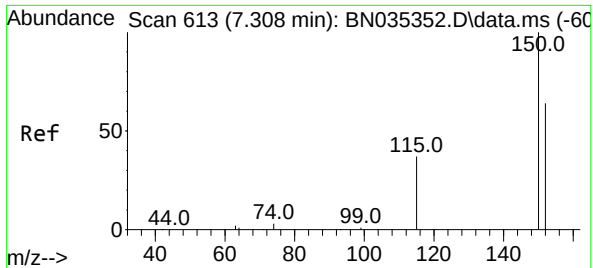
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

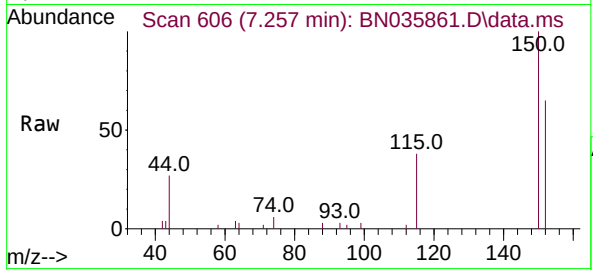
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

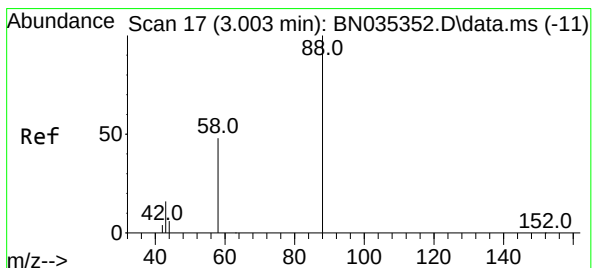
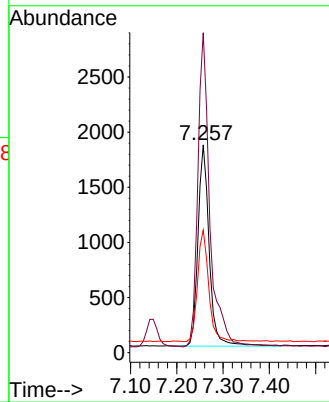
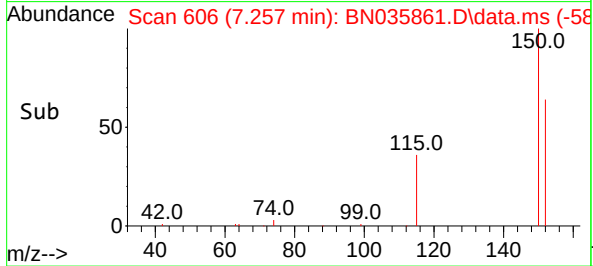
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 308
Ion Ratio Lower Upper
152 100
150 154.0 124.0 186.0
115 58.9 49.6 74.4

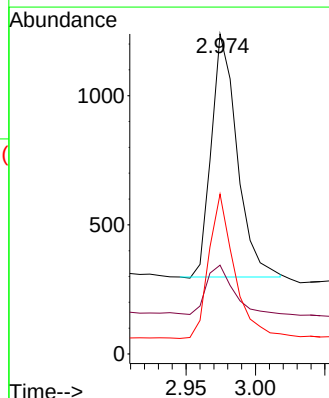
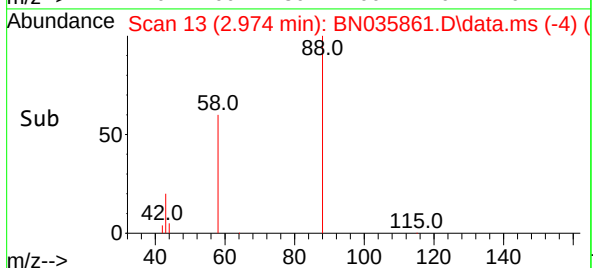
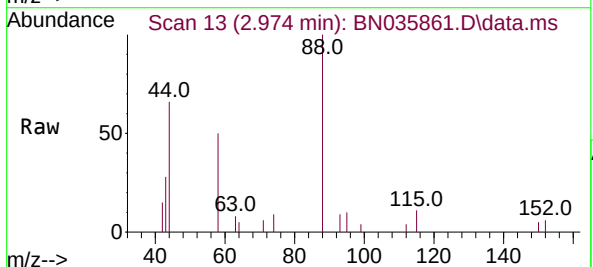
Manual Integrations
APPROVED

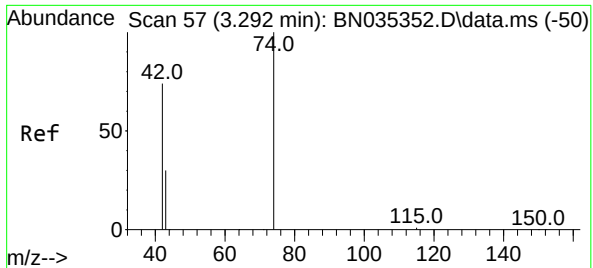
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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





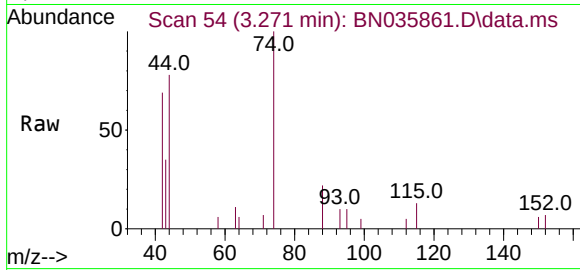
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

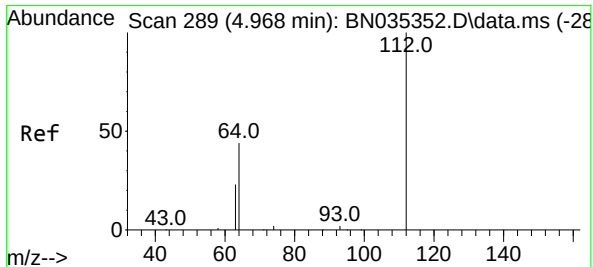
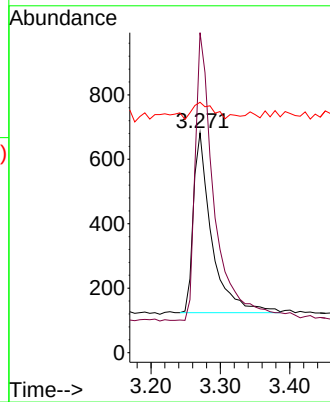
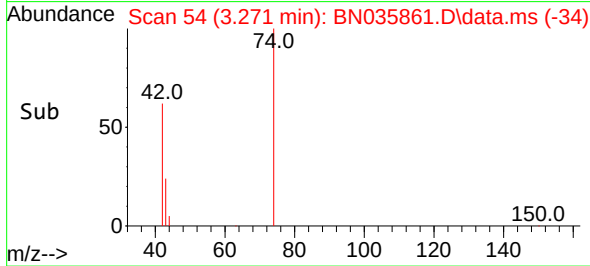


Tgt Ion: 42 Resp: 102
Ion Ratio Lower Upper
42 100
74 169.1 124.9 187.3
44 10.6 2.2 3.4

Manual Integrations

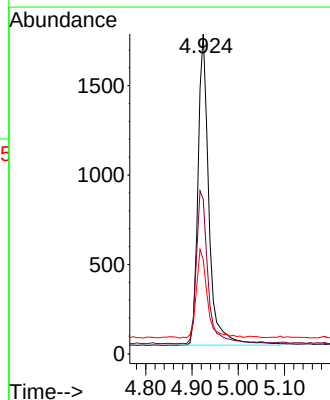
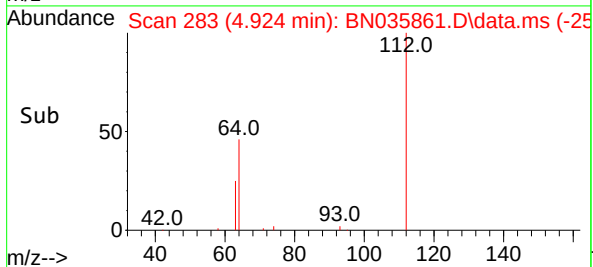
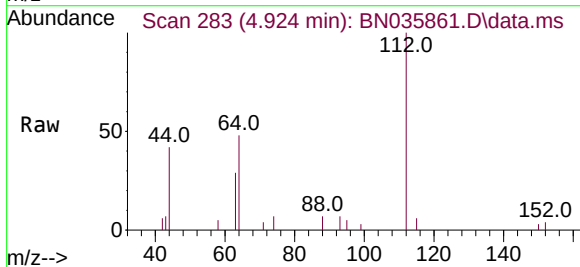
APPROVED

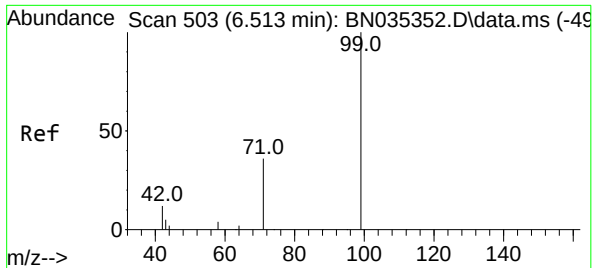
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

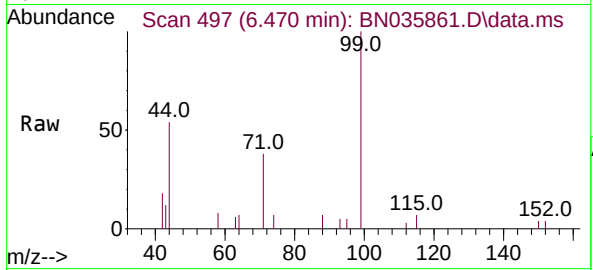
Tgt Ion:112 Resp: 2874
Ion Ratio Lower Upper
112 100
64 51.6 39.8 59.8
63 28.9 21.0 31.6





#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

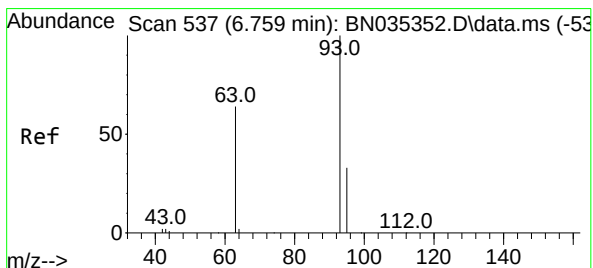
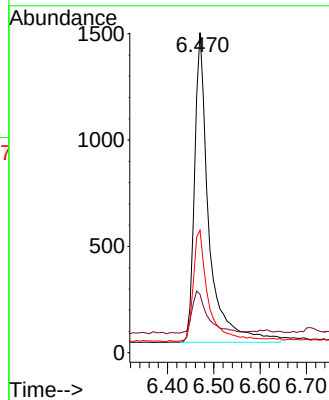
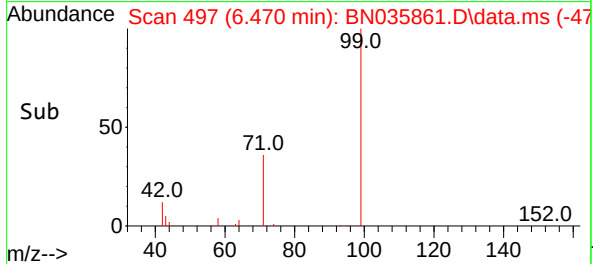
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 315
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.2
71 37.3 29.3 43.9

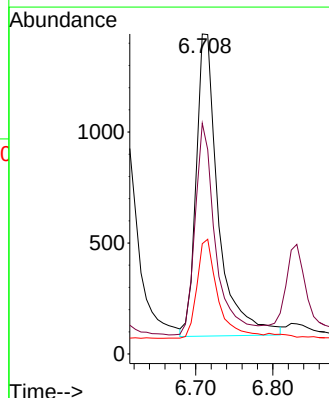
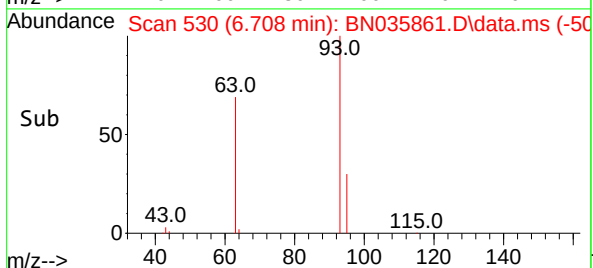
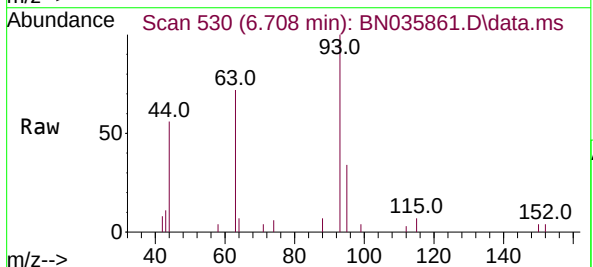
Manual Integrations
APPROVED

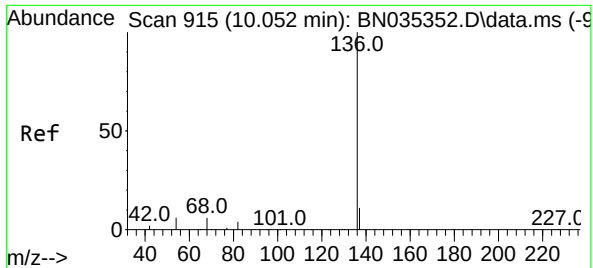
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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# 915
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

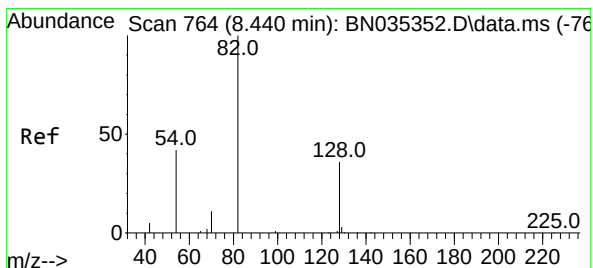
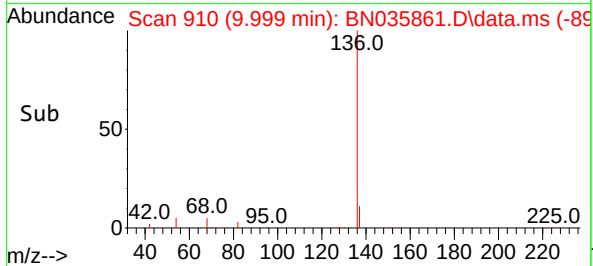
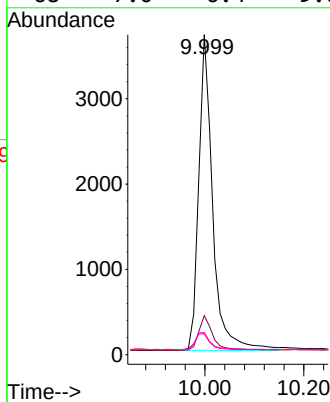
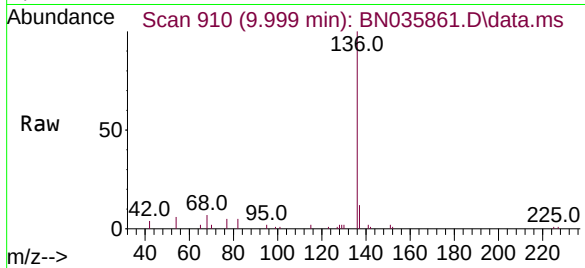
SSTDCCC0.4EC

Tgt 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

Manual Integrations

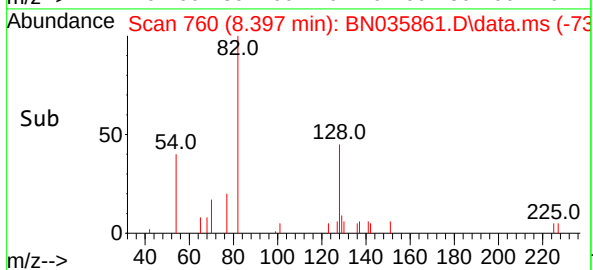
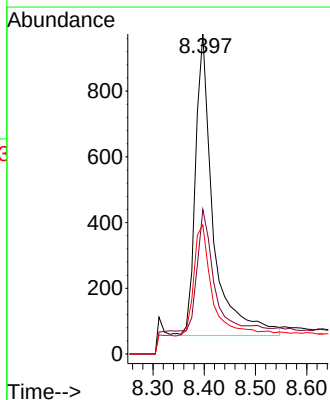
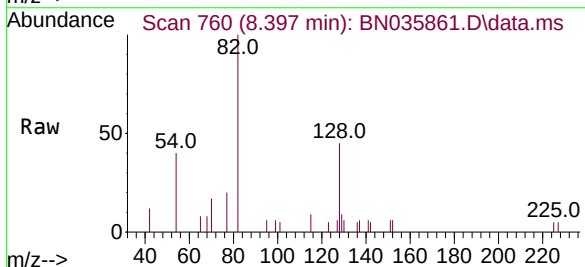
APPROVED

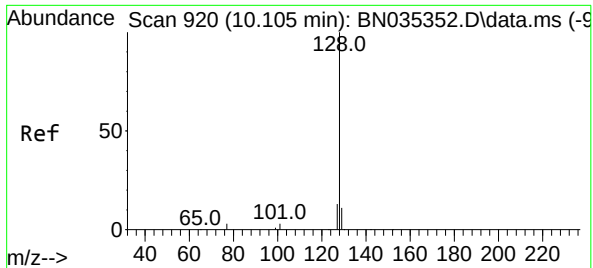
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1





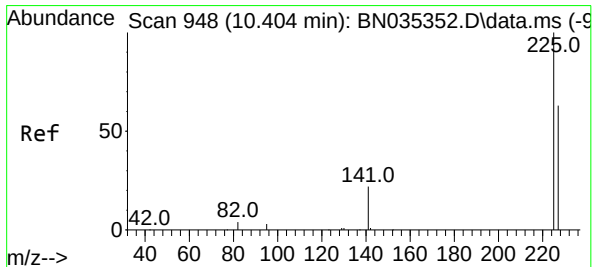
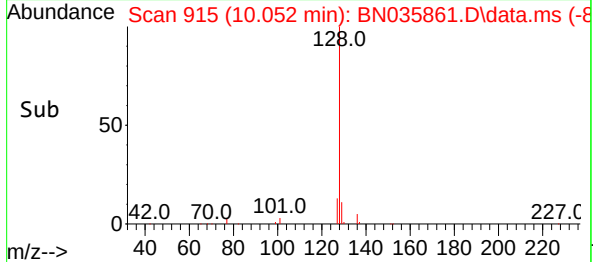
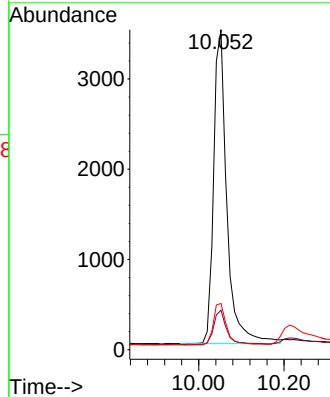
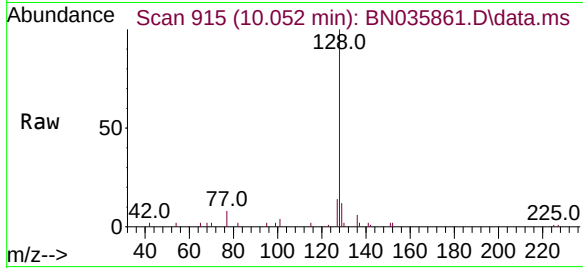
#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7510
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.5 11.4 17.2

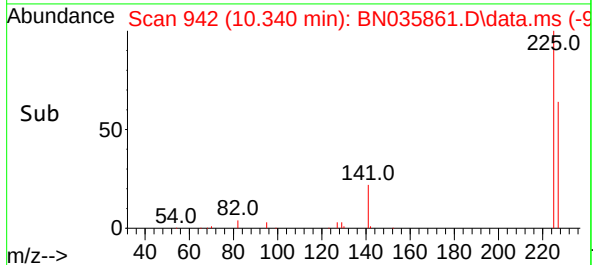
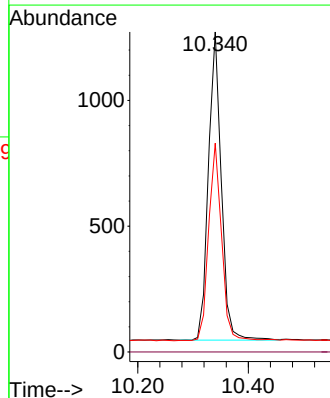
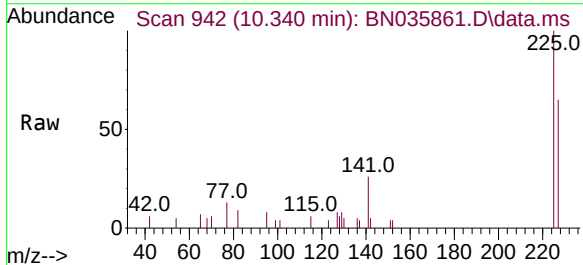
Manual Integrations
APPROVED

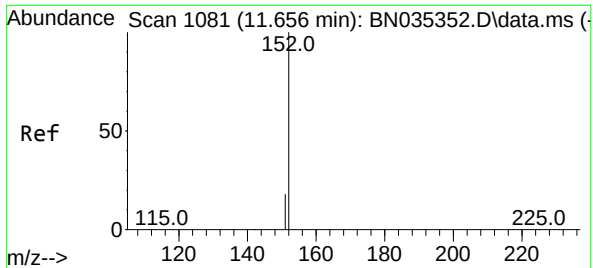
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

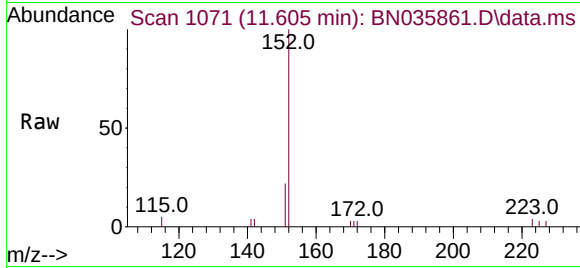
Tgt Ion:225 Resp: 1992
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

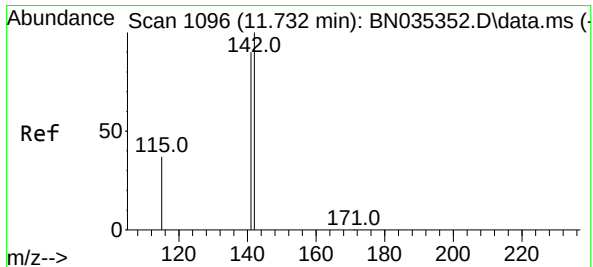
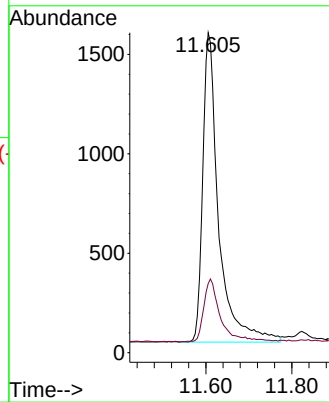
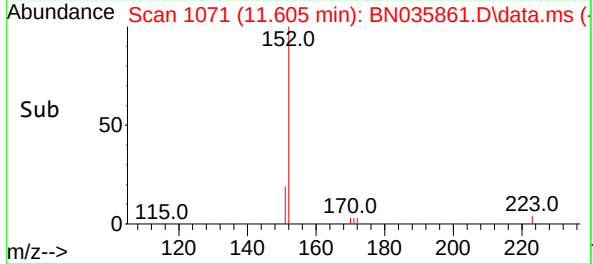
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 398
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0

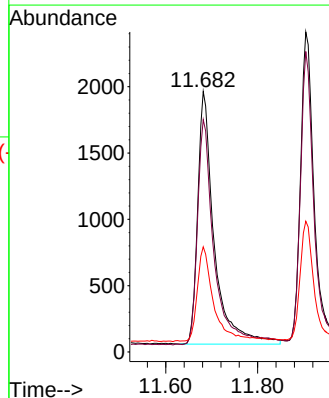
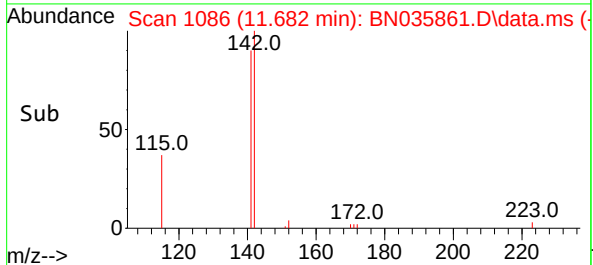
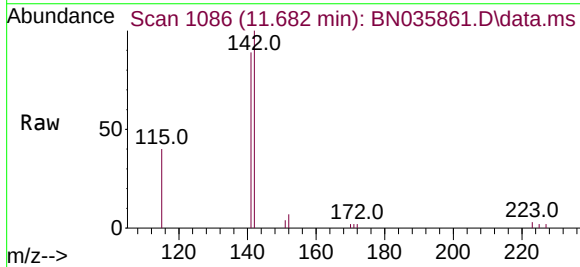
Manual Integrations
APPROVED

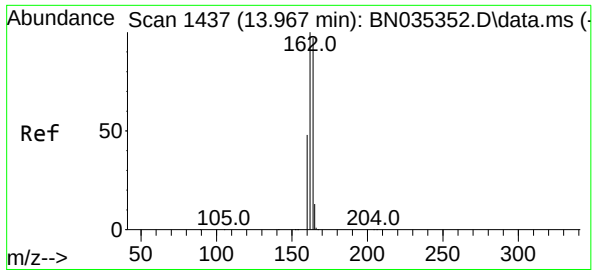
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

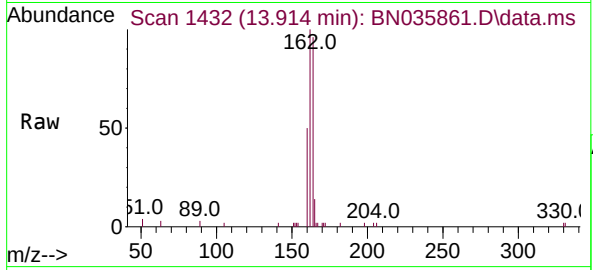
Tgt Ion:142 Resp: 4745
Ion Ratio Lower Upper
142 100
141 89.2 72.2 108.4
115 40.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

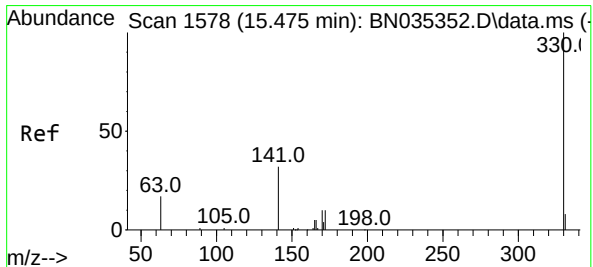
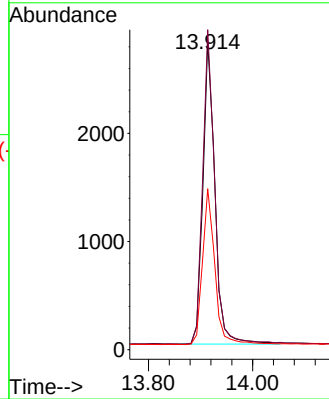
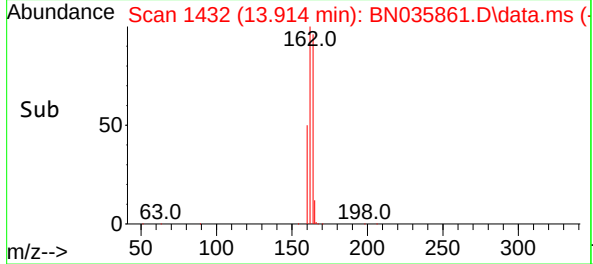
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

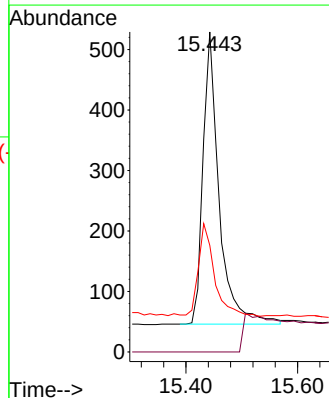
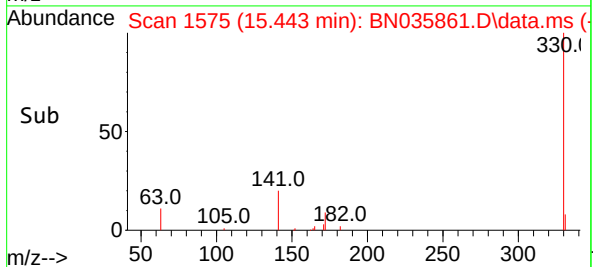
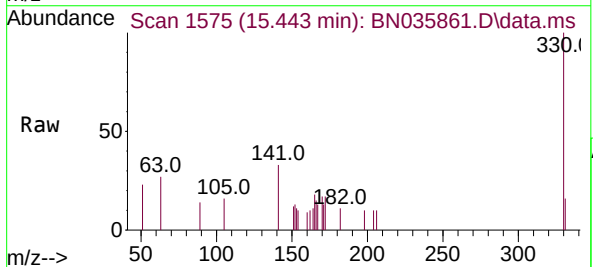
Manual Integrations
APPROVED

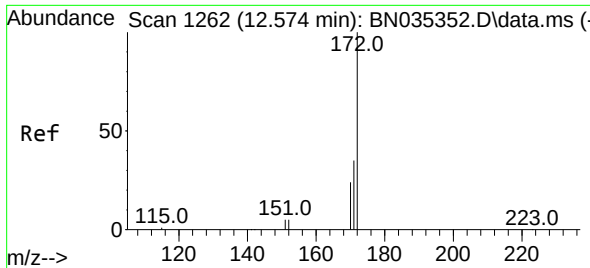
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

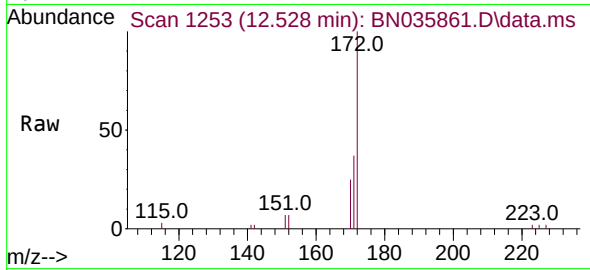
Tgt Ion:330 Resp: 1008
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.5 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

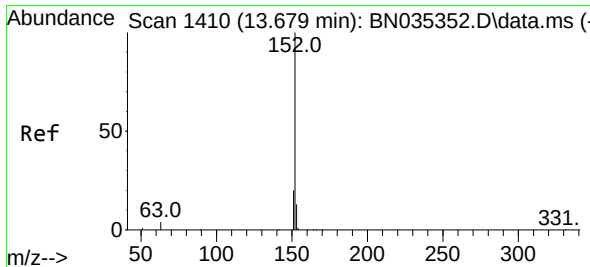
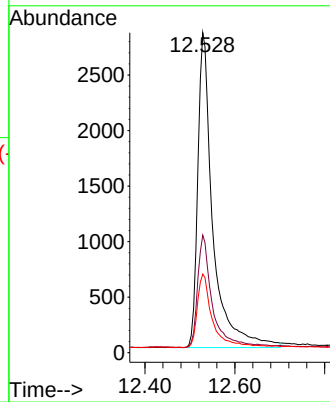
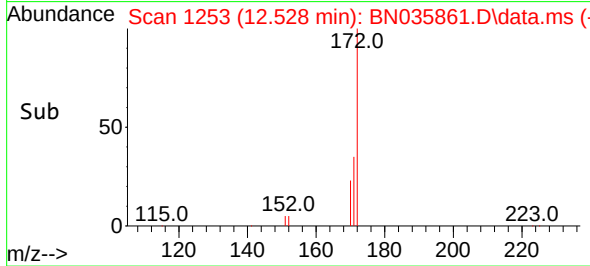
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

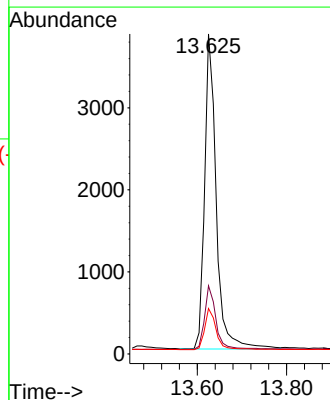
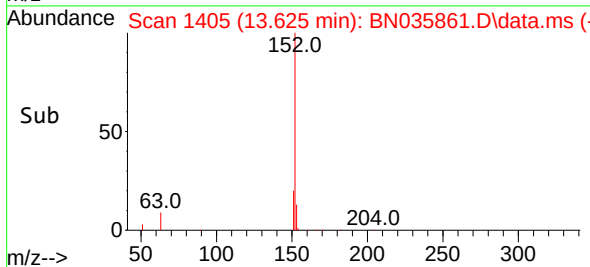
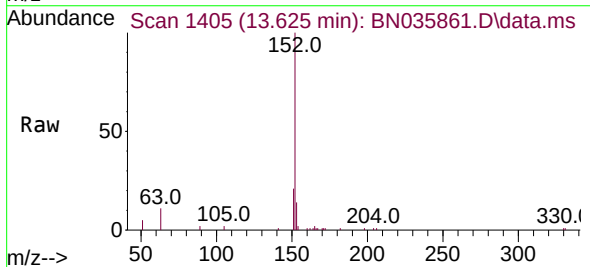
Manual Integrations
APPROVED

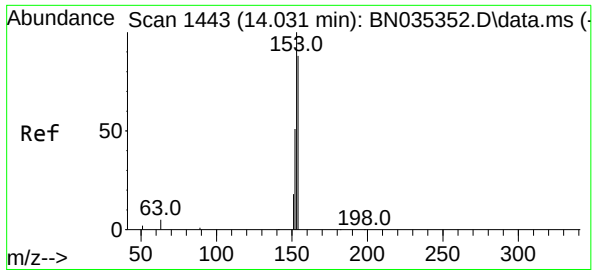
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

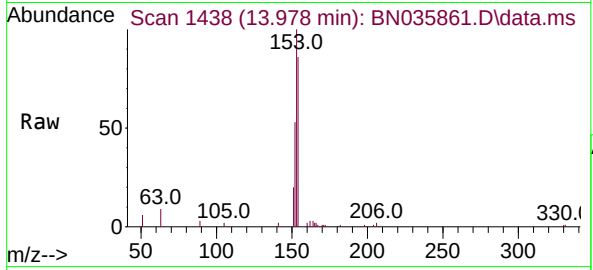
Tgt Ion:152 Resp: 6923
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

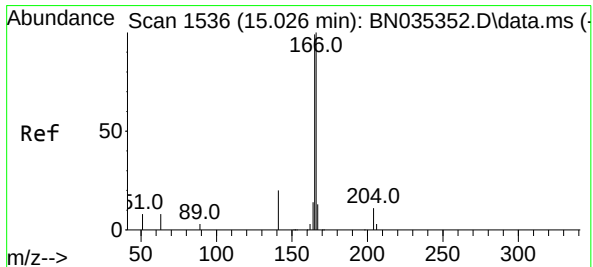
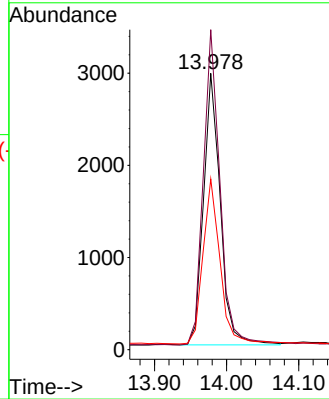
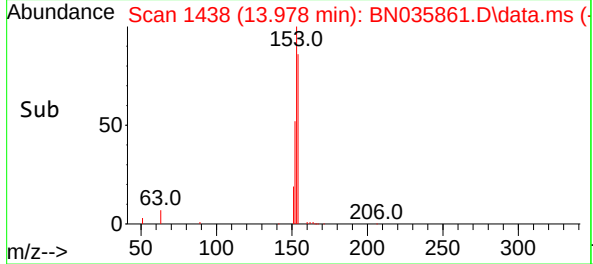
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 4770
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 62.6 49.0 73.6

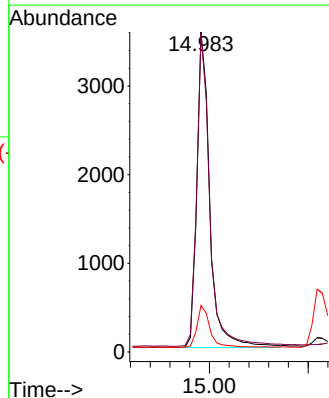
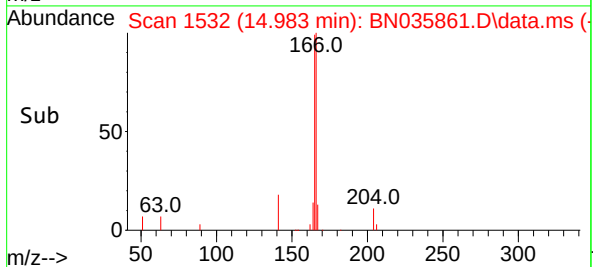
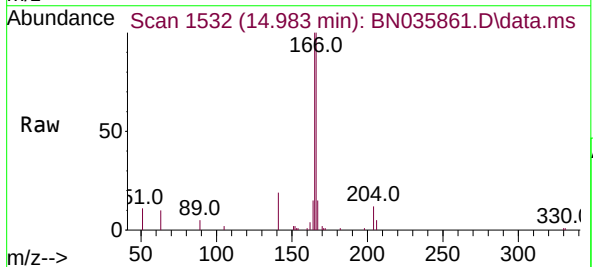
Manual Integrations
APPROVED

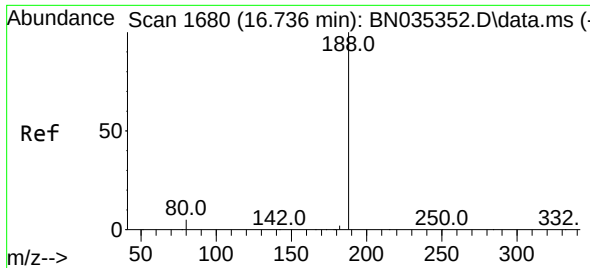
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

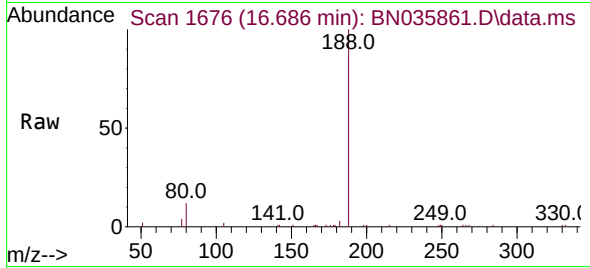
Tgt Ion:166 Resp: 6478
Ion Ratio Lower Upper
166 100
165 98.7 79.7 119.5
167 13.6 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

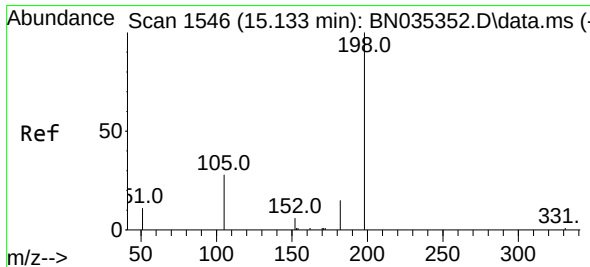
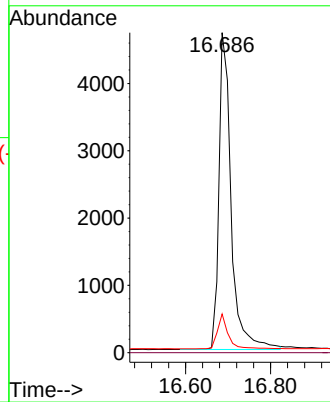
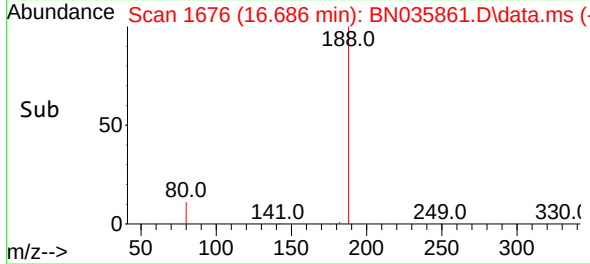
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:188 Resp: 937
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.1 4.6 6.8

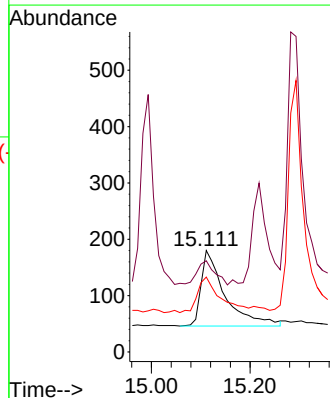
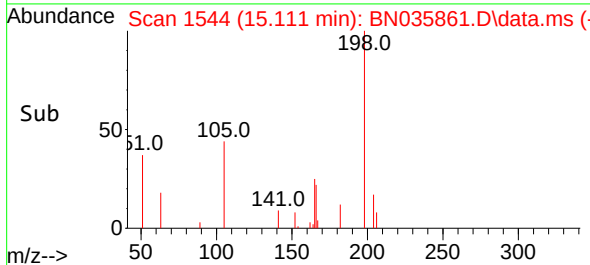
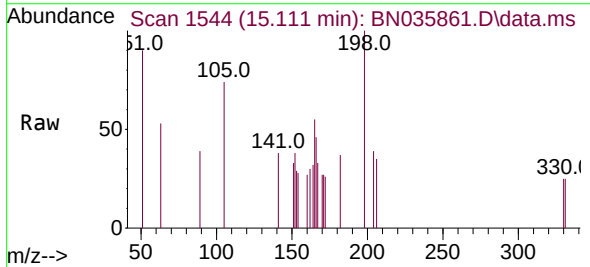
Manual Integrations
APPROVED

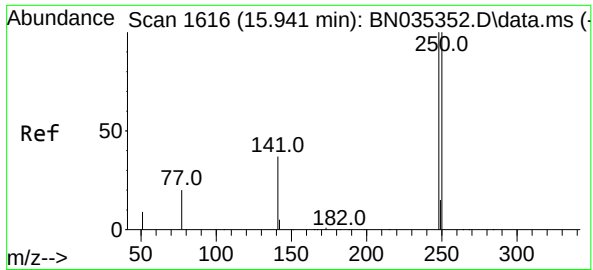
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

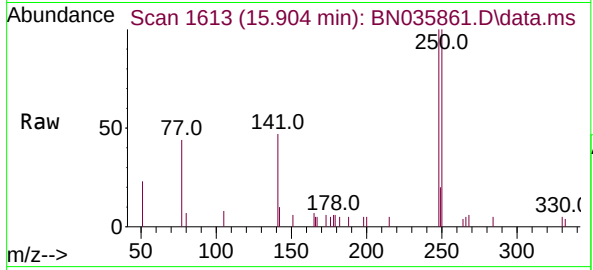
Tgt Ion:198 Resp: 453
Ion Ratio Lower Upper
198 100
51 90.0 46.5 69.7#
105 73.9 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

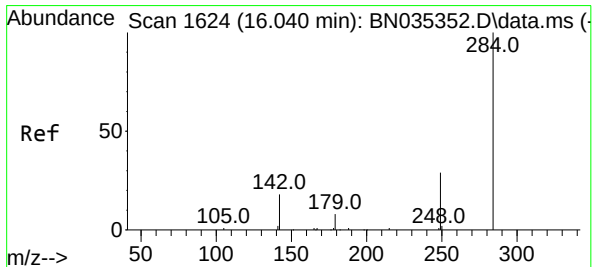
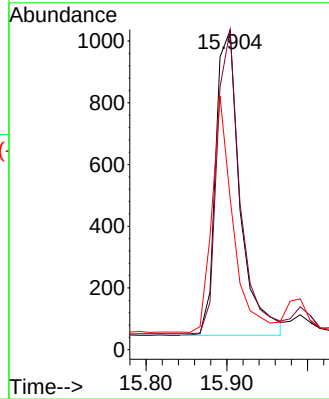
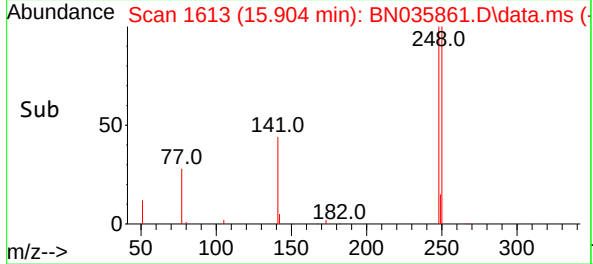
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 207
Ion Ratio Lower Upper
248 100
250 100.2 80.6 120.8
141 47.4 31.5 47.3

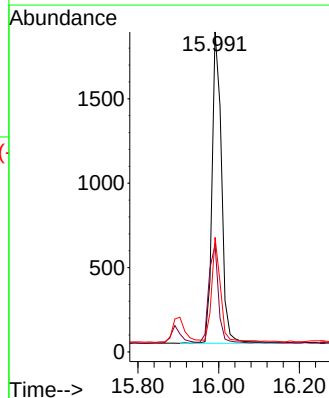
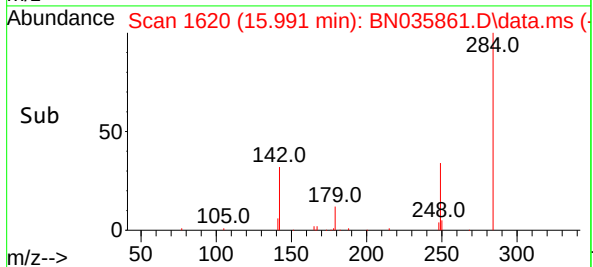
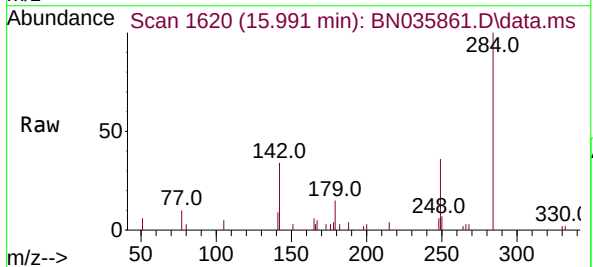
Manual Integrations
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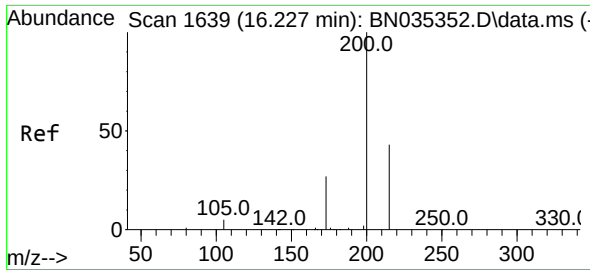
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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





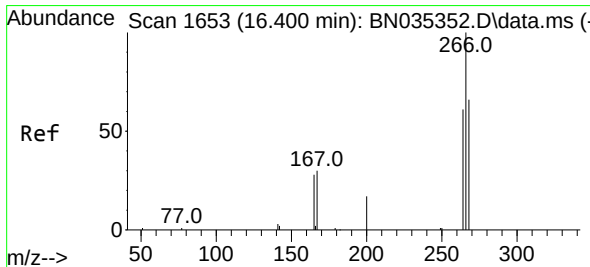
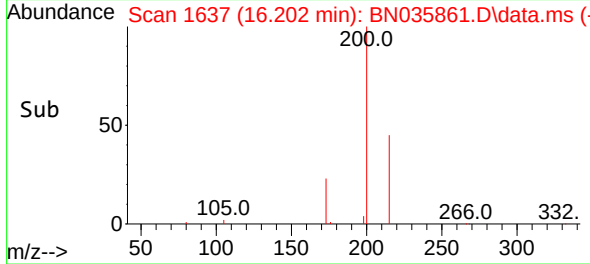
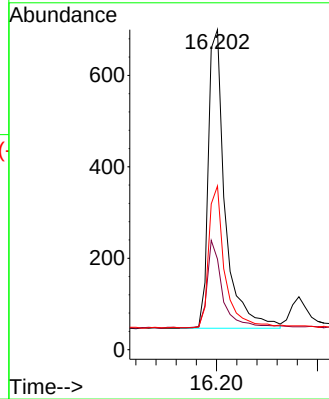
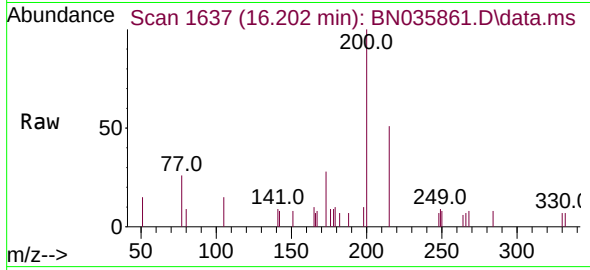
#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 150
Ion Ratio Lower Upper
200 100
173 28.3 24.1 36.1
215 51.1 36.9 55.3

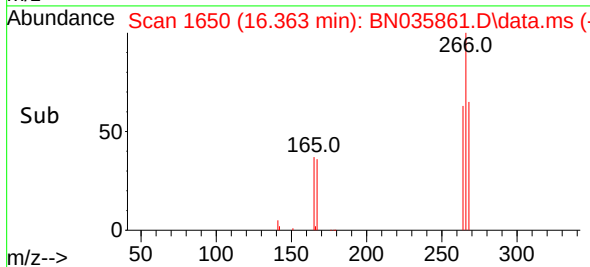
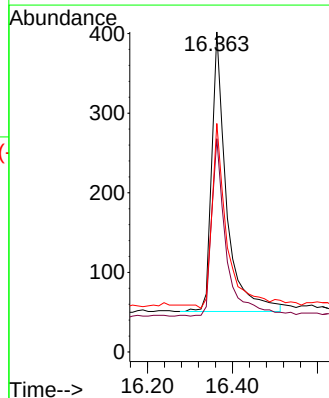
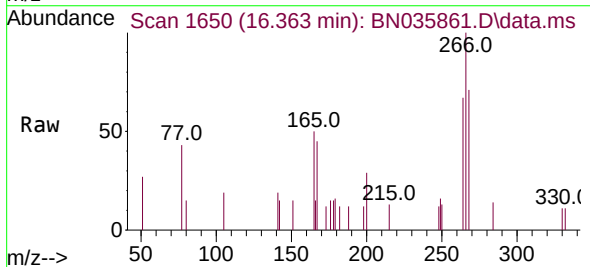
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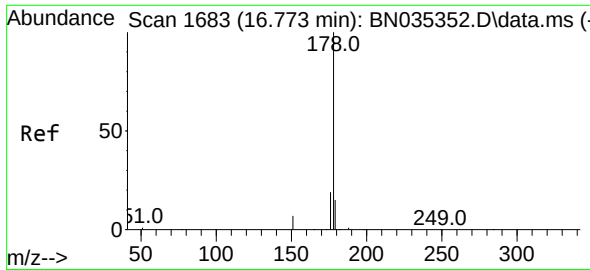
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

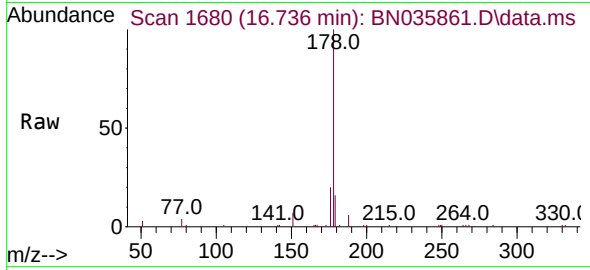
Tgt Ion:266 Resp: 846
Ion Ratio Lower Upper
266 100
264 62.3 42.3 63.5
268 67.7 43.3 64.9#





#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

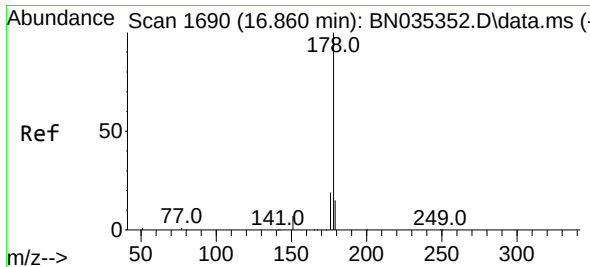
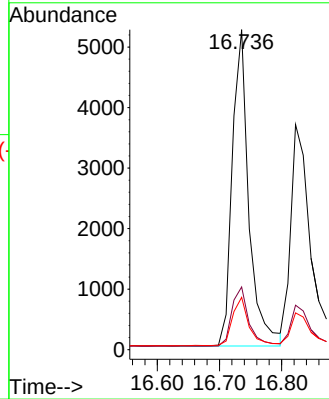
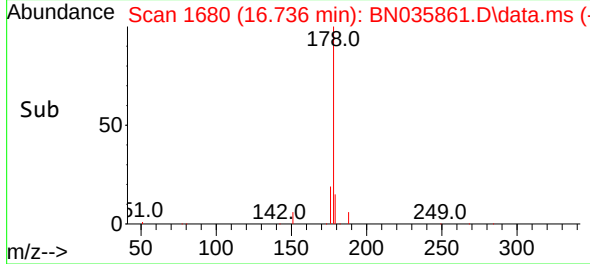
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 969
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.3 12.3 18.5

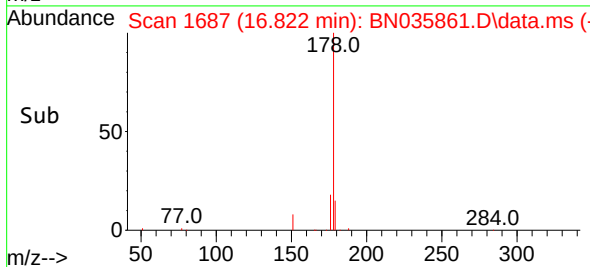
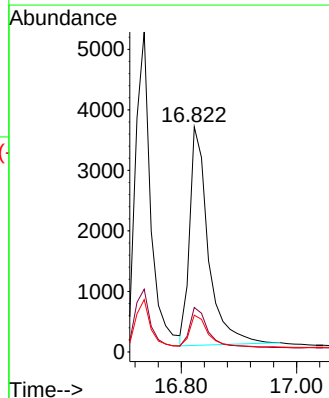
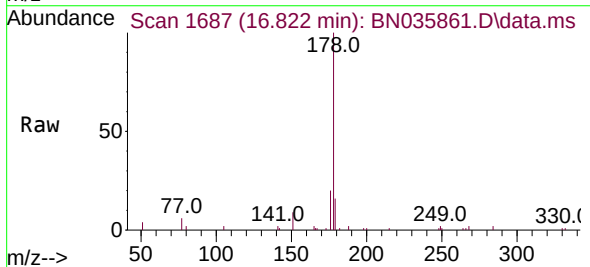
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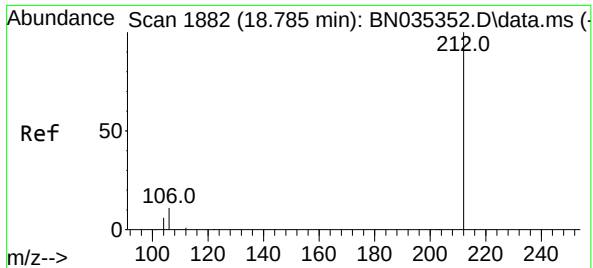
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

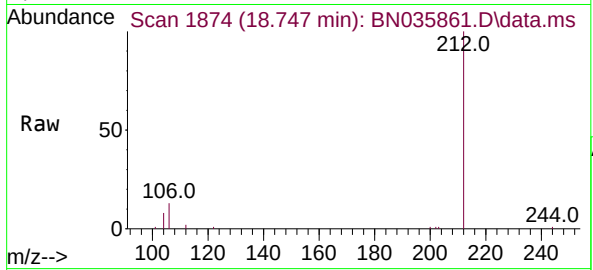
Tgt Ion:178 Resp: 8100
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

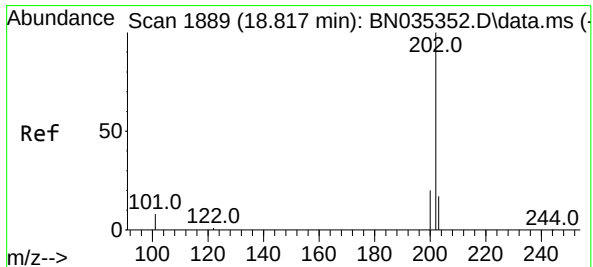
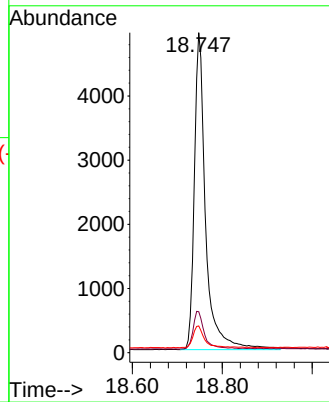
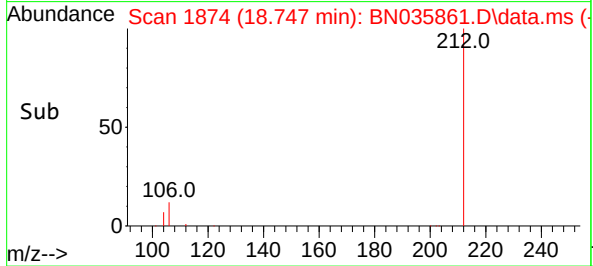
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 864
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 7.0 5.3 7.9

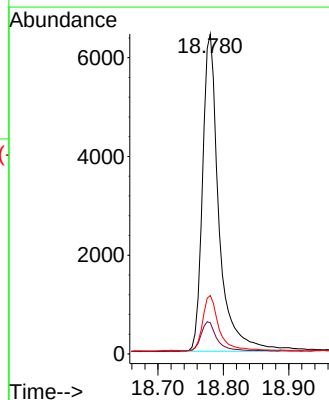
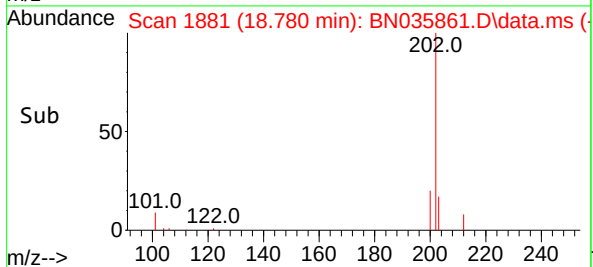
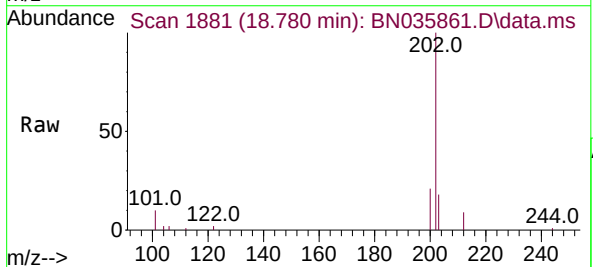
Manual Integrations
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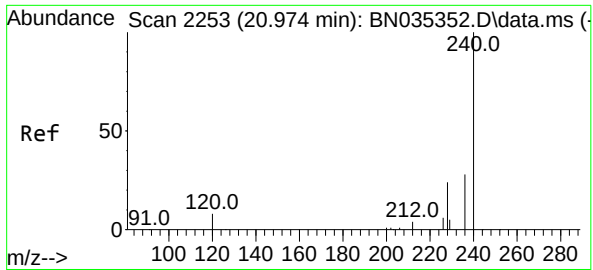
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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# 21

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

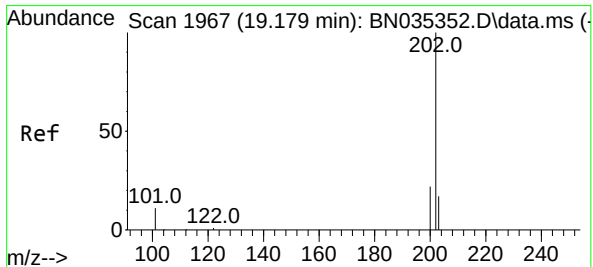
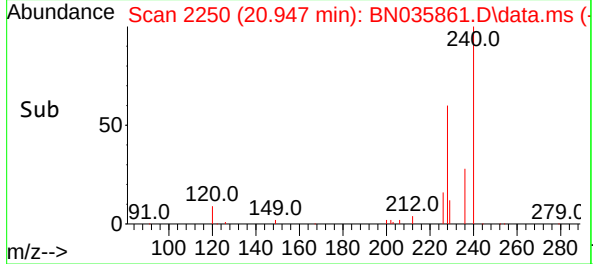
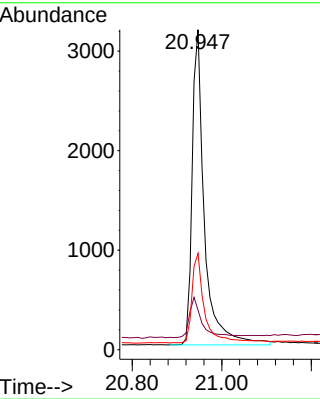
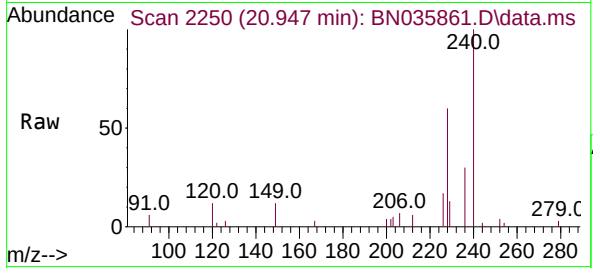
236 30.1 22.9 34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#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

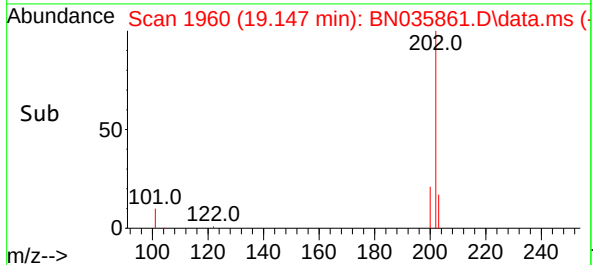
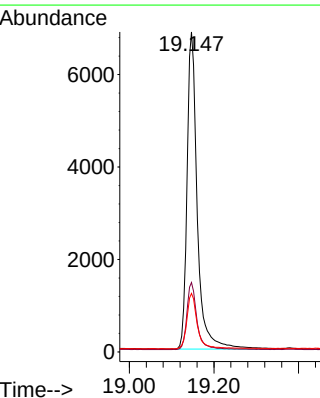
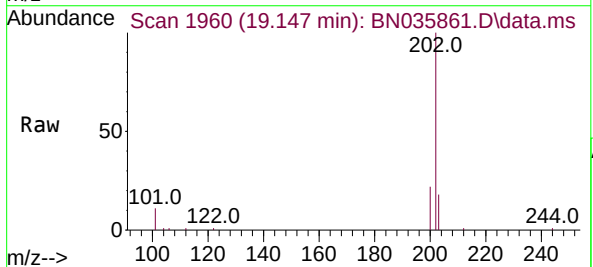
Tgt Ion:202 Resp: 11492

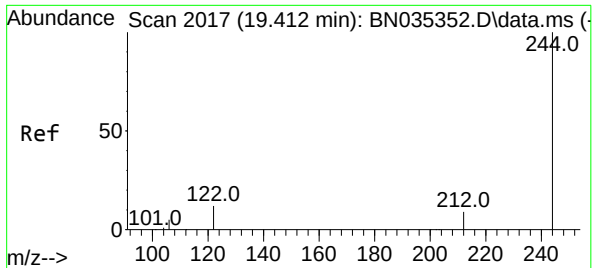
Ion Ratio Lower Upper

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# 2017
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

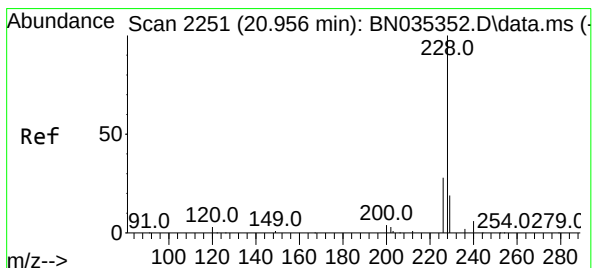
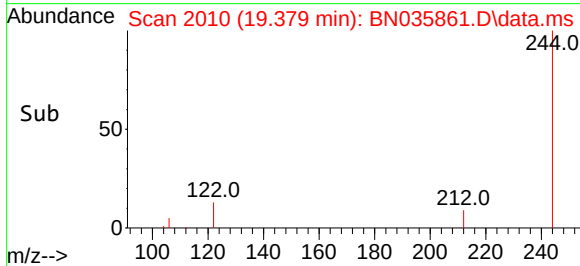
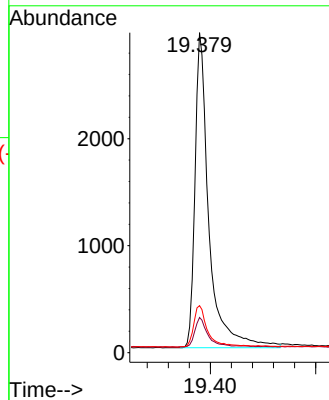
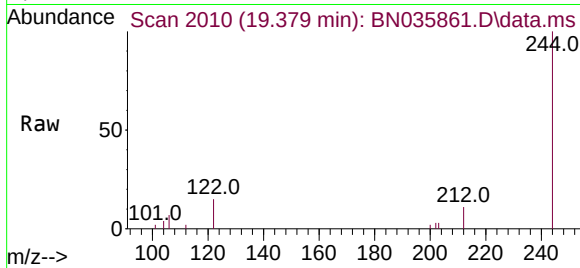
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

Manual Integrations

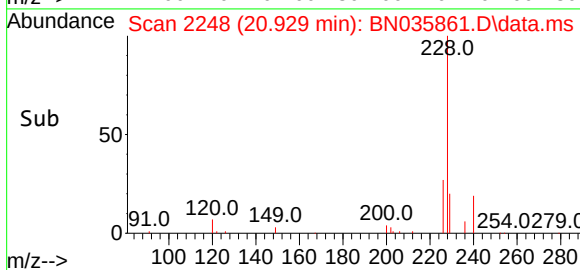
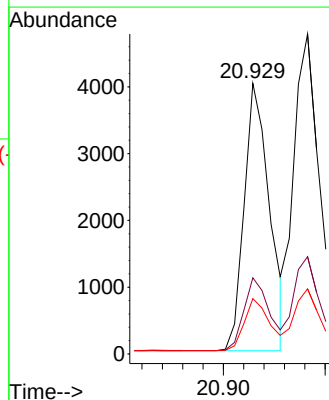
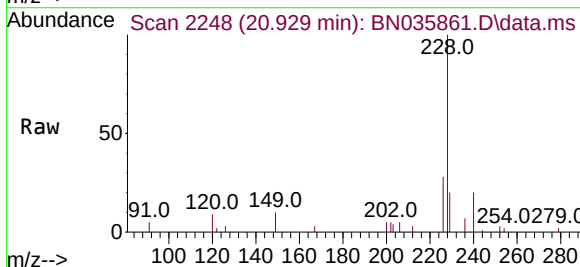
APPROVED

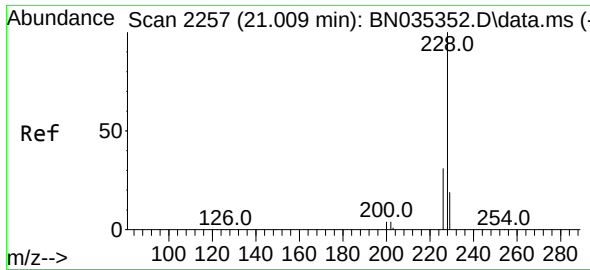
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

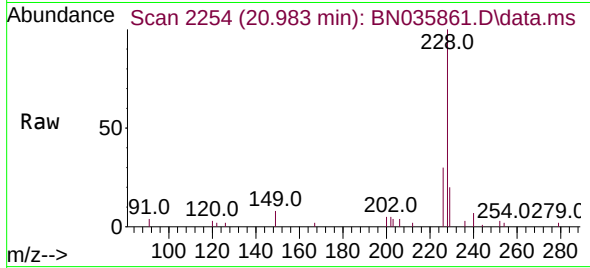
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8





#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

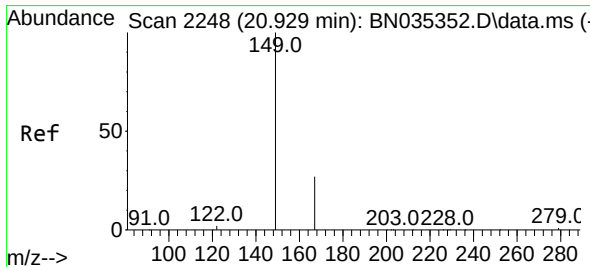
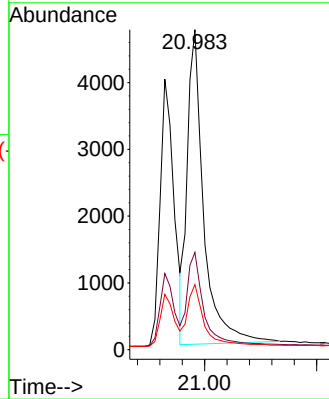
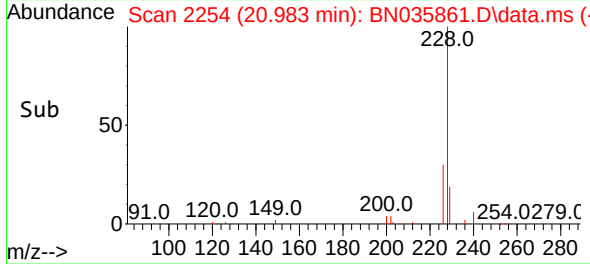
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

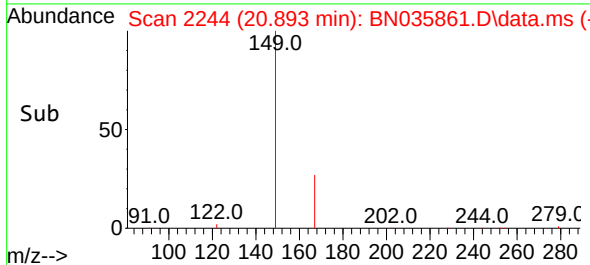
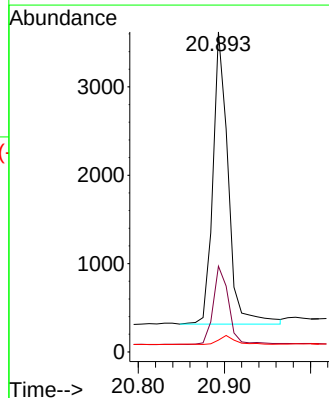
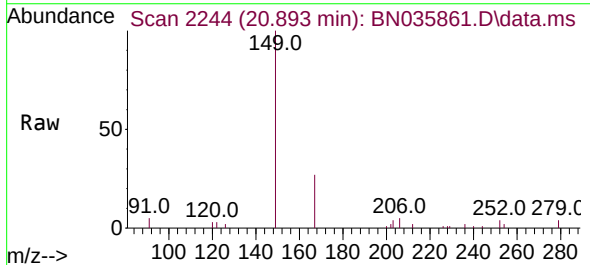
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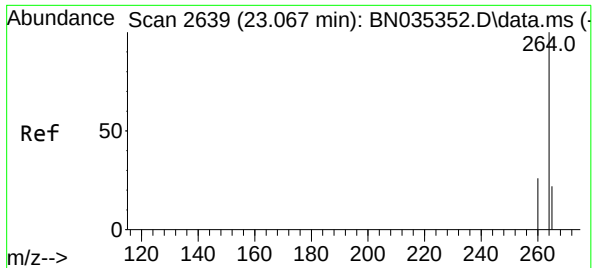
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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

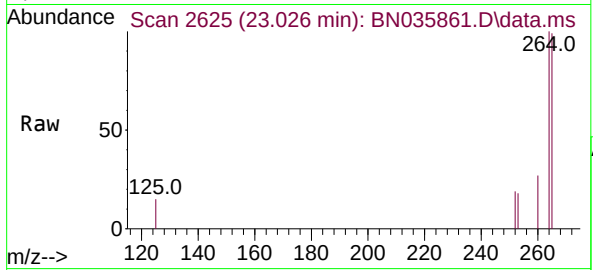
Tgt Ion:149 Resp: 4069
Ion Ratio Lower Upper
149 100
167 27.2 22.2 33.4
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

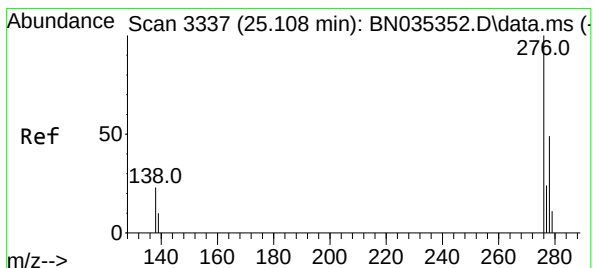
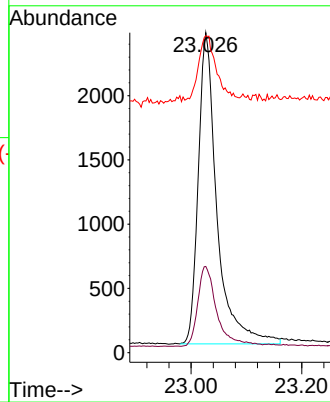
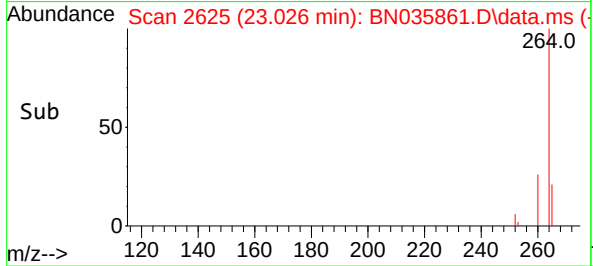
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

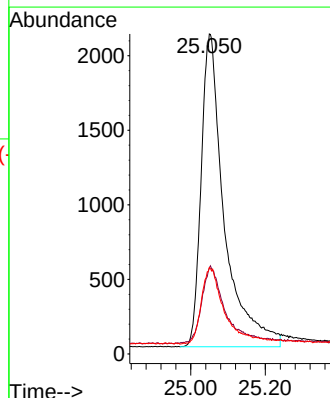
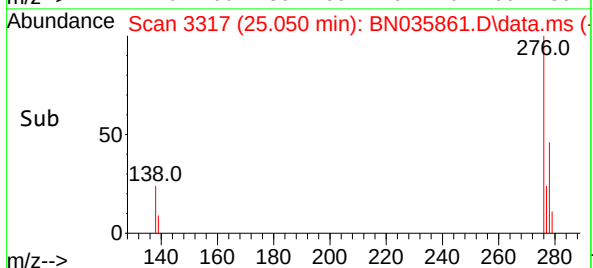
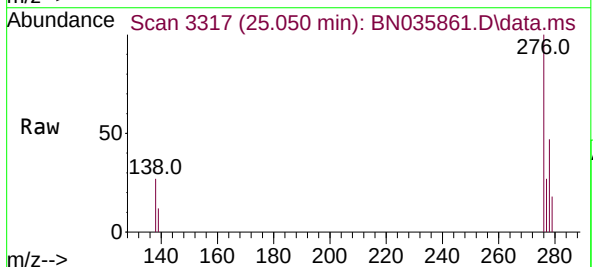
Manual Integrations
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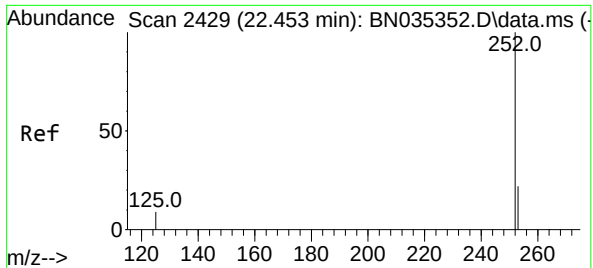
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#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# 2417

Delta R.T. -0.012 min

Lab File: BN035861.D

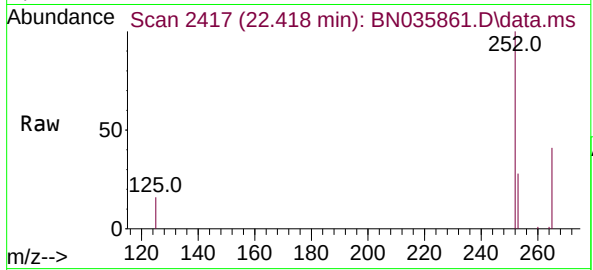
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:252 Resp: 1180

Ion Ratio Lower Upper

252 100

253 28.3 19.6 29.4

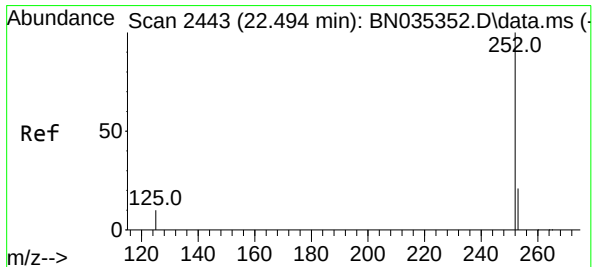
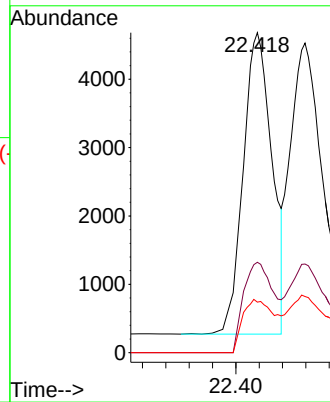
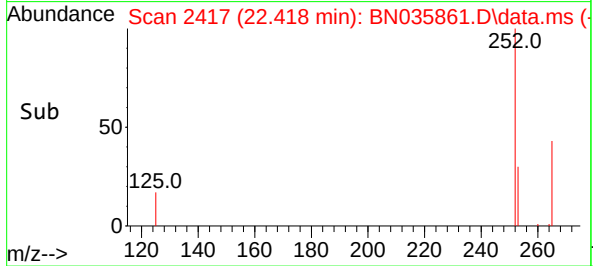
125 15.8 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#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

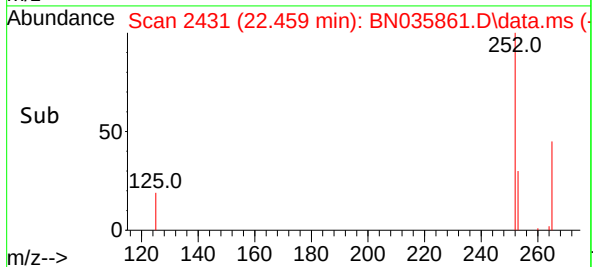
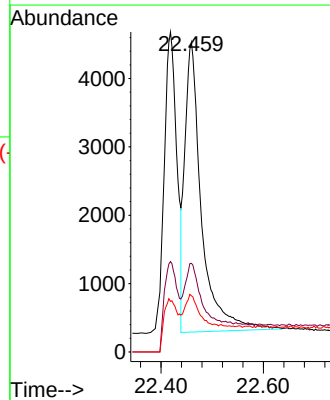
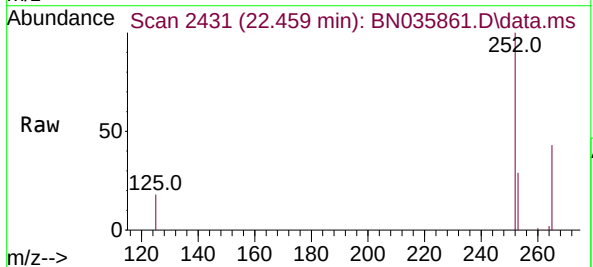
Tgt Ion:252 Resp: 9638

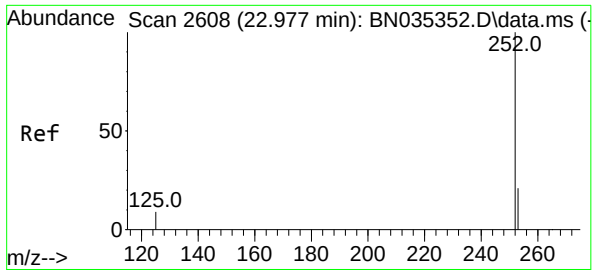
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

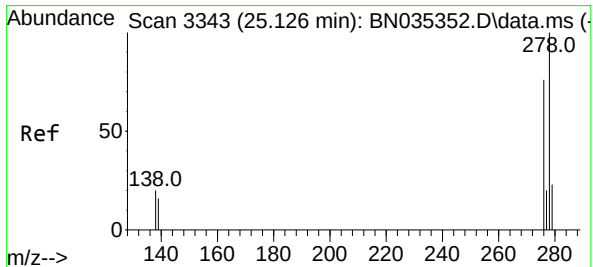
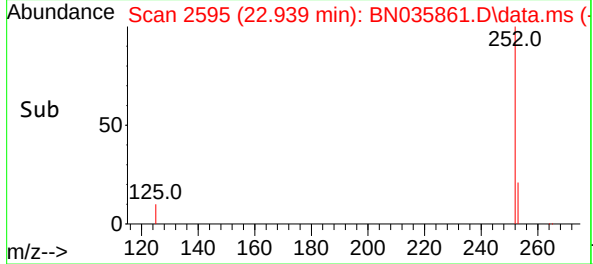
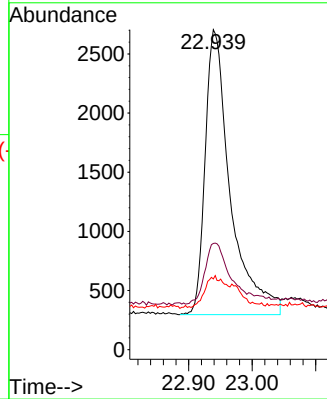
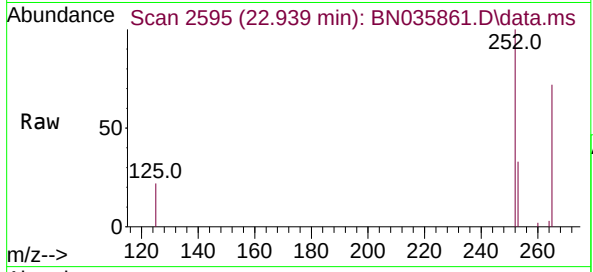
Tgt Ion:252	Resp:	664
Ion Ratio	Lower	Upper
252	100	
253	33.2	20.2 30.4
125	22.1	10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

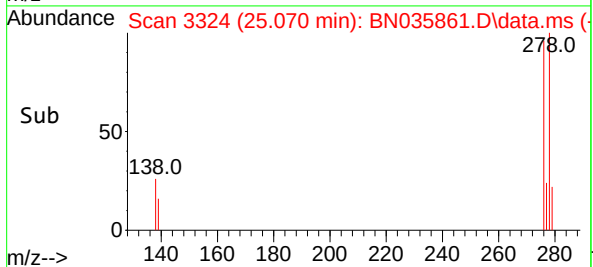
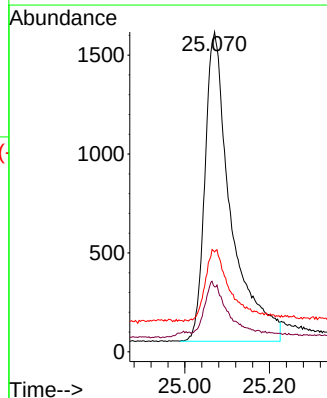
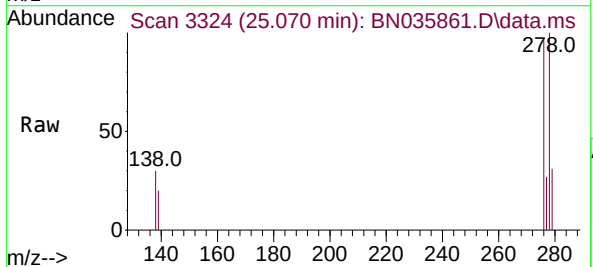
RT: 25.070 min Scan# 3324

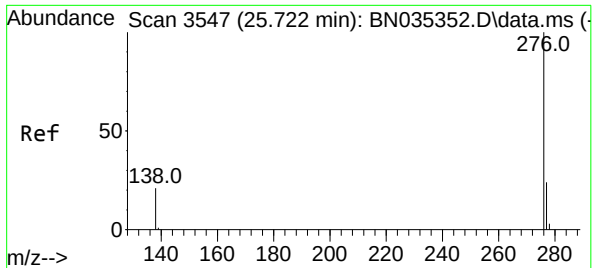
Delta R.T. -0.012 min

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# 31

Delta R.T. -0.026 min

Lab File: BN035861.D

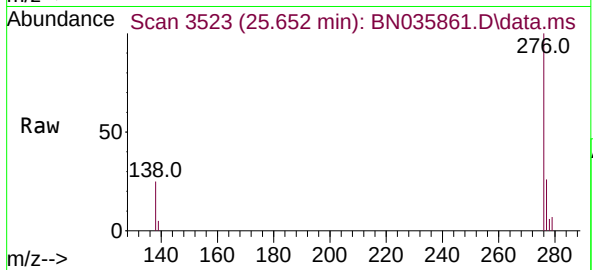
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 8300

Ion Ratio Lower Upper

276 100

277 26.3 19.9 29.9

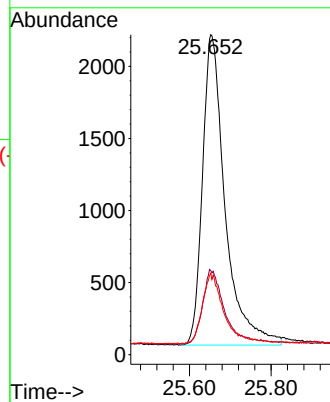
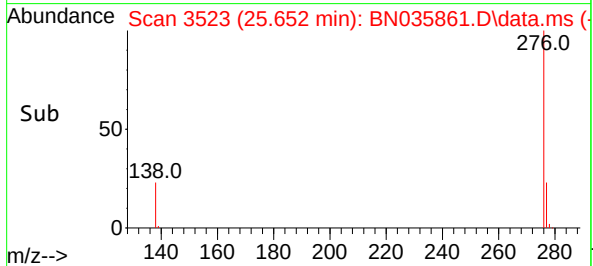
138 25.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



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

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



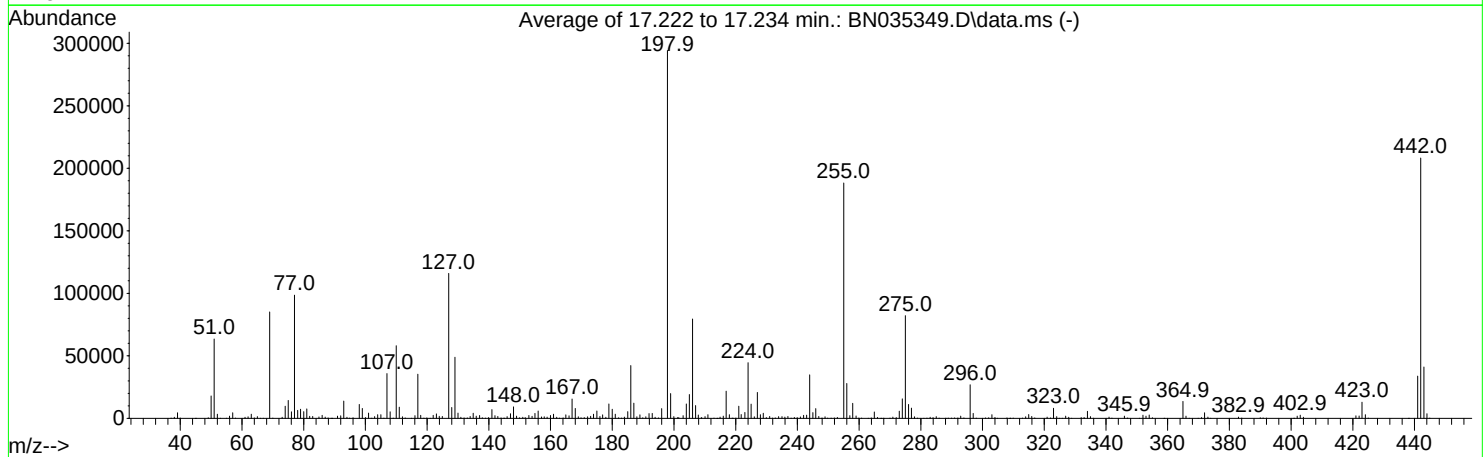
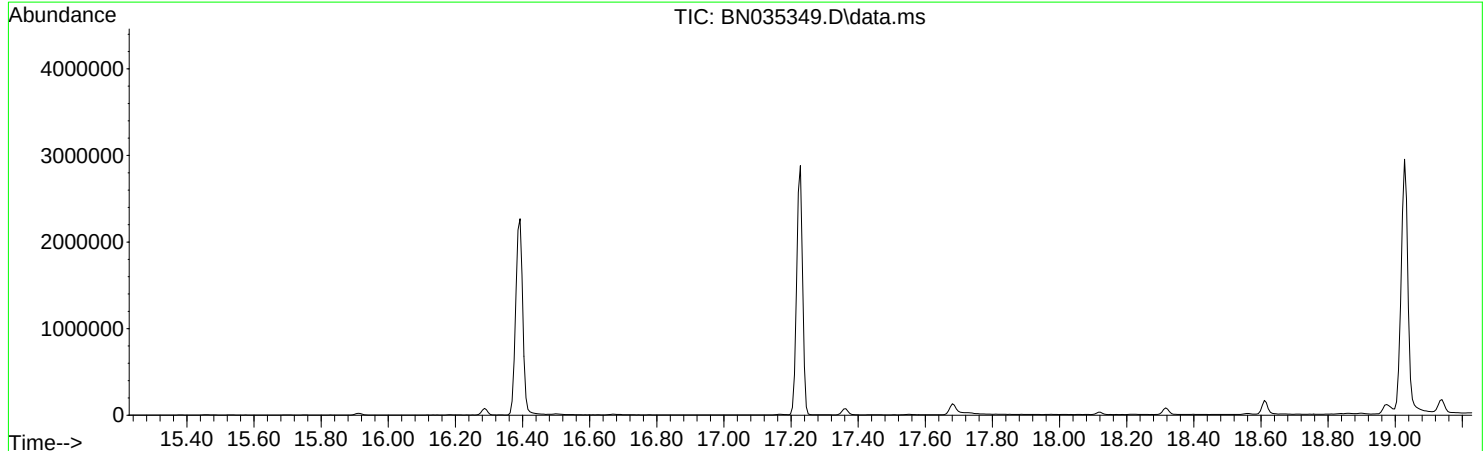
QC SAMPLE DATA

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



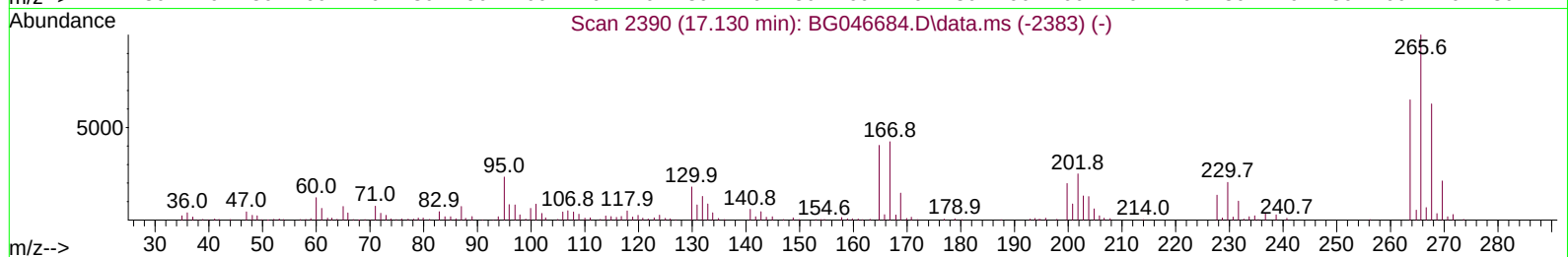
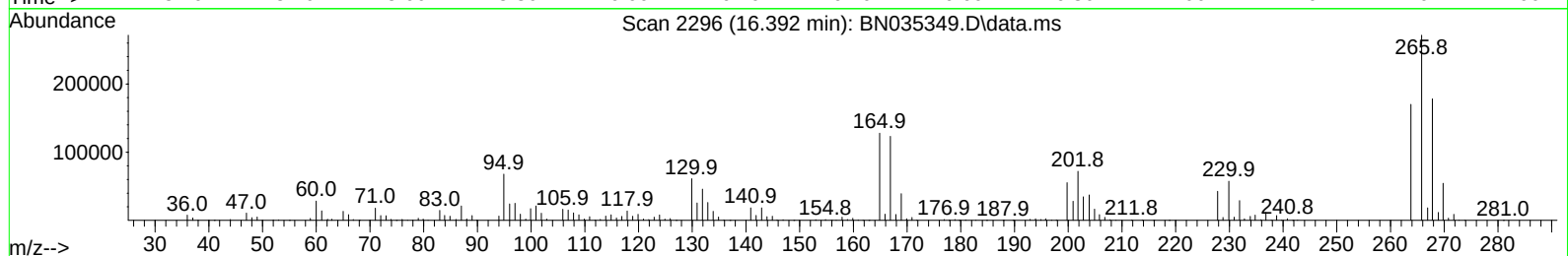
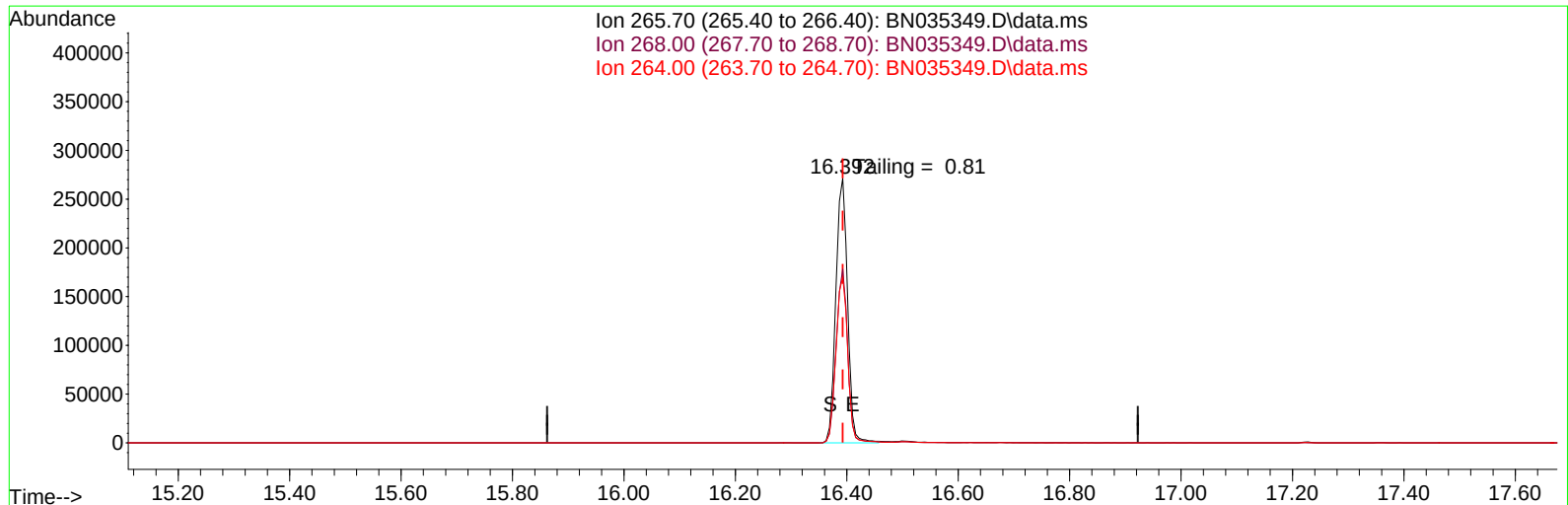
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

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

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

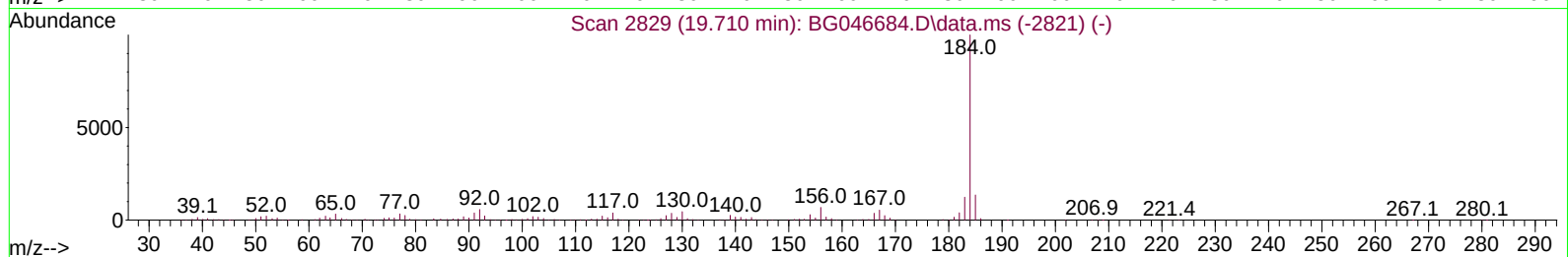
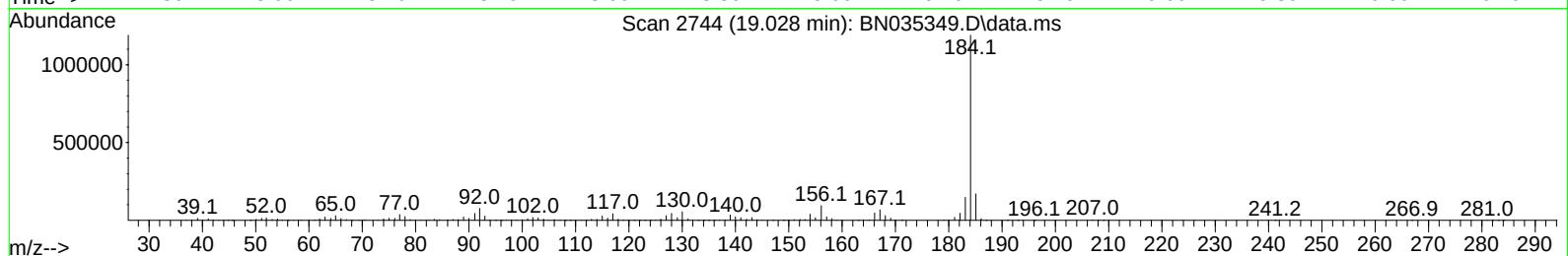
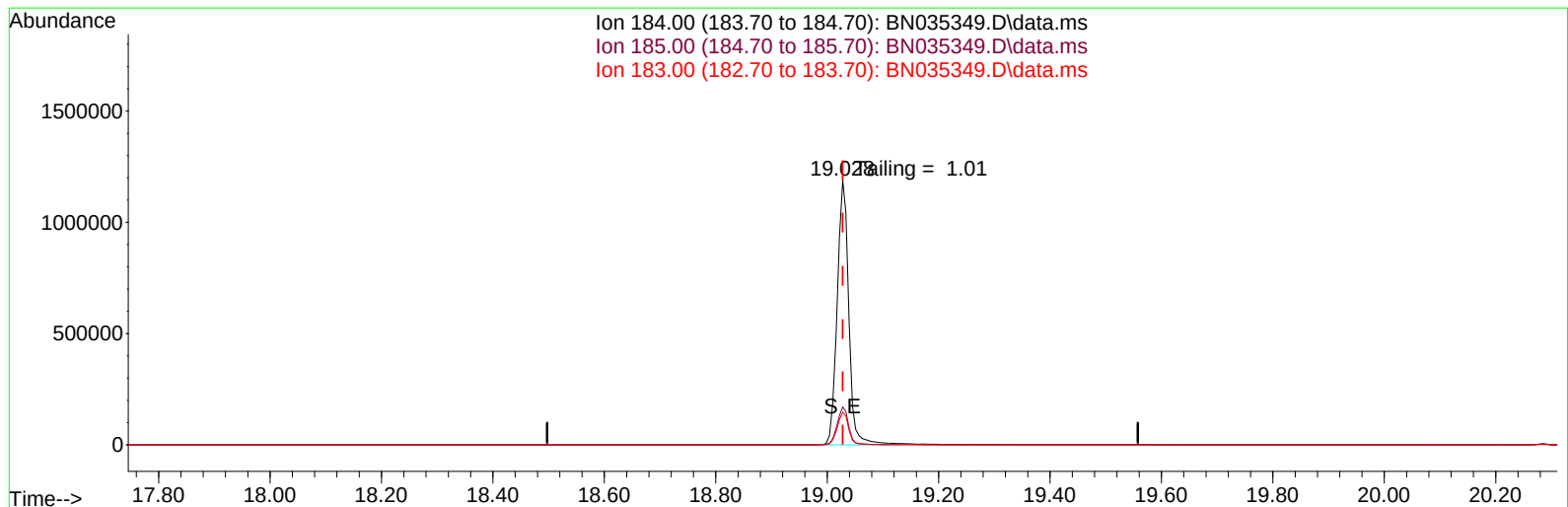
response 398074

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

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

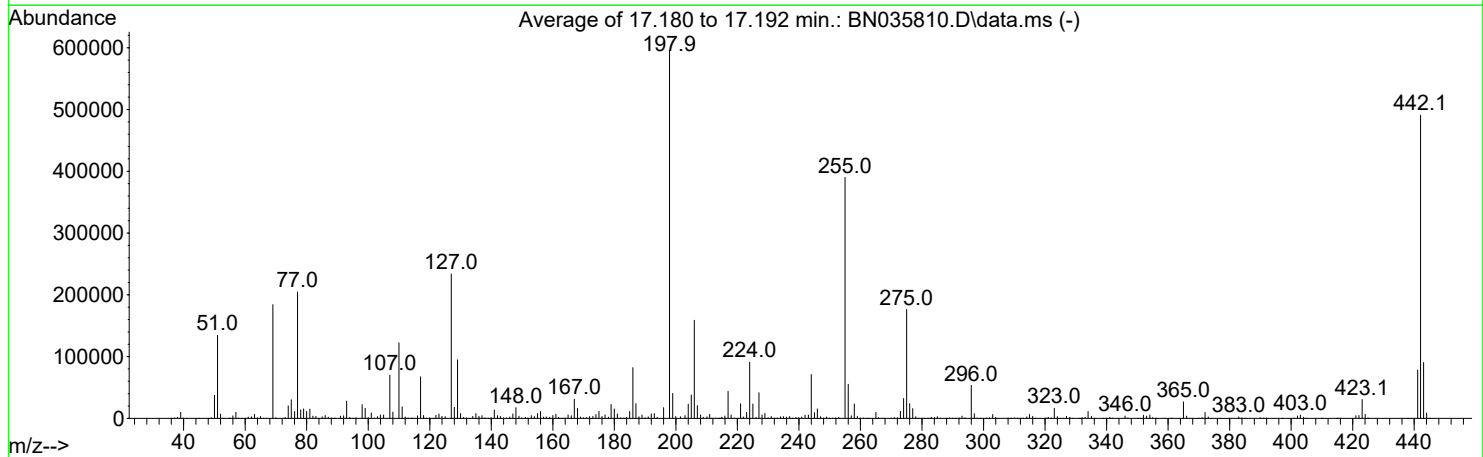
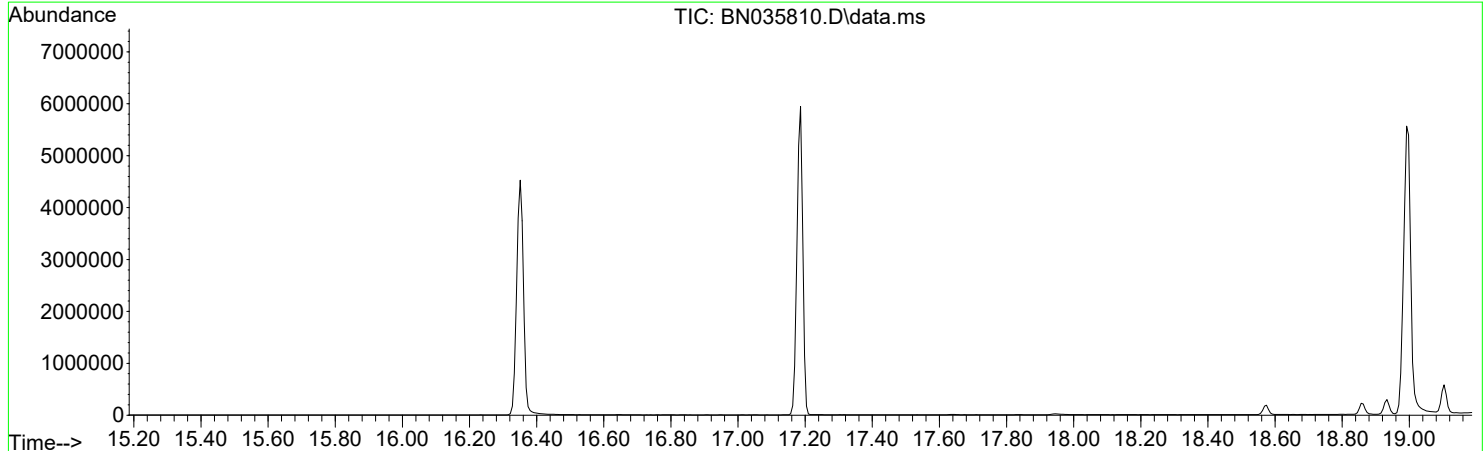
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	<u>BN035349.D</u>
Compound Name	Response	Retention Time
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28214	1013671	2.78

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



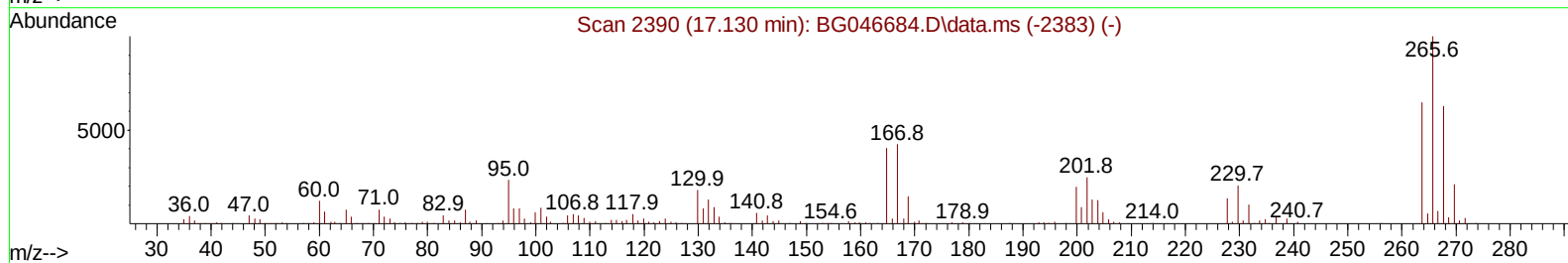
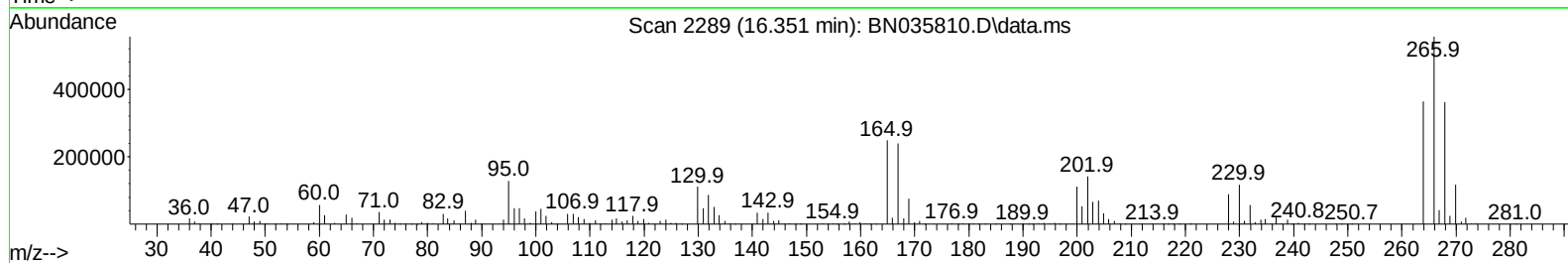
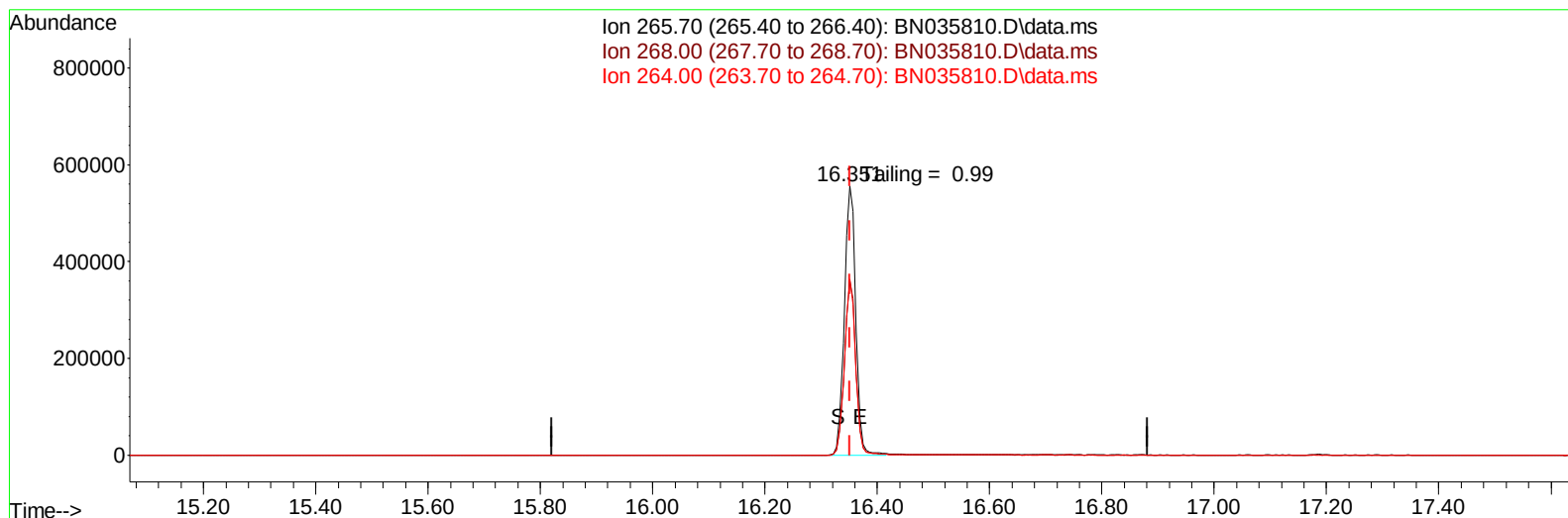
AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTTP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTTP

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

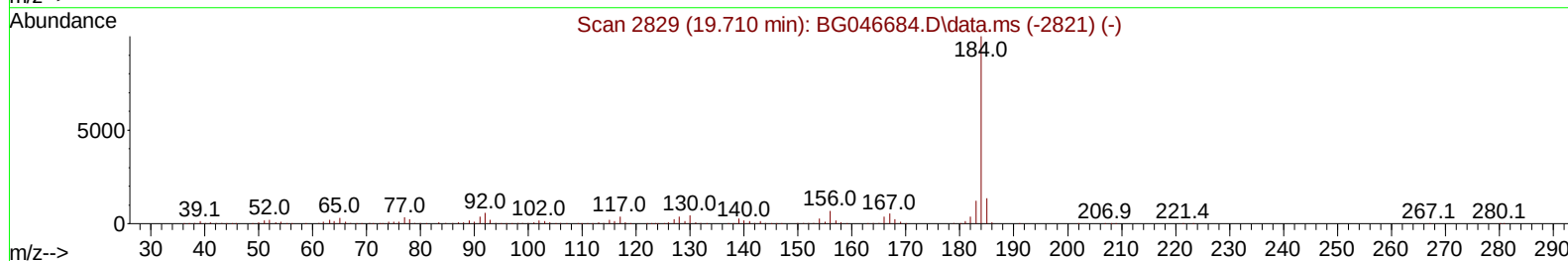
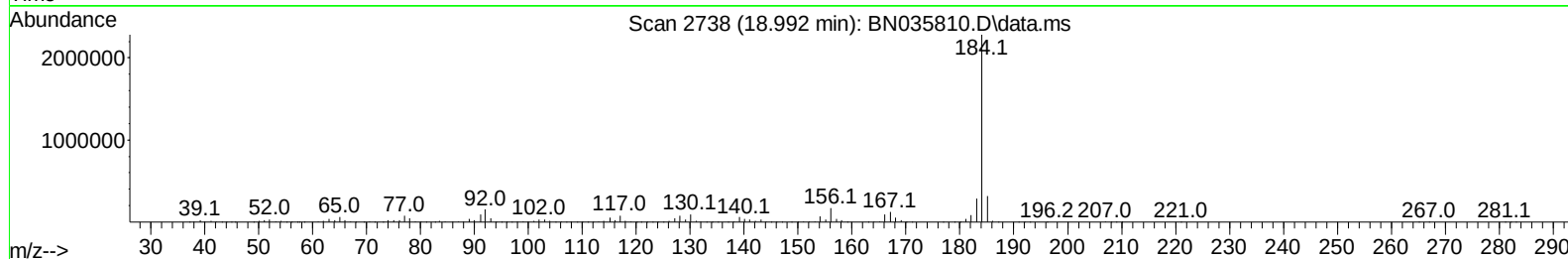
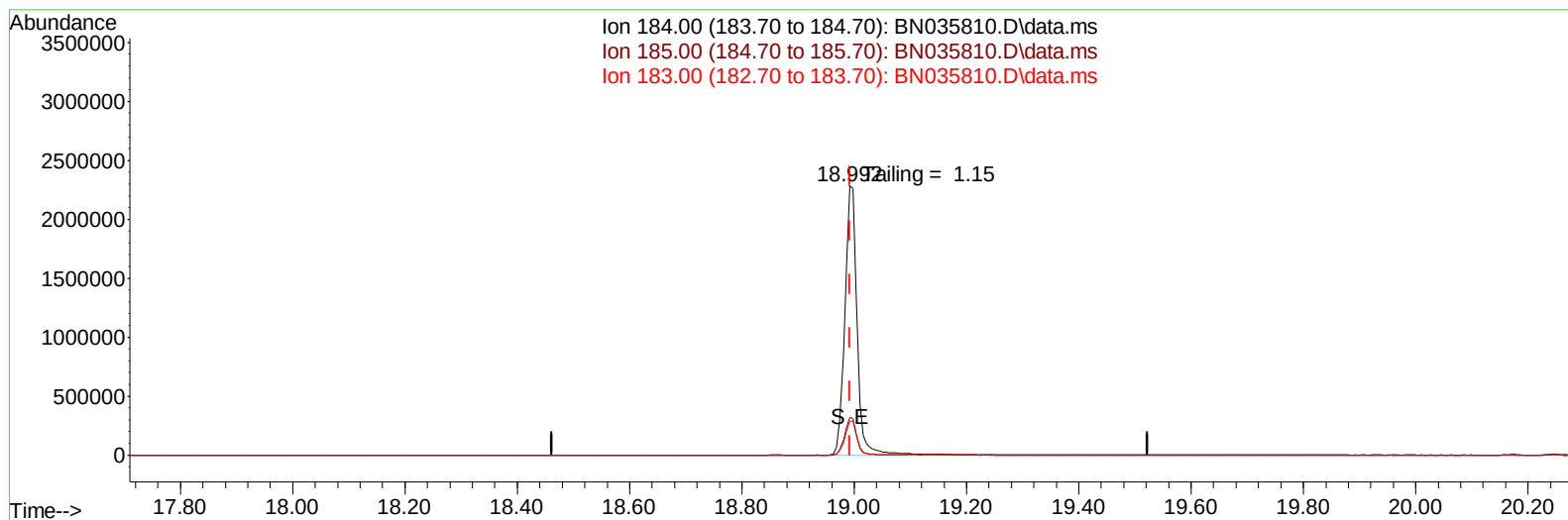
response 791954

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

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

DDT Breakdown

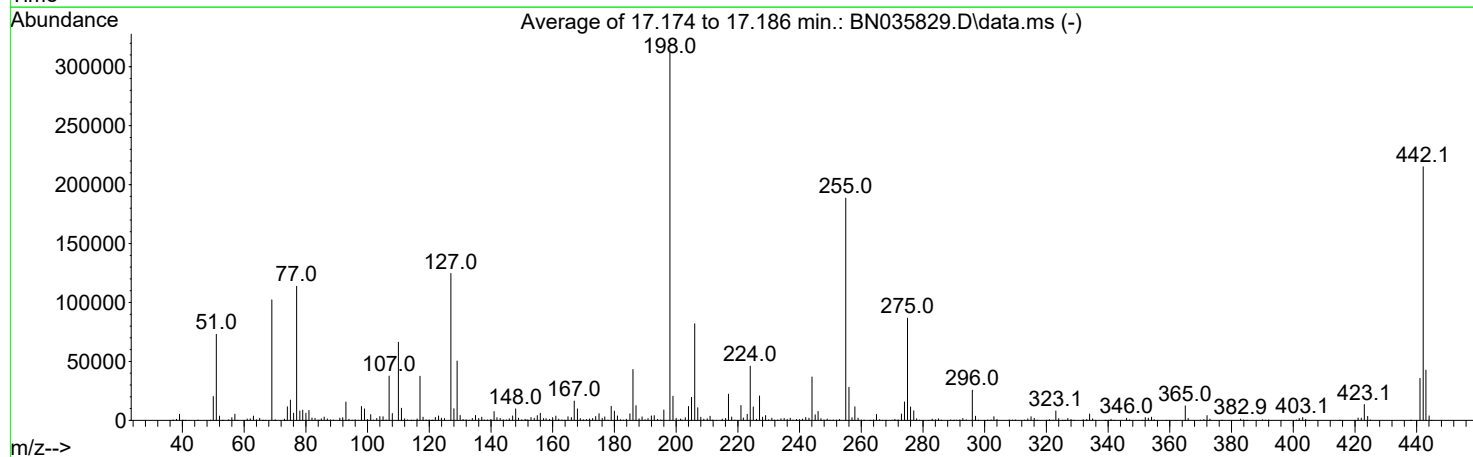
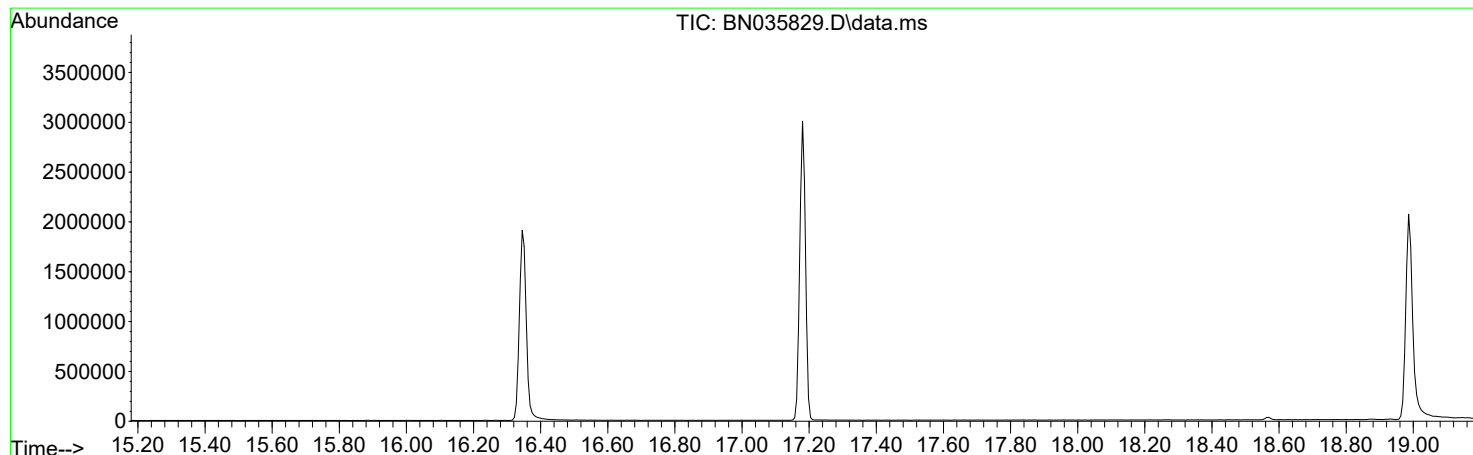
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	<u>BN035810.D</u>
Compound Name	Response	Retention Time
DDT	1784590	20.251
DDD	187693	19.804
DDE	5273	19.286
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
192966	1977556	9.76

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
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



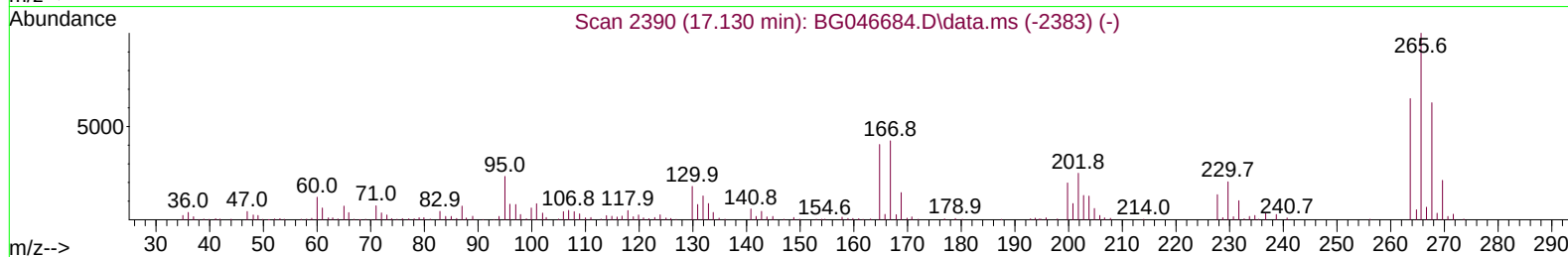
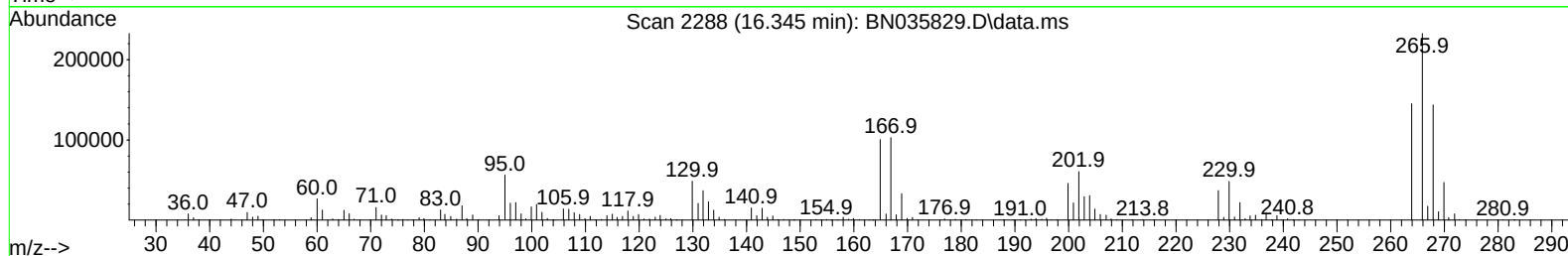
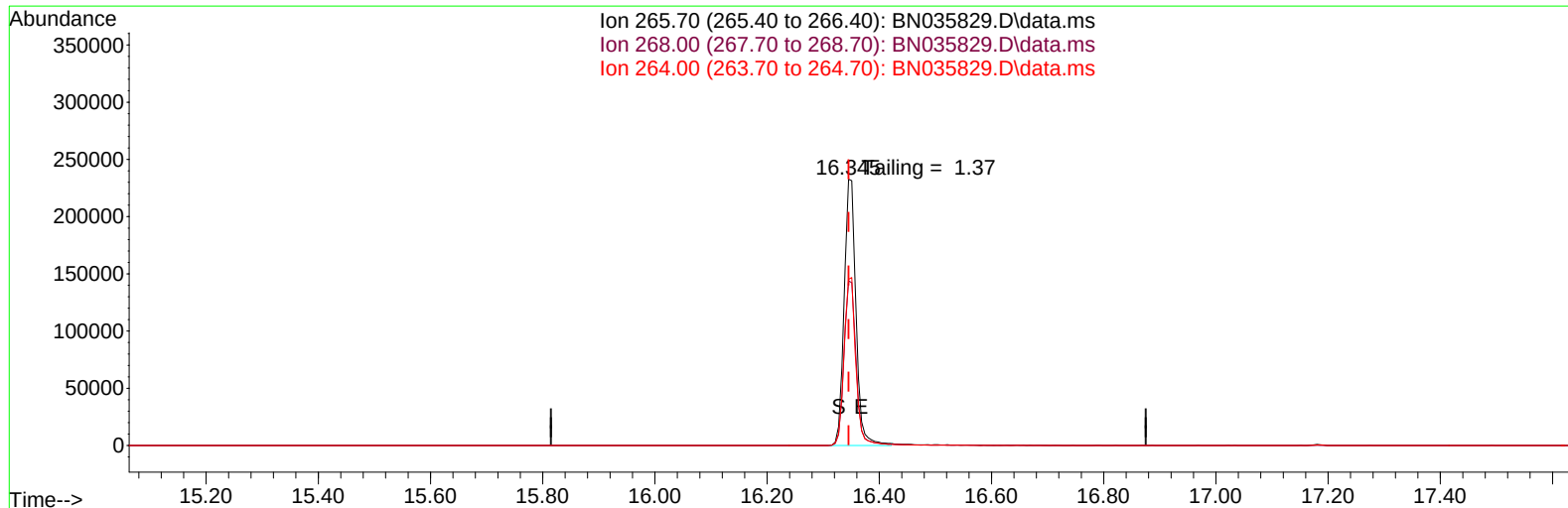
AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.4	72981	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	32.7	102160	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	39.9	124571	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	312085	PASS
199	198	5	9	6.6	20517	PASS
275	198	10	60	27.8	86749	PASS
365	198	1	100	3.9	12312	PASS
441	198	0.01	100	11.4	35683	PASS
442	442	50	100	100.0	215104	PASS
443	442	15	24	19.8	42619	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 04:24:00 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: BN035829.D\data.ms

(70) Pentachlorophenol (C)

16.345min (0.000) 23024.60 ng

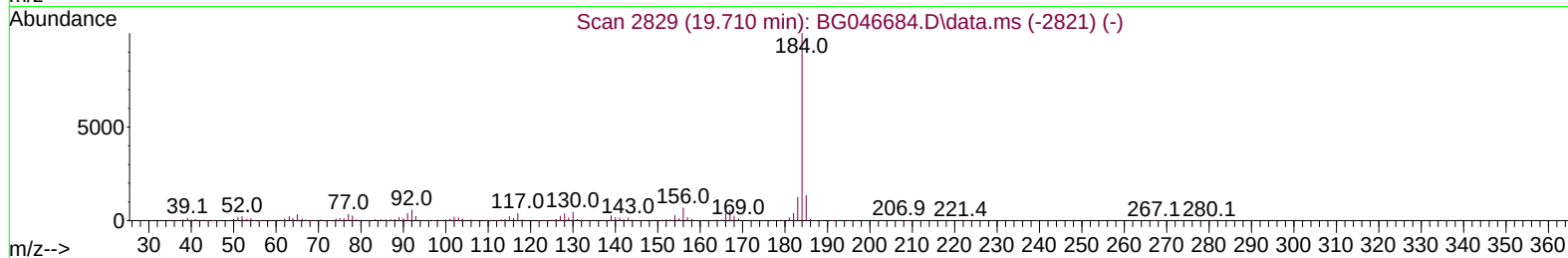
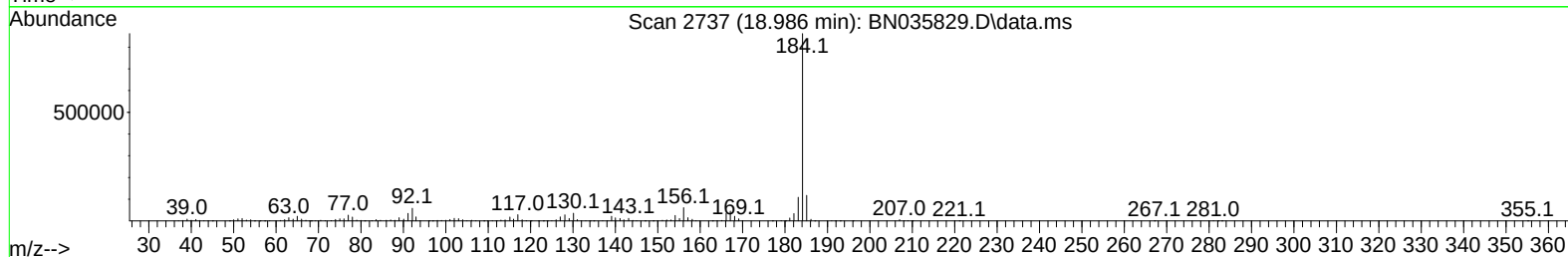
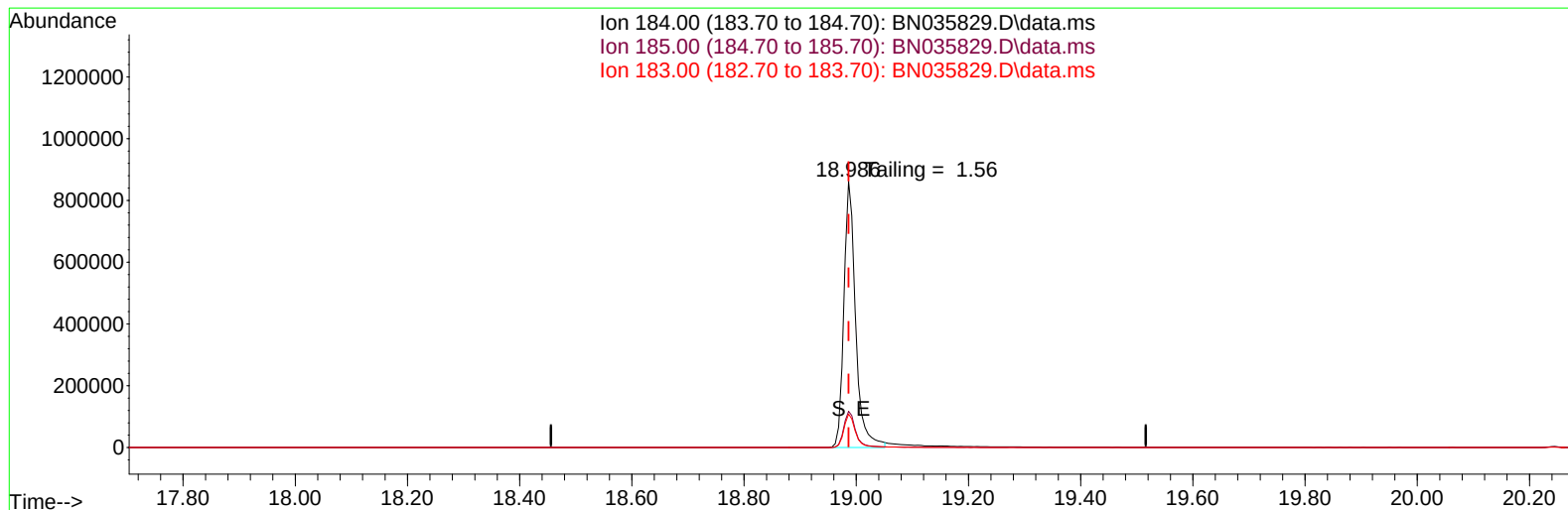
response 344759

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.74
264.00	61.60	62.43
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 04:24:00 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: BN035829.D\data.ms

(77) Benzidine

18.986min (0.000) 0.00 ng

response 1299882

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.60
183.00	13.20	12.60
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

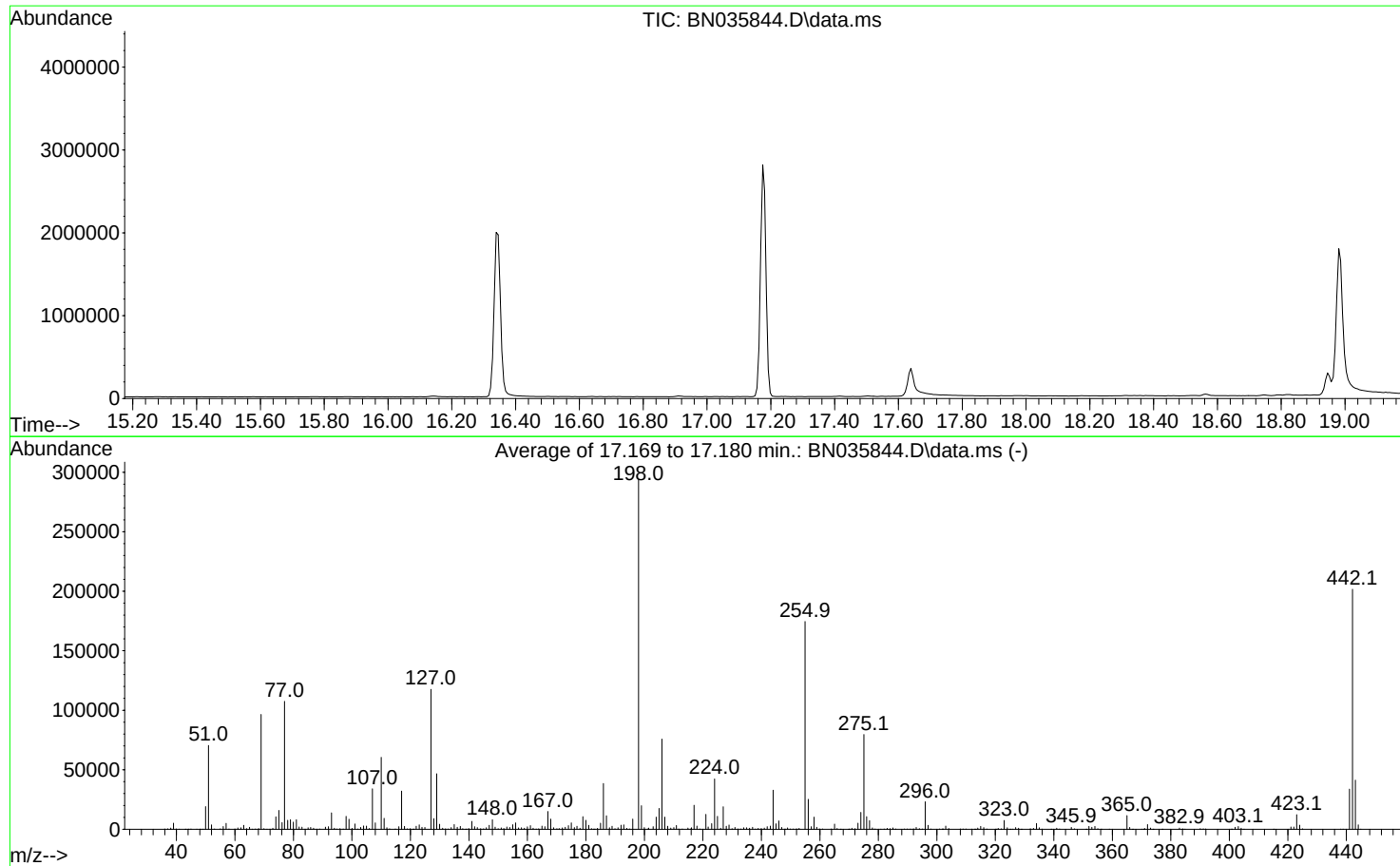
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	<u>BN035829.D</u>
Compound Name	Response	Retention Time
DDT	824107	20.245
DDD	86807	19.798
DDE	4191	19.28
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
90998	915105	9.94

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



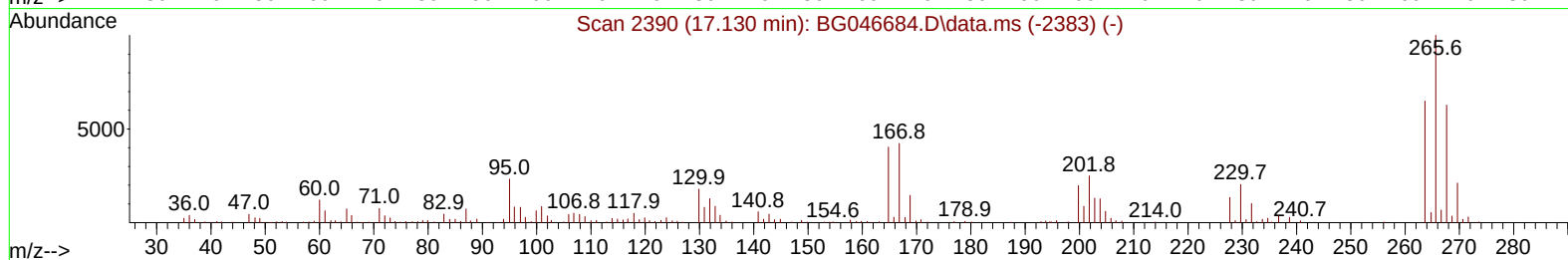
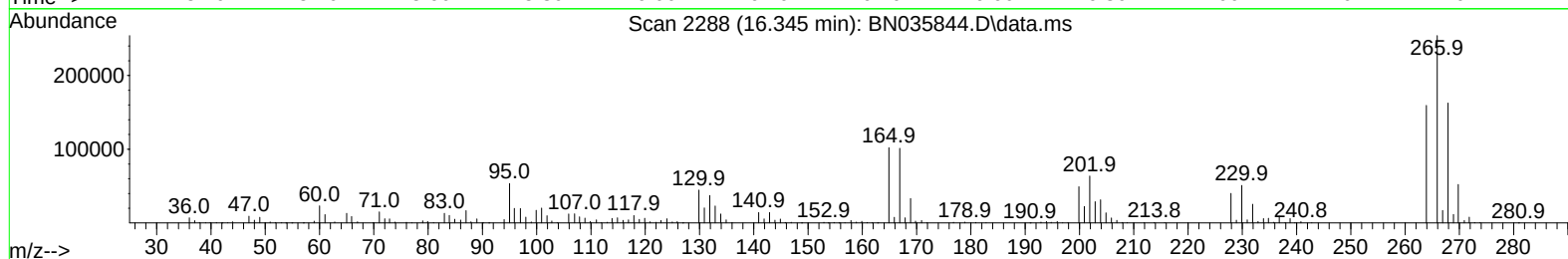
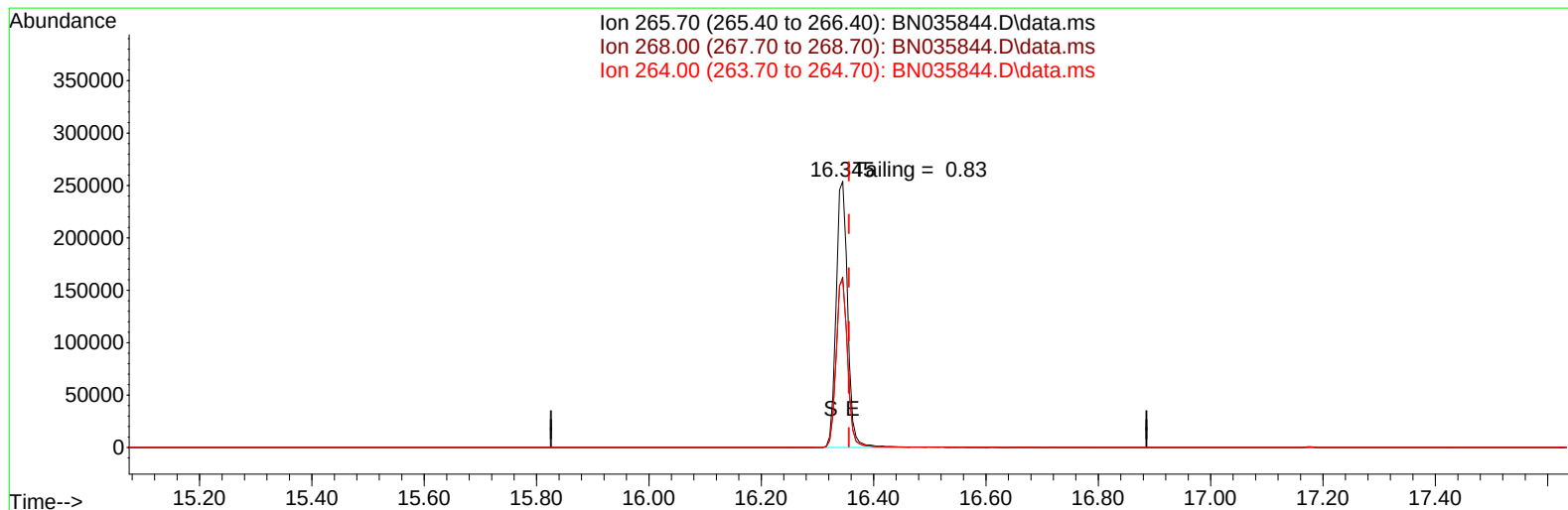
AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	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

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

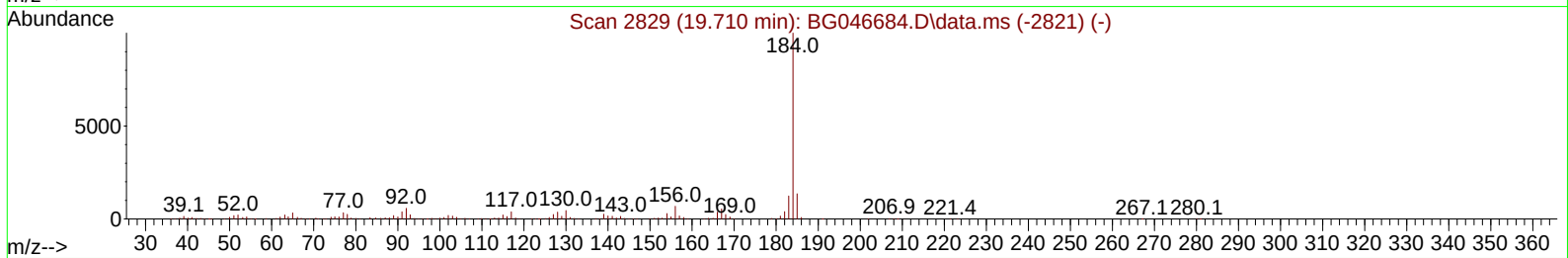
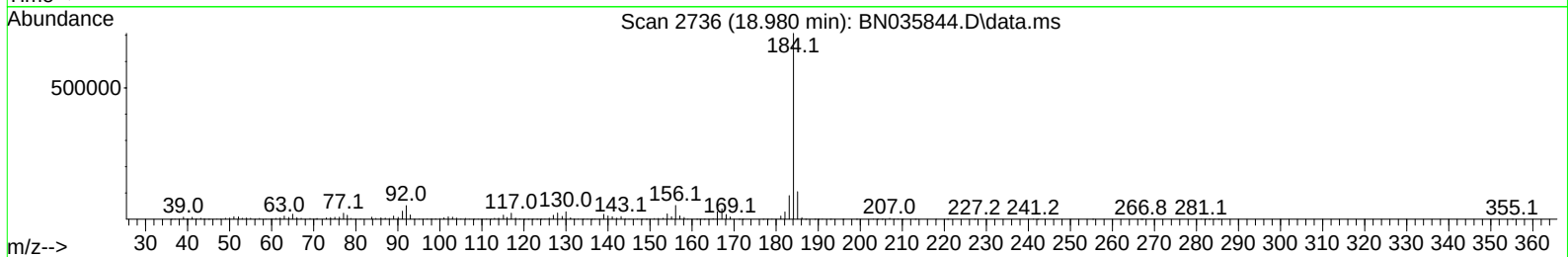
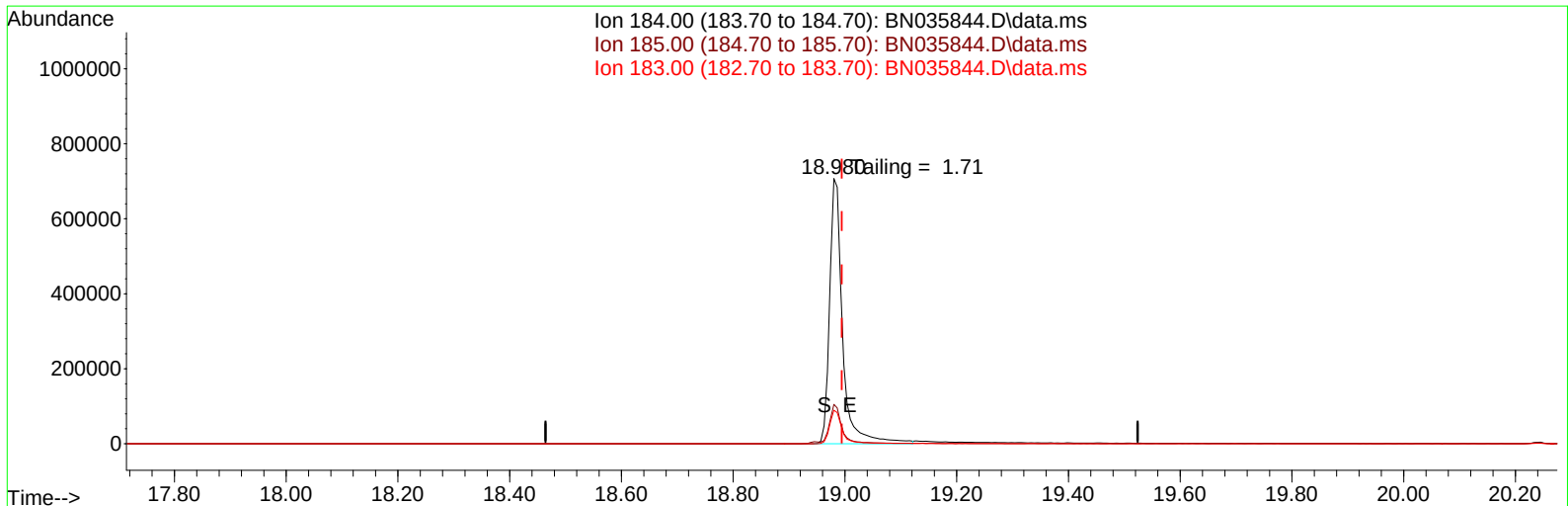
response 363016

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

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/26/2024	BNA_N	<u>BN035844.D</u>
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

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:	PB165828BL	SDG No.:	P5376
Lab Sample ID:	PB165828BL	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
BN035812.D	1	12/23/24 13:29	12/24/24 09:35	PB165828

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	0.34		30 - 150		86%	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	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3200	7.264				
1146-65-2	Naphthalene-d8	6950	10.02				
15067-26-2	Acenaphthene-d10	4350	13.935				
1517-22-2	Phenanthrene-d10	8100	16.711				
1719-03-5	Chrysene-d12	6760	20.956				
1520-96-3	Perylene-d12	6750	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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035812.D
 Acq On : 24 Dec 2024 09:35
 Operator : RC/JU
 Sample : PB165828BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165828BL

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:16:34 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	3197	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	6952	0.400	ng	0.00
13) Acenaphthene-d10	13.935	164	4346	0.400	ng	0.00
19) Phenanthrene-d10	16.711	188	8099	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	6756	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2496	0.312	ng	0.00
5) Phenol-d6	6.484	99	2096	0.218	ng	0.00
8) Nitrobenzene-d5	8.418	82	1782m	0.420	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	3741	0.344	ng	0.02
14) 2,4,6-Tribromophenol	15.475	330	490	0.159	ng	0.02
15) 2-Fluorobiphenyl	12.564	172	5652	0.344	ng	0.02
27) Fluoranthene-d10	18.761	212	9188	0.400	ng	0.00
31) Terphenyl-d14	19.393	244	6413	0.481	ng	0.00

Target Compounds Qvalue

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

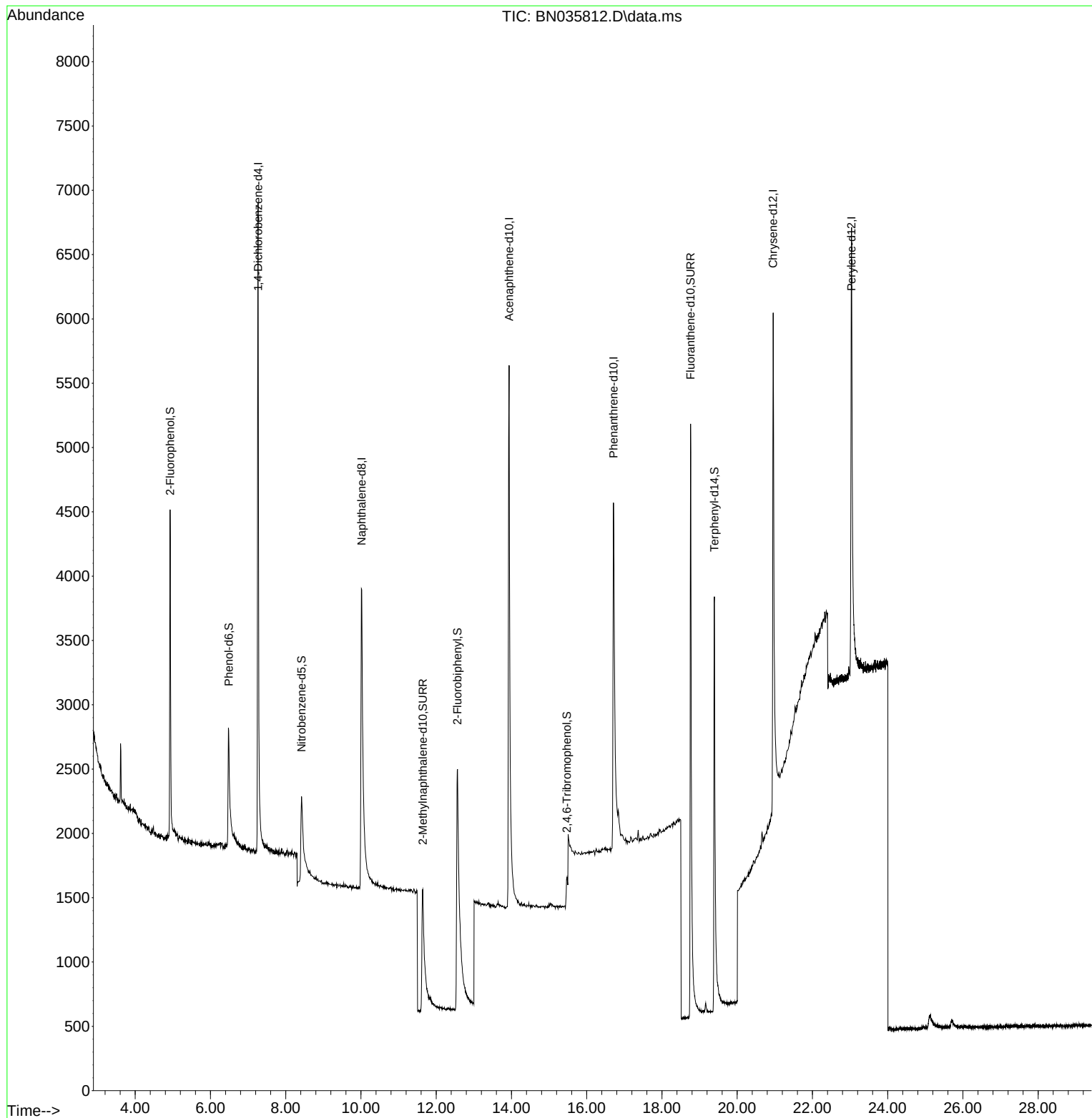
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

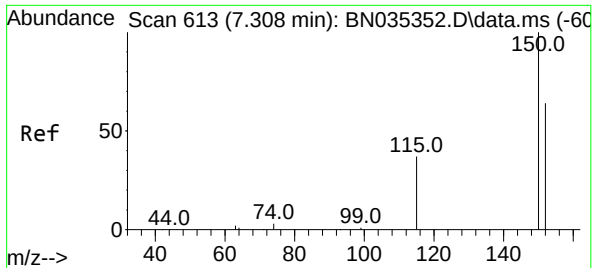
Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

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

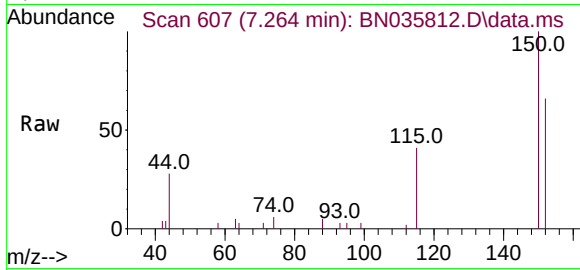
Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

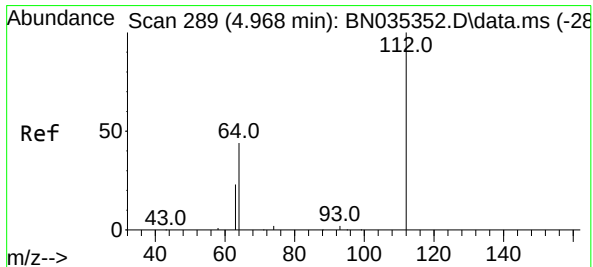
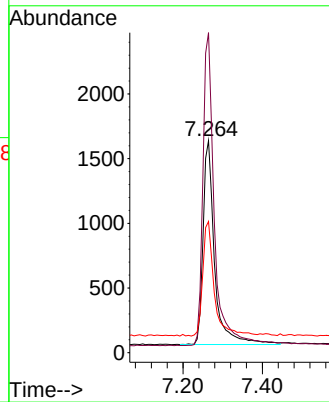
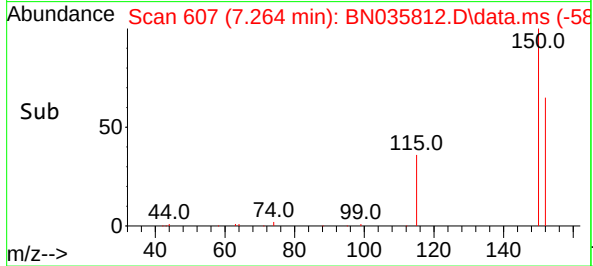
Instrument :
BNA_N
ClientSampleId :
PB165828BL



Tgt Ion:152 Resp: 319
Ion Ratio Lower Upper
152 100
150 150.9 124.0 186.0
115 61.9 49.6 74.4

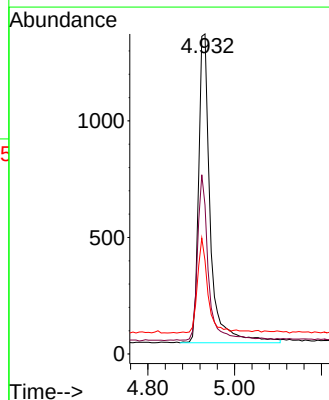
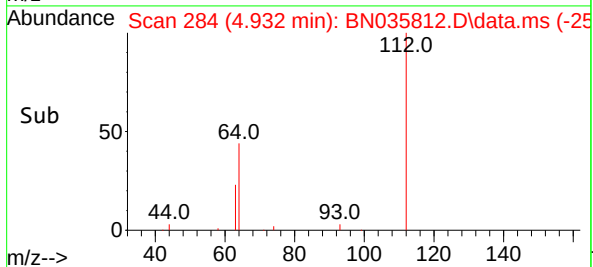
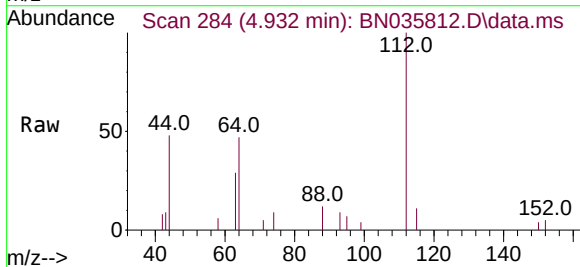
Manual Integrations
APPROVED

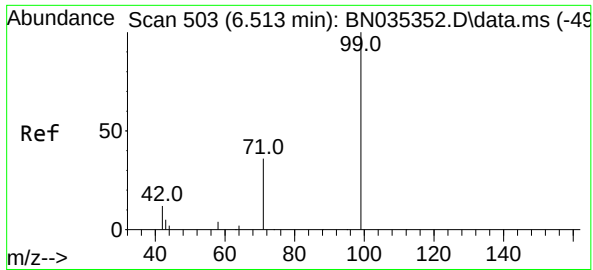
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496
Ion Ratio Lower Upper
112 100
64 49.3 39.8 59.8
63 27.1 21.0 31.6





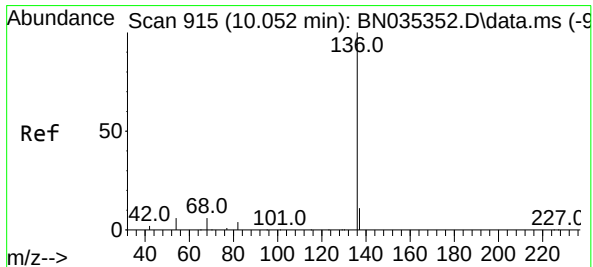
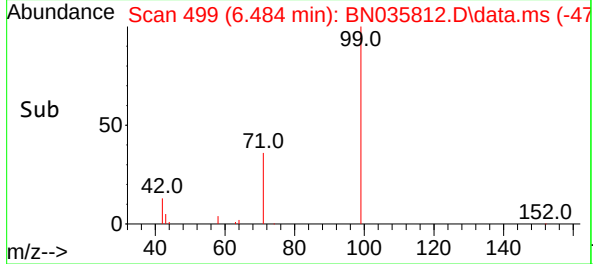
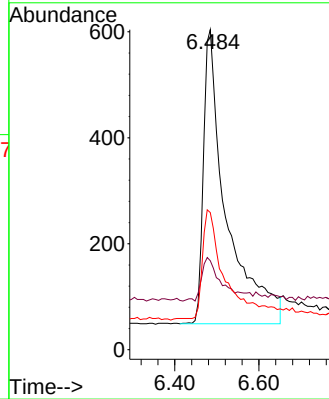
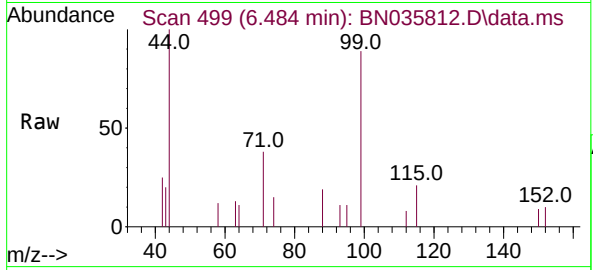
#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:	99	Resp:	2090
Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	37.2	29.3	43.9

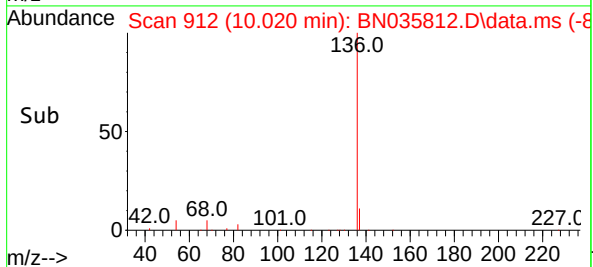
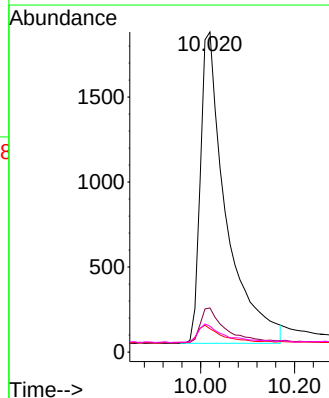
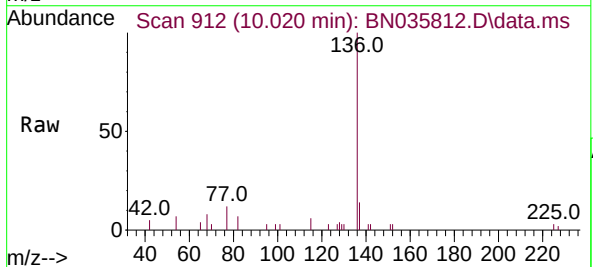
Manual Integrations
APPROVED

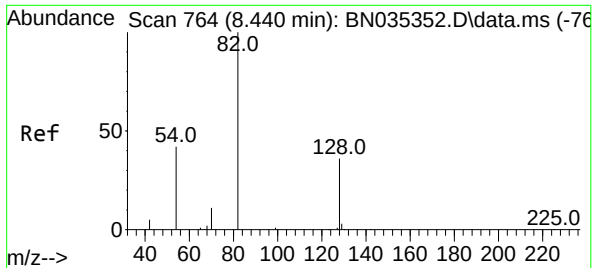
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

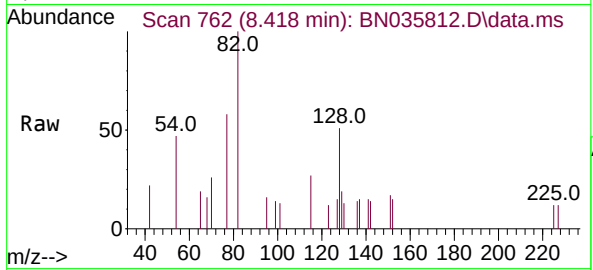
Tgt Ion:	136	Resp:	6952
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.2	15.2
54	7.3	6.1	9.1
68	8.1	6.4	9.6





#8
Nitrobenzene-d5
Concen: 0.420 ng m
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

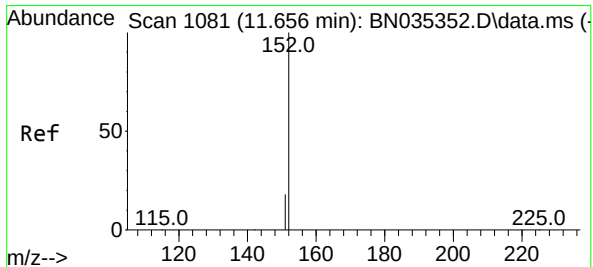
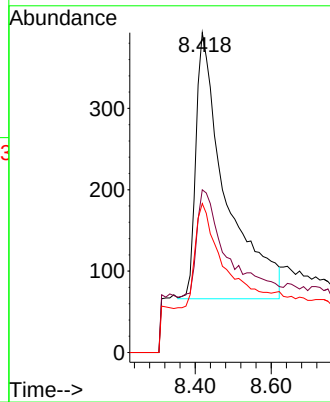
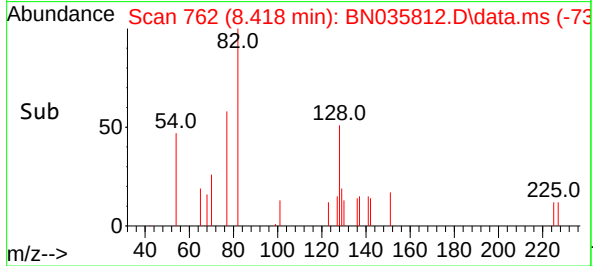
Instrument :
BNA_N
ClientSampleId :
PB165828BL



Tgt Ion: 82 Resp: 178
Ion Ratio Lower Upper
82 100
128 50.9 33.4 50.0
54 46.6 36.7 55.1

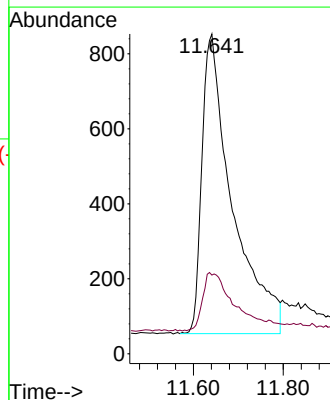
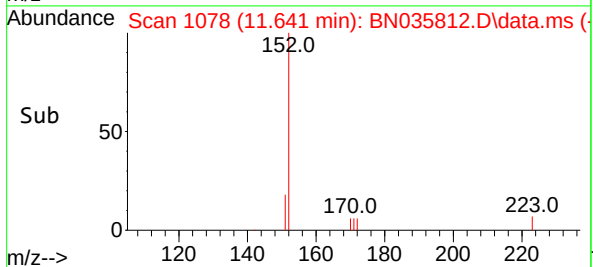
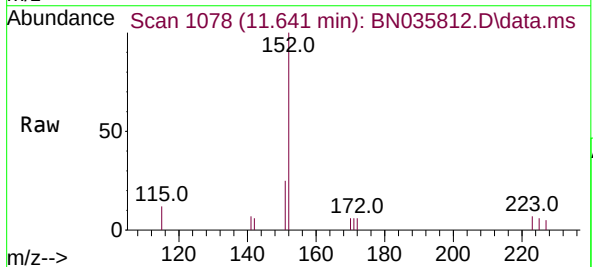
Manual Integrations
APPROVED

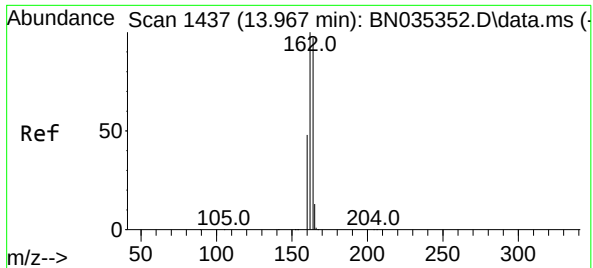
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

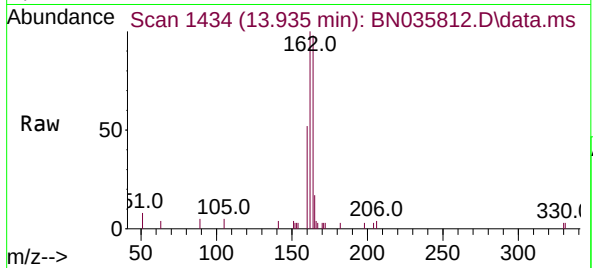
Tgt Ion:152 Resp: 3741
Ion Ratio Lower Upper
152 100
151 20.1 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

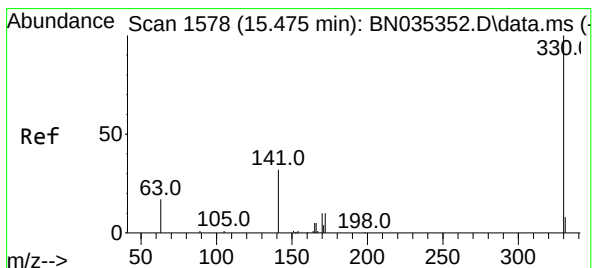
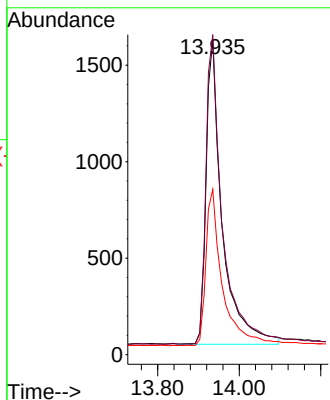
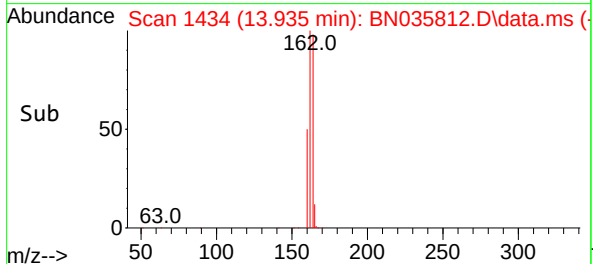
Instrument :
BNA_N
ClientSampleId :
PB165828BL



Tgt Ion:164 Resp: 4340
Ion Ratio Lower Upper
164 100
162 101.6 82.2 123.2
160 52.5 40.1 60.1

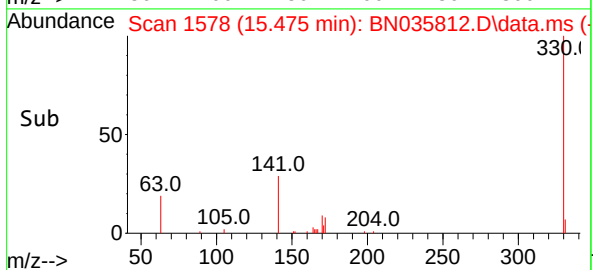
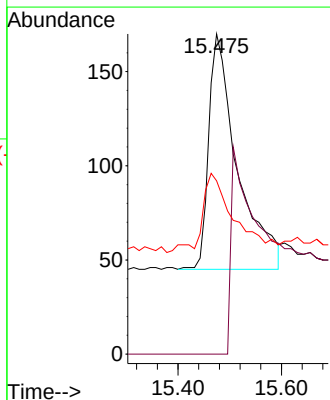
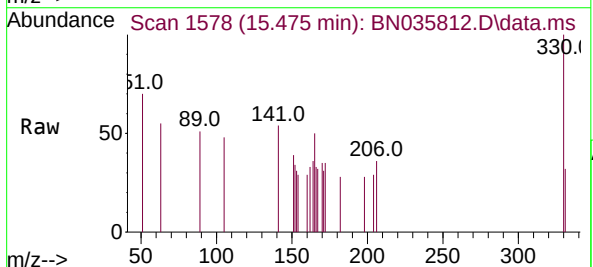
Manual Integrations
APPROVED

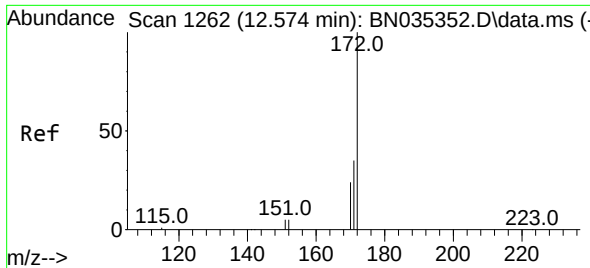
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

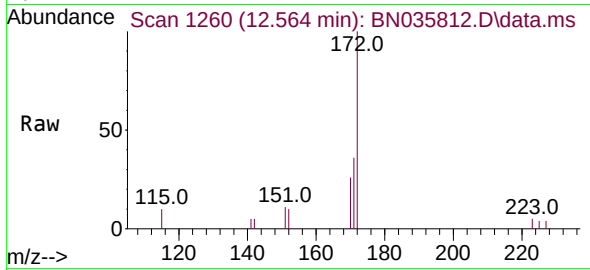
Tgt Ion:330 Resp: 490
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 11
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

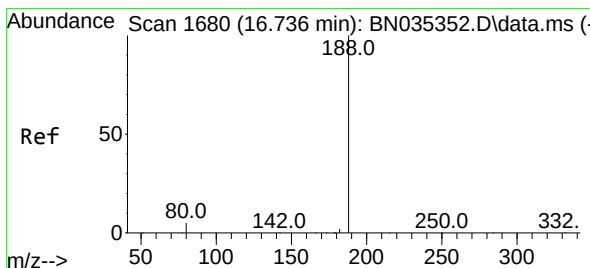
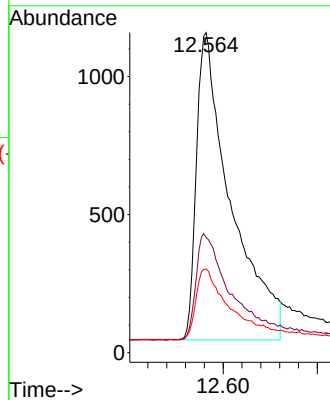
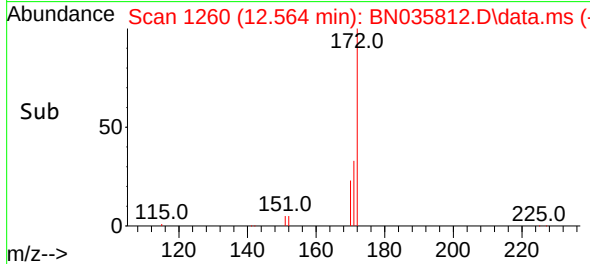
Instrument :
BNA_N
ClientSampleId :
PB165828BL



Tgt Ion:172 Resp: 565
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 26.1 19.8 29.8

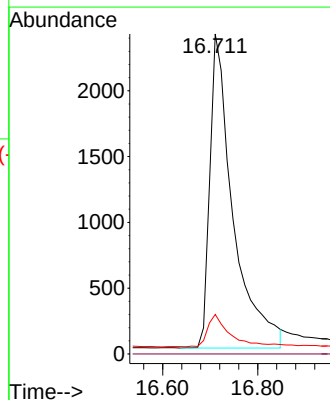
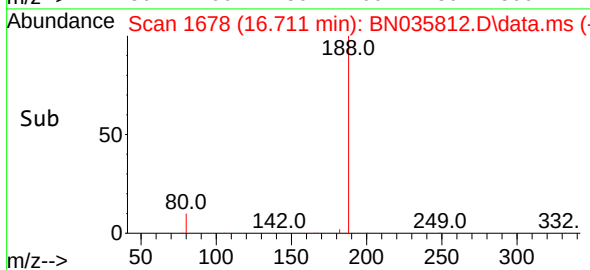
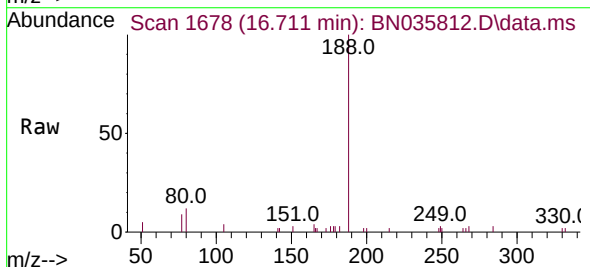
Manual Integrations
APPROVED

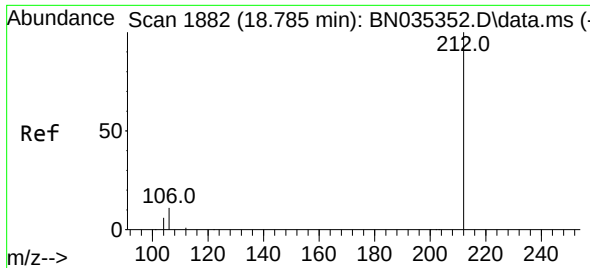
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.3 4.6 6.8#





#27

Fluoranthene-d10

Concen: 0.400 ng

RT: 18.761 min Scan# 1877

Delta R.T. -0.000 min

Lab File: BN035812.D

Acq: 24 Dec 2024 09:35

Instrument :

BNA_N

ClientSampleId :

PB165828BL

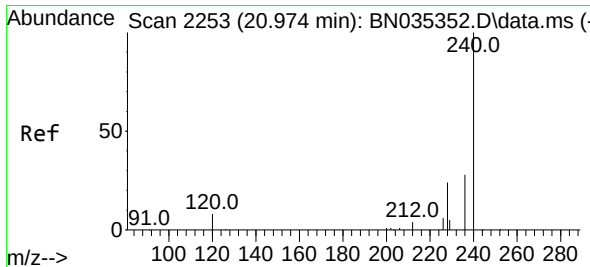
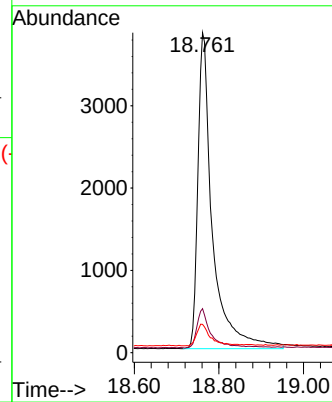
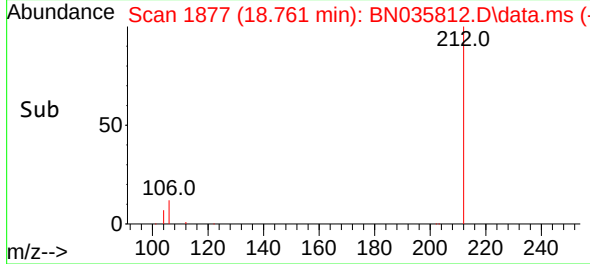
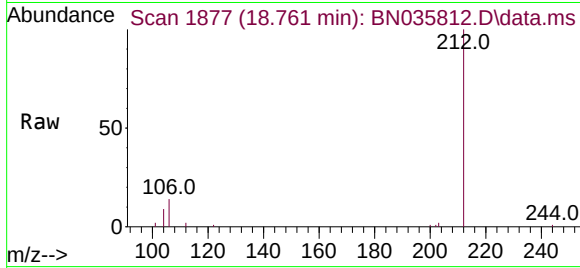
Tgt Ion:	212	Resp:	918
Ion Ratio	Lower	Upper	
212	100		
106	11.5	9.2	13.8
104	6.3	5.3	7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#29

Chrysene-d12

Concen: 0.400 ng

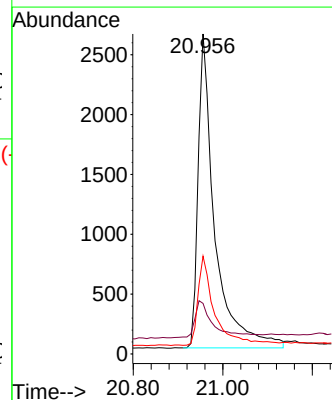
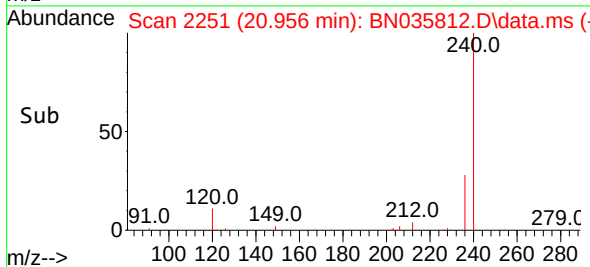
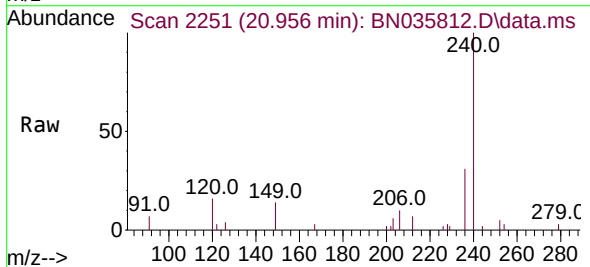
RT: 20.956 min Scan# 2251

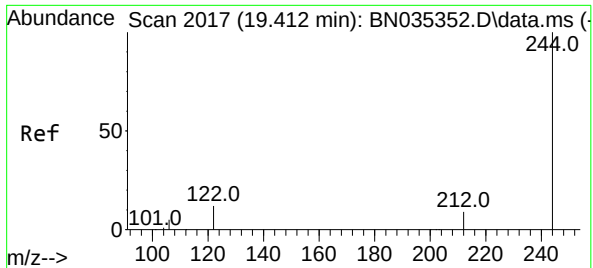
Delta R.T. -0.000 min

Lab File: BN035812.D

Acq: 24 Dec 2024 09:35

Tgt Ion:	240	Resp:	6756
Ion Ratio	Lower	Upper	
240	100		
120	15.8	7.9	11.9
236	30.6	22.9	34.3





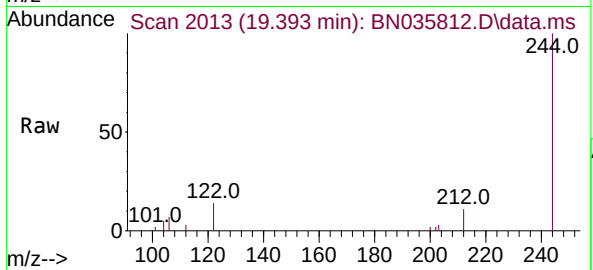
#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 2017
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :

BNA_N

ClientSampleId :

PB165828BL

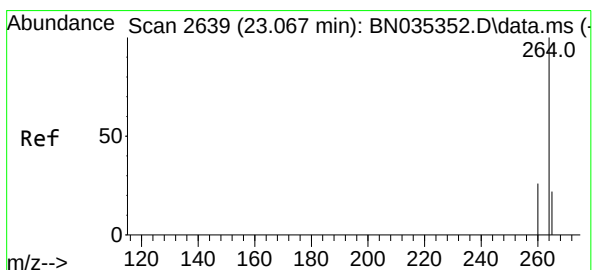
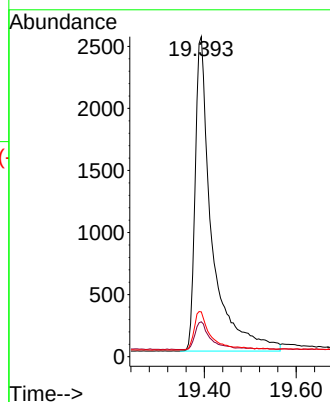


Tgt Ion:244 Resp: 641
Ion Ratio Lower Upper
244 100
212 10.9 8.1 12.1
122 14.0 10.3 15.5

Manual Integrations

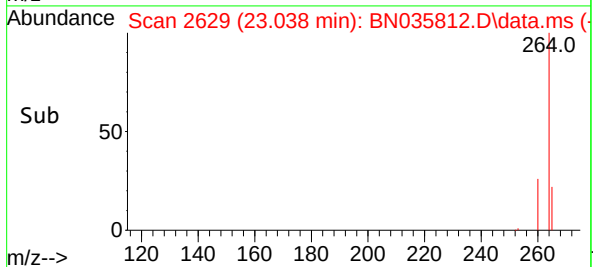
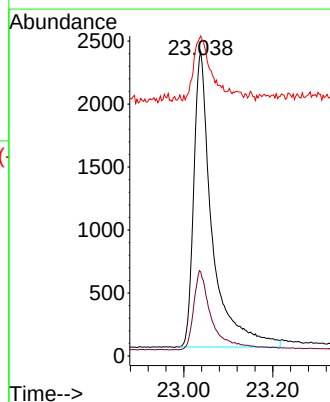
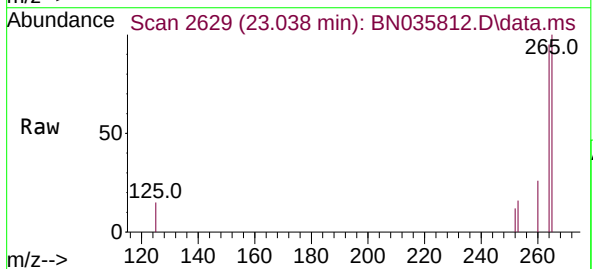
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747
Ion Ratio Lower Upper
264 100
260 27.6 21.4 32.2
265 105.1 40.2 60.4#



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:	PB165828BS	SDG No.:	P5376
Lab Sample ID:	PB165828BS	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
BN035852.D	1	12/23/24 13:29	12/26/24 14:19	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.47		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4430	7.257				
1146-65-2	Naphthalene-d8	10900	9.998				
15067-26-2	Acenaphthene-d10	6430	13.914				
1517-22-2	Phenanthrene-d10	13000	16.686				
1719-03-5	Chrysene-d12	9260	20.938				
1520-96-3	Perylene-d12	9150	23.023				

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 : BN035852.D
 Acq On : 26 Dec 2024 14:19
 Operator : RC/JU
 Sample : PB165828BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165828BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:41:16 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	4431	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	10905	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	6427	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	13001	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9257	0.400	ng	#-0.02
35) Perylene-d12	23.023	264	9148	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3645	0.329	ng	-0.01
5) Phenol-d6	6.470	99	4024	0.302	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3243m	0.487	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	7947	0.466	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	913	0.200	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	9578	0.394	ng	-0.02
27) Fluoranthene-d10	18.747	212	12504	0.339	ng	-0.01
31) Terphenyl-d14	19.379	244	8698	0.476	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1467	0.346	ng	# 88
3) n-Nitrosodimethylamine	3.263	42	1440	0.408	ng	# 88
6) bis(2-Chloroethyl)ether	6.708	93	3983	0.355	ng	99
9) Naphthalene	10.052	128	11935	0.415	ng	99
10) Hexachlorobutadiene	10.340	225	2551	0.385	ng	# 99
12) 2-Methylnaphthalene	11.681	142	7534	0.366	ng	96
16) Acenaphthylene	13.625	152	10983	0.407	ng	100
17) Acenaphthene	13.978	154	6982	0.390	ng	99
18) Fluorene	14.983	166	9056	0.353	ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	645	0.505	ng	92
21) 4-Bromophenyl-phenylether	15.904	248	2685	0.353	ng	97
22) Hexachlorobenzene	15.991	284	3862	0.432	ng	96
23) Atrazine	16.189	200	2110	0.390	ng	96
24) Pentachlorophenol	16.363	266	1614	0.415	ng	# 85
25) Phenanthrene	16.735	178	14161	0.397	ng	100
26) Anthracene	16.822	178	12409	0.384	ng	99
28) Fluoranthene	18.780	202	15692	0.326	ng	99
30) Pyrene	19.147	202	15917	0.466	ng	100
32) Benzo(a)anthracene	20.929	228	11832	0.365	ng	99
33) Chrysene	20.974	228	14241	0.426	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	5313	0.415	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15551	0.435	ng	99
37) Benzo(b)fluoranthene	22.415	252	19434	0.581	ng	# 96
38) Benzo(k)fluoranthene	22.456	252	14469	0.439	ng	95
39) Benzo(a)pyrene	22.936	252	11624	0.422	ng	# 91
40) Dibenzo(a,h)anthracene	25.061	278	11696	0.414	ng	95
41) Benzo(g,h,i)perylene	25.649	276	12710	0.431	ng	98

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

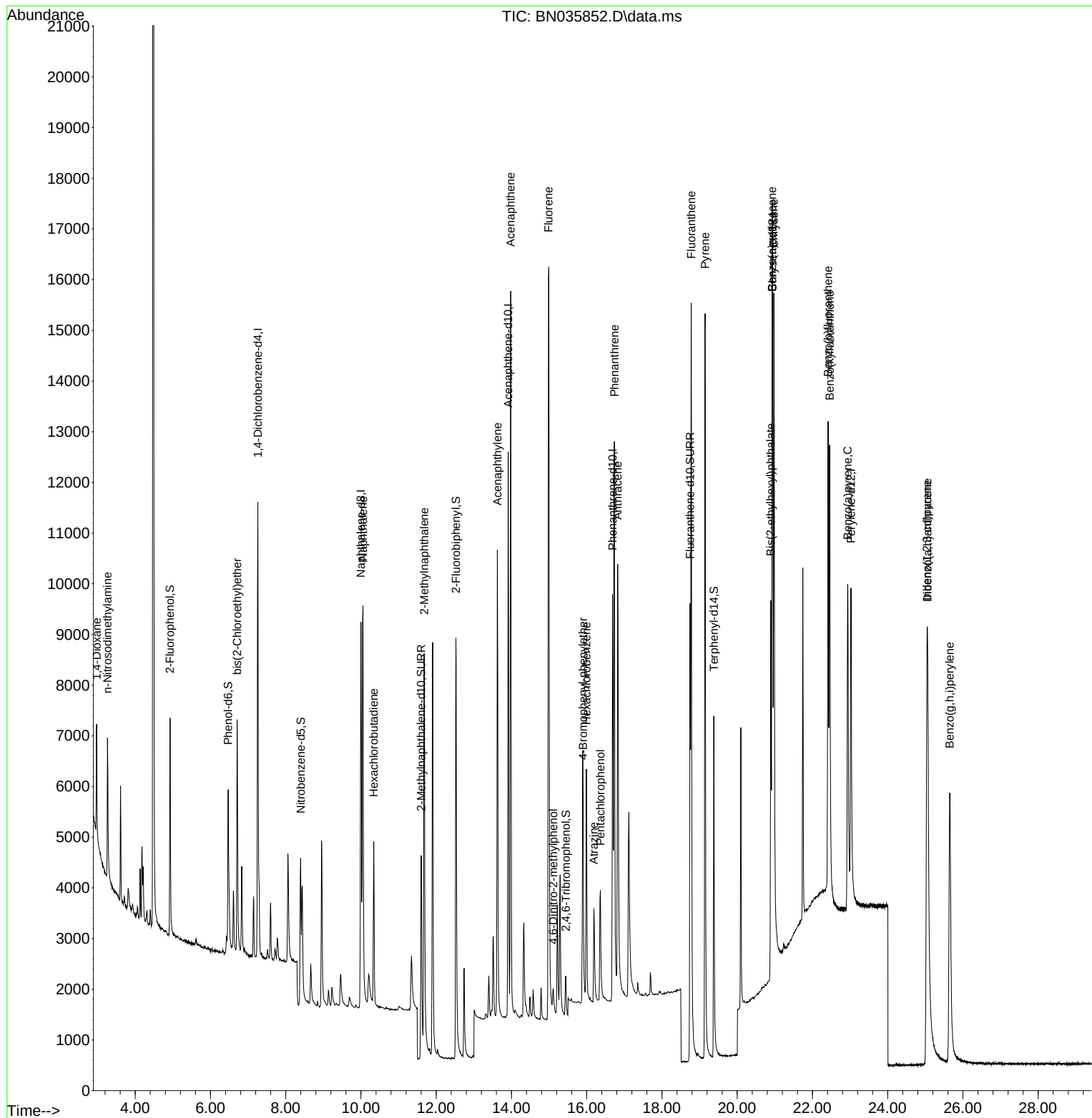
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035852.D
 Acq On : 26 Dec 2024 14:19
 Operator : RC/JU
 Sample : PB165828BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

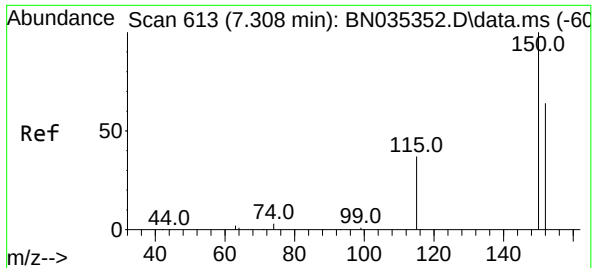
Instrument :
 BNA_N
 ClientSampleId :
 PB165828BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
 Supervised By :mohammad ahmed 12/30/2024

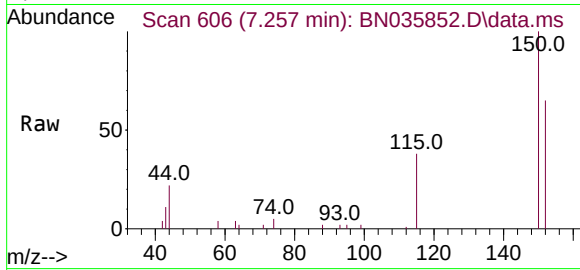
Quant Time: Dec 27 00:41:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

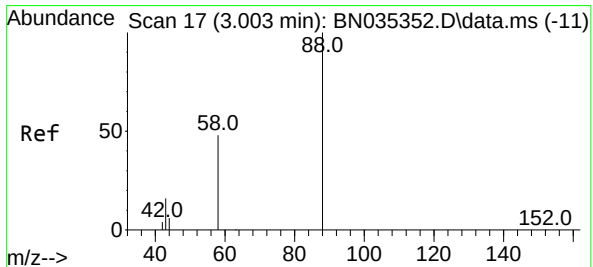
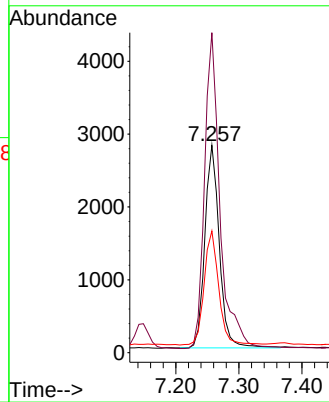
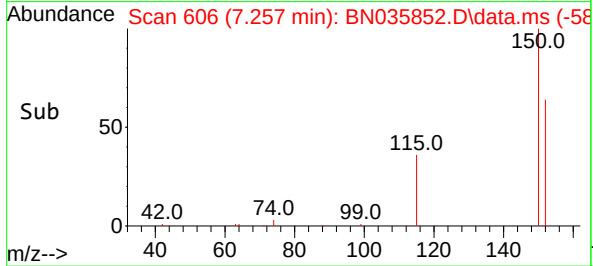
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:152 Resp: 443
Ion Ratio Lower Upper
152 100
150 154.4 124.0 186.0
115 58.7 49.6 74.4

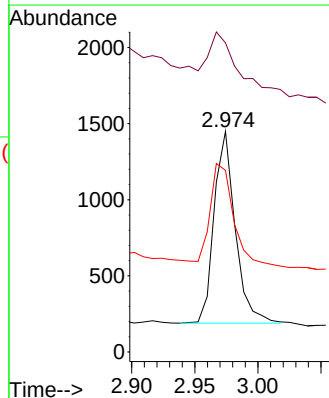
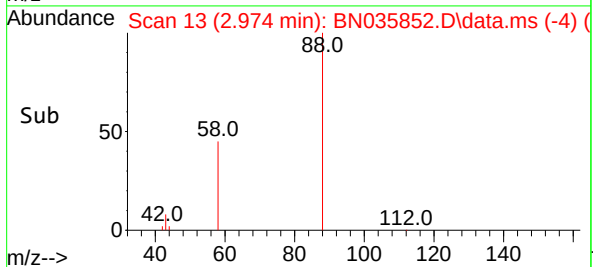
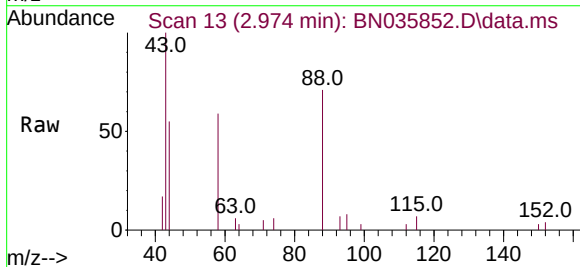
Manual Integrations
APPROVED

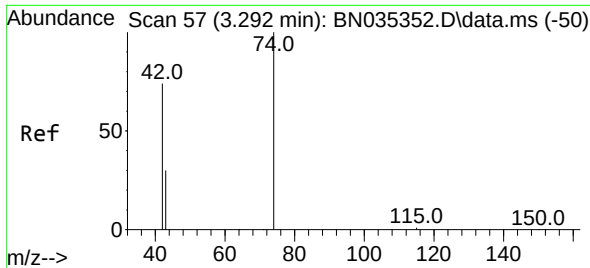
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467
Ion Ratio Lower Upper
88 100
43 35.7 17.2 25.8#
58 59.5 44.5 66.7





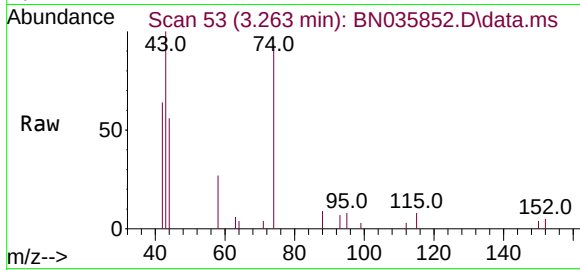
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

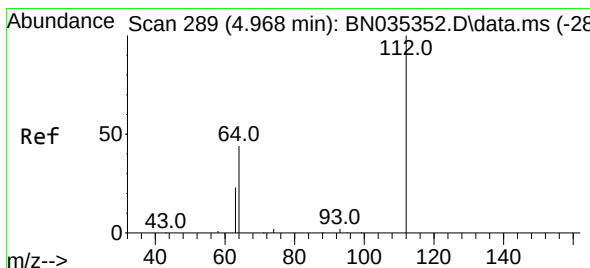
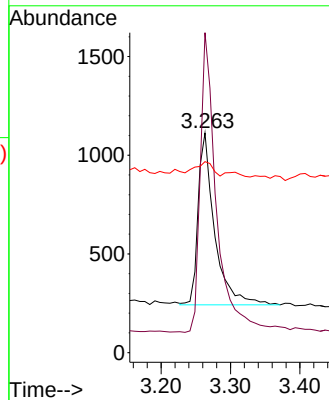
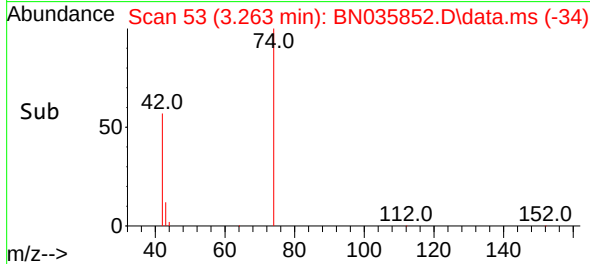


Tgt Ion: 42 Resp: 1440
Ion Ratio Lower Upper
42 100
74 172.0 124.9 187.3
44 8.5 2.2 3.4

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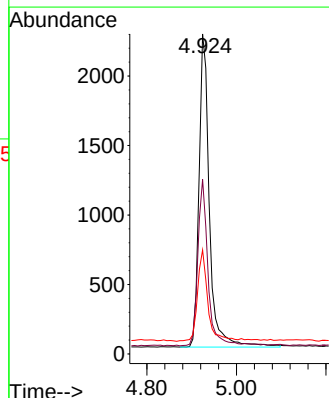
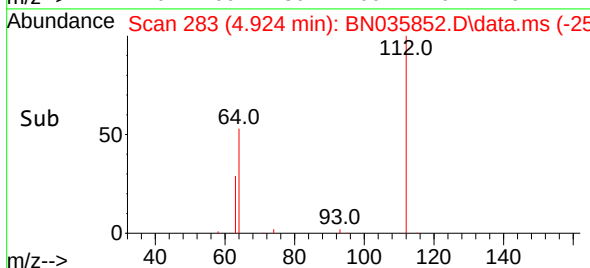
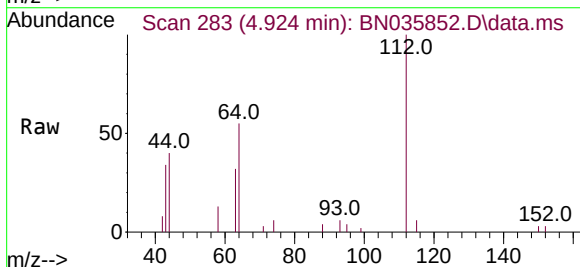
APPROVED

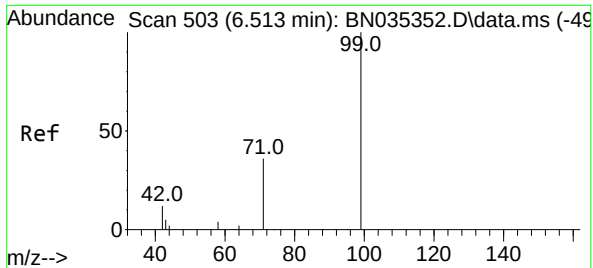
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 28.7 21.0 31.6





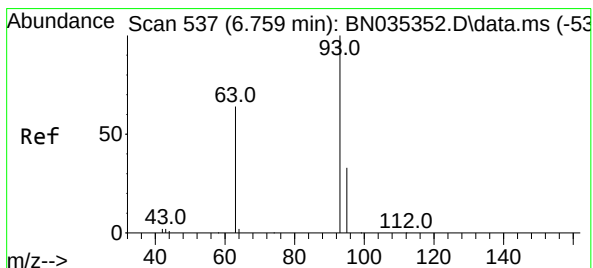
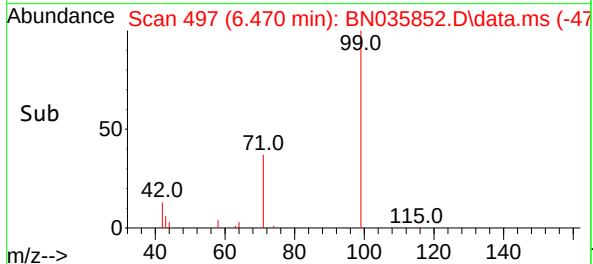
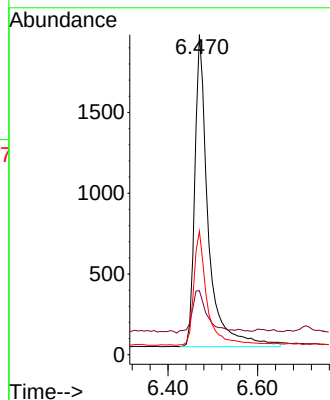
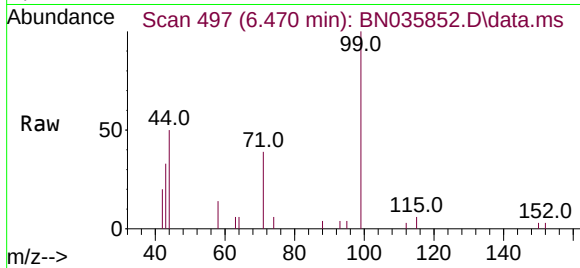
#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion: 99 Resp: 4024
Ion Ratio Lower Upper
99 100
42 15.6 11.4 17.2
71 36.4 29.3 43.9

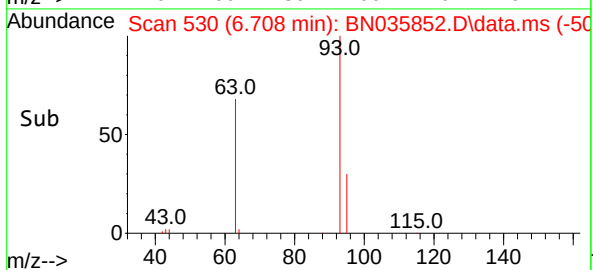
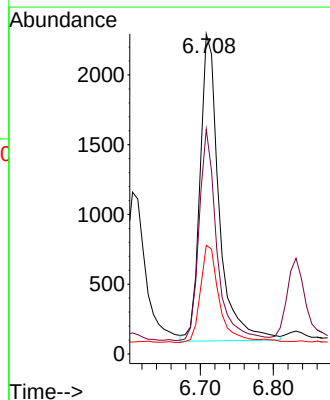
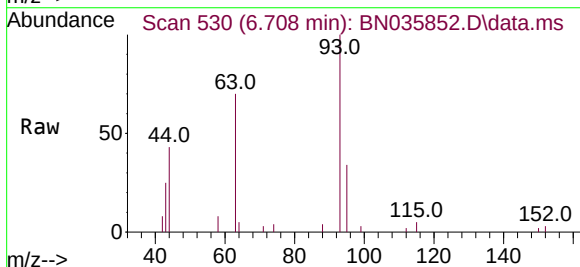
Manual Integrations
APPROVED

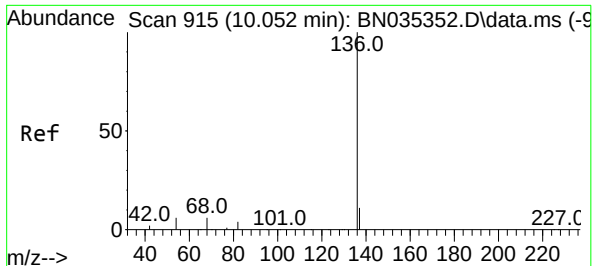
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983
Ion Ratio Lower Upper
93 100
63 64.4 50.4 75.6
95 32.1 25.7 38.5





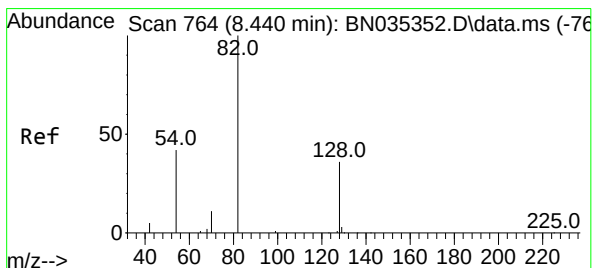
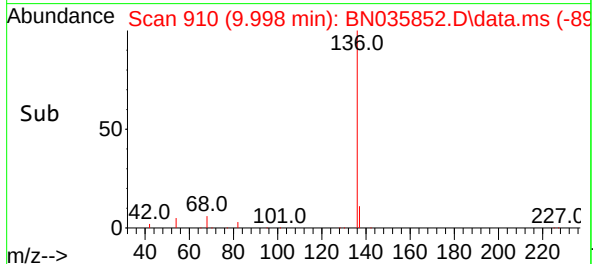
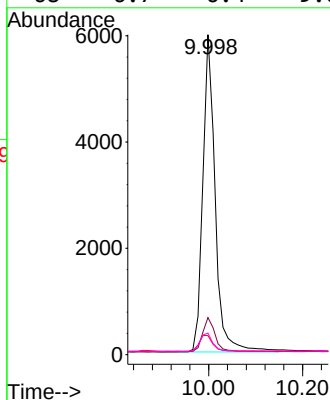
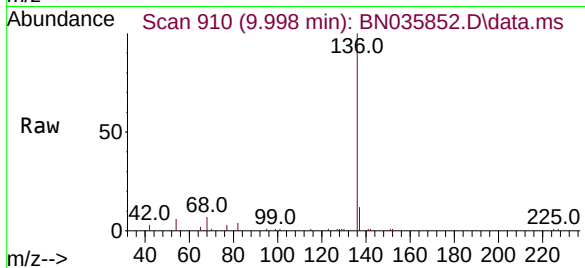
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:136 Resp: 1090
Ion Ratio Lower Upper
136 100
137 11.6 10.2 15.2
54 5.9 6.1 9.1
68 6.7 6.4 9.6

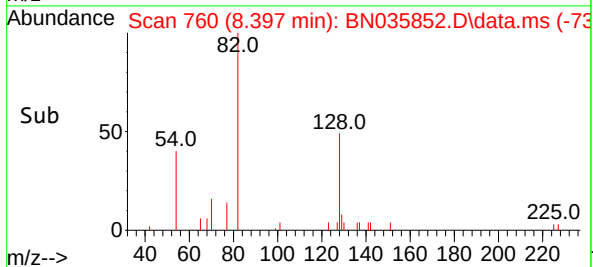
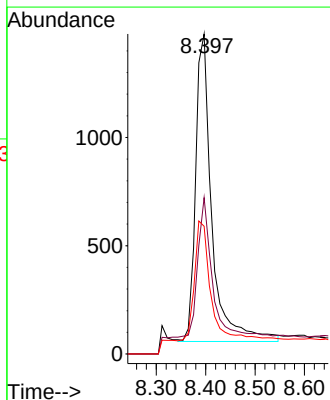
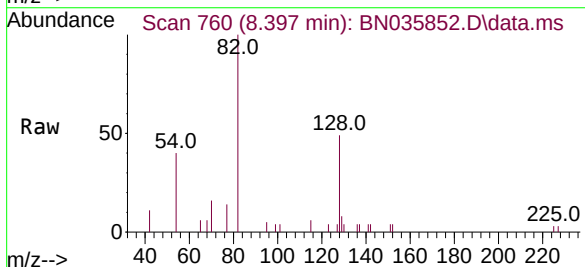
Manual Integrations
APPROVED

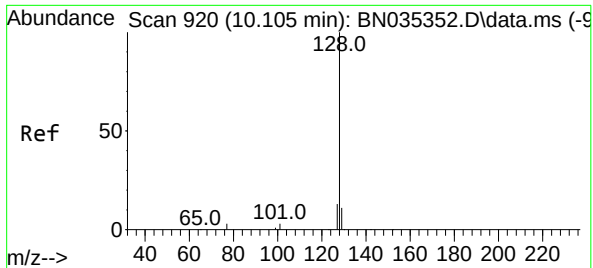
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.487 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 82 Resp: 3243
Ion Ratio Lower Upper
82 100
128 48.8 33.4 50.0
54 39.9 36.7 55.1





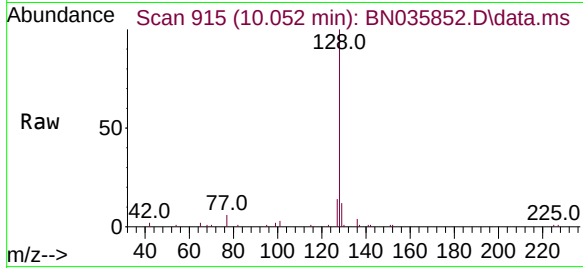
#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

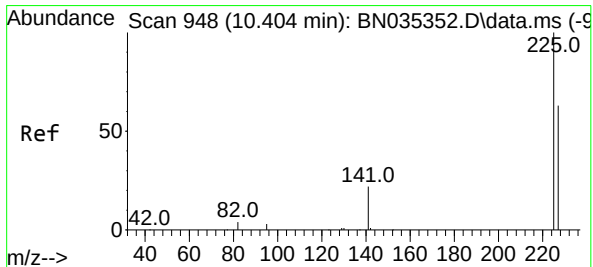
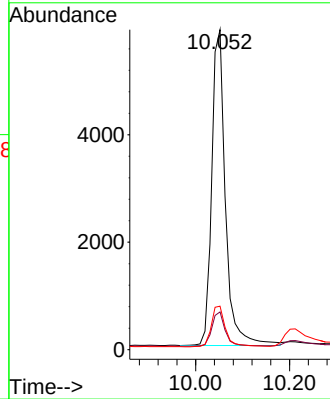
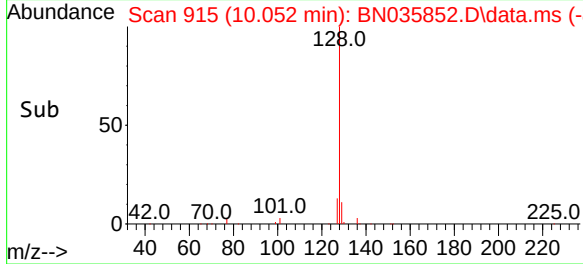
Tgt Ion:128 Resp: 1193
Ion Ratio Lower Upper
128 100
129 11.8 9.8 14.6
127 13.6 11.4 17.2

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

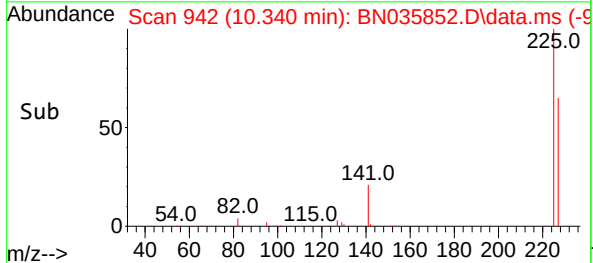
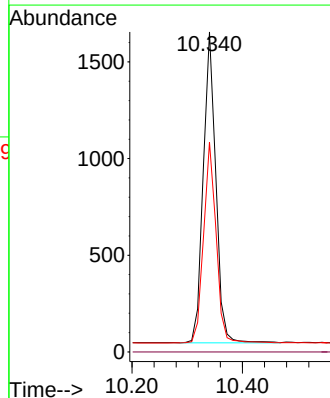
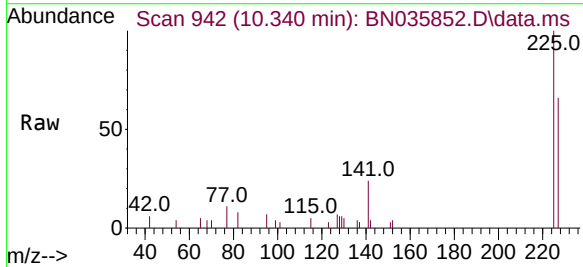


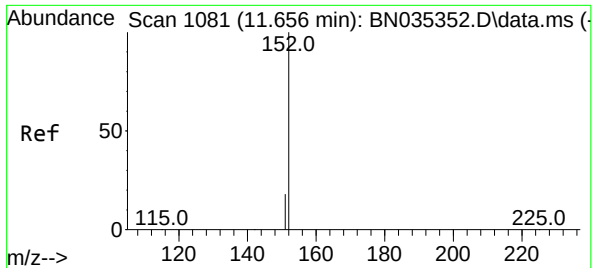
(-8



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

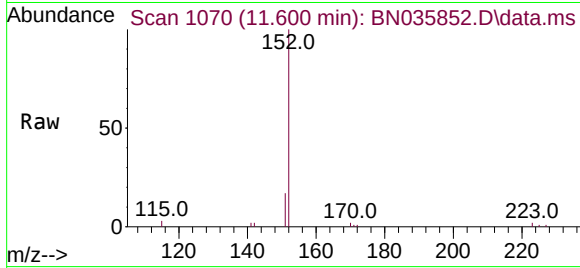
Tgt Ion:225 Resp: 2551
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

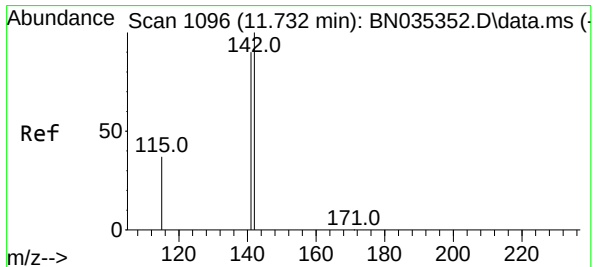
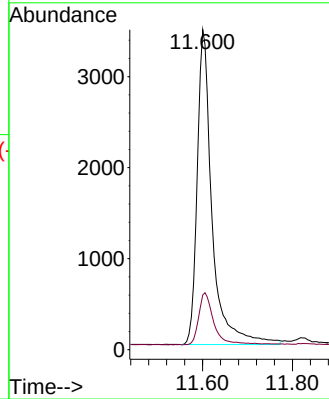
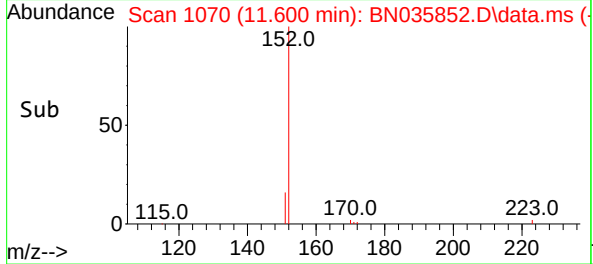
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:152 Resp: 794
Ion Ratio Lower Upper
152 100
151 16.8 16.6 25.0

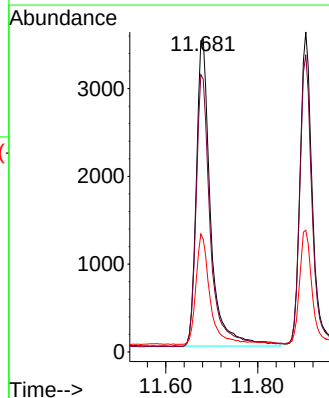
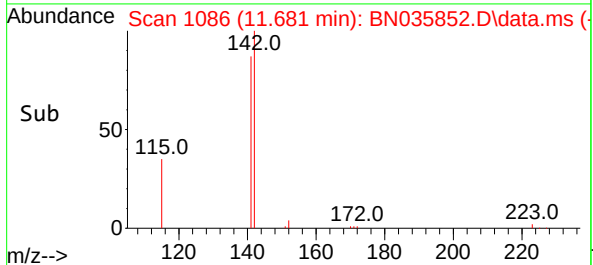
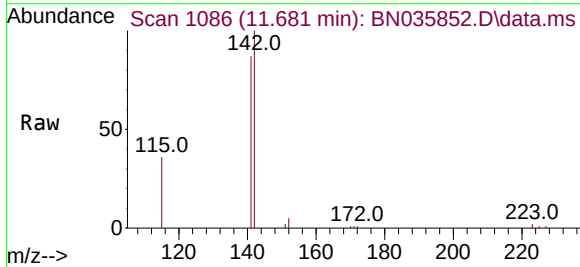
Manual Integrations
APPROVED

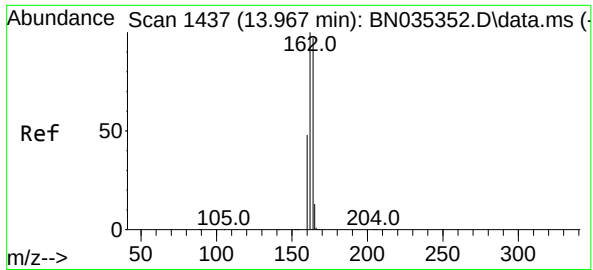
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

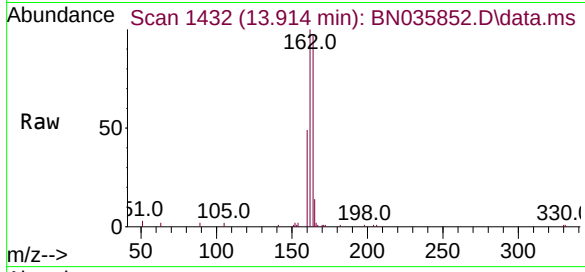
Tgt Ion:142 Resp: 7534
Ion Ratio Lower Upper
142 100
141 87.3 72.2 108.4
115 36.1 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

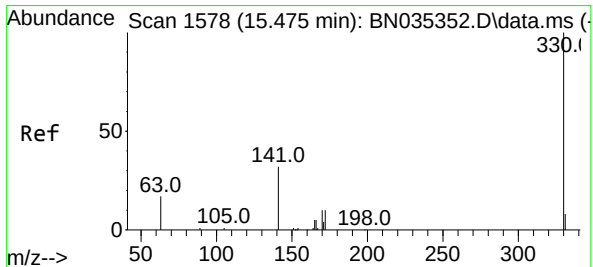
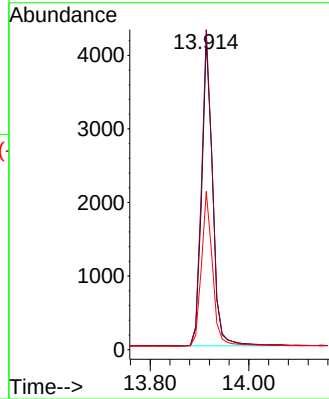
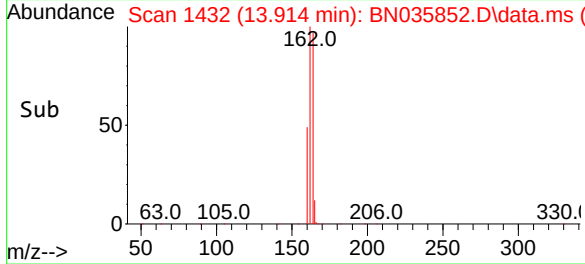
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:164 Resp: 642
Ion Ratio Lower Upper
164 100
162 103.4 82.2 123.2
160 51.1 40.1 60.1

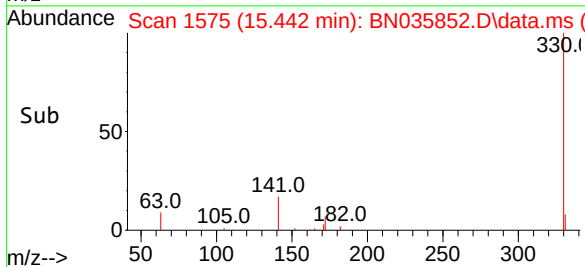
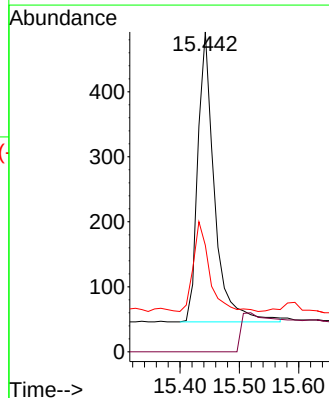
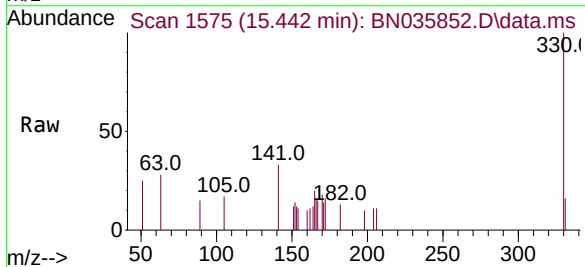
Manual Integrations
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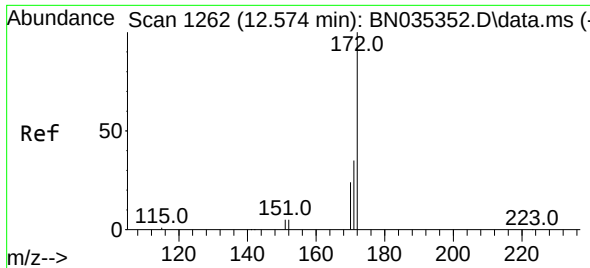
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.1 26.6 40.0





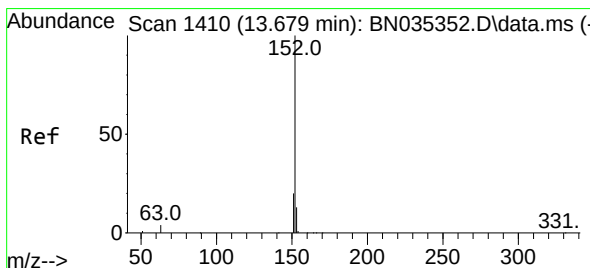
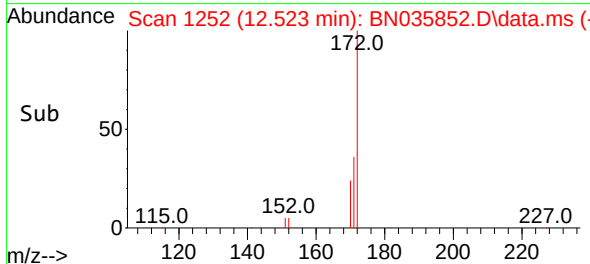
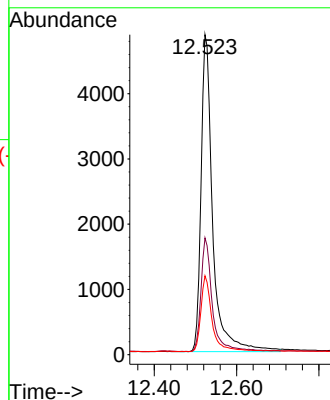
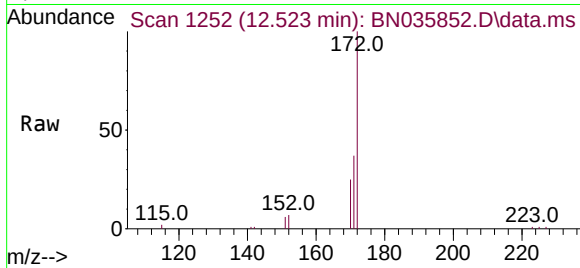
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:172 Resp: 9578
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.6 19.8 29.8

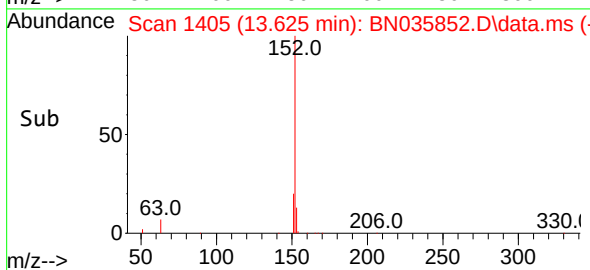
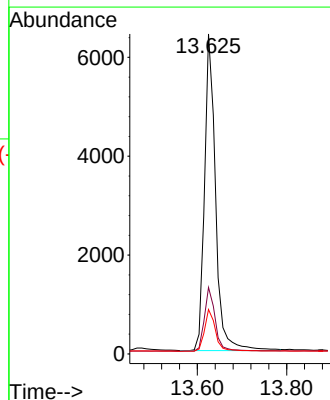
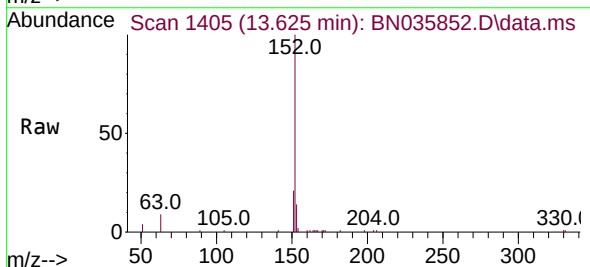
Manual Integrations
APPROVED

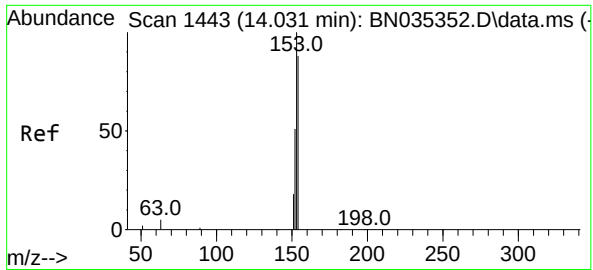
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

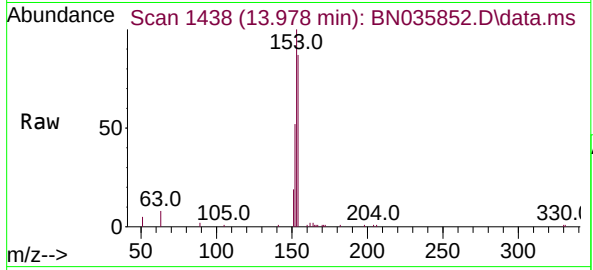
Tgt Ion:152 Resp: 10983
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.3 10.4 15.6





#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

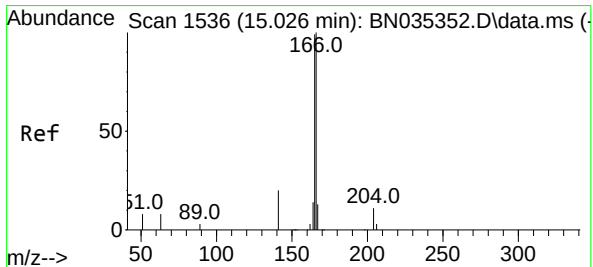
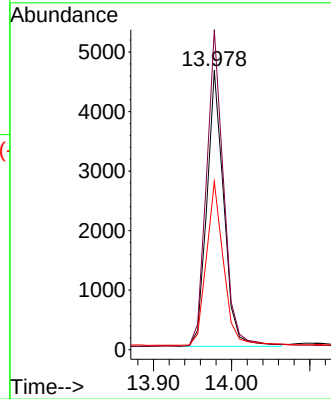
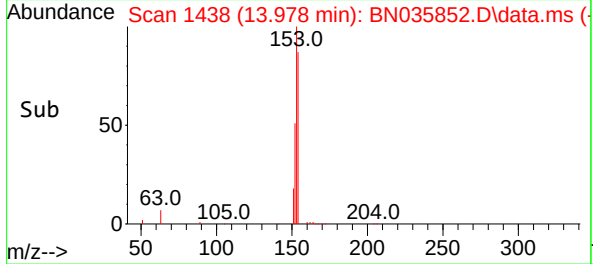
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:154 Resp: 698
Ion Ratio Lower Upper
154 100
153 117.4 92.6 139.0
152 60.2 49.0 73.6

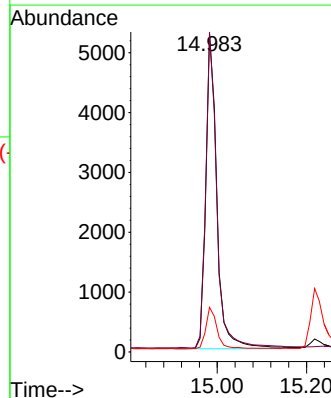
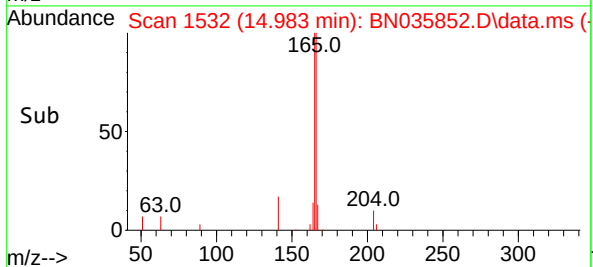
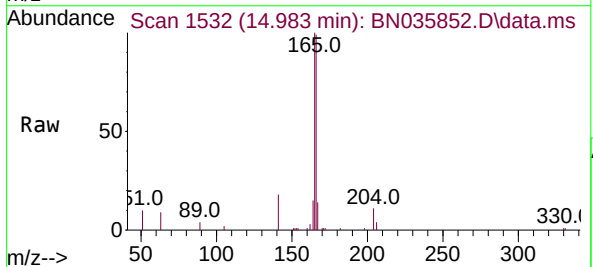
Manual Integrations
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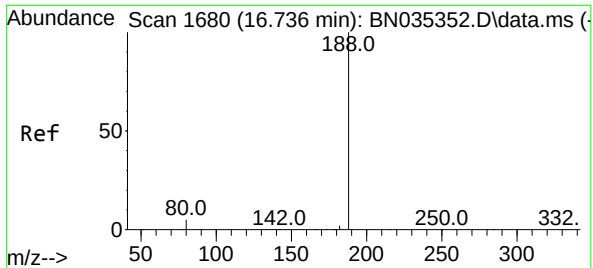
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

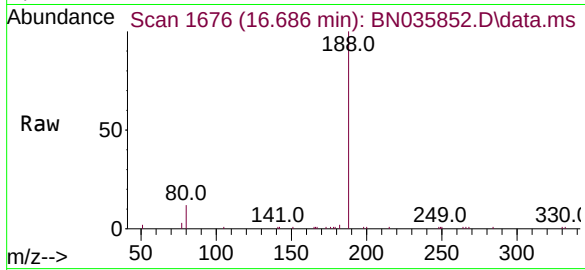
Tgt Ion:166 Resp: 9056
Ion Ratio Lower Upper
166 100
165 99.5 79.7 119.5
167 13.2 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

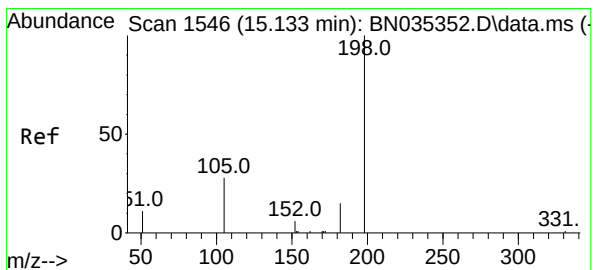
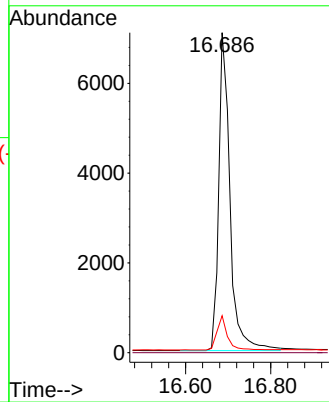
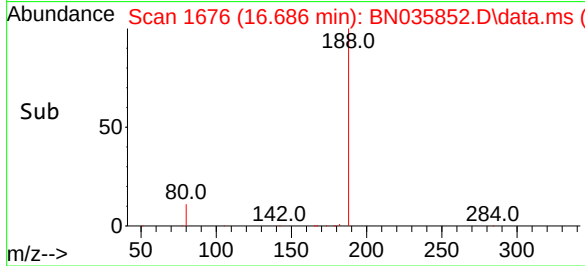
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:188 Resp: 1300
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 4.6 6.8

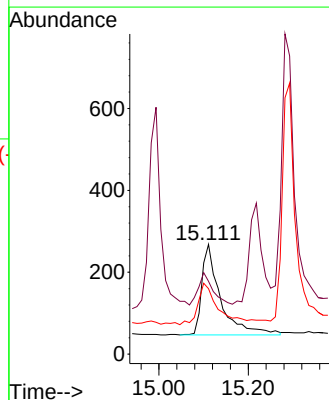
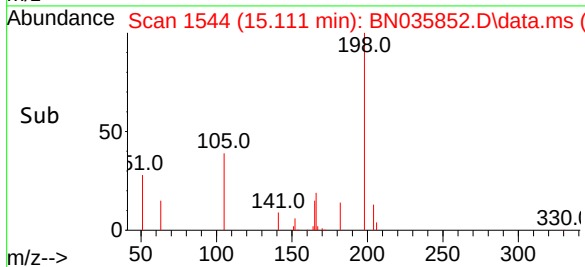
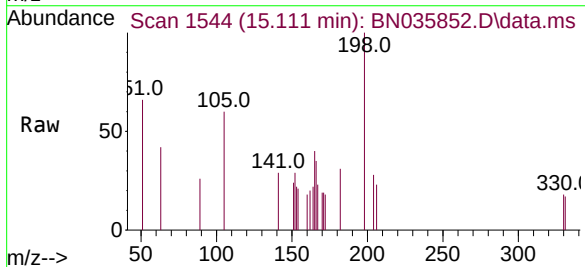
Manual Integrations
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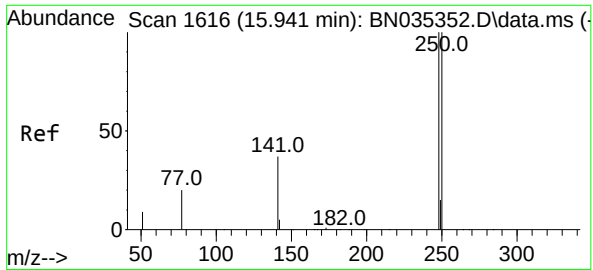
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

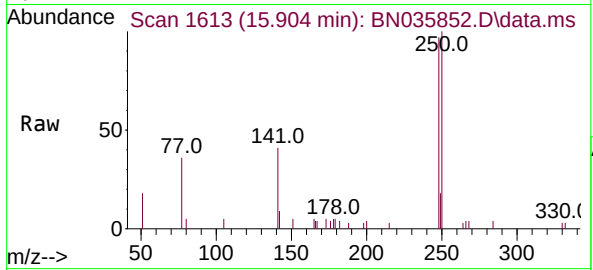
Tgt Ion:198 Resp: 645
Ion Ratio Lower Upper
198 100
51 66.4 46.5 69.7
105 59.7 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

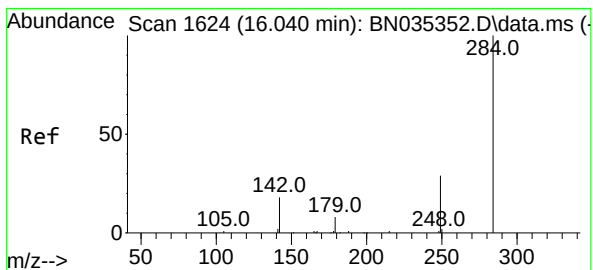
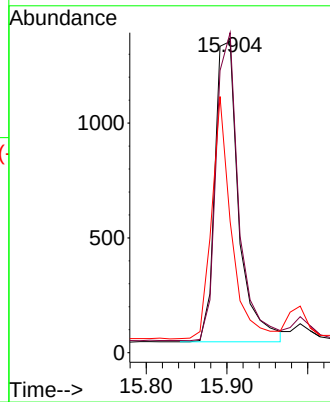
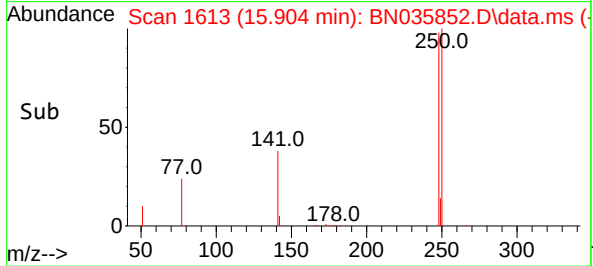
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:248 Resp: 268
Ion Ratio Lower Upper
248 100
250 102.8 80.6 120.8
141 42.2 31.5 47.3

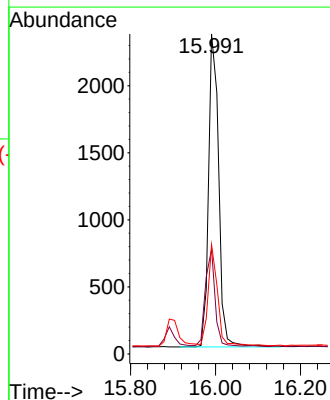
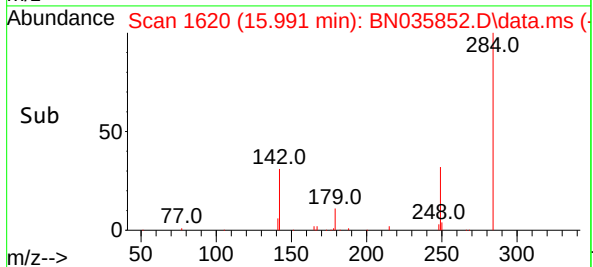
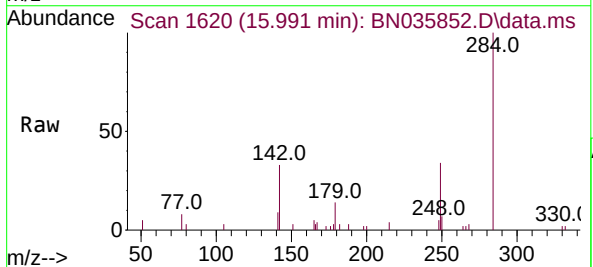
Manual Integrations
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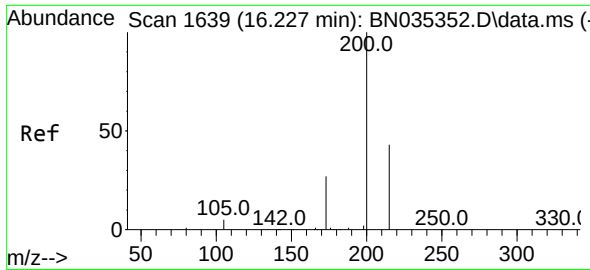
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862
Ion Ratio Lower Upper
284 100
142 29.3 26.7 40.1
249 30.2 24.6 36.8





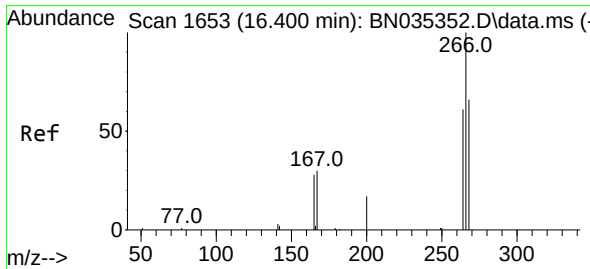
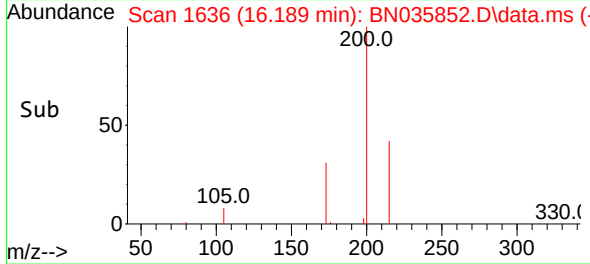
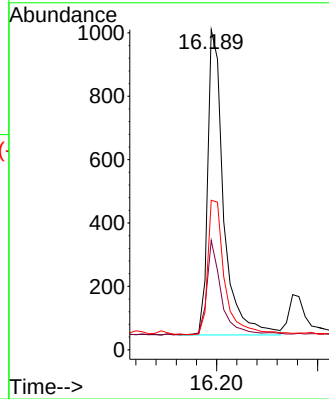
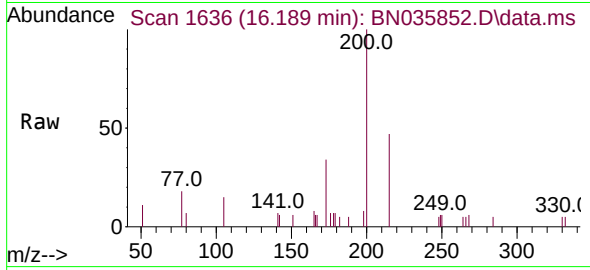
#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:200 Resp: 2110
Ion Ratio Lower Upper
200 100
173 34.2 24.1 36.1
215 46.7 36.9 55.3

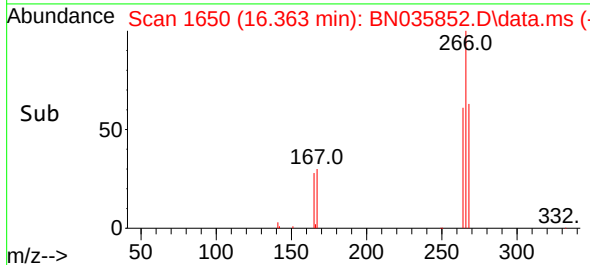
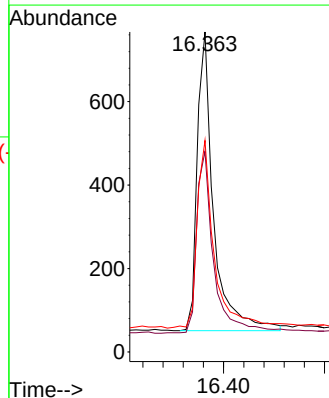
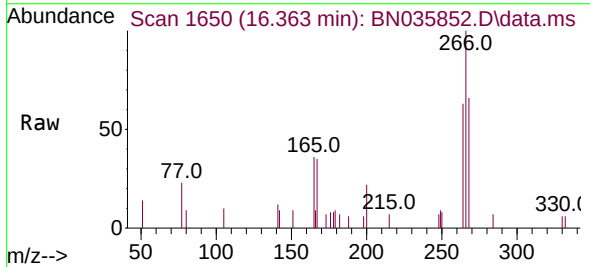
Manual Integrations
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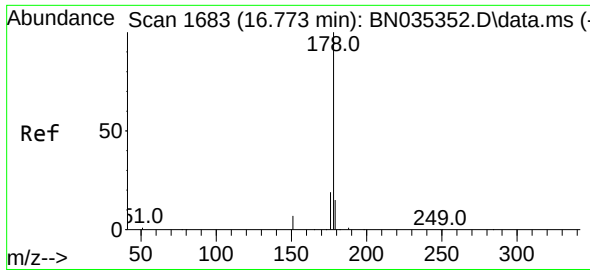
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

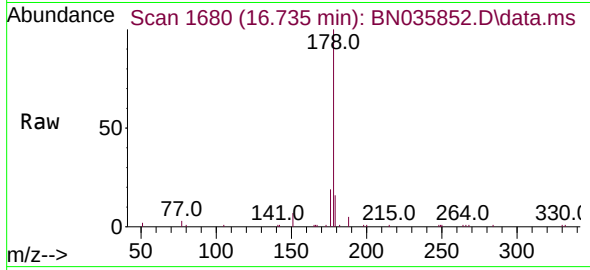
Tgt Ion:266 Resp: 1614
Ion Ratio Lower Upper
266 100
264 63.1 42.3 63.5
268 65.7 43.3 64.9#





#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1683
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

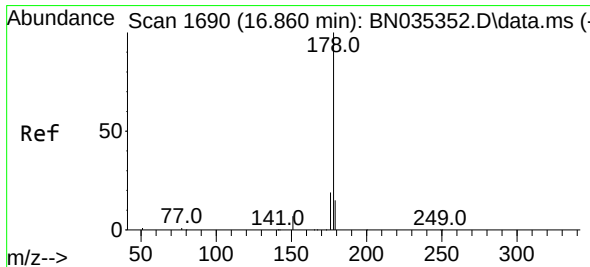
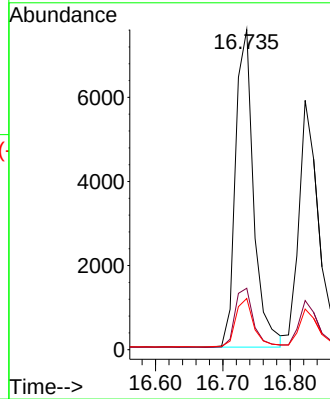
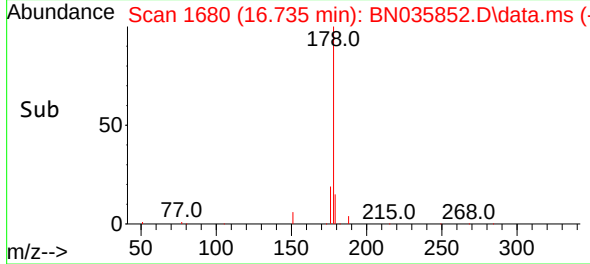
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:178 Resp: 1416
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.3 18.5

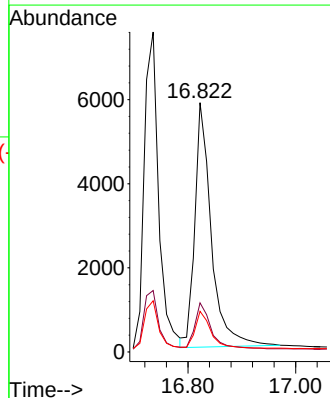
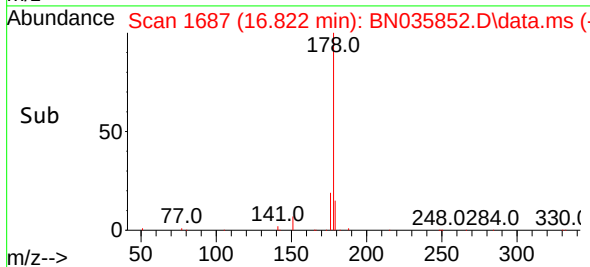
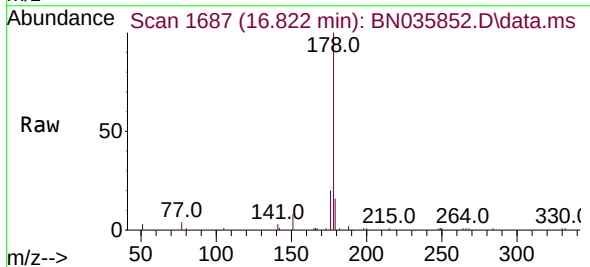
Manual Integrations
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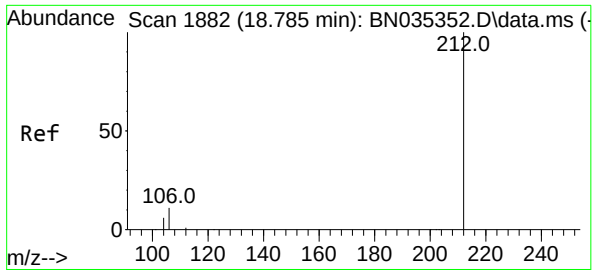
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

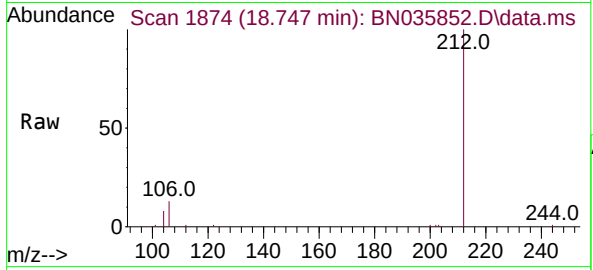
Tgt Ion:178 Resp: 12409
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 14.9 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

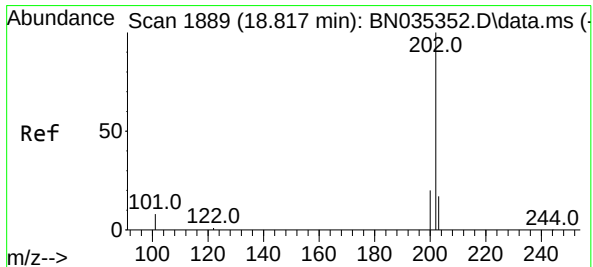
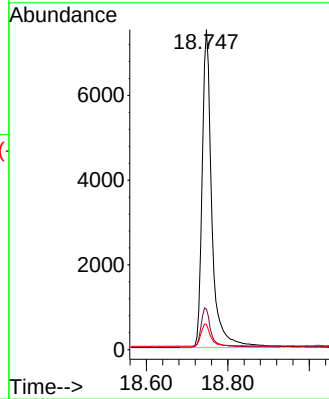
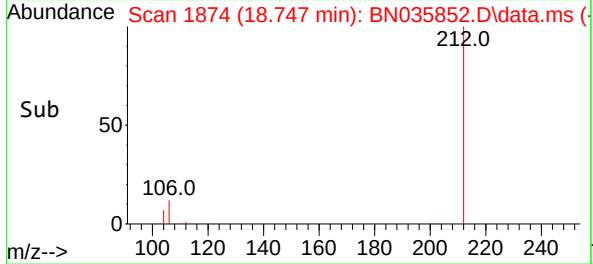
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:212 Resp: 12504
Ion Ratio Lower Upper
212 100
106 12.6 9.2 13.8
104 7.0 5.3 7.9

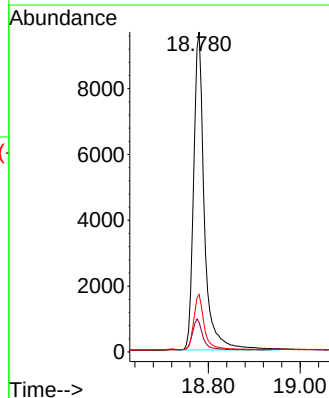
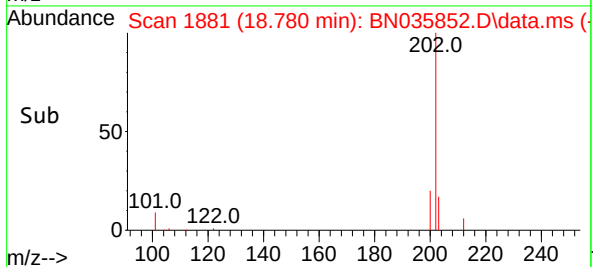
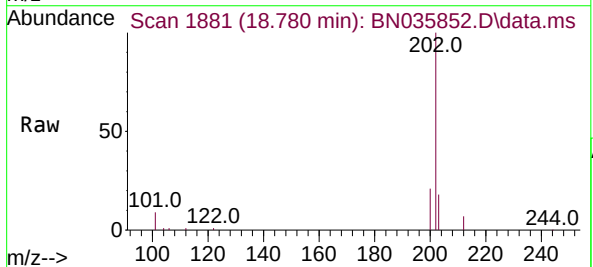
Manual Integrations
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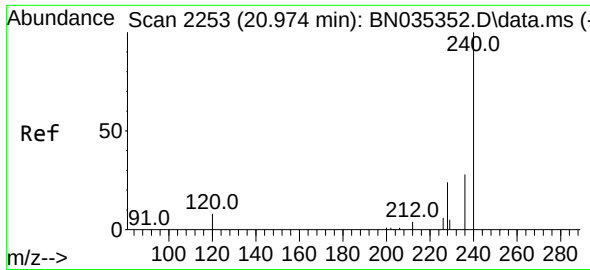
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692
Ion Ratio Lower Upper
202 100
101 9.5 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

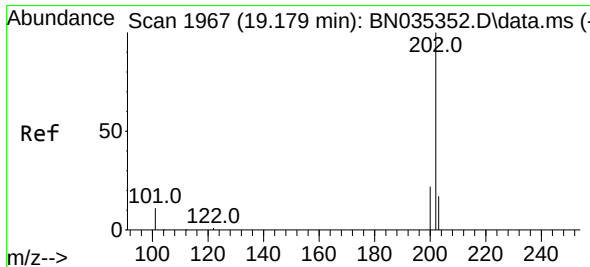
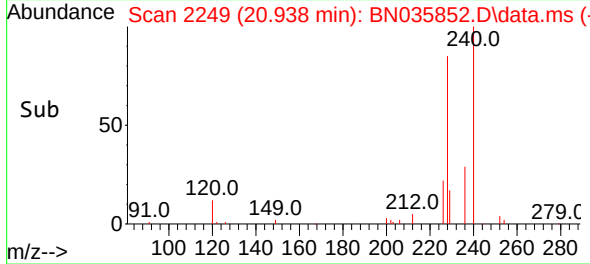
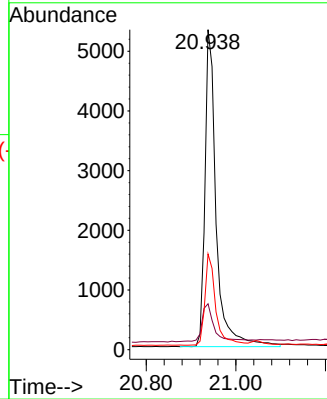
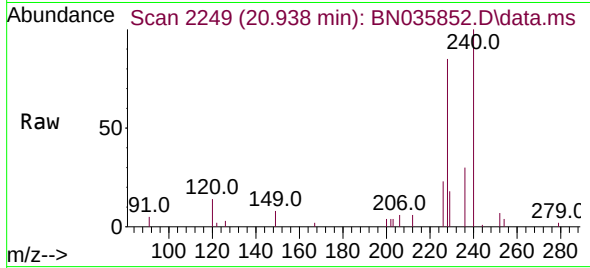
Tgt Ion:	240	Resp:	925
Ion Ratio	Lower	Upper	
240	100		
120	14.3	7.9	11.9
236	29.9	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#30

Pyrene

Concen: 0.466 ng

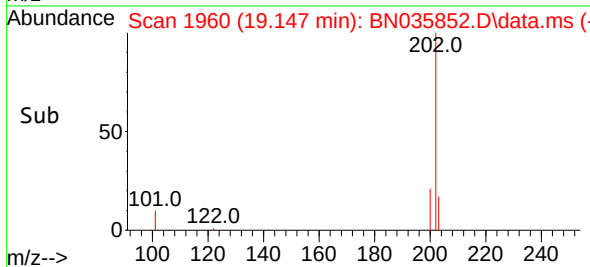
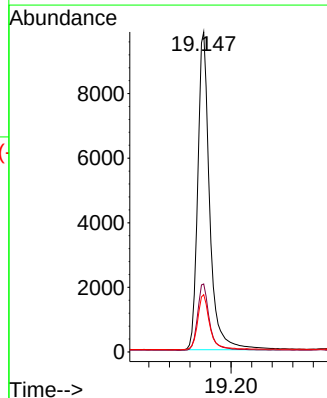
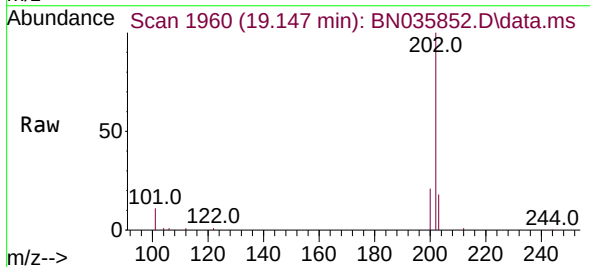
RT: 19.147 min Scan# 1960

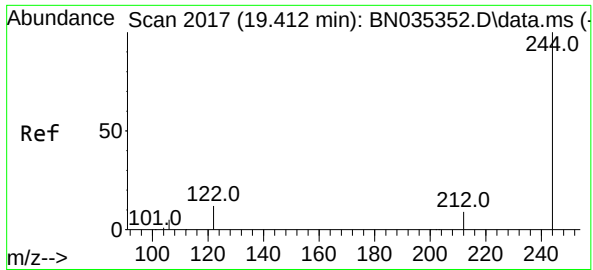
Delta R.T. -0.014 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Tgt Ion:	202	Resp:	15917
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5





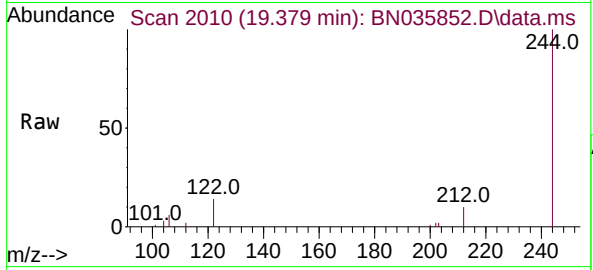
#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

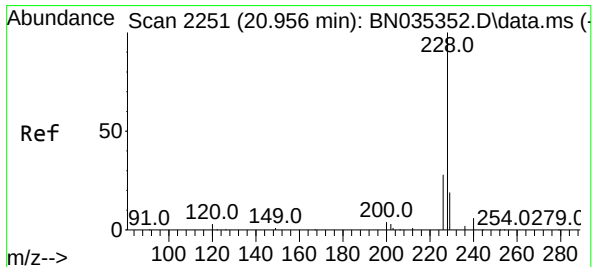
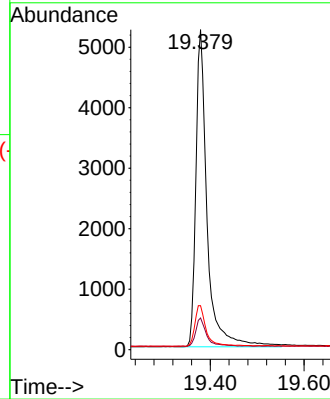
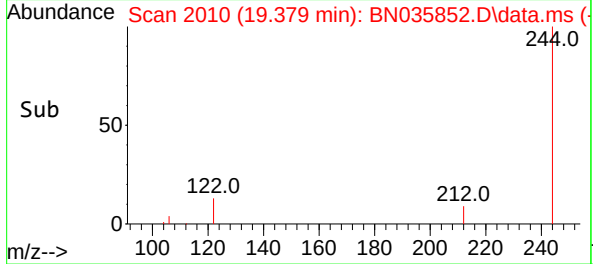


Tgt Ion:244 Resp: 8698
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.7 10.3 15.5

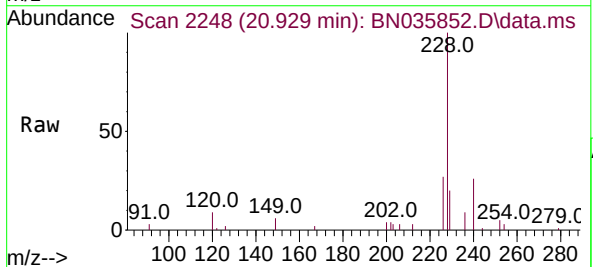
Manual Integrations

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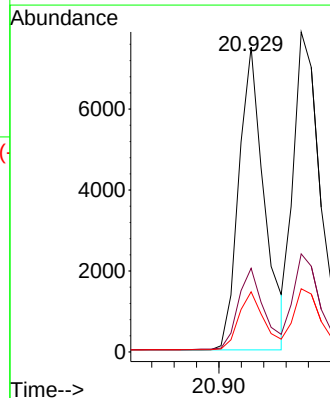
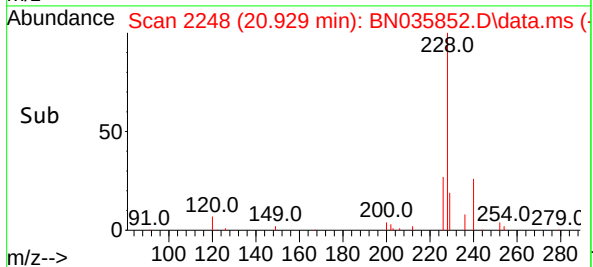
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

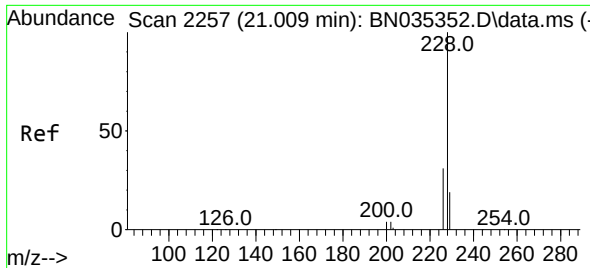


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19



Tgt Ion:228 Resp: 11832
Ion Ratio Lower Upper
228 100
226 27.5 22.5 33.7
229 19.7 15.8 23.8





#33

Chrysene

Concen: 0.426 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

Tgt Ion:228 Resp: 1424

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

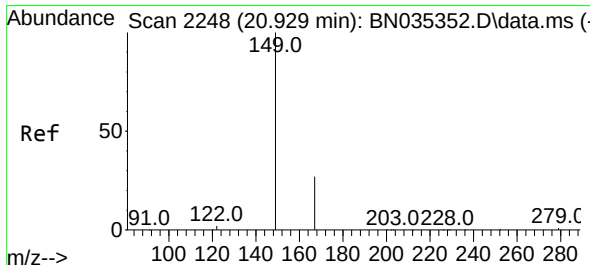
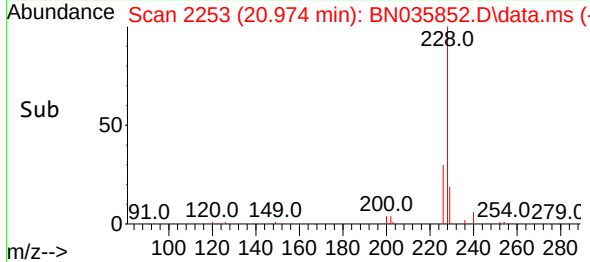
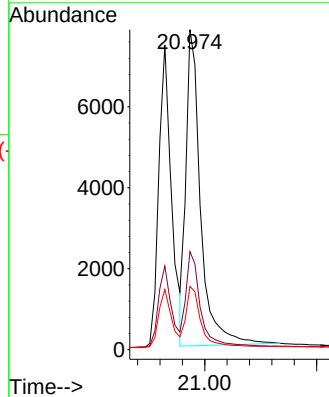
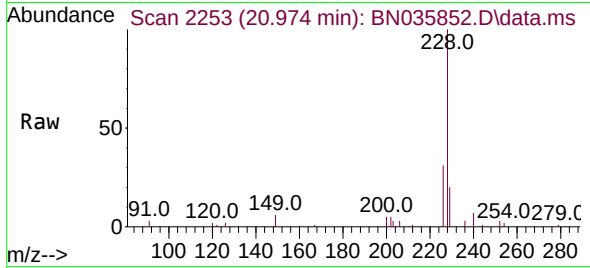
229 19.8 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.415 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

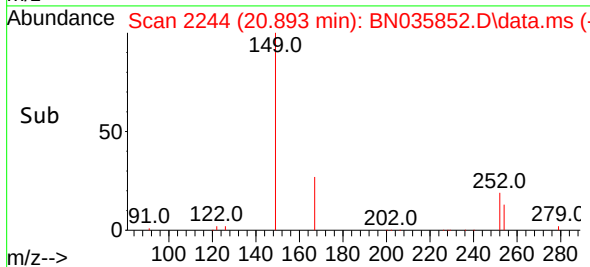
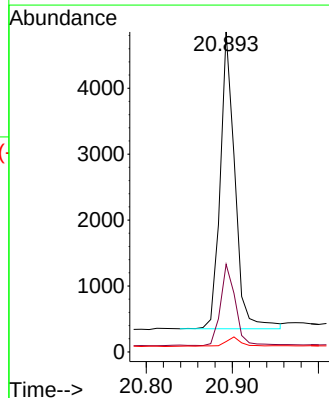
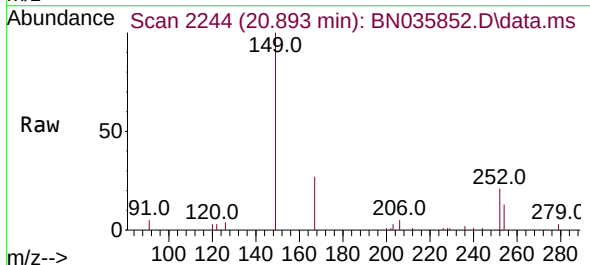
Tgt Ion:149 Resp: 5313

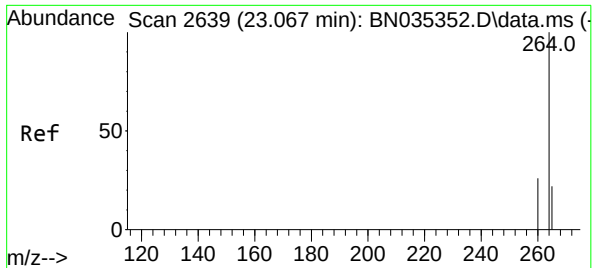
Ion Ratio Lower Upper

149 100

167 27.4 22.2 33.4

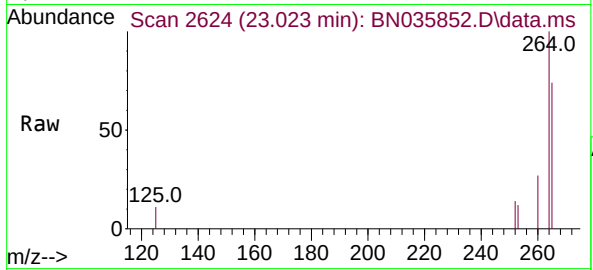
279 3.3 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

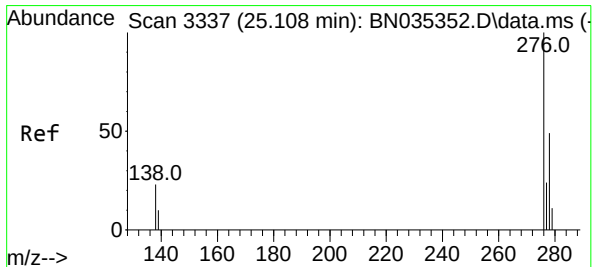
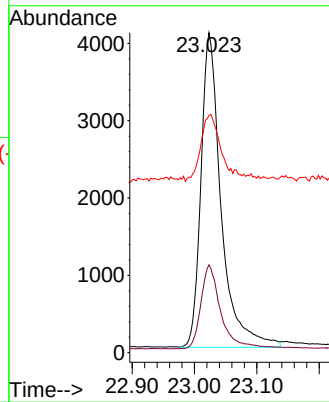
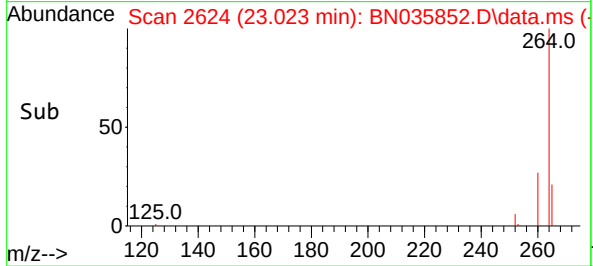
Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:264 Resp: 9148
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 74.2 40.2 60.4

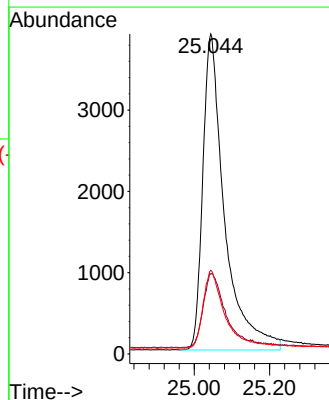
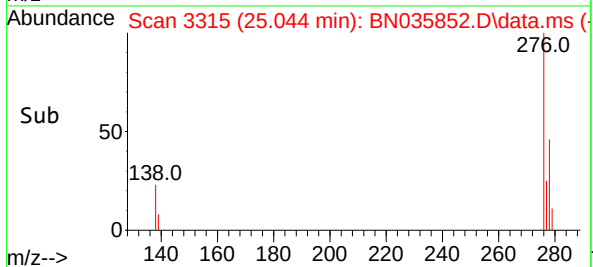
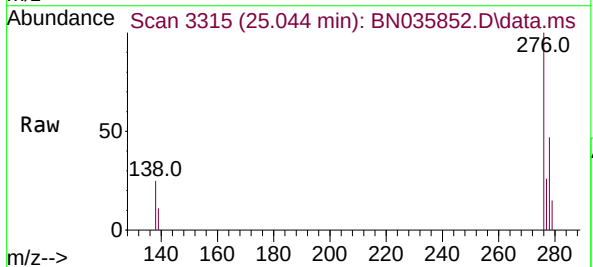
Manual Integrations
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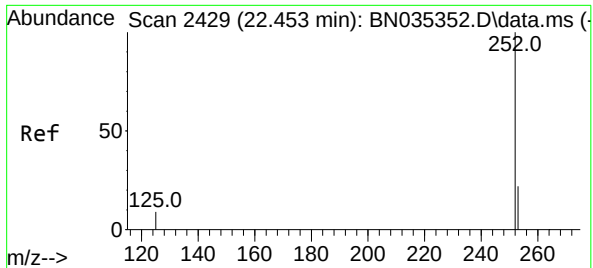
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551
Ion Ratio Lower Upper
276 100
138 23.9 19.4 29.0
277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.581 ng

RT: 22.415 min Scan# 2415

Delta R.T. -0.015 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

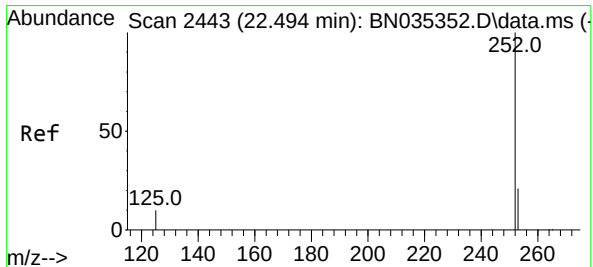
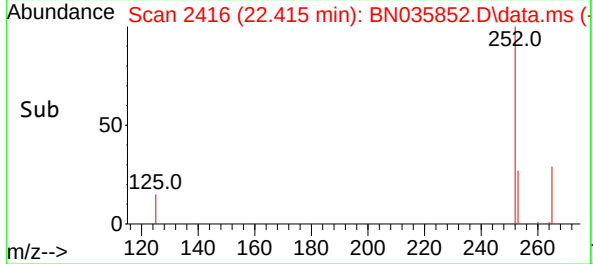
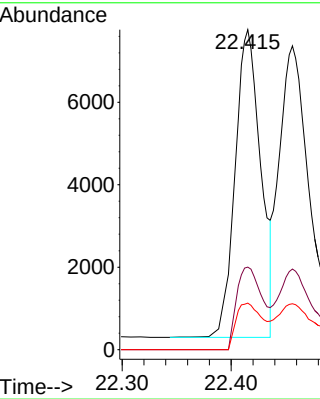
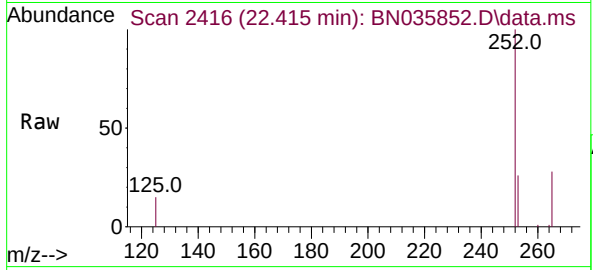
Tgt Ion:	252	Resp:	19434
Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	14.5	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#38

Benzo(k)fluoranthene

Concen: 0.439 ng

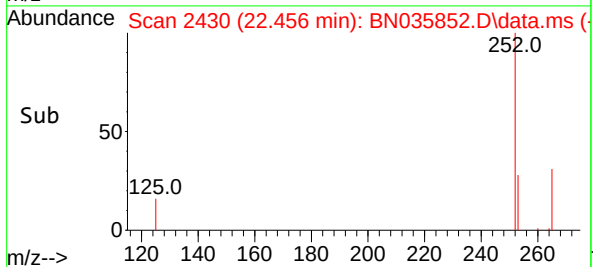
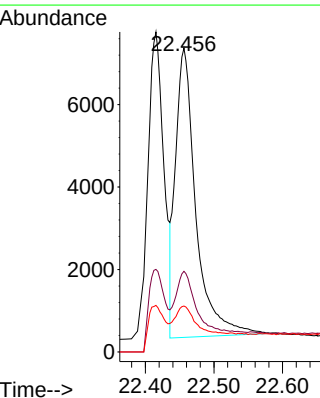
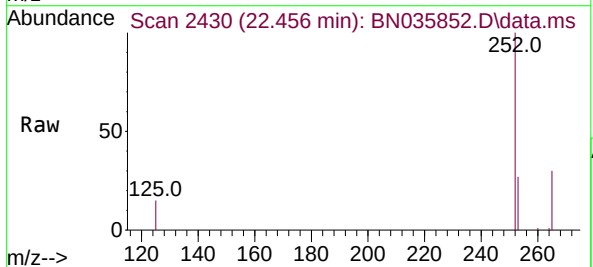
RT: 22.456 min Scan# 2430

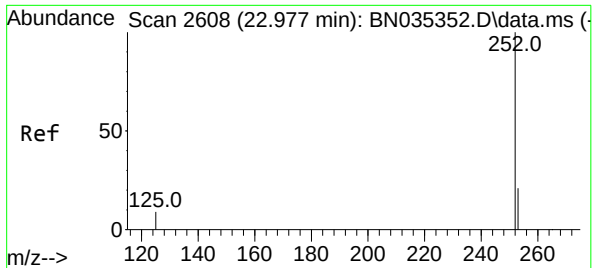
Delta R.T. -0.015 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Tgt Ion:	252	Resp:	14469
Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.1	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.422 ng

RT: 22.936 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

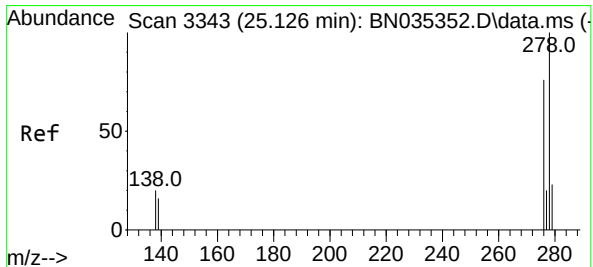
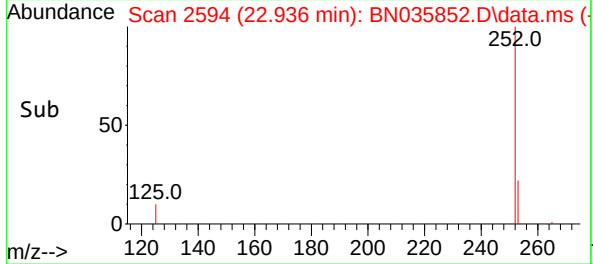
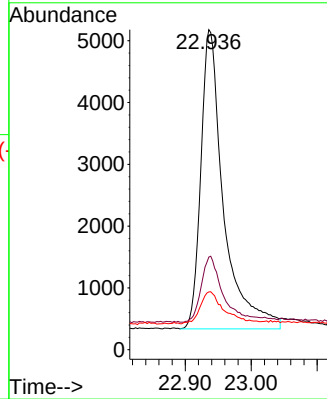
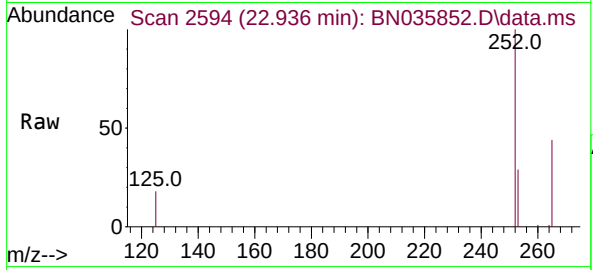
Tgt Ion:	252	Resp:	11624
Ion Ratio	Lower	Upper	
252	100		
253	29.0	20.2	30.4
125	18.0	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

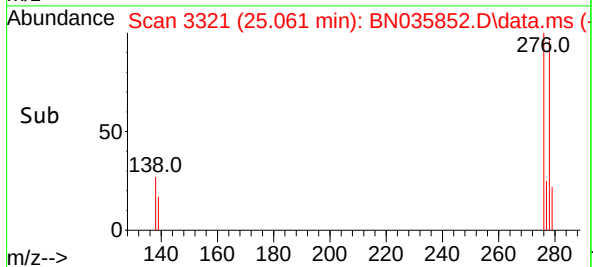
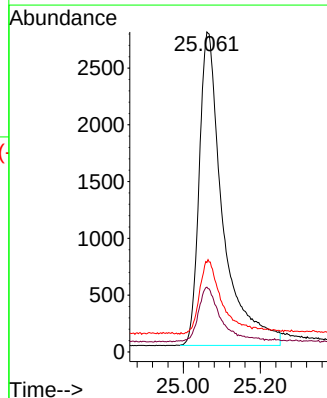
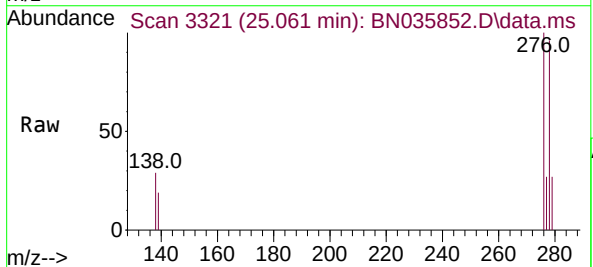
RT: 25.061 min Scan# 3321

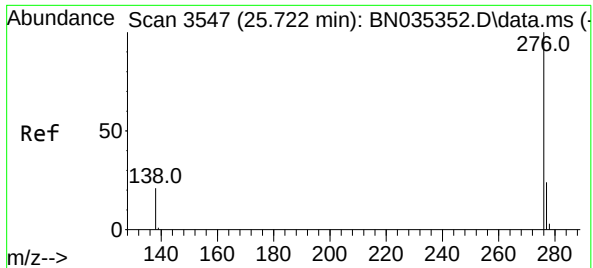
Delta R.T. -0.021 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Tgt Ion:	278	Resp:	11696
Ion Ratio	Lower	Upper	
278	100		
139	20.2	14.2	21.4
279	28.0	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.431 ng

RT: 25.649 min Scan# 3

Delta R.T. -0.029 min

Lab File: BN035852.D

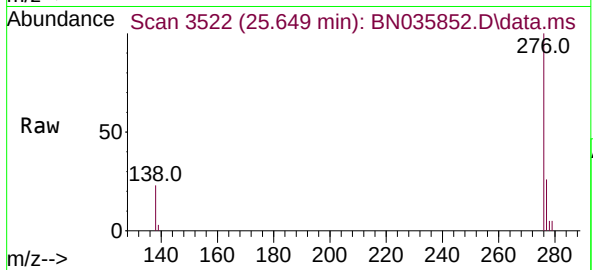
Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS



Tgt Ion:276 Resp: 12710

Ion Ratio Lower Upper

276 100

277 25.6 19.9 29.9

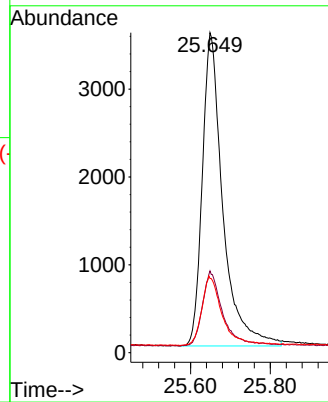
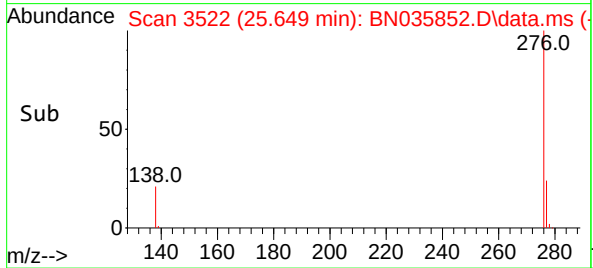
138 23.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218MS	SDG No.:	P5376
Lab Sample ID:	P5376-08MS	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
BN035821.D	1	12/23/24 13:29	12/24/24 14:55	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		107%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	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	3130	7.257				
1146-65-2	Naphthalene-d8	7400	9.998				
15067-26-2	Acenaphthene-d10	4430	13.914				
1517-22-2	Phenanthrene-d10	9040	16.686				
1719-03-5	Chrysene-d12	8800	20.947				
1520-96-3	Perylene-d12	9480	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\BN122324\
 Data File : BN035821.D
 Acq On : 24 Dec 2024 14:55
 Operator : RC/JU
 Sample : P5376-08MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MS

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 23:18:51 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	3131	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7403	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4434	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9040	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8798	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9479	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	943	0.120	ng	0.00
5) Phenol-d6	6.477	99	545	0.058	ng	-0.01
8) Nitrobenzene-d5	8.397	82	1912m	0.423	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	4950	0.427	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	691	0.220	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6280	0.375	ng	-0.02
27) Fluoranthene-d10	18.747	212	10896	0.425	ng	-0.01
31) Terphenyl-d14	19.379	244	8459	0.487	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	909	0.304	ng	# 85
3) n-Nitrosodimethylamine	3.270	42	393	0.158	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	2329	0.294	ng	98
9) Naphthalene	10.052	128	7736	0.396	ng	99
10) Hexachlorobutadiene	10.340	225	1471	0.327	ng	# 100
12) 2-Methylnaphthalene	11.681	142	5119	0.366	ng	99
16) Acenaphthylene	13.625	152	8059	0.433	ng	99
17) Acenaphthene	13.978	154	5206	0.421	ng	99
18) Fluorene	14.983	166	6975	0.394	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	266	0.299	ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	1959	0.370	ng	# 75
22) Hexachlorobenzene	16.003	284	2633	0.424	ng	98
23) Atrazine	16.189	200	1523	0.405	ng	96
24) Pentachlorophenol	16.363	266	1863	0.690	ng	# 86
25) Phenanthrene	16.735	178	12002	0.483	ng	100
26) Anthracene	16.822	178	10344	0.461	ng	99
28) Fluoranthene	18.780	202	14906	0.445	ng	99
30) Pyrene	19.147	202	15976	0.492	ng	99
32) Benzo(a)anthracene	20.929	228	13869	0.451	ng	99
33) Chrysene	20.983	228	16049	0.506	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6067	0.499	ng	98
36) Indeno(1,2,3-cd)pyrene	25.052	276	15853	0.428	ng	98
37) Benzo(b)fluoranthene	22.418	252	20643	0.595	ng	# 94
38) Benzo(k)fluoranthene	22.459	252	16743	0.491	ng	# 94
39) Benzo(a)pyrene	22.939	252	13748	0.481	ng	# 89
40) Dibenzo(a,h)anthracene	25.067	278	11568	0.396	ng	94
41) Benzo(g,h,i)perylene	25.658	276	13235	0.433	ng	98

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

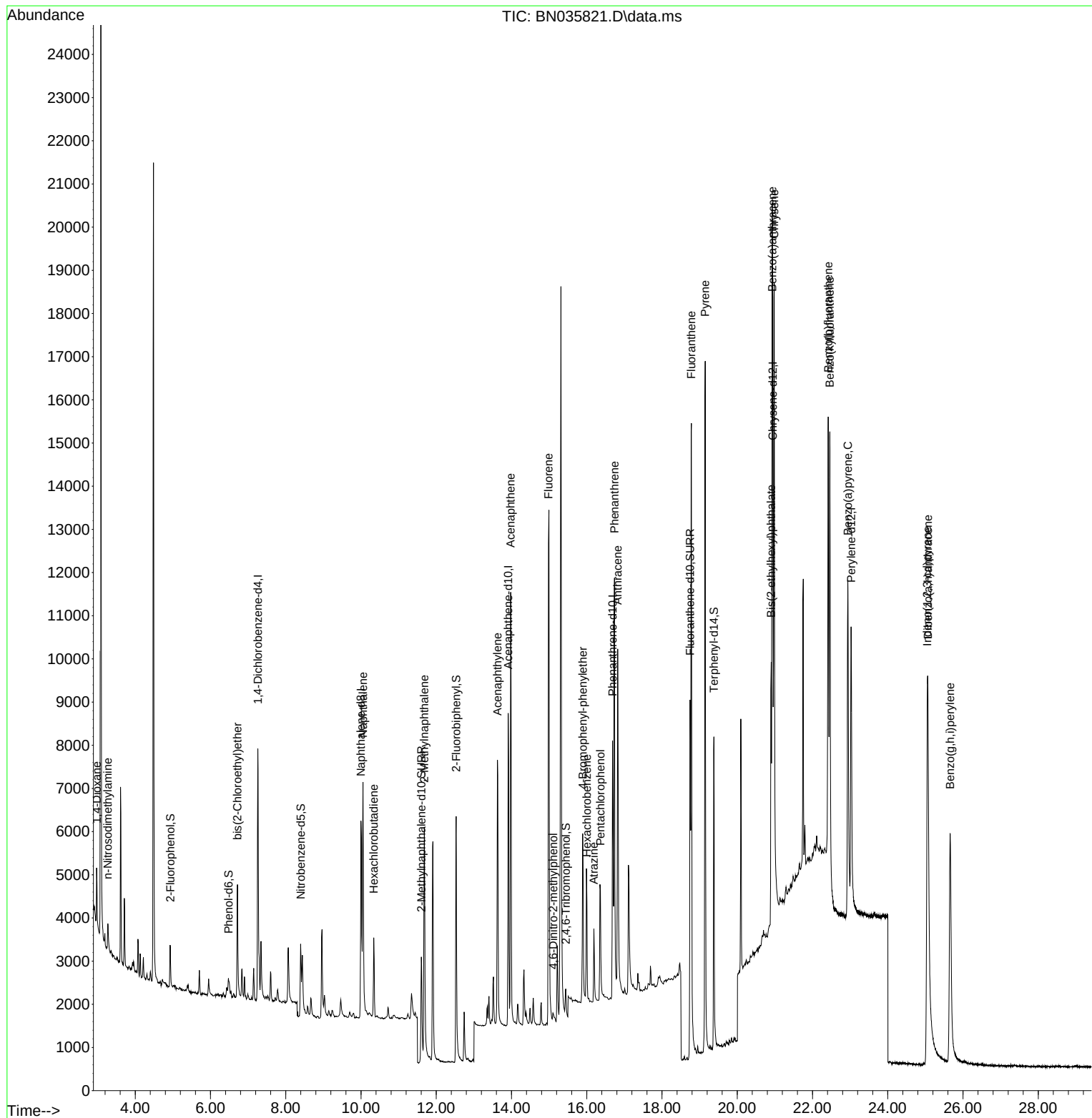
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

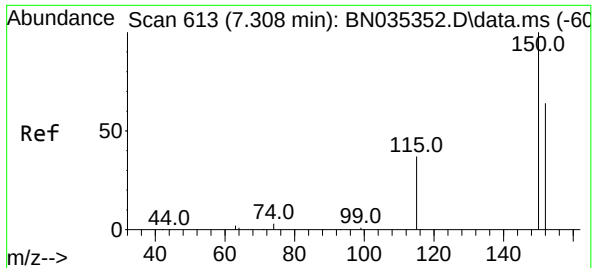
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

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

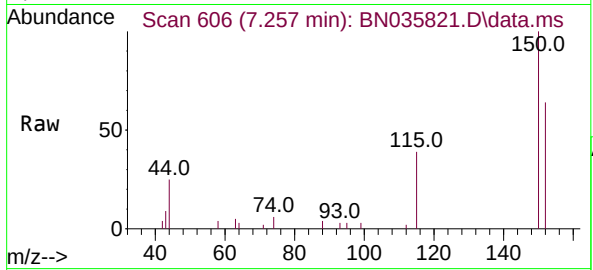
Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

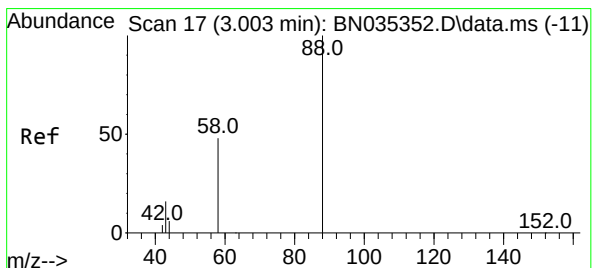
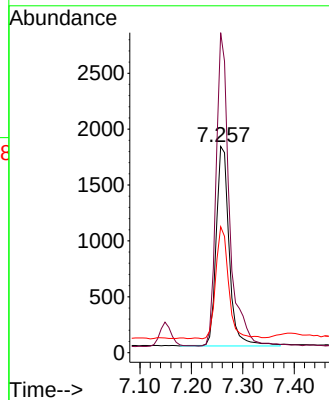
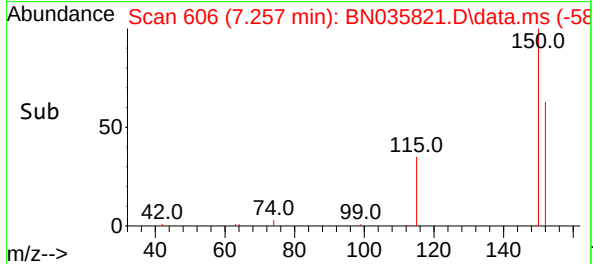
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion: 152 Resp: 313
Ion Ratio Lower Upper
152 100
150 155.2 124.0 186.0
115 61.0 49.6 74.4

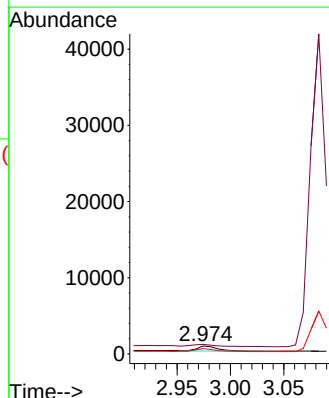
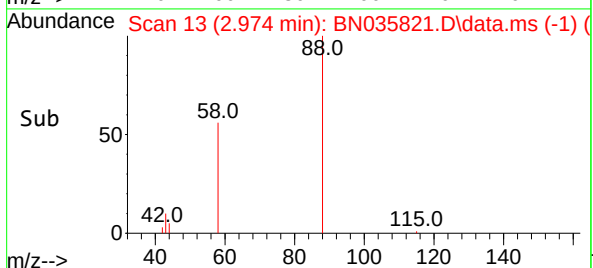
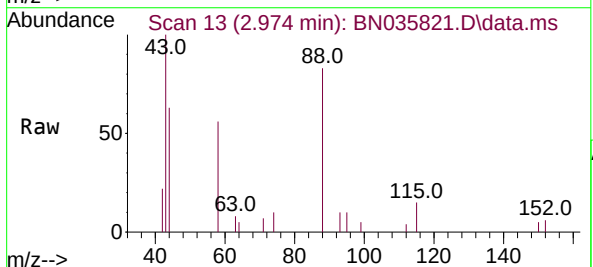
Manual Integrations
APPROVED

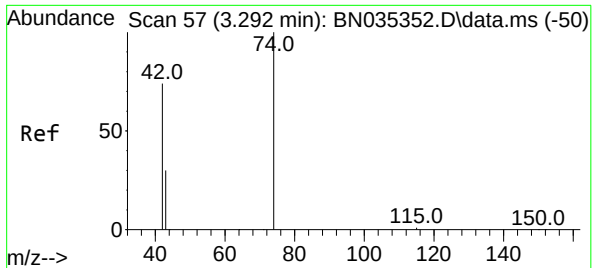
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

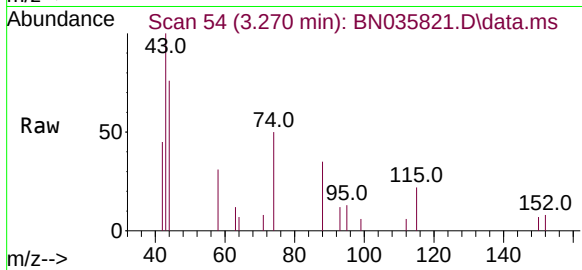
Tgt Ion: 88 Resp: 909
Ion Ratio Lower Upper
88 100
43 0.0 17.2 25.8#
58 58.4 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

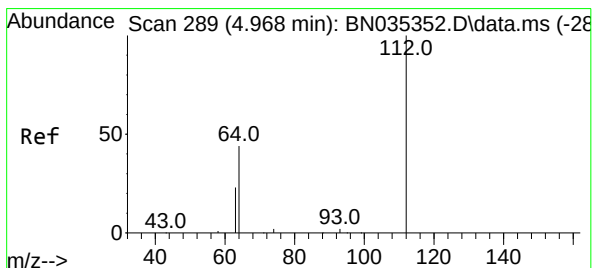
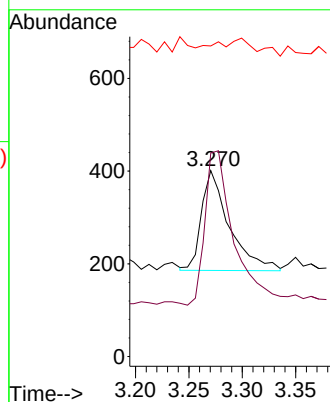
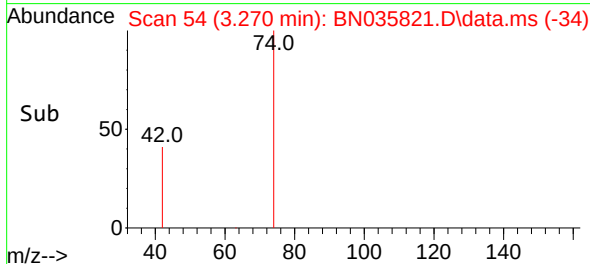
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion: 42 Resp: 39
Ion Ratio Lower Upper
42 100
74 172.0 124.9 187.3
44 0.0 2.2 3.4

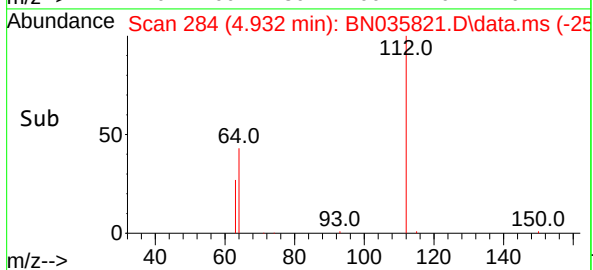
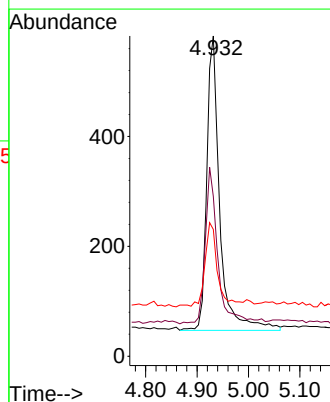
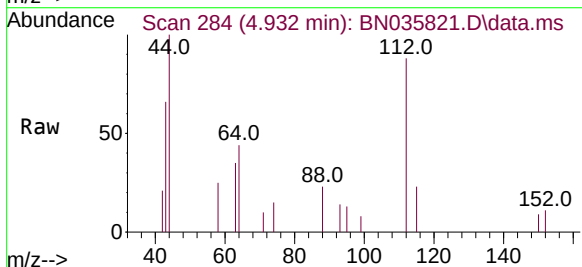
Manual Integrations
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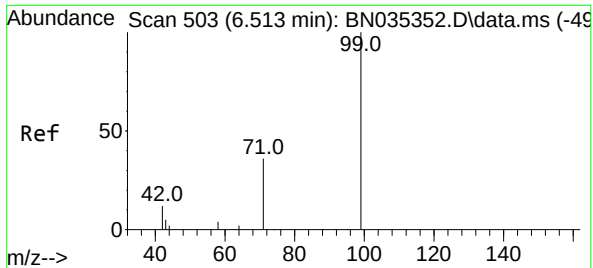
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

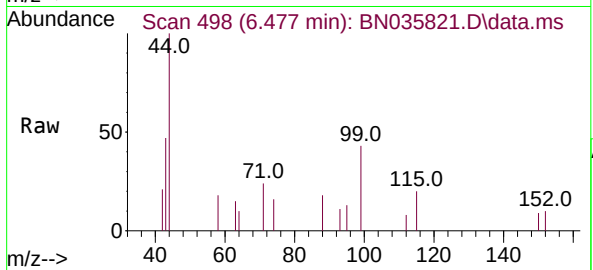
Tgt Ion:112 Resp: 943
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 28.2 21.0 31.6





#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

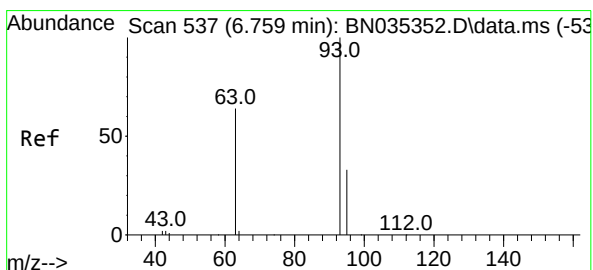
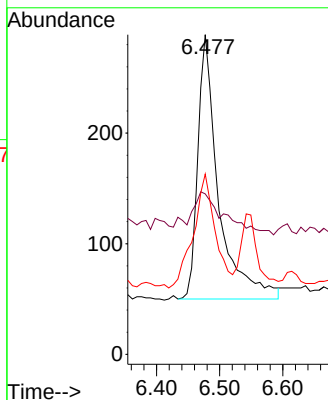
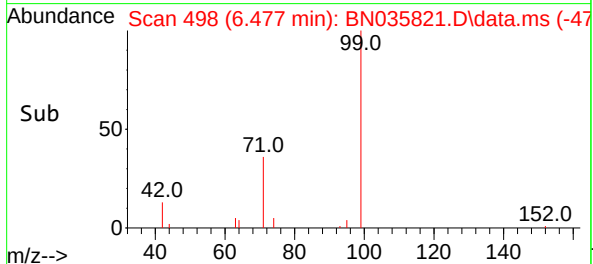
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion: 99 Resp: 549
Ion Ratio Lower Upper
99 100
42 26.8 11.4 17.2
71 45.9 29.3 43.9

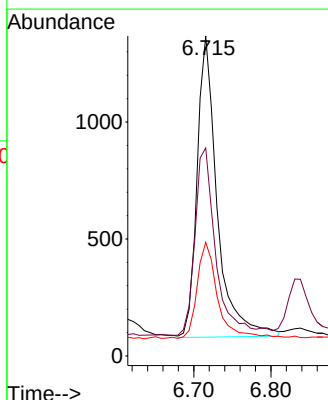
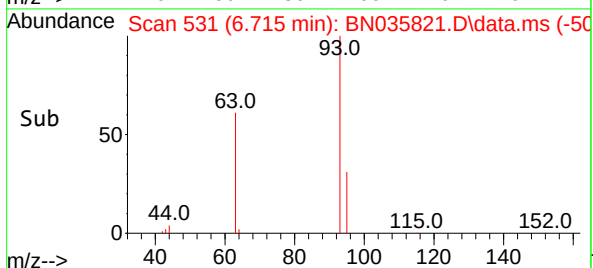
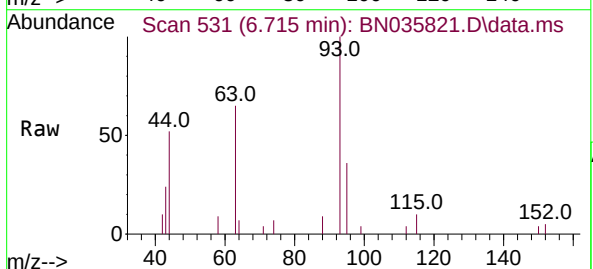
Manual Integrations
APPROVED

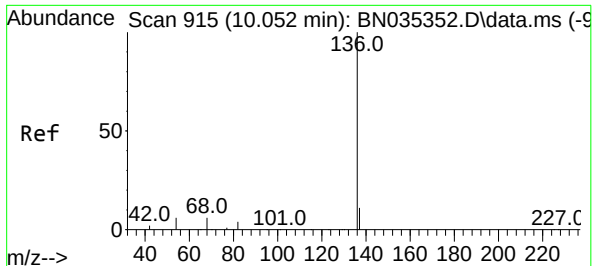
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329
Ion Ratio Lower Upper
93 100
63 65.2 50.4 75.6
95 32.6 25.7 38.5





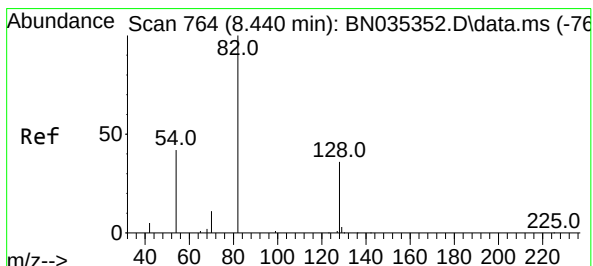
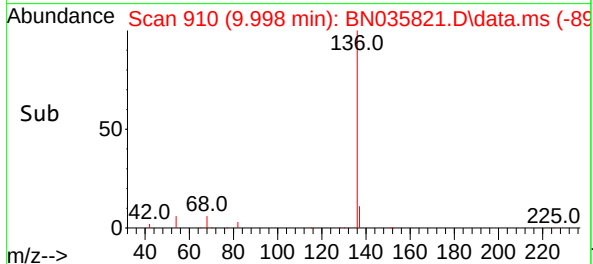
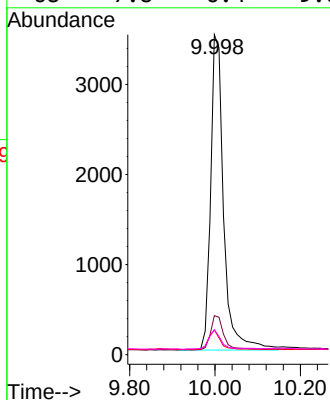
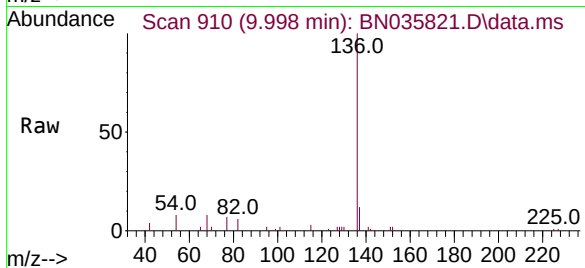
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:136 Resp: 740
Ion Ratio Lower Upper
136 100
137 12.2 10.2 15.2
54 7.7 6.1 9.1
68 7.8 6.4 9.6

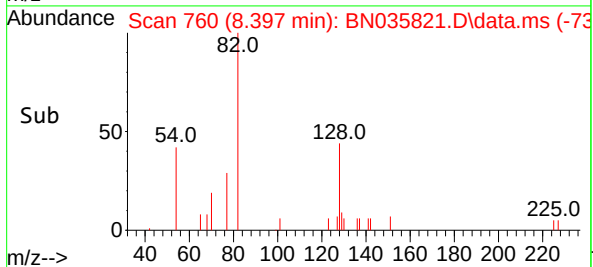
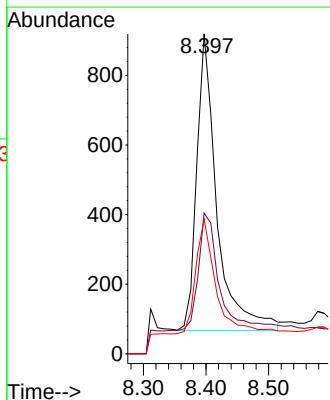
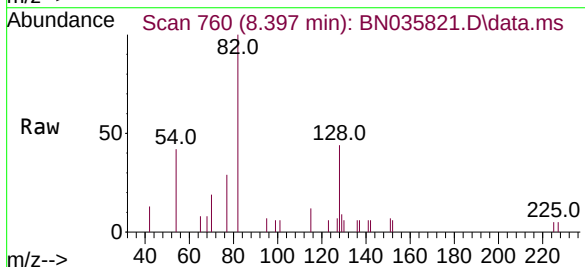
Manual Integrations
APPROVED

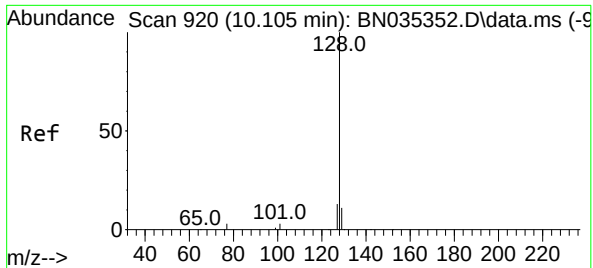
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.423 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 1912
Ion Ratio Lower Upper
82 100
128 44.0 33.4 50.0
54 42.1 36.7 55.1





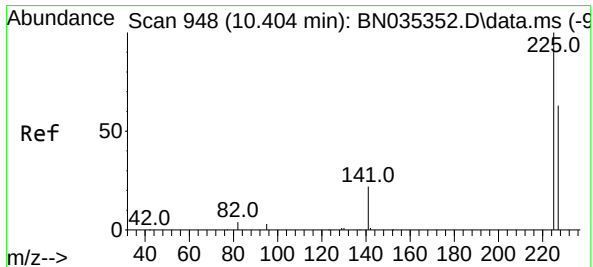
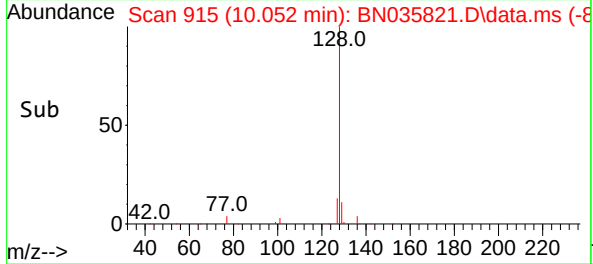
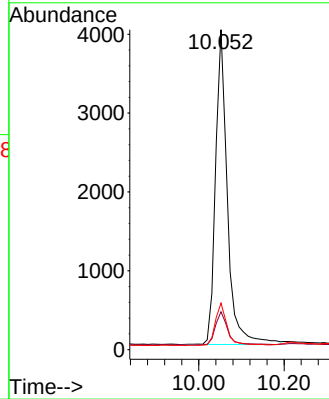
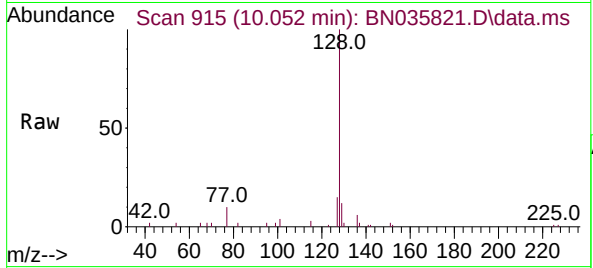
#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:128 Resp: 7730
Ion Ratio Lower Upper
128 100
129 11.8 9.8 14.6
127 14.5 11.4 17.2

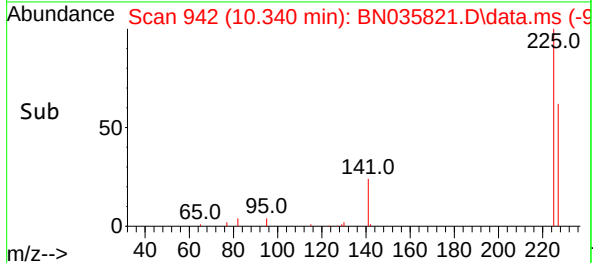
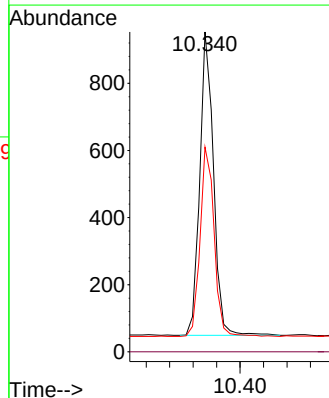
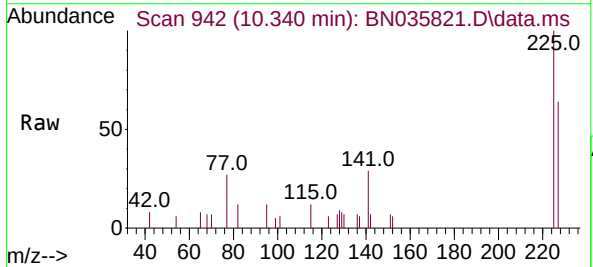
Manual Integrations
APPROVED

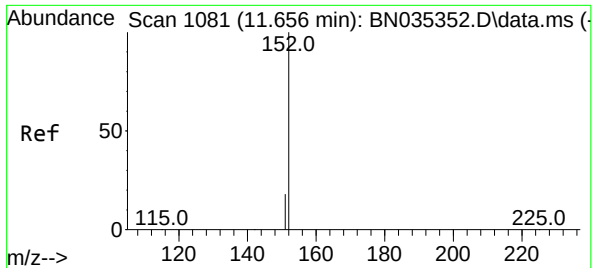
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

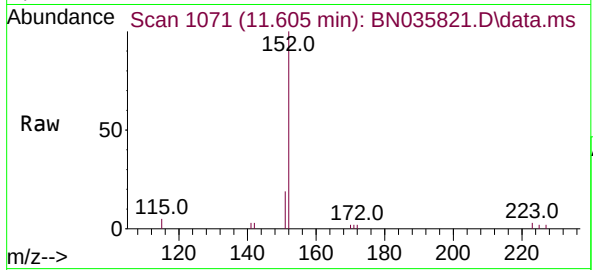
Tgt Ion:225 Resp: 1471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

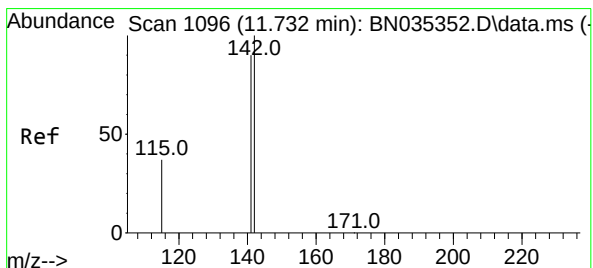
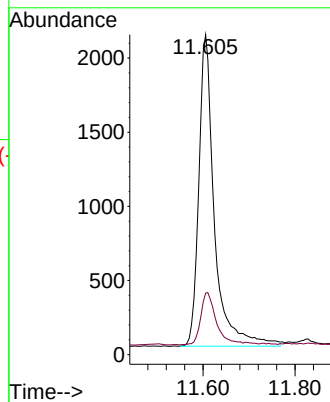
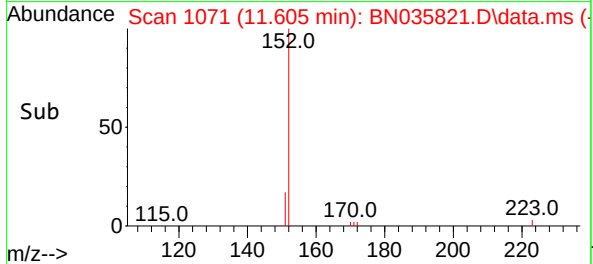
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:152 Resp: 4950
Ion Ratio Lower Upper
152 100
151 16.7 16.6 25.0

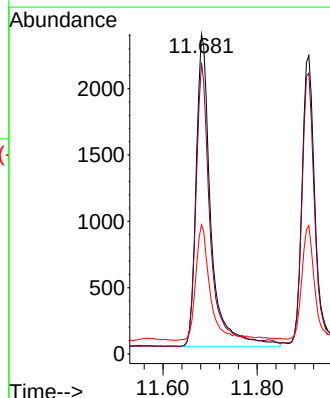
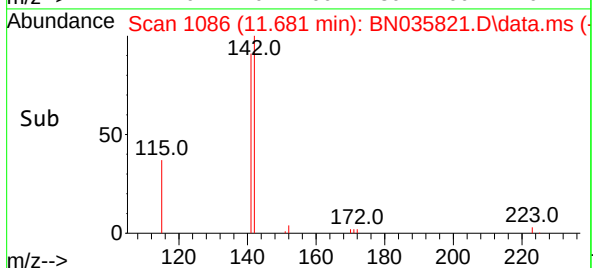
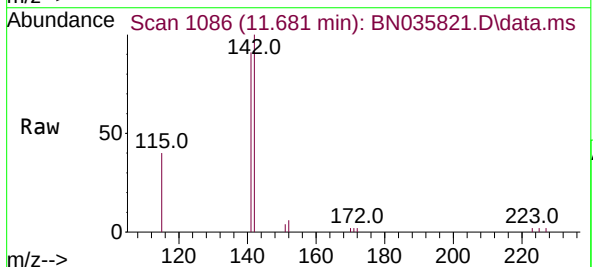
Manual Integrations
APPROVED

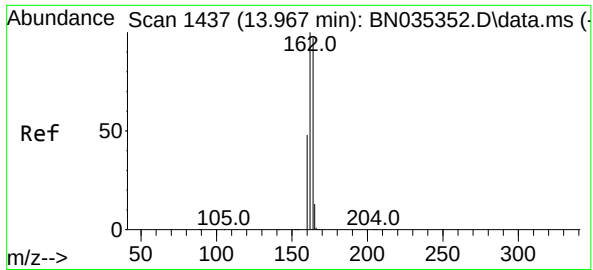
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

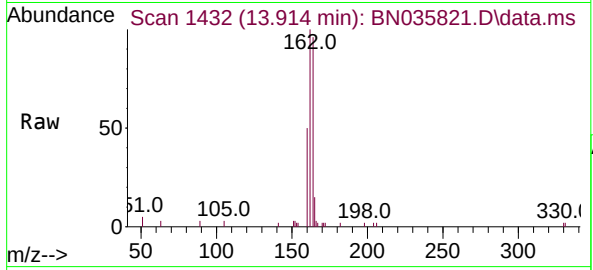
Tgt Ion:142 Resp: 5119
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 40.3 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

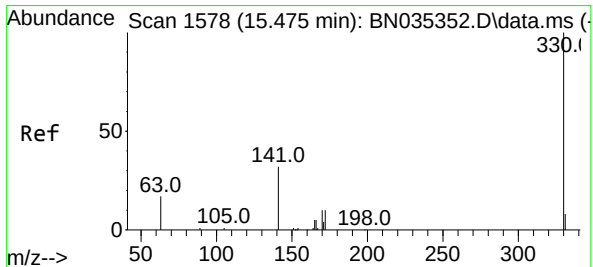
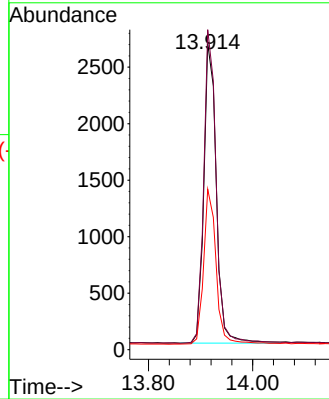
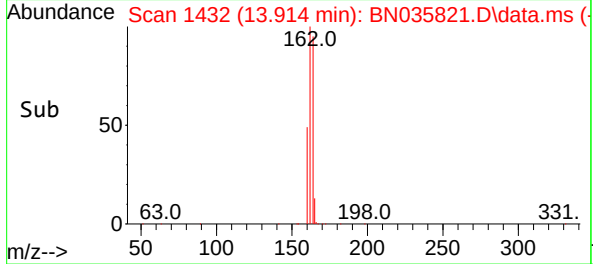
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:164 Resp: 4434
Ion Ratio Lower Upper
164 100
162 104.6 82.2 123.2
160 52.4 40.1 60.1

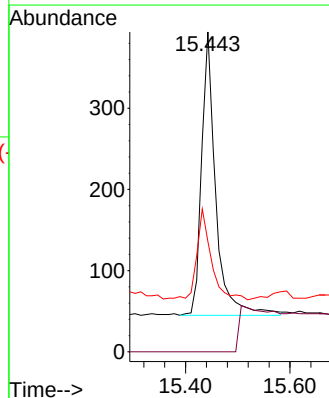
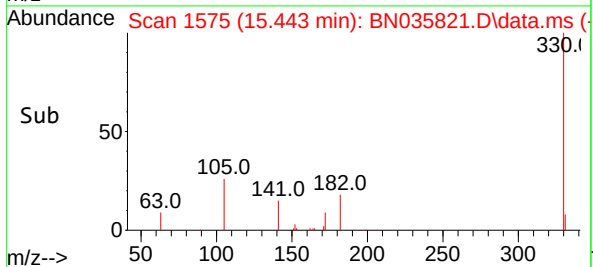
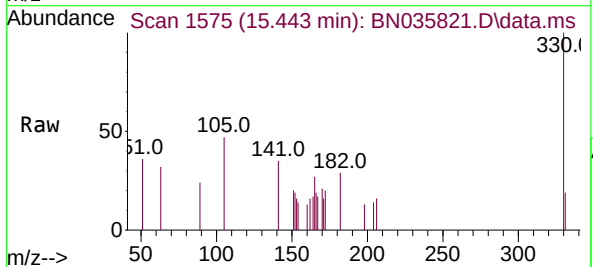
Manual Integrations
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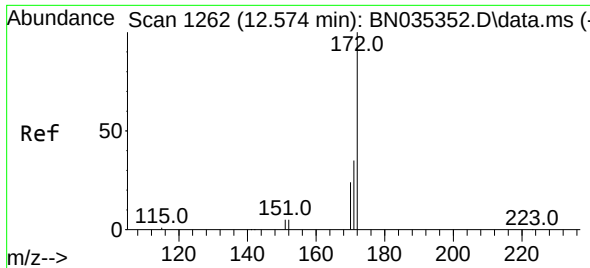
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

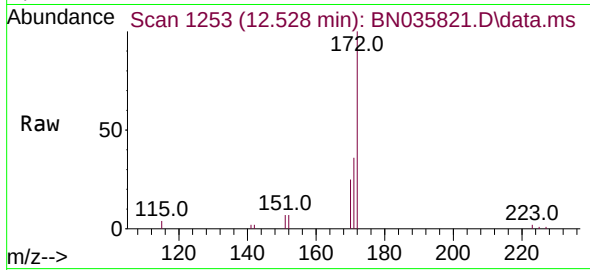
Tgt Ion:330 Resp: 691
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.1 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

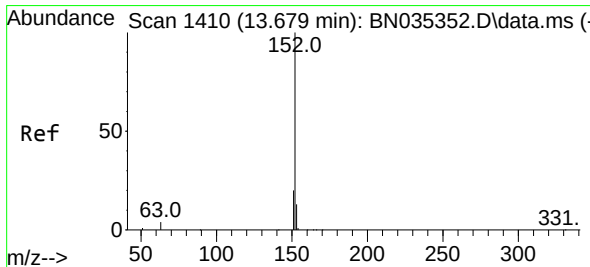
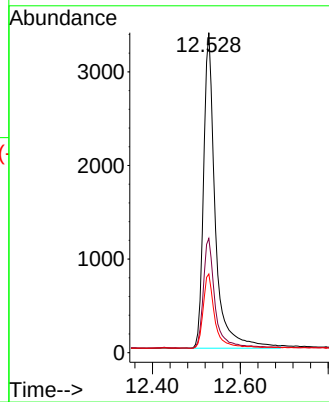
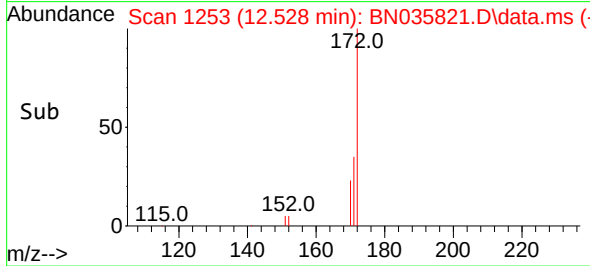
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:172 Resp: 6280
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 24.6 19.8 29.8

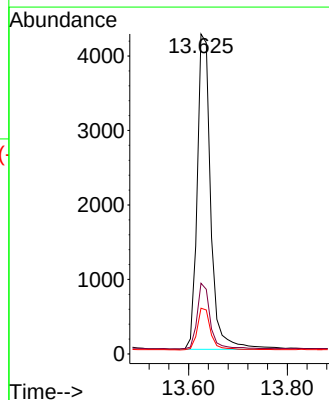
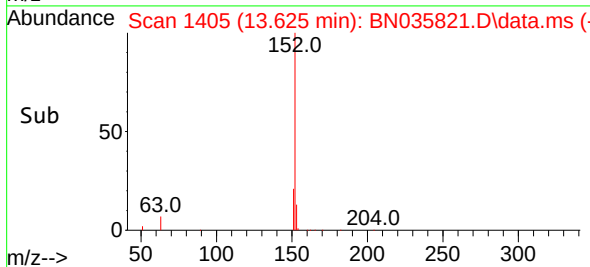
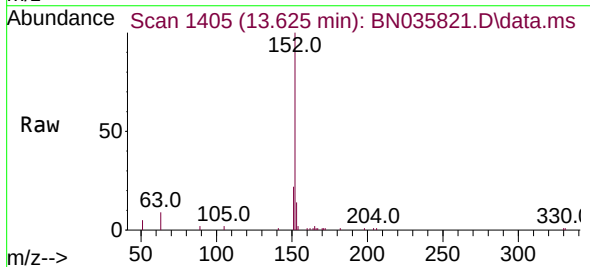
Manual Integrations
APPROVED

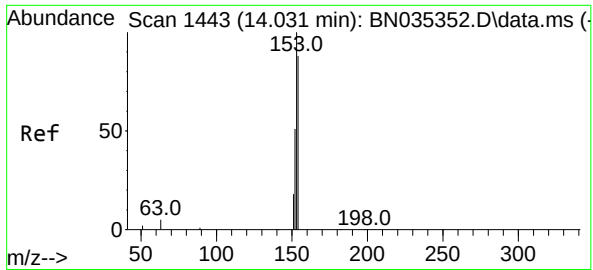
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

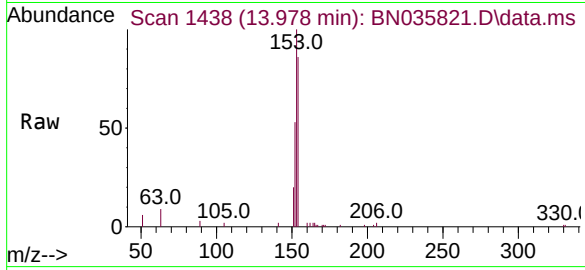
Tgt Ion:152 Resp: 8059
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

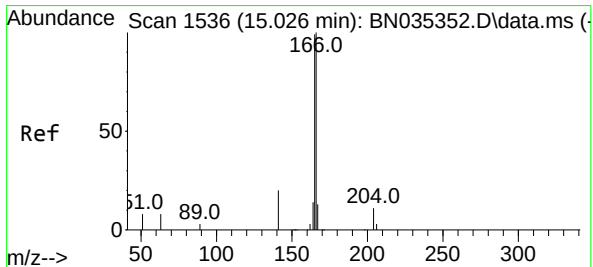
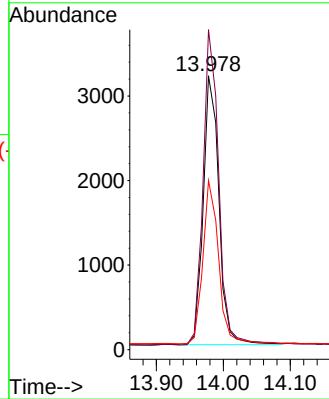
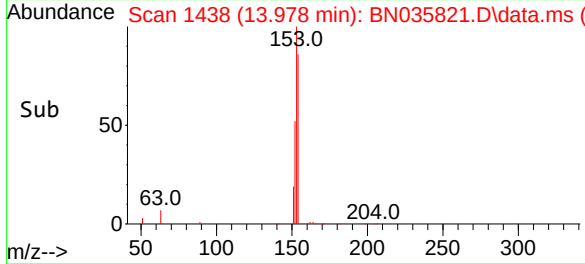
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:154 Resp: 5200
Ion Ratio Lower Upper
154 100
153 116.9 92.6 139.0
152 60.7 49.0 73.6

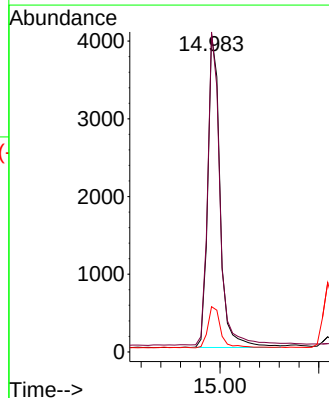
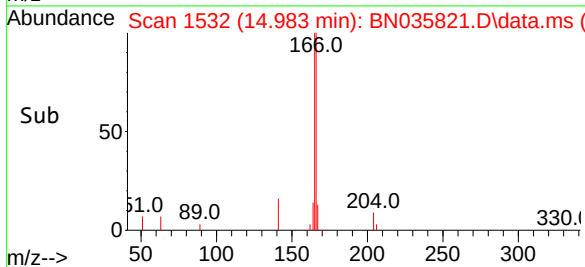
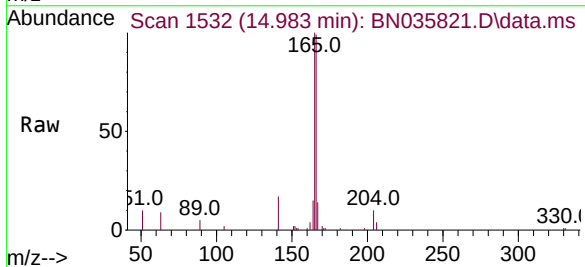
Manual Integrations
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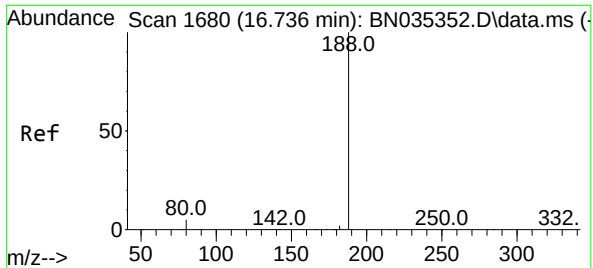
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975
Ion Ratio Lower Upper
166 100
165 98.8 79.7 119.5
167 14.0 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: BN035821.D

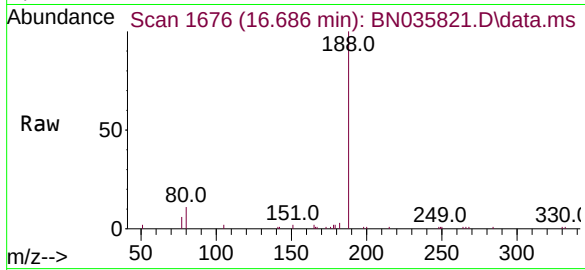
Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS



Tgt Ion:188 Resp: 9040

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

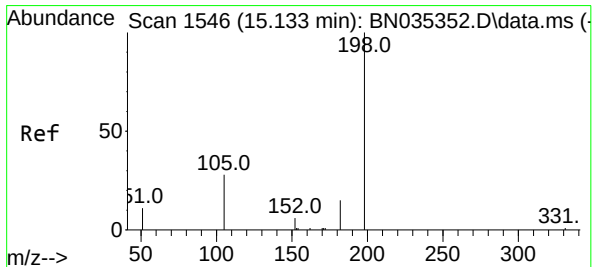
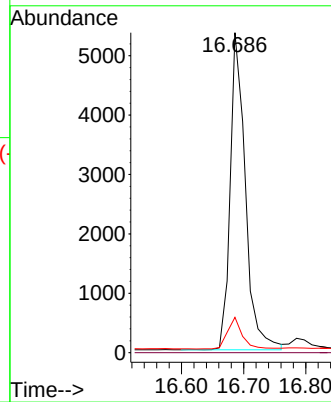
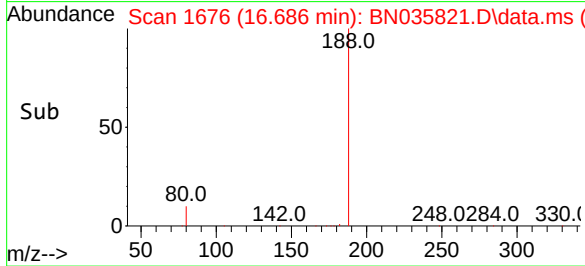
80 11.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.299 ng

RT: 15.111 min Scan# 1544

Delta R.T. -0.011 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

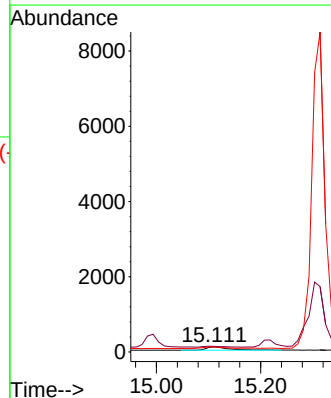
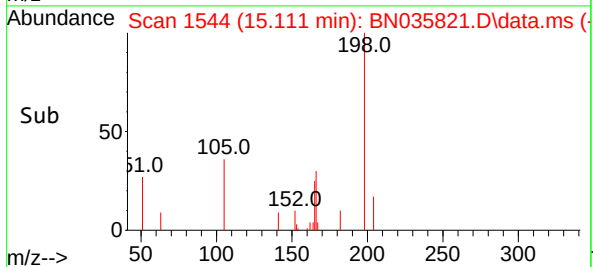
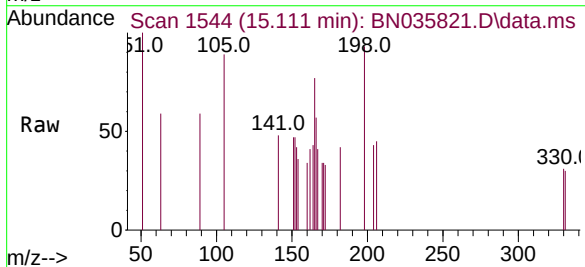
Tgt Ion:198 Resp: 266

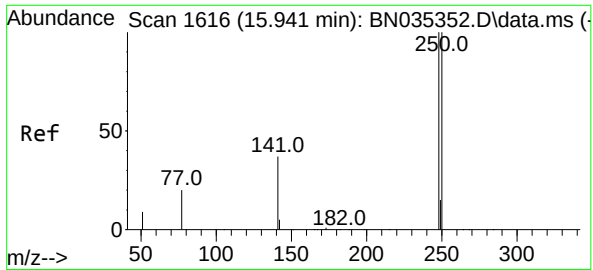
Ion Ratio Lower Upper

198 100

51 108.0 46.5 69.7#

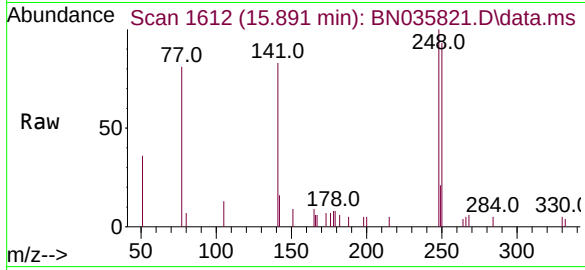
105 96.4 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

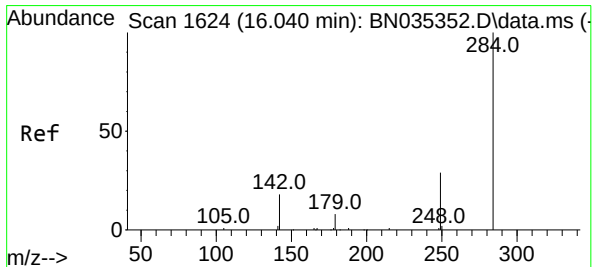
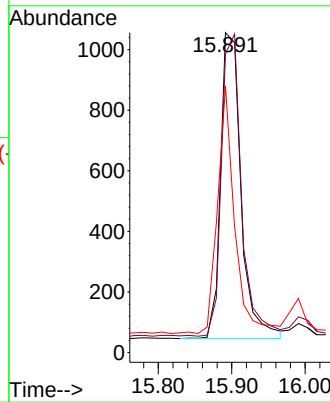
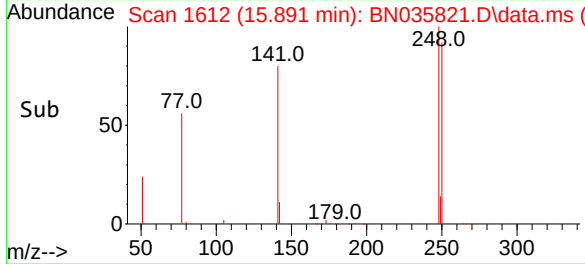
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:248 Resp: 1959
Ion Ratio Lower Upper
248 100
250 93.4 80.6 120.8
141 83.3 31.5 47.3

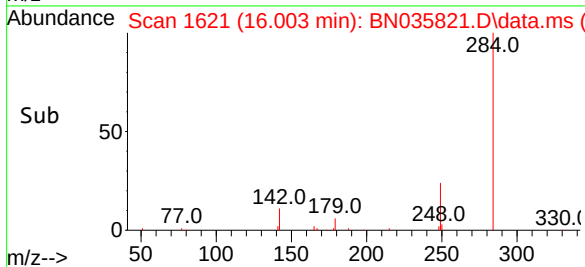
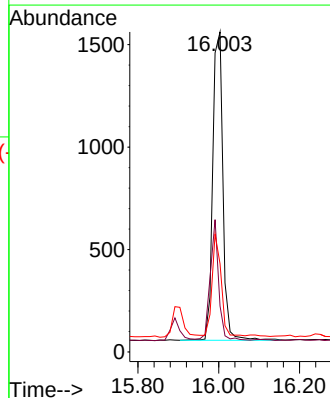
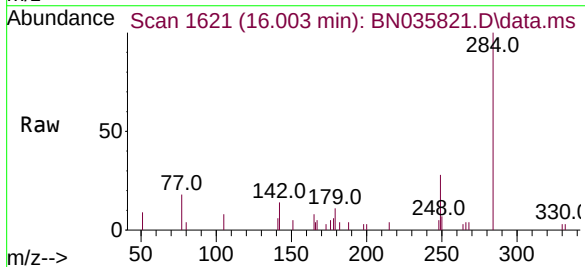
Manual Integrations
APPROVED

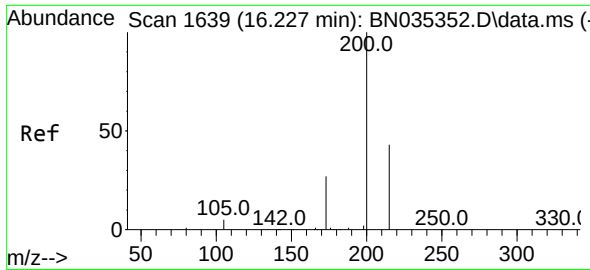
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633
Ion Ratio Lower Upper
284 100
142 32.3 26.7 40.1
249 29.1 24.6 36.8





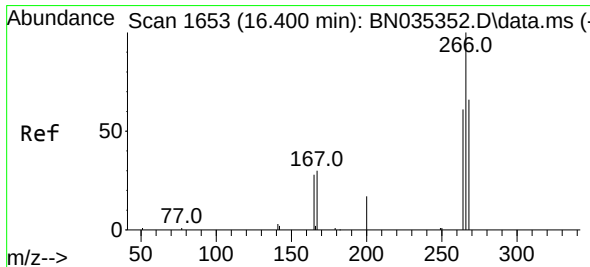
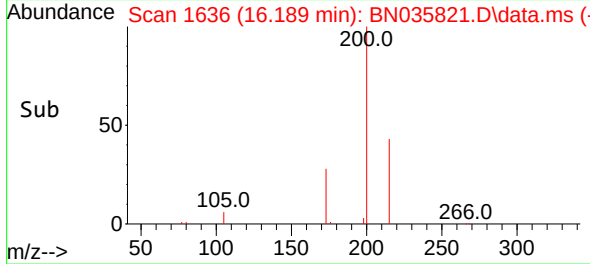
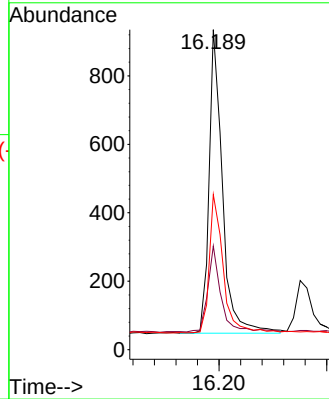
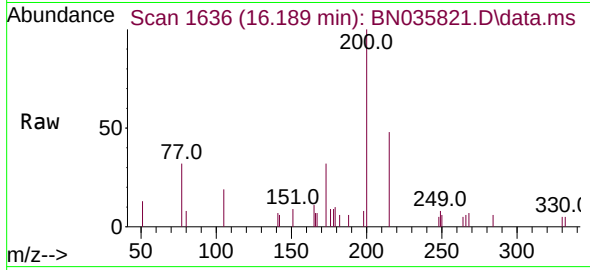
#23
Atrazine
Concen: 0.405 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:200 Resp: 152
Ion Ratio Lower Upper
200 100
173 32.4 24.1 36.1
215 48.4 36.9 55.3

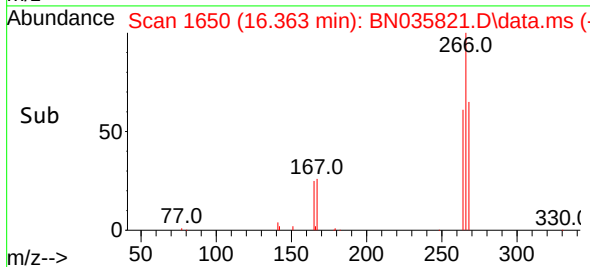
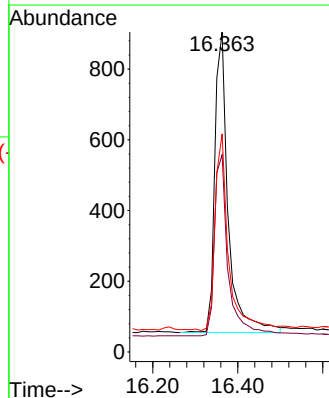
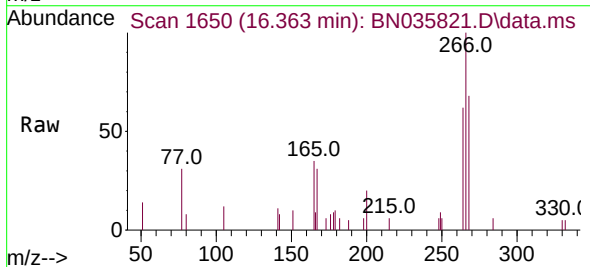
Manual Integrations
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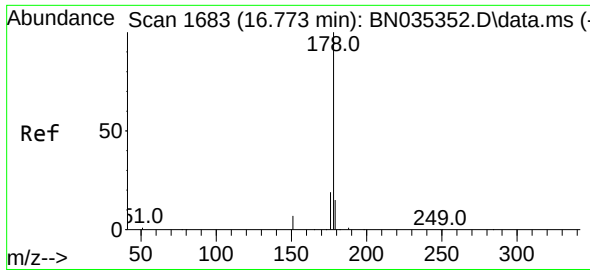
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.690 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

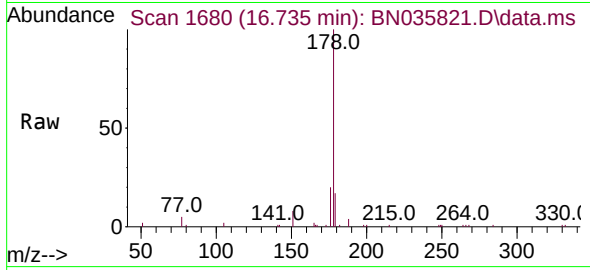
Tgt Ion:266 Resp: 1863
Ion Ratio Lower Upper
266 100
264 61.3 42.3 63.5
268 65.9 43.3 64.9#





#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1683
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

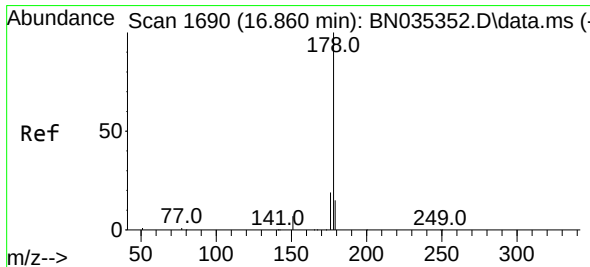
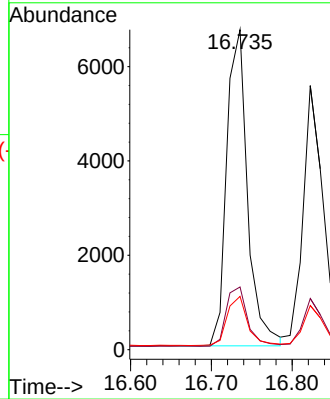
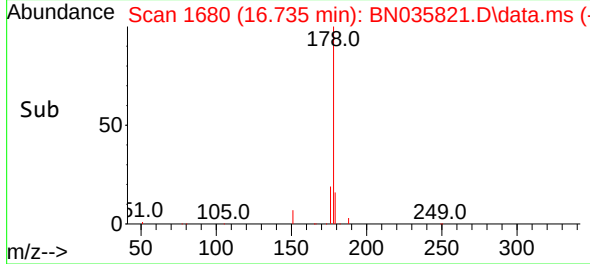
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:178 Resp: 1200
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5

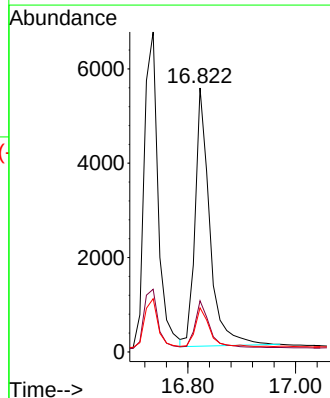
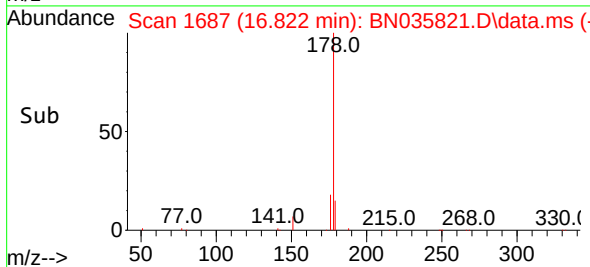
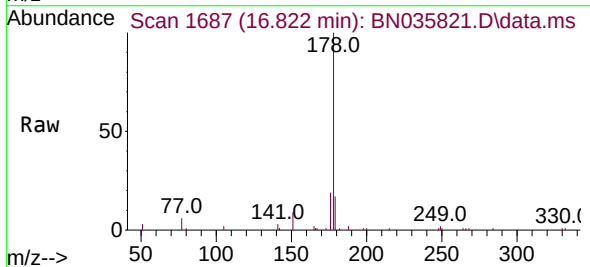
Manual Integrations
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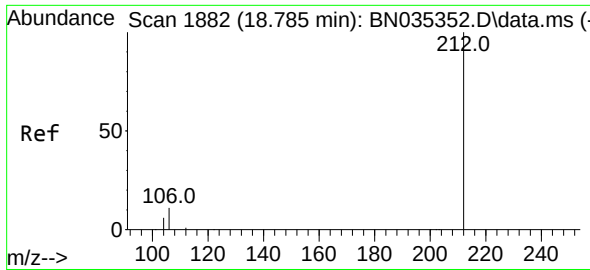
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

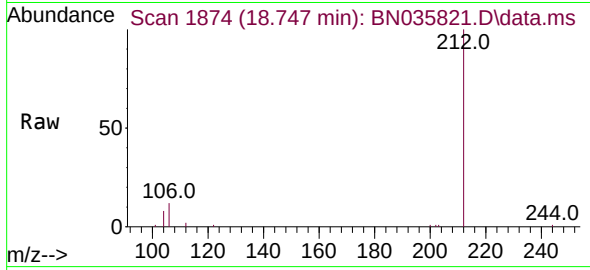
Tgt Ion:178 Resp: 10344
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 14.9 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

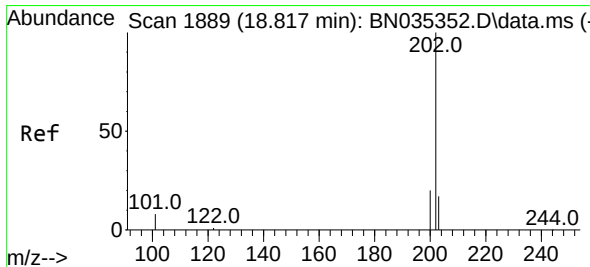
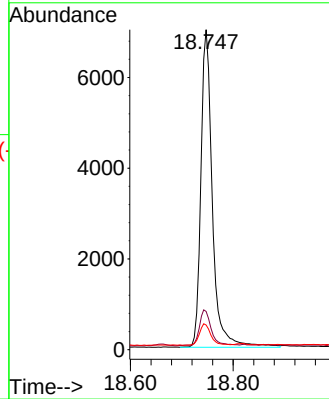
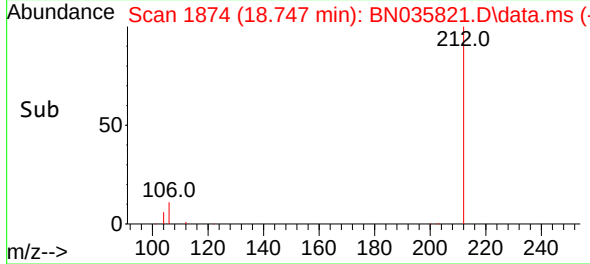
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:212 Resp: 10890
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.7 5.3 7.9

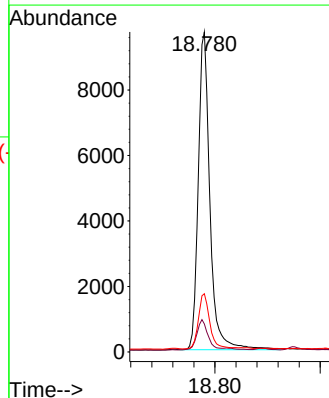
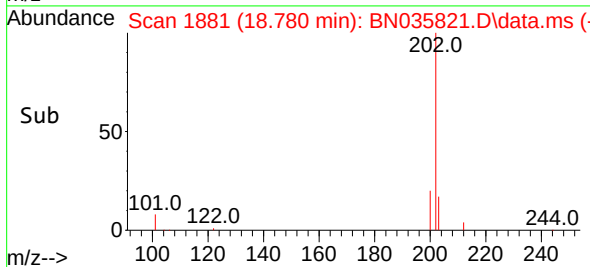
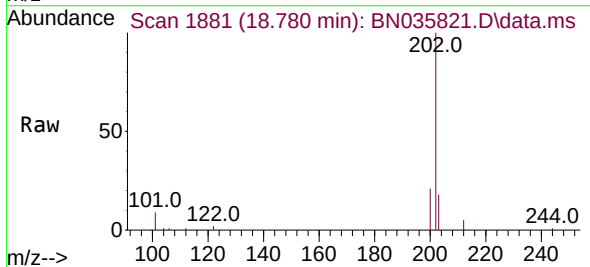
Manual Integrations
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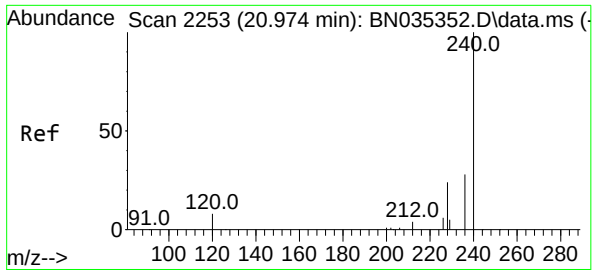
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906
Ion Ratio Lower Upper
202 100
101 9.0 7.4 11.0
203 17.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS

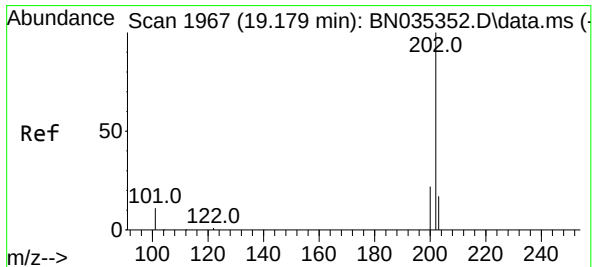
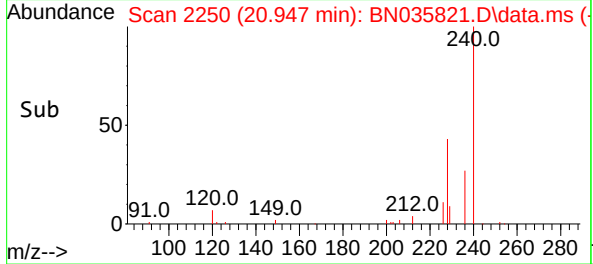
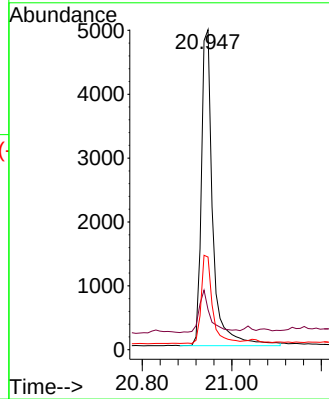
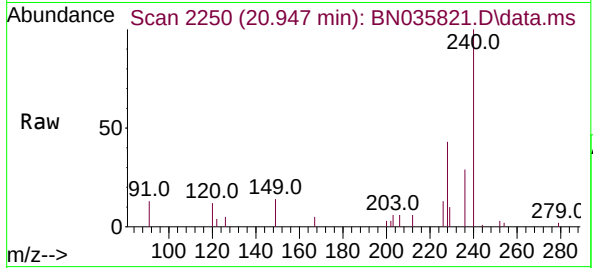
Tgt Ion:	240	Resp:	879
Ion Ratio	Lower	Upper	
240	100		
120	12.5	7.9	11.9
236	29.0	22.9	34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.492 ng

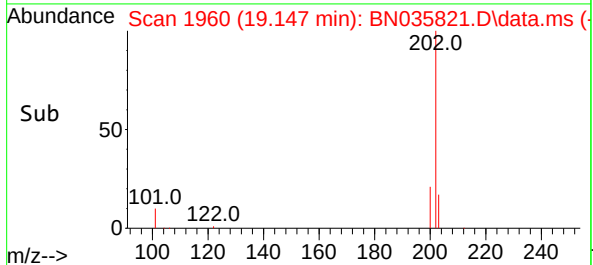
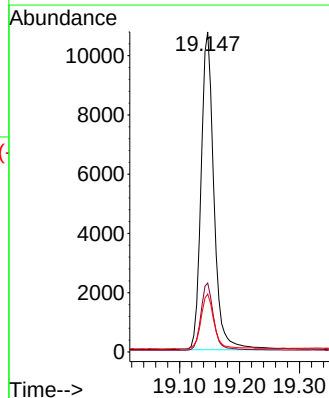
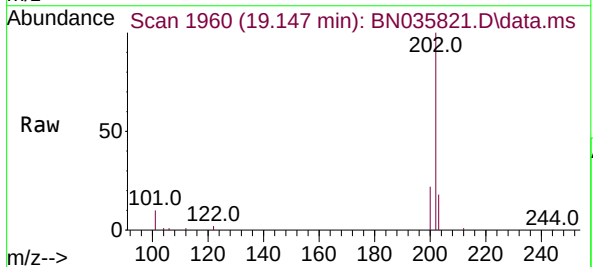
RT: 19.147 min Scan# 1960

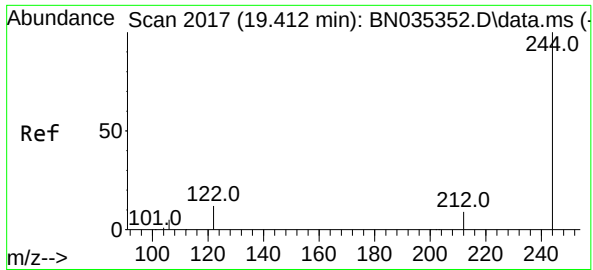
Delta R.T. -0.014 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

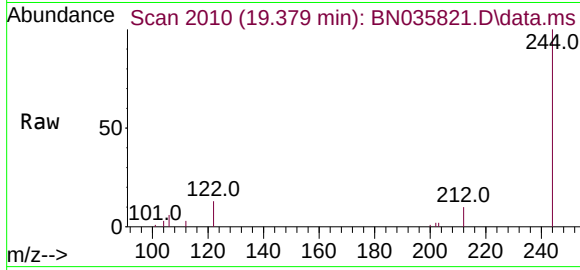
Tgt Ion:	202	Resp:	15976
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.0	25.4
203	17.5	14.3	21.5





#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

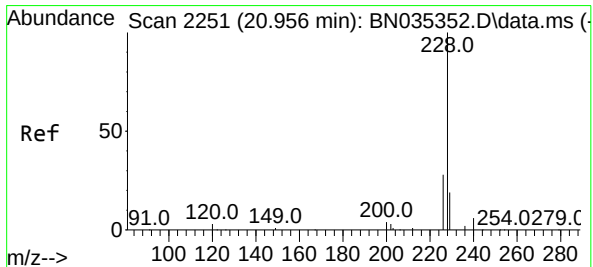
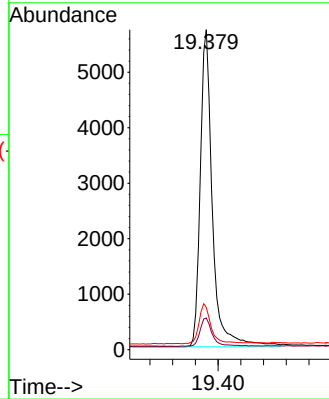
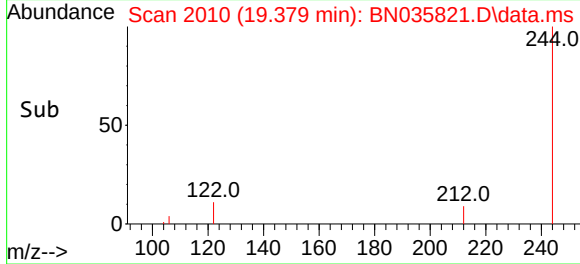
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:244 Resp: 8459
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.2 10.3 15.5

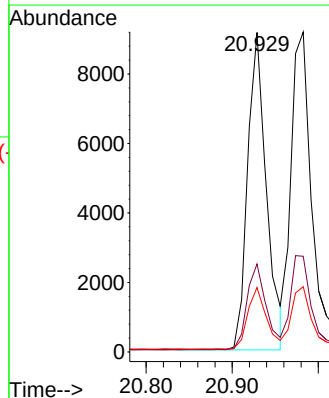
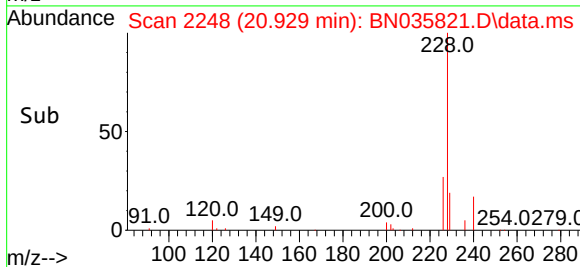
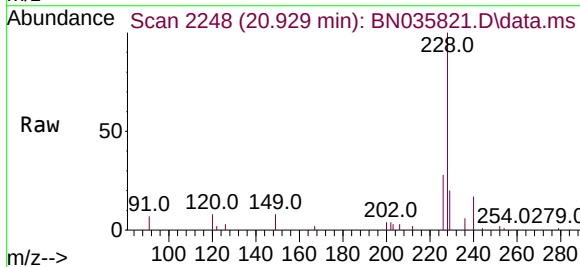
Manual Integrations
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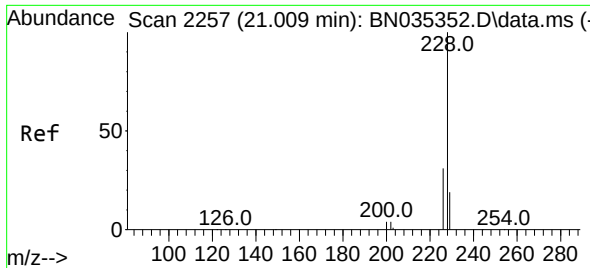
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 20.2 15.8 23.8





#33

Chrysene

Concen: 0.506 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS

Tgt Ion:228 Resp: 16049

Ion Ratio Lower Upper

228 100

226 29.9 24.6 37.0

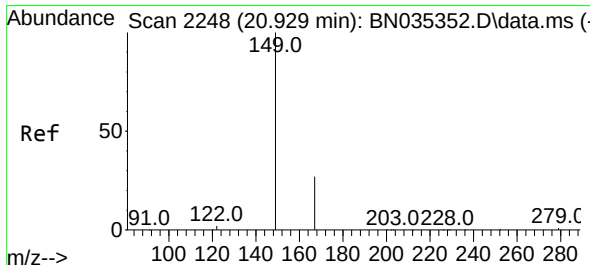
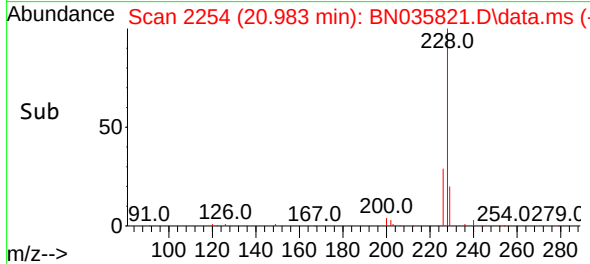
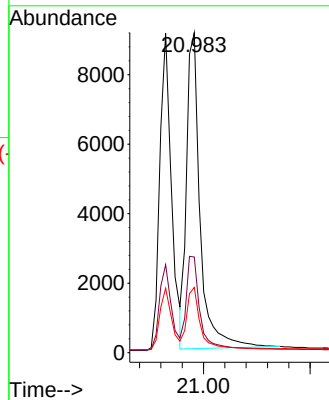
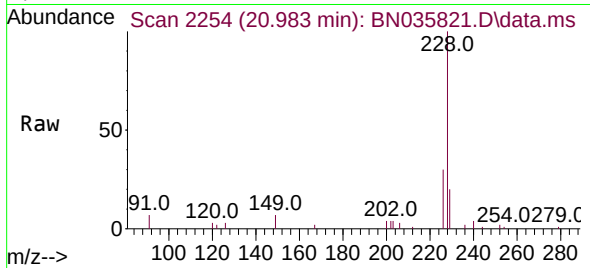
229 20.4 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.499 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

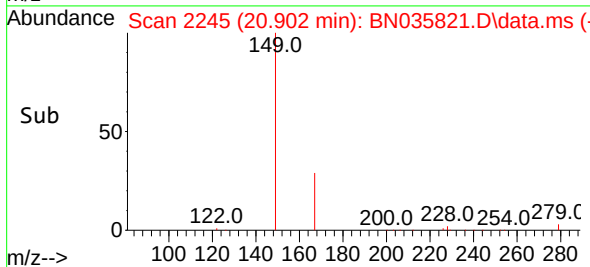
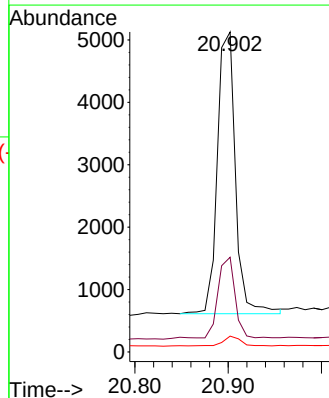
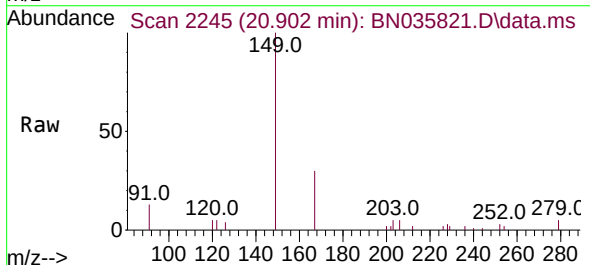
Tgt Ion:149 Resp: 6067

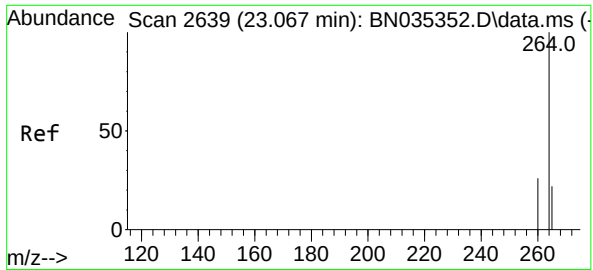
Ion Ratio Lower Upper

149 100

167 26.7 22.2 33.4

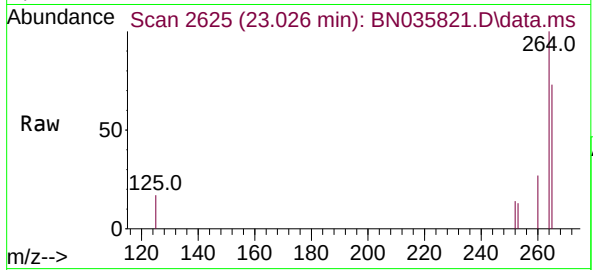
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

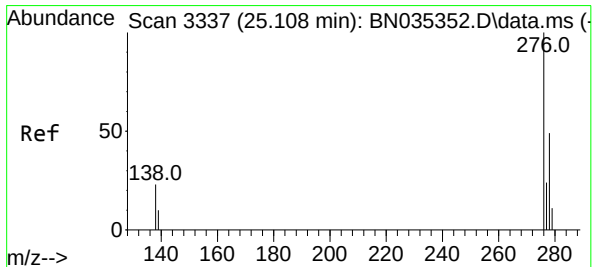
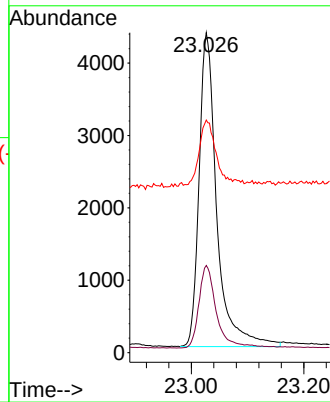
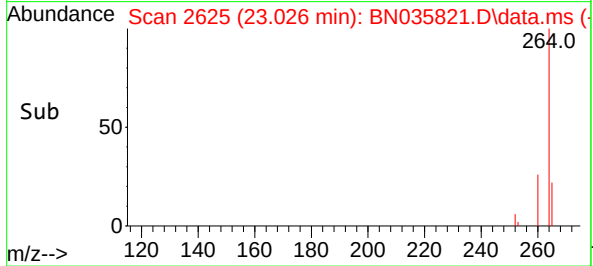
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:264 Resp: 9479
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 72.7 40.2 60.4

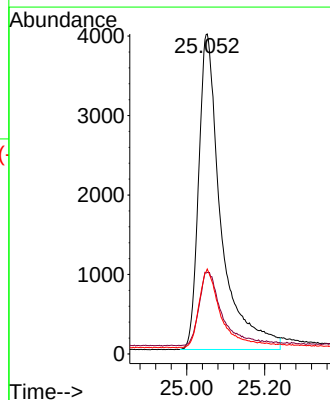
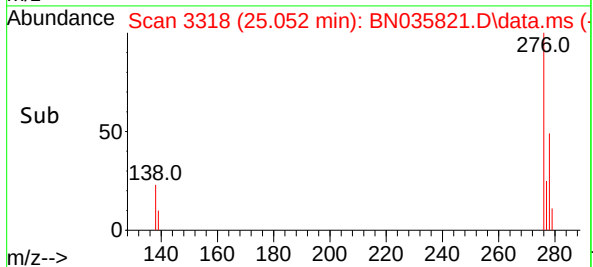
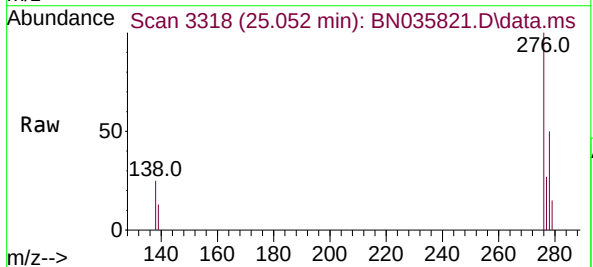
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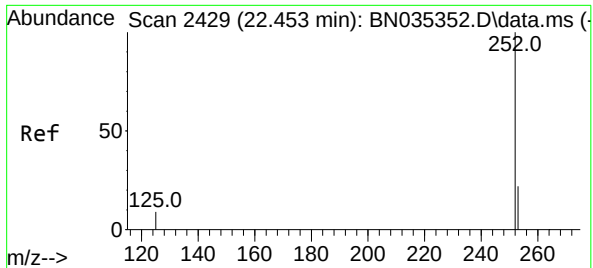
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

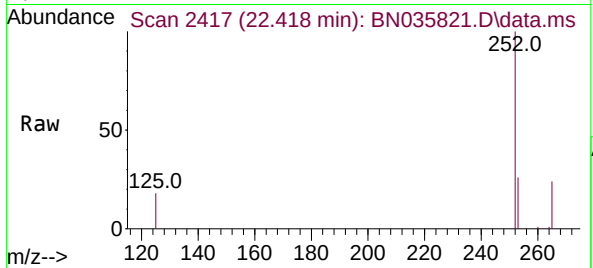
Tgt Ion:276 Resp: 15853
Ion Ratio Lower Upper
276 100
138 22.9 19.4 29.0
277 24.1 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

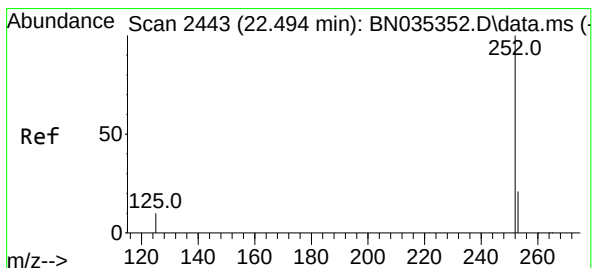
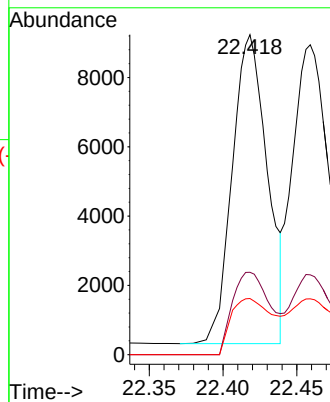
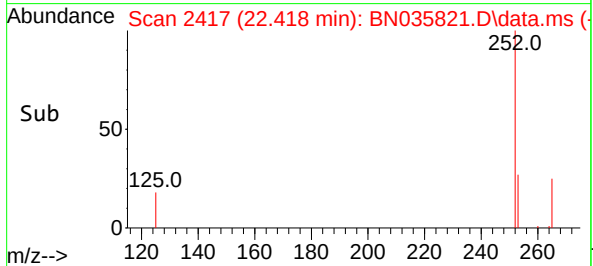
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:252 Resp: 2064
Ion Ratio Lower Upper
252 100
253 25.8 19.6 29.4
125 17.6 9.6 14.4

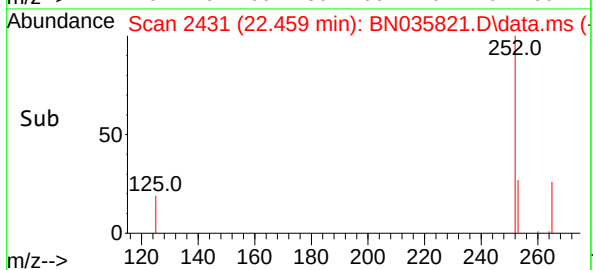
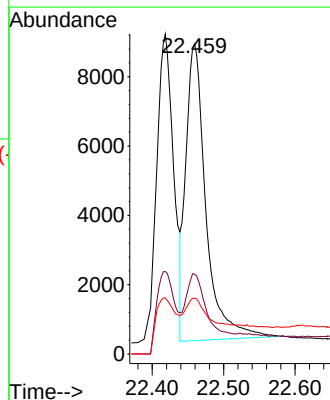
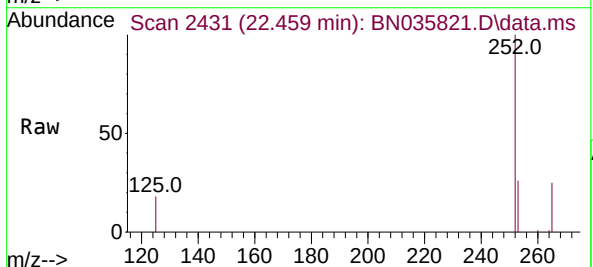
Manual Integrations
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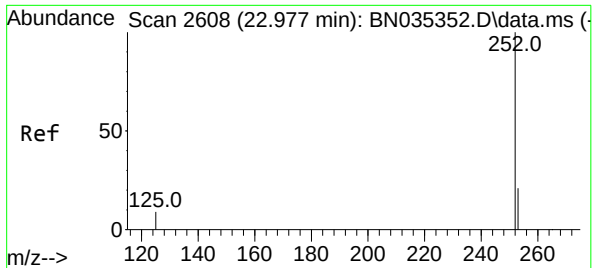
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743
Ion Ratio Lower Upper
252 100
253 25.8 19.5 29.3
125 18.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.481 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS

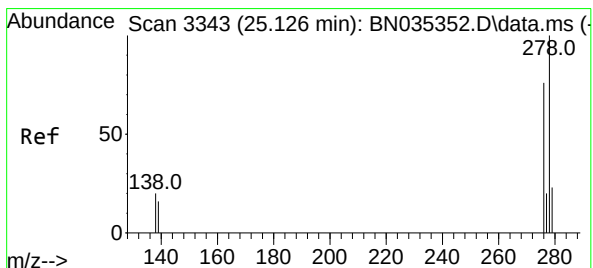
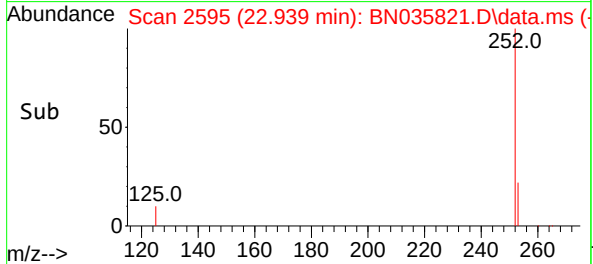
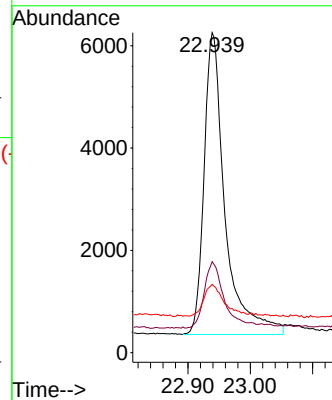
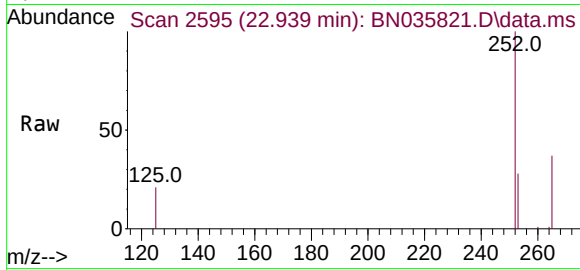
Tgt Ion:	252	Resp:	1374
Ion Ratio	Lower	Upper	
252	100		
253	28.5	20.2	30.4
125	21.3	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.396 ng

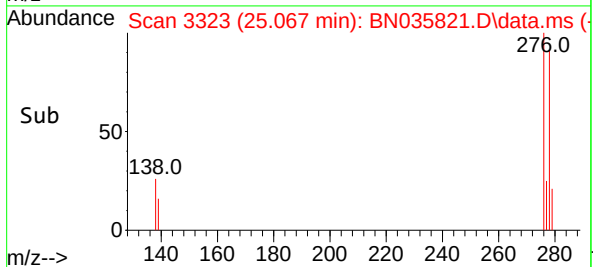
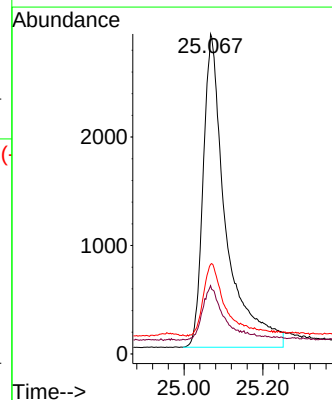
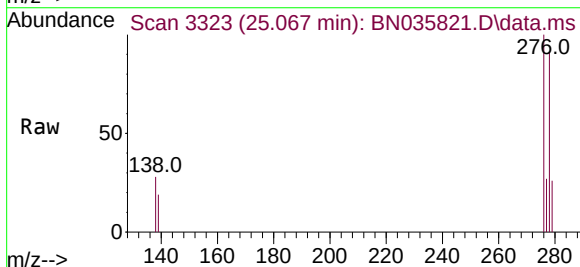
RT: 25.067 min Scan# 3323

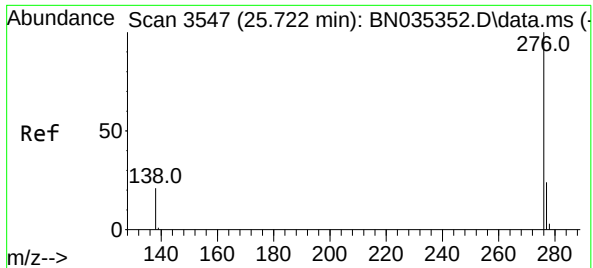
Delta R.T. -0.015 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Tgt Ion:	278	Resp:	11568
Ion Ratio	Lower	Upper	
278	100		
139	21.3	14.2	21.4
279	28.0	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.433 ng

RT: 25.658 min Scan# 30

Delta R.T. -0.021 min

Lab File: BN035821.D

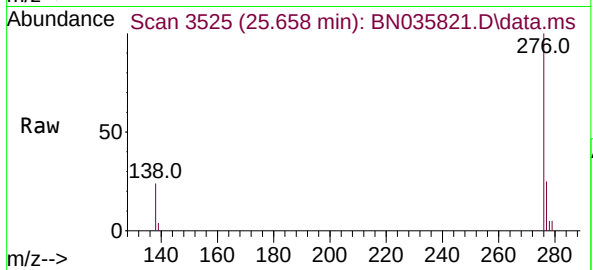
Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS



Tgt Ion:276 Resp: 1323

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

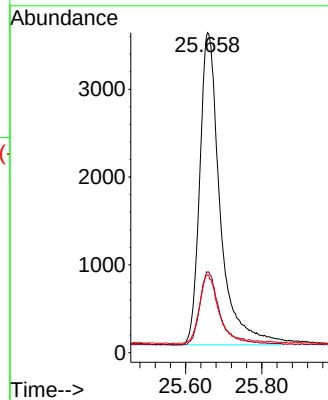
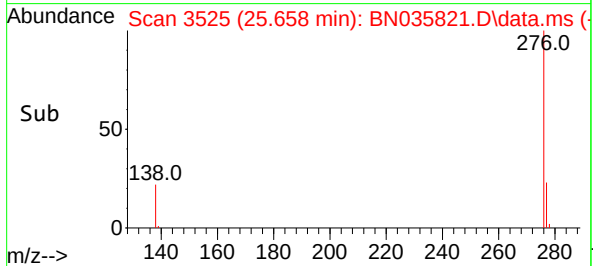
138 24.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218MSD	SDG No.:	P5376
Lab Sample ID:	P5376-09MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN035822.D	1	12/23/24 13:29	12/24/24 15:31	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3190	7.257				
1146-65-2	Naphthalene-d8	7950	9.998				
15067-26-2	Acenaphthene-d10	4890	13.914				
1517-22-2	Phenanthrene-d10	10100	16.686				
1719-03-5	Chrysene-d12	9500	20.938				
1520-96-3	Perylene-d12	9990	23.02				

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 : BN035822.D
 Acq On : 24 Dec 2024 15:31
 Operator : RC/JU
 Sample : P5376-09MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MSD

Manual Integrations
APPROVED

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

Quant Time: Dec 24 23:19:11 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	3187	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7953	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4887	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10068	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9501	0.400	ng	#-0.02
35) Perylene-d12	23.020	264	9990	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	967	0.121	ng	0.00
5) Phenol-d6	6.477	99	640	0.067	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2023m	0.416	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5387	0.433	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	787	0.227	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6851	0.371	ng	-0.02
27) Fluoranthene-d10	18.747	212	12293	0.431	ng	-0.01
31) Terphenyl-d14	19.374	244	9610	0.513	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	932	0.306	ng	# 75
3) n-Nitrosodimethylamine	3.270	42	376	0.148	ng	# 81
6) bis(2-Chloroethyl)ether	6.715	93	2448	0.304	ng	95
9) Naphthalene	10.052	128	8332	0.397	ng	99
10) Hexachlorobutadiene	10.340	225	1549	0.320	ng	# 99
12) 2-Methylnaphthalene	11.681	142	5571	0.371	ng	99
16) Acenaphthylene	13.625	152	8940	0.436	ng	100
17) Acenaphthene	13.978	154	5758	0.423	ng	99
18) Fluorene	14.983	166	7782	0.399	ng	98
20) 4,6-Dinitro-2-methylph...	15.100	198	341	0.344	ng	# 31
21) 4-Bromophenyl-phenylether	15.891	248	2147	0.365	ng	# 78
22) Hexachlorobenzene	16.003	284	2983	0.431	ng	95
23) Atrazine	16.189	200	1738	0.415	ng	96
24) Pentachlorophenol	16.351	266	2251	0.748	ng	87
25) Phenanthrene	16.735	178	13447	0.486	ng	99
26) Anthracene	16.822	178	11668	0.466	ng	98
28) Fluoranthene	18.775	202	16762	0.450	ng	99
30) Pyrene	19.142	202	17829	0.508	ng	99
32) Benzo(a)anthracene	20.920	228	15744	0.474	ng	100
33) Chrysene	20.974	228	16946	0.494	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6876	0.524	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	16588	0.425	ng	98
37) Benzo(b)fluoranthene	22.412	252	22222	0.608	ng	# 93
38) Benzo(k)fluoranthene	22.453	252	18080	0.503	ng	# 93
39) Benzo(a)pyrene	22.933	252	14639	0.486	ng	# 90
40) Dibenzo(a,h)anthracene	25.064	278	12290	0.399	ng	94
41) Benzo(g,h,i)perylene	25.655	276	13609	0.423	ng	98

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

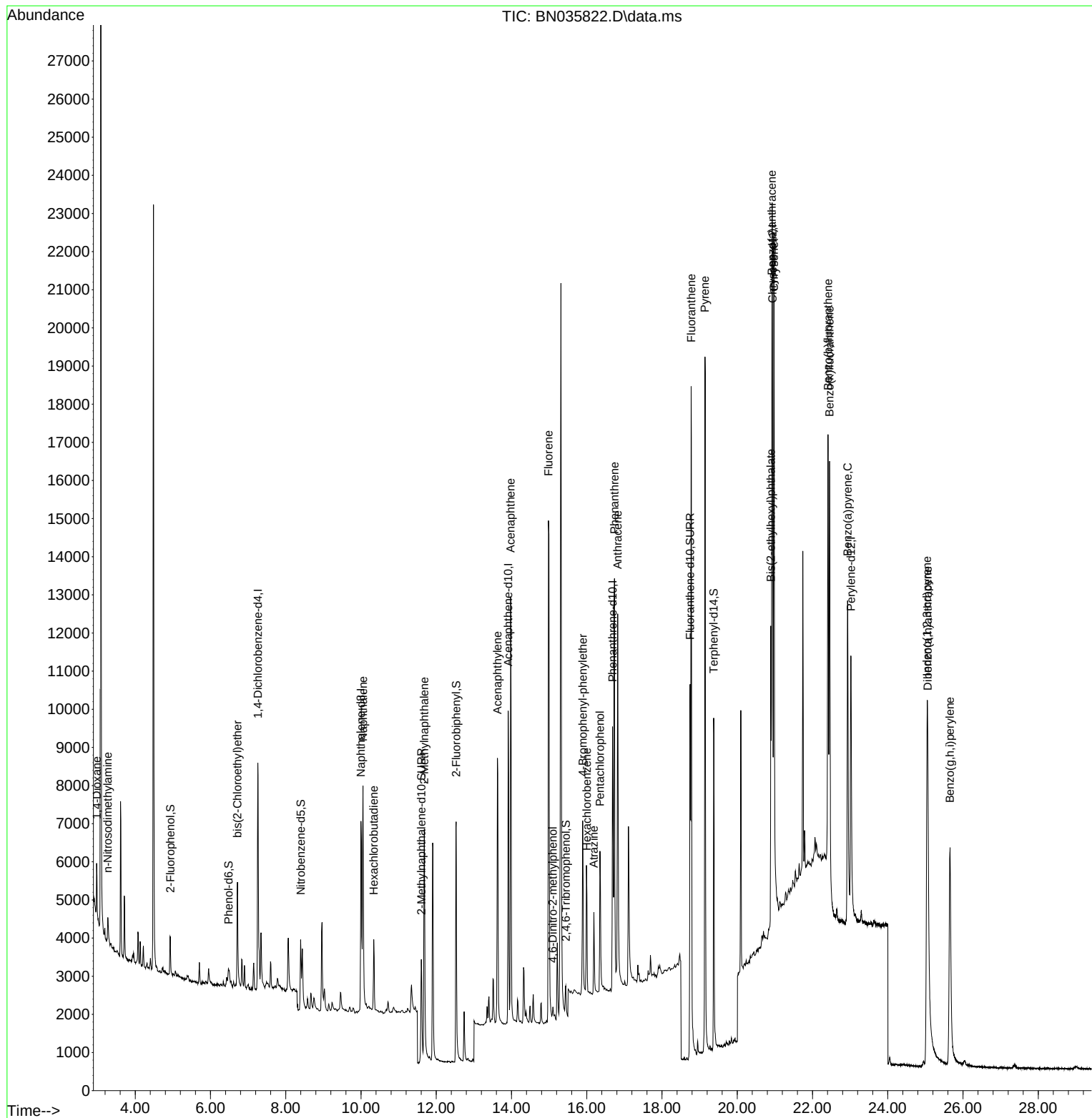
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035822.D
 Acq On : 24 Dec 2024 15:31
 Operator : RC/JU
 Sample : P5376-09MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

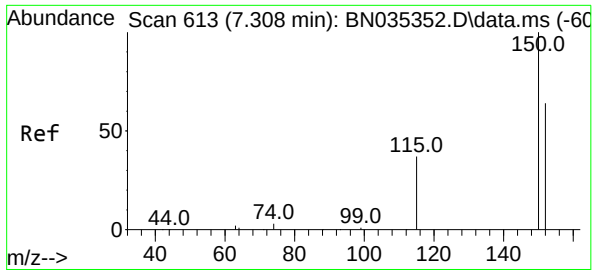
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MSD

Manual Integrations APPROVED

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

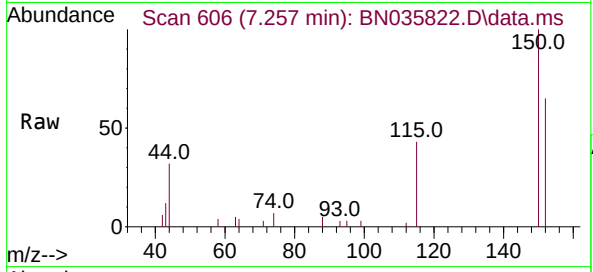
Quant Time: Dec 24 23:19:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

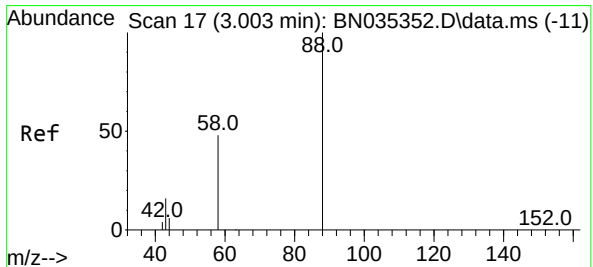
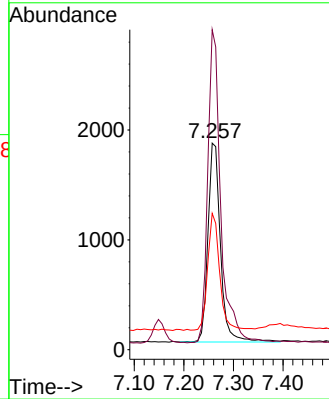
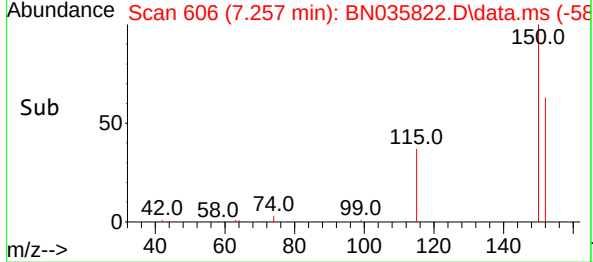
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:152 Resp: 318
Ion Ratio Lower Upper
152 100
150 154.9 124.0 186.0
115 66.0 49.6 74.4

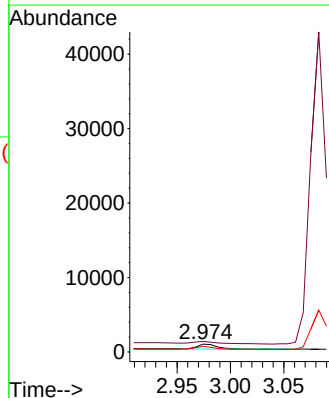
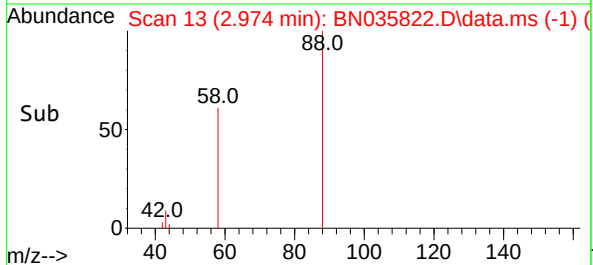
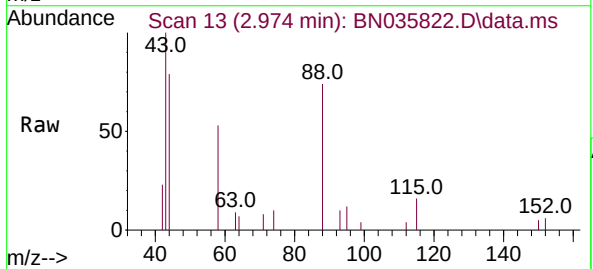
Manual Integrations
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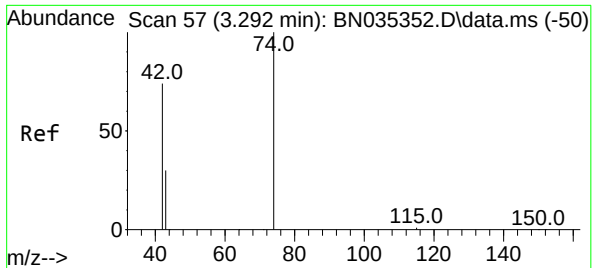
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

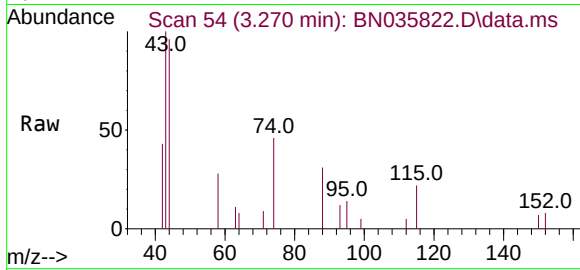
Tgt Ion: 88 Resp: 932
Ion Ratio Lower Upper
88 100
43 0.0 17.2 25.8#
58 67.9 44.5 66.7#





#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

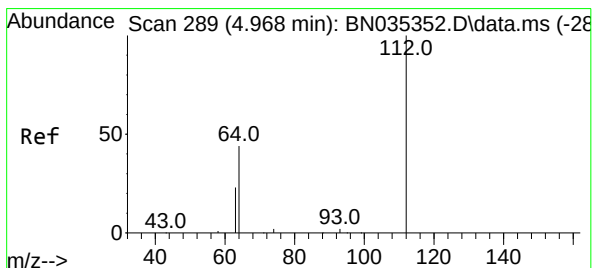
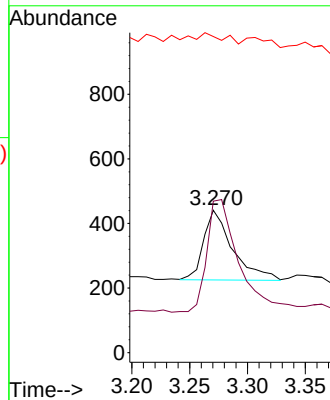
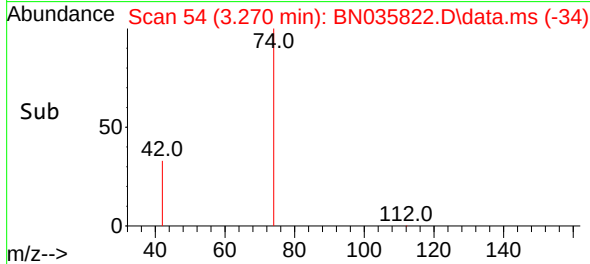
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion: 42 Resp: 370
Ion Ratio Lower Upper
42 100
74 180.6 124.9 187.3
44 0.0 2.2 3.4

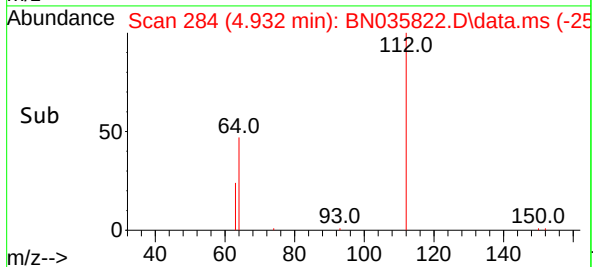
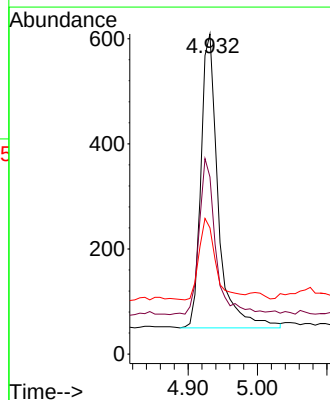
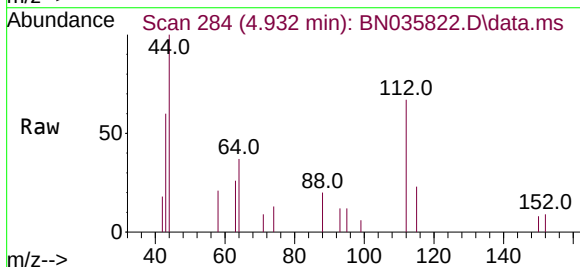
Manual Integrations
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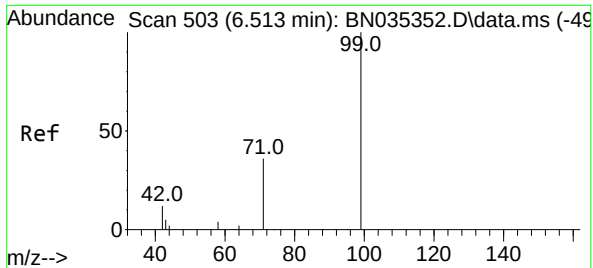
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

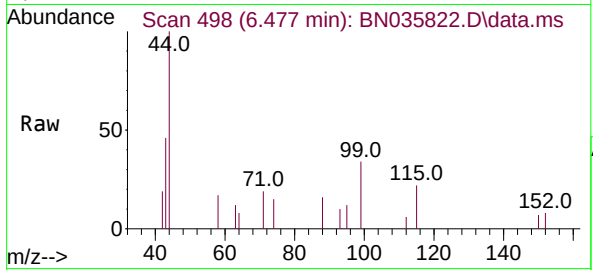
Tgt Ion:112 Resp: 967
Ion Ratio Lower Upper
112 100
64 52.6 39.8 59.8
63 27.0 21.0 31.6





#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

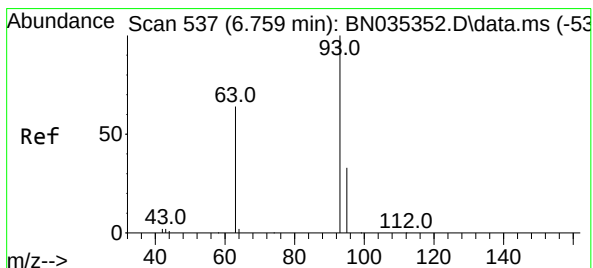
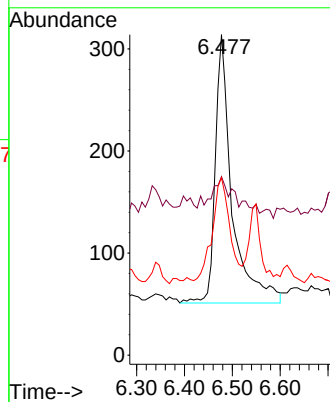
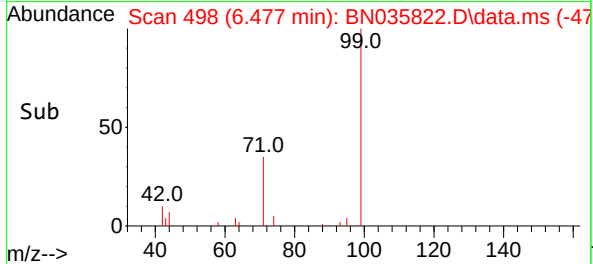
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion: 99 Resp: 640
Ion Ratio Lower Upper
99 100
42 16.3 11.4 17.2
71 42.2 29.3 43.9

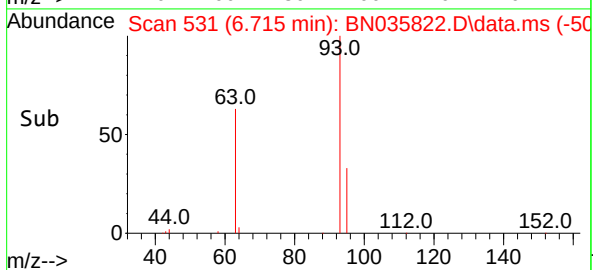
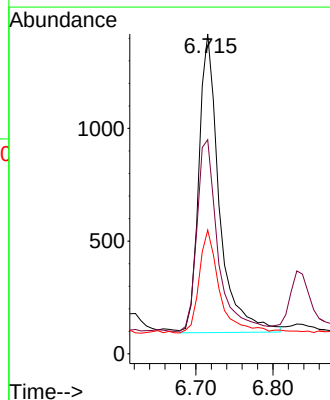
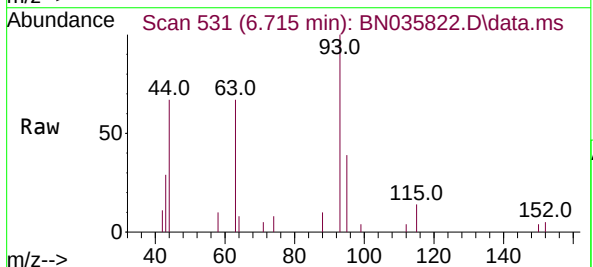
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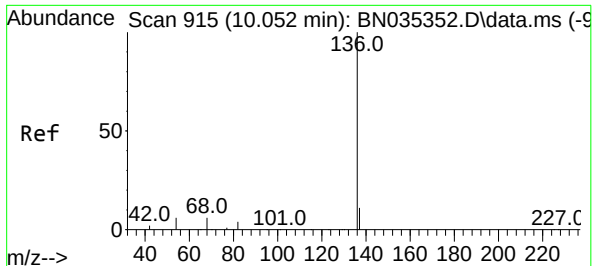
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448
Ion Ratio Lower Upper
93 100
63 66.0 50.4 75.6
95 35.5 25.7 38.5





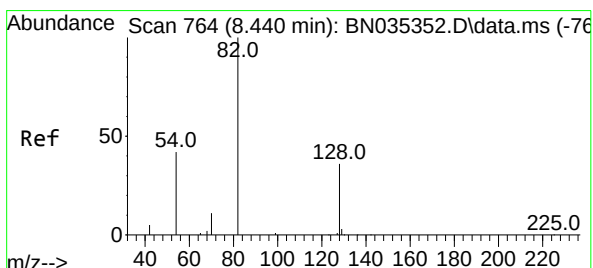
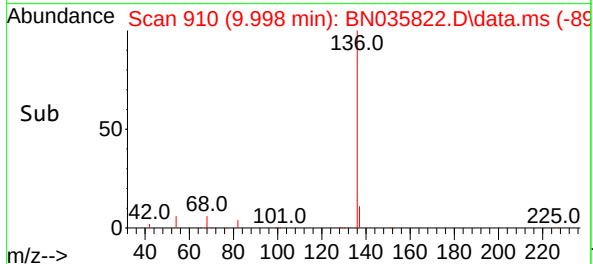
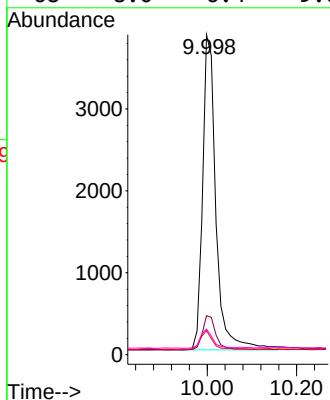
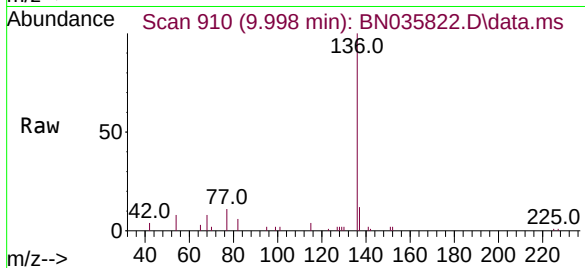
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:	136	Resp:	795
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

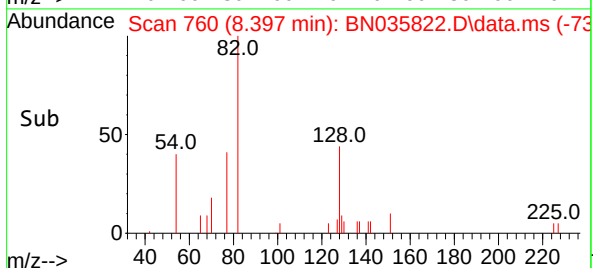
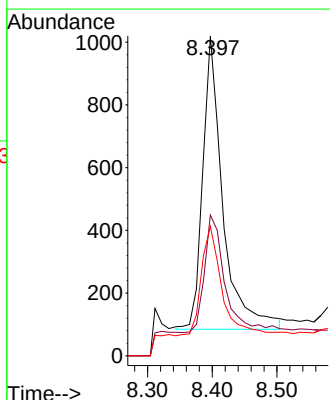
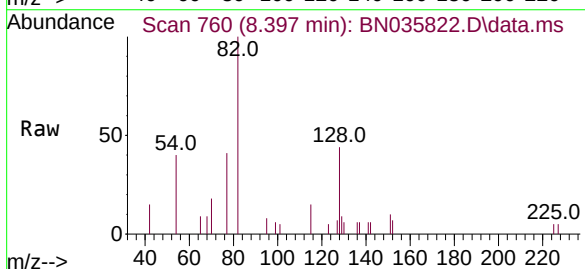
Manual Integrations
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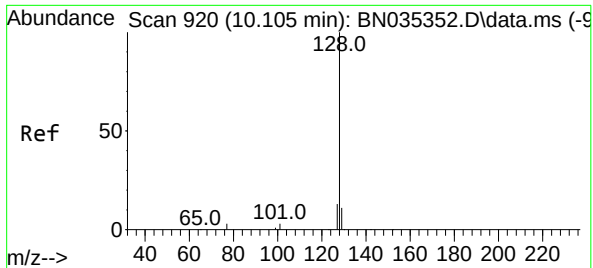
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.416 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:	82	Resp:	2023
Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	40.5	36.7	55.1





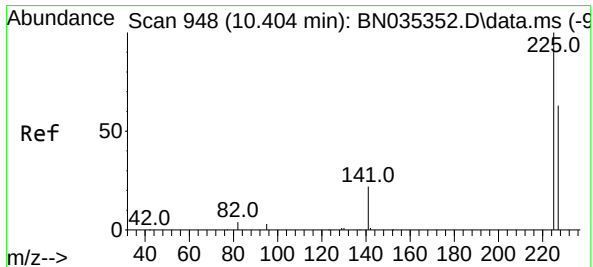
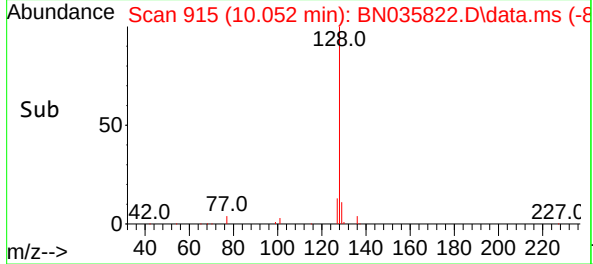
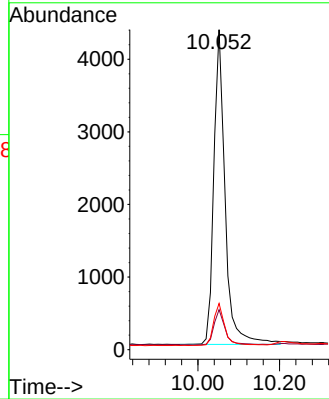
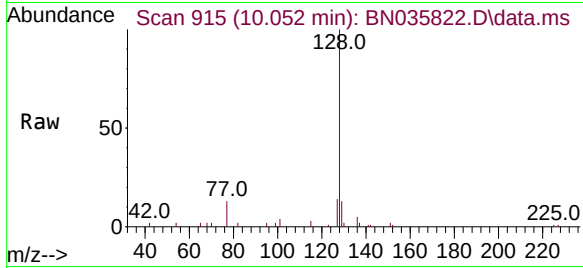
#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:128 Resp: 833
Ion Ratio Lower Upper
128 100
129 12.5 9.8 14.6
127 14.4 11.4 17.2

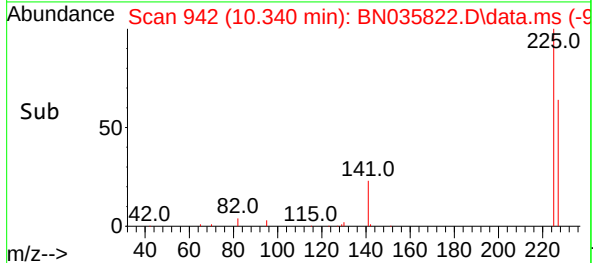
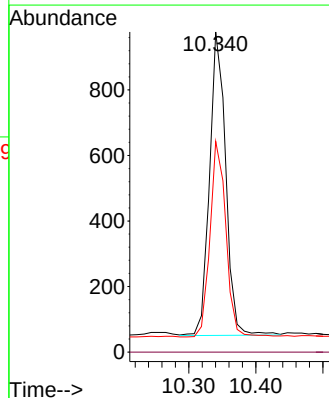
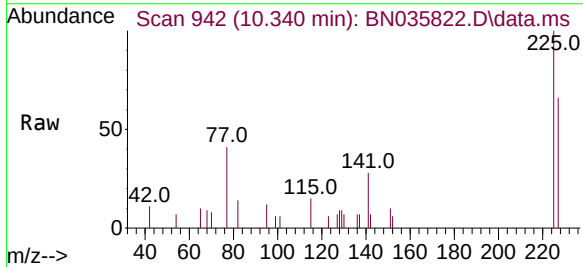
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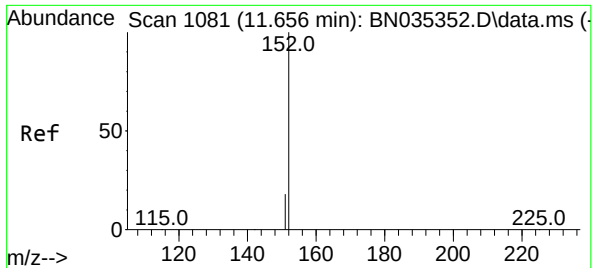
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

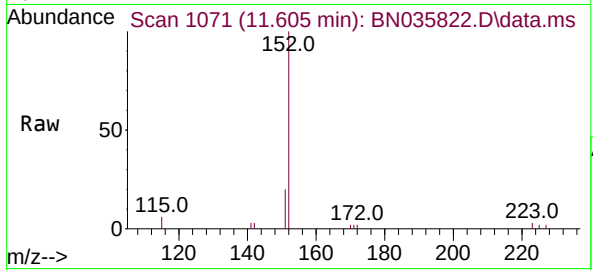
Tgt Ion:225 Resp: 1549
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

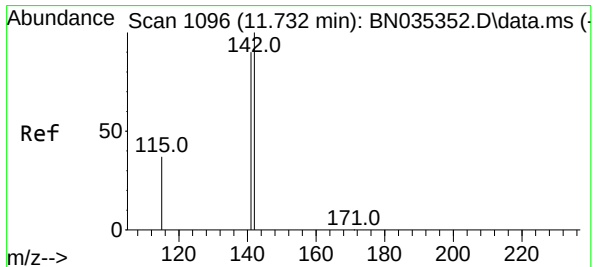
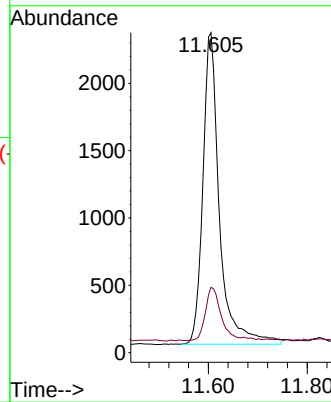
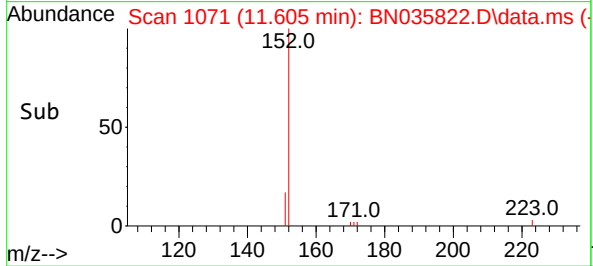
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:152 Resp: 538
Ion Ratio Lower Upper
152 100
151 16.6 16.6 25.0

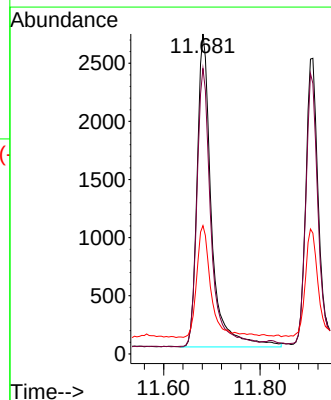
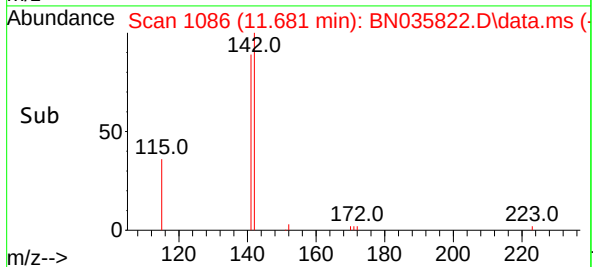
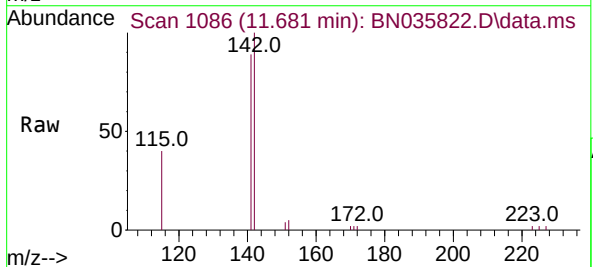
Manual Integrations
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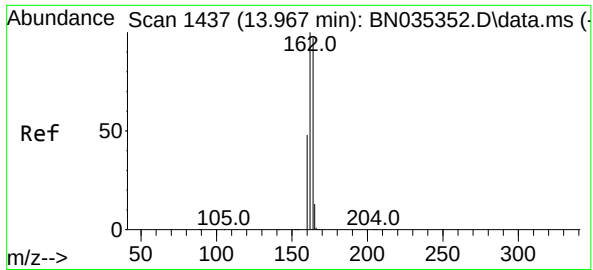
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

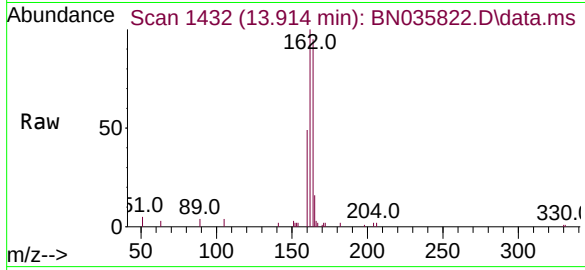
Tgt Ion:142 Resp: 5571
Ion Ratio Lower Upper
142 100
141 89.2 72.2 108.4
115 40.1 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

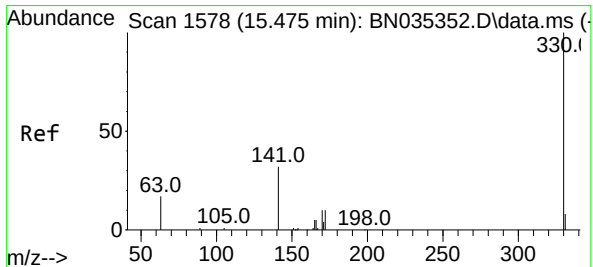
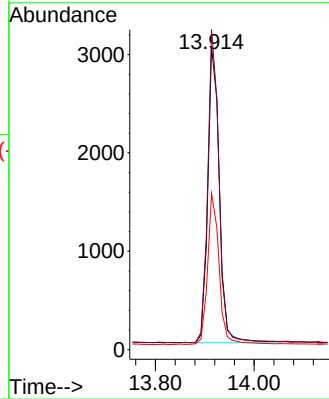
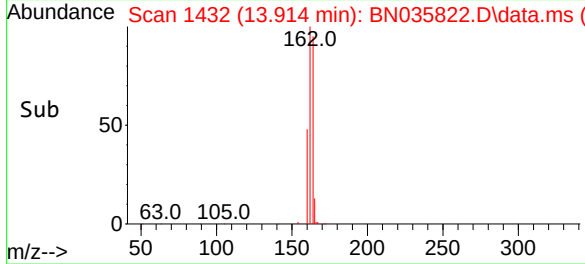
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:164 Resp: 488
Ion Ratio Lower Upper
164 100
162 105.6 82.2 123.2
160 51.5 40.1 60.1

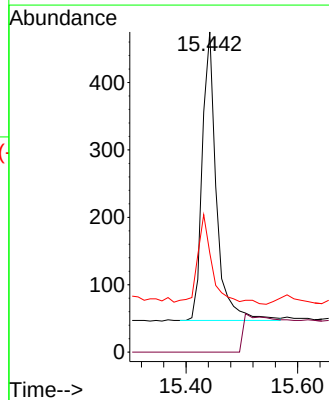
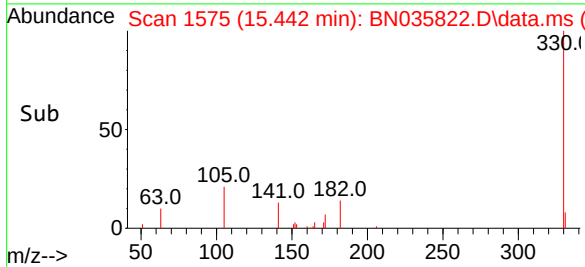
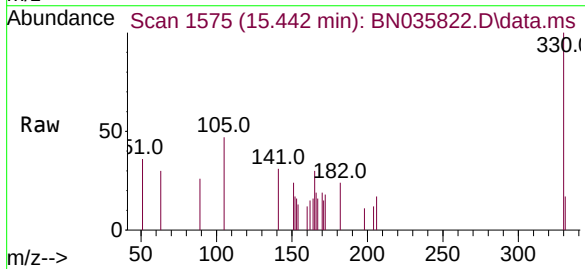
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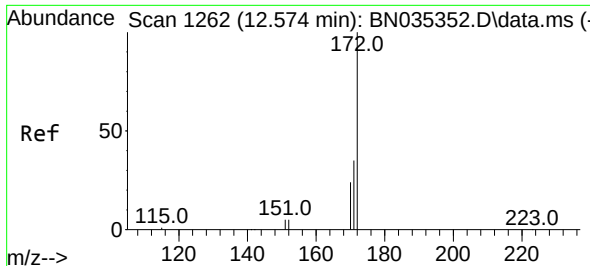
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

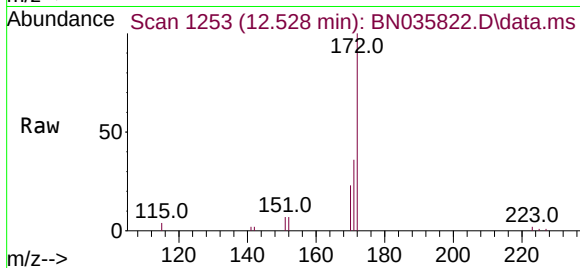
Tgt Ion:330 Resp: 787
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.5 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

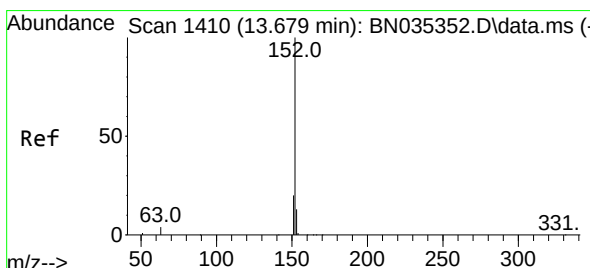
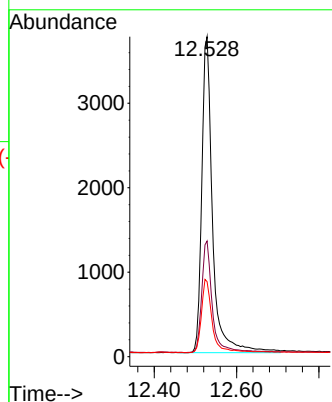
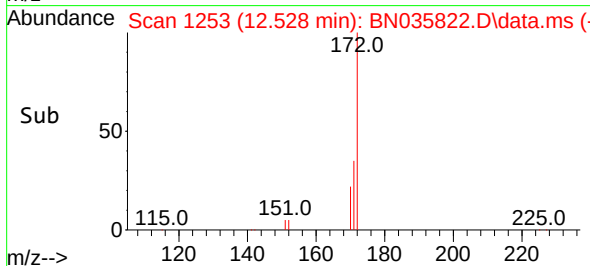
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:172 Resp: 685
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.4
170 23.5 19.8 29.8

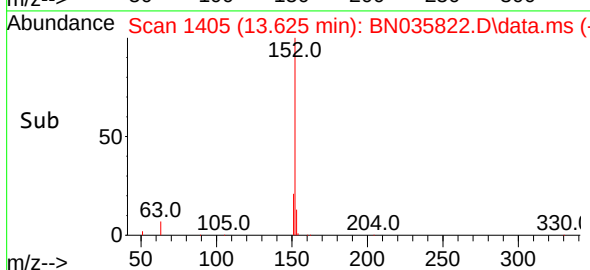
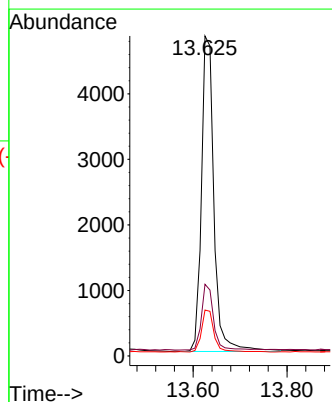
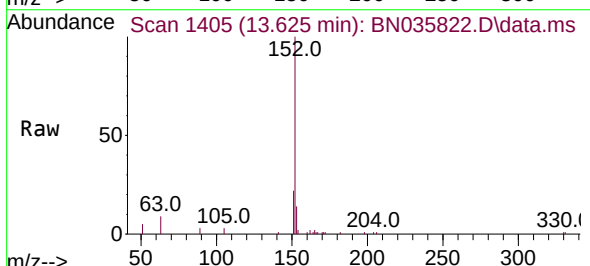
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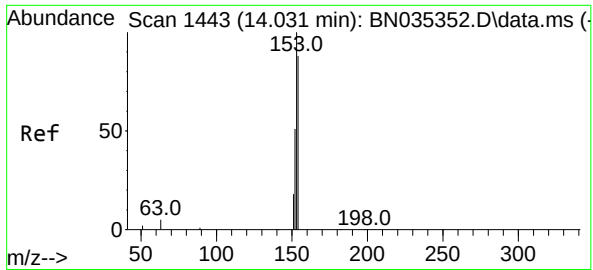
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

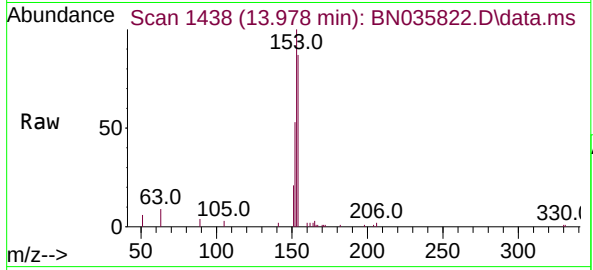
Tgt Ion:152 Resp: 8940
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

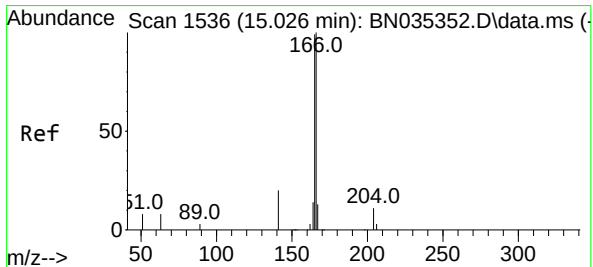
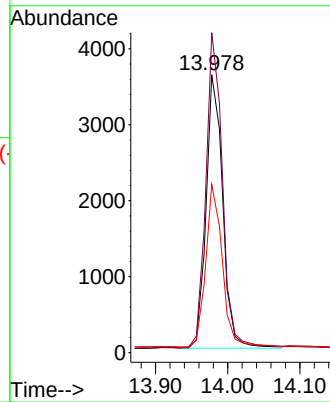
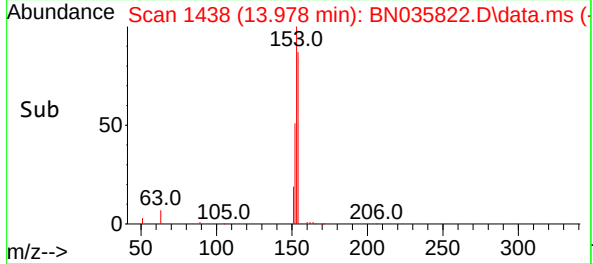
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:154 Resp: 5758
Ion Ratio Lower Upper
154 100
153 115.8 92.6 139.0
152 58.9 49.0 73.6

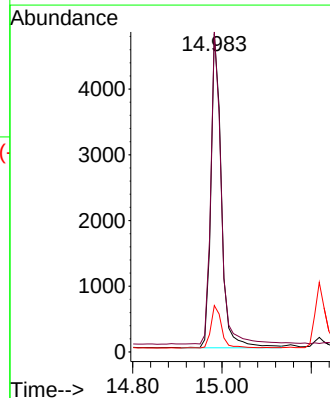
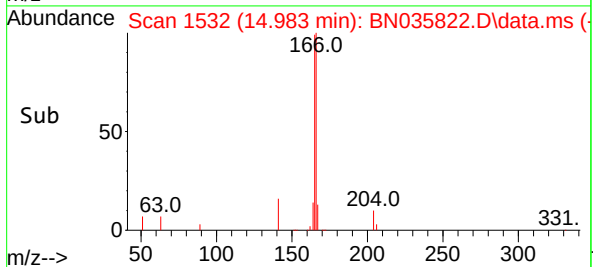
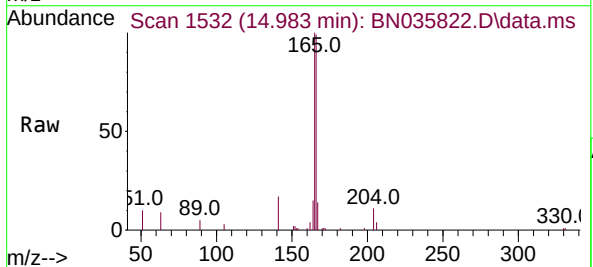
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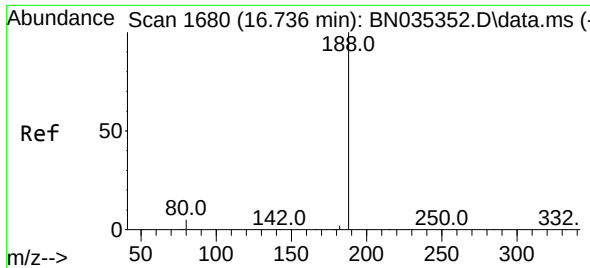
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

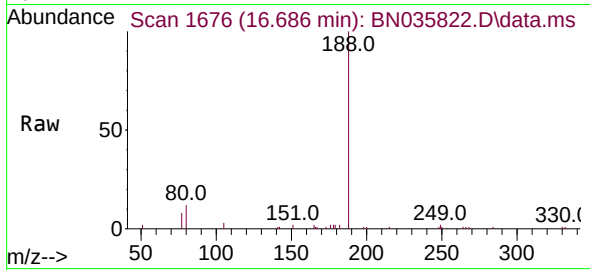
Tgt Ion:166 Resp: 7782
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.9 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1106
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

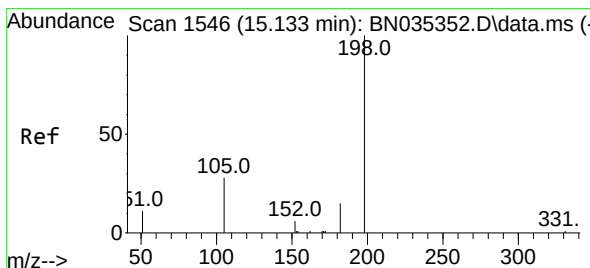
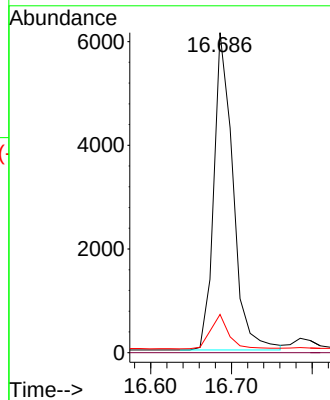
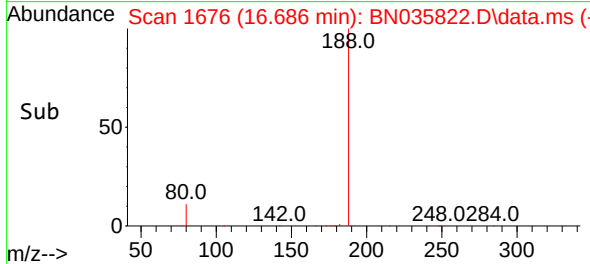
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:188 Resp: 1006
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.9 4.6 6.8

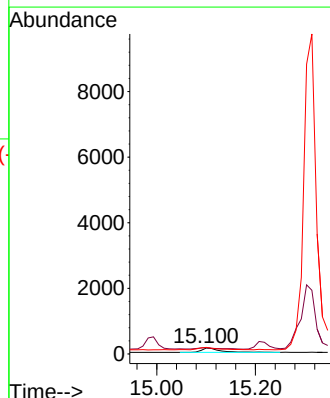
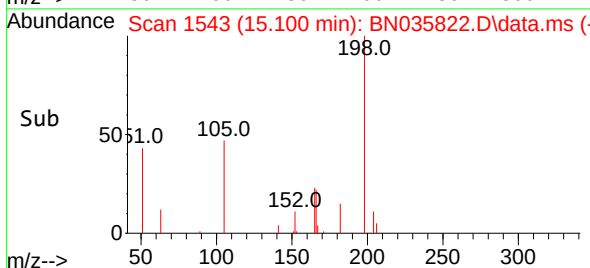
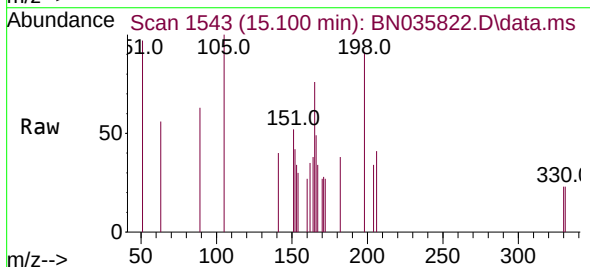
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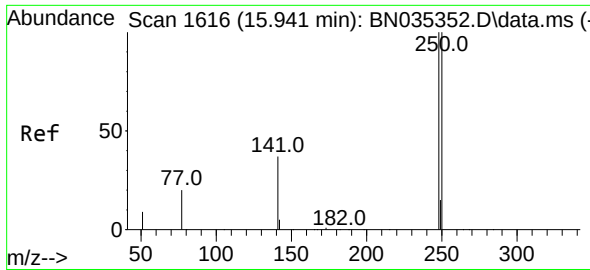
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

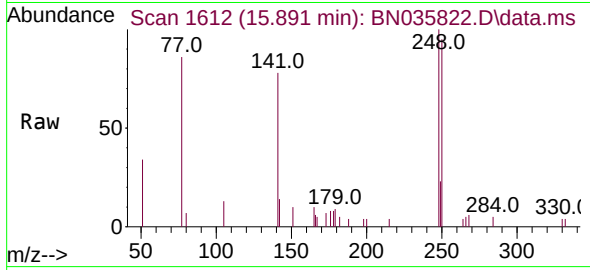
Tgt Ion:198 Resp: 341
Ion Ratio Lower Upper
198 100
51 106.6 46.5 69.7#
105 109.9 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

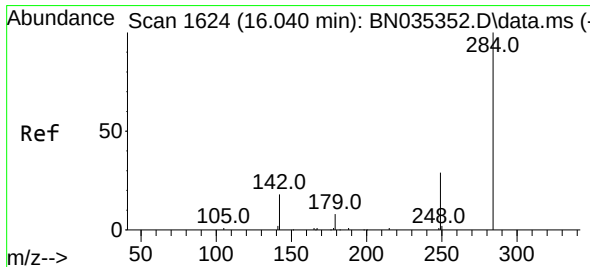
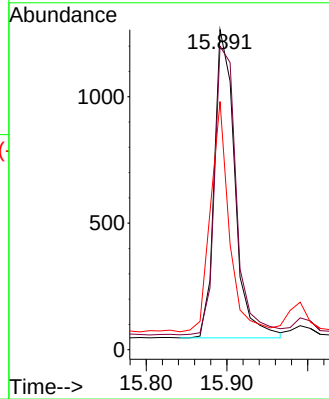
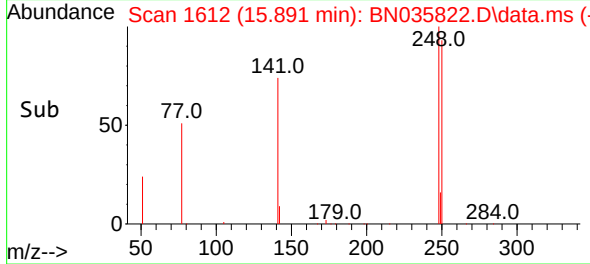
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:248 Resp: 214
Ion Ratio Lower Upper
248 100
250 94.8 80.6 120.8
141 77.5 31.5 47.3

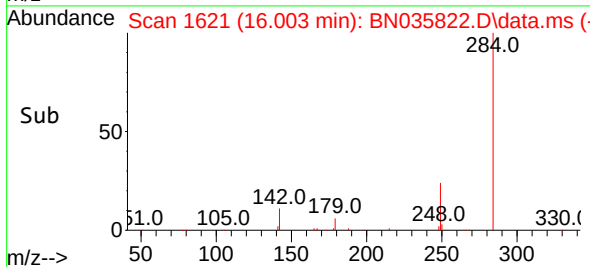
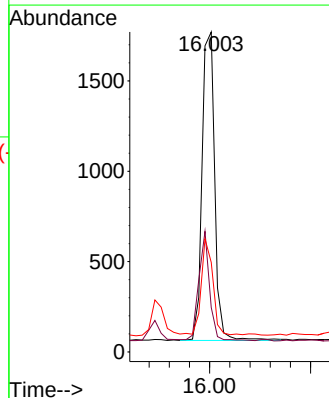
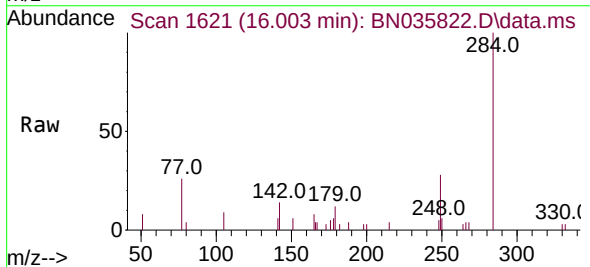
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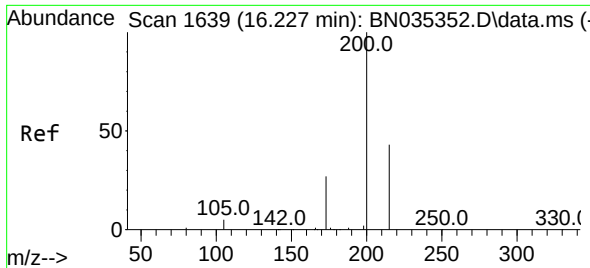
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983
Ion Ratio Lower Upper
284 100
142 30.0 26.7 40.1
249 28.6 24.6 36.8





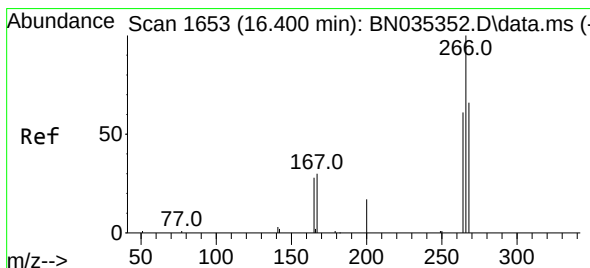
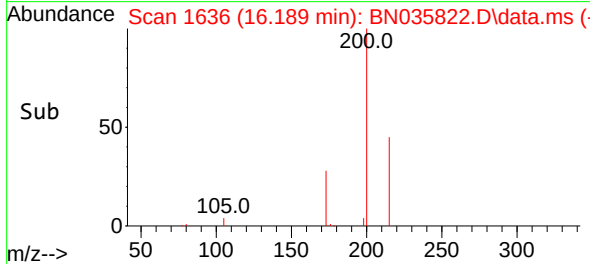
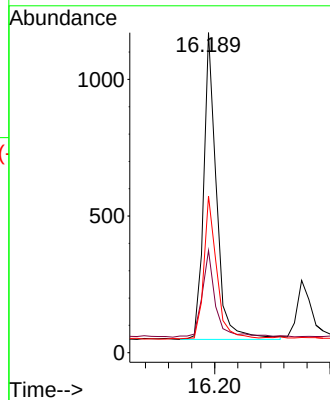
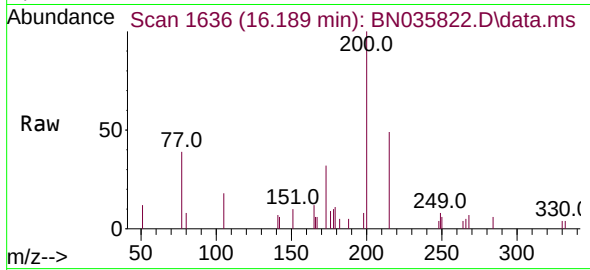
#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:200 Resp: 1738
Ion Ratio Lower Upper
200 100
173 31.9 24.1 36.1
215 48.9 36.9 55.3

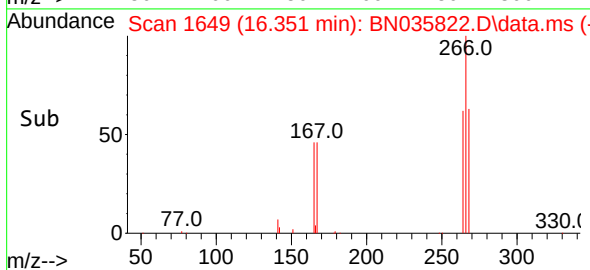
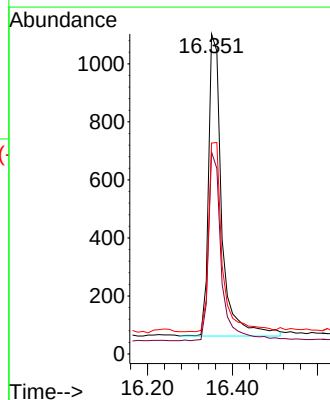
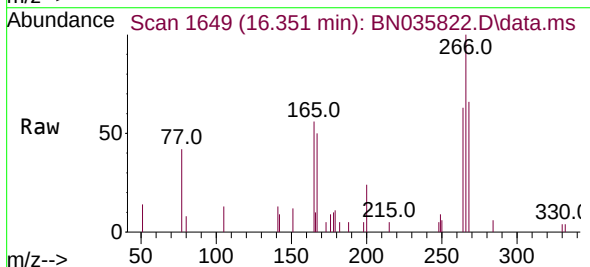
Manual Integrations
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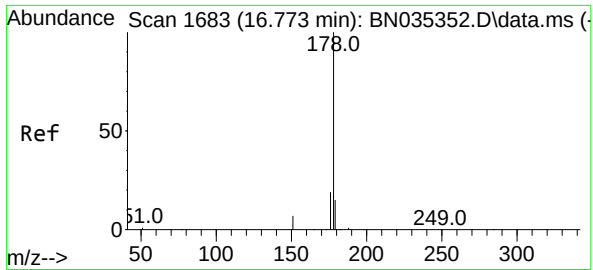
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

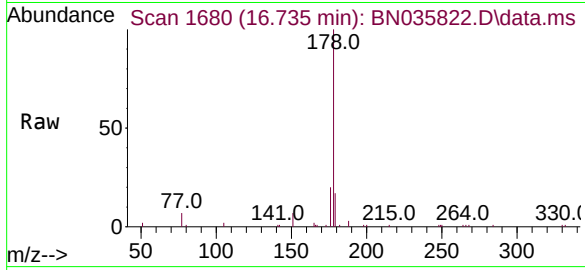
Tgt Ion:266 Resp: 2251
Ion Ratio Lower Upper
266 100
264 61.1 42.3 63.5
268 64.2 43.3 64.9





#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1683
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

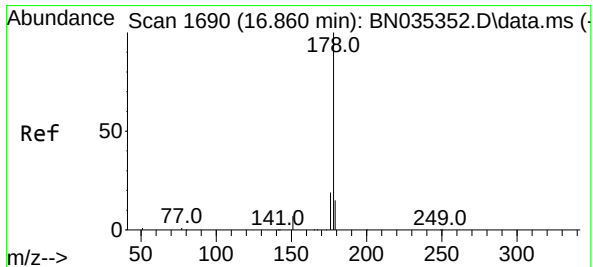
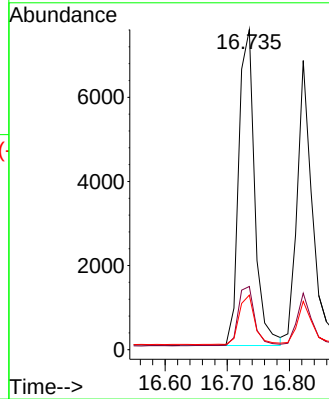
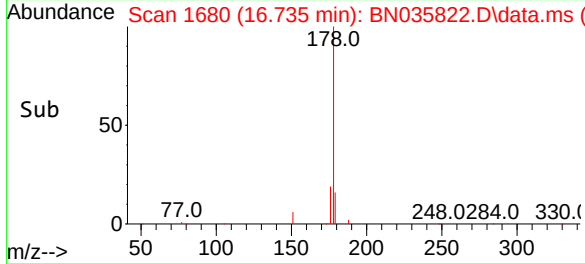
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:178 Resp: 1344
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.6 12.3 18.5

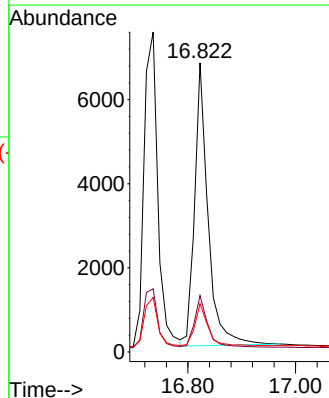
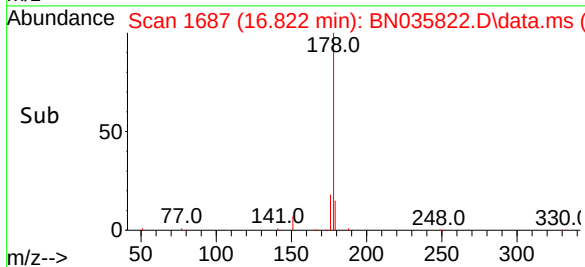
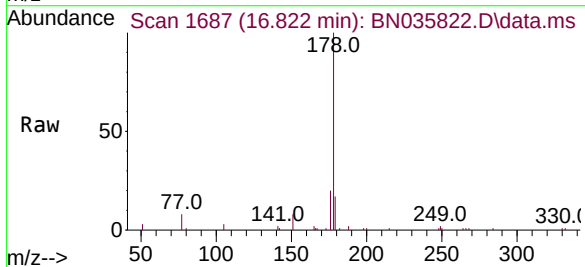
Manual Integrations
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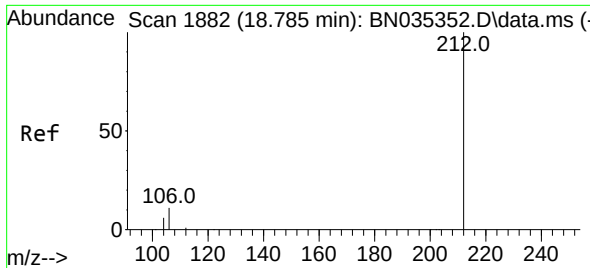
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

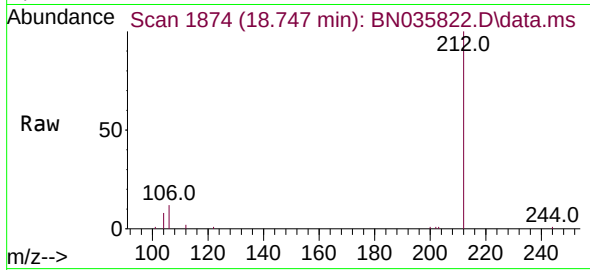
Tgt Ion:178 Resp: 11668
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.6
179 14.9 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

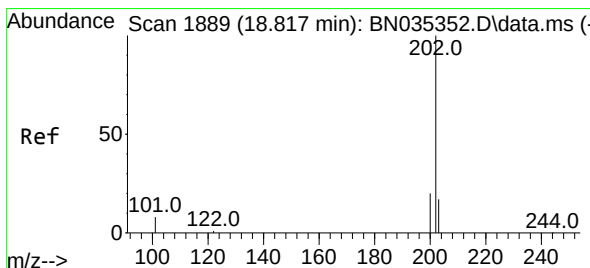
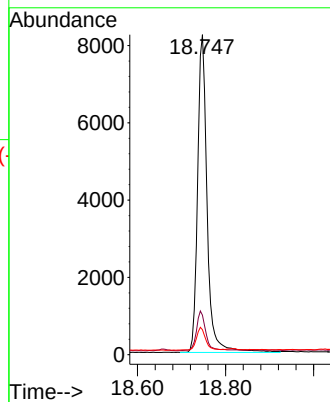
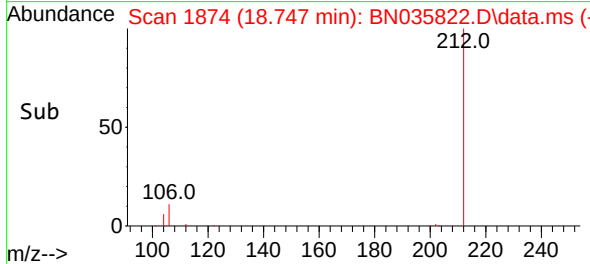
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:212 Resp: 1229
Ion Ratio Lower Upper
212 100
106 12.4 9.2 13.8
104 6.8 5.3 7.9

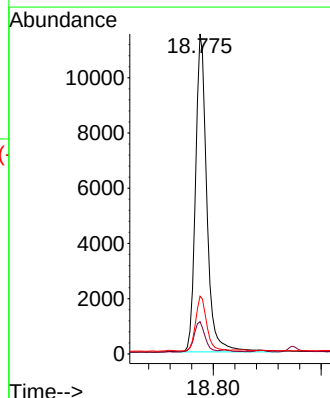
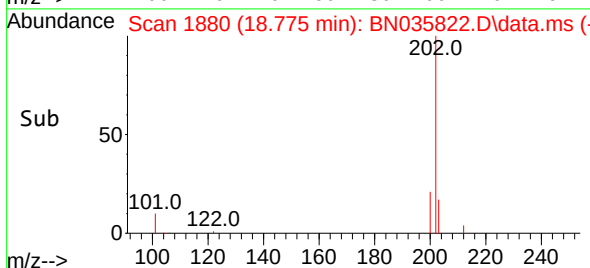
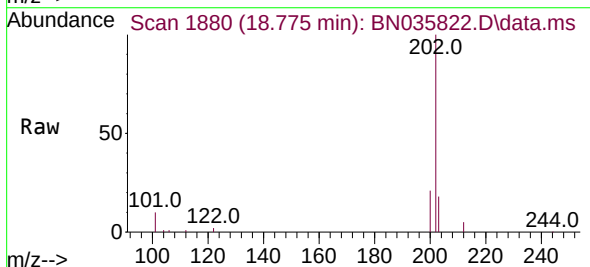
Manual Integrations
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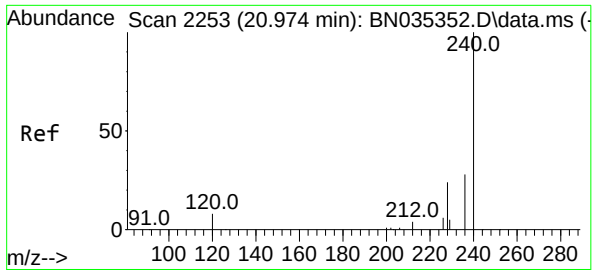
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

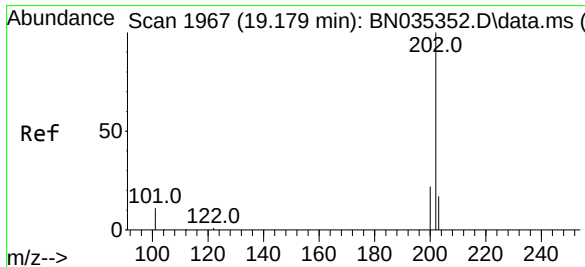
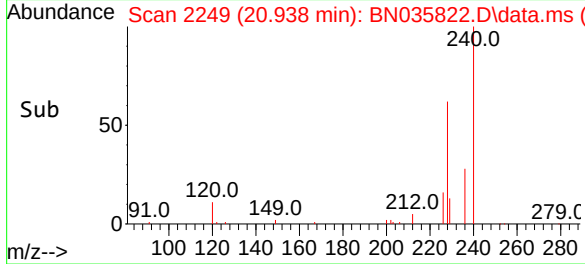
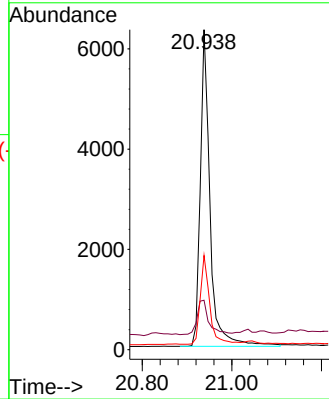
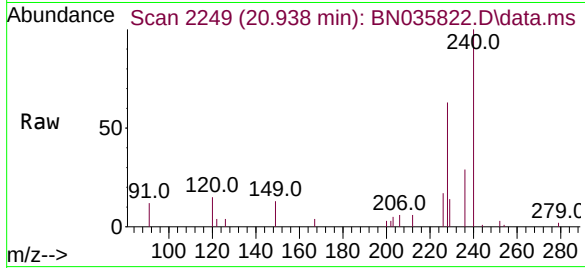
Tgt Ion:	240	Resp:	950
Ion	Ratio	Lower	Upper
240	100		
120	15.4	7.9	11.9
236	29.5	22.9	34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.508 ng

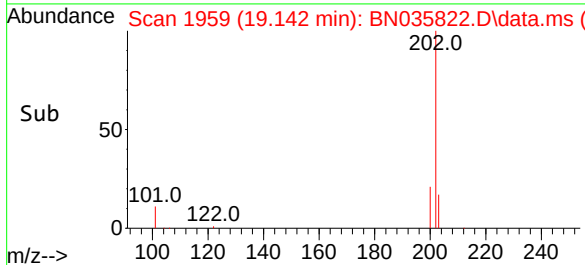
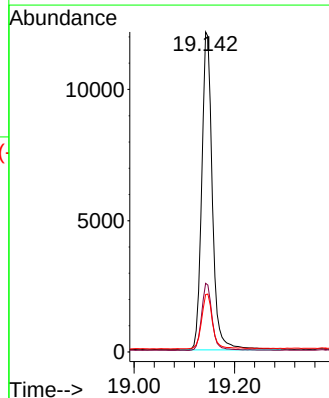
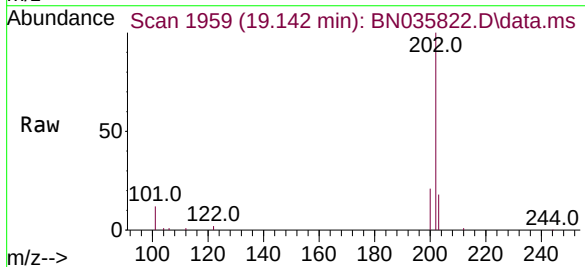
RT: 19.142 min Scan# 1959

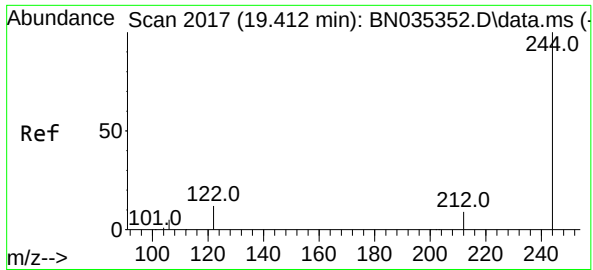
Delta R.T. -0.019 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

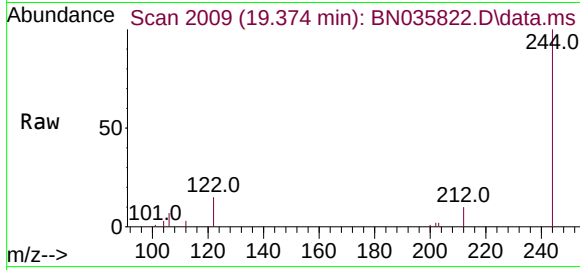
Tgt Ion:	202	Resp:	17829
Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5





#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

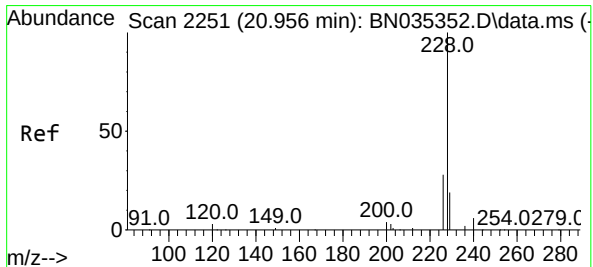
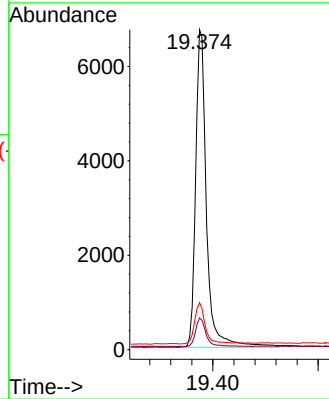
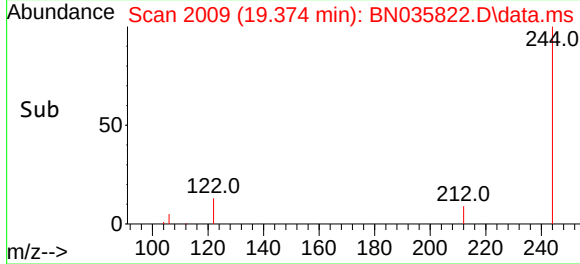
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:244 Resp: 9610
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 14.7 10.3 15.5

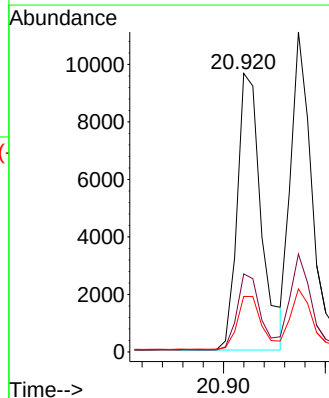
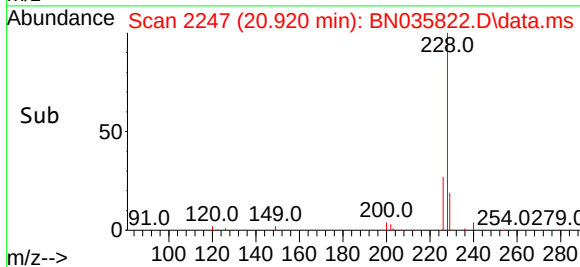
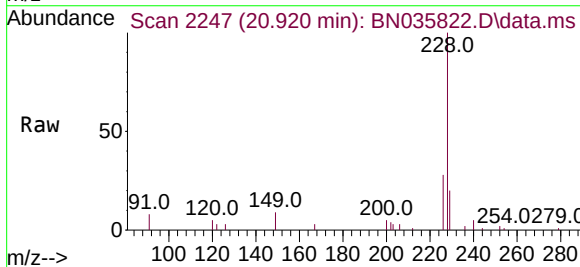
Manual Integrations
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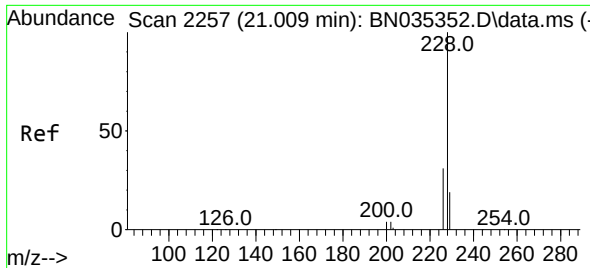
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.494 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

Tgt Ion:228 Resp: 16940

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

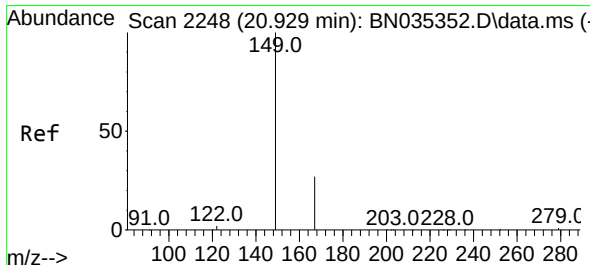
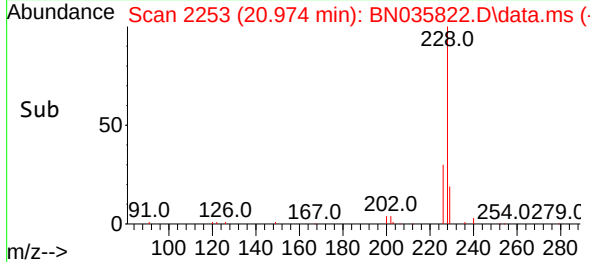
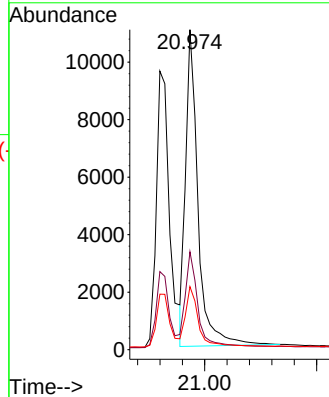
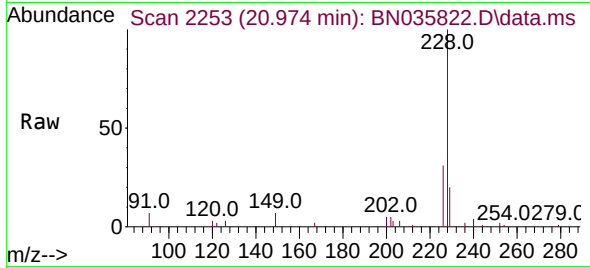
229 19.7 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.524 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

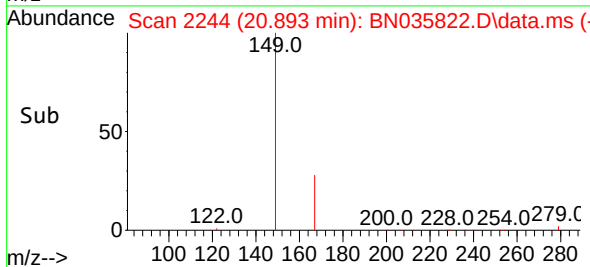
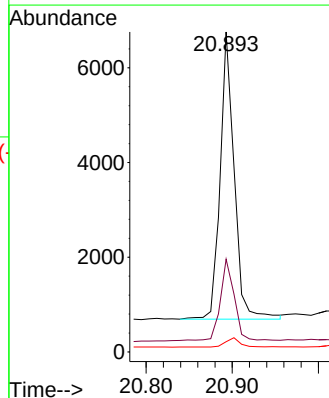
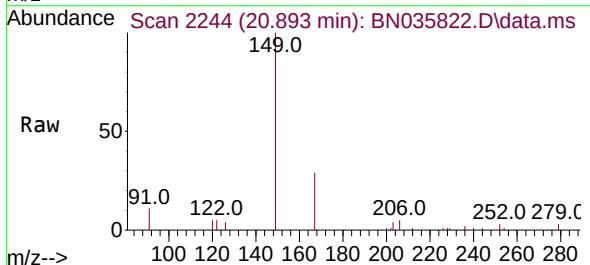
Tgt Ion:149 Resp: 6876

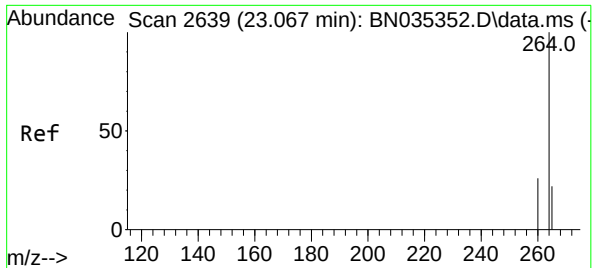
Ion Ratio Lower Upper

149 100

167 27.4 22.2 33.4

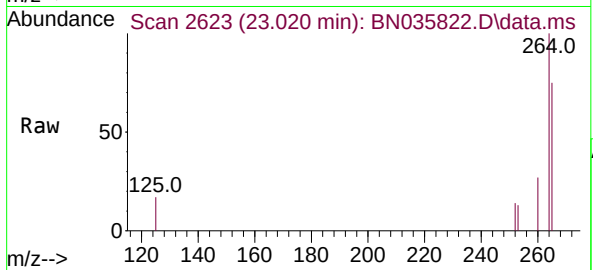
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2623
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

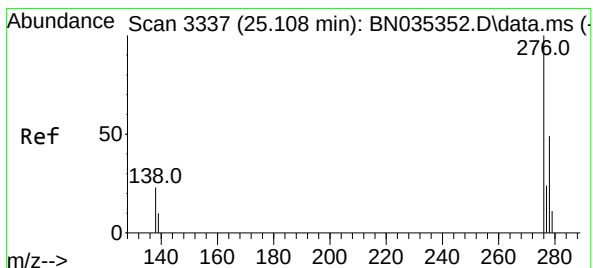
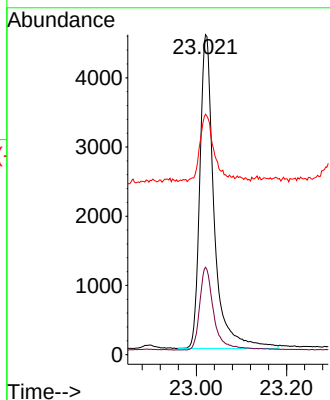
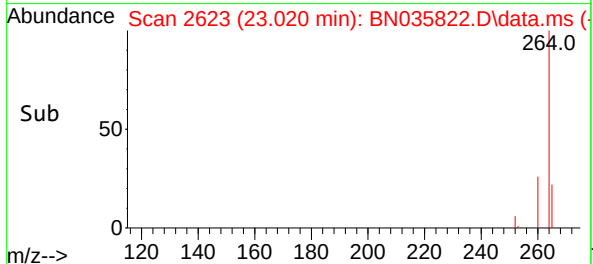
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:264 Resp: 9990
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 75.1 40.2 60.4

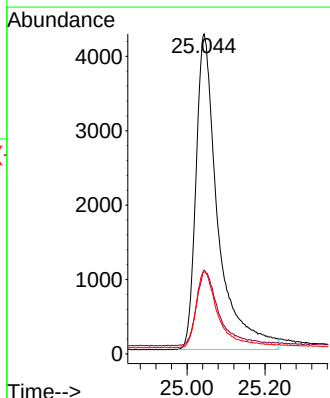
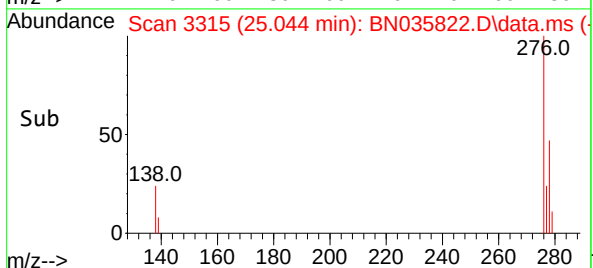
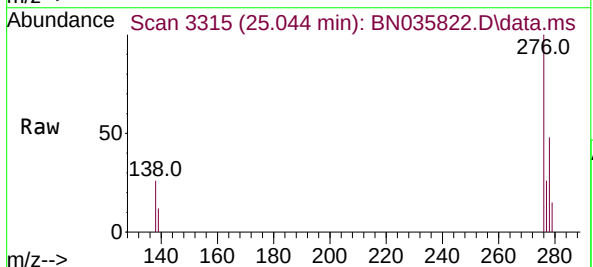
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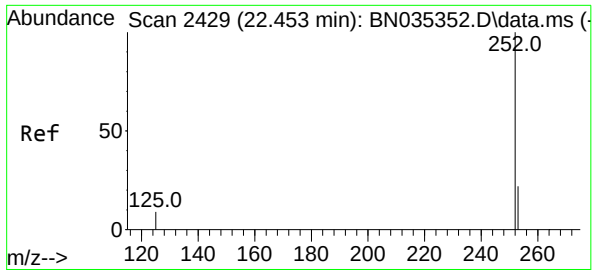
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

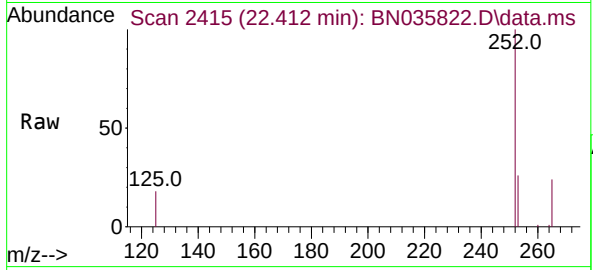
Tgt Ion:276 Resp: 16588
Ion Ratio Lower Upper
276 100
138 23.3 19.4 29.0
277 23.8 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

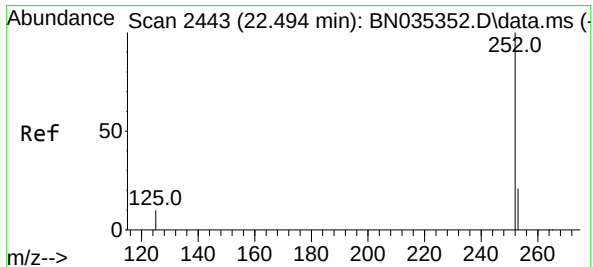
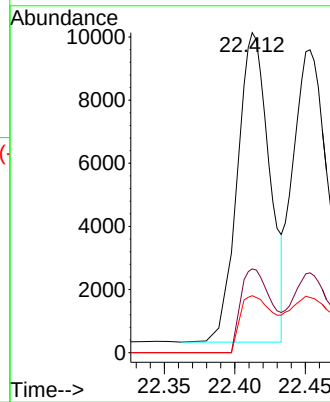
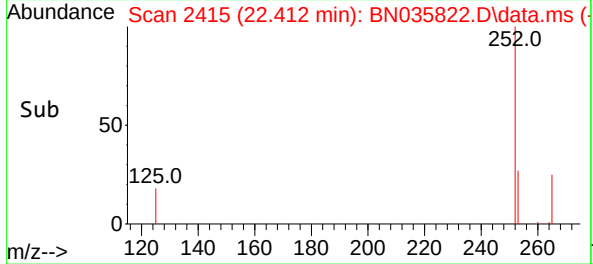
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD



Tgt Ion:252 Resp: 2222
Ion Ratio Lower Upper
252 100
253 26.2 19.6 29.4
125 17.8 9.6 14.4

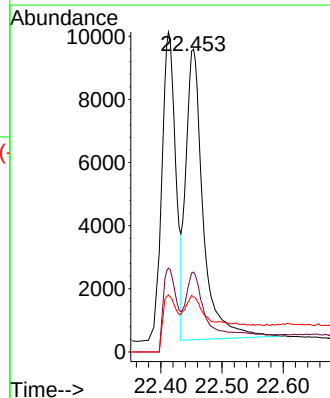
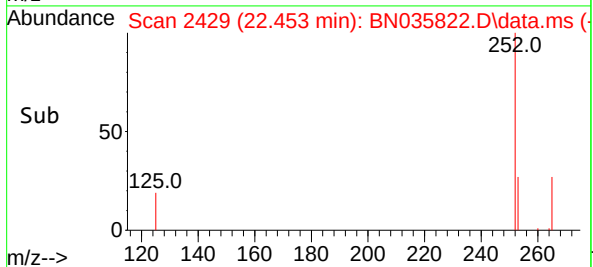
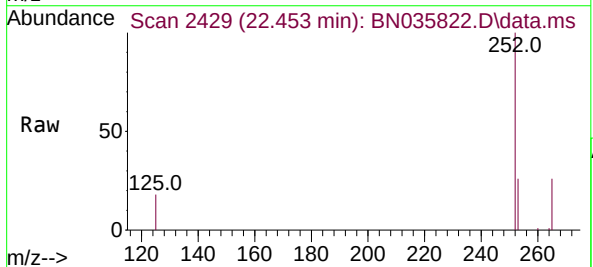
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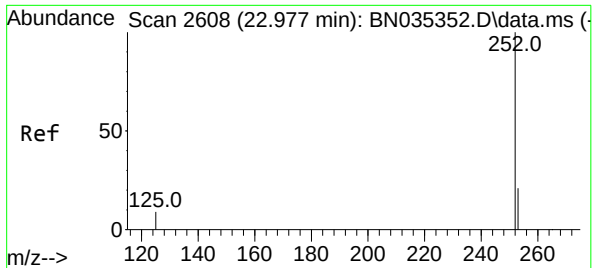
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 18080
Ion Ratio Lower Upper
252 100
253 26.3 19.5 29.3
125 18.2 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.486 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

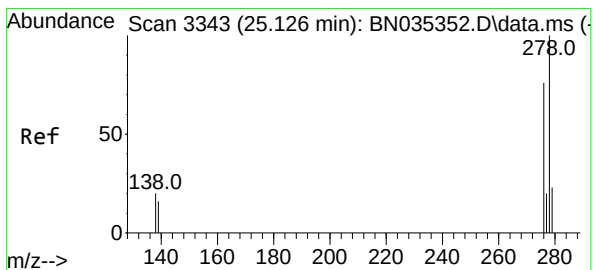
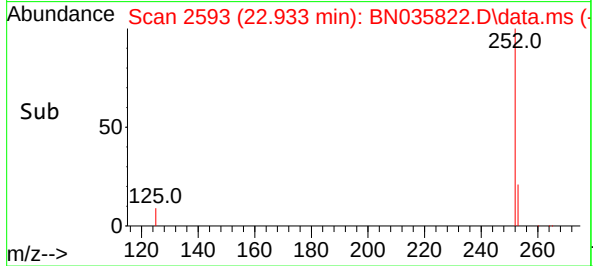
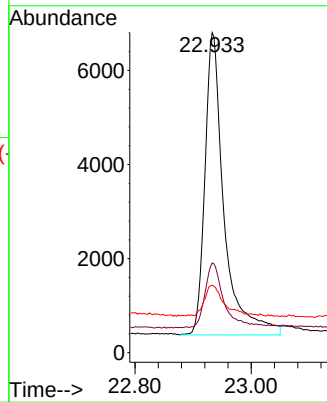
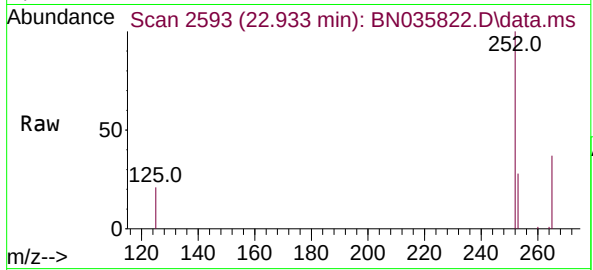
Tgt Ion:	252	Resp:	14639
Ion Ratio	Lower	Upper	
252	100		
253	28.1	20.2	30.4
125	21.1	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.399 ng

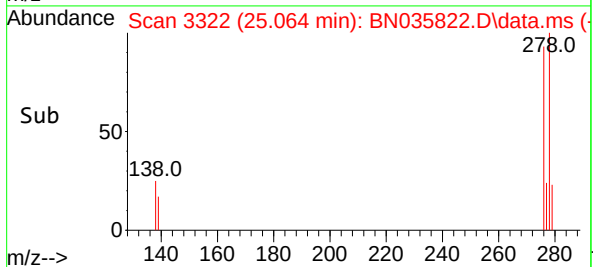
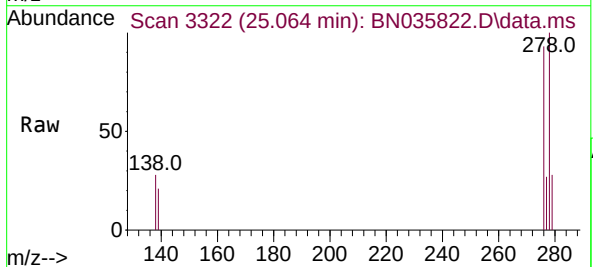
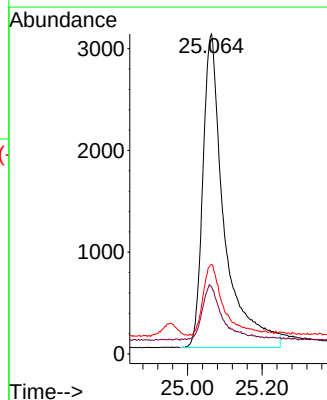
RT: 25.064 min Scan# 3322

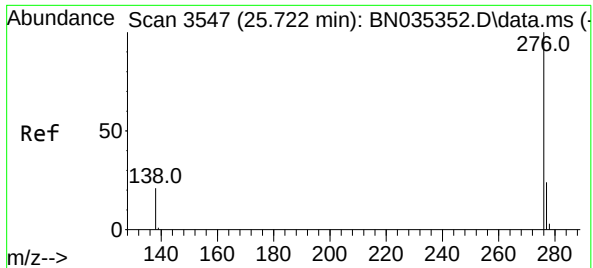
Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Tgt Ion:	278	Resp:	12290
Ion Ratio	Lower	Upper	
278	100		
139	21.1	14.2	21.4
279	28.0	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.423 ng

RT: 25.655 min Scan# 31

Delta R.T. -0.024 min

Lab File: BN035822.D

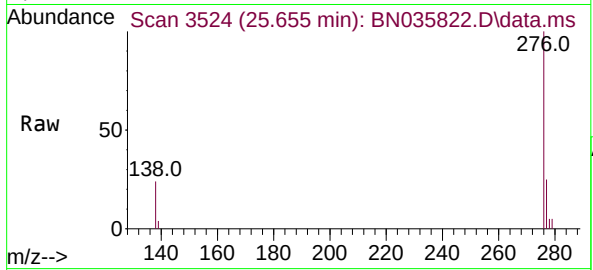
Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD



Tgt Ion:276 Resp: 13609

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

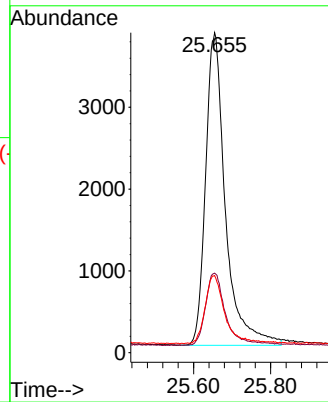
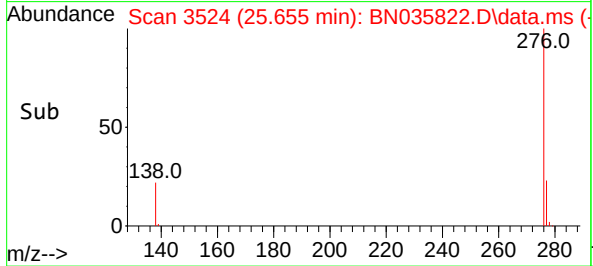
138 24.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2024

Supervised By :mohammad ahmed 12/26/2024



Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n
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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

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n
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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
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
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
PB165828BL	BN035812.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:12 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-02	BN035815.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:16 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-03	BN035816.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:18 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-04	BN035817.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:20 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5376-05	BN035818.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:21 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-05	BN035818.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:21 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-06	BN035819.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:22 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-07	BN035820.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-07	BN035820.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-08MS	BN035821.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:59 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-09MSD	BN035822.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-10	BN035823.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:02 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-11	BN035824.D	Indeno(1,2,3-cd)pyrene	yogesh	12/25/2024 12:19:03 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-11	BN035824.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:03 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-12	BN035825.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:05 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-13	BN035826.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:26 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-14	BN035827.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:28 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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
P5376-16	BN035833.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:34 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-17	BN035834.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:41 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-18	BN035835.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:48 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-20	BN035837.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:59 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
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:

BN122324

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	BN122624	Instrument	BNA_n
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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
P5376-15	BN035847.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:09 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-19	BN035848.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:10 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-01	BN035849.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:12 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
PB165828BS	BN035852.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:31 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-03DL	BN035854.D	Anthracene	yogesh	12/27/2024 3:53:33 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-03DL	BN035854.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:33 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-03DL	BN035854.D	Phenanthrene	yogesh	12/27/2024 3:53:33 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

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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	SSTDIC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDIC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDIC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDIC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDIC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDIC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDIC5.0	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	SSTDIC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDIC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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	Not Ok
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

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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	PB165724BL	BN035846.D	26 Dec 2024 10:35	RC/JU	Ok,NR
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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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 Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6684

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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 Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6682,1ul/100ul sample SP6684		

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-20241211	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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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 Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6682,1ul/100ul sample SP6684		

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	TT1741I-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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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 Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6682,1ul/100ul sample SP6684

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	Not Ok
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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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	PB165724BL	PB165724BL	BN035846.D	26 Dec 2024 10:35		RC/JU	Ok,NR
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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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

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 Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date: 12/23/2024

Extraction Start Time: 13:29

Extraction End Date: 12/23/2024

Extraction End Time: 18:25

Concentration By: EH

Supervisor By: rajesh

Standardized 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
12/23/24	RP (Eft 2ceb)	Relsvoc
18:30	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/23/2024

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165828BL	SBLK828	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-1
PB165828BS	SLCS828	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
P5374-03	BP-VPB-190A-GW-718-72 0	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		3
P5376-01	TT205S1-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		4
P5376-02	TT150S1-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5
P5376-03	RE115D2-20241218	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		6
P5376-04	TT149S1-20241218	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		7
P5376-05	DUP-07-20241218	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		8
P5376-06	TT174I1-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		9
P5376-07	RW10-MW01S-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		10
P5376-08	P5376-07MS	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		11
P5376-09	P5376-07MSD	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		12
P5376-10	RW10-MW01D-20241218	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		13
P5376-11	RW10A-MW01S-2024121 8	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		14
P5376-12	RW10A-MW01I-20241218	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		15
P5376-13	RE117D2-20241218	SVOC-SIMGrou p1	960	6	RUPESH	rajesh	1	C		16
P5376-14	TT161S1-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		17
P5376-15	TT162S1-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		18
P5376-16	RW11-MW01S-20241219	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		SEP-1
P5376-17	RW11-MW01I-20241219	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		2
P5376-18	TT119S1-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		3
P5376-19	TT188S1-20241219	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		4
P5376-20	FB03-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5

* Extracts relinquished on the same date as received.

8
12/23/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p5376

WorkList ID : 186576

Department : Extraction

Date : 12-23-2024 13:27:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5374-03	BP-VPB-190A-GW-718-720	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N31	12/18/2024	8270-Modified
P5376-01	TT205S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-02	TT150S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-03	RE115D2-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-04	TT149S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-05	DUP-07-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-06	TT174I1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-07	RW10-MW01S-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-08	P5376-07MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-09	P5376-07MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-10	RW10-MW01D-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-11	RW10A-MW01S-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-12	RW10A-MW01I-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-13	RE117D2-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-14	TT161S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-15	TT162S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-16	RW11-MW01S-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-17	RW11-MW01I-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-18	TT119S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-19	TT188S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-20	FB03-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified

Date/Time 12/23/24 13:25

Raw Sample Received by: As (let 24) JDCSM

Raw Sample Relinquished by: As (let 24) JDCSM

Date/Time 12/23/24

Raw Sample Received by: JDCSM

Raw Sample Relinquished by: As (let 24)

Prep Standard - Chemical Standard Summary

Order ID : P5376

Test : SVOC-SIMGroup1

Prepbatch ID : PB165828,

Sequence ID/Qc Batch ID: BN122324,bn122624,

Standard ID :

EP2559,EP2565,EP2571,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11792,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024
<u>FROM</u>	1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024
<u>FROM</u> 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml								

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2571	12/11/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	Yogesh Patel 12/16/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 09/11/2024
<u>FROM</u>	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							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel
10/14/2024								
<u>FROM</u> 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024
<u>FROM</u>	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							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024
<u>FROM</u> 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE 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								
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								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								
FROM								

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)	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

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

CHEMICAL RECEIPT LOG BOOK

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

CHEMICAL RECEIPT LOG BOOK

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]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105
[CS 4978-2]						

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 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, CH ₂ Cl ₂ , 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, CH ₂ Cl ₂ , 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

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, CH ₂ Cl ₂ , 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]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

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]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

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-d ₆	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

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 gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Shelf S11096
to
S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

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

Brianna Smith

Certified By: _____

Brianna 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 gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
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
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 gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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
03/10/22
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 Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL 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:

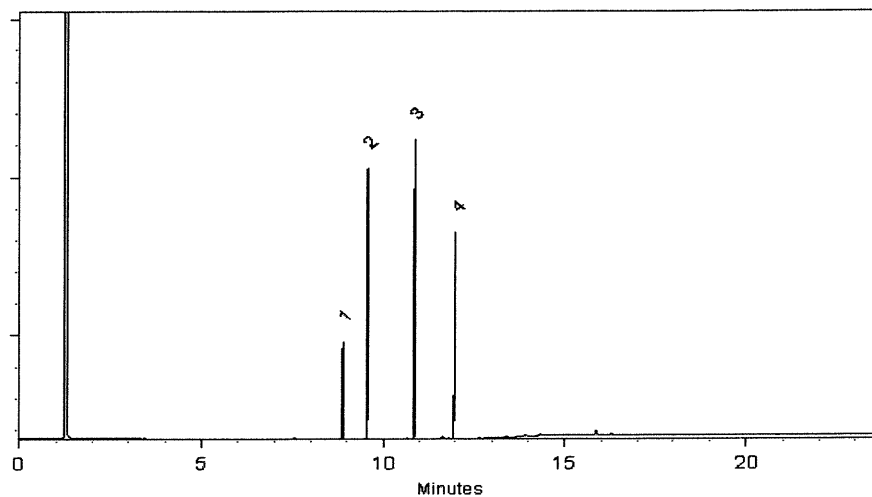
250°C

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

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



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
02/08/23

b1

CG

S 11071

to

S 11075

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 CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 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:

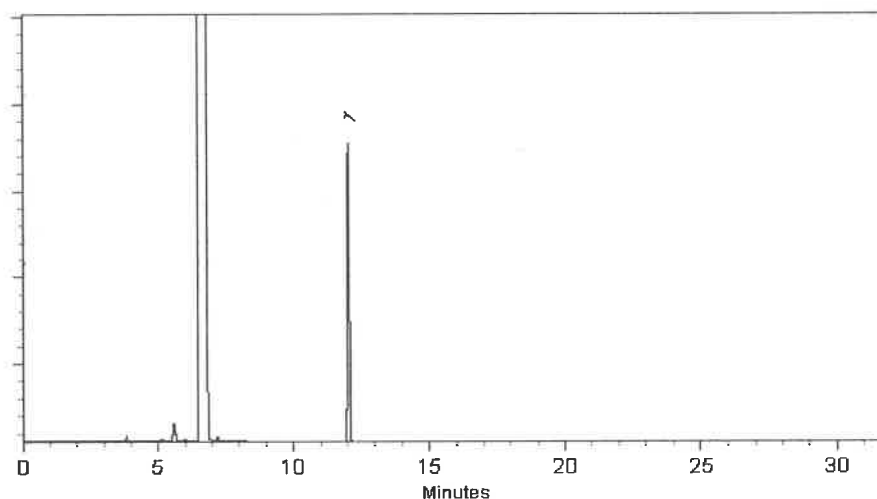
200°C

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

Received on
01/13/23
by
CG
S11011
+0
S11015

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

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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
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MONTERREY, S.A. DE C.V.**

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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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO 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 foreign 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 R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



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:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

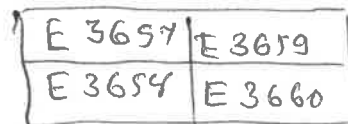
This document has been electronically produced and is valid without a signature.

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.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



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) ₂ CO) (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
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 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
Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



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) ₂ CO) (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
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 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

J. Croak

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**™



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)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	$< 0.01 \%$

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



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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

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

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

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


Jamie Ethier
Vice President Global Quality



5580 Skyline 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

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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. : 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:

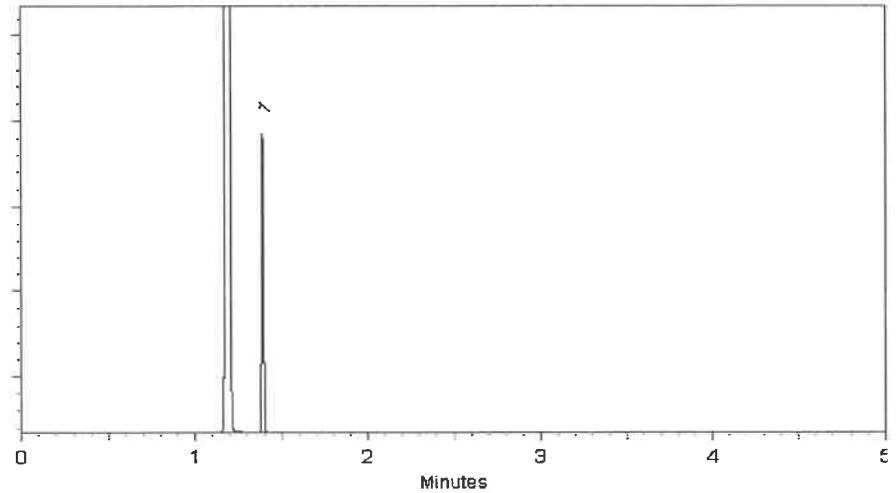
FID

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
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
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

S11828
↓
S11832 } RC/
11/30/23

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:

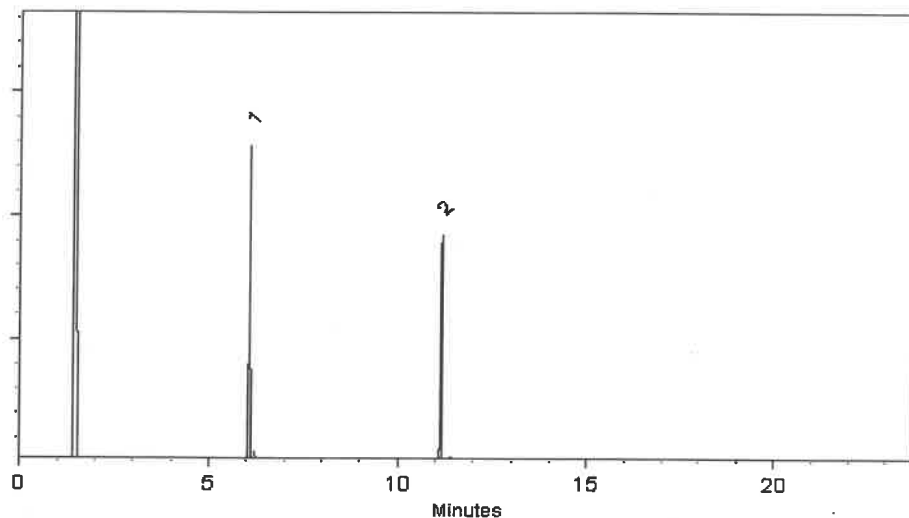
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

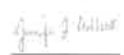


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

912075 } RC
↓
912079 } 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 gravimetrically.



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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

912075 } RC
↓
912079 } 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 gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 Lot No.: A0207706
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 : February 28, 2026 Storage: 10°C or colder
Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

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%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-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

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

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 gravimetrically.



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



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

512117 } RC/
↓ 03/18/24
512146 }

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	BCKK0887	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%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

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	BCKK0887	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%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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

512187 } RC/
↓ } 03/18/24
512206 }

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:

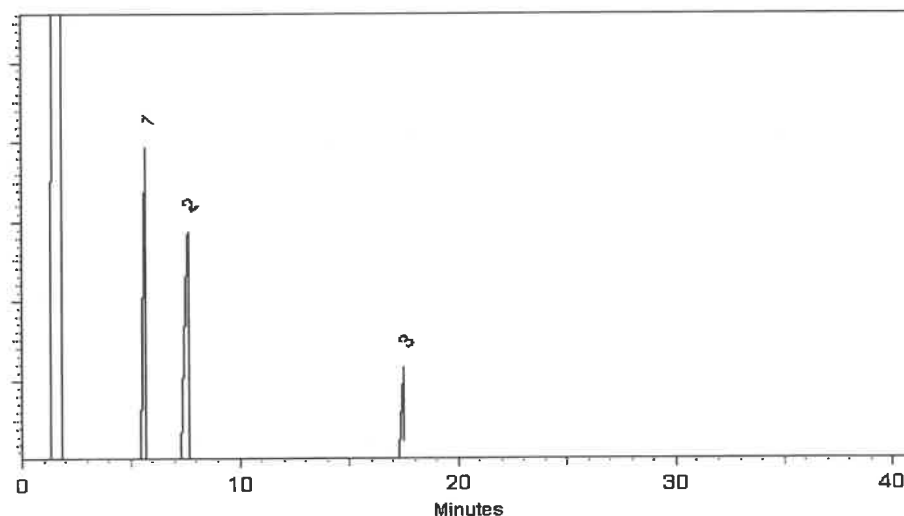
FID

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 S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

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



110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (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:

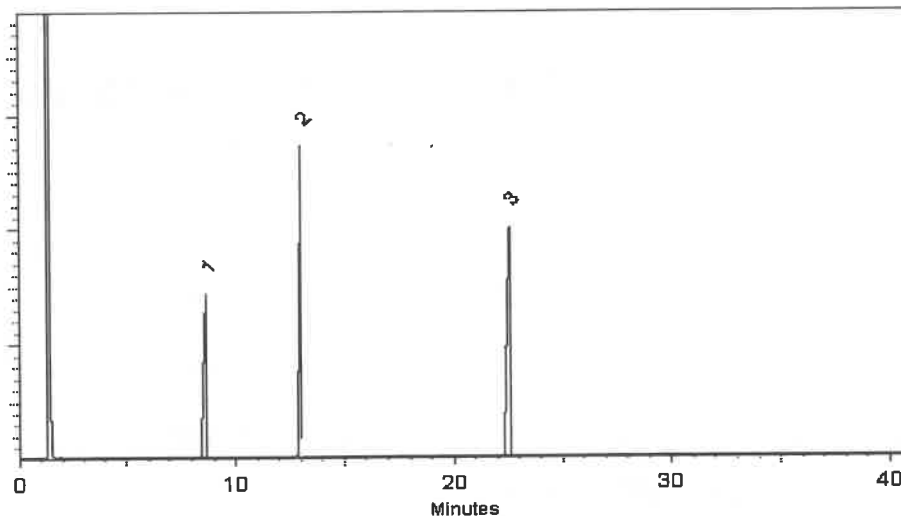
FID

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (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:

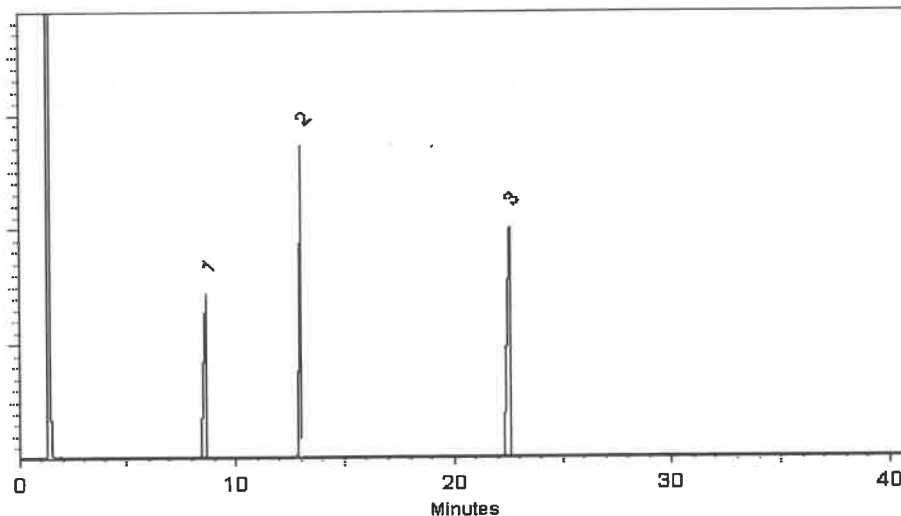
FID

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



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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.:** 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

S12312 } RC/
↓ 05/30/24
S12331

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:

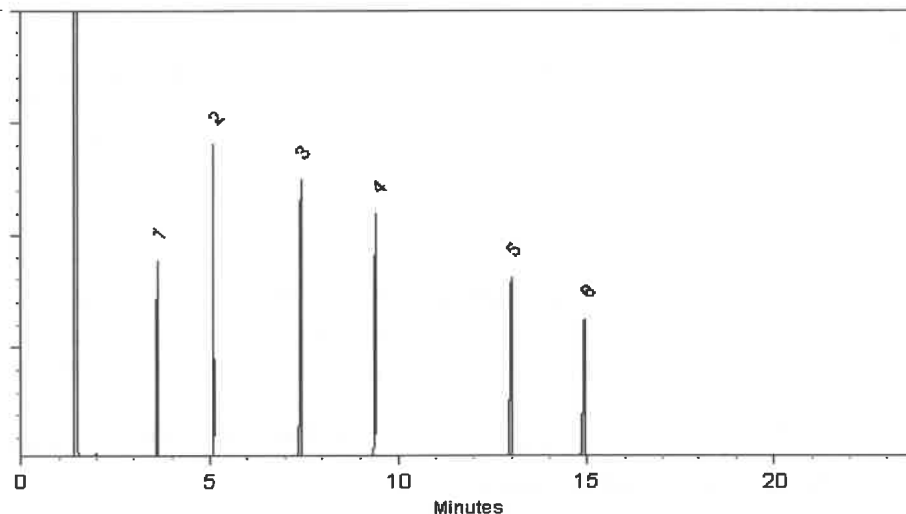
FID

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
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
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



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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

S12312 } RC/
↓ 05/30/24
S12331

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:

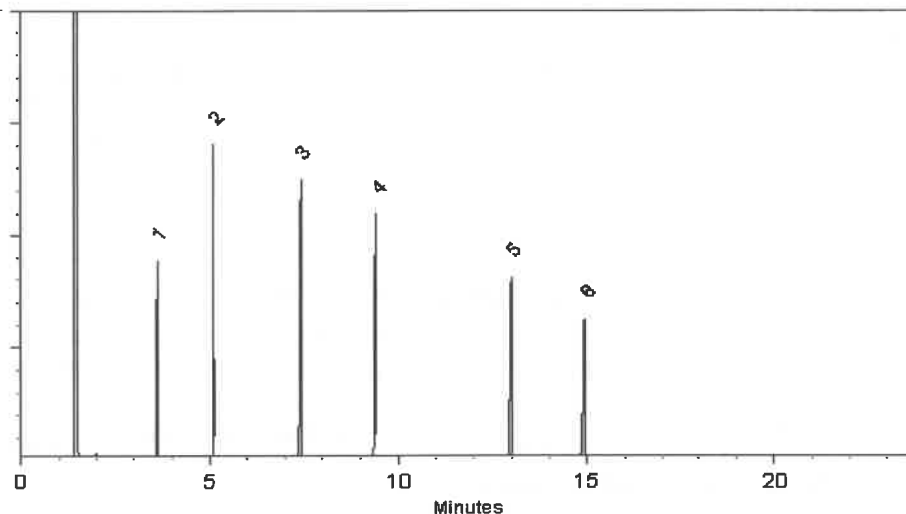
FID

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
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
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



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } RC/
↓
S12508 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } RC/
↓
S12508 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } RC/
↓
S12568 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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. **P5376**
QUOTE NO.
COC Number **2041990**

CLIENT INFORMATION

COMPANY: **REPORT TO BE SENT TO: RESOLUTION**
ADDRESS:
CITY STATE ZIP:
ATTENTION: **ELEANOR VIVAUDOU**
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **RESOLUTION BETHPAGE**
PROJECT NO.: **60731B72** LOCATION: **BETHPAGE**
PROJECT MANAGER: **E. VIVAUDOU**
e-mail: **ELEANOR.VIVAUDOU@AECOM.COM**
PHONE: FAX:

CLIENT BILLING INFORMATION

TO: **E. VIVAUDOU** PO#:
ADDRESS: **27 ELLIS PLACE**
CITY **OSSINING** STATE: **NY** ZIP: **10563**
ATTENTION: **E. VIVAUDOU** PHONE:

ANALYSIS

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 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
EDD FORMAT: **MS/DEC EDD CAT B**

VOL 8260
1/4 DOKANE SIM
8270

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									← Specify Preservatives		
			COMP	GRAB	DATE	TIME		A/E	E									A-HCl	D-NaOH
								1	2	3	4	5	6	7	8	9	B-HNO3	E-ICE	
																		C-H2SO4	F-OTHER
1.	TT205S1- 2024/12/18	6W		X	12/18/24	0820	3	2	1										
2.	TT150S1- 2024/12/18	6W		X		1000	3	2	1										
3.	RE115D2- 2024/12/18	6W		X		1010	3	2	1										
4.	TT149S1- 2024/12/18	6W		X		0855	3	2	1										
5.	DUP-07- 2024/12/18	6W		X		-	3	2	1										
6.	TT174I1- 2024/12/18	6W		X		1215	3	2	1										
7.	RW10-MW01S- 2024/12/18	6W		X		0920	9	6	3										MS/MSD
8.	RW10-MW01D- 2024/12/18	6W		X		0925	3	2	1										
9.	RW10A-MW01S- 2024/12/18	6W		X		1105	3	2	1										
10.	RW10A-MW01I- 2024/12/18	6W		X		1045	3	2	1										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT	COOLER TEMP: 3.0°C
1. [Signature]	12-20-24	1. [Signature]	Comments:	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2. [Signature]		2. [Signature]		
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
3. [Signature]	12-20-2024	3. [Signature]		

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

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.

COC Number 2041991

P5376

CLIENT INFORMATION

COMPANY: RESOLUTION
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION:
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@ARCOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSISING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

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 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
EDD FORMAT NYS DEC EDD CAT B

WGS 8260
14 DIAPYCNES SIM
8270

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	RE117D2-2024/12/18	GW		X	12/18/24	1200	3	2	1								
2.	TT161S1-2024/12/19	GW		X	12/19/24	0850	3	2	1								
3.	TT162S1-2024/12/19	GW		X		1015	3	2	1								
4.	RW11-MW01S-2024/12/19	GW		X		0850	3	2	1								
5.	RW11-MW01I-2024/12/19	GW		X		0847	3	2	1								
6.	TT119S1-2024/12/19	GW		X		0835	3	2	1								
7.	TT188S1-2024/12/19	GW		X		0950	3	2	1								
8.	FB03-2024/12/19	DW		X		1100	3	2	1								
9.	TB	DW		X	10/5/24	-	2	2									
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>3.0°C</u>
1. <u>[Signature]</u>	<u>12-20-24</u>	1. <u>[Signature]</u>	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. <u>[Signature]</u>		2. <u>[Signature]</u>	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. <u>[Signature]</u>	<u>12-20-2024</u>	3. <u>[Signature]</u>	

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



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

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

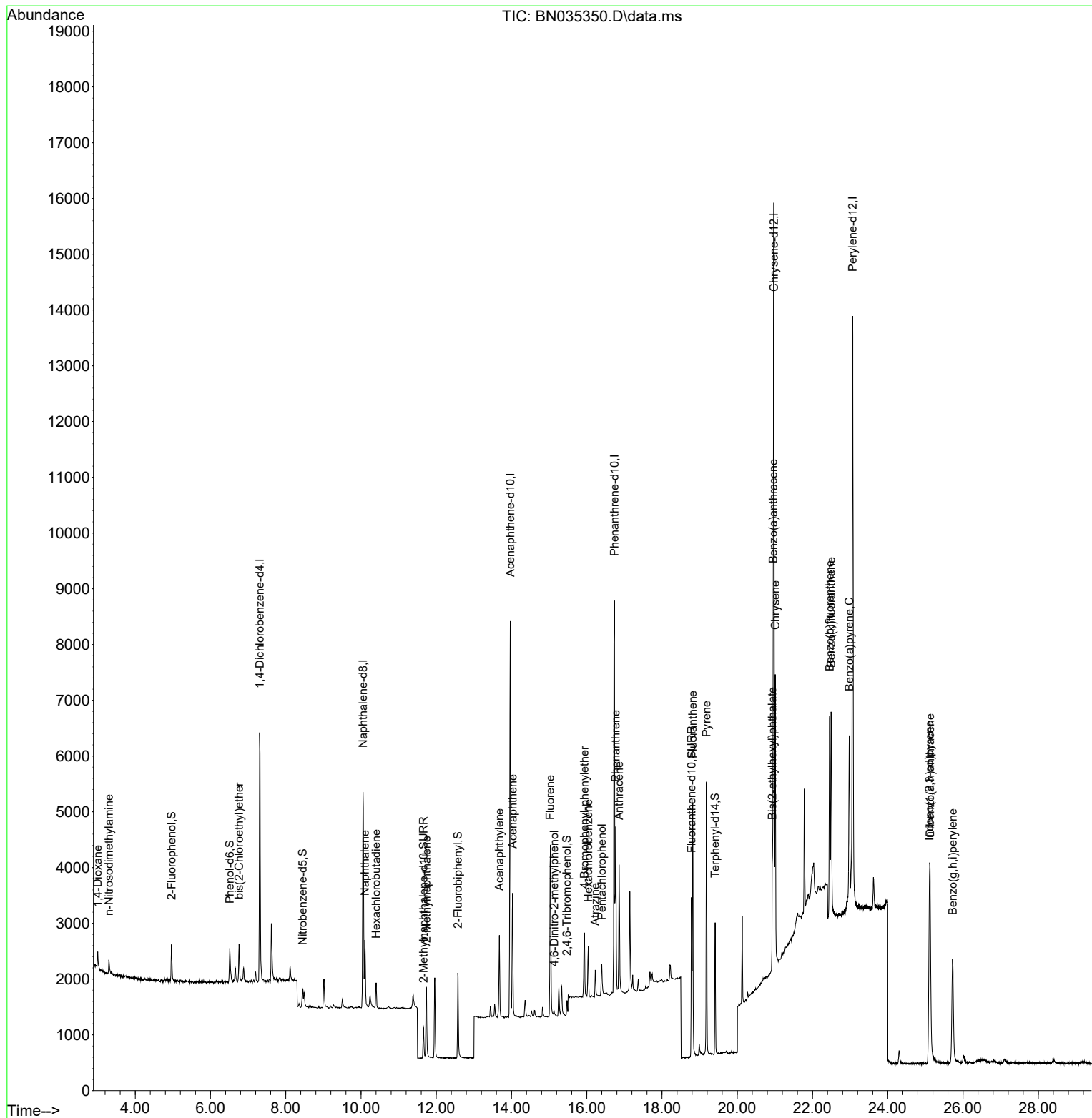
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	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						
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

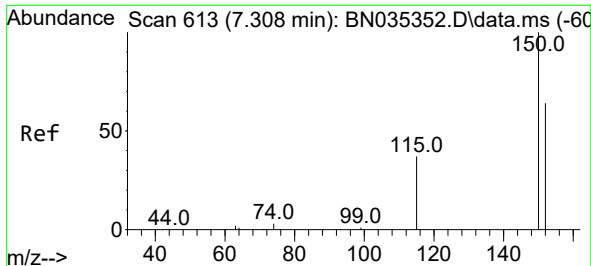
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

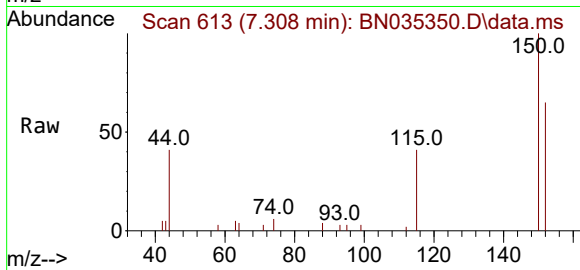
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



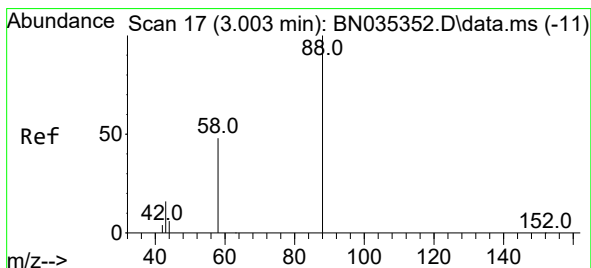
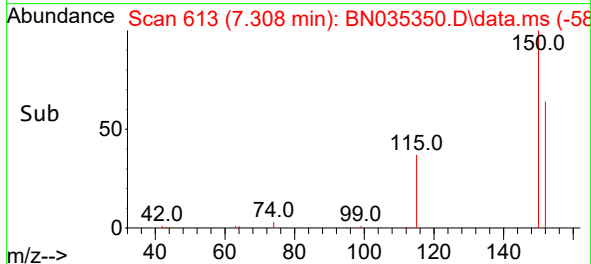
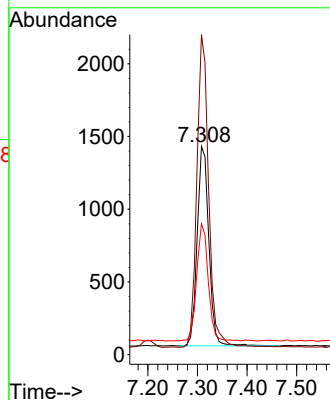


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

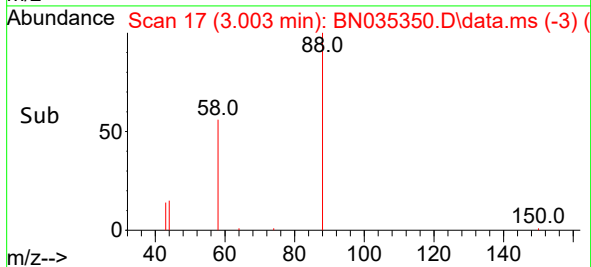
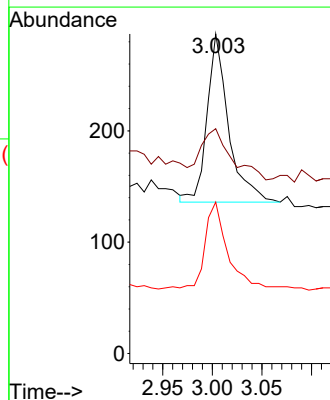
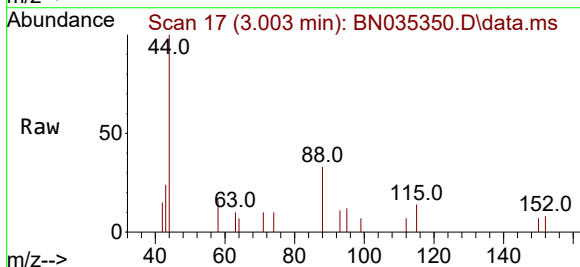


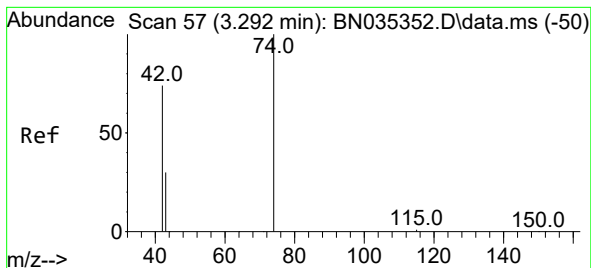
Tgt Ion:152 Resp: 2237
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4



#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# 51

Delta R.T. 0.007 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

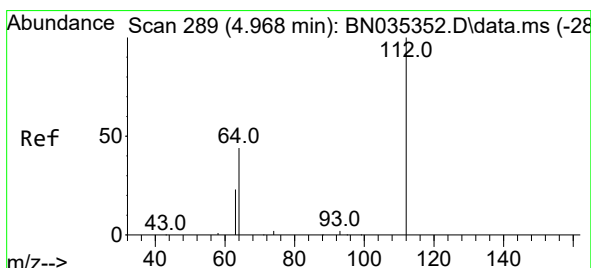
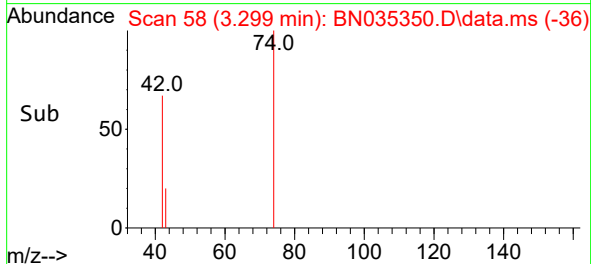
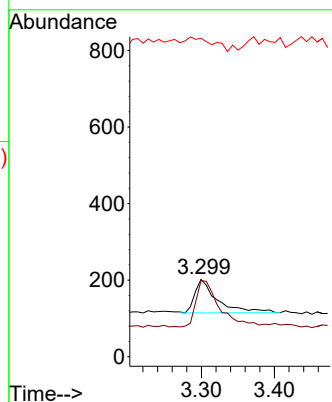
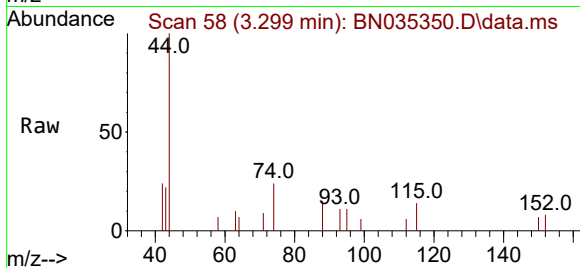
Tgt Ion: 42 Resp: 187

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

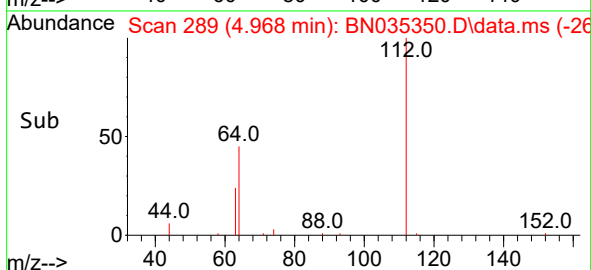
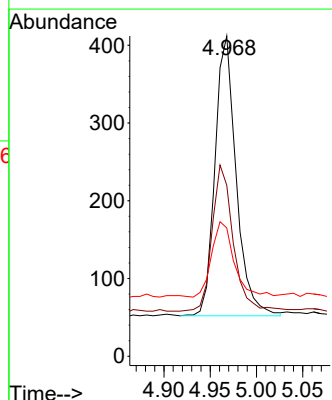
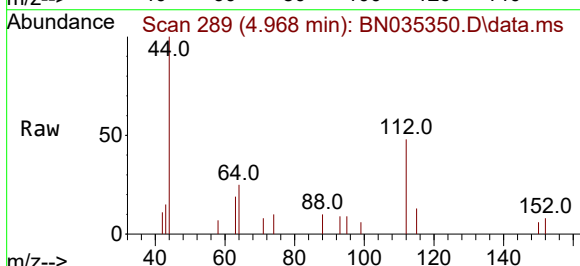
Tgt Ion: 112 Resp: 573

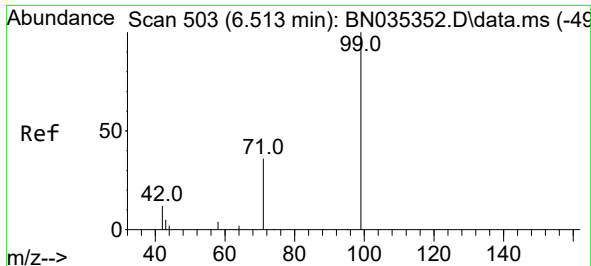
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6

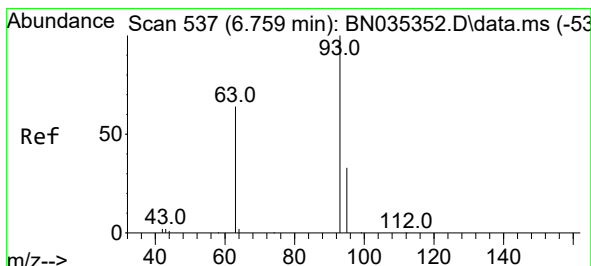
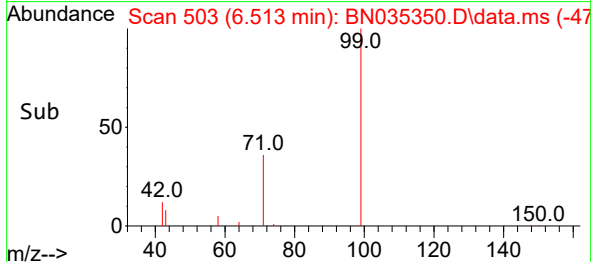
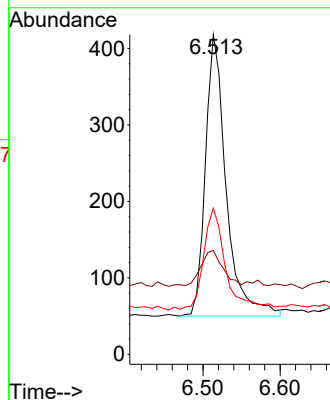
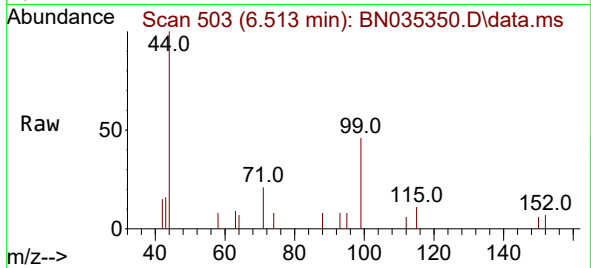




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

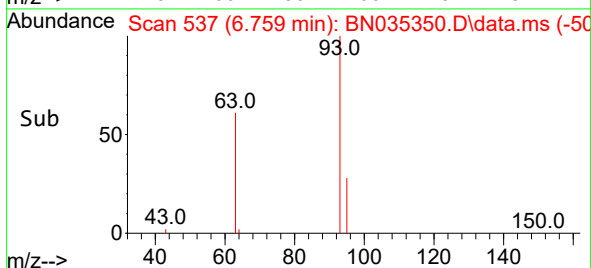
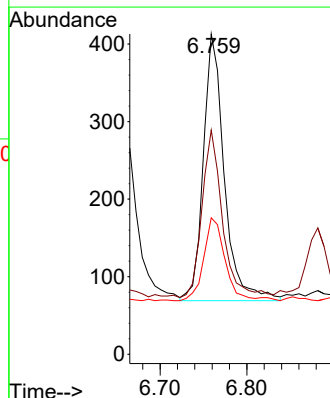
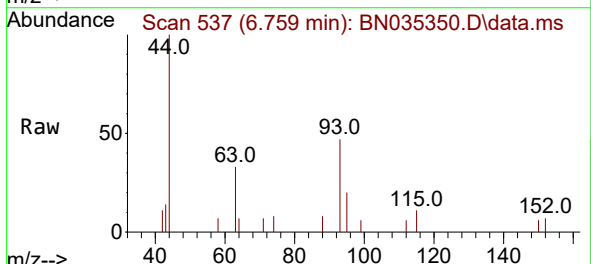
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

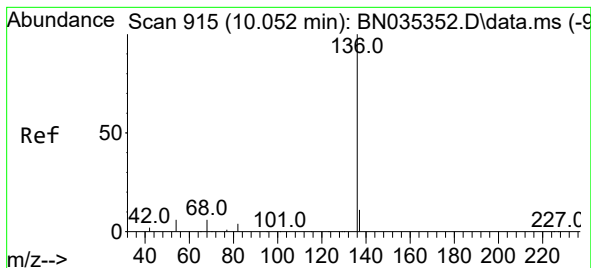
Tgt Ion: 99 Resp: 686
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9



#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# 915

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

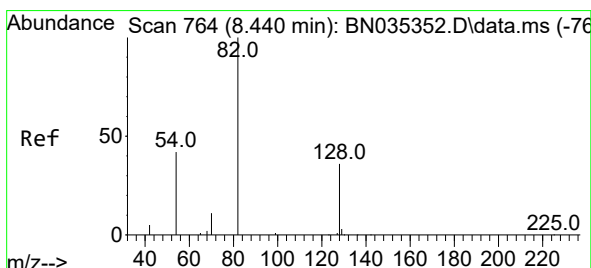
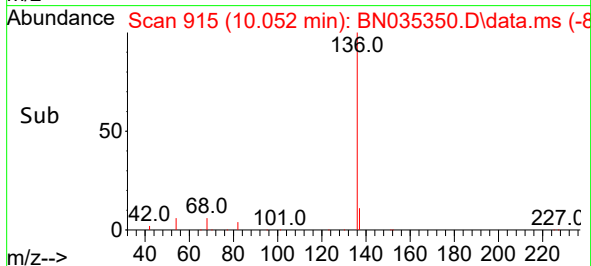
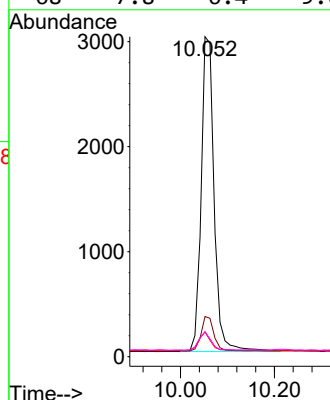
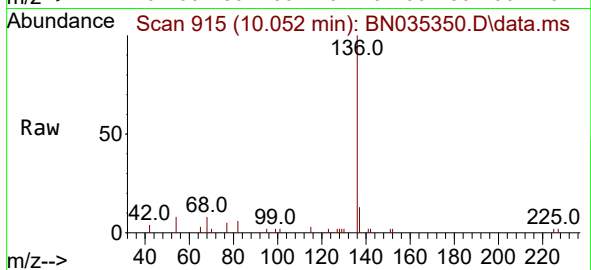
Ion Ratio Lower Upper

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

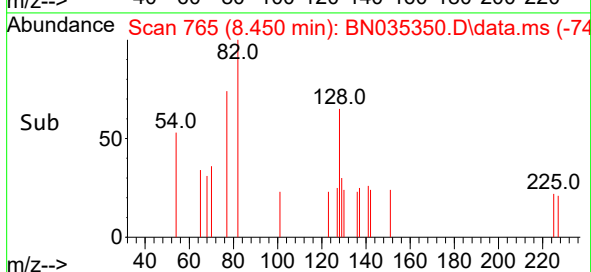
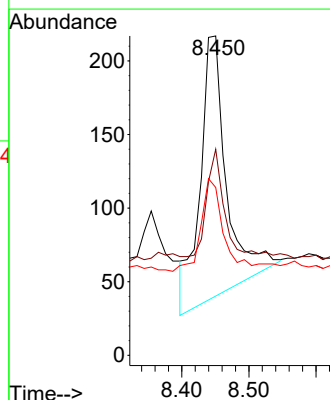
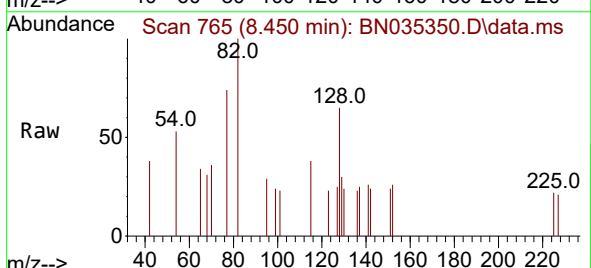
Tgt Ion: 82 Resp: 492

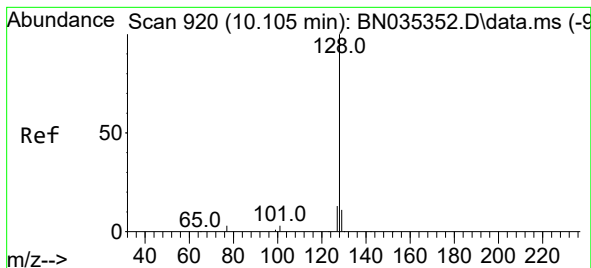
Ion Ratio Lower Upper

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# 91

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

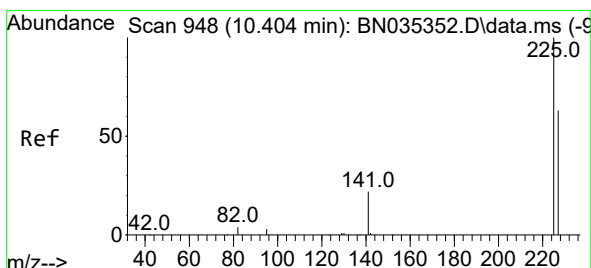
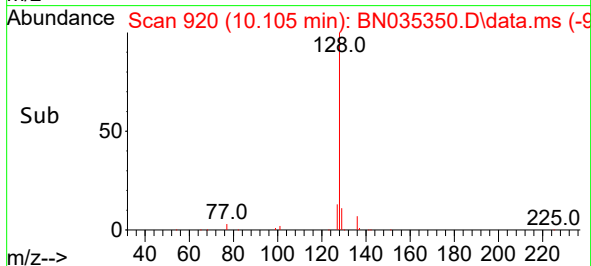
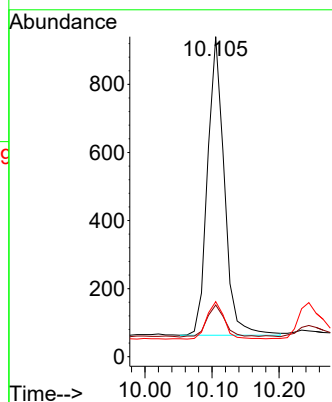
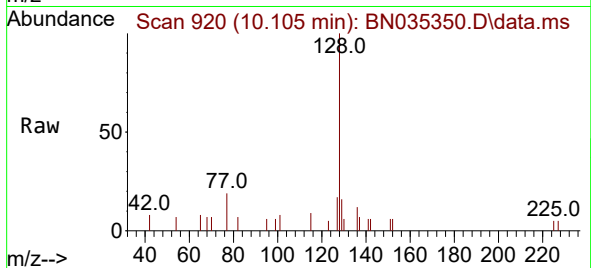
Tgt Ion:128 Resp: 1527

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

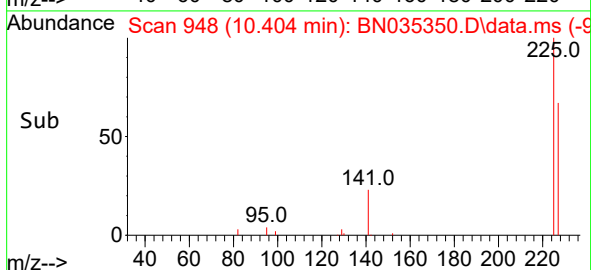
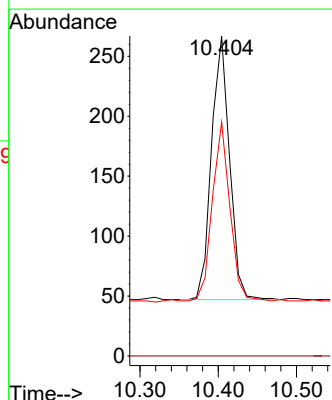
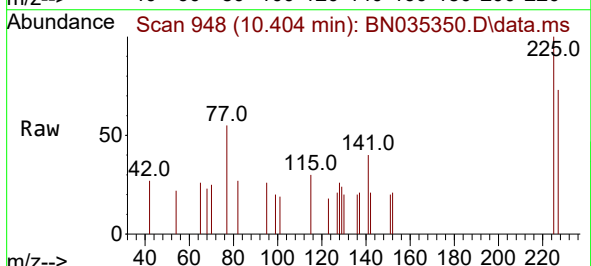
Tgt Ion:225 Resp: 352

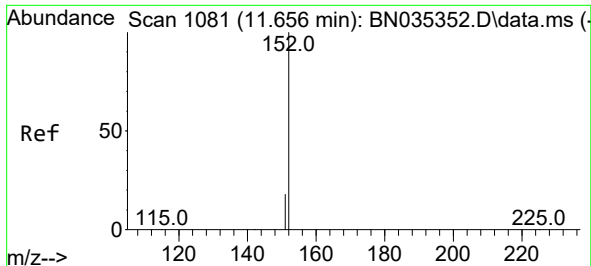
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 66.2 51.3 76.9

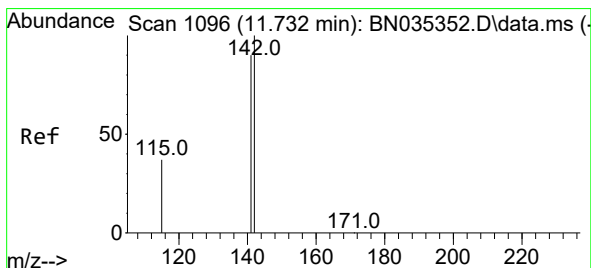
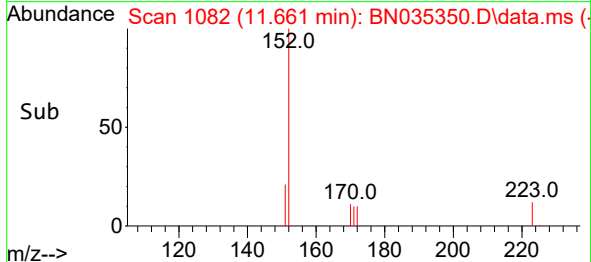
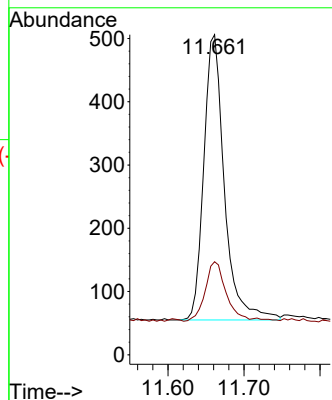
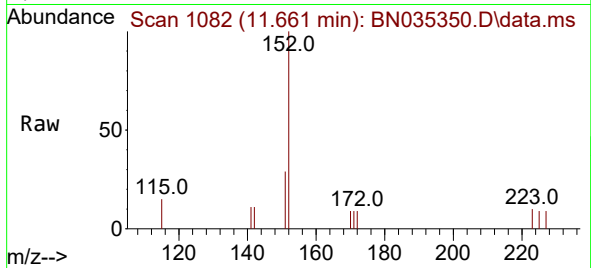




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

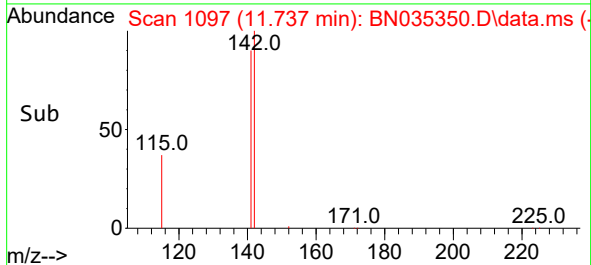
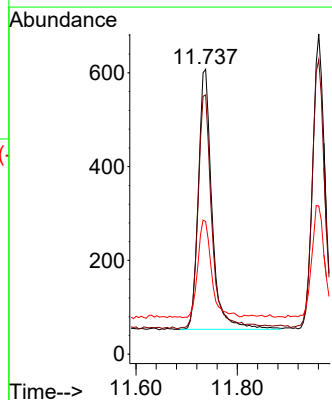
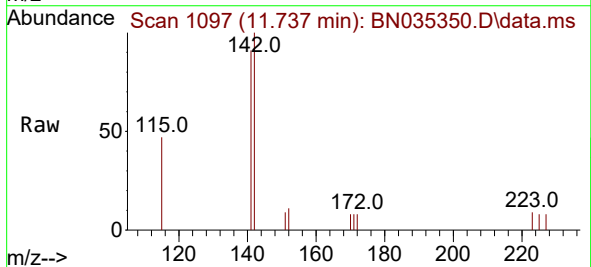
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

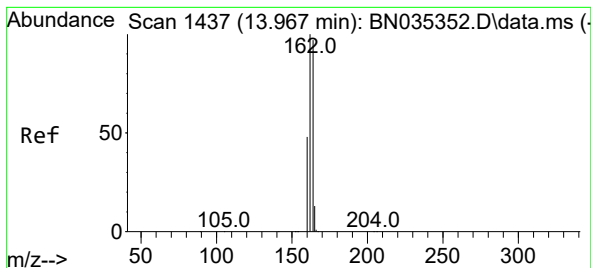
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#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

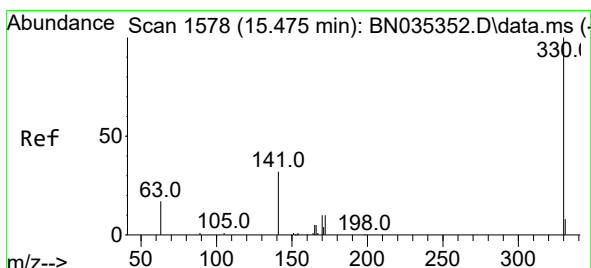
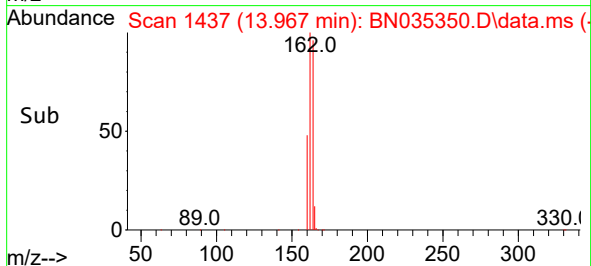
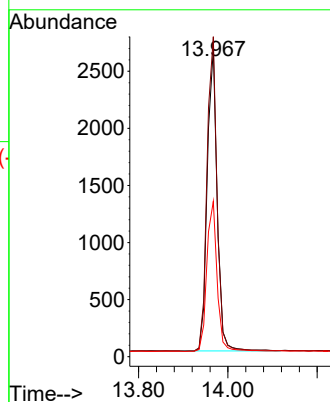
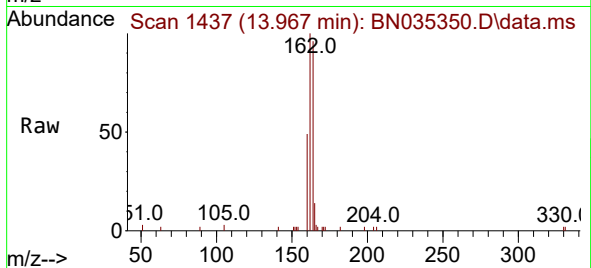
Tgt Ion:164 Resp: 4077

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

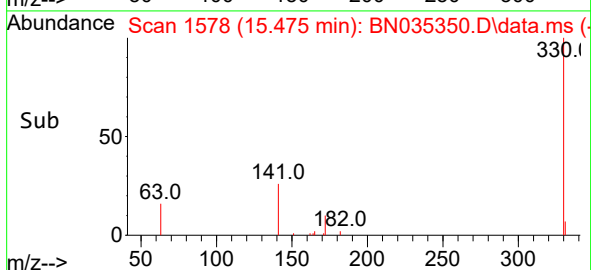
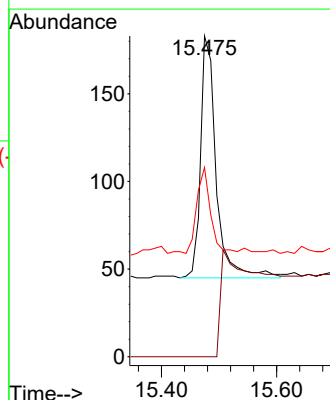
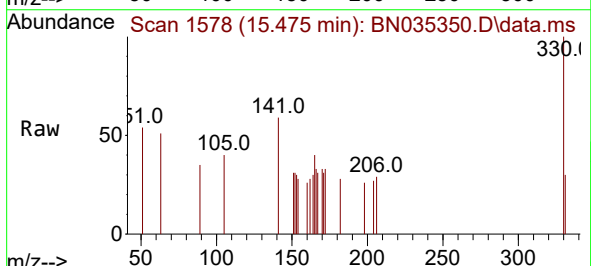
Tgt Ion:330 Resp: 278

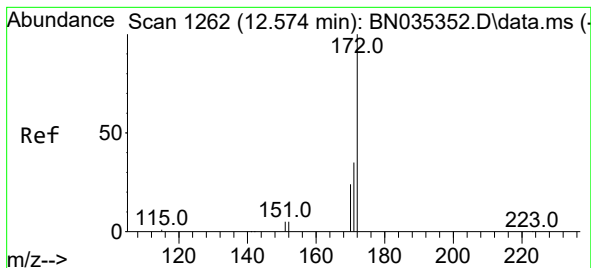
Ion Ratio Lower Upper

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

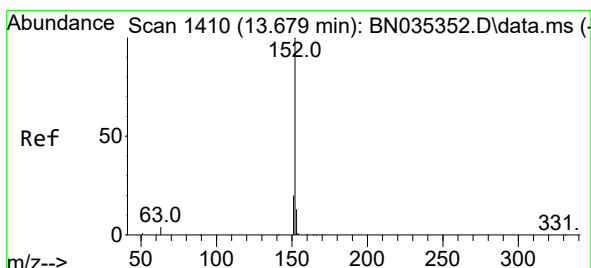
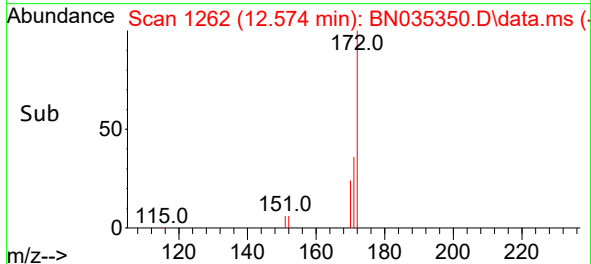
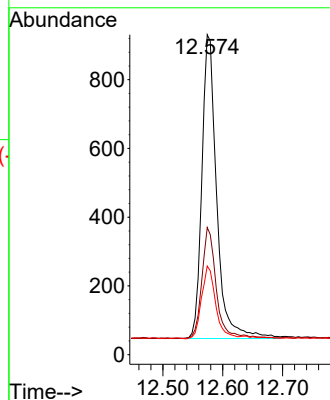
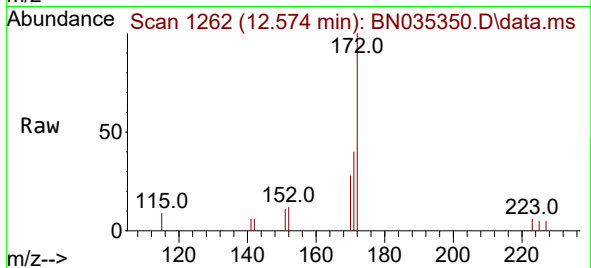
Tgt Ion:172 Resp: 1518

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

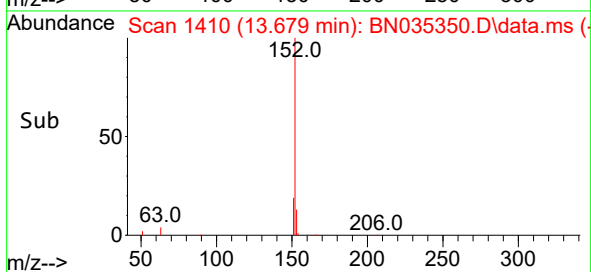
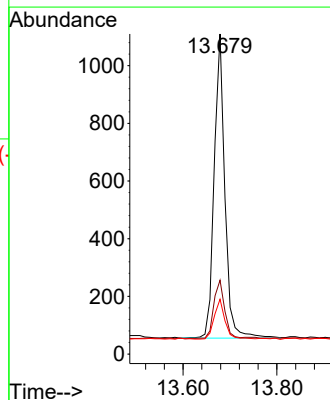
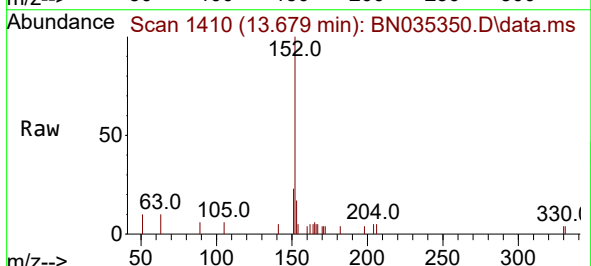
Tgt Ion:152 Resp: 1675

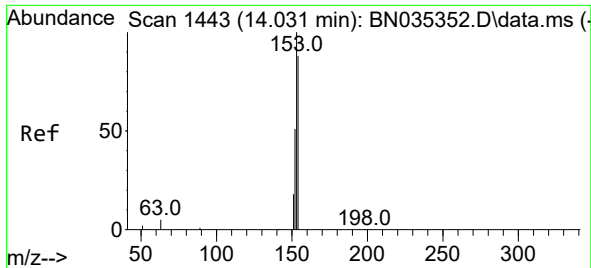
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.1 10.4 15.6

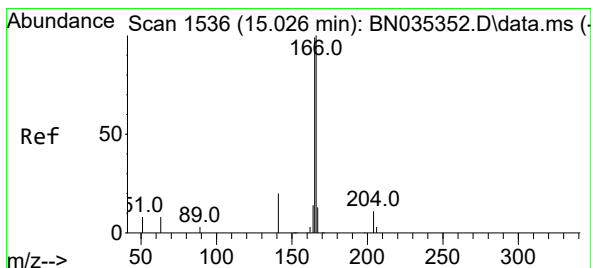
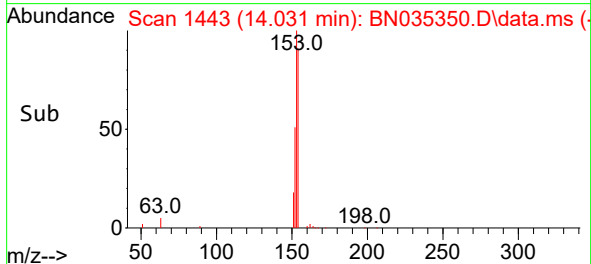
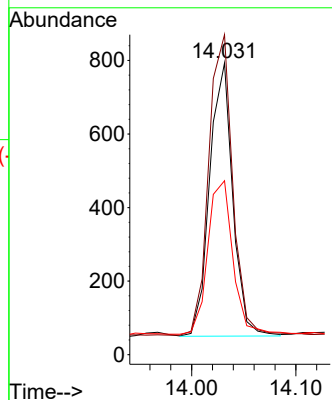
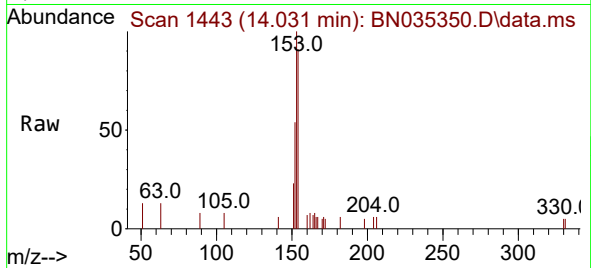




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

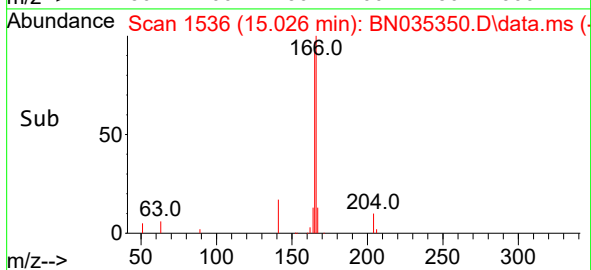
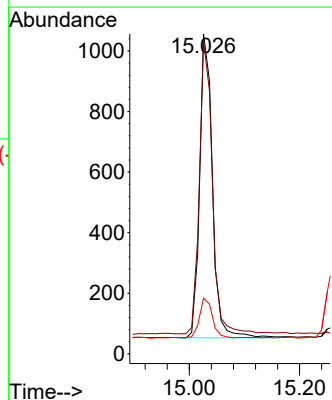
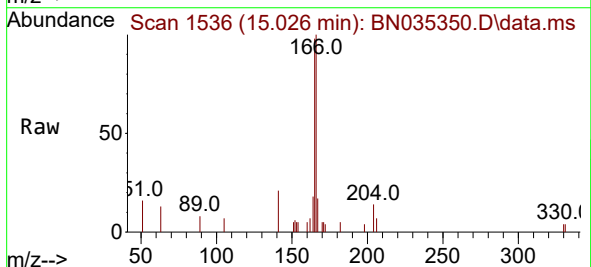
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

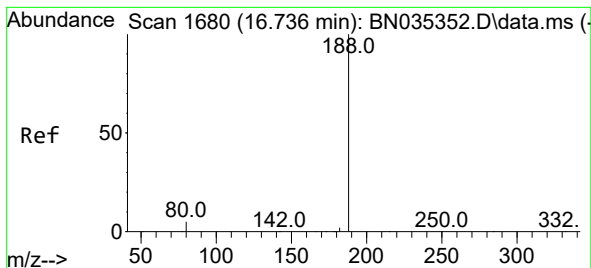
Tgt Ion:154 Resp: 1143
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6



#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

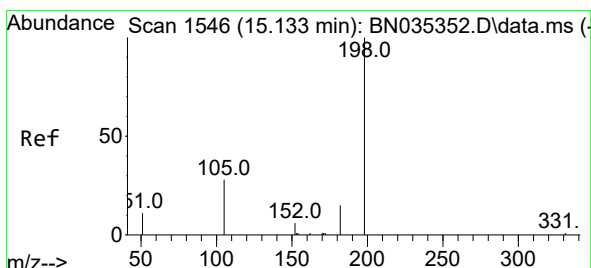
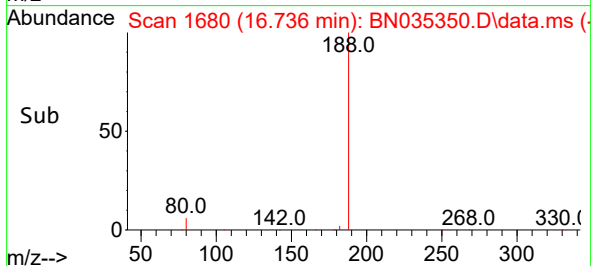
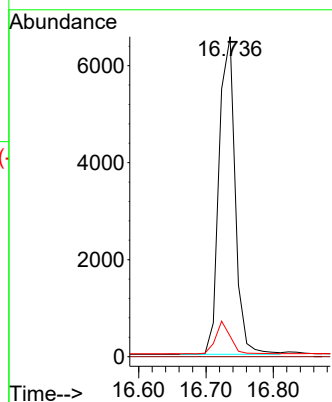
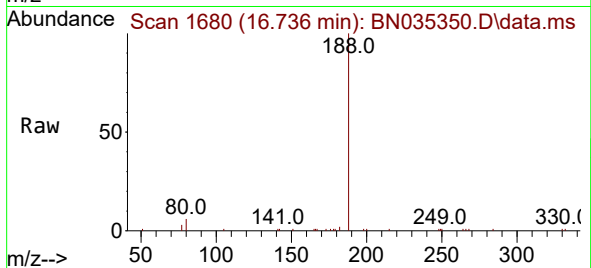
Tgt Ion:188 Resp: 10855

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

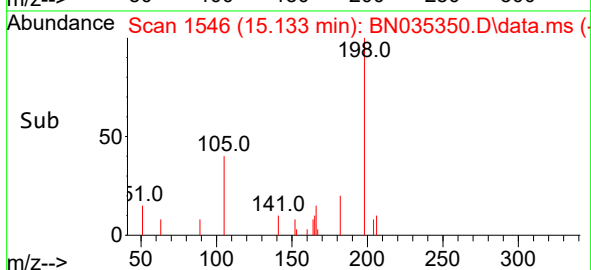
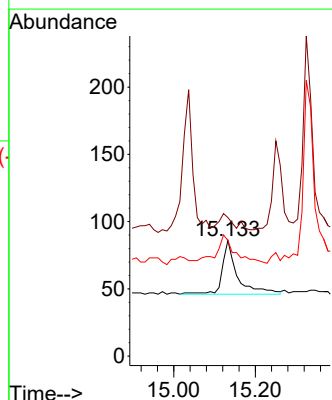
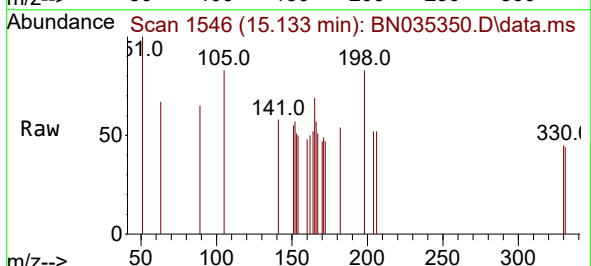
Tgt Ion:198 Resp: 103

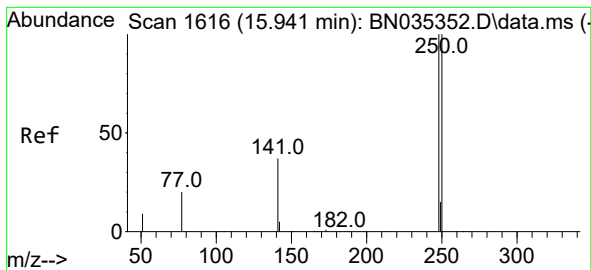
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

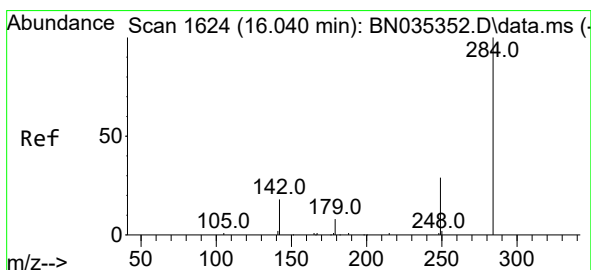
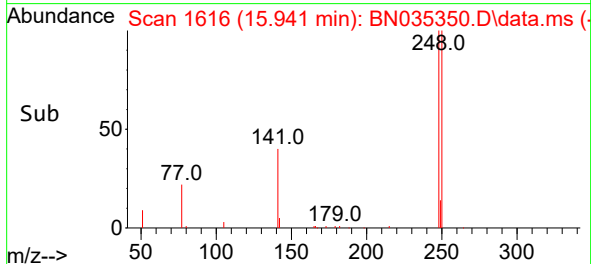
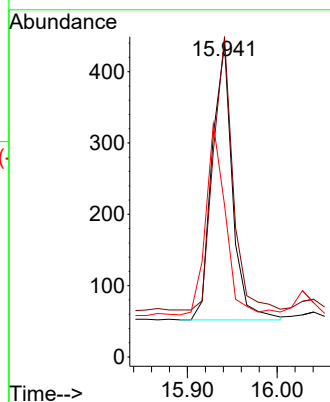
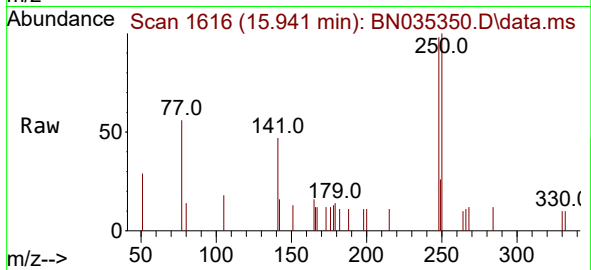




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

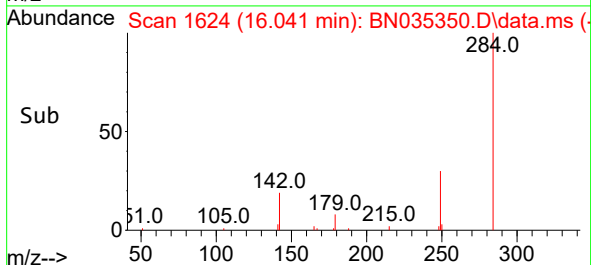
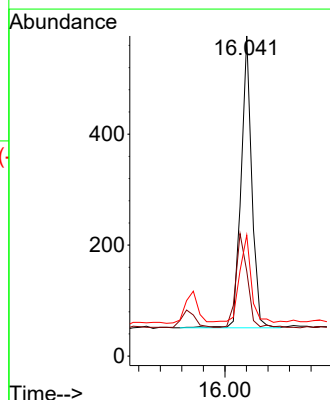
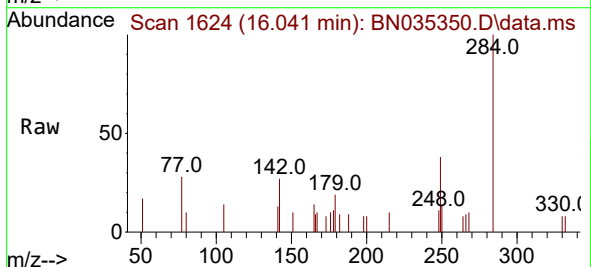
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

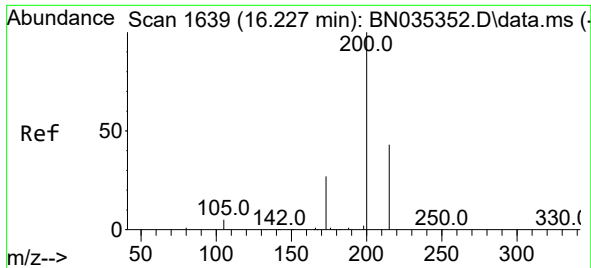
Tgt Ion:248 Resp: 612
Ion Ratio Lower Upper
248 100
250 102.5 80.6 120.8
141 48.6 31.5 47.3#



#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

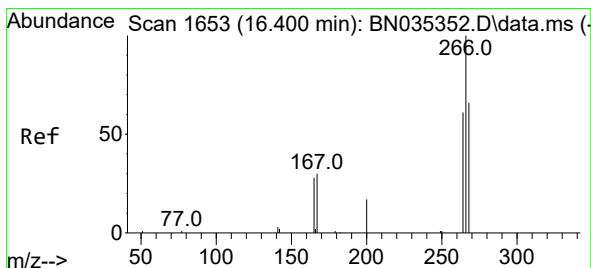
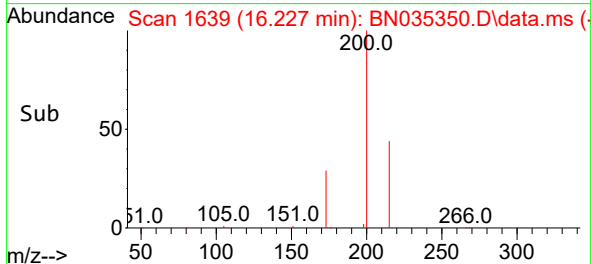
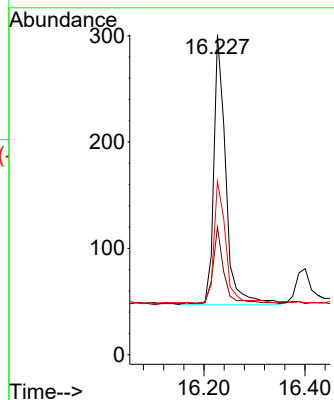
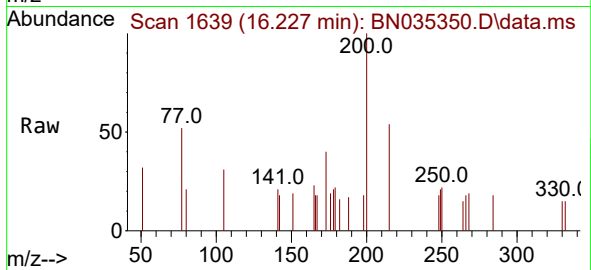




#23
 Atrazine
 Concen: 0.068 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

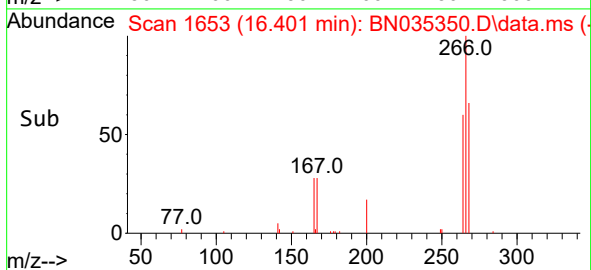
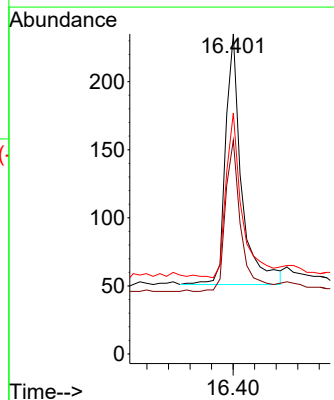
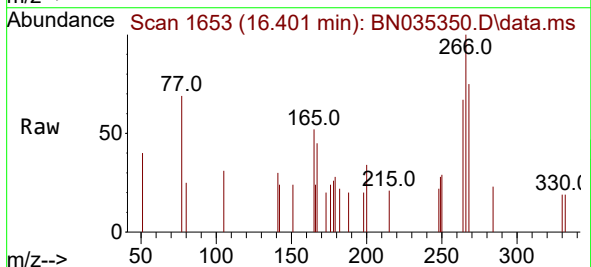
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

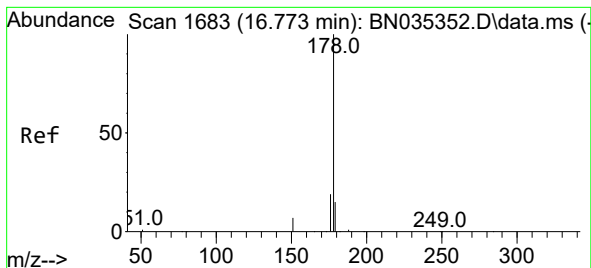
Tgt Ion:200 Resp: 421
 Ion Ratio Lower Upper
 200 100
 173 39.9 24.1 36.1#
 215 54.2 36.9 55.3



#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# 1683

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

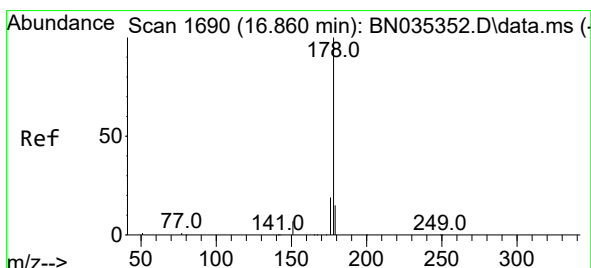
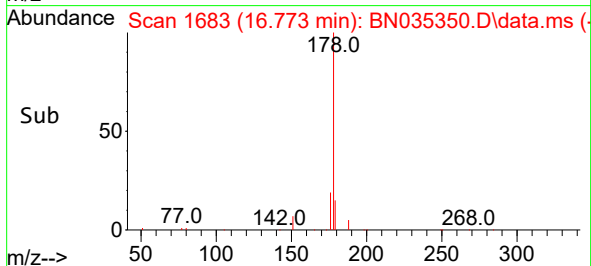
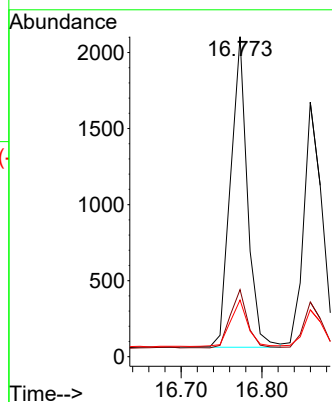
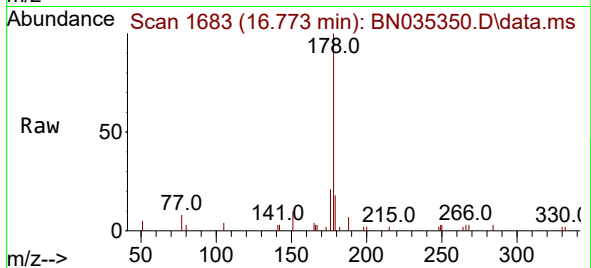
Tgt Ion:178 Resp: 2963

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

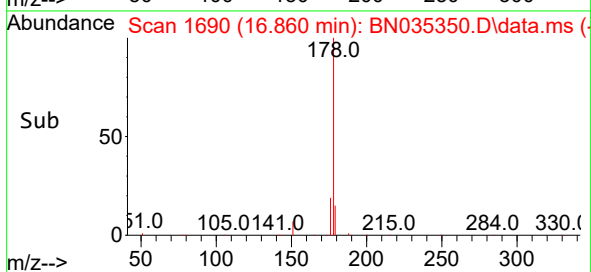
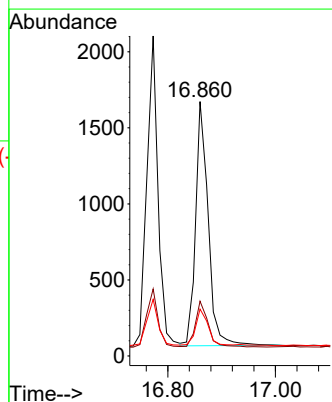
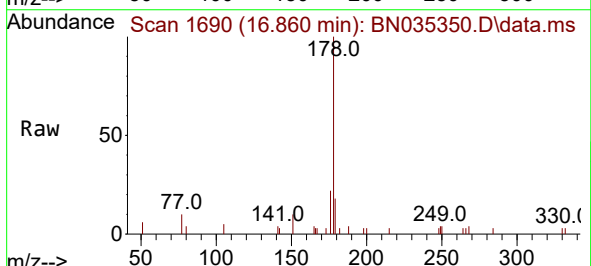
Tgt Ion:178 Resp: 2617

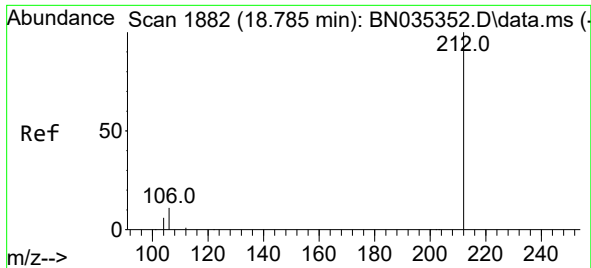
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 14.3 12.6 18.8

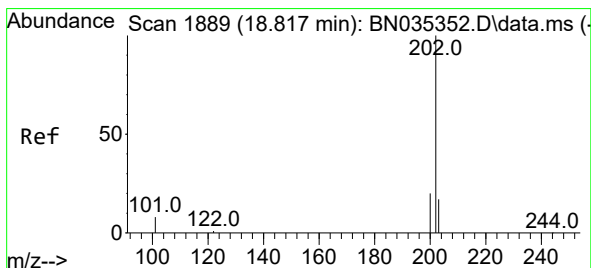
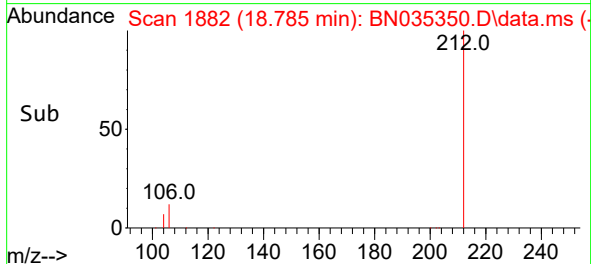
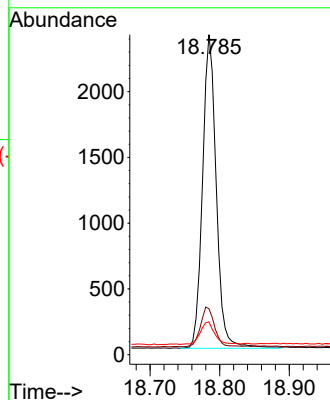
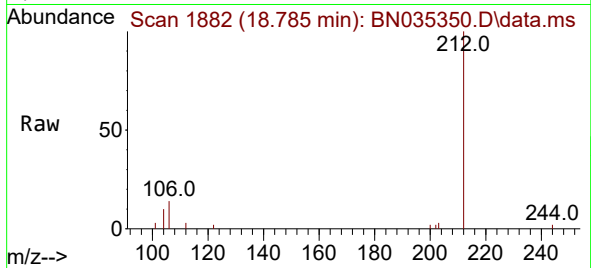




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

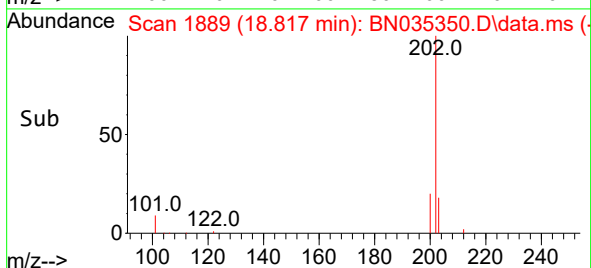
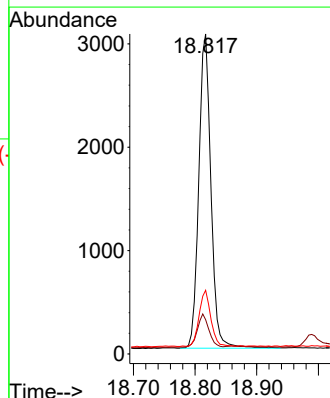
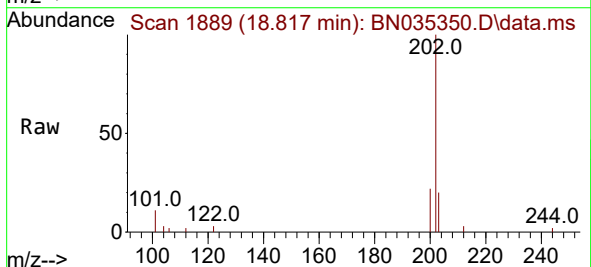
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

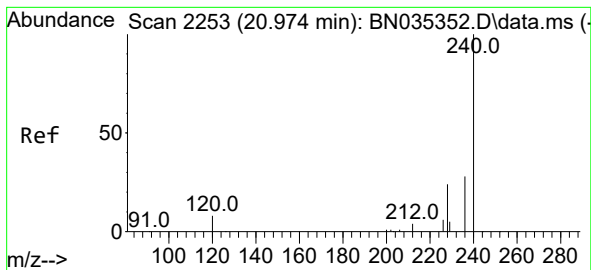
Tgt Ion:212 Resp: 3265
Ion Ratio Lower Upper
212 100
106 12.8 9.2 13.8
104 7.6 5.3 7.9



#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# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

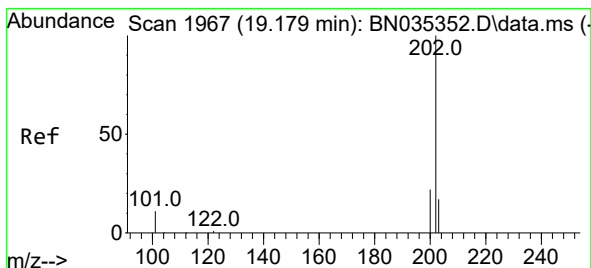
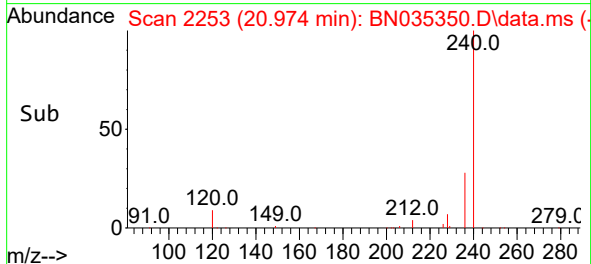
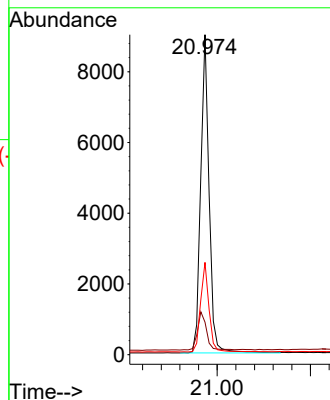
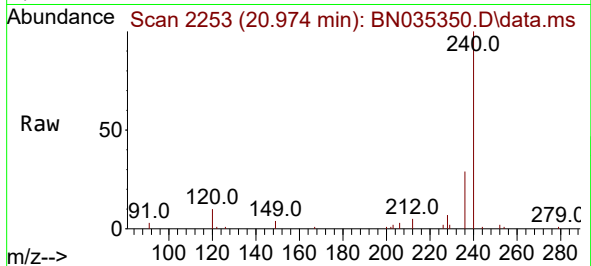
Tgt Ion:240 Resp: 11269

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

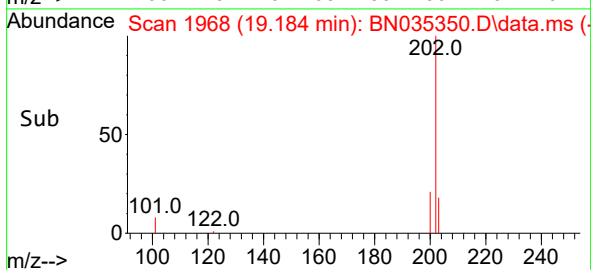
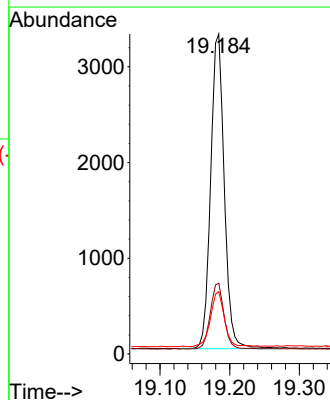
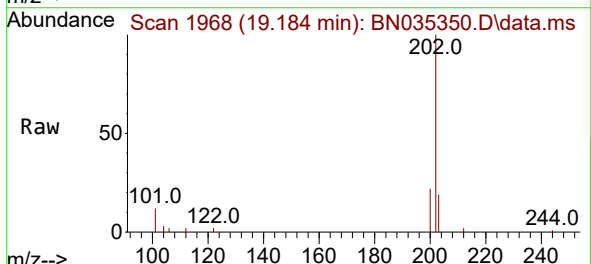
Tgt Ion:202 Resp: 4461

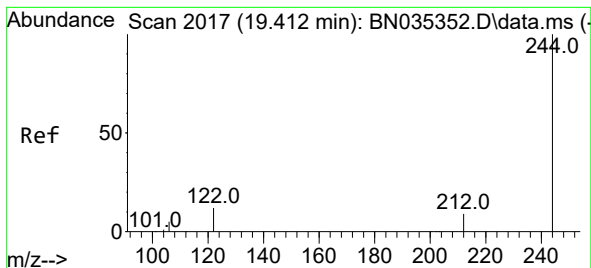
Ion Ratio Lower Upper

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# 2017

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

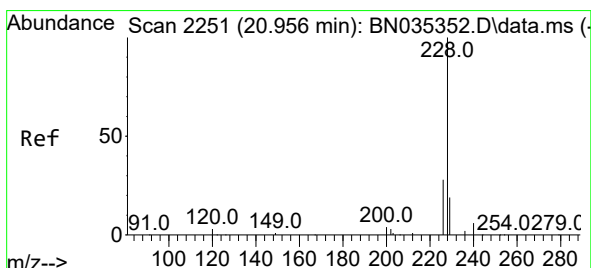
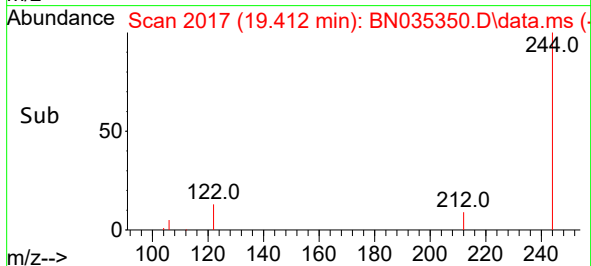
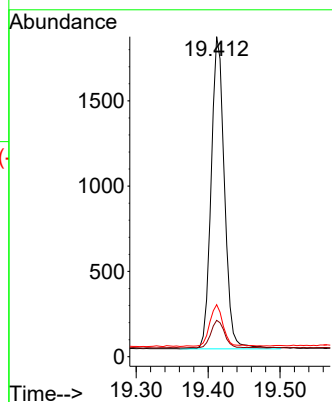
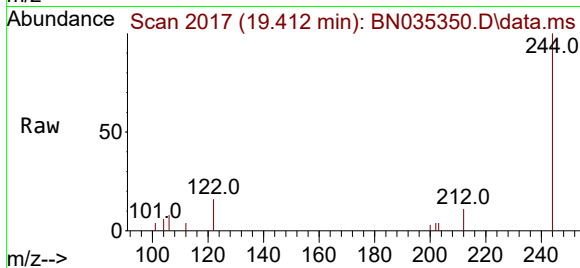
Tgt Ion:244 Resp: 2344

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

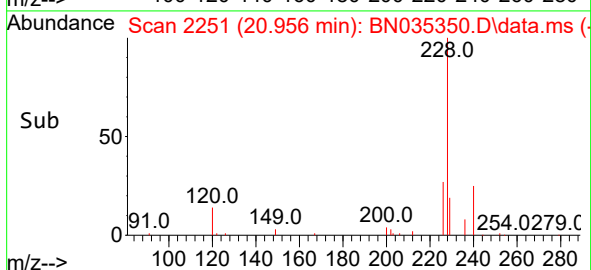
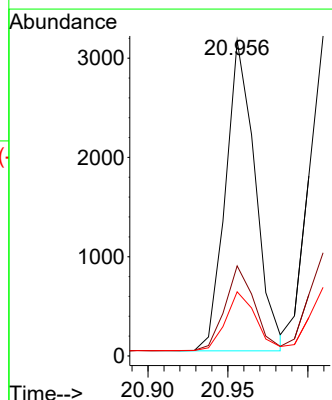
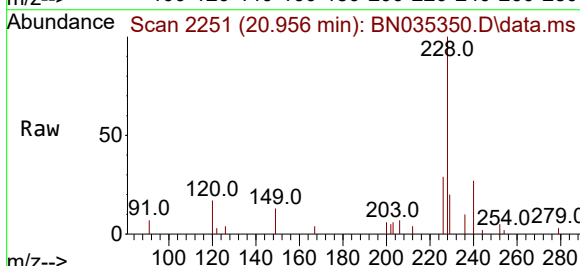
Tgt Ion:228 Resp: 4031

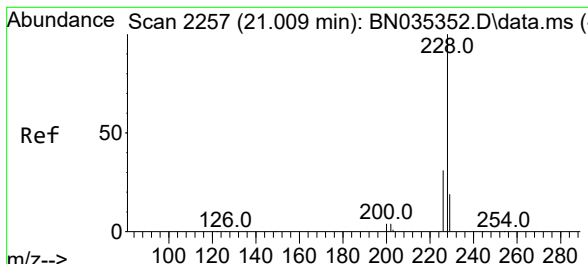
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

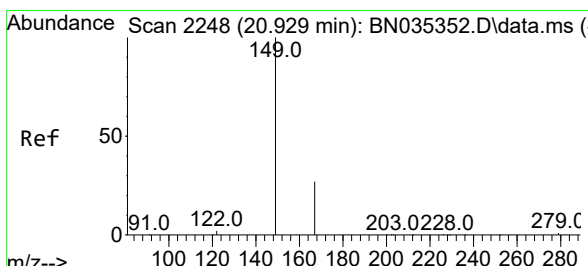
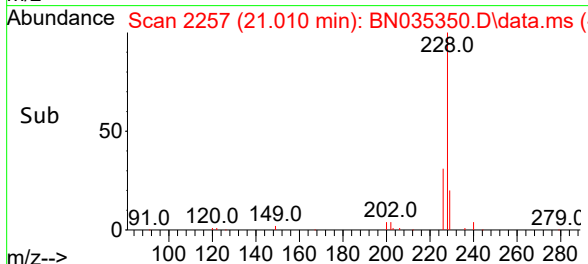
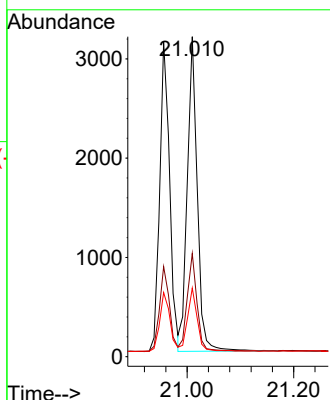
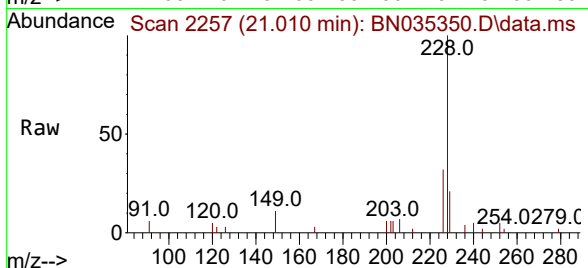
Tgt Ion:228 Resp: 4123

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

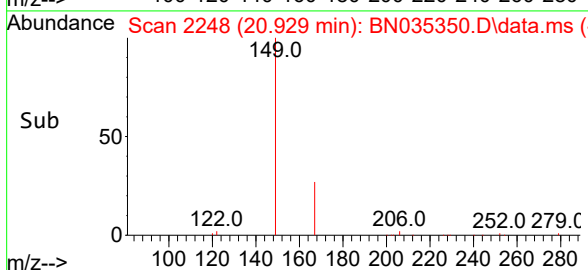
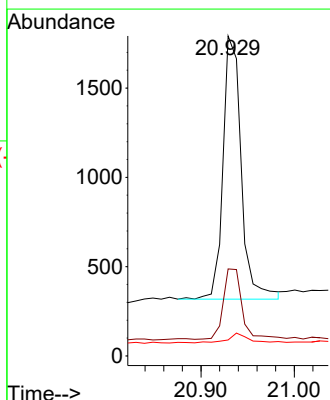
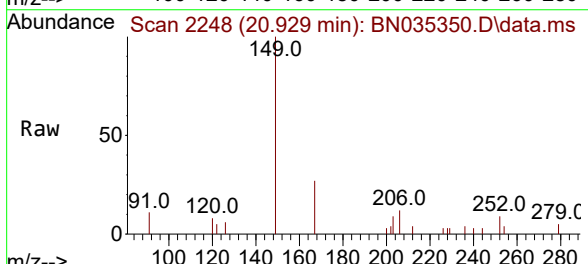
Tgt Ion:149 Resp: 1999

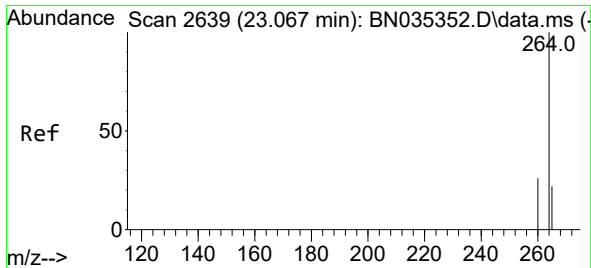
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 3.6 2.7 4.1

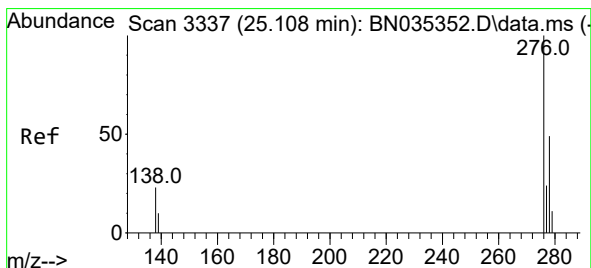
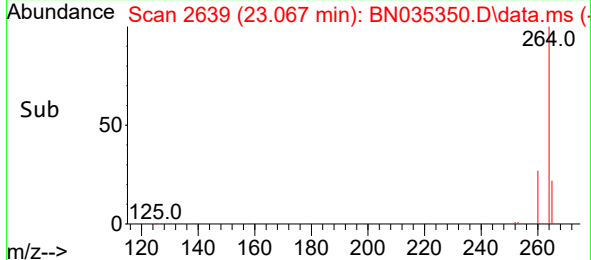
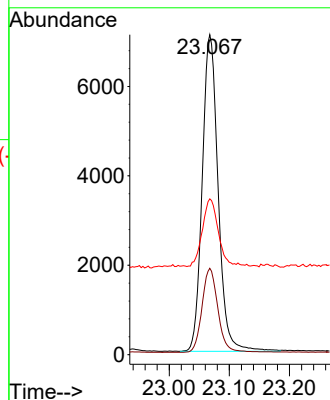
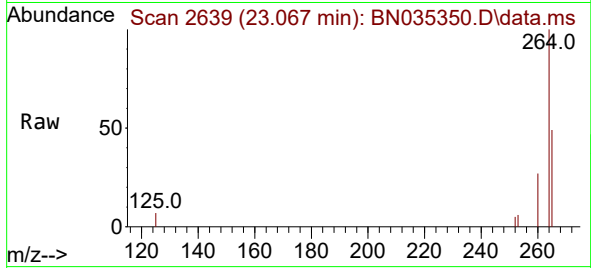




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.067 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

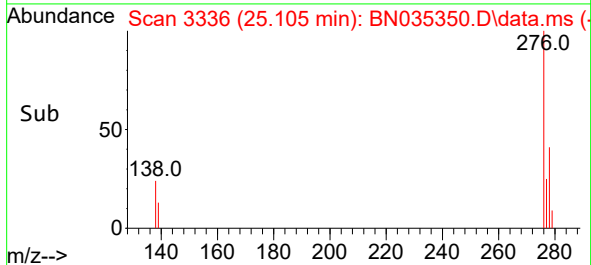
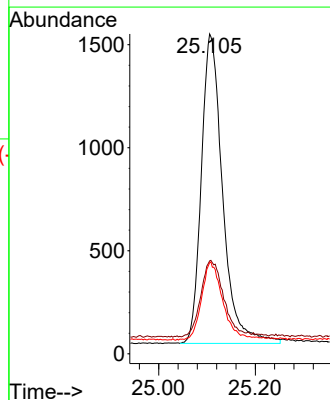
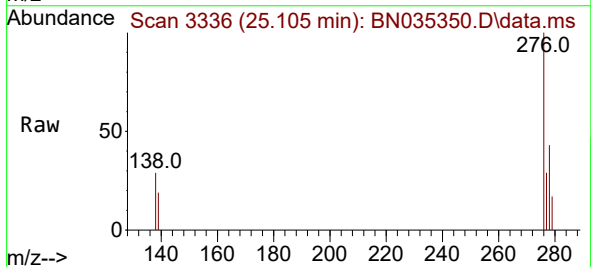
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

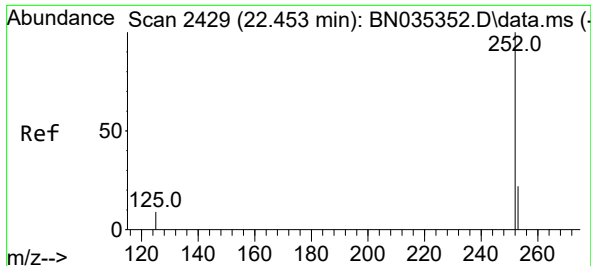
Tgt Ion:264 Resp: 13004
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.4 32.2
 265 48.7 40.2 60.4



#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

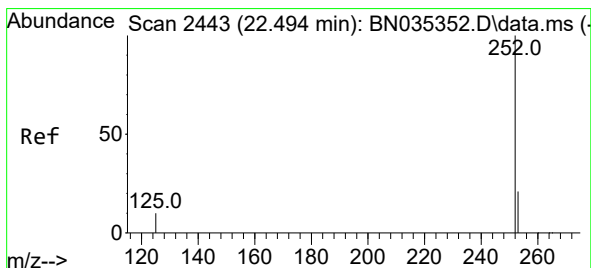
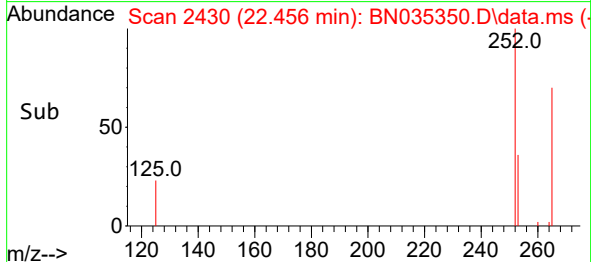
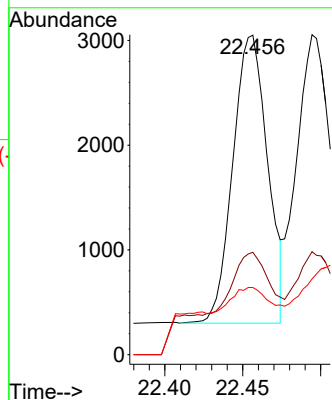
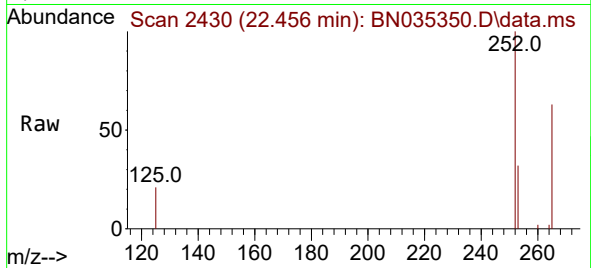




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

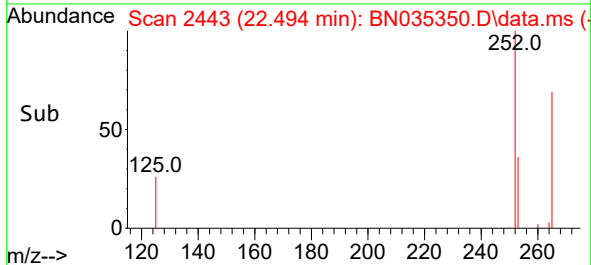
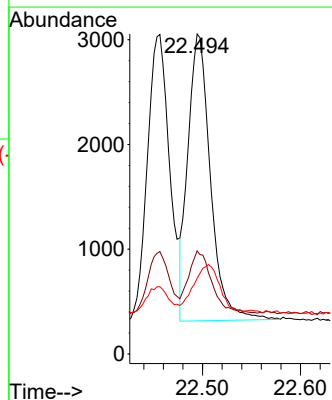
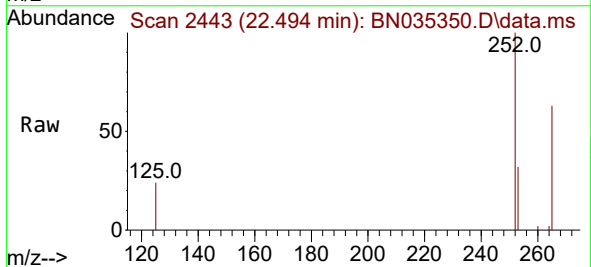
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

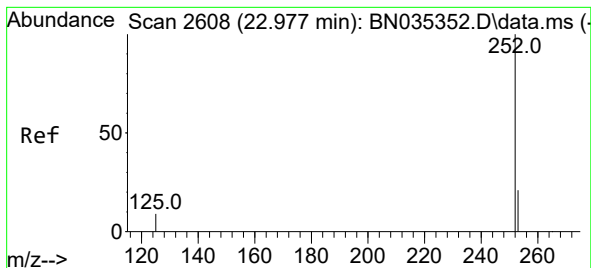
Tgt Ion:252 Resp: 4243
Ion Ratio Lower Upper
252 100
253 32.1 19.6 29.4#
125 21.0 9.6 14.4#



#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# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

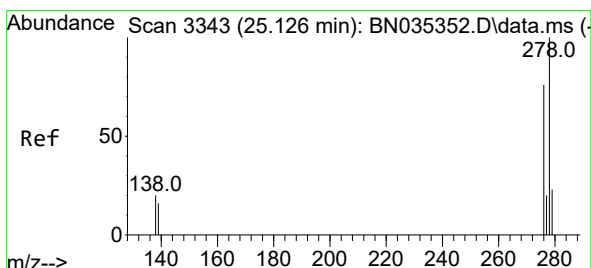
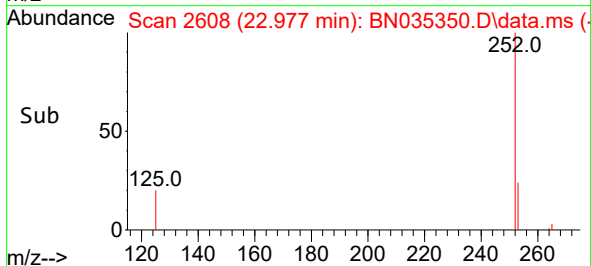
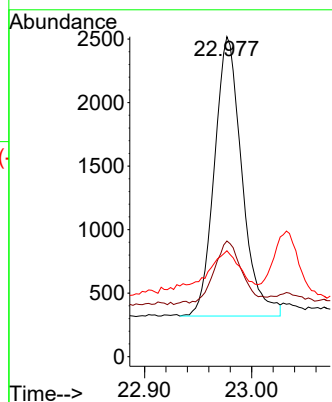
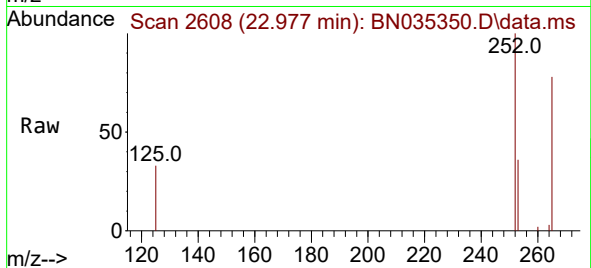
Tgt Ion:252 Resp: 3913

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

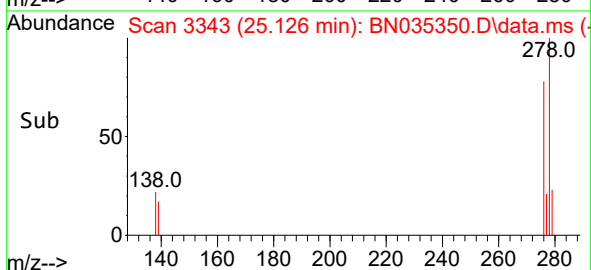
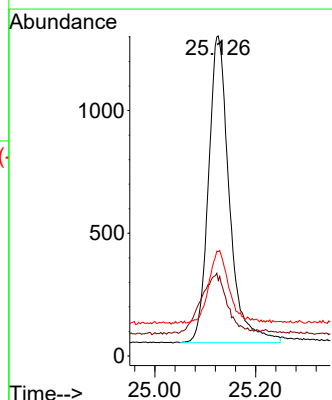
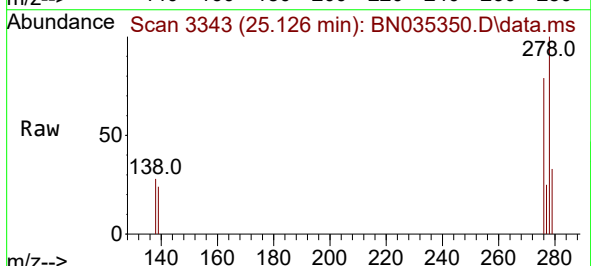
Tgt Ion:278 Resp: 3588

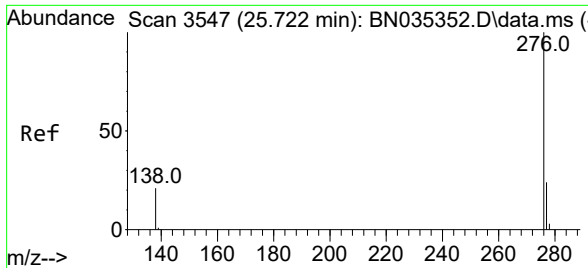
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

279 32.6 20.5 30.7#

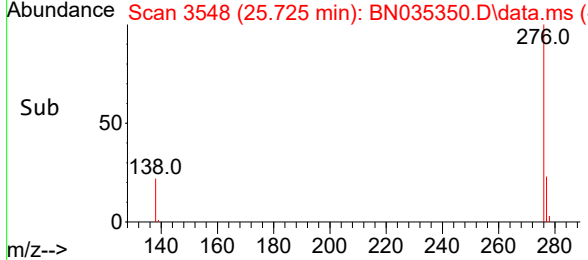
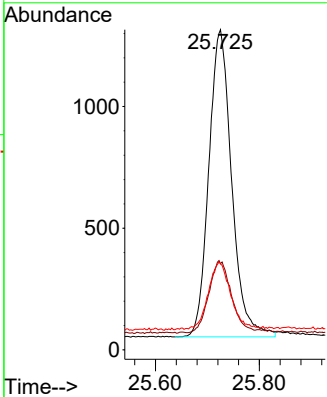
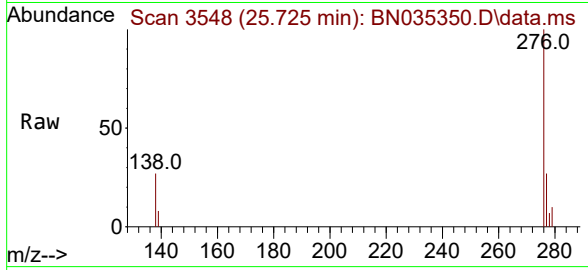




#41
 Benzo(g,h,i)perylene
 Concen: 0.088 ng
 RT: 25.725 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

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#



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)

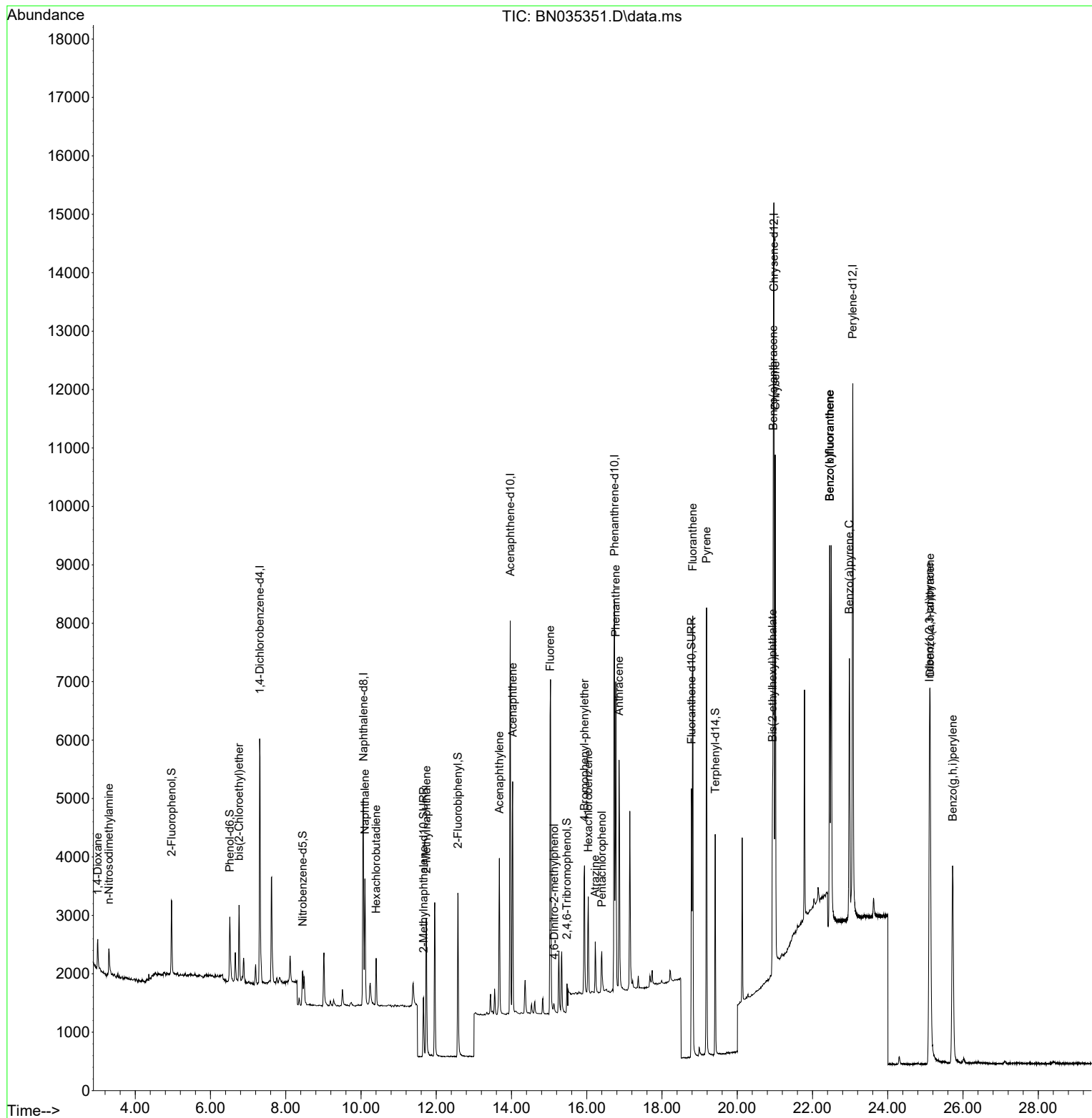
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	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

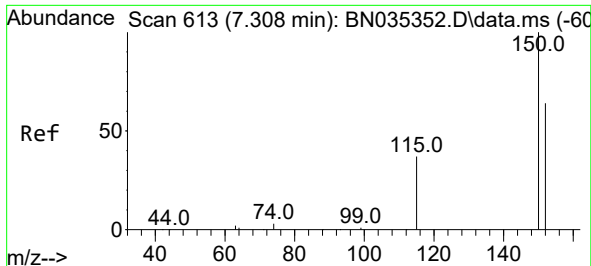
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

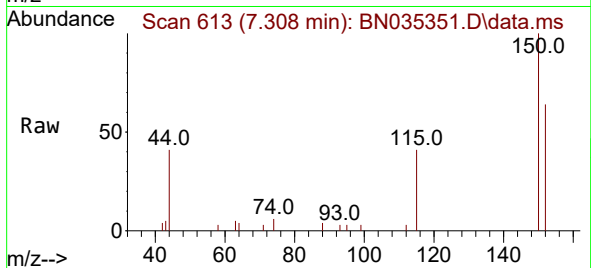
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





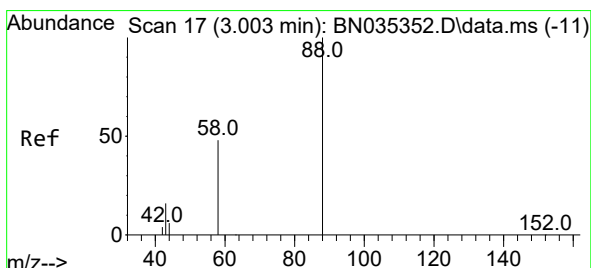
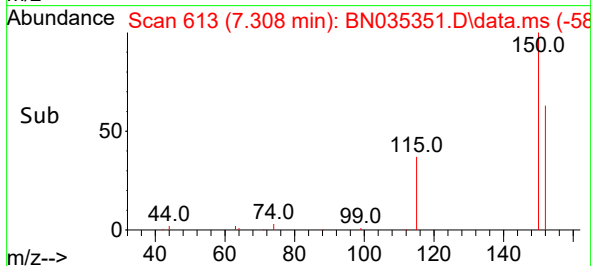
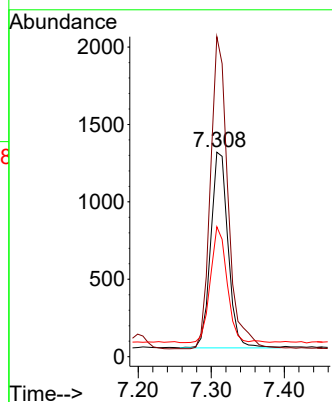
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:152 Resp: 2084

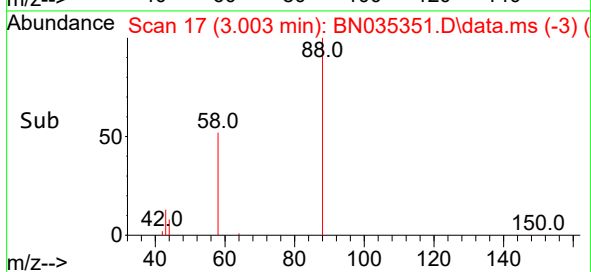
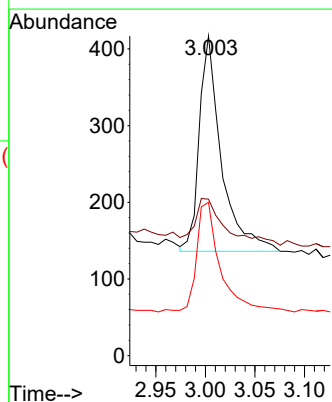
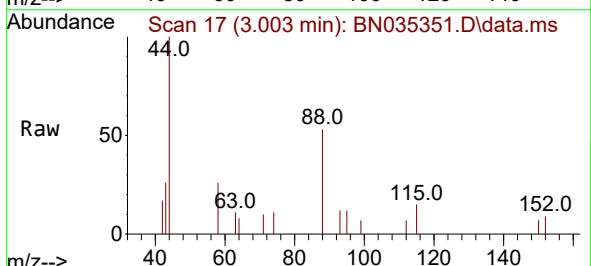
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

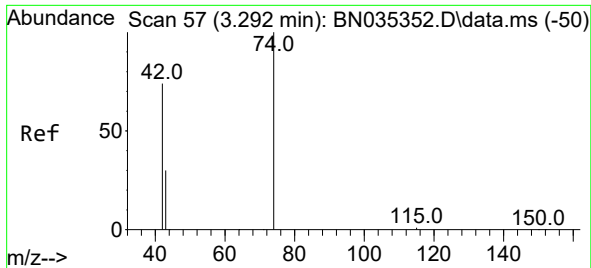


#2
 1,4-Dioxane
 Concen: 0.230 ng
 RT: 3.003 min Scan# 17
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

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

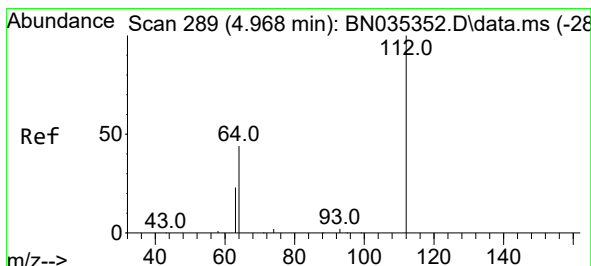
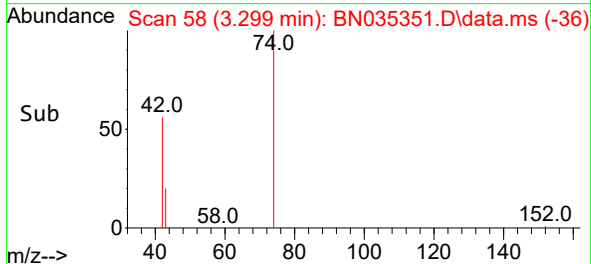
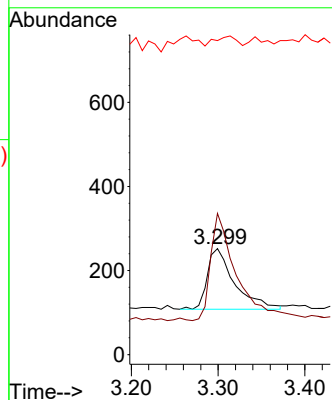
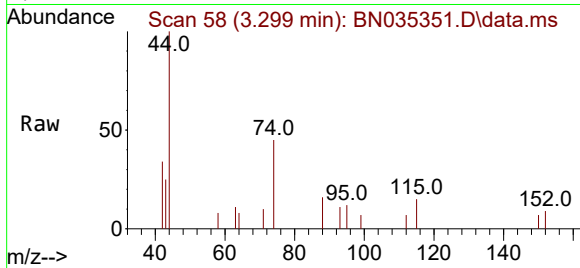




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

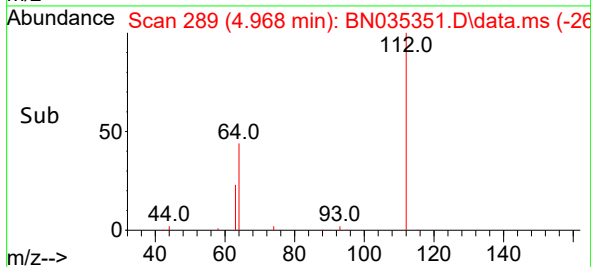
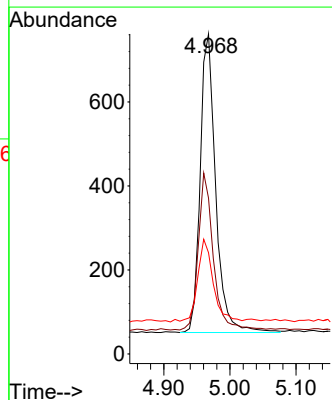
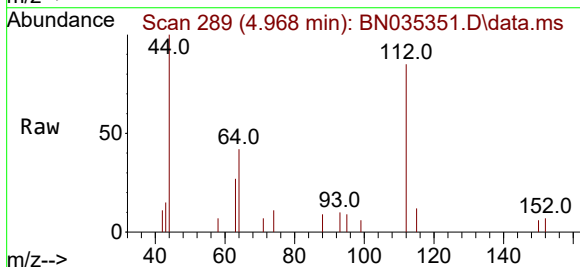
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

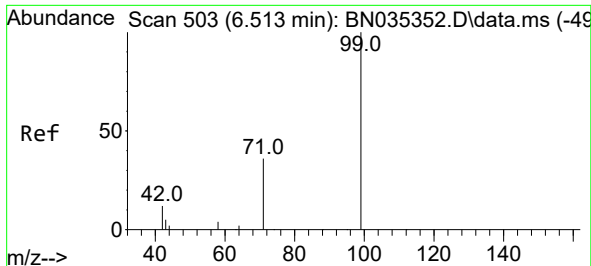
Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4#



#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

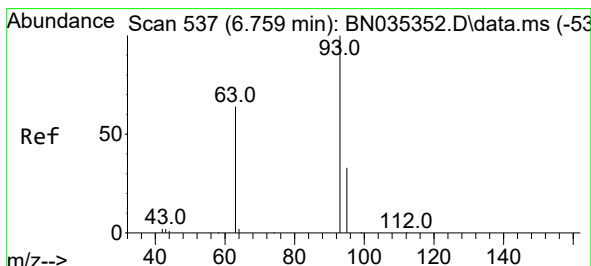
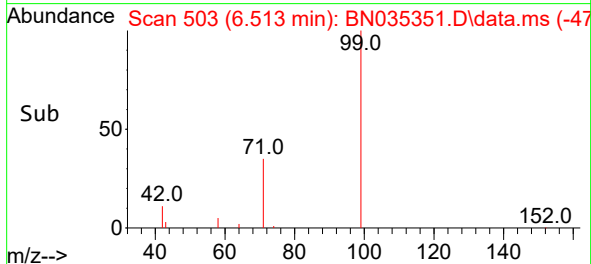
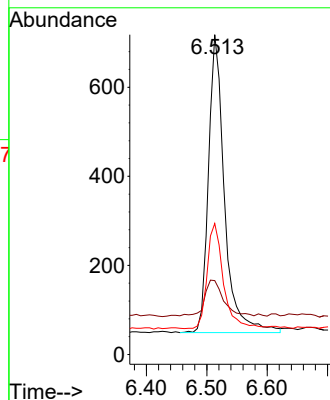
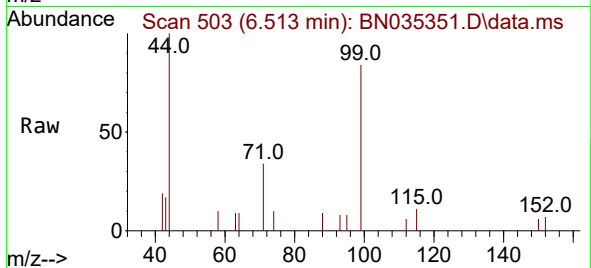




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

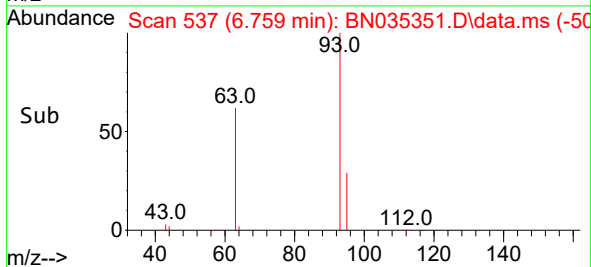
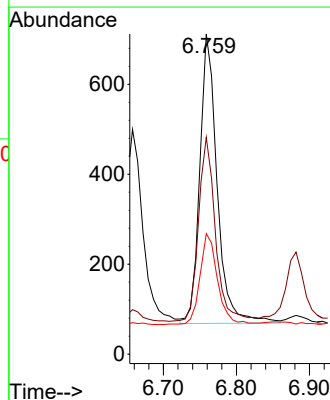
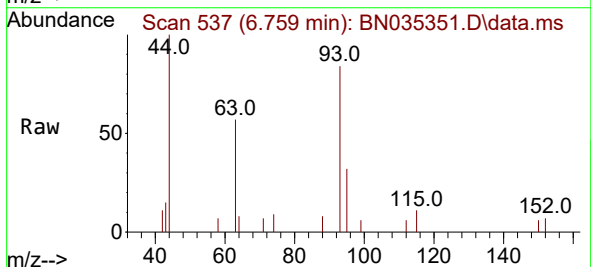
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

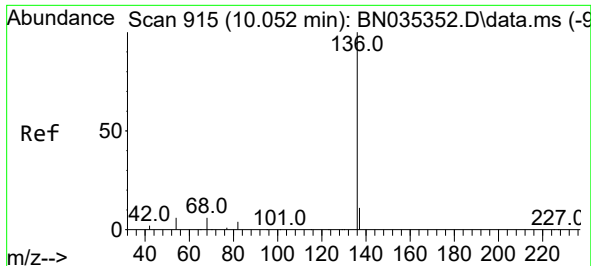
Tgt Ion:	99	Resp:	1236
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



#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

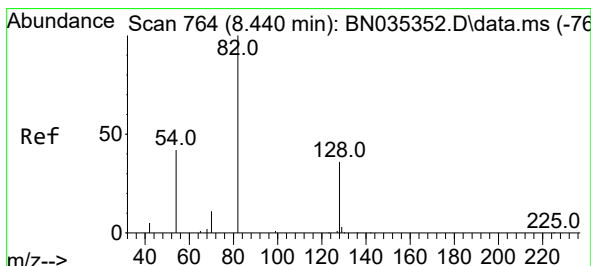
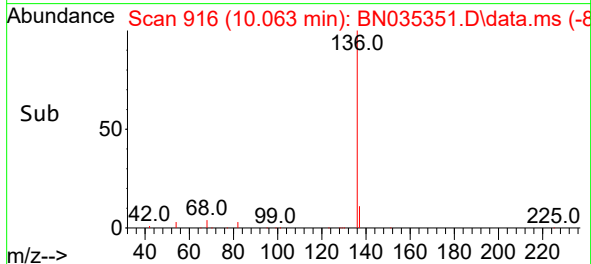
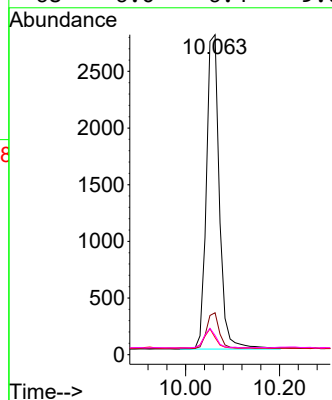
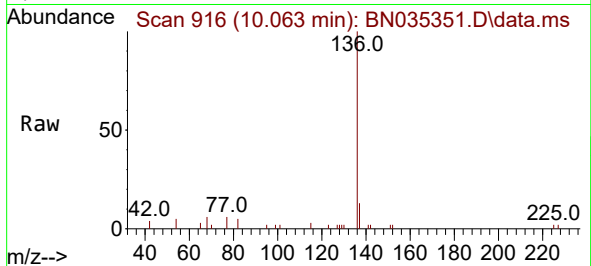




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

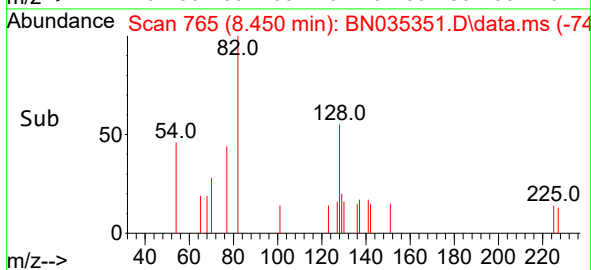
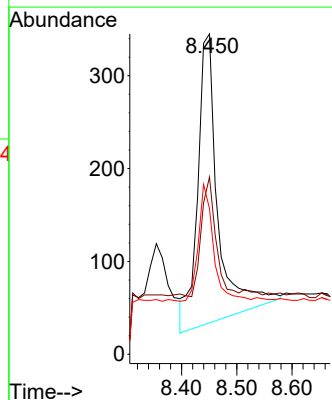
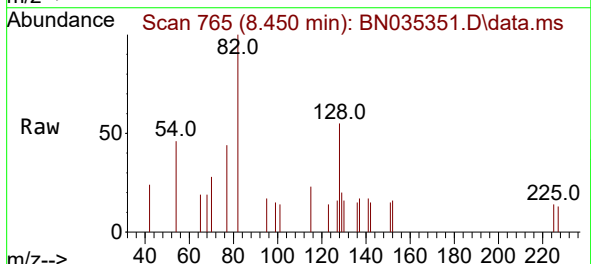
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

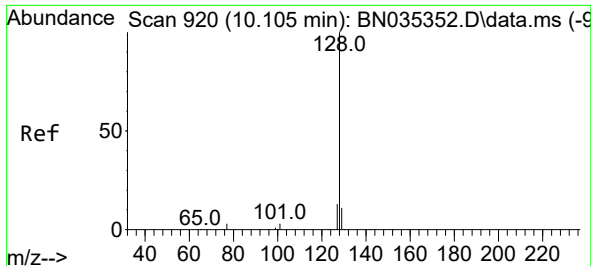
Tgt Ion:	136	Resp:	5334
Ion Ratio	Lower	Upper	
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



#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

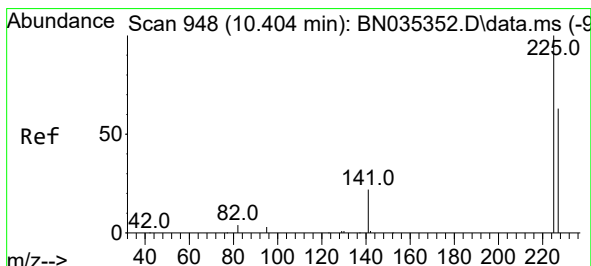
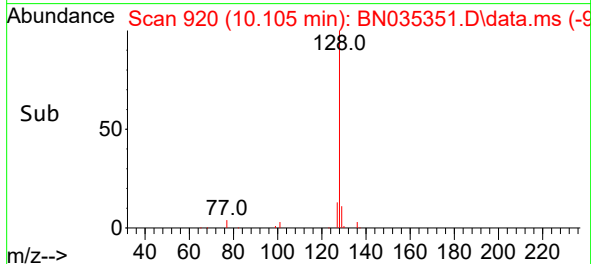
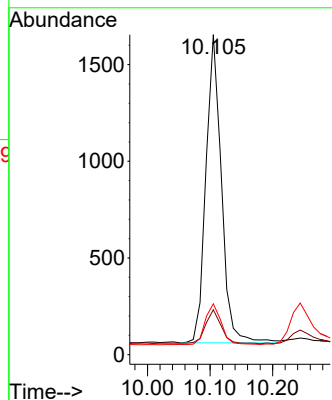
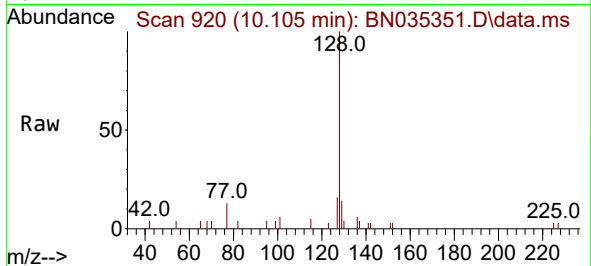




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

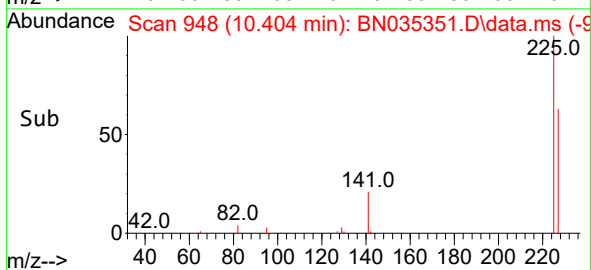
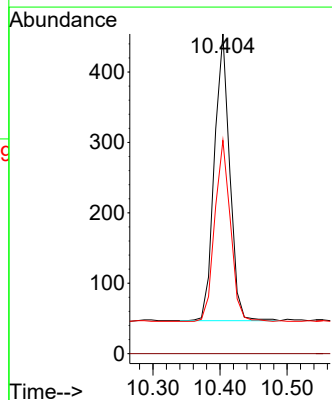
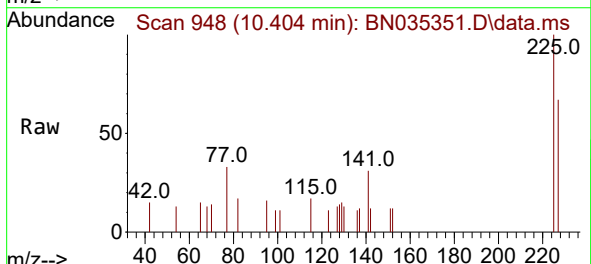
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

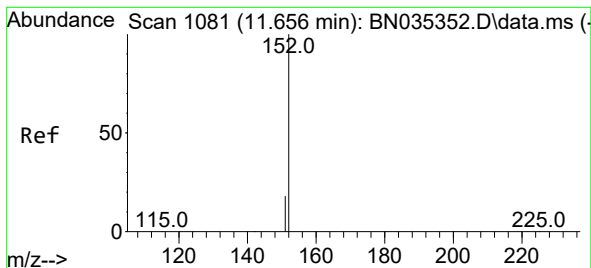
Tgt Ion:128 Resp: 2744
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2



#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

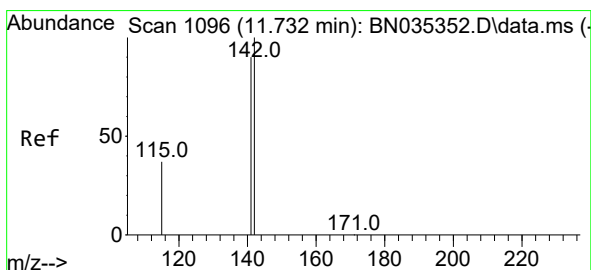
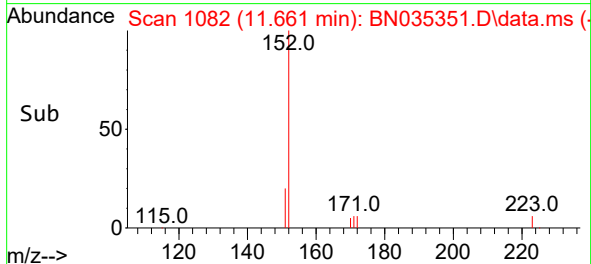
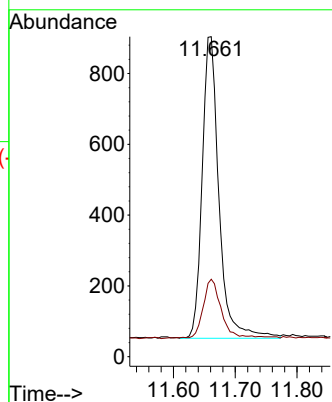
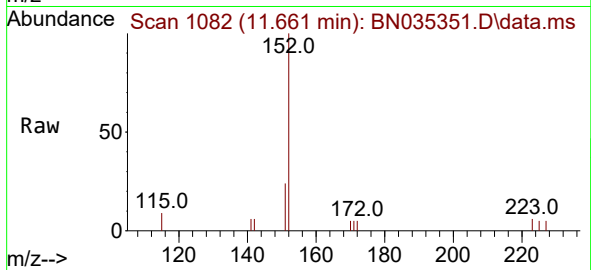




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

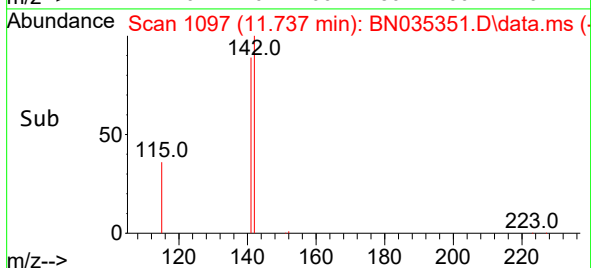
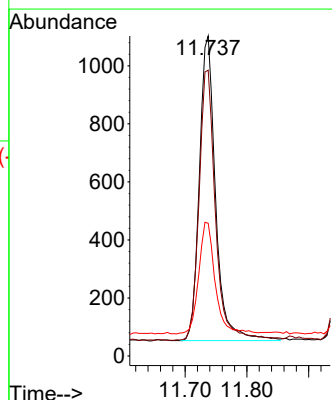
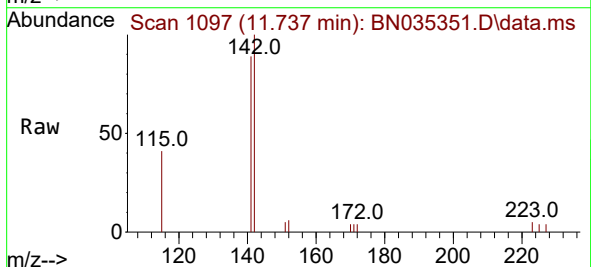
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

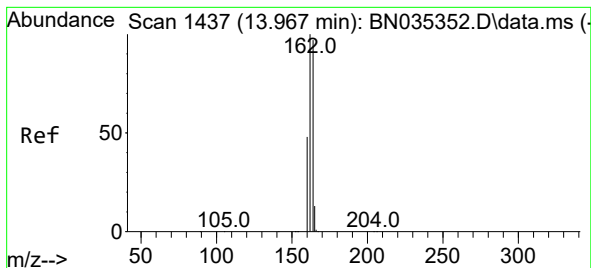
Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0



#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

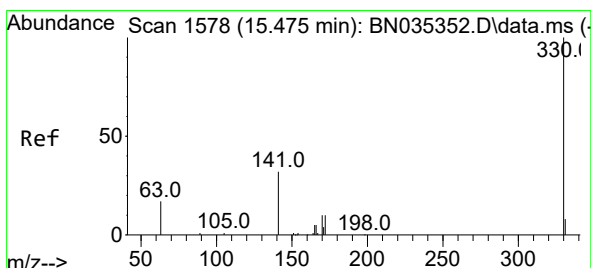
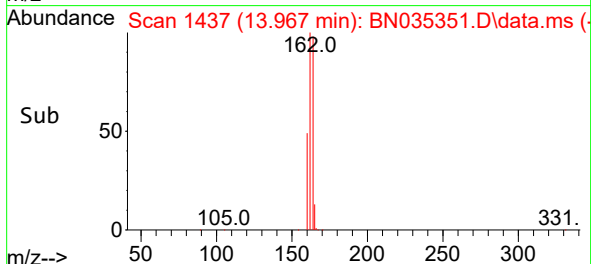
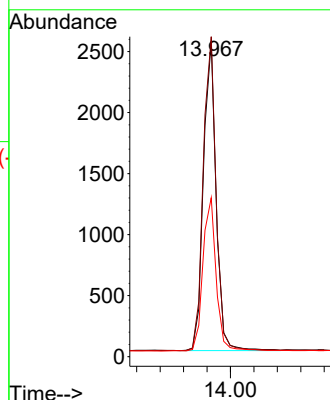
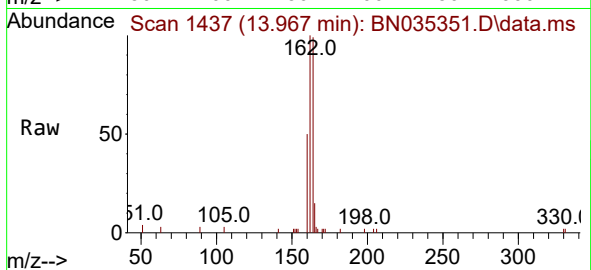
Tgt Ion:164 Resp: 3808

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

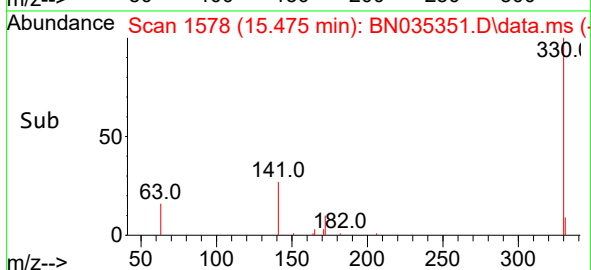
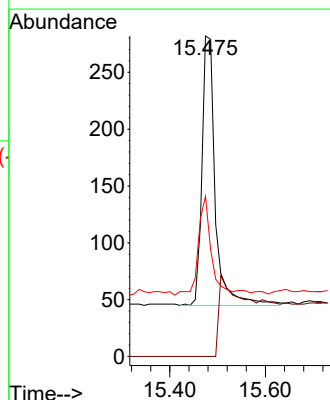
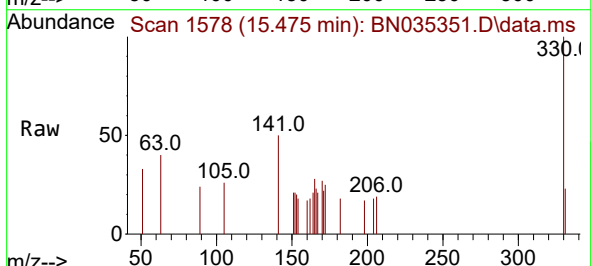
Tgt Ion:330 Resp: 492

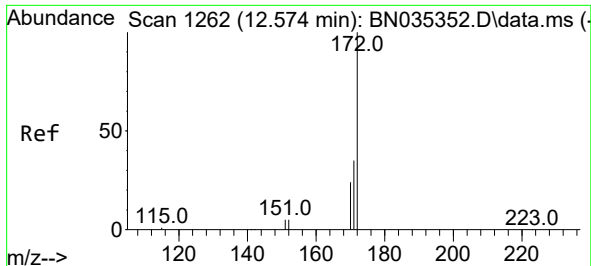
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.2 26.6 40.0

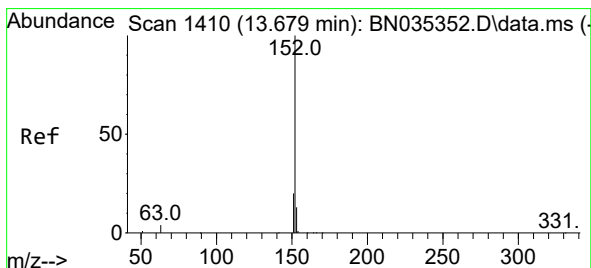
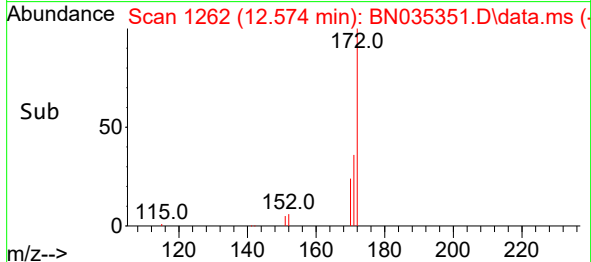
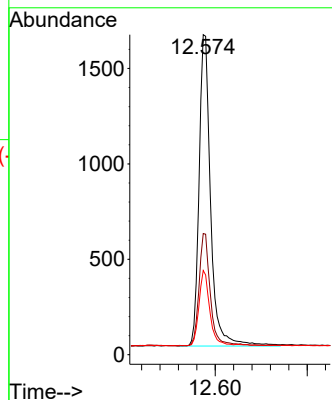
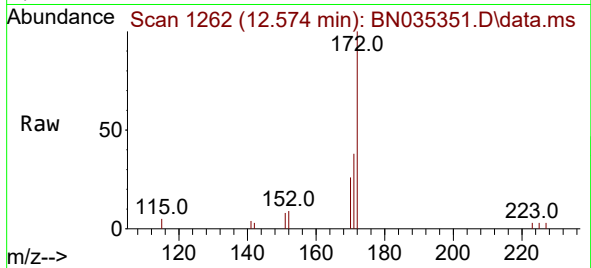




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

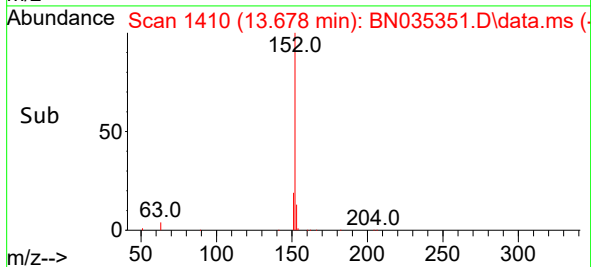
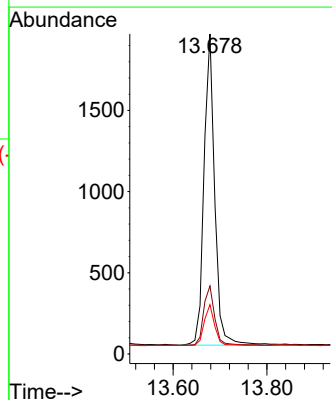
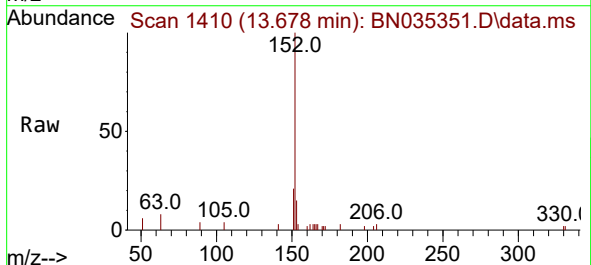
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

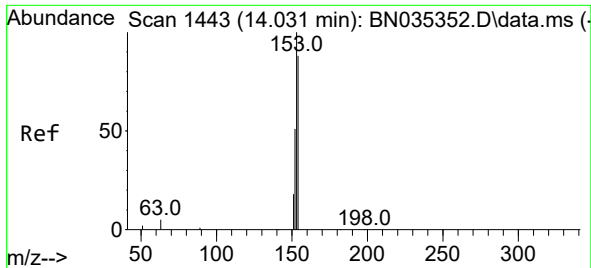
Tgt Ion:172 Resp: 2838
Ion Ratio Lower Upper
172 100
171 37.9 29.0 43.4
170 26.3 19.8 29.8



#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

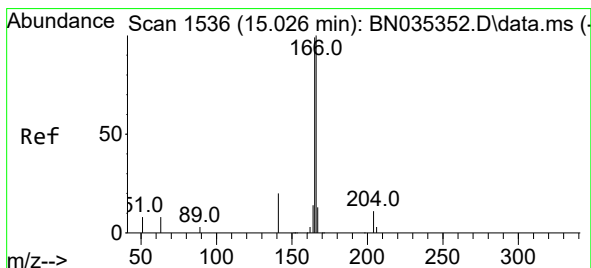
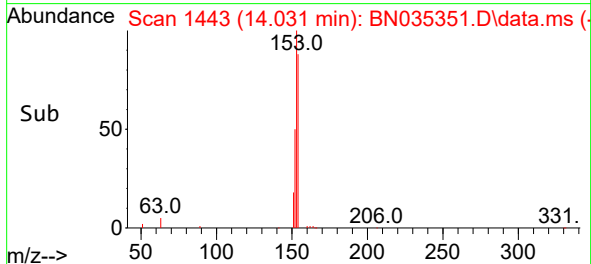
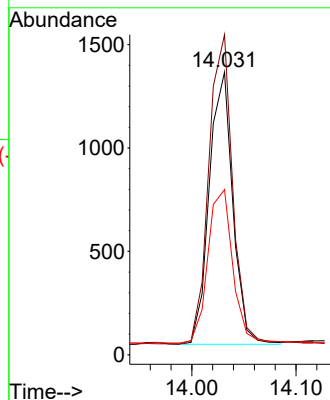
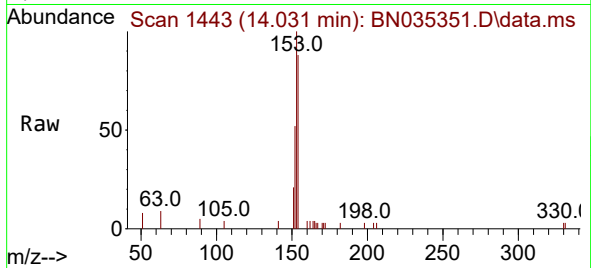




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

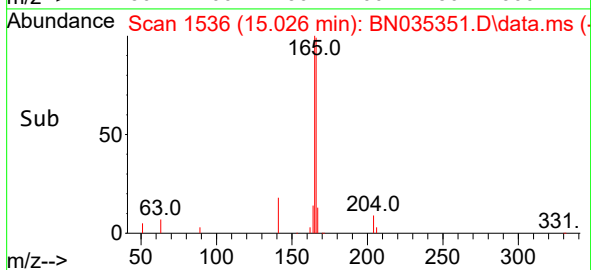
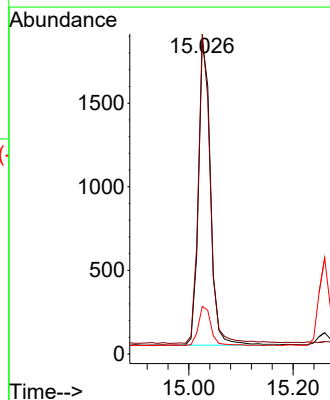
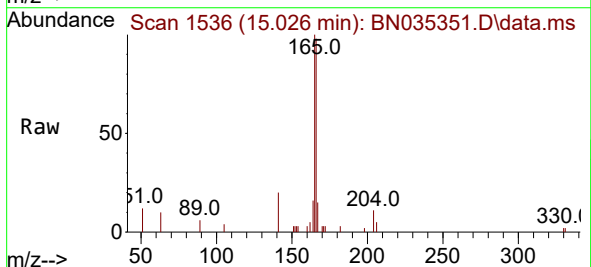
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

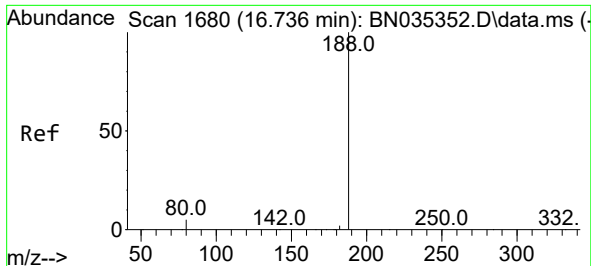
Tgt Ion:154 Resp: 2064
Ion Ratio Lower Upper
154 100
153 115.2 92.6 139.0
152 60.7 49.0 73.6



#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

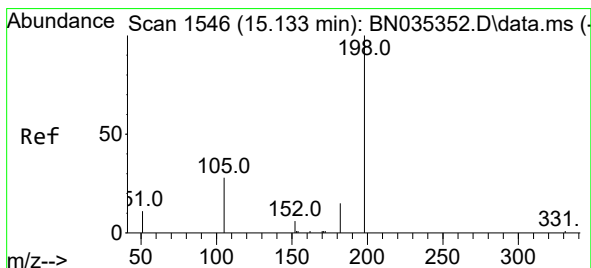
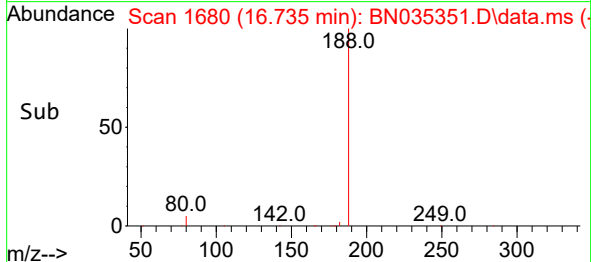
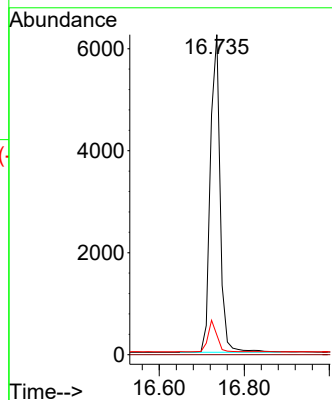
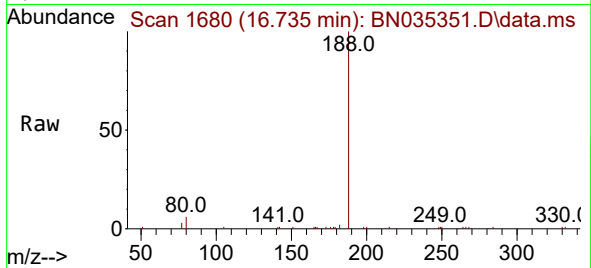




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

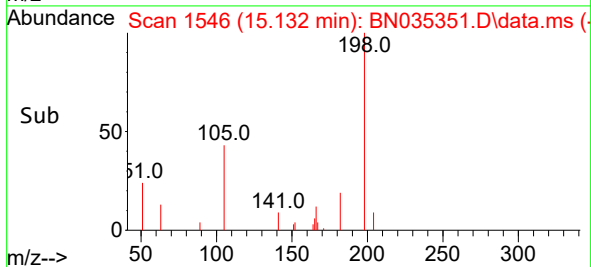
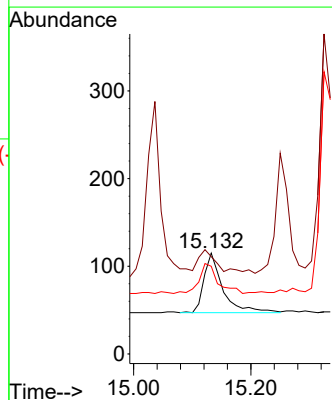
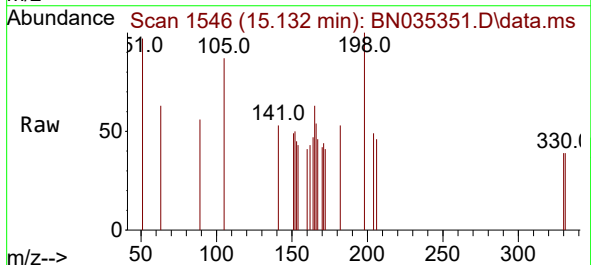
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

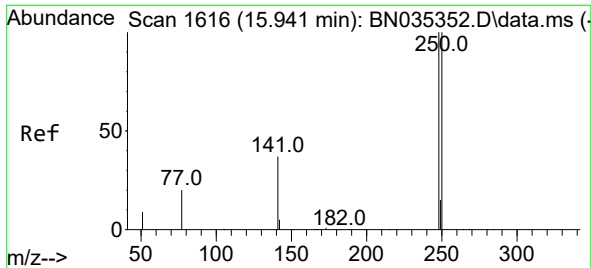
Tgt Ion:188 Resp: 9904
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.2 4.6 6.8



#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#

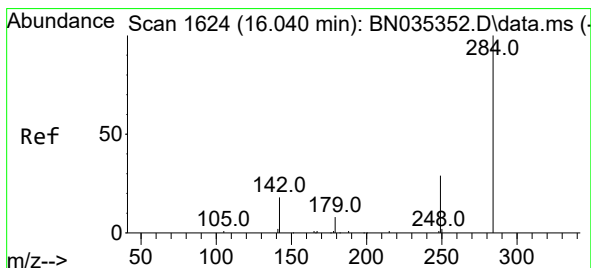
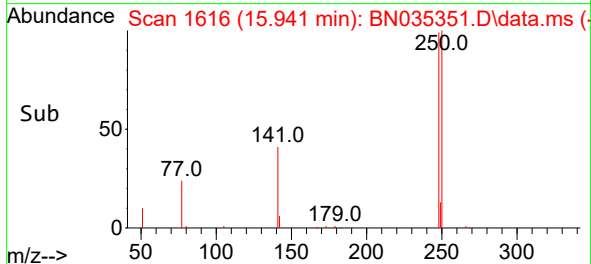
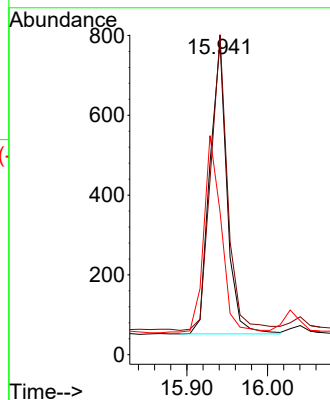
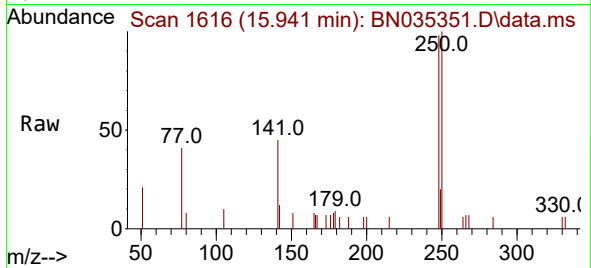




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

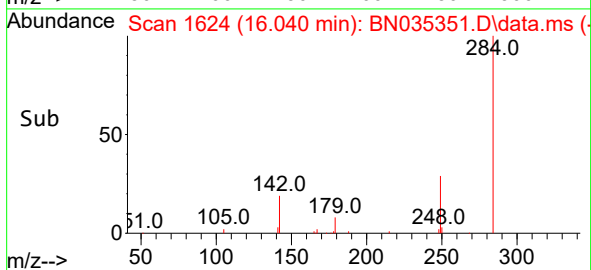
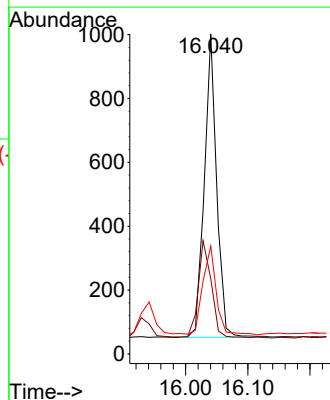
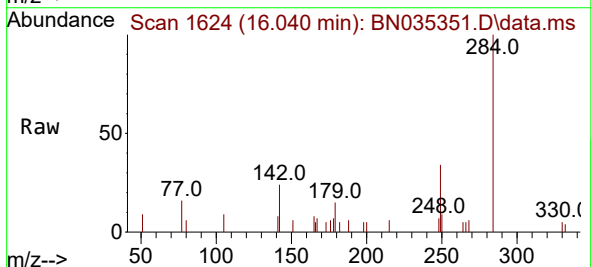
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

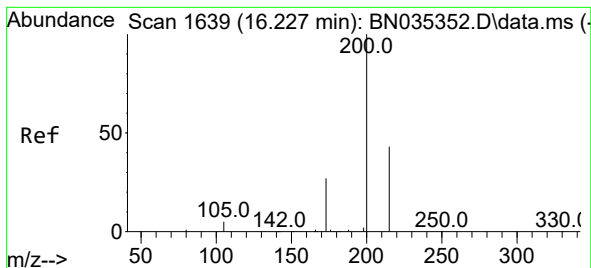
Tgt Ion:248 Resp: 1081
Ion Ratio Lower Upper
248 100
250 102.3 80.6 120.8
141 45.7 31.5 47.3



#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# 1639

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

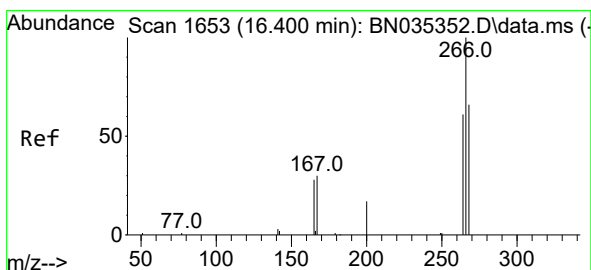
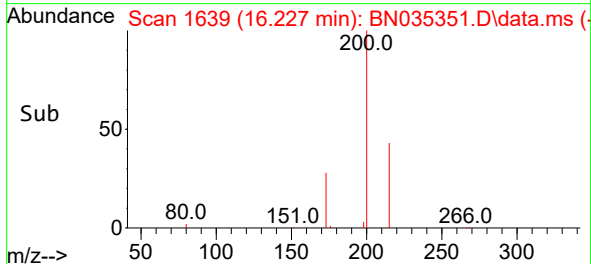
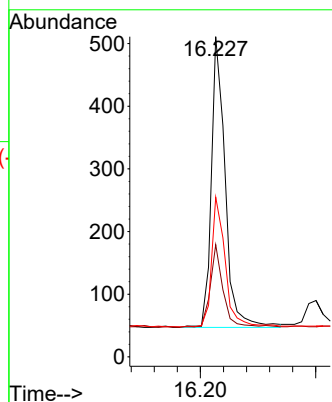
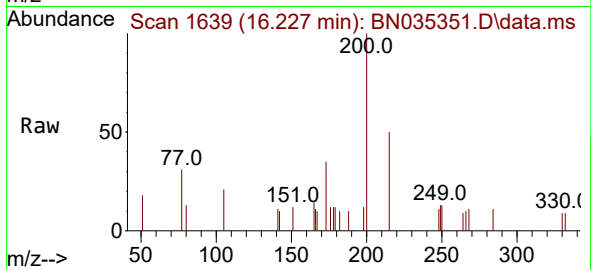
Tgt Ion:200 Resp: 770

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

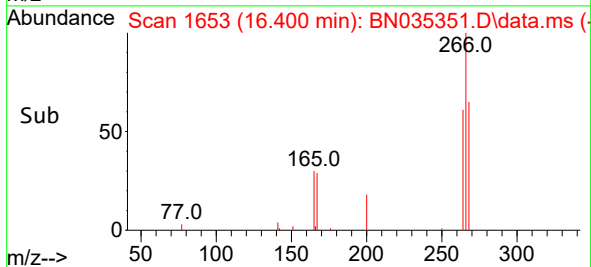
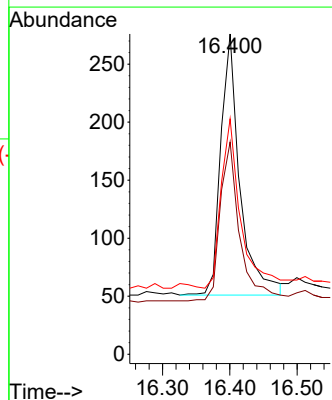
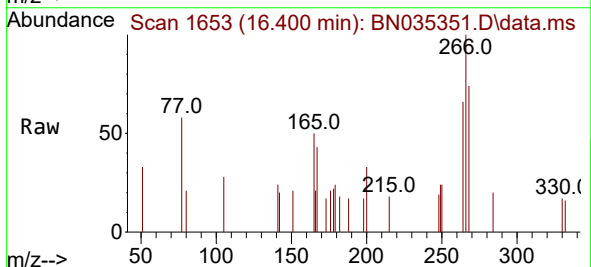
Tgt Ion:266 Resp: 445

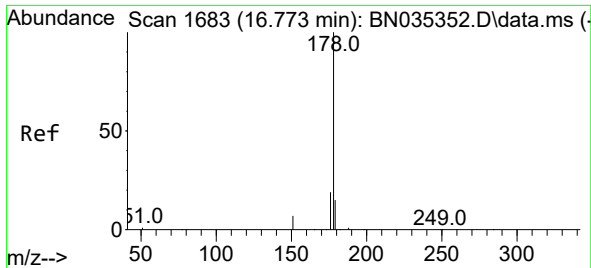
Ion Ratio Lower Upper

266 100

264 62.7 42.3 63.5

268 67.2 43.3 64.9#

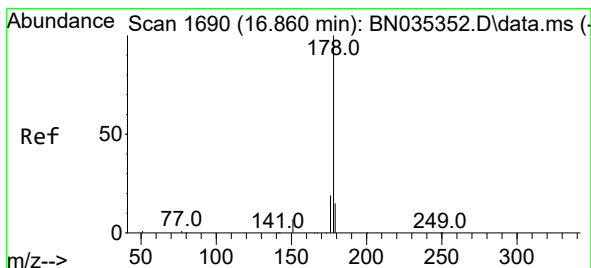
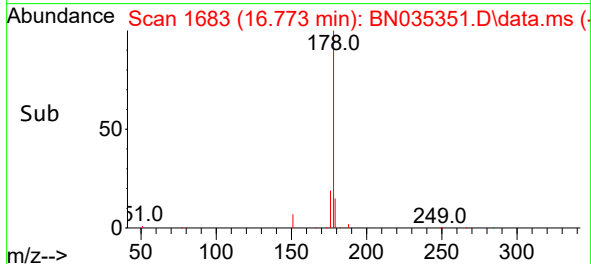
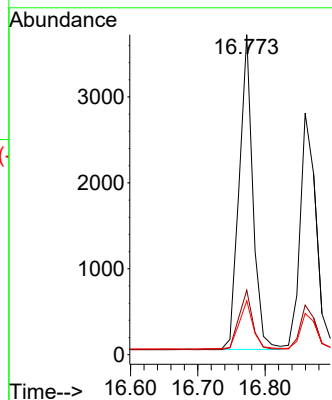
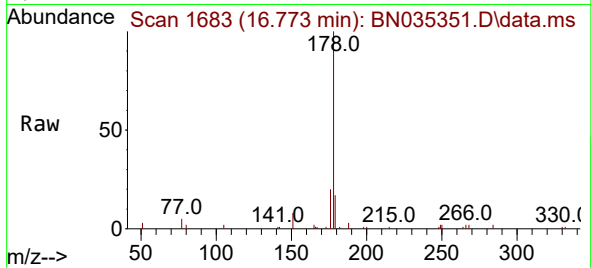




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

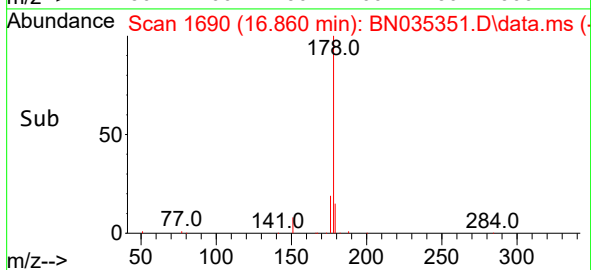
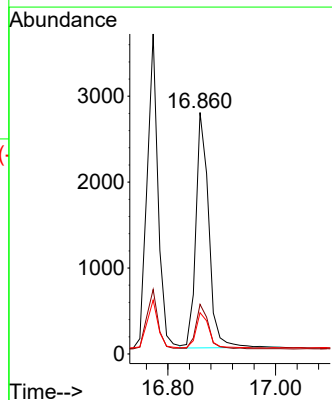
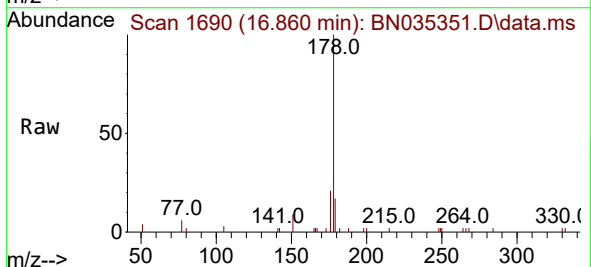
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

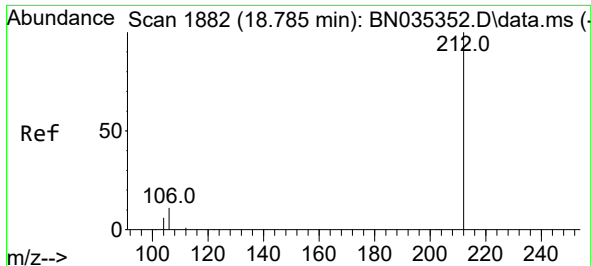
Tgt Ion:178 Resp: 5182
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5



#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

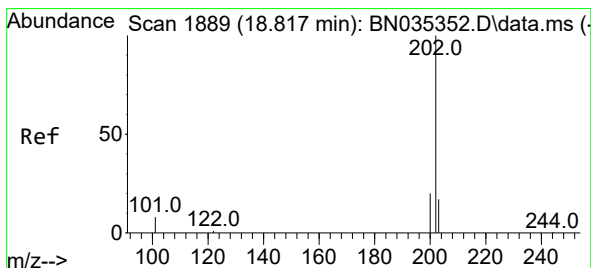
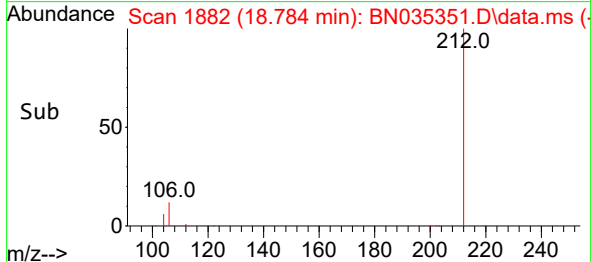
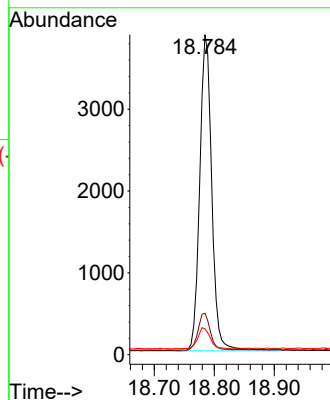
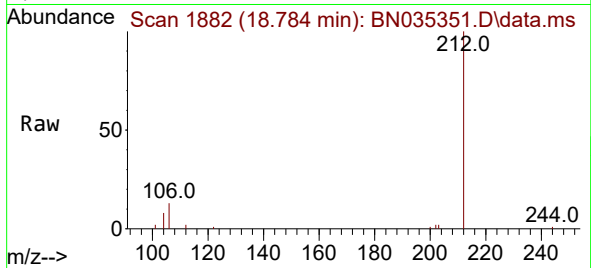




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

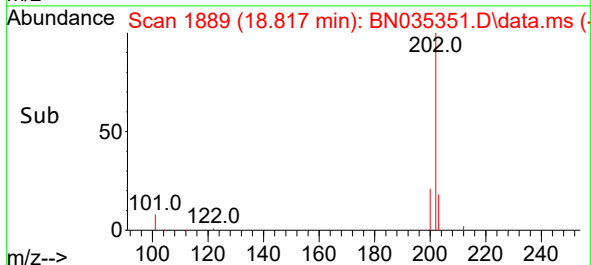
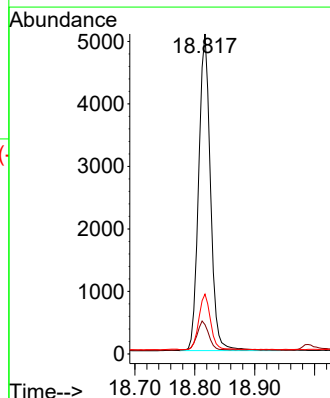
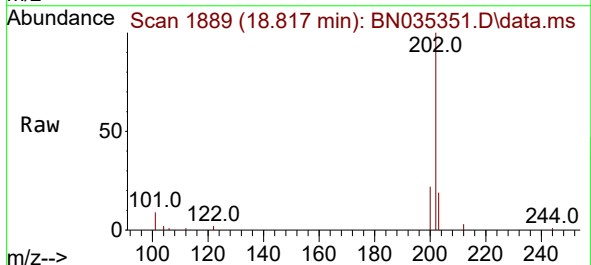
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

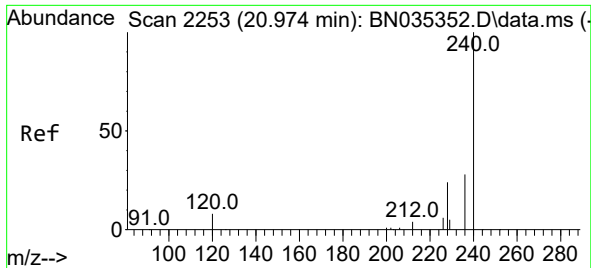
Tgt Ion:212 Resp: 5379
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.9 5.3 7.9



#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

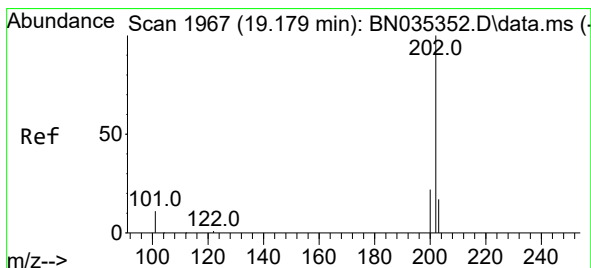
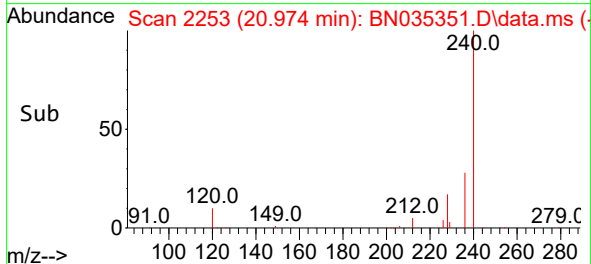
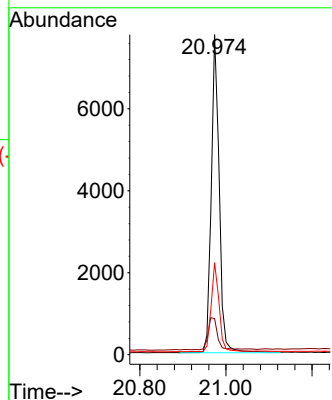
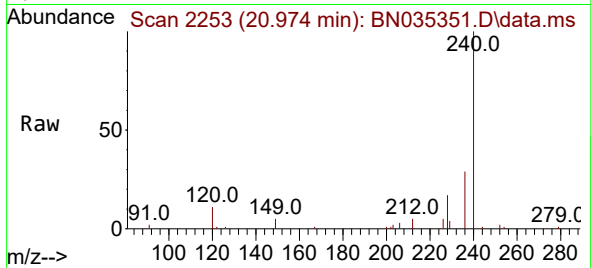




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

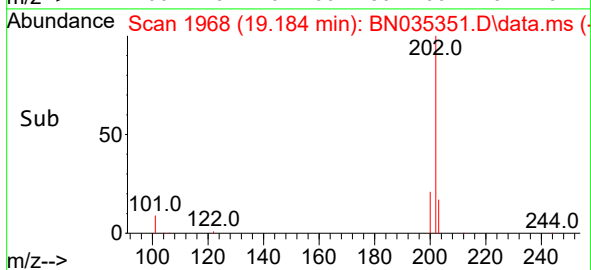
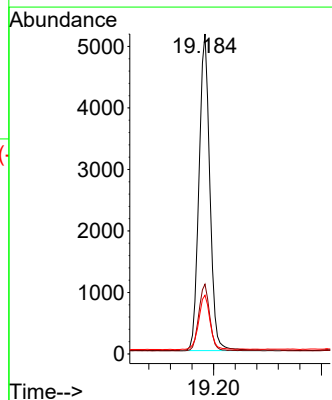
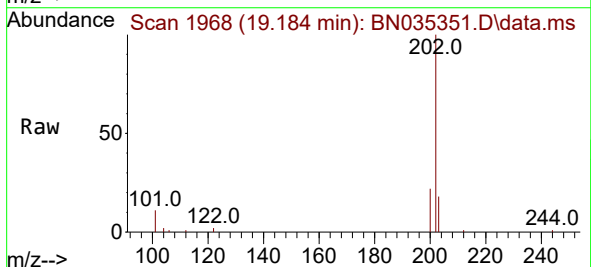
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

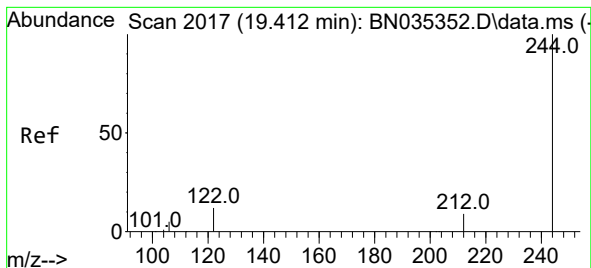
Tgt Ion:240 Resp: 9963
Ion Ratio Lower Upper
240 100
120 11.3 7.9 11.9
236 28.8 22.9 34.3



#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# 2017

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

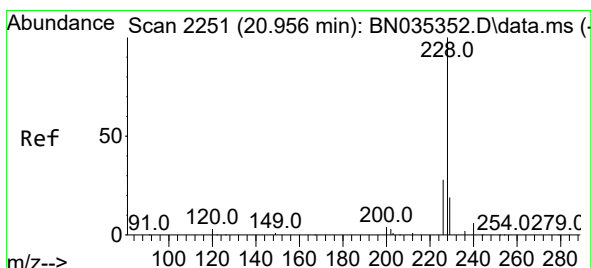
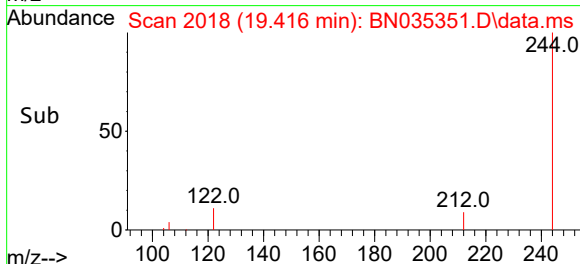
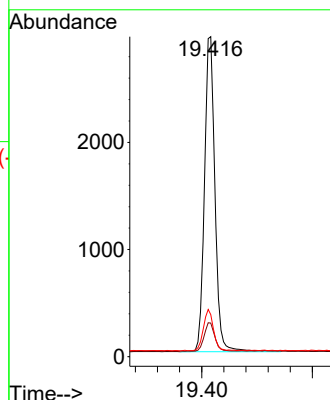
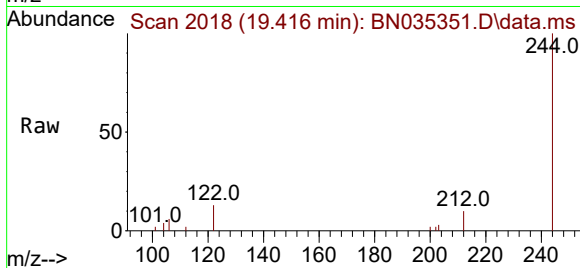
Tgt Ion:244 Resp: 3871

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

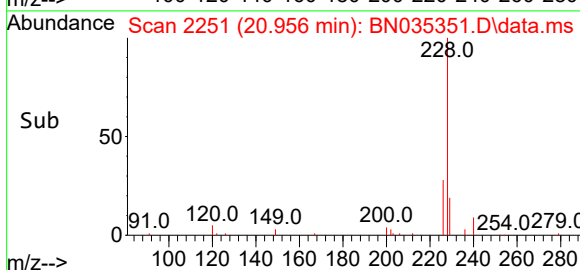
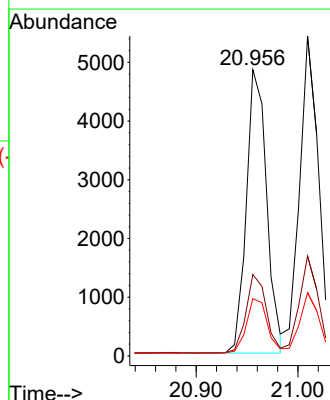
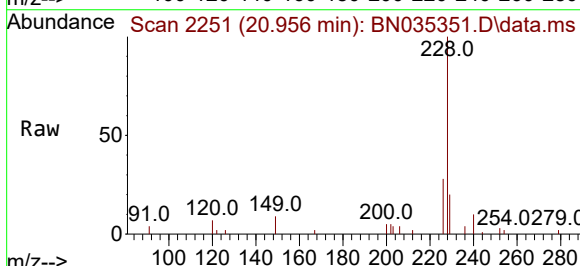
Tgt Ion:228 Resp: 6691

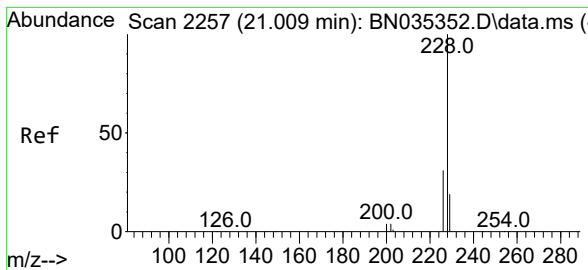
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

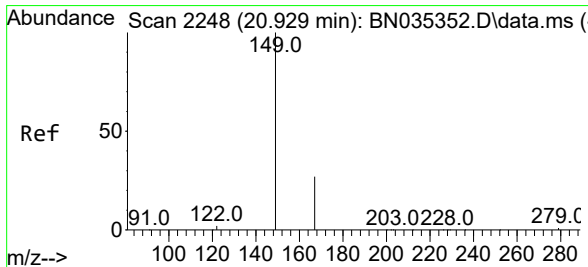
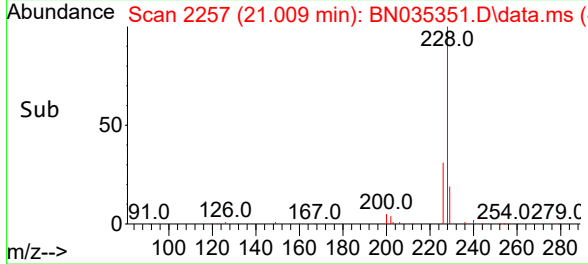
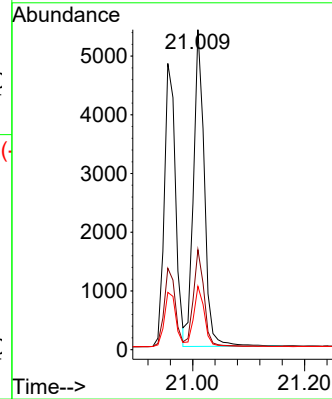
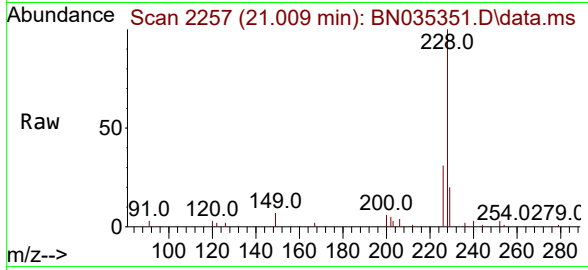
Tgt Ion:228 Resp: 7234

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

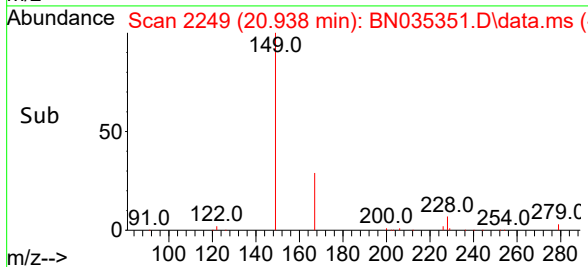
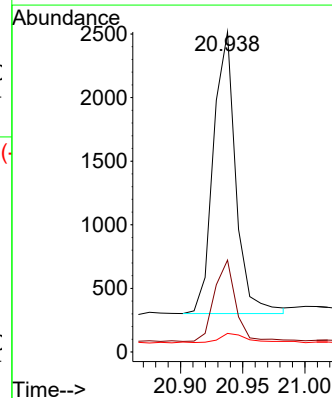
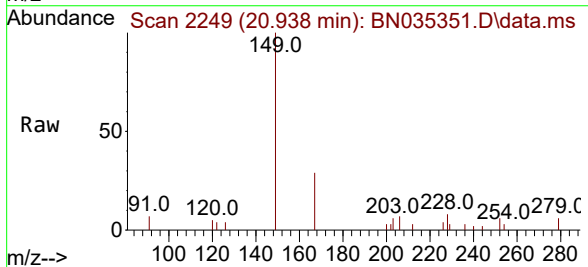
Tgt Ion:149 Resp: 2779

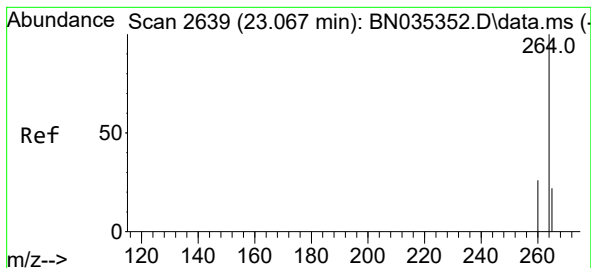
Ion Ratio Lower Upper

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

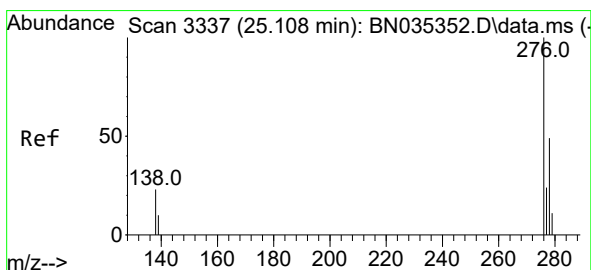
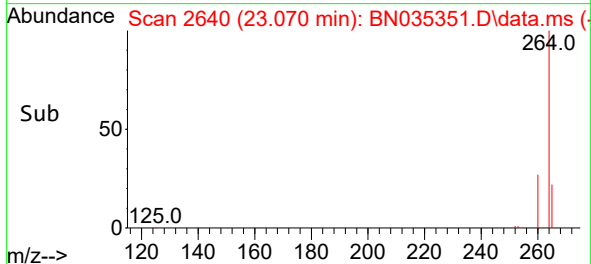
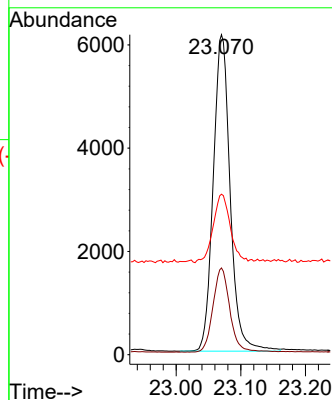
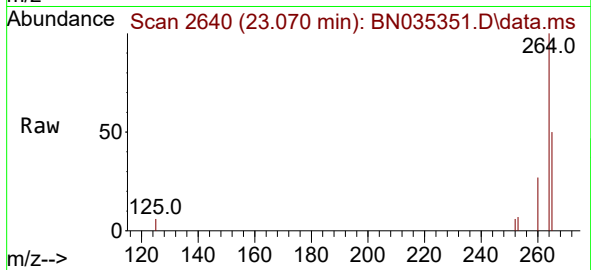
Tgt Ion:264 Resp: 11158

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

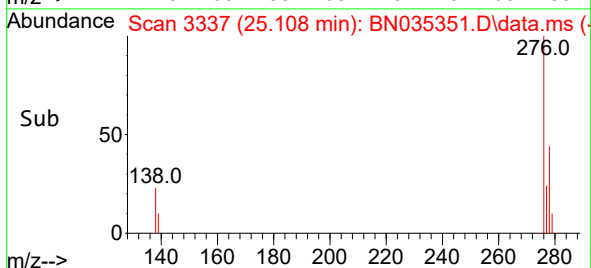
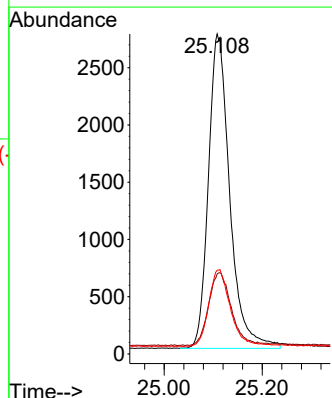
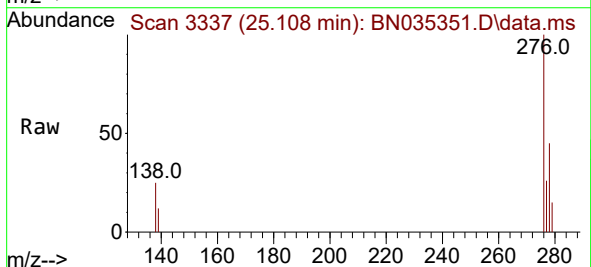
Tgt Ion:276 Resp: 8305

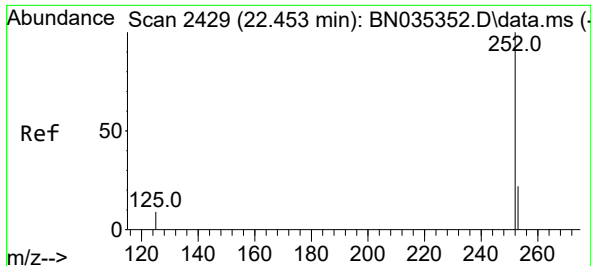
Ion Ratio Lower Upper

276 100

138 24.3 19.4 29.0

277 24.7 19.8 29.6

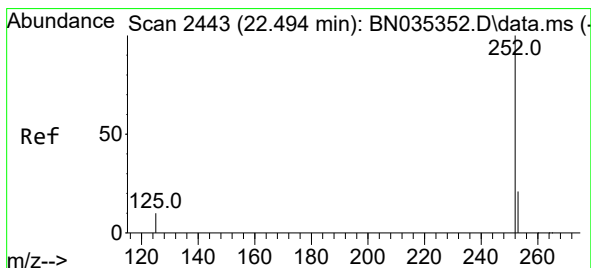
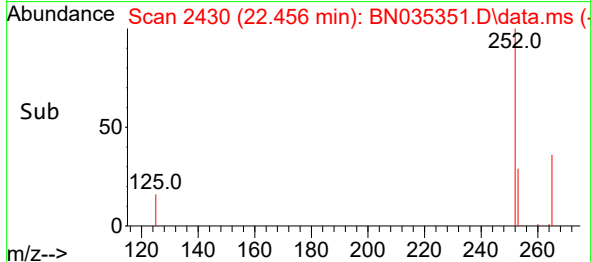
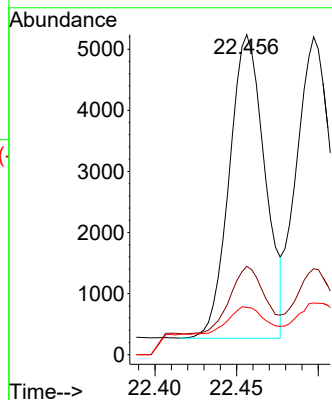
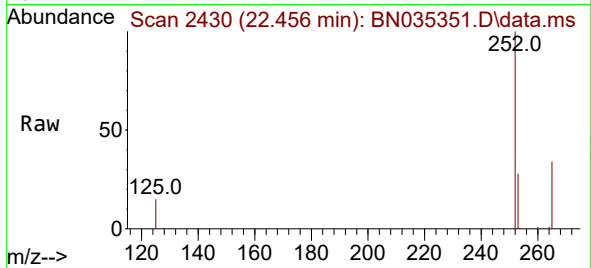




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

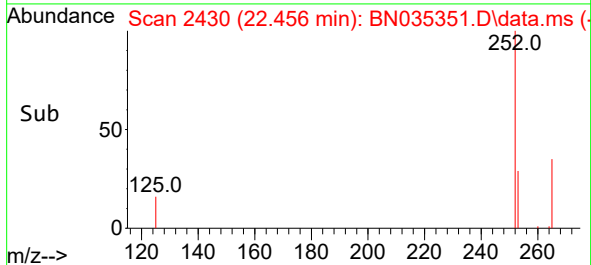
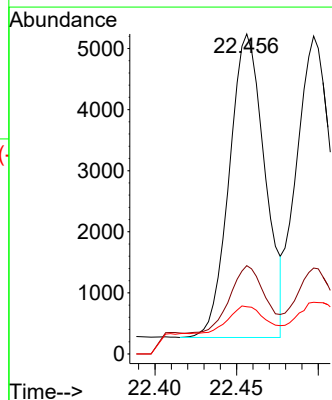
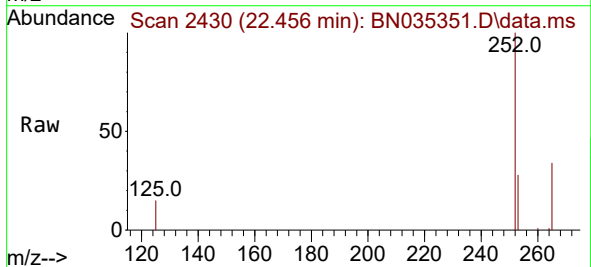
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

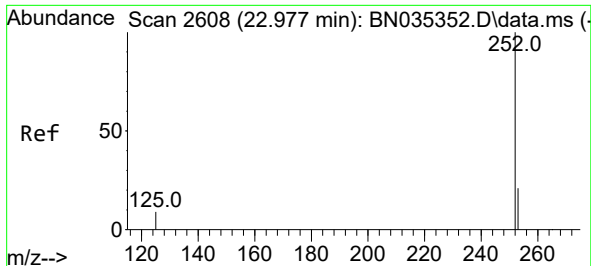
Tgt Ion:252 Resp: 7522
Ion Ratio Lower Upper
252 100
253 27.6 19.6 29.4
125 14.8 9.6 14.4#



#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# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

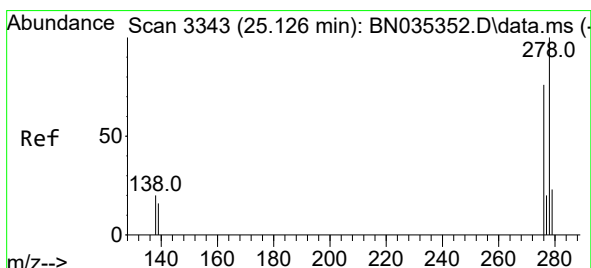
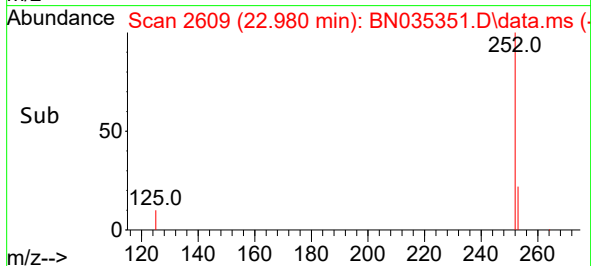
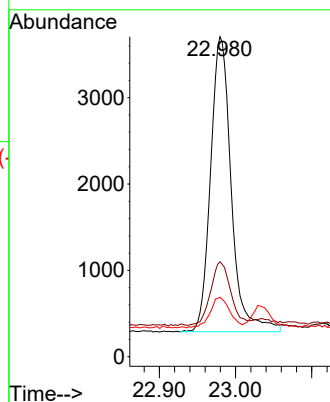
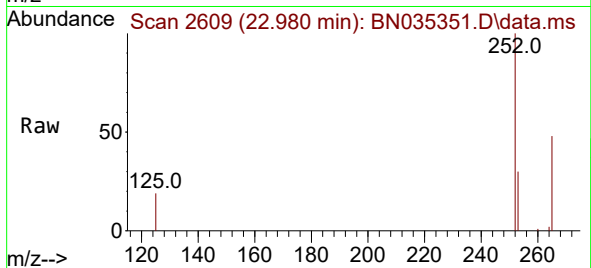
Tgt Ion:252 Resp: 6450

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

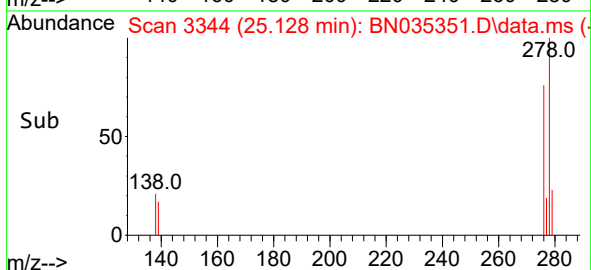
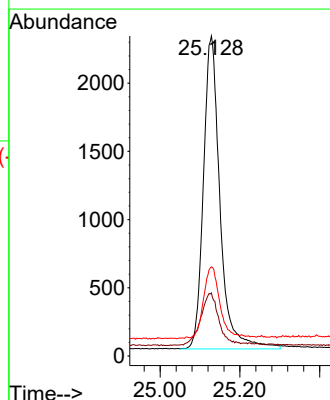
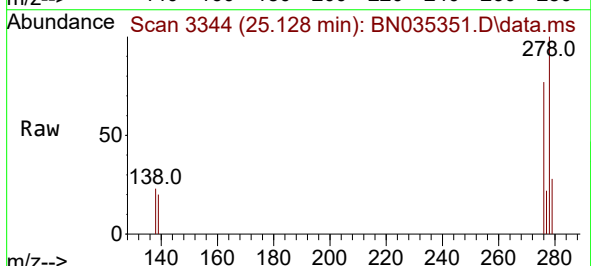
Tgt Ion:278 Resp: 6620

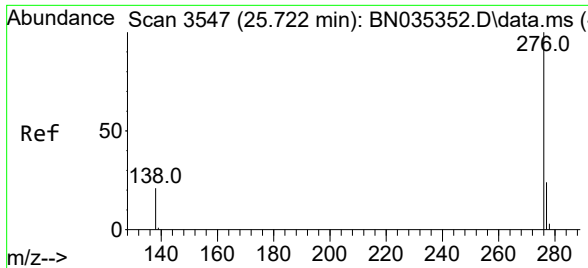
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

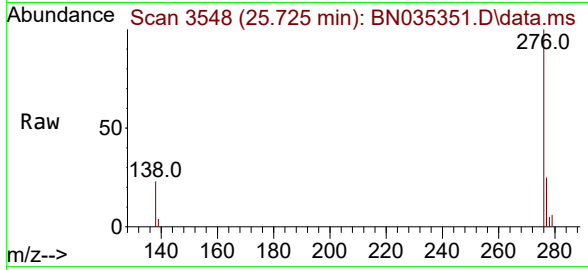
279 27.9 20.5 30.7



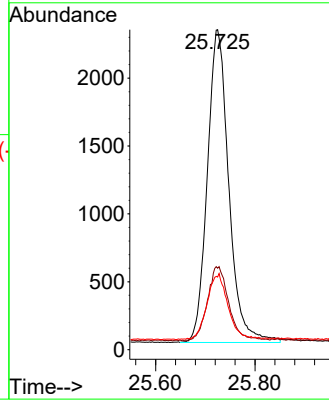
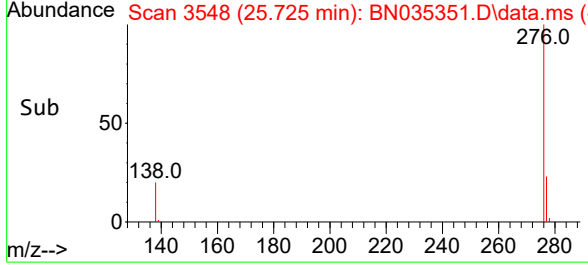


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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)

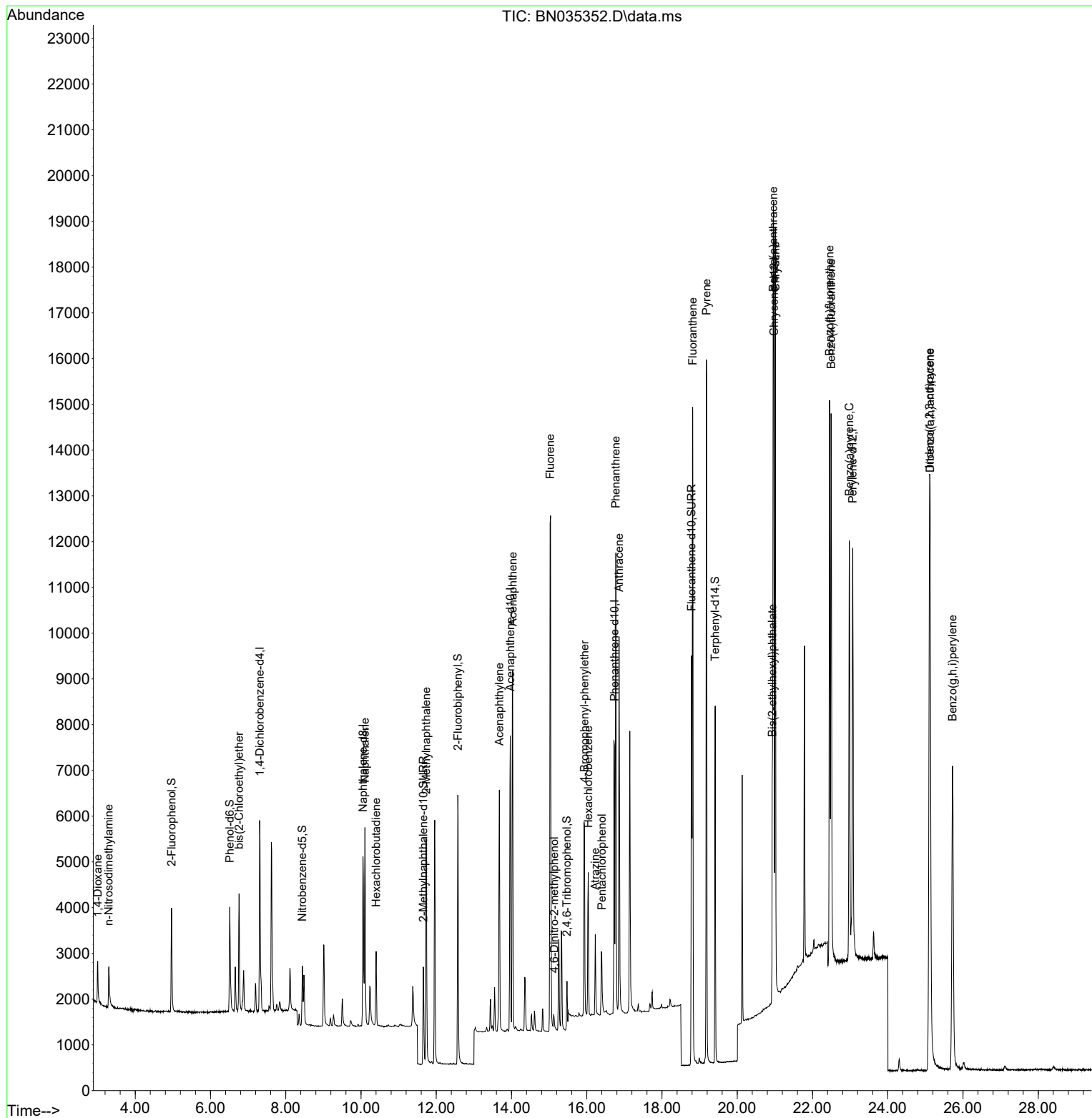
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng	0.00
35) Perylene-d12	23.067	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

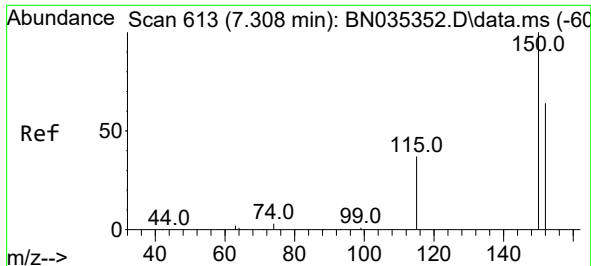
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

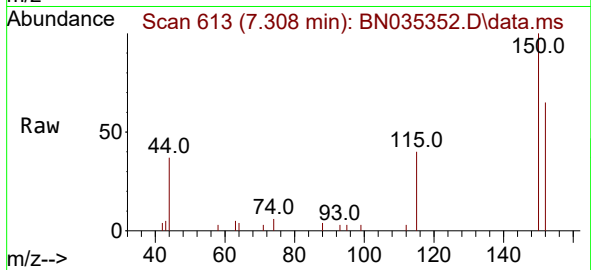
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



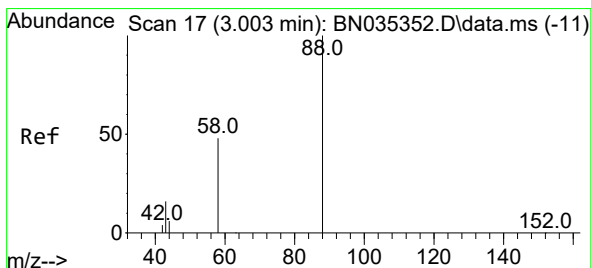
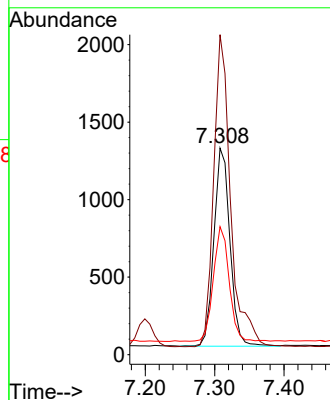
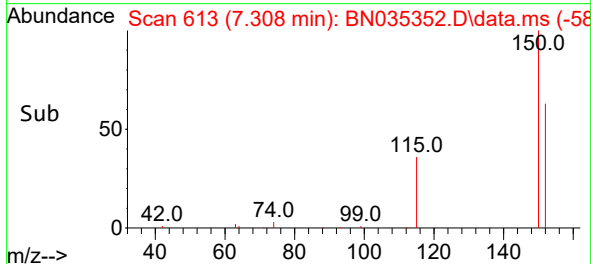


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

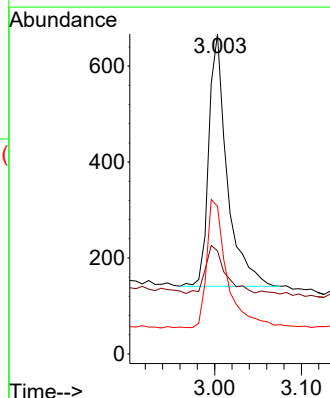
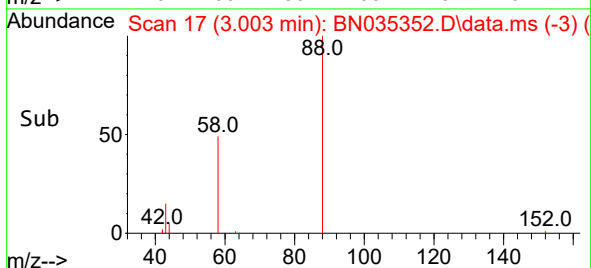
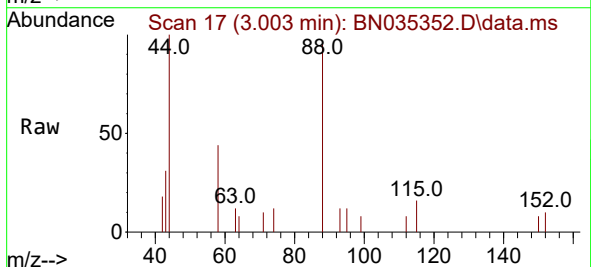


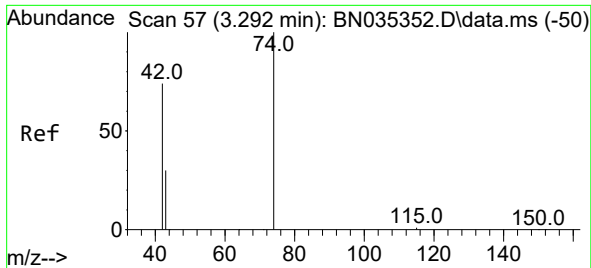
Tgt Ion:152 Resp: 2048
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4



#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

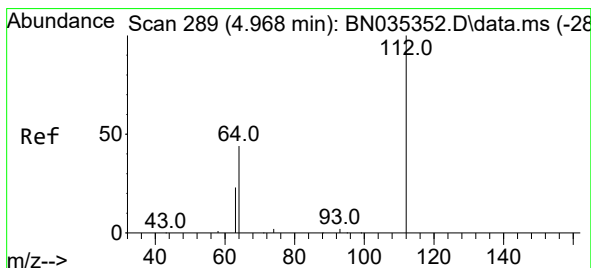
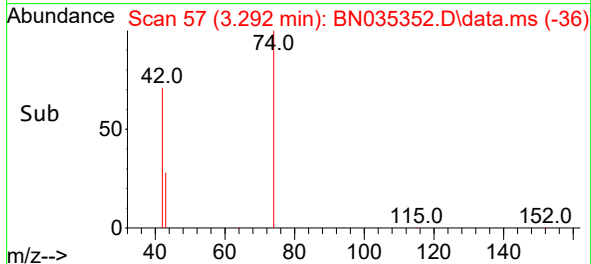
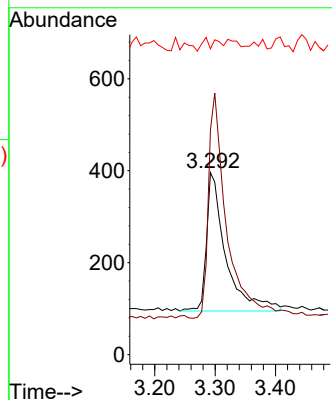
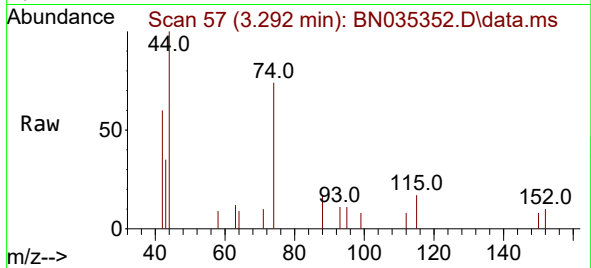




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

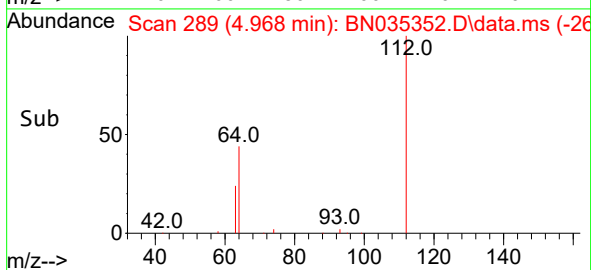
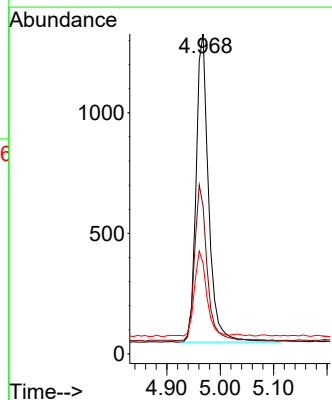
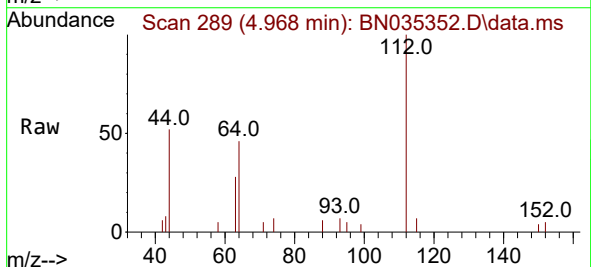
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

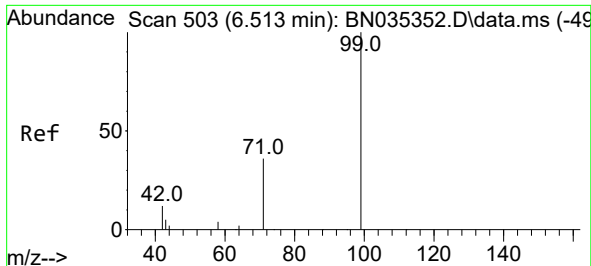
Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4



#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

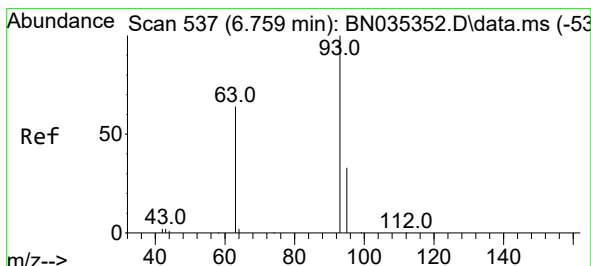
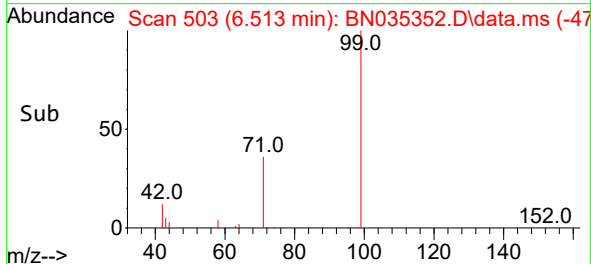
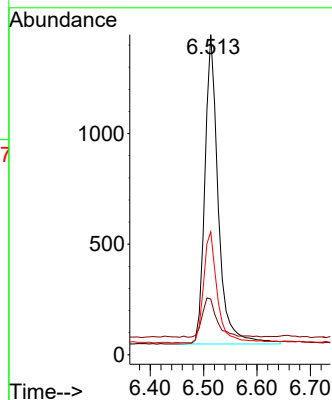
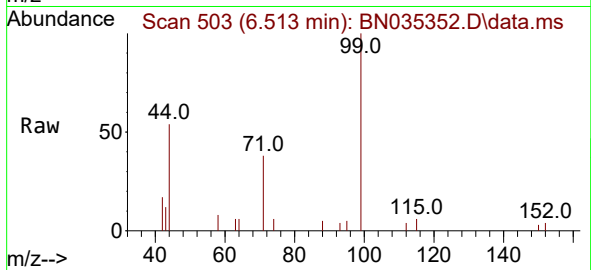




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

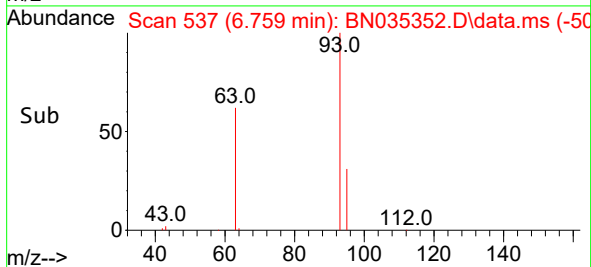
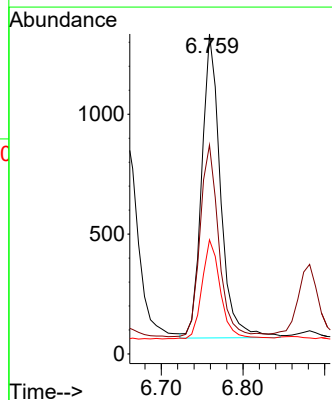
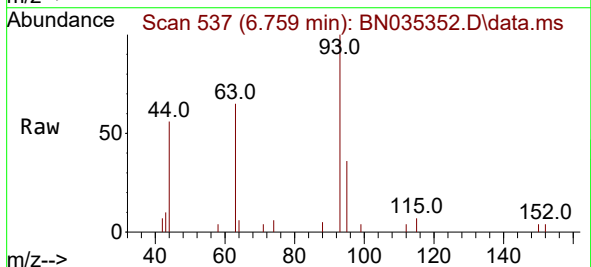
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

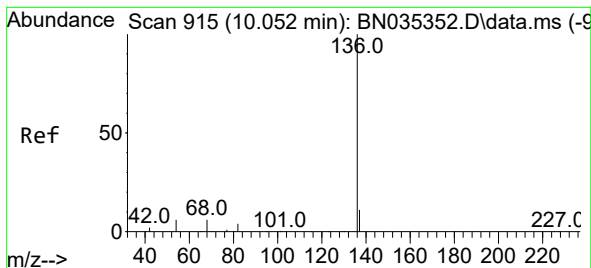
Tgt Ion: 99 Resp: 2444
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.6 29.3 43.9



#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# 915

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

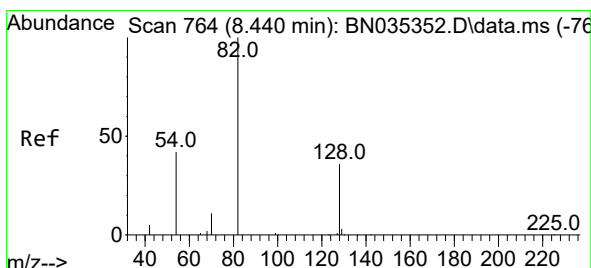
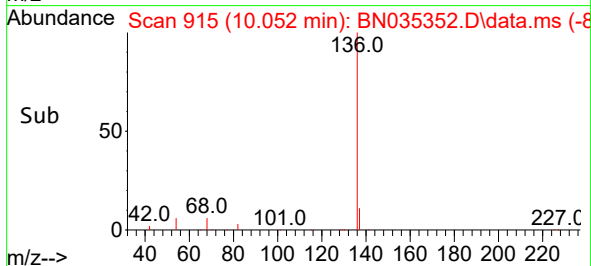
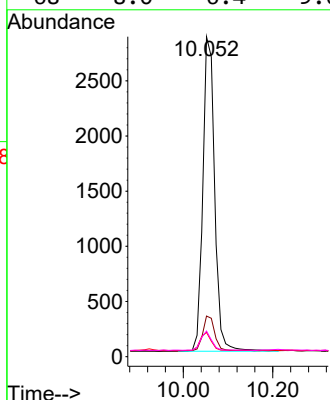
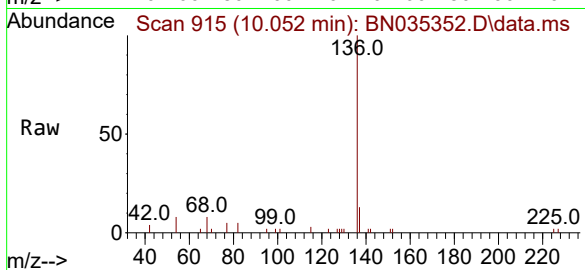
Ion Ratio Lower Upper

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

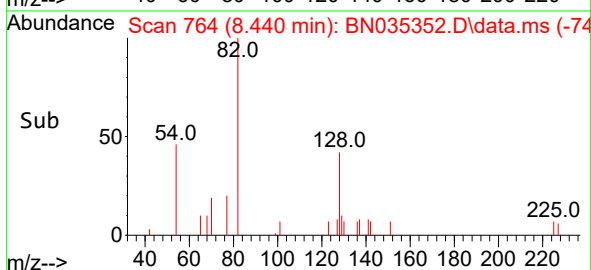
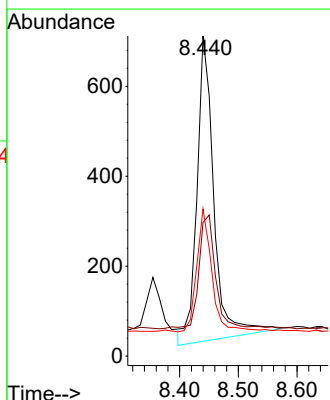
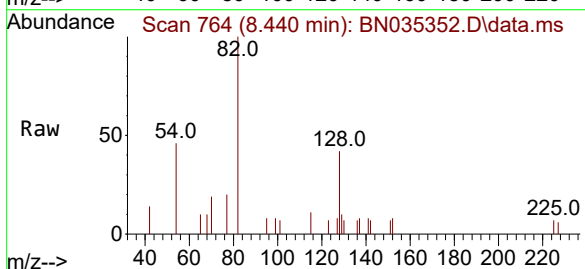
Tgt Ion: 82 Resp: 1371

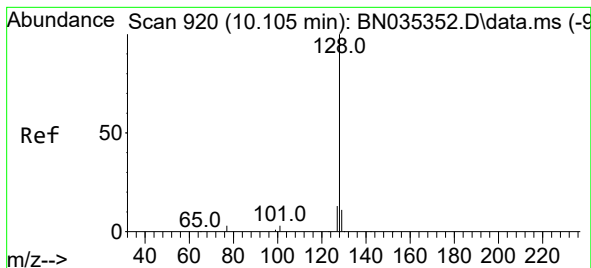
Ion Ratio Lower Upper

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# 91

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

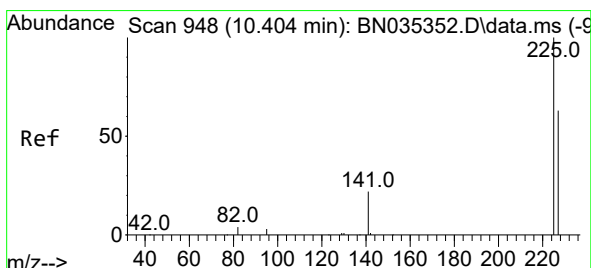
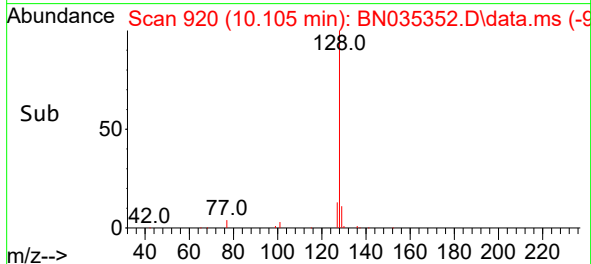
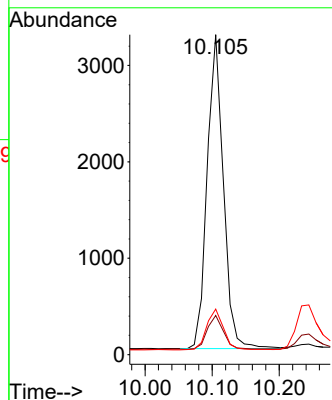
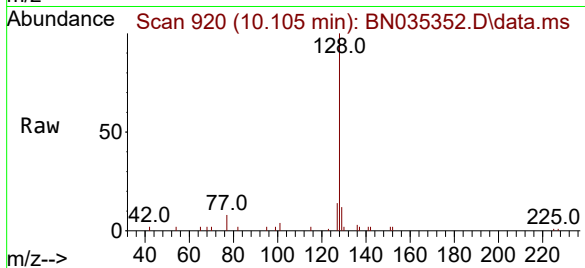
Tgt Ion:128 Resp: 5475

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

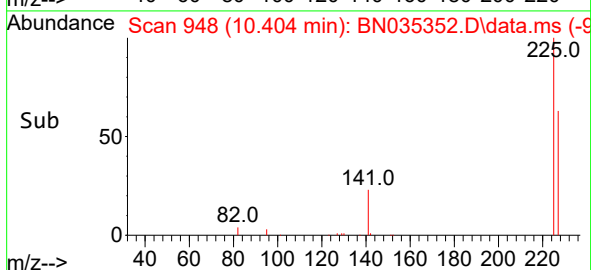
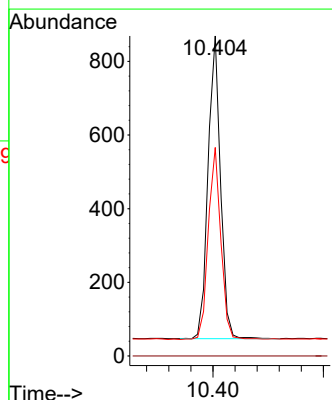
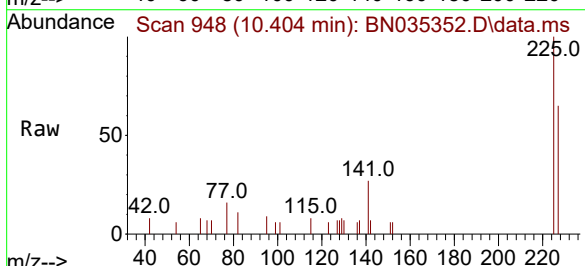
Tgt Ion:225 Resp: 1292

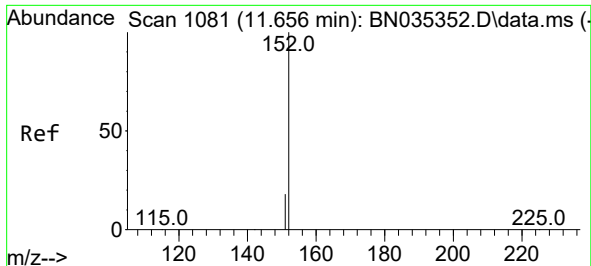
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

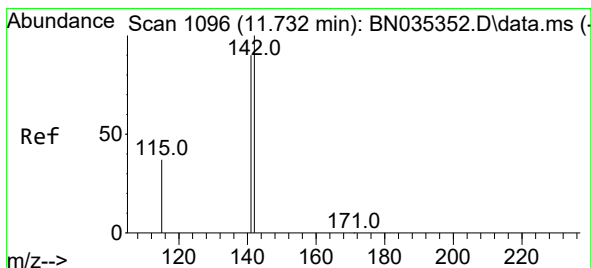
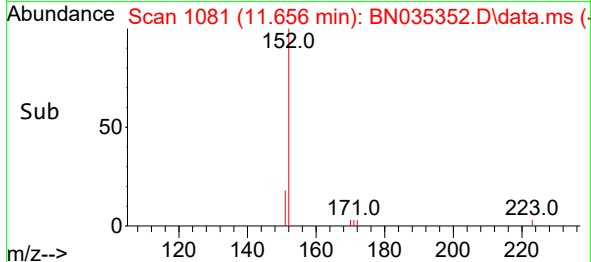
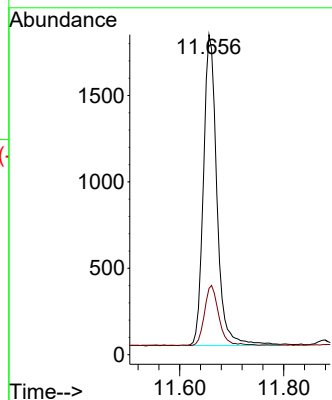
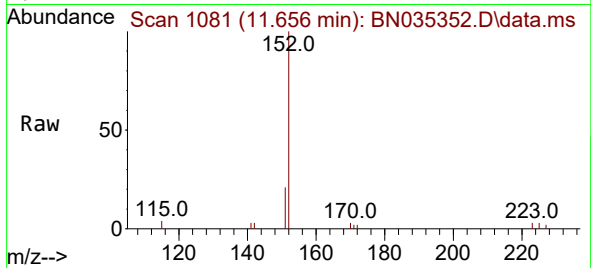




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

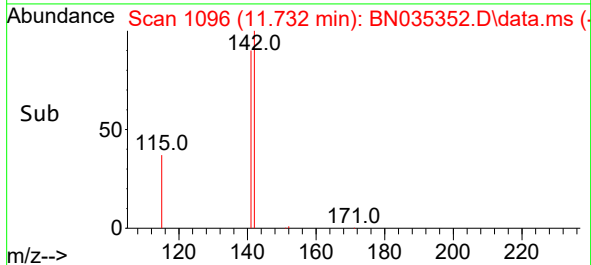
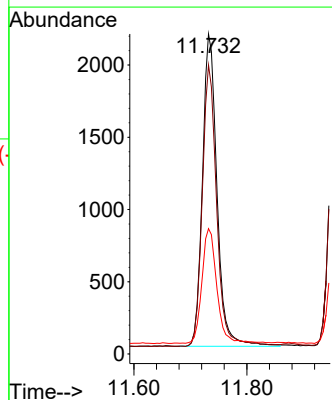
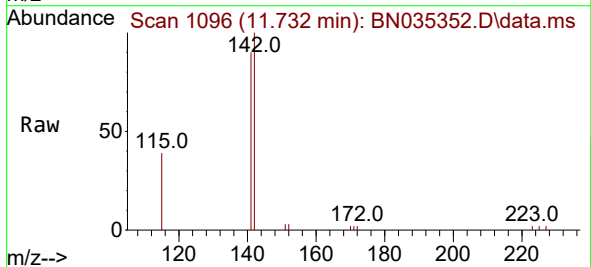
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

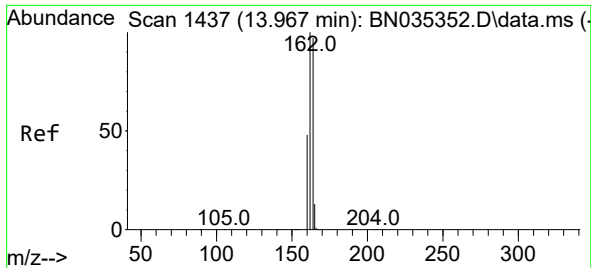
Tgt Ion:152 Resp: 3237
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

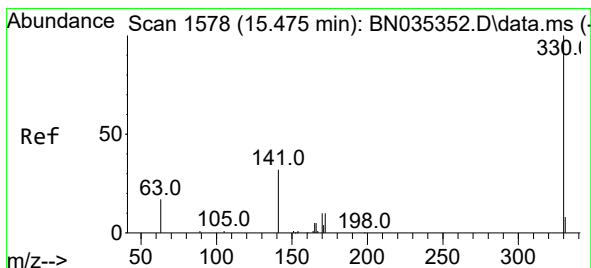
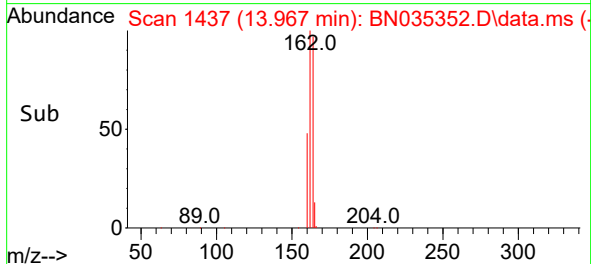
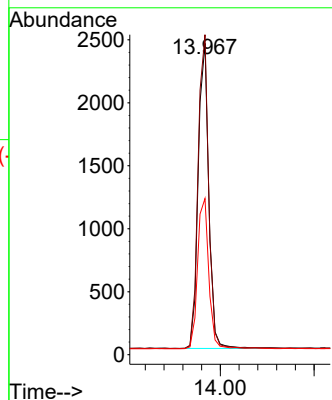
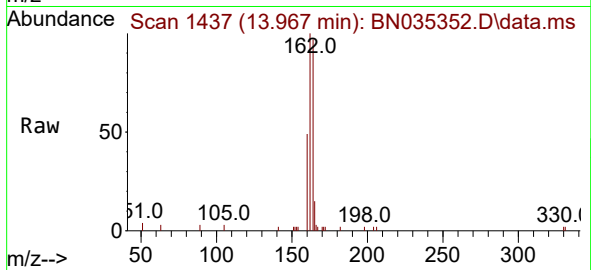




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.967 min Scan# 1437
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

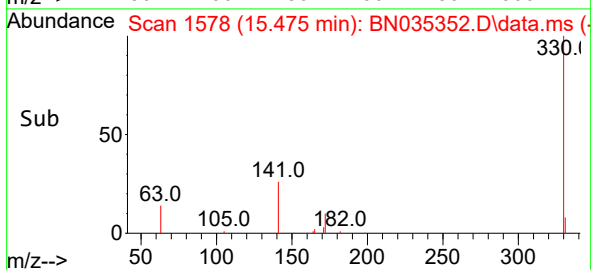
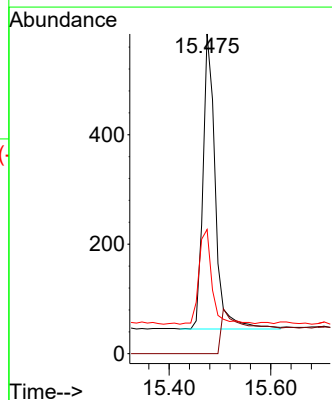
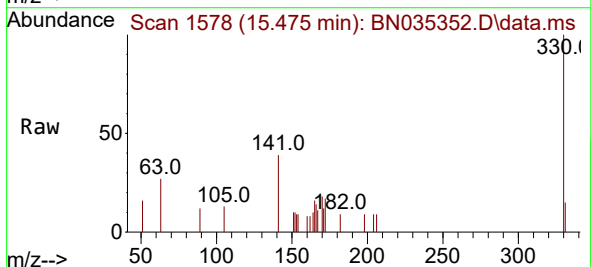
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

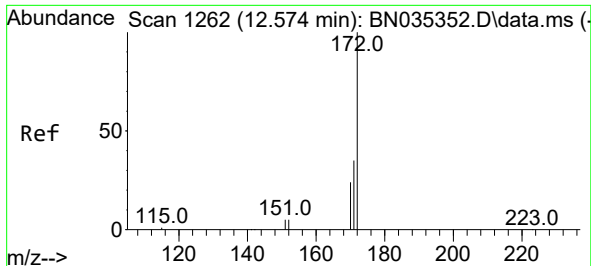
Tgt Ion:164 Resp: 3799
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.2 123.2
 160 50.1 40.1 60.1



#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

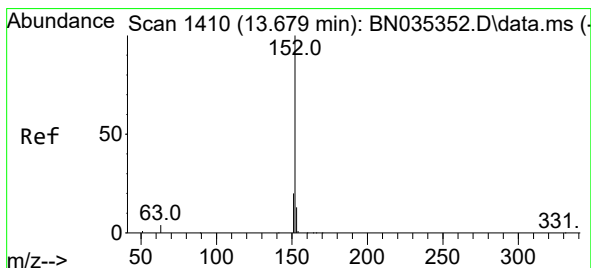
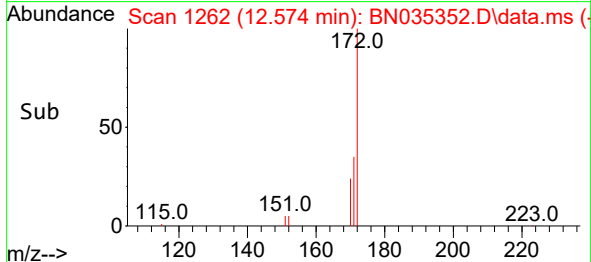
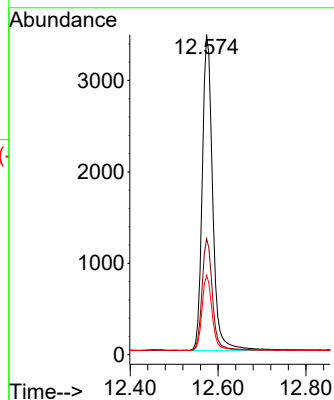
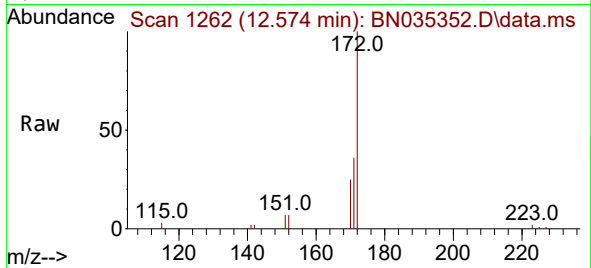




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

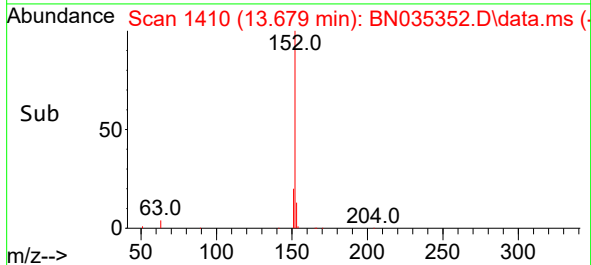
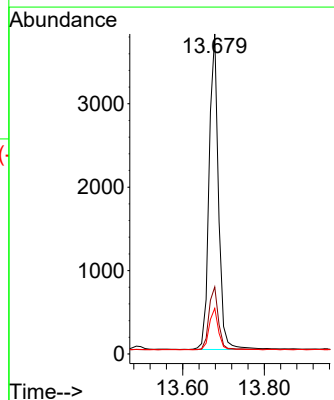
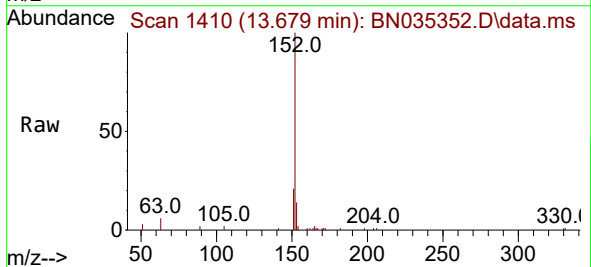
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

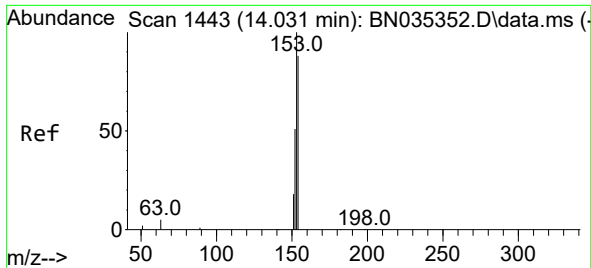
Tgt Ion:172 Resp: 5735
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.8 19.8 29.8



#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

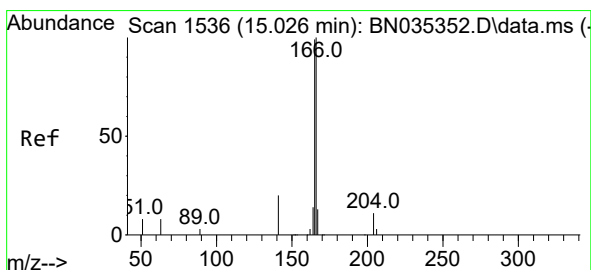
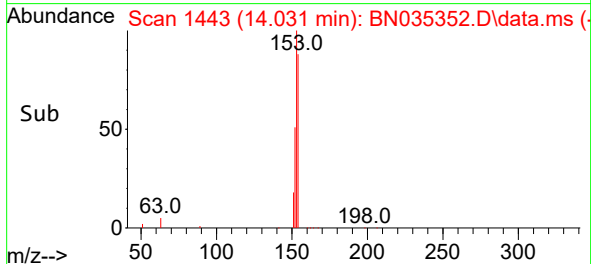
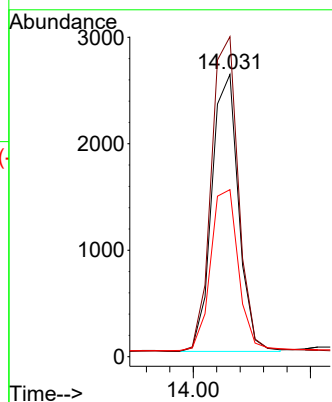
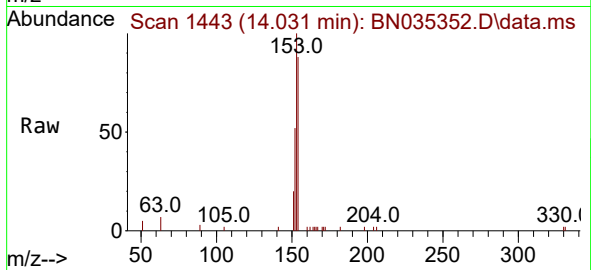




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

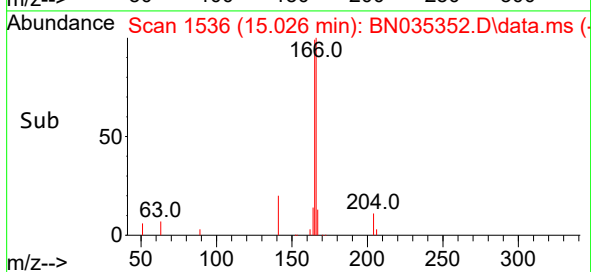
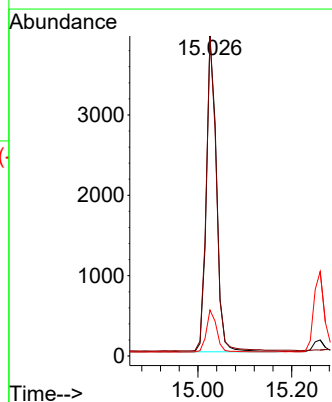
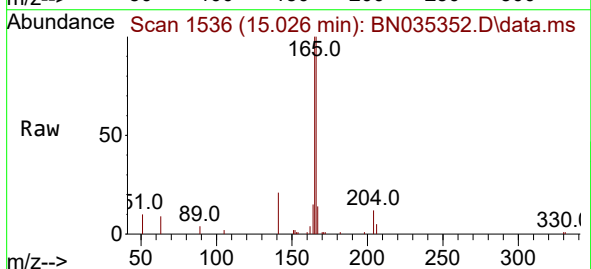
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

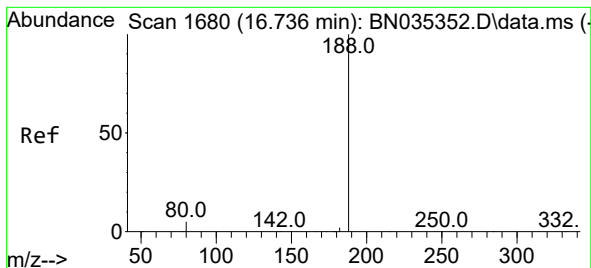
Tgt Ion:154 Resp: 4125
Ion Ratio Lower Upper
154 100
153 115.8 92.6 139.0
152 61.3 49.0 73.6



#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

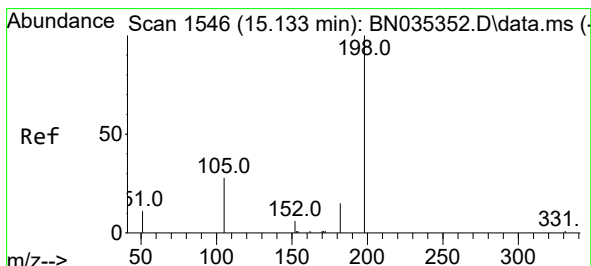
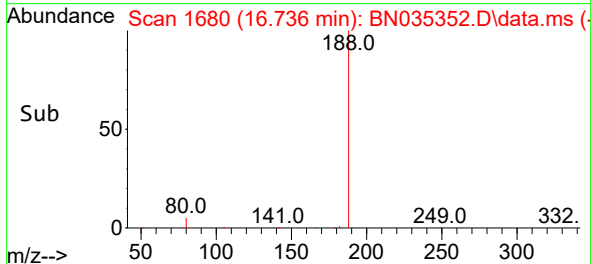
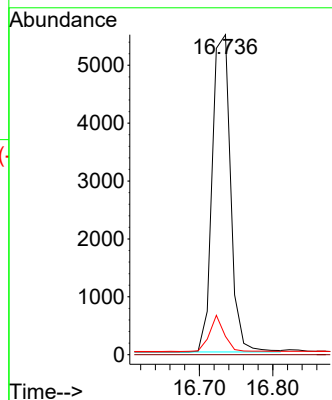
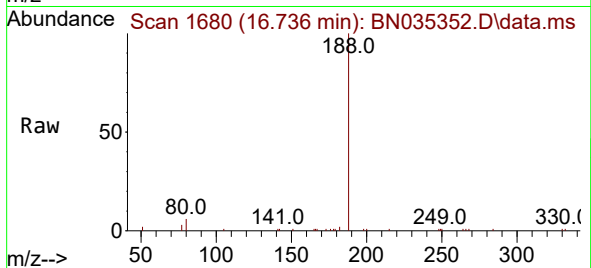
Tgt Ion:188 Resp: 9490

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

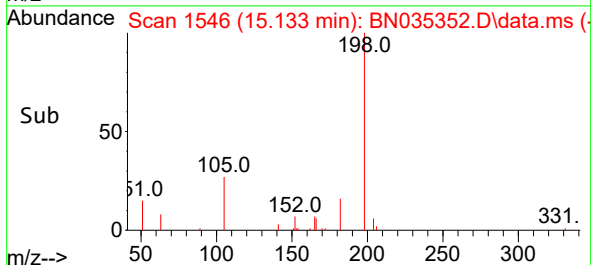
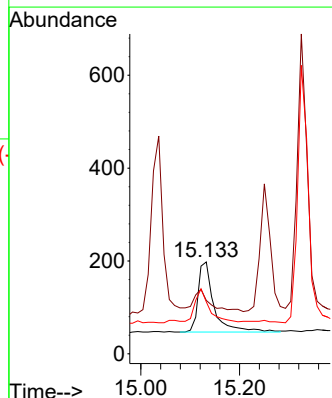
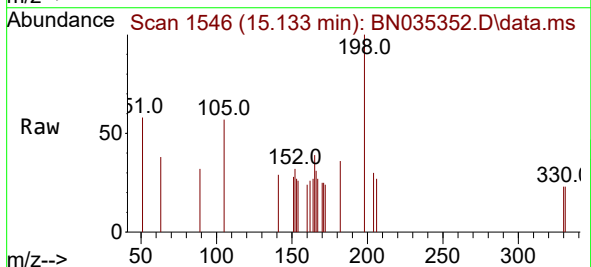
Tgt Ion:198 Resp: 337

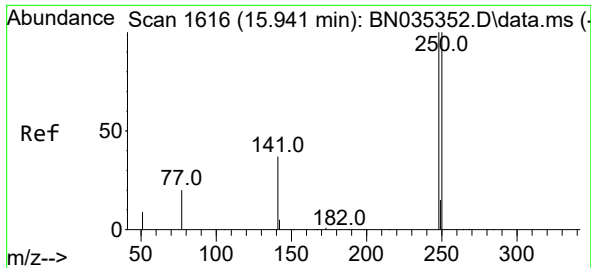
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9

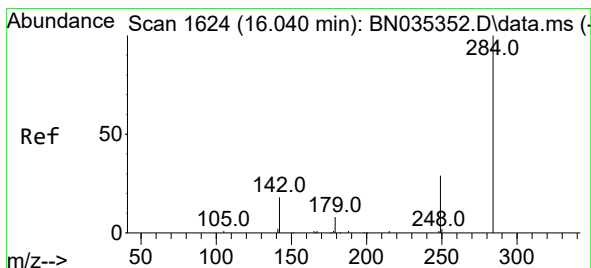
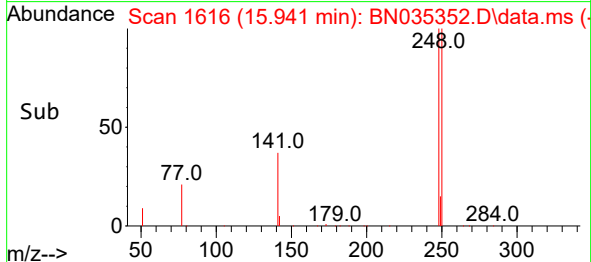
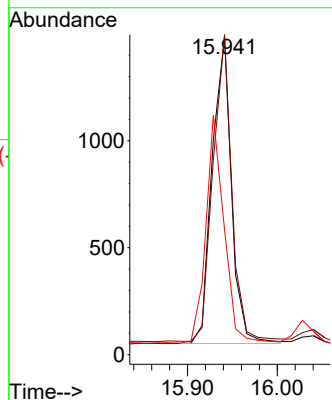
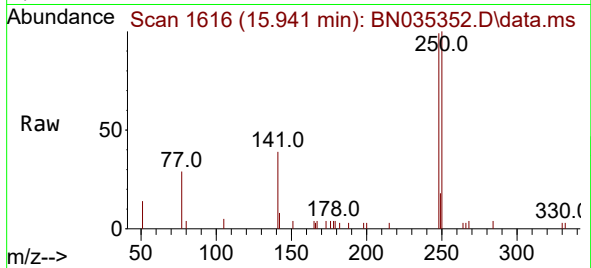




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

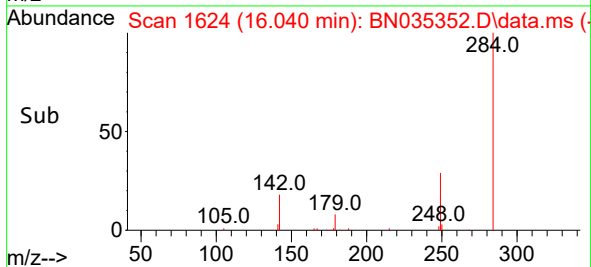
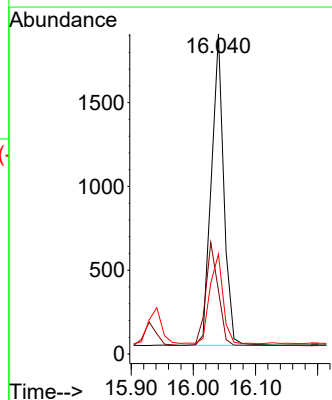
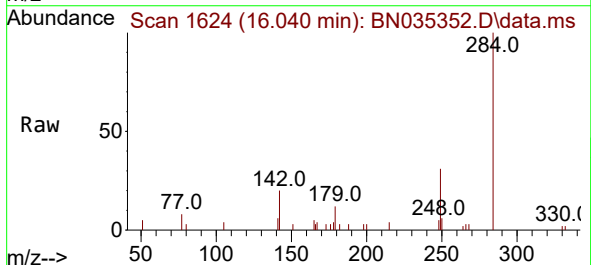
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

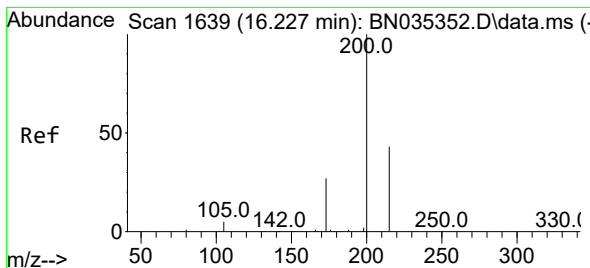
Tgt Ion:248 Resp: 2146
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3



#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# 1639

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

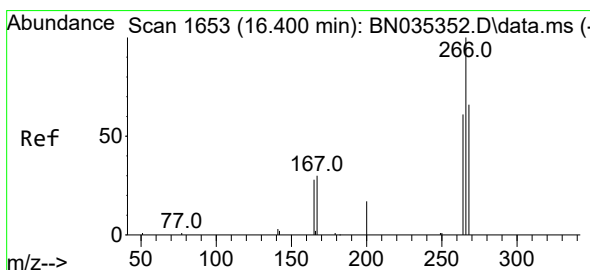
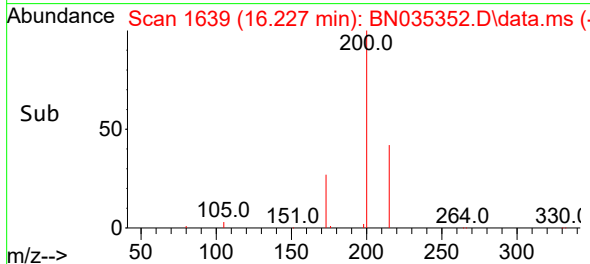
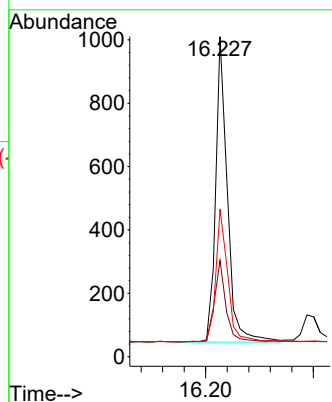
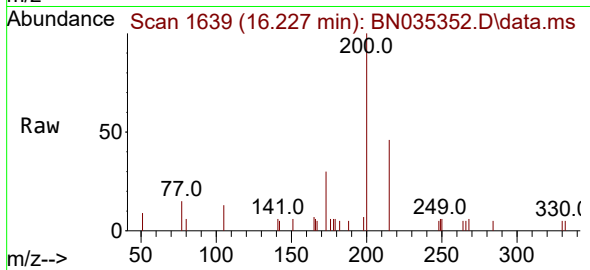
Tgt Ion:200 Resp: 1461

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

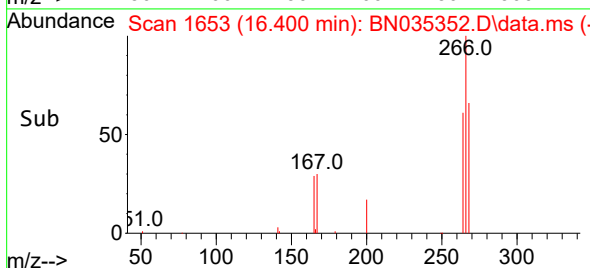
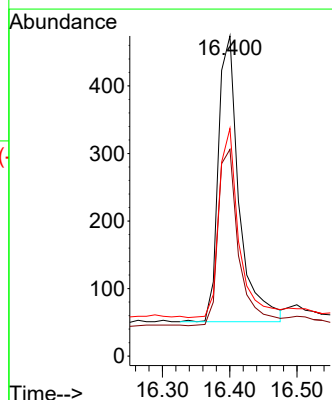
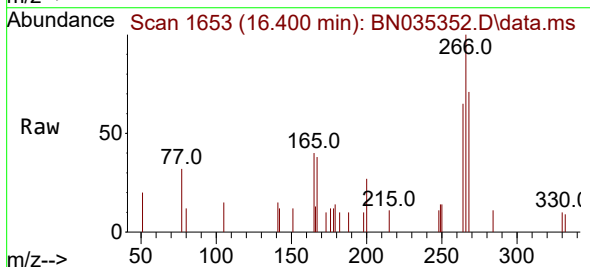
Tgt Ion:266 Resp: 906

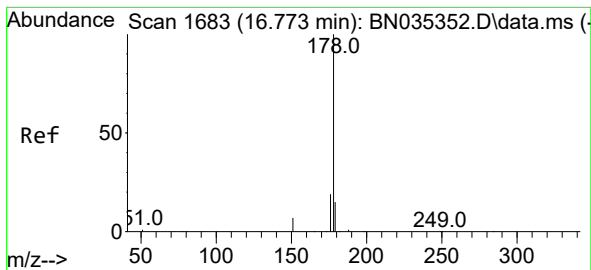
Ion Ratio Lower Upper

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# 1683

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

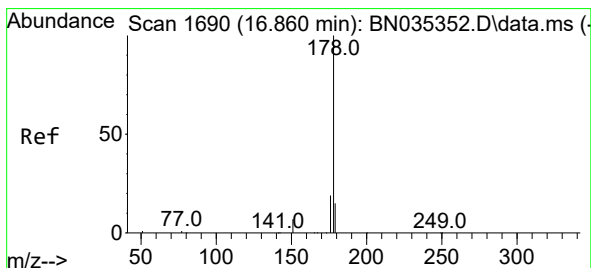
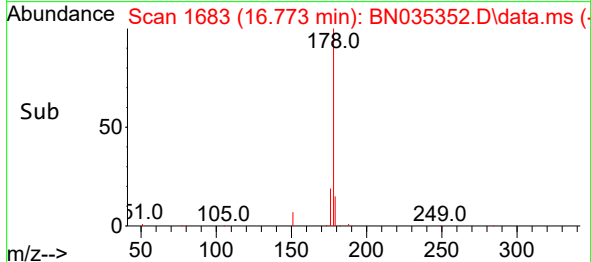
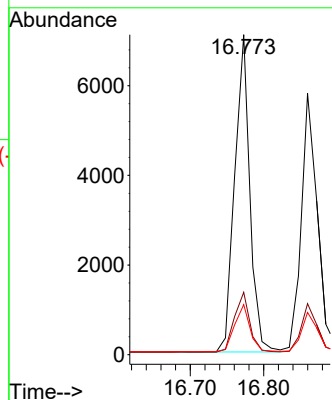
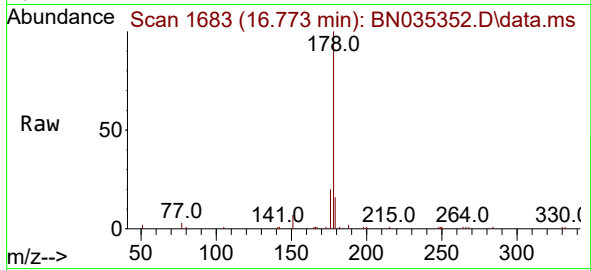
Tgt Ion:178 Resp: 10127

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

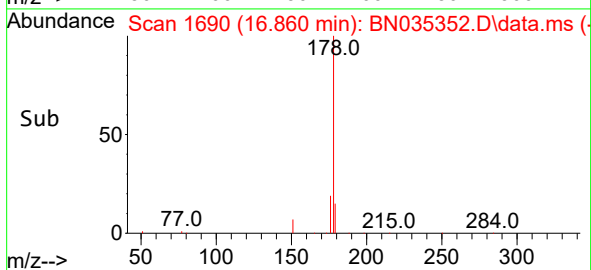
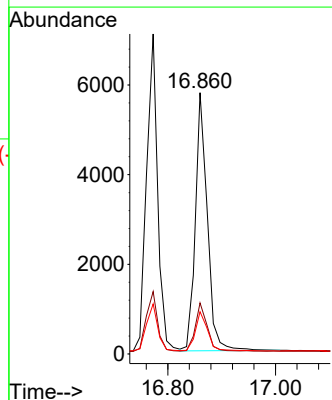
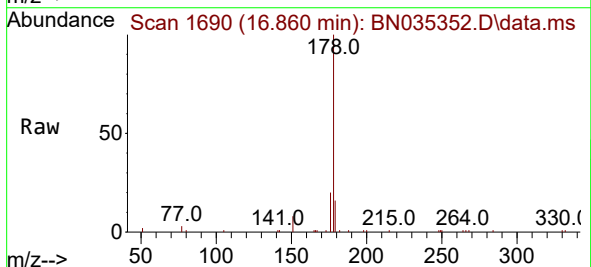
Tgt Ion:178 Resp: 8921

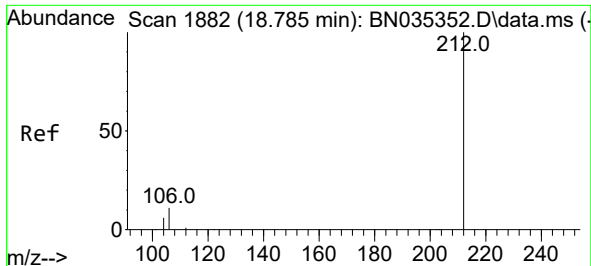
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.7 12.6 18.8

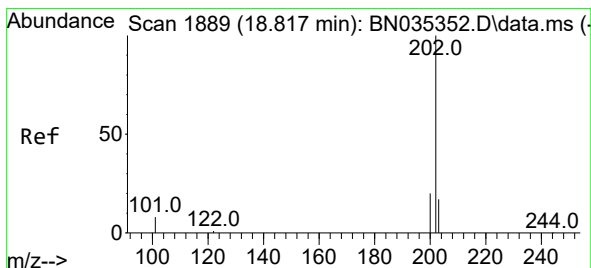
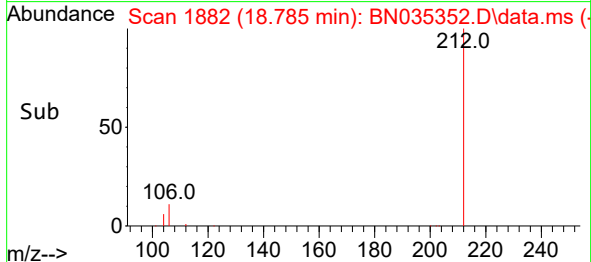
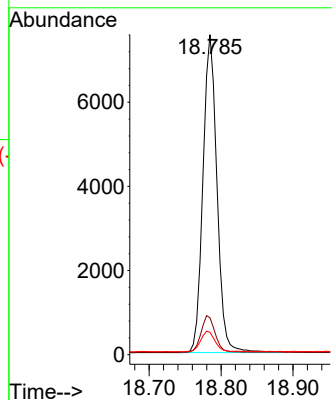
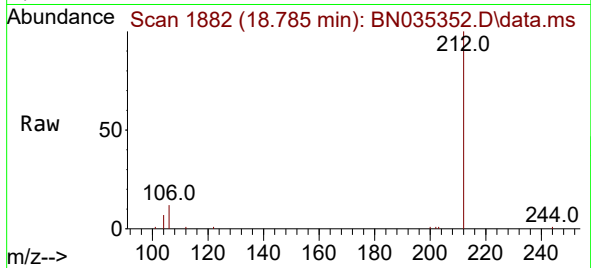




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

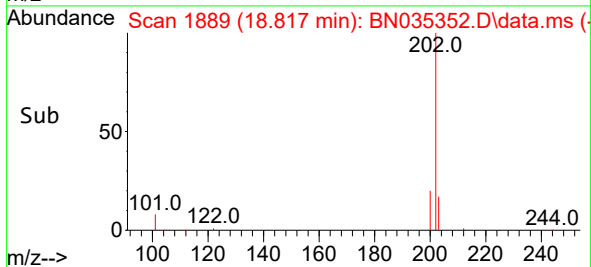
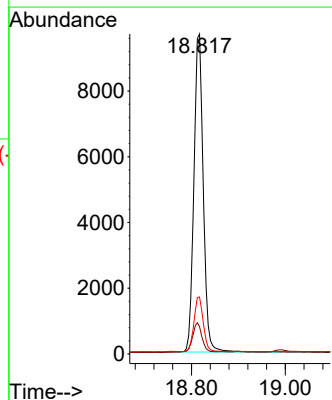
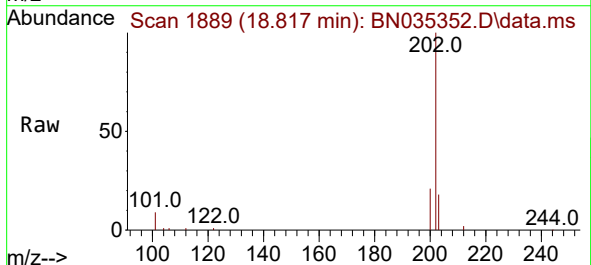
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

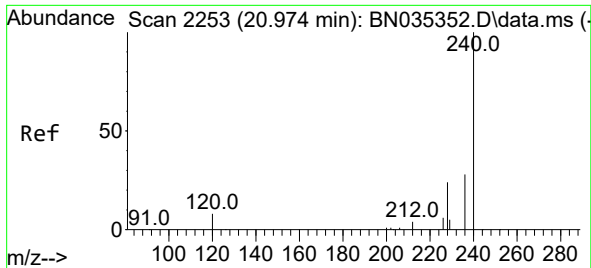
Tgt Ion:212 Resp: 10223
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#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

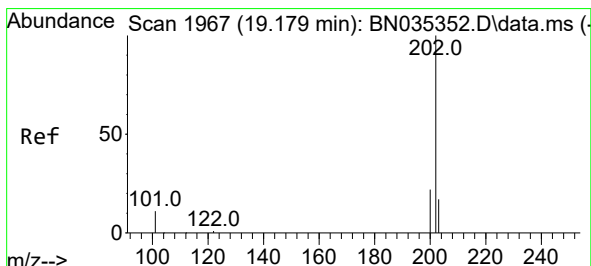
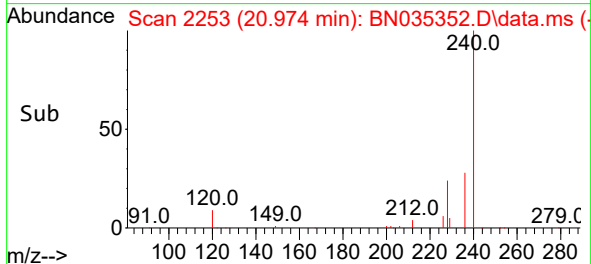
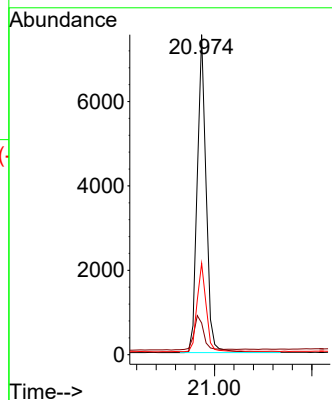
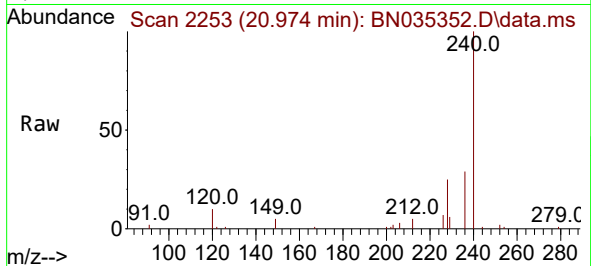




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

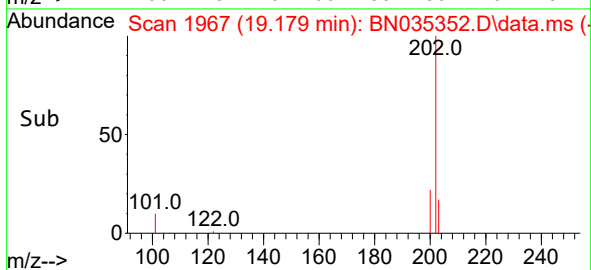
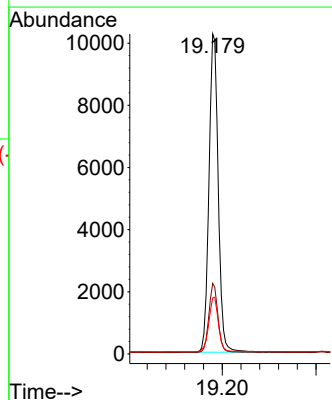
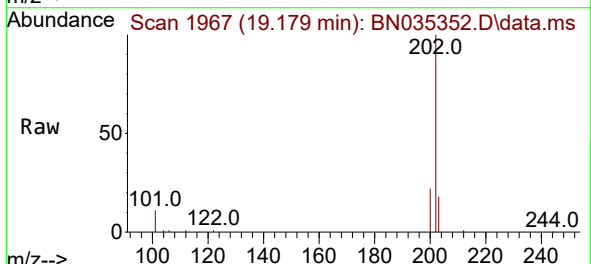
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

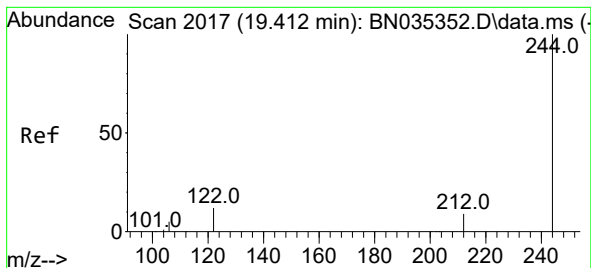
Tgt Ion:240 Resp: 9527
Ion Ratio Lower Upper
240 100
120 9.9 7.9 11.9
236 28.6 22.9 34.3



#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# 2017

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

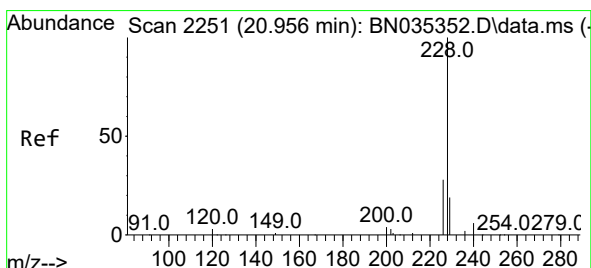
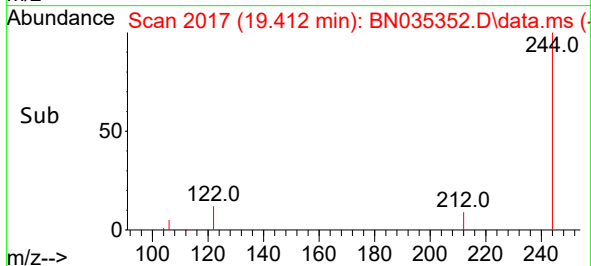
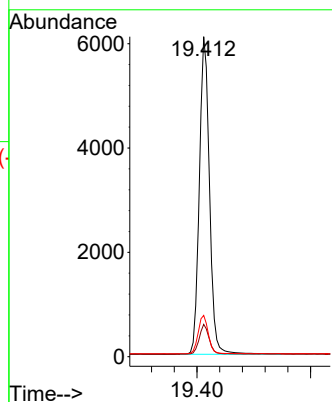
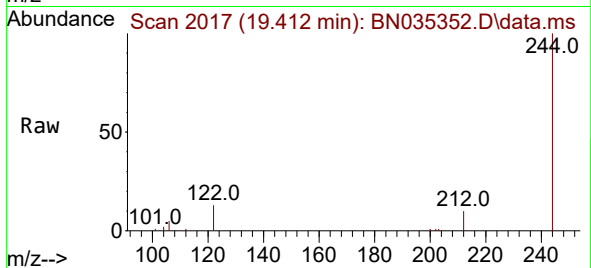
Tgt Ion:244 Resp: 7533

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

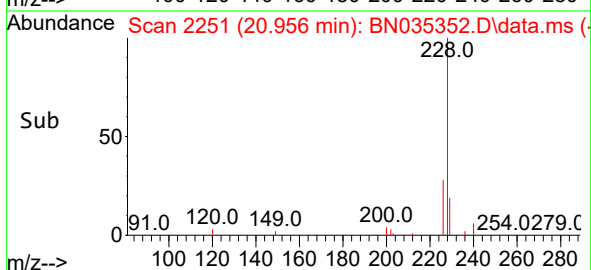
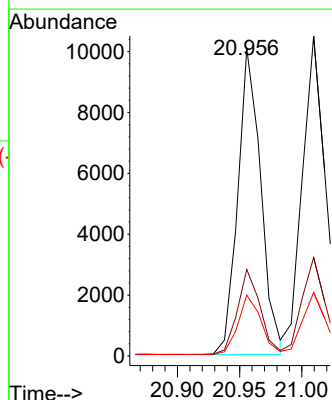
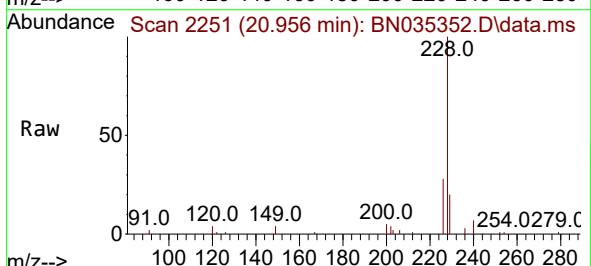
Tgt Ion:228 Resp: 12908

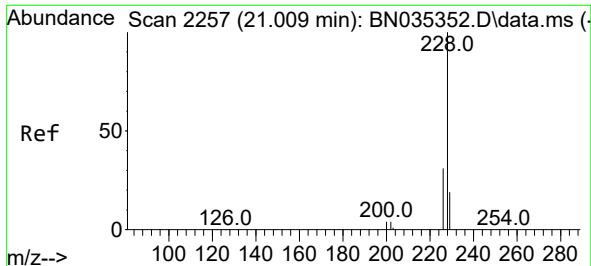
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 19.8 15.8 23.8

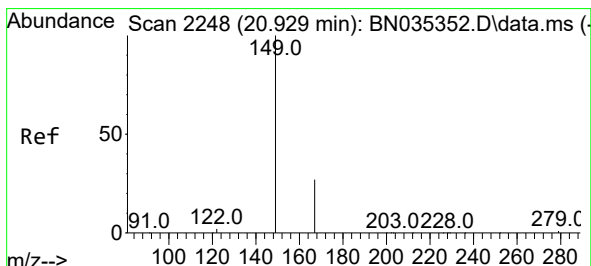
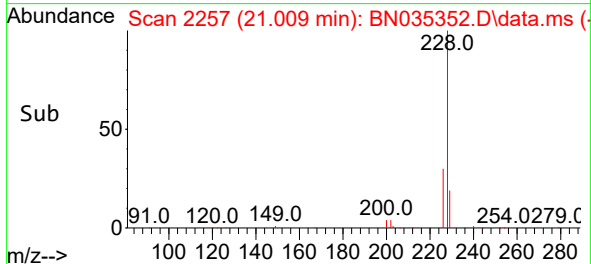
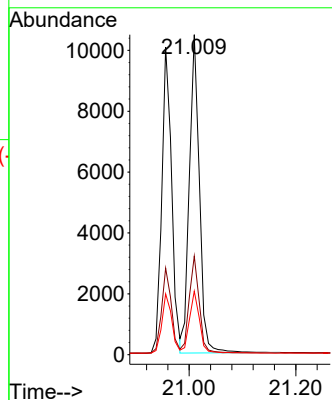
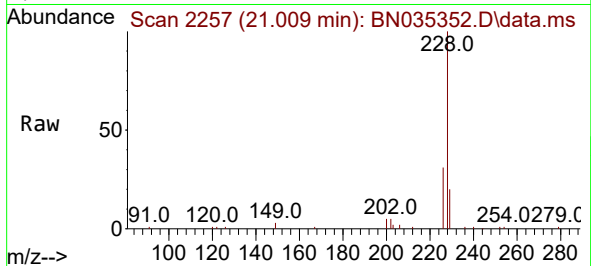




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

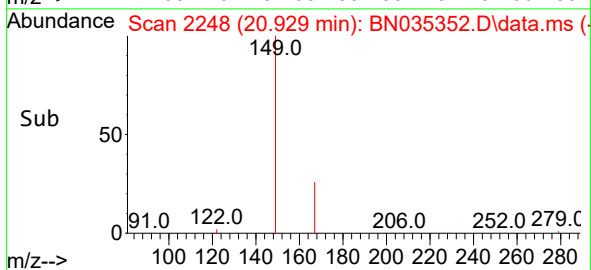
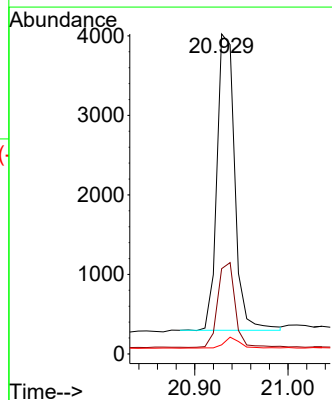
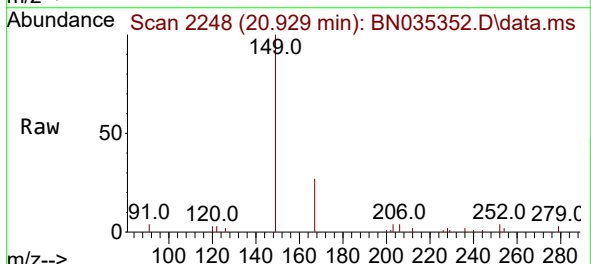
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

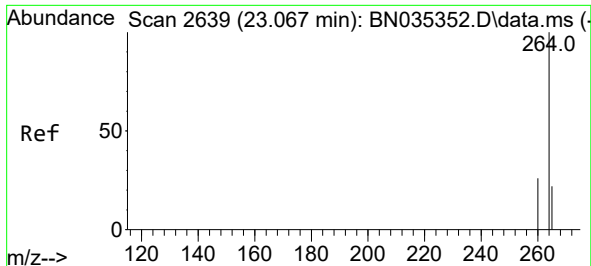
Tgt Ion:228 Resp: 13729
Ion Ratio Lower Upper
228 100
226 30.8 24.6 37.0
229 19.9 15.9 23.9



#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



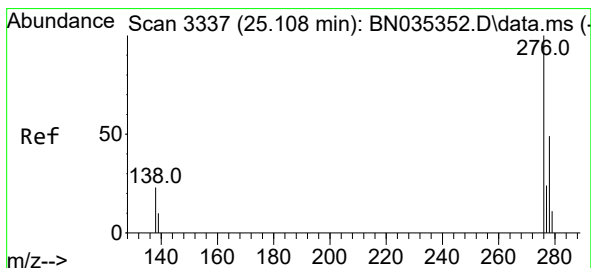
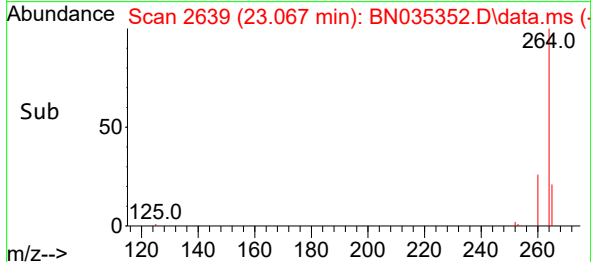
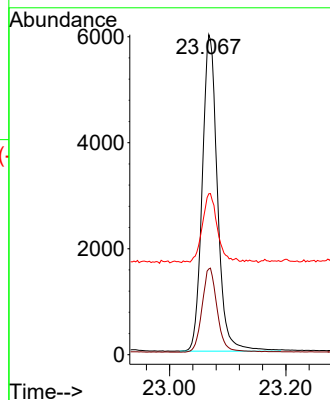
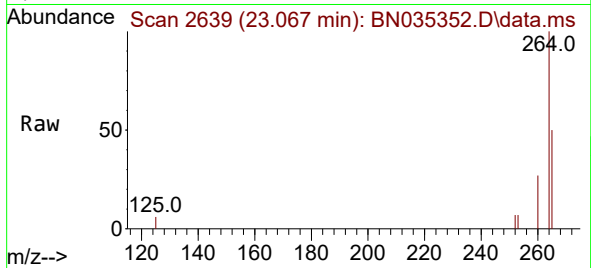


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

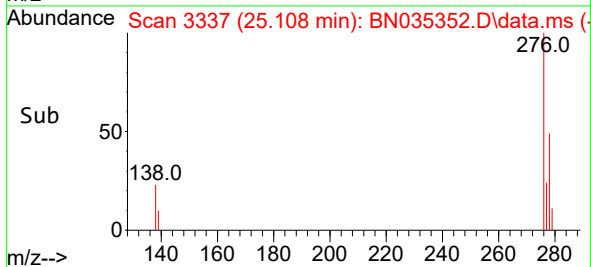
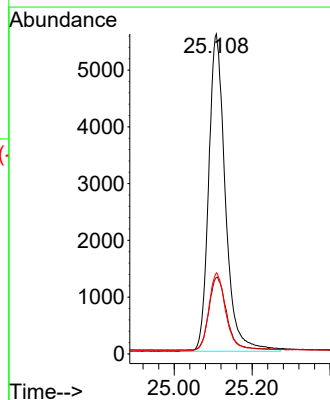
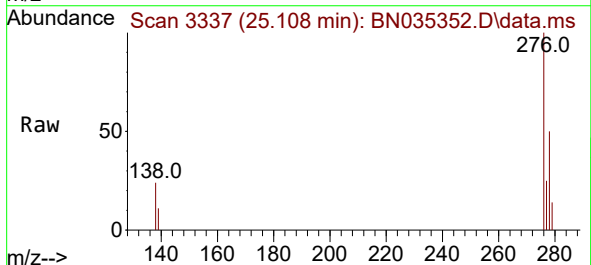
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

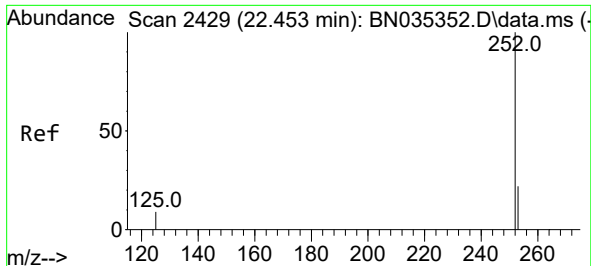


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

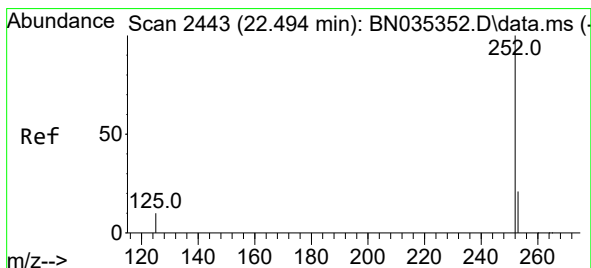
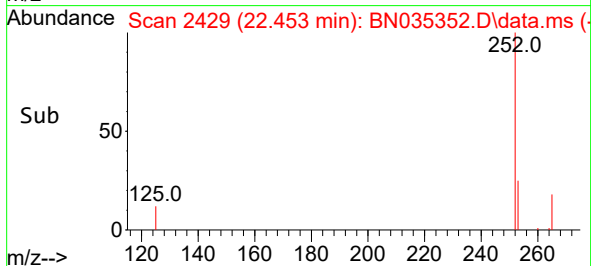
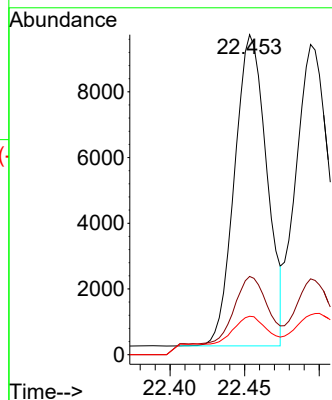
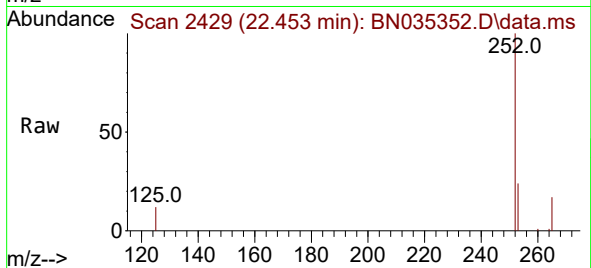
Tgt Ion:252 Resp: 14235

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

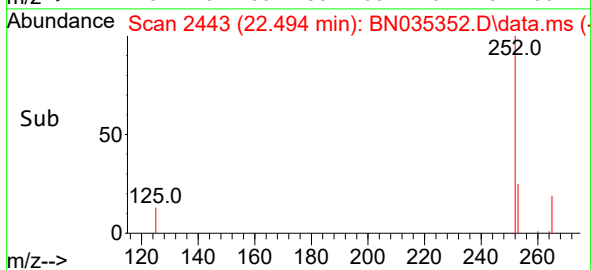
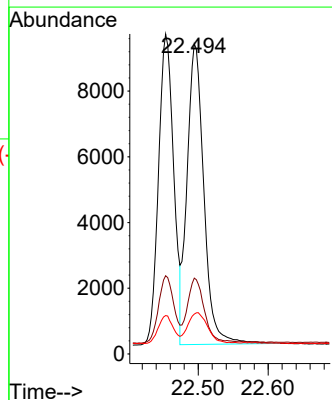
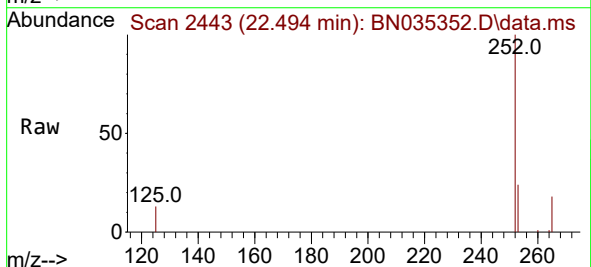
Tgt Ion:252 Resp: 15199

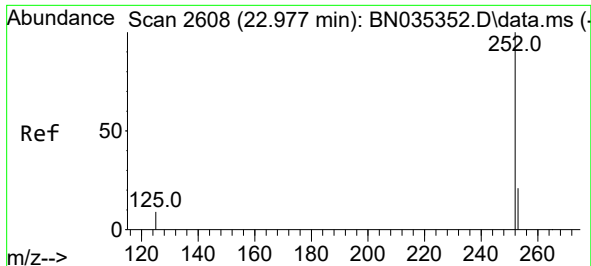
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

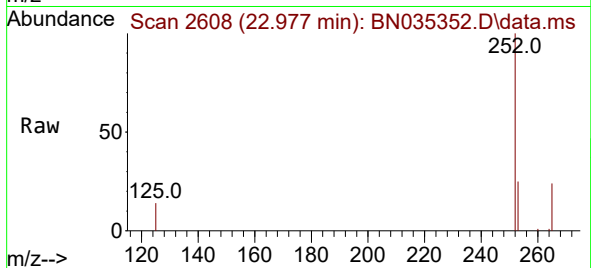
125 12.8 10.2 15.4



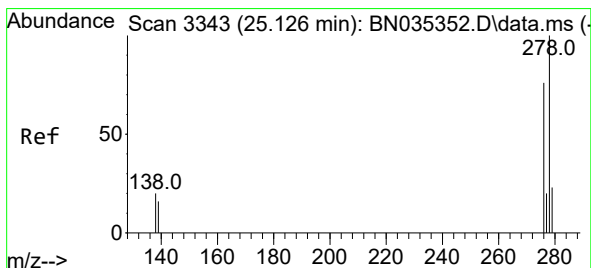
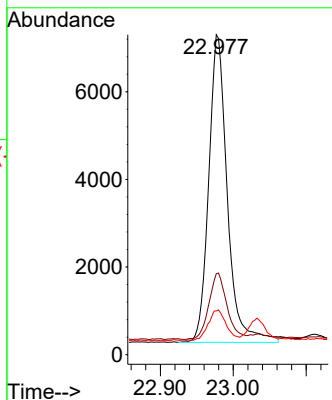


#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

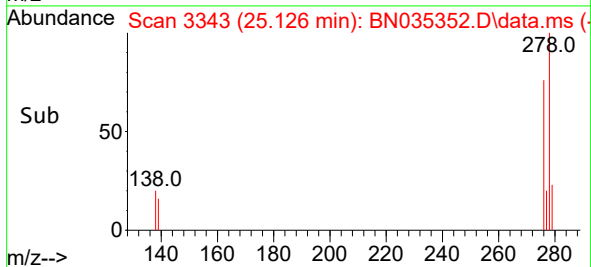
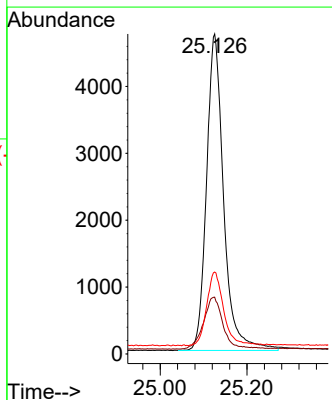
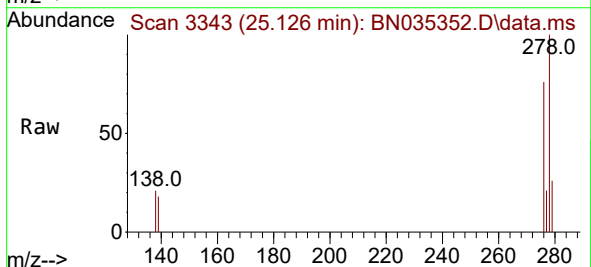


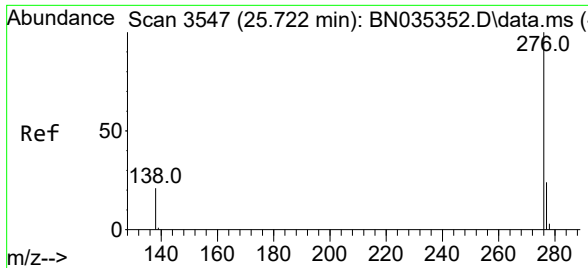
Tgt Ion:	252	Resp:	12425
Ion Ratio	Lower	Upper	
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3



#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

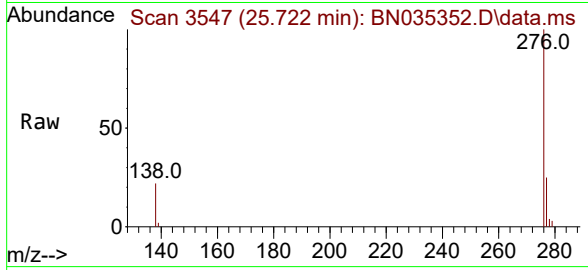
Tgt Ion:	278	Resp:	12948
Ion Ratio	Lower	Upper	
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



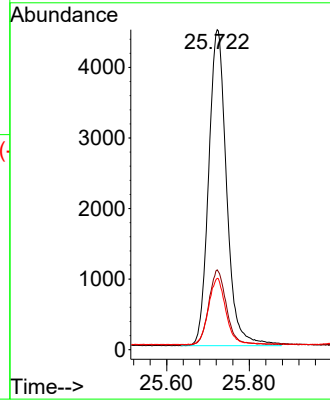
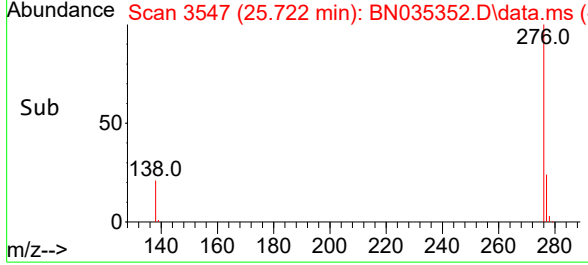


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



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

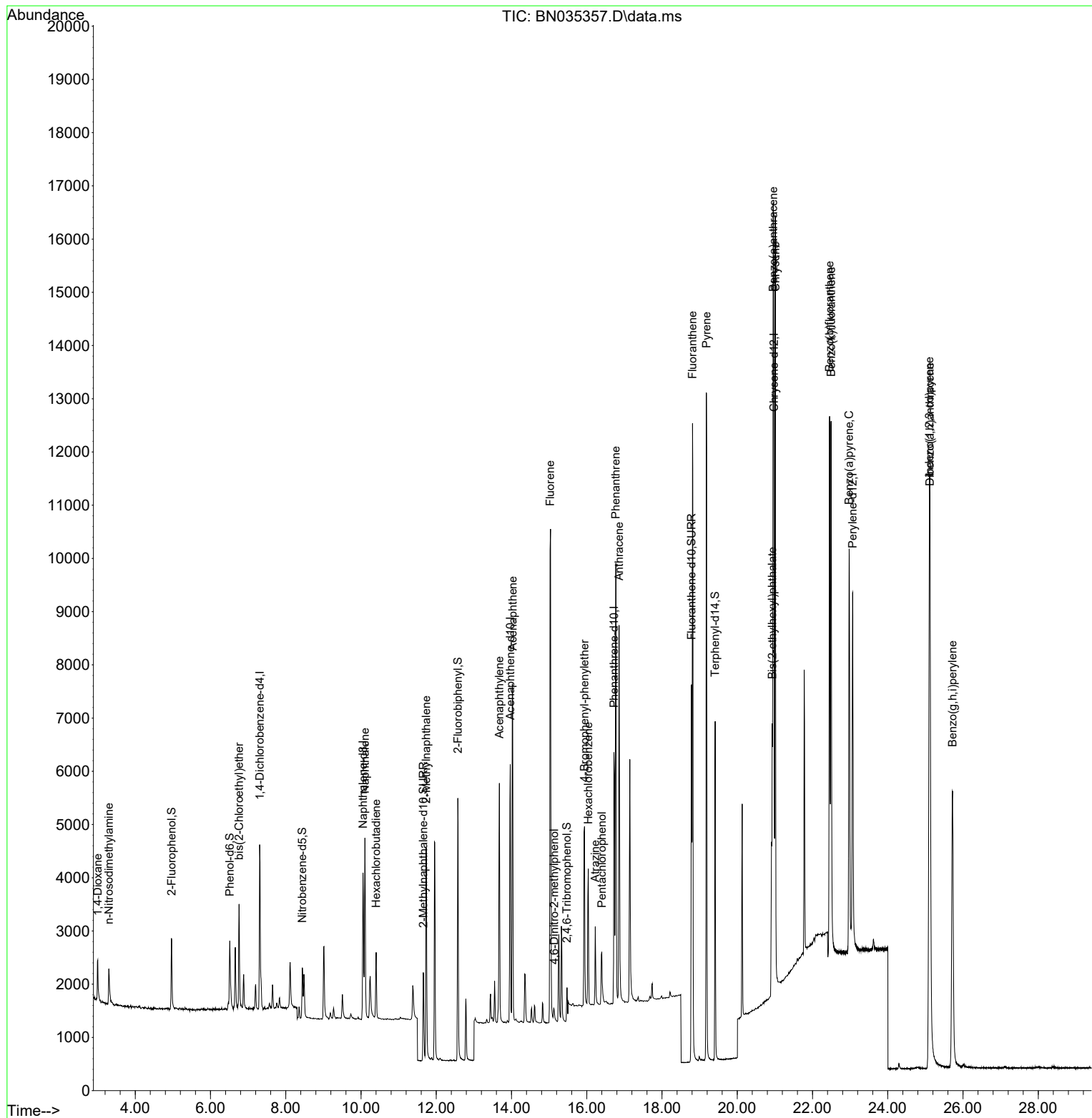
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

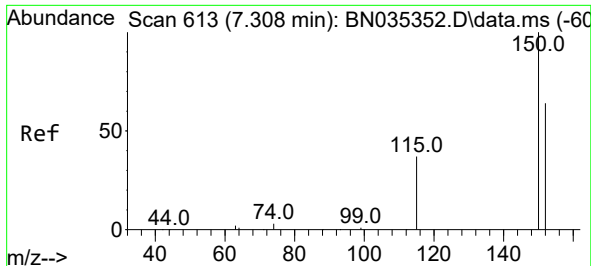
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Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

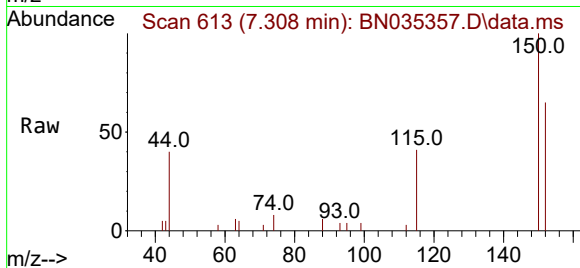
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



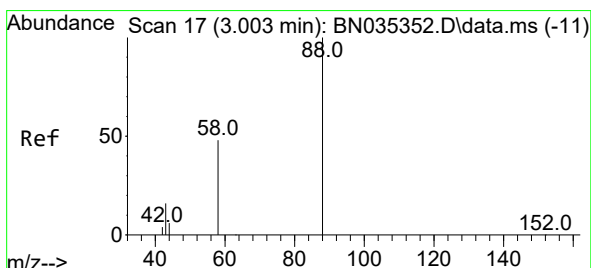
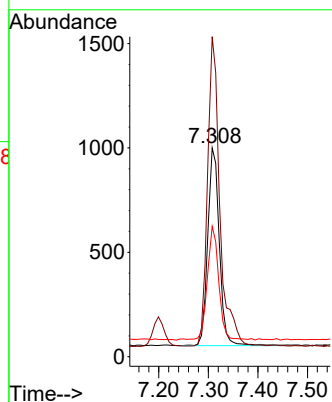
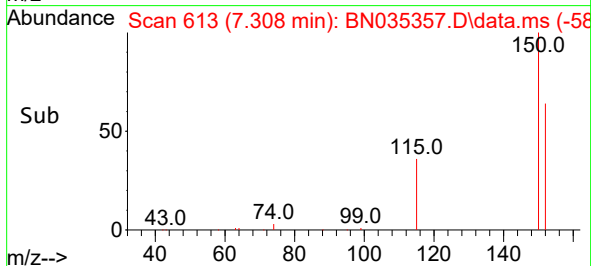


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

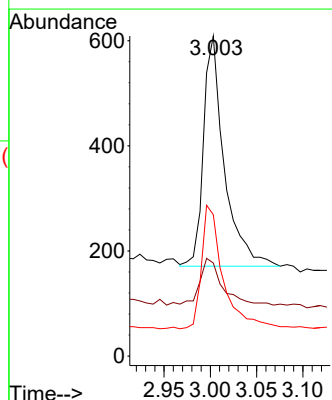
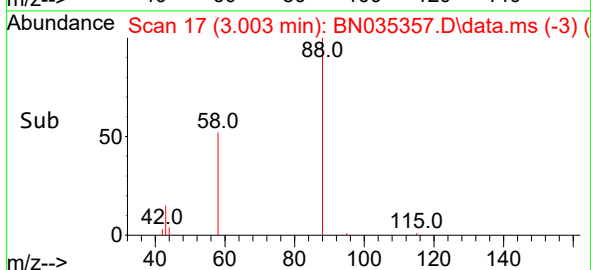
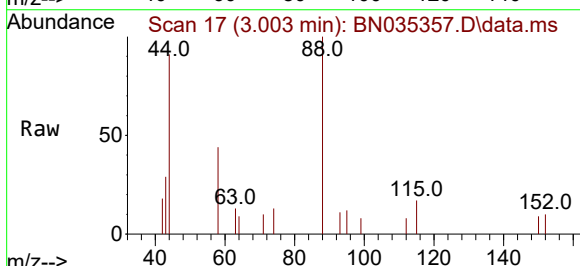


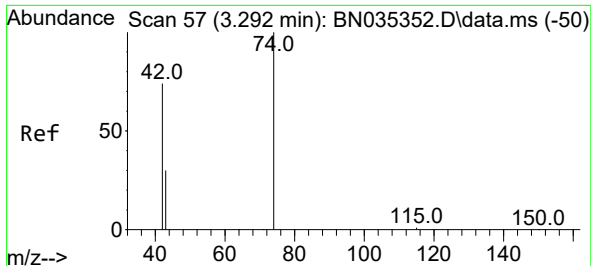
Tgt Ion:152 Resp: 1540
 Ion Ratio Lower Upper
 152 100
 150 153.3 124.0 186.0
 115 62.4 49.6 74.4



#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

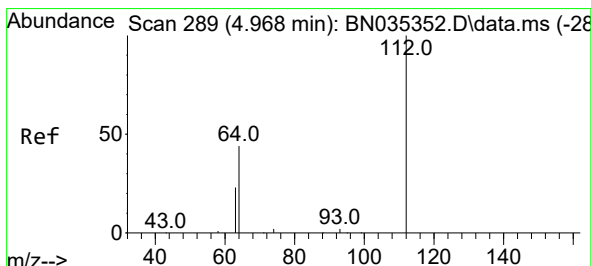
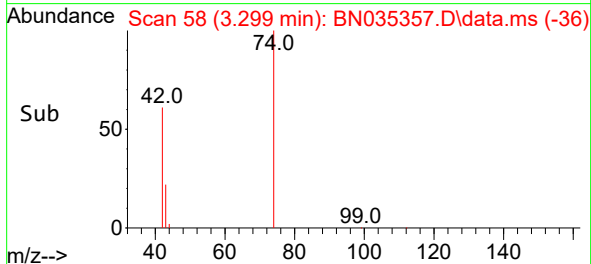
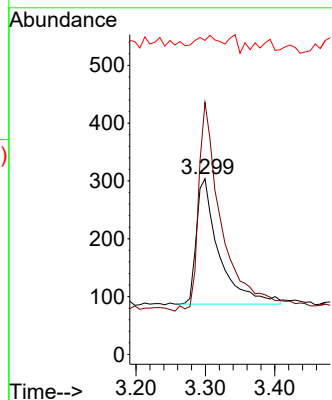
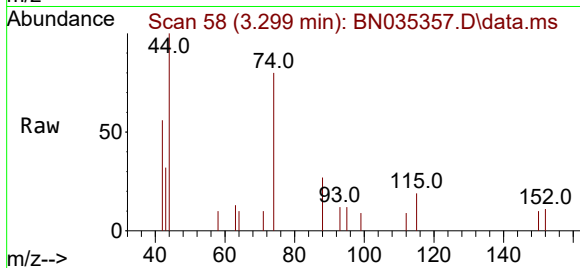




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

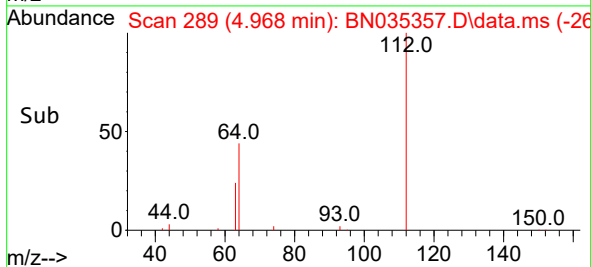
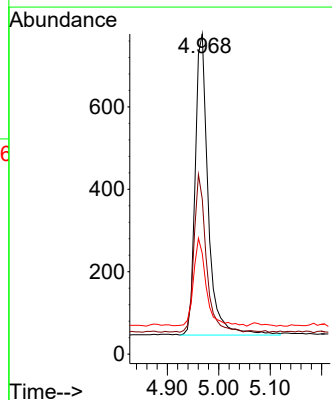
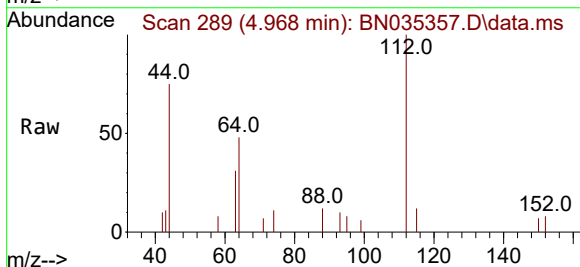
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

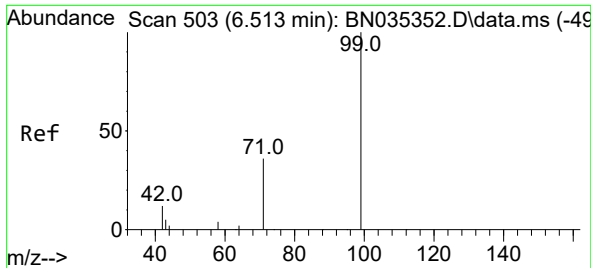
Tgt Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4#



#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

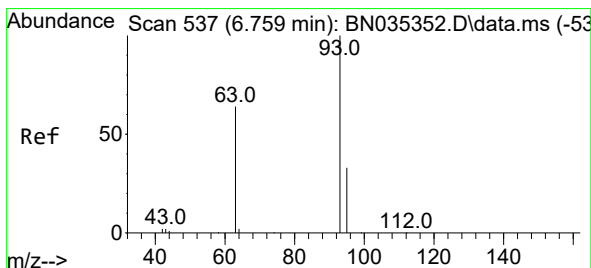
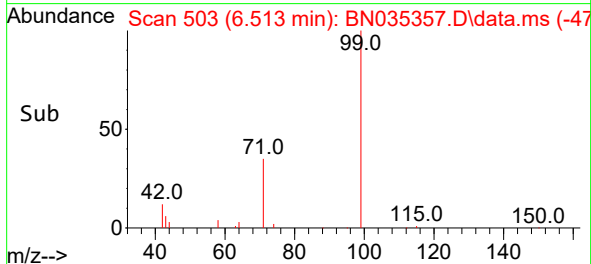
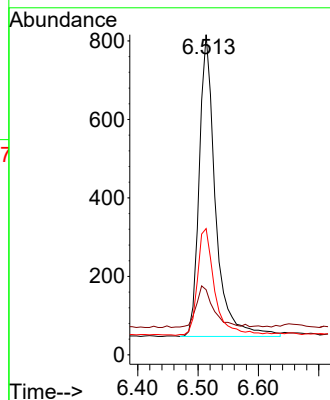
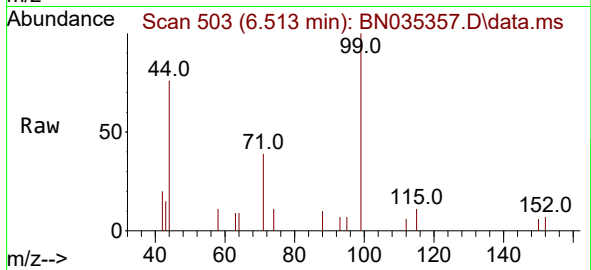




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

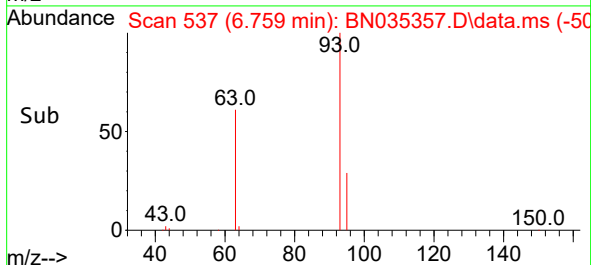
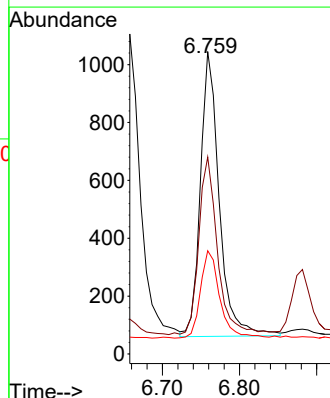
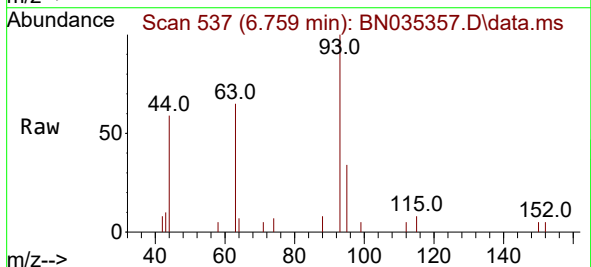
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

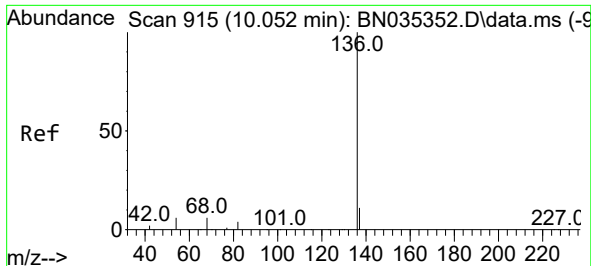
Tgt Ion: 99 Resp: 1437
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 37.2 29.3 43.9



#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

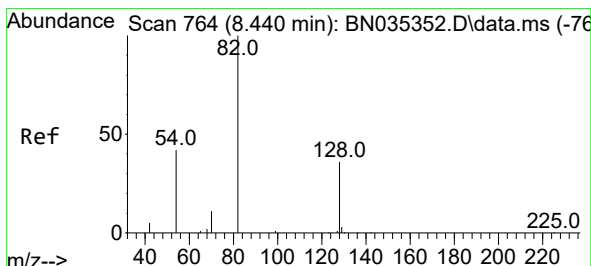
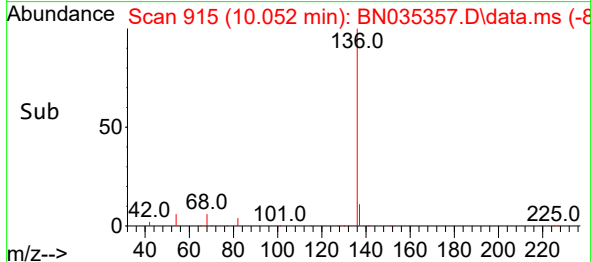
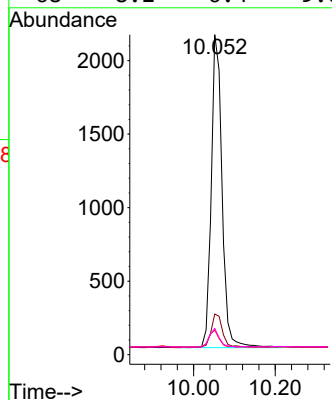
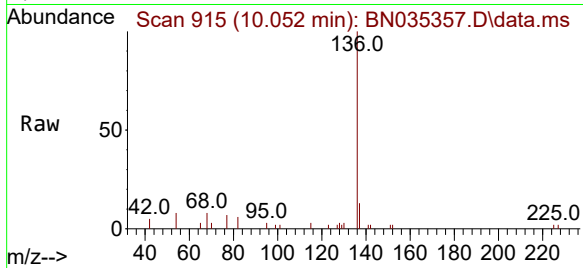




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

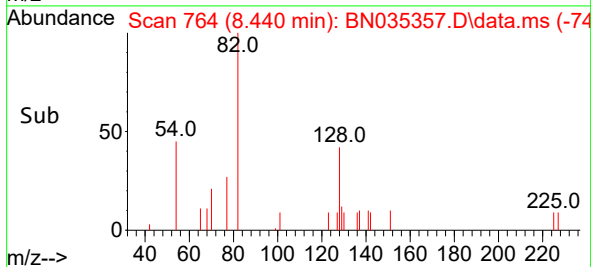
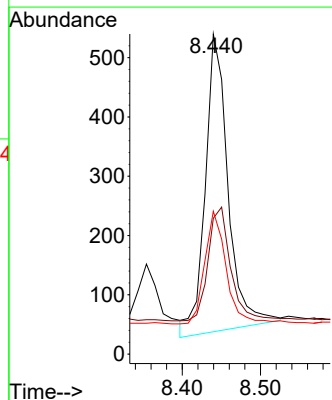
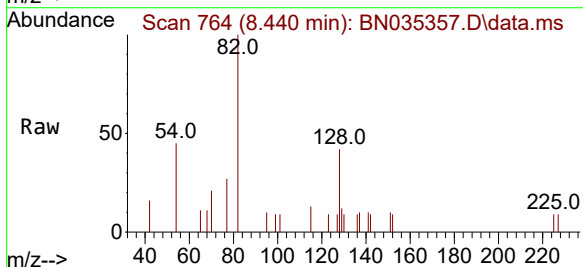
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

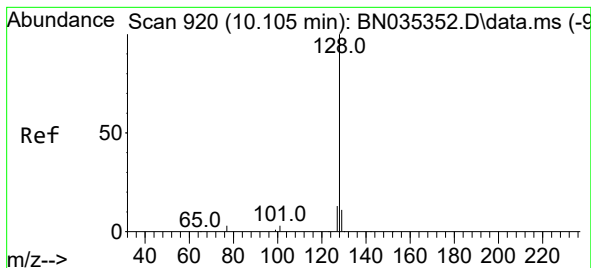
Tgt Ion:	136	Resp:	3904
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



#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# 91

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

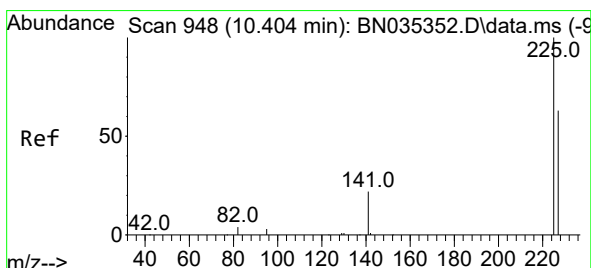
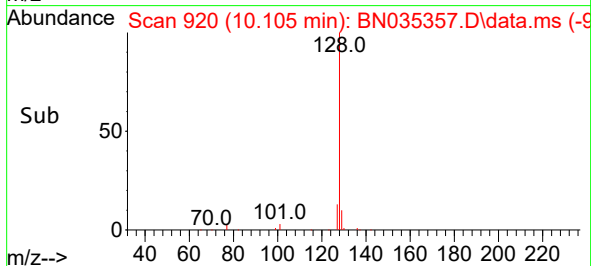
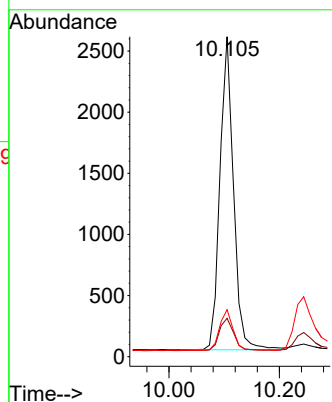
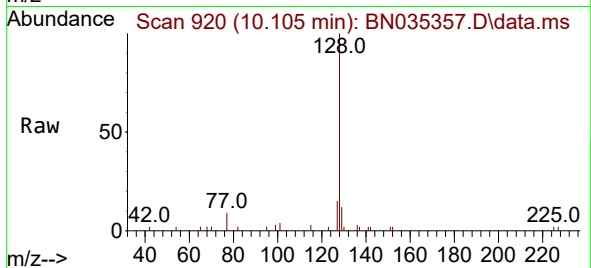
Tgt Ion:128 Resp: 4364

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

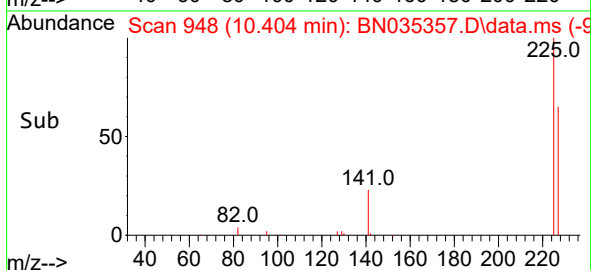
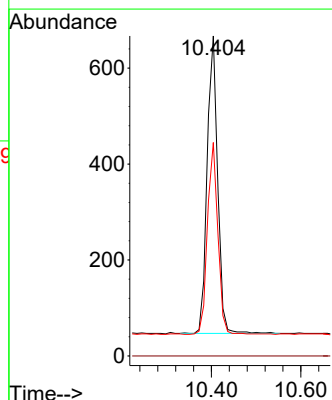
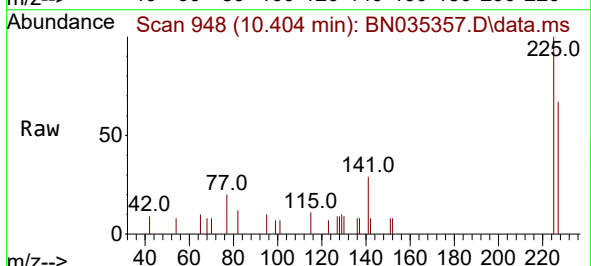
Tgt Ion:225 Resp: 1005

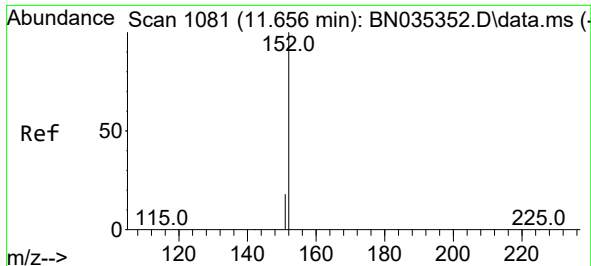
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

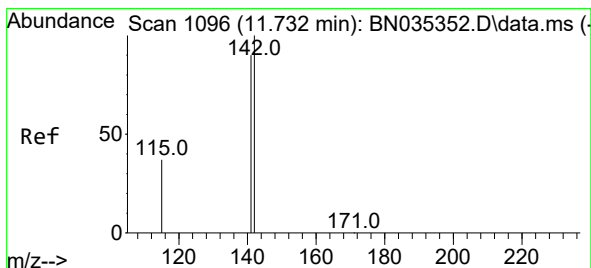
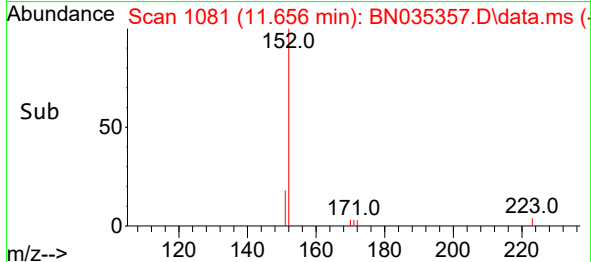
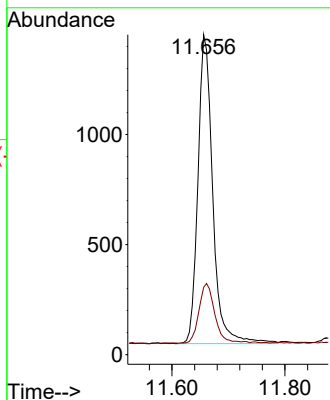
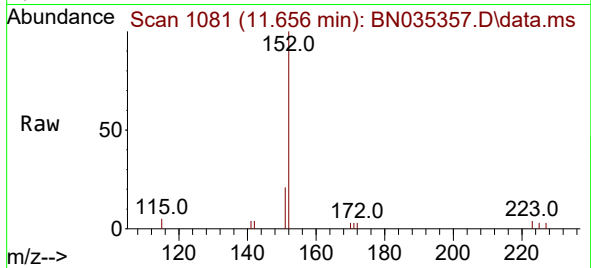




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

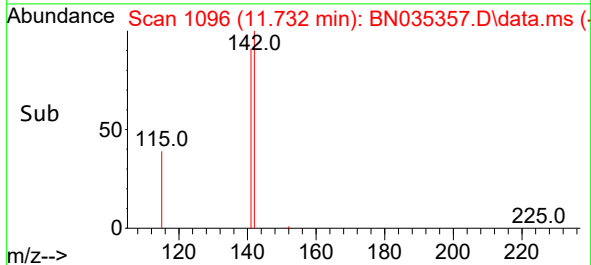
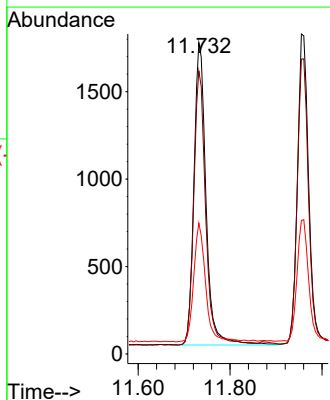
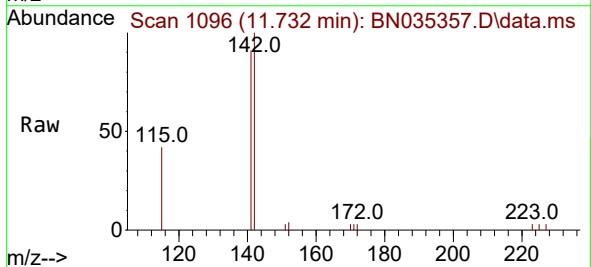
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

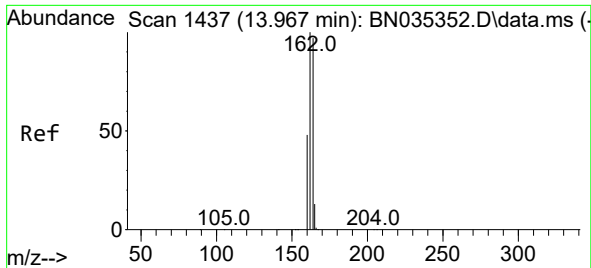
Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

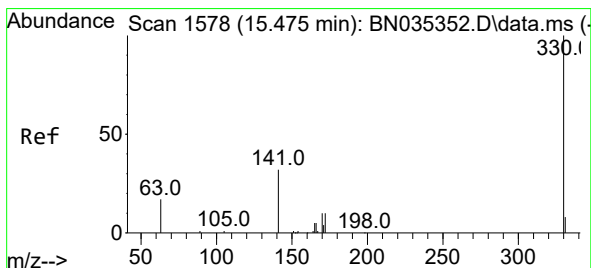
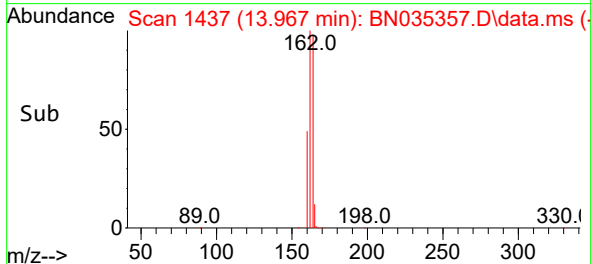
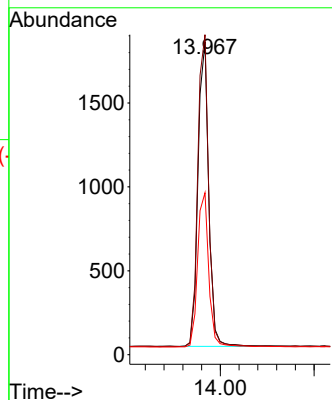
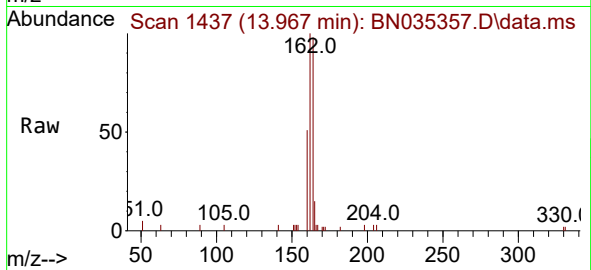




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

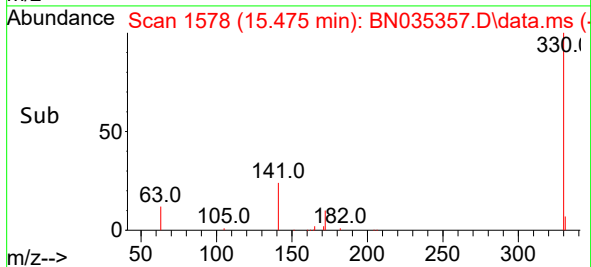
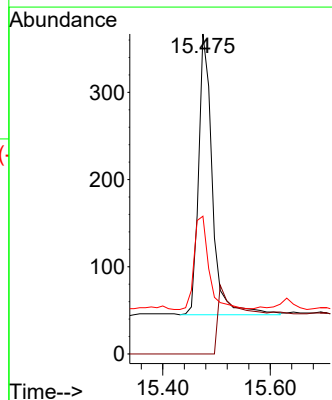
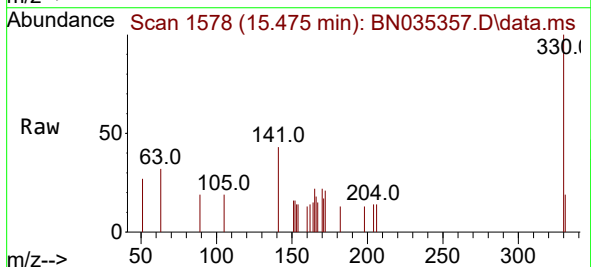
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

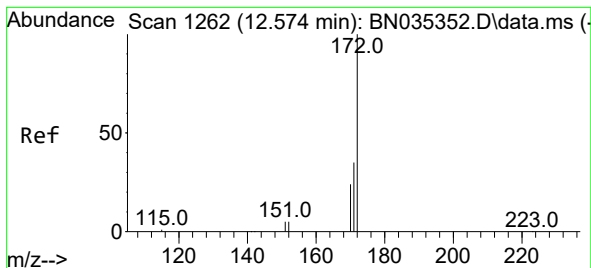
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1



#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

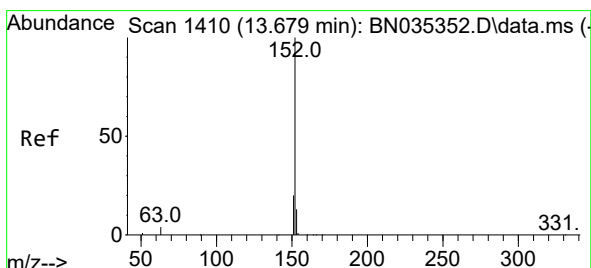
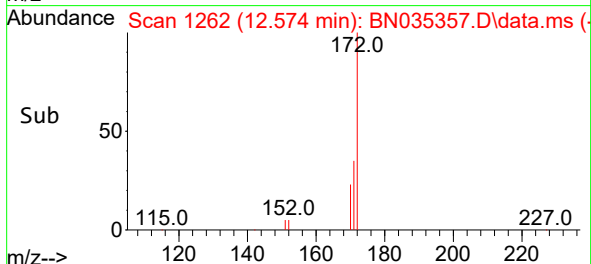
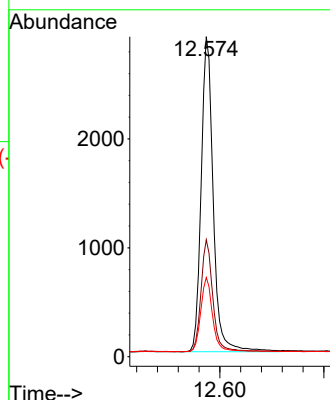
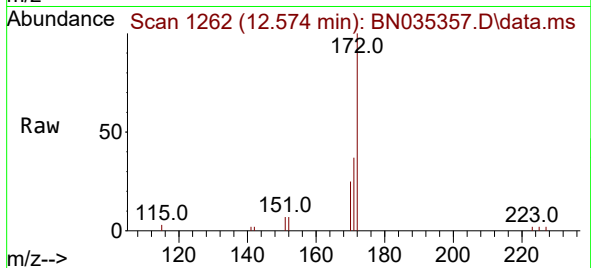




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

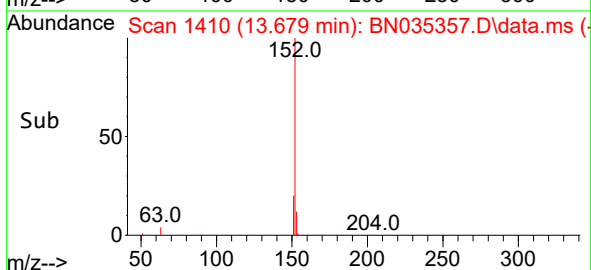
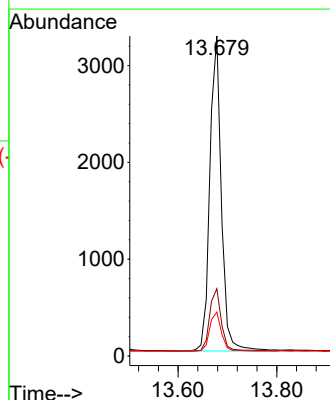
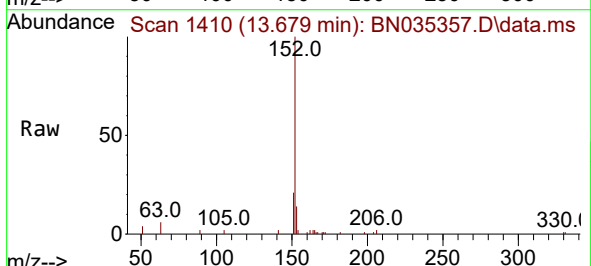
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

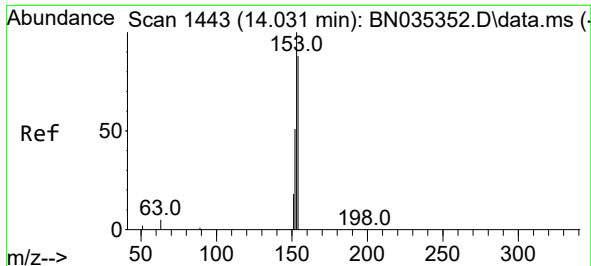
Tgt Ion:	172	Resp:	4647
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



#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

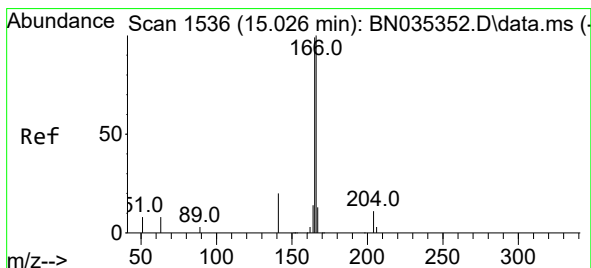
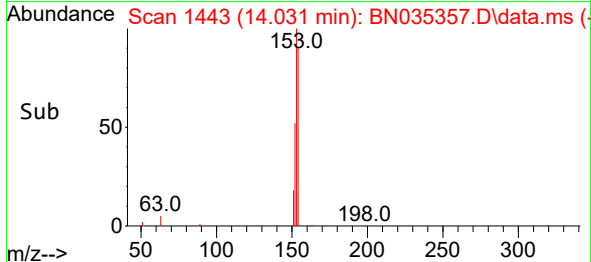
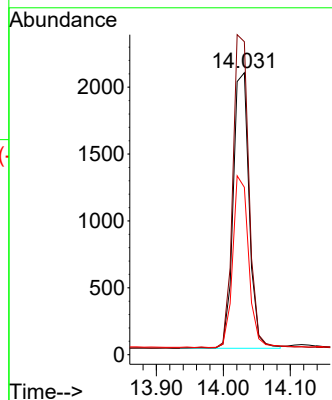
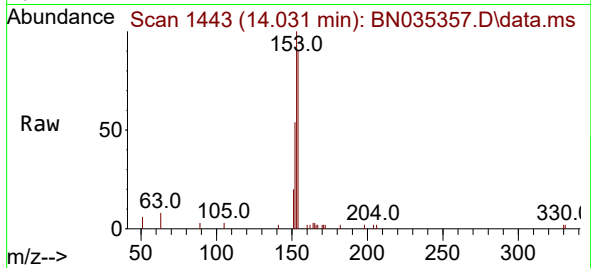




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

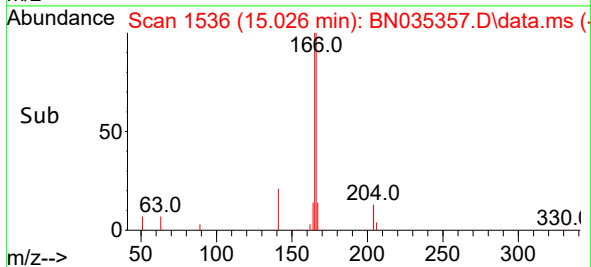
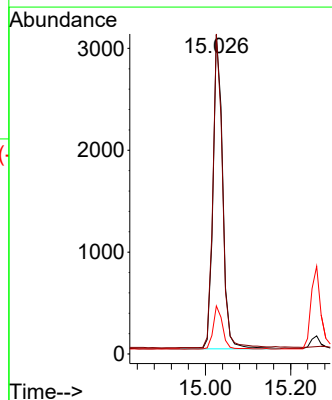
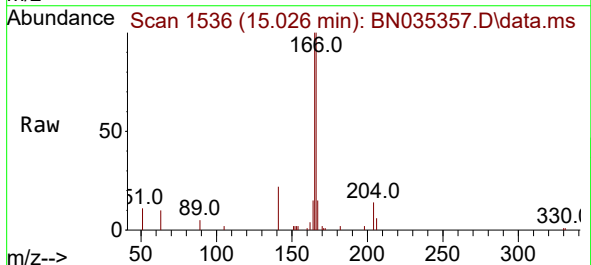
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

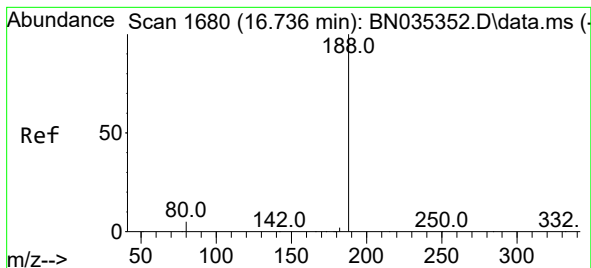
Tgt Ion:154 Resp: 3421
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6



#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

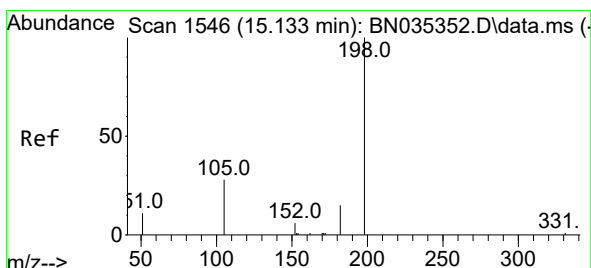
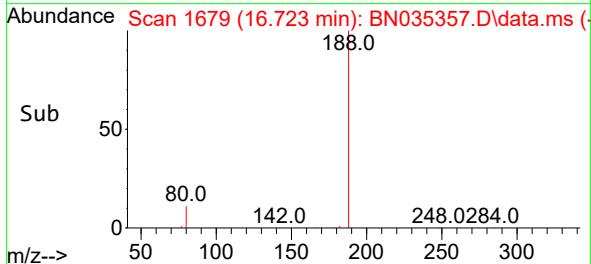
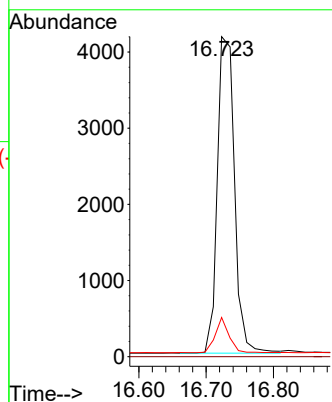
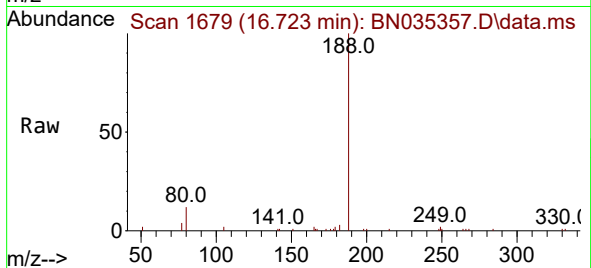
Tgt Ion:188 Resp: 7350

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

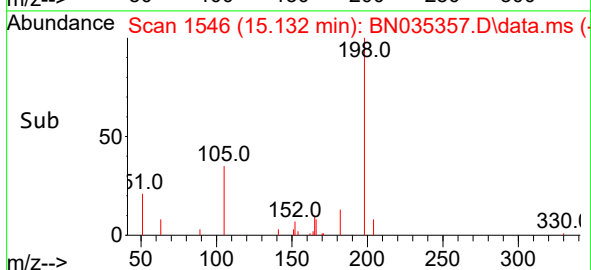
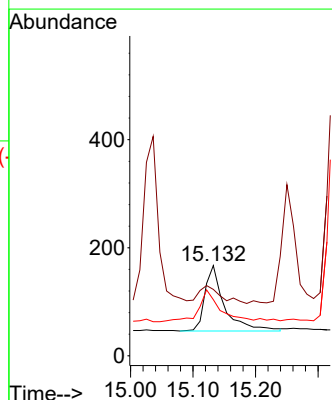
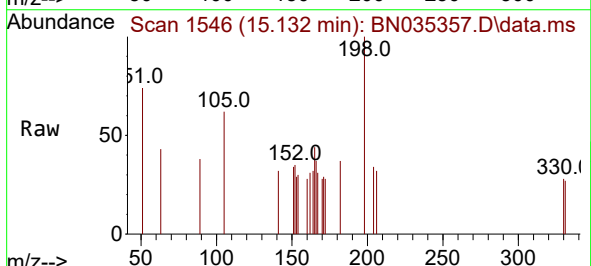
Tgt Ion:198 Resp: 263

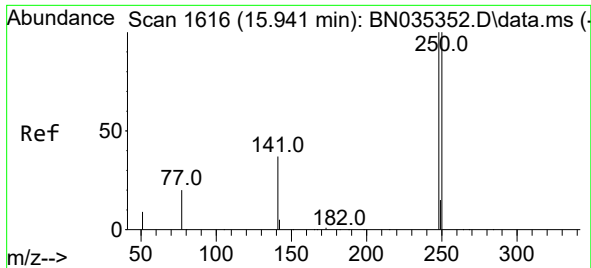
Ion Ratio Lower Upper

198 100

51 73.7 46.5 69.7#

105 62.3 45.3 67.9

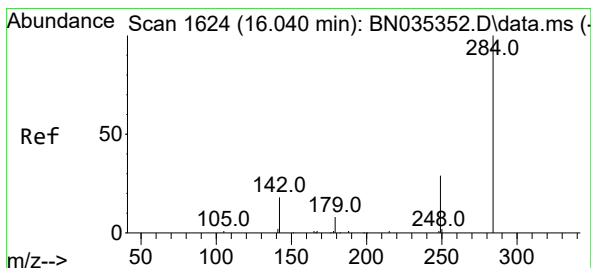
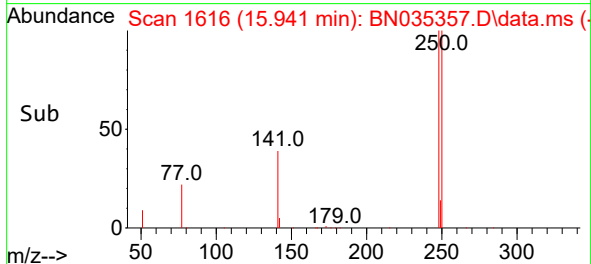
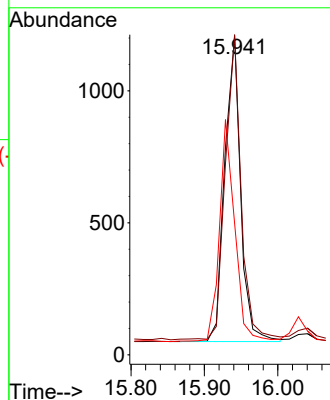
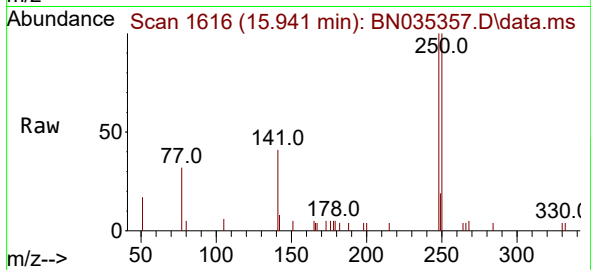




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

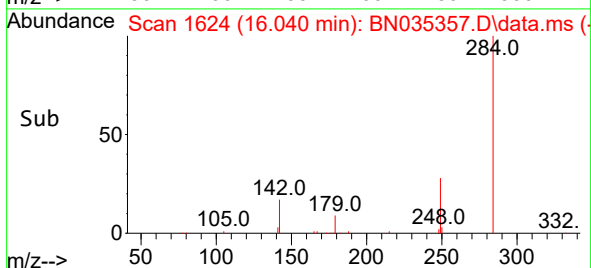
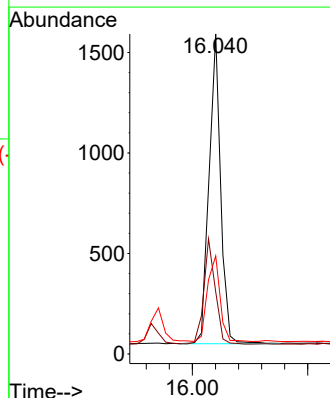
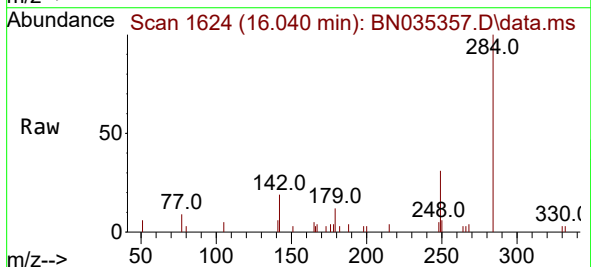
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

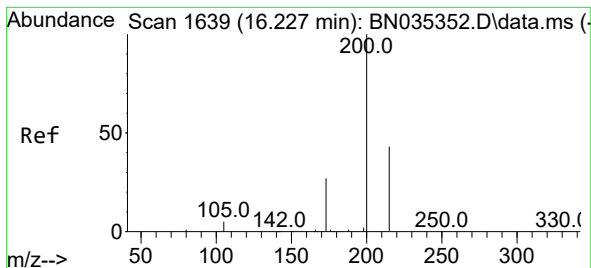
Tgt Ion:248 Resp: 1742
Ion Ratio Lower Upper
248 100
250 100.3 80.6 120.8
141 41.2 31.5 47.3



#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# 1639

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

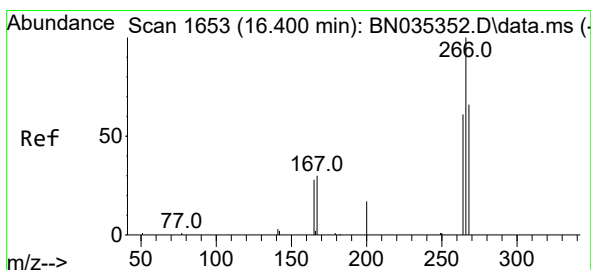
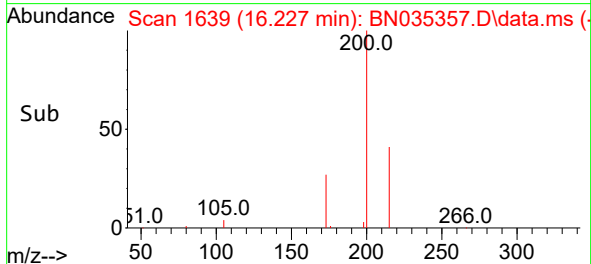
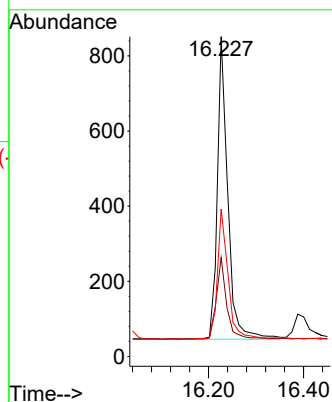
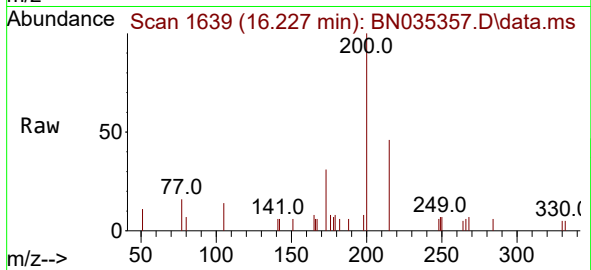
Tgt Ion:200 Resp: 1227

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

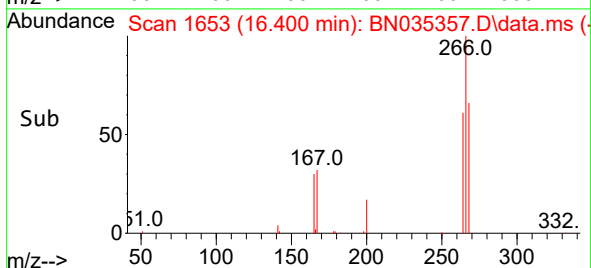
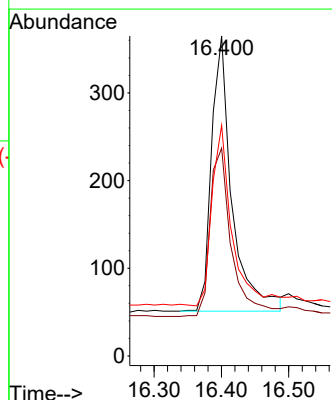
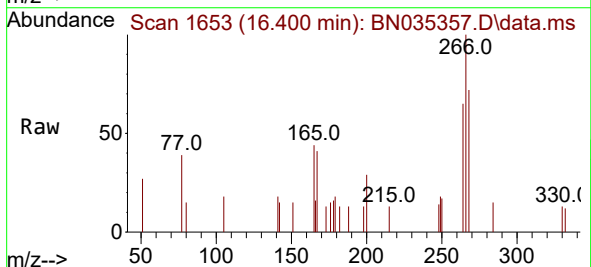
Tgt Ion:266 Resp: 662

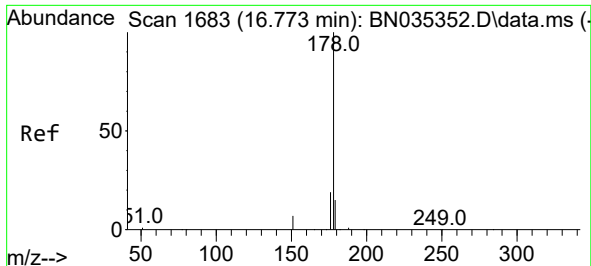
Ion Ratio Lower Upper

266 100

264 65.0 42.3 63.5#

268 66.8 43.3 64.9#

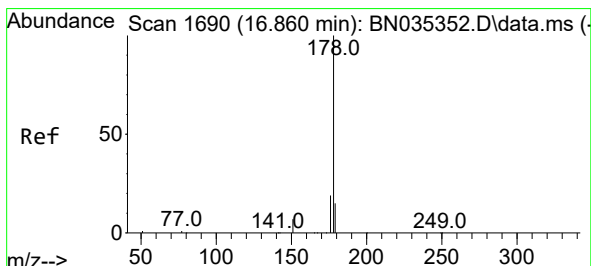
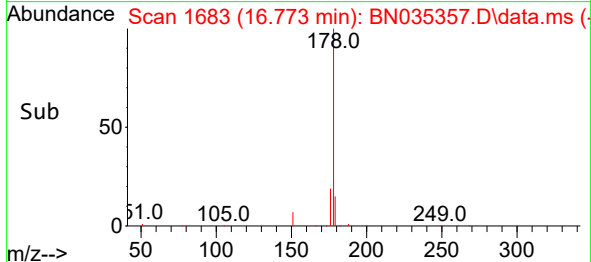
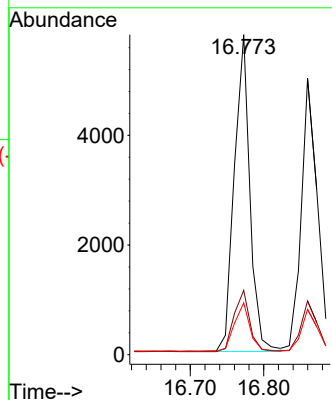
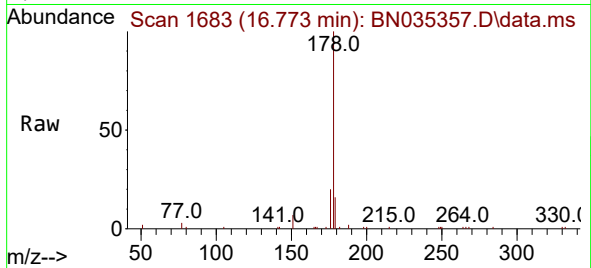




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

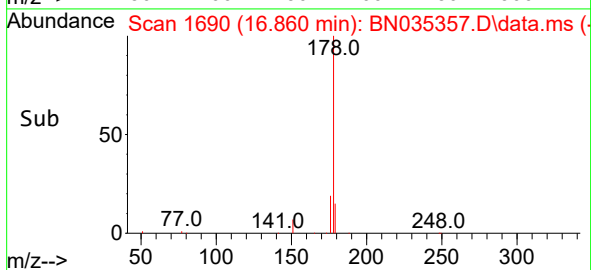
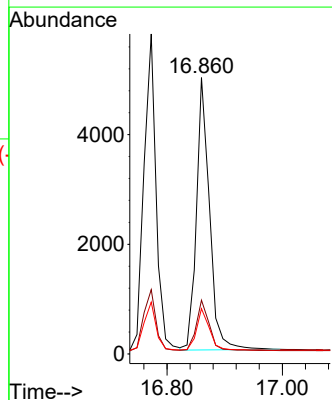
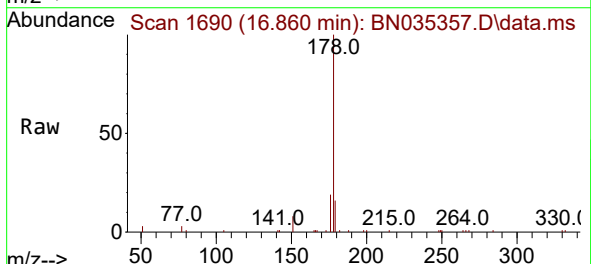
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

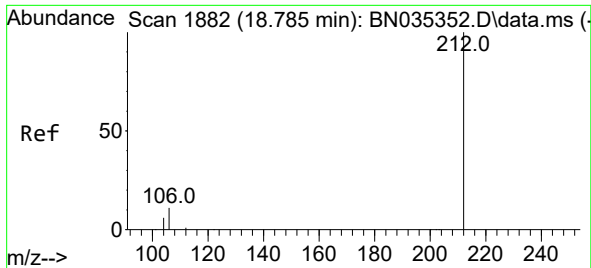
Tgt Ion:178 Resp: 8509
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5



#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

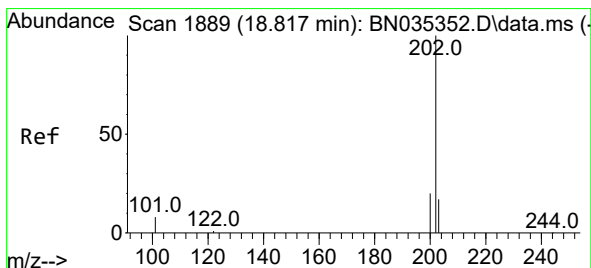
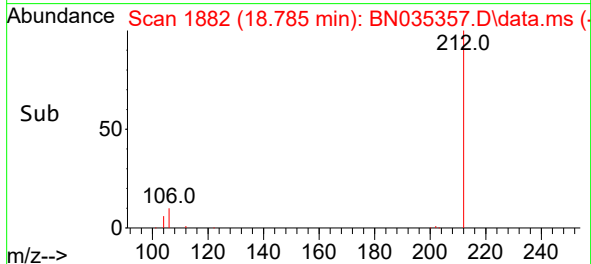
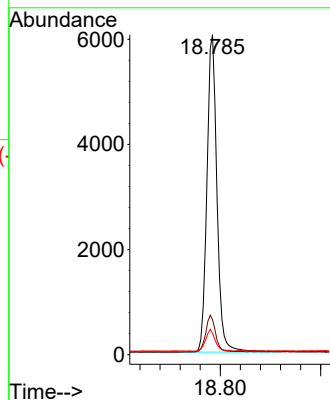
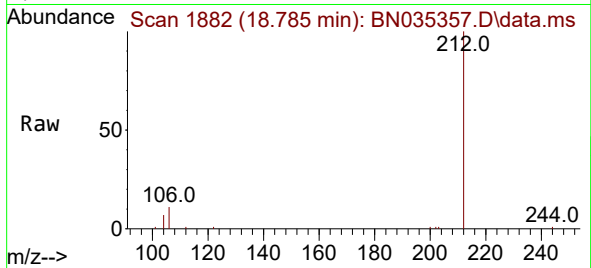




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

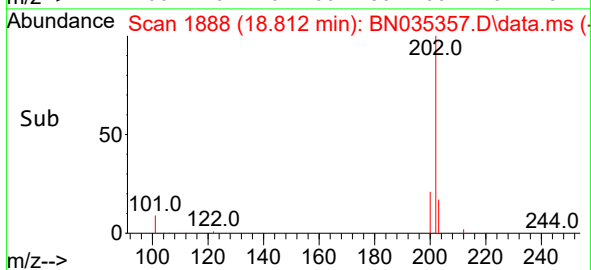
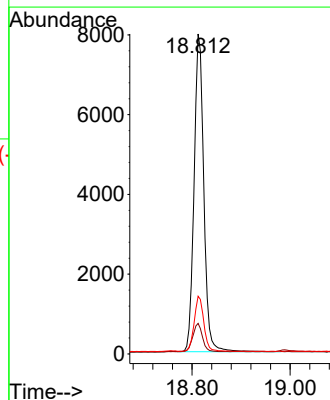
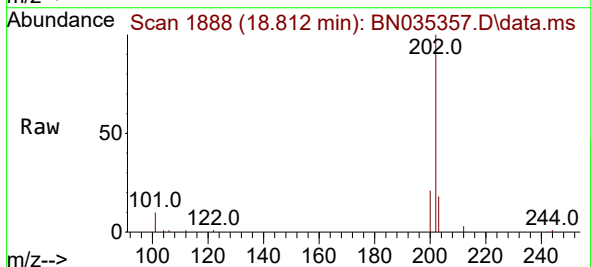
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

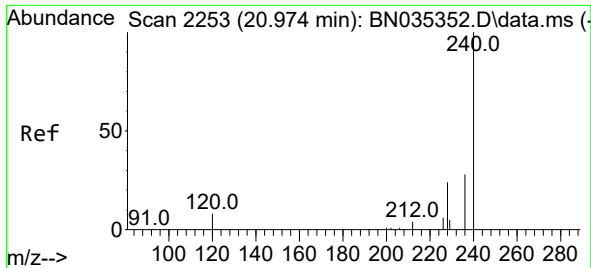
Tgt Ion:212 Resp: 8415
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.4 5.3 7.9



#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

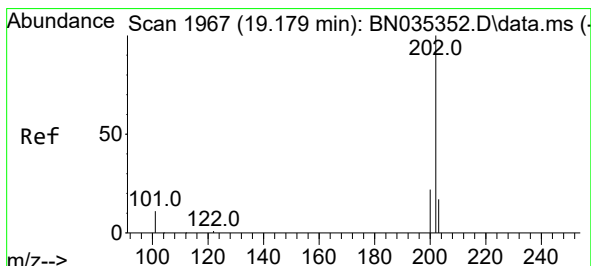
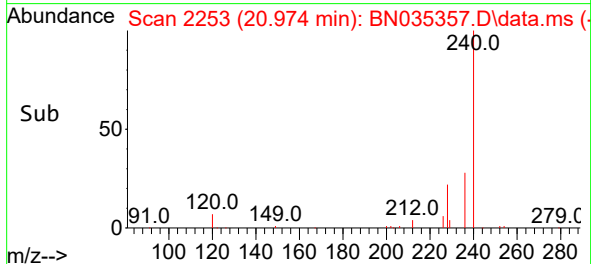
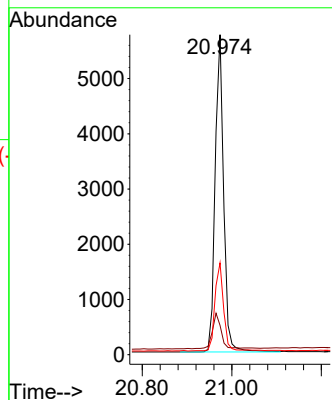
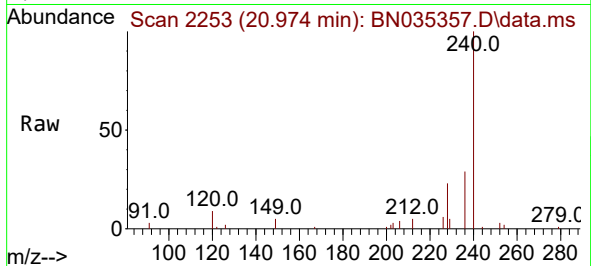




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

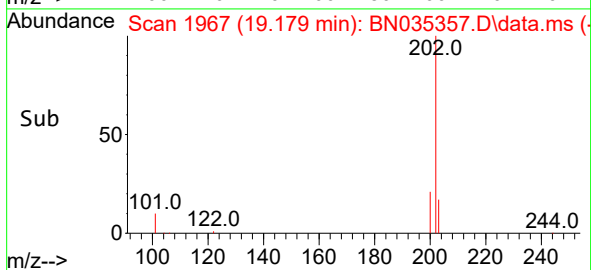
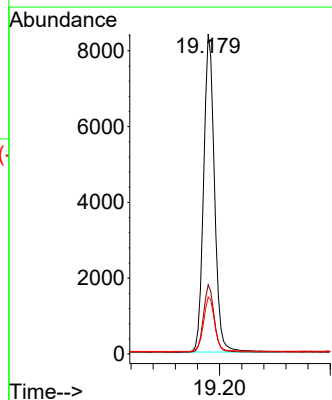
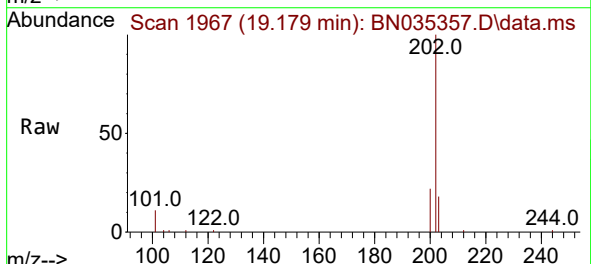
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

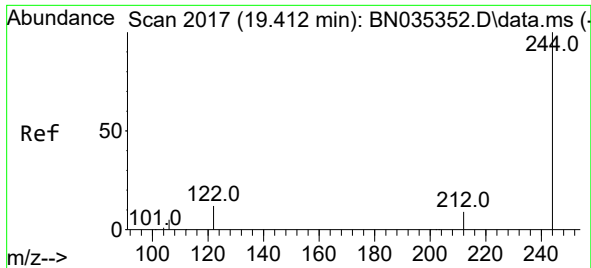
Tgt Ion:240 Resp: 7576
Ion Ratio Lower Upper
240 100
120 9.1 7.9 11.9
236 28.7 22.9 34.3



#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

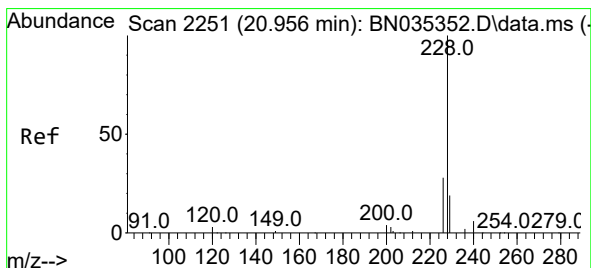
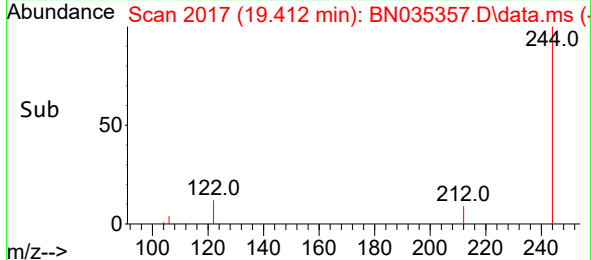
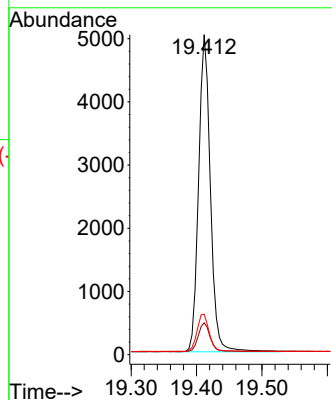
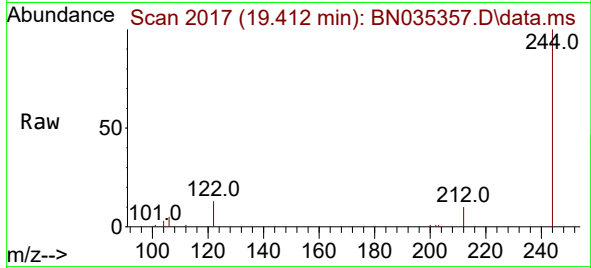




#31
 Terphenyl-d14
 Concen: 0.420 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

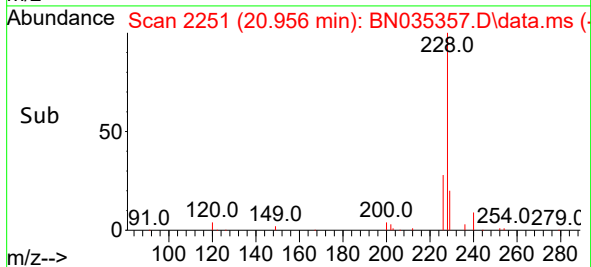
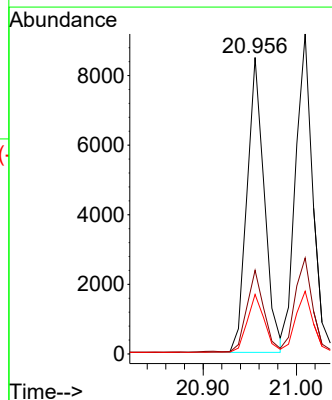
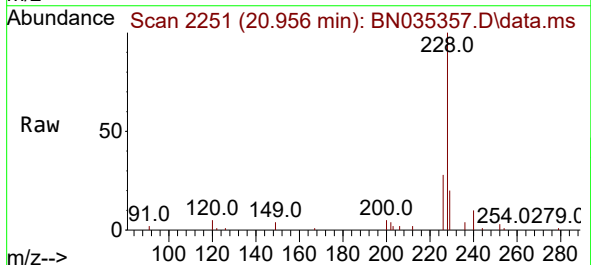
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

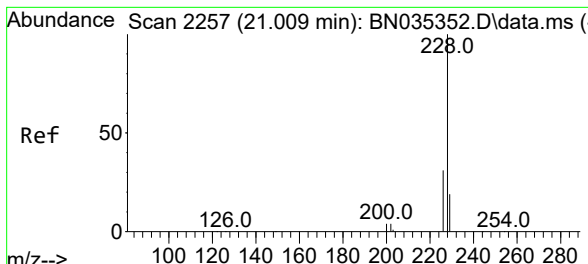
Tgt Ion:244 Resp: 6272
 Ion Ratio Lower Upper
 244 100
 212 9.9 8.1 12.1
 122 12.6 10.3 15.5



#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# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

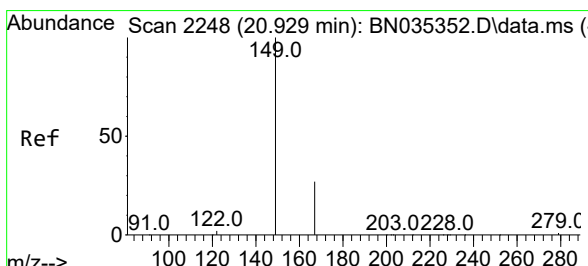
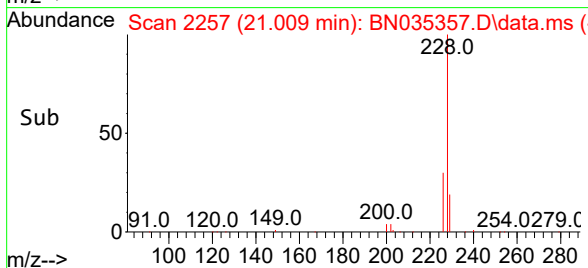
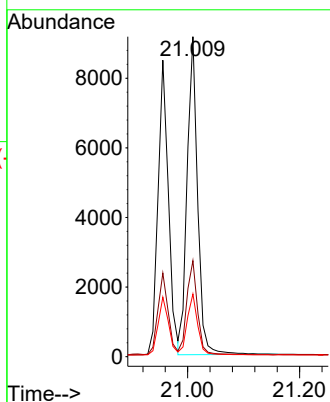
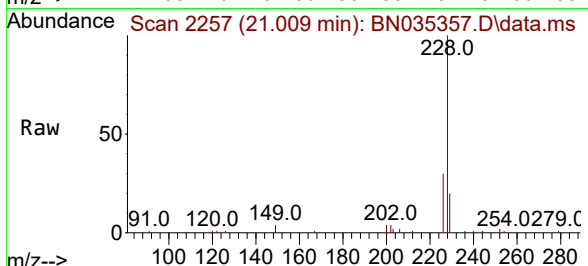
Tgt Ion:228 Resp: 11926

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

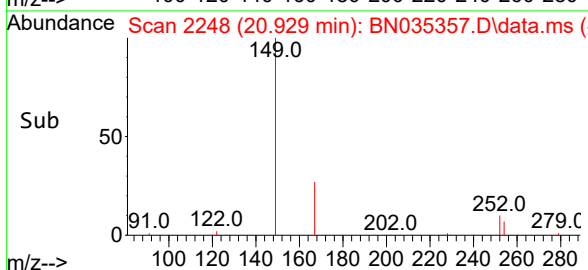
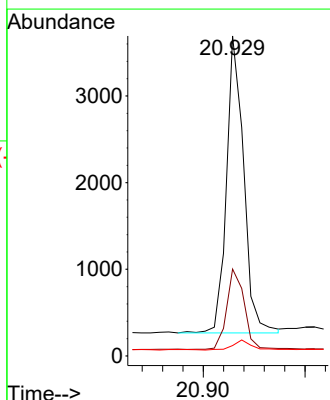
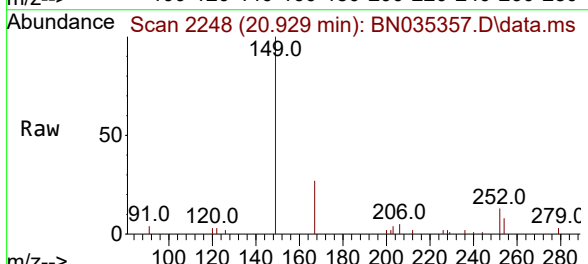
Tgt Ion:149 Resp: 4016

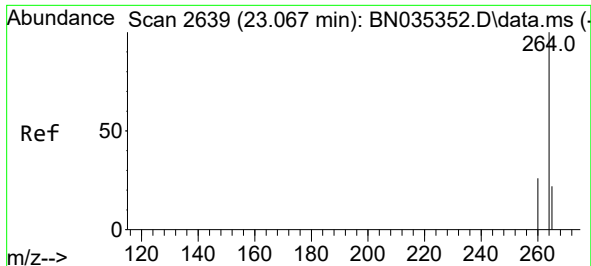
Ion Ratio Lower Upper

149 100

167 27.7 22.2 33.4

279 3.7 2.7 4.1

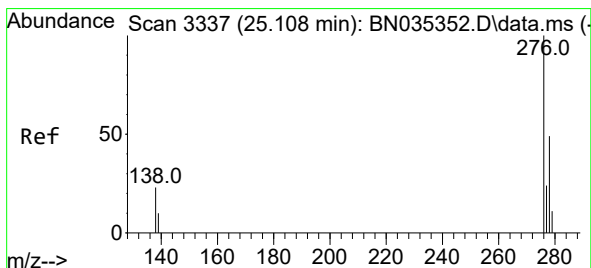
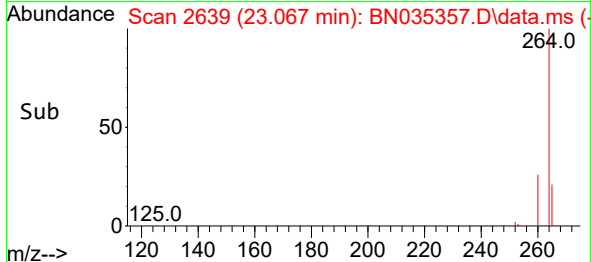
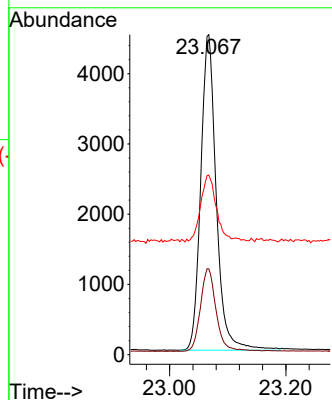
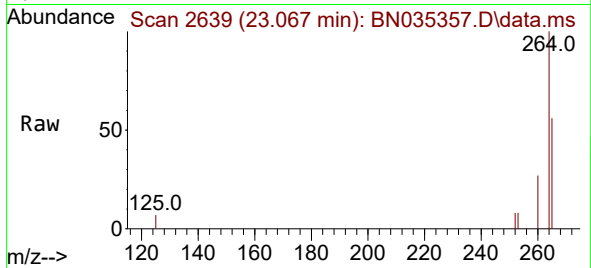




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

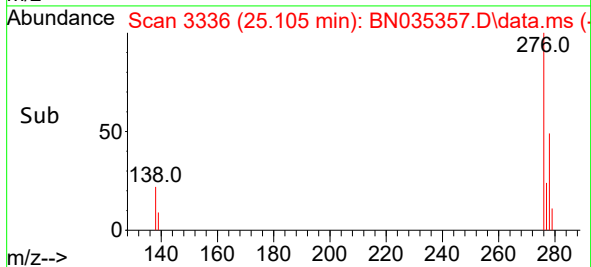
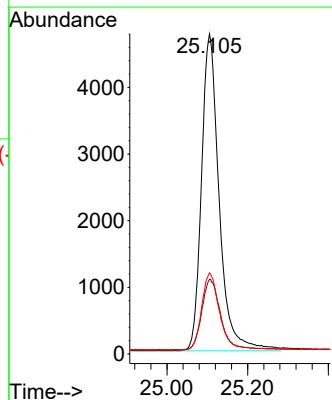
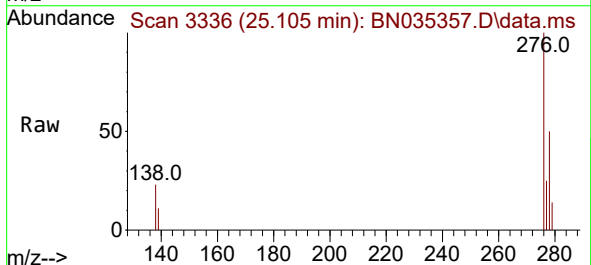
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

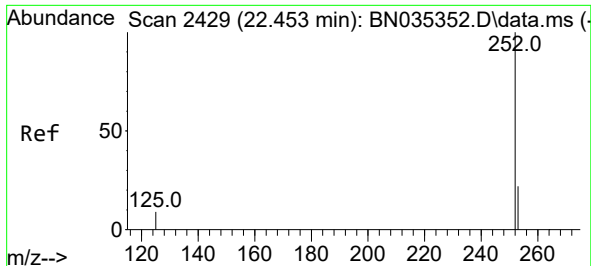
Tgt Ion:264 Resp: 8338
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 56.1 40.2 60.4



#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# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

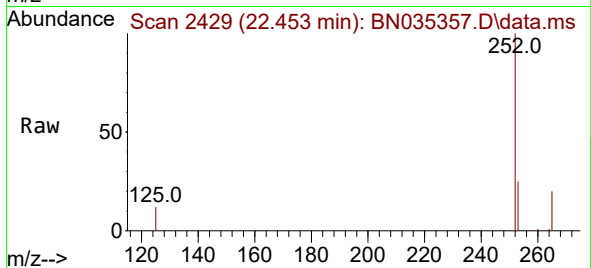
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



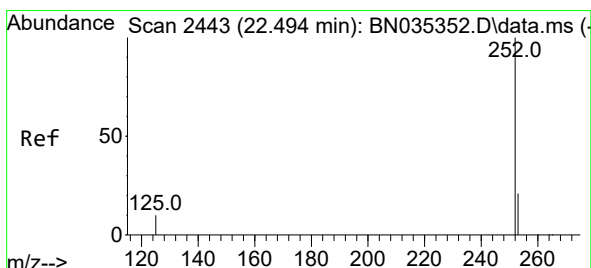
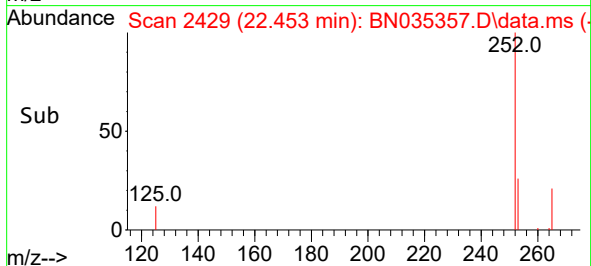
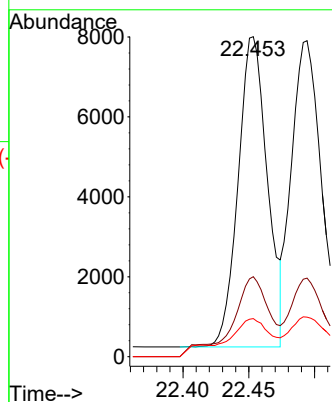
Tgt Ion:252 Resp: 12988

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

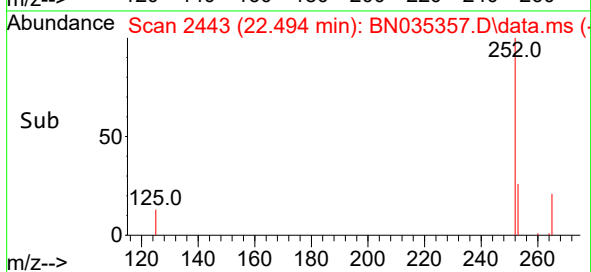
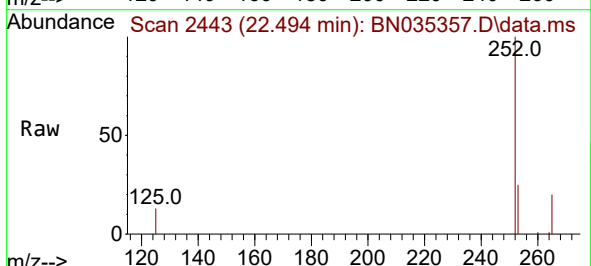
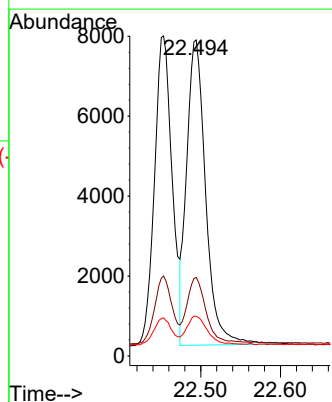
Tgt Ion:252 Resp: 12669

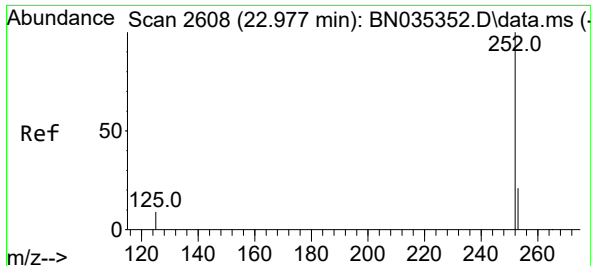
Ion Ratio Lower Upper

252 100

253 24.8 19.5 29.3

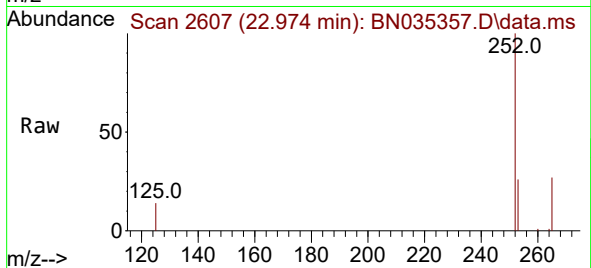
125 12.5 10.2 15.4



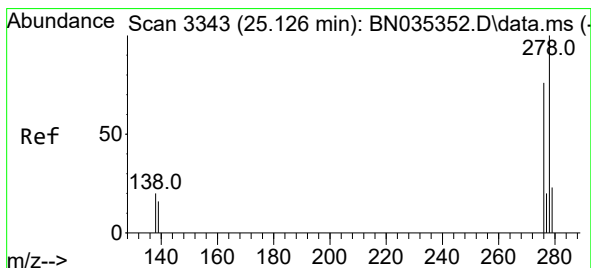
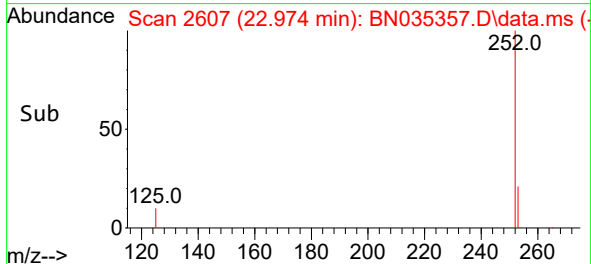
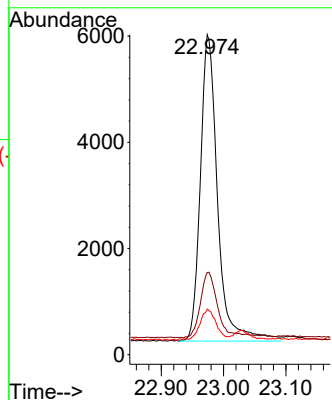


#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 20
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

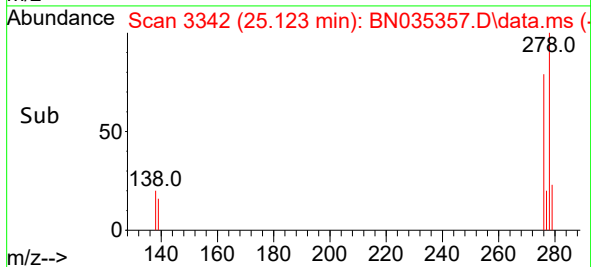
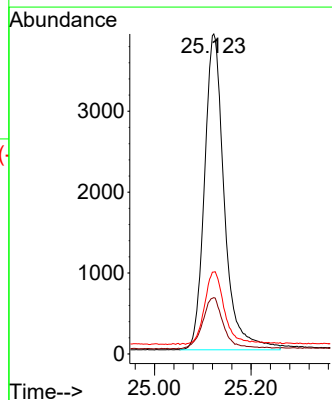
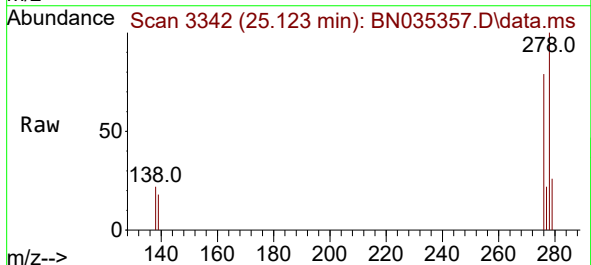


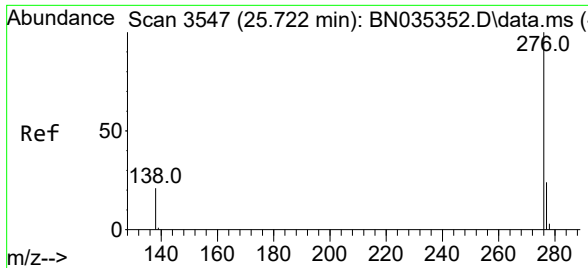
Tgt Ion:252 Resp: 11094
Ion Ratio Lower Upper
252 100
253 25.7 20.2 30.4
125 14.3 10.9 16.3



#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

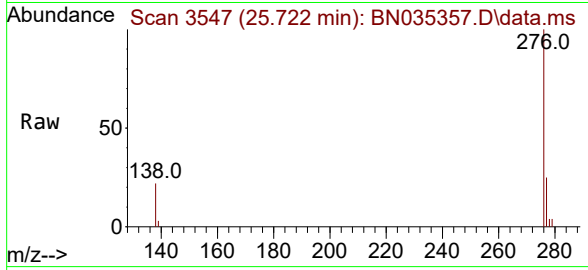
Tgt Ion:278 Resp: 11141
Ion Ratio Lower Upper
278 100
139 17.6 14.2 21.4
279 25.6 20.5 30.7



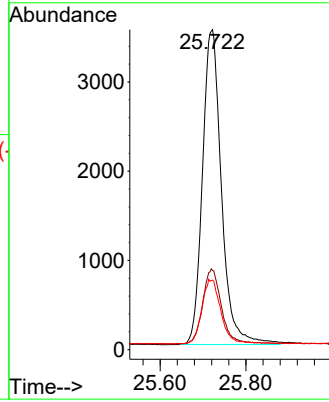
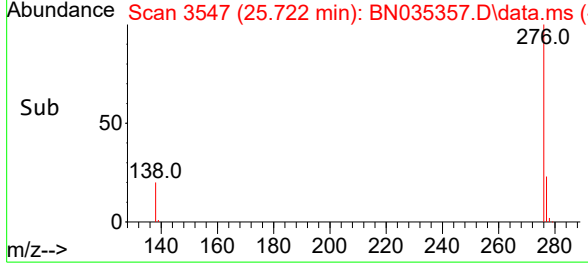


#41
 Benzo(g,h,i)perylene
 Concen: 0.404 ng
 RT: 25.722 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

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



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

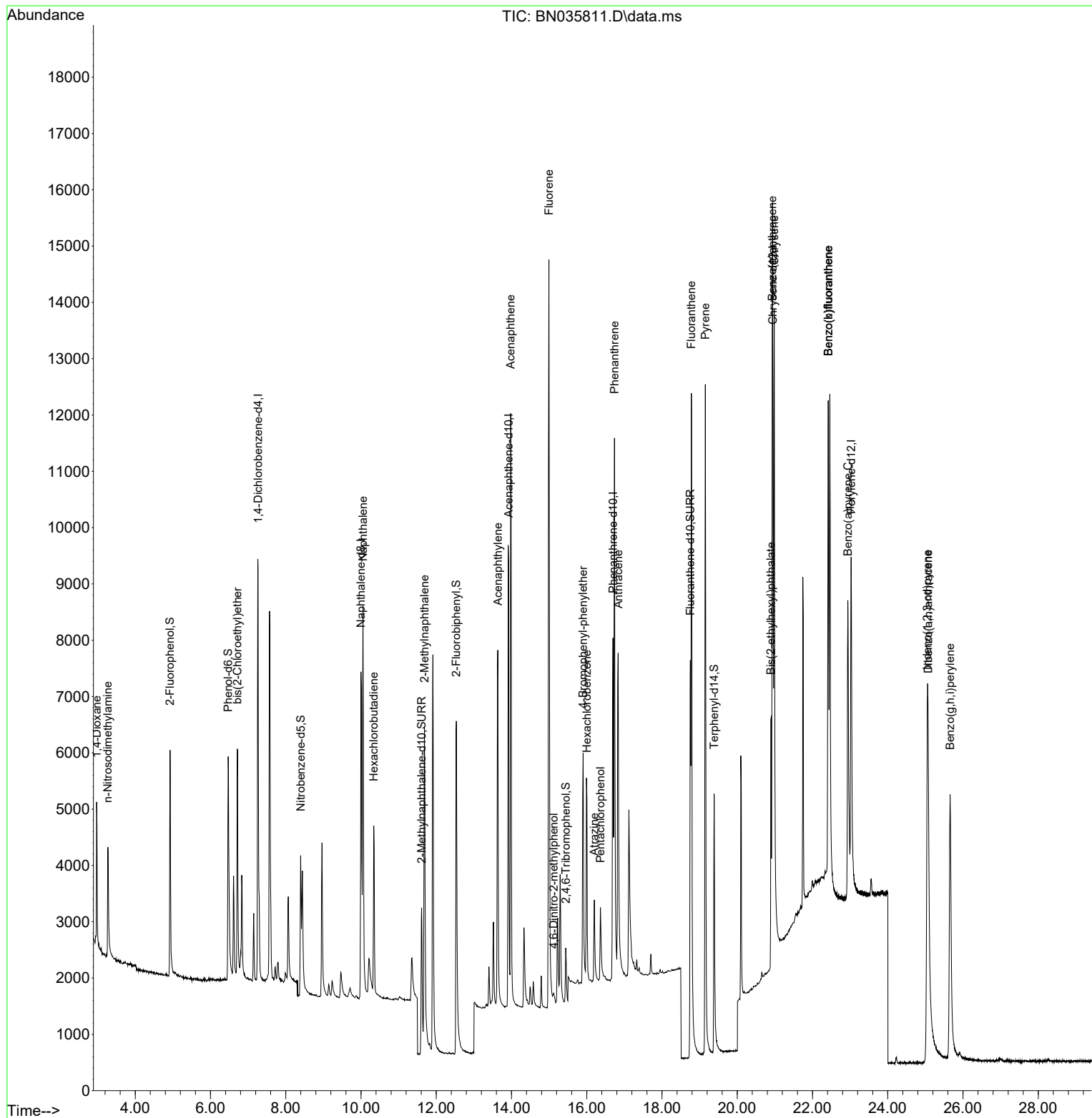
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng	0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng	# 0.00
29) Chrysene-d12	20.947	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						
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

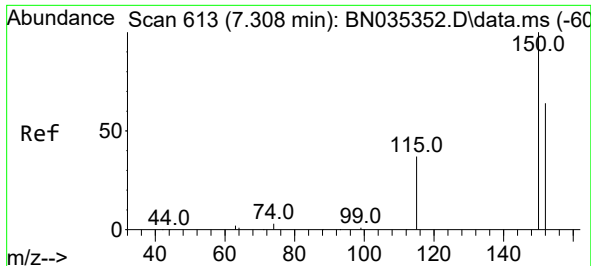
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

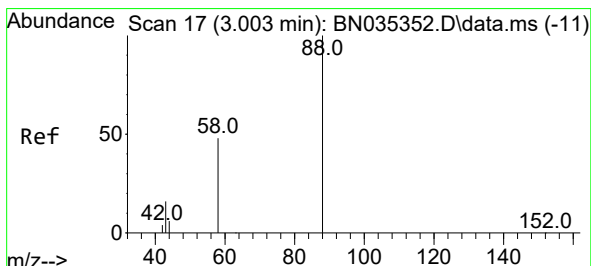
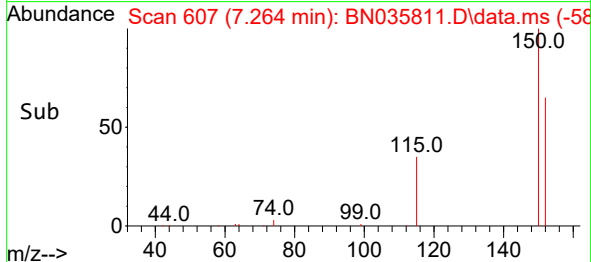
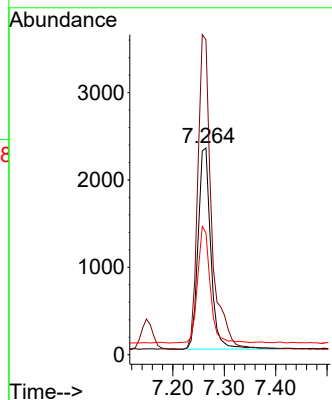
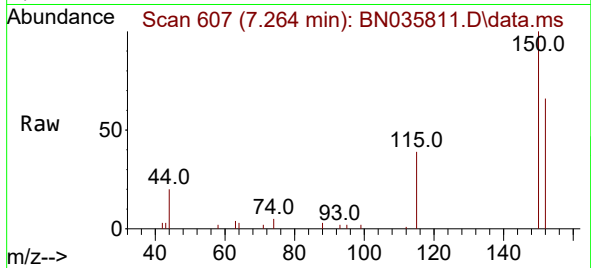




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035811.D
 Acq: 24 Dec 2024 08:59

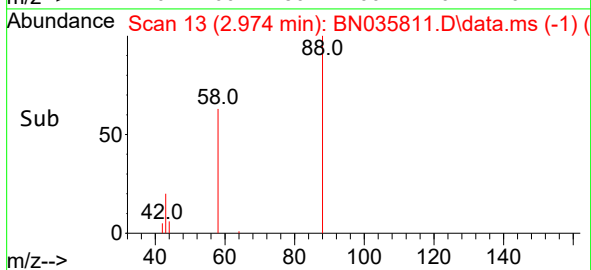
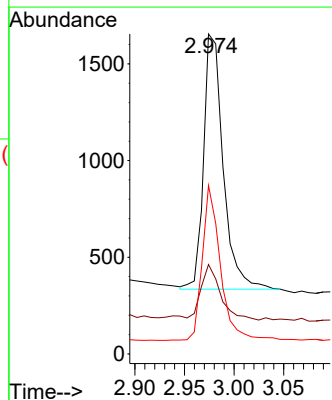
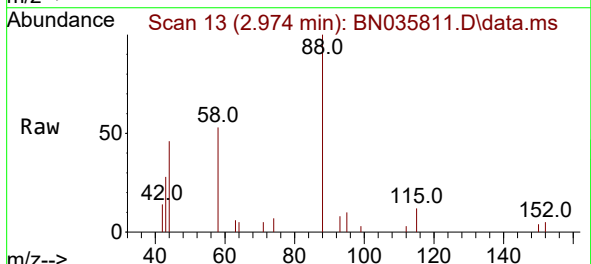
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

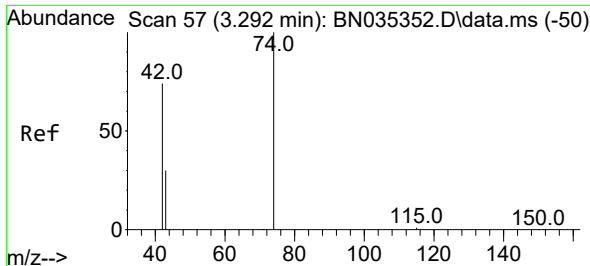
Tgt Ion:152 Resp: 3972
 Ion Ratio Lower Upper
 152 100
 150 152.3 124.0 186.0
 115 58.9 49.6 74.4



#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

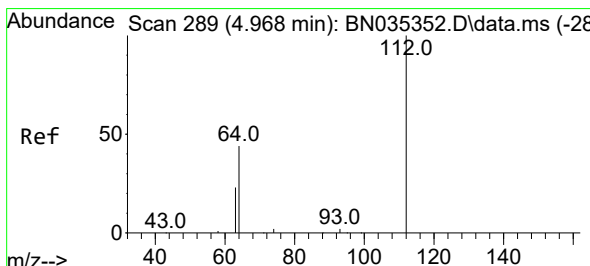
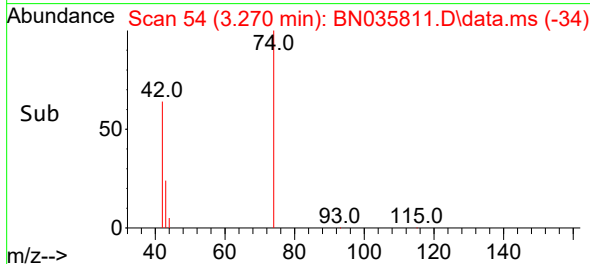
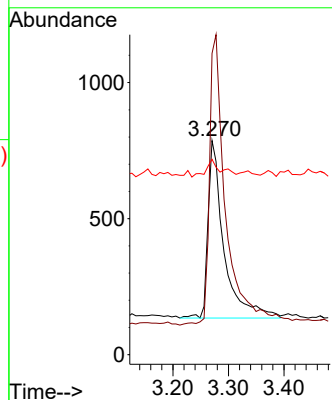
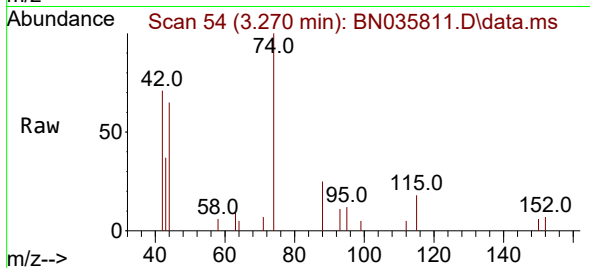




#3
 n-Nitrosodimethylamine
 Concen: 0.412 ng
 RT: 3.270 min Scan# 54
 Delta R.T. -0.007 min
 Lab File: BN035811.D
 Acq: 24 Dec 2024 08:59

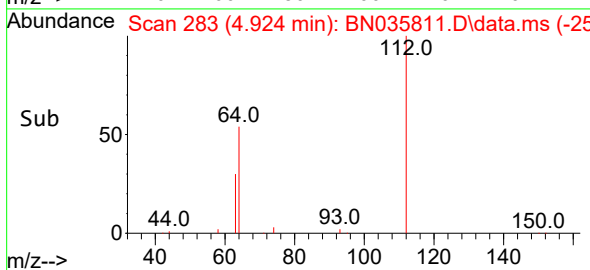
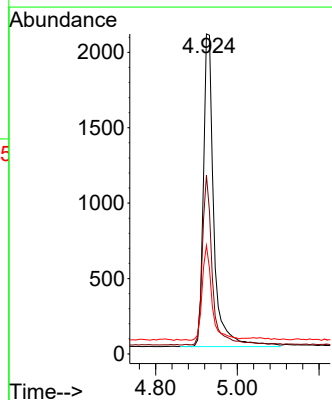
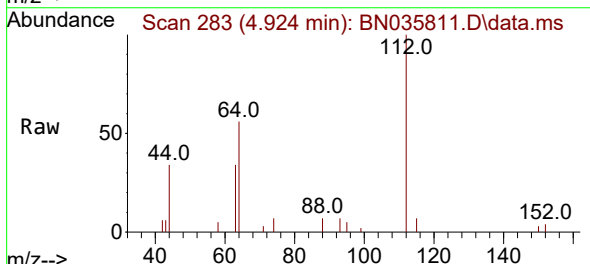
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

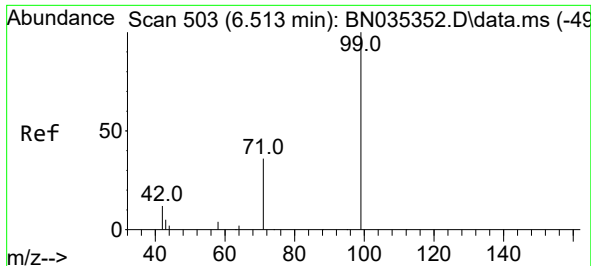
Tgt Ion: 42 Resp: 1302
 Ion Ratio Lower Upper
 42 100
 74 167.4 124.9 187.3
 44 5.4 2.2 3.4#



#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

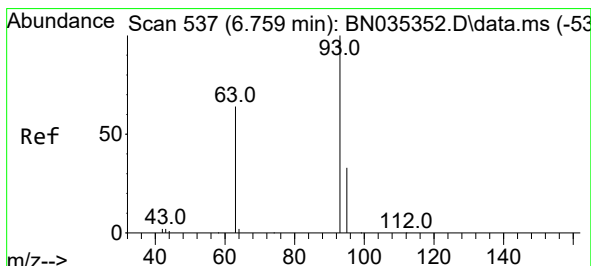
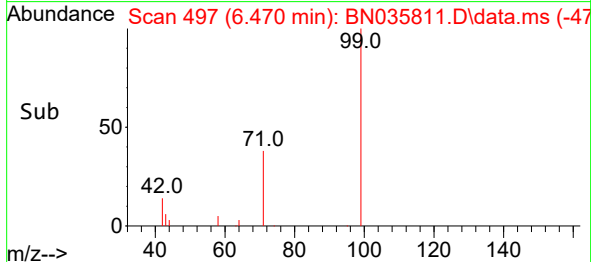
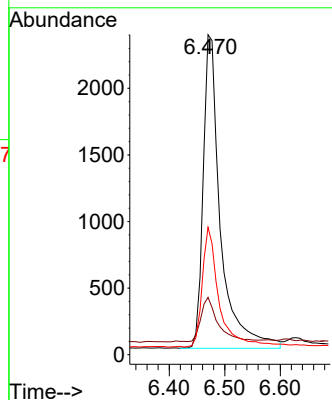
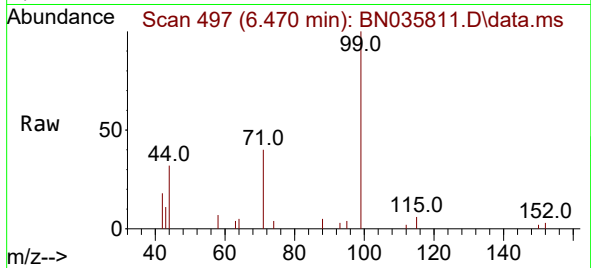




#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

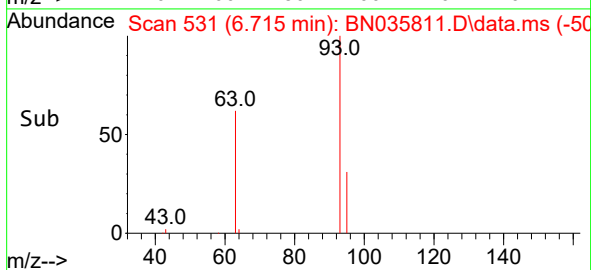
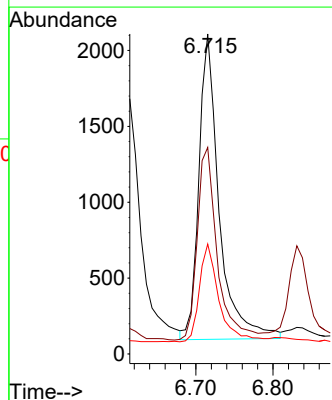
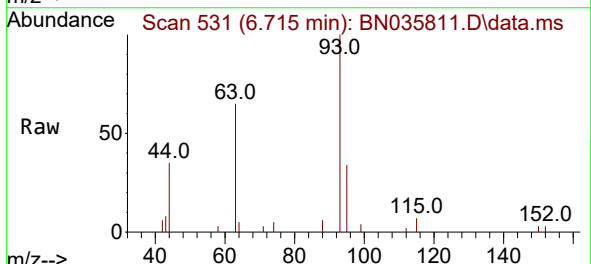
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

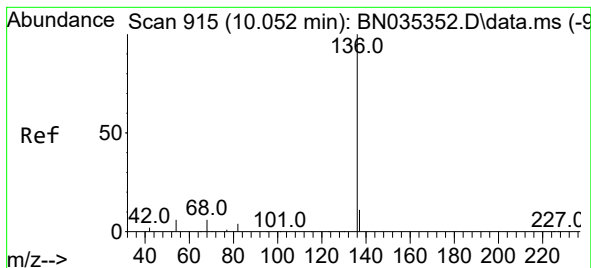
Tgt Ion: 99 Resp: 5118
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.3 29.3 43.9



#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

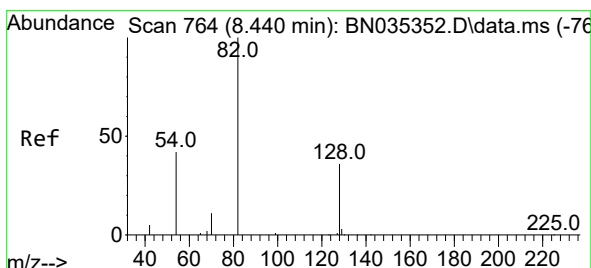
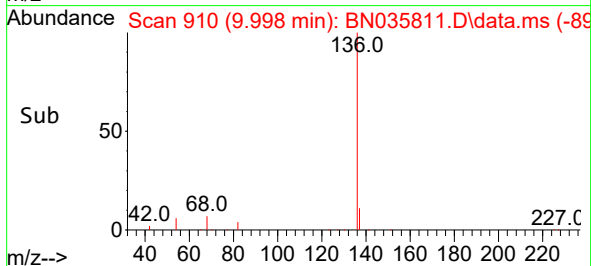
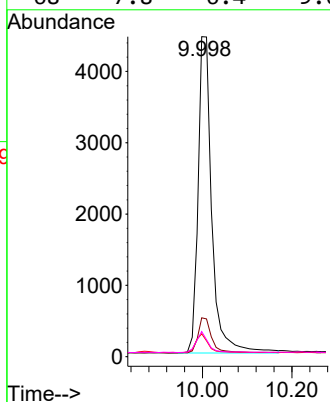
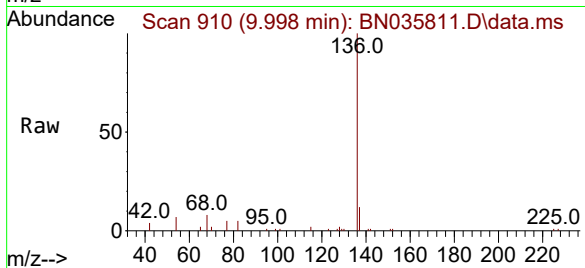
Ion Ratio Lower Upper

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

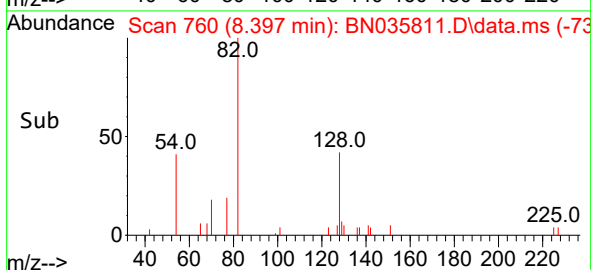
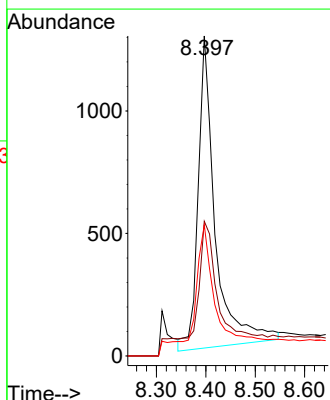
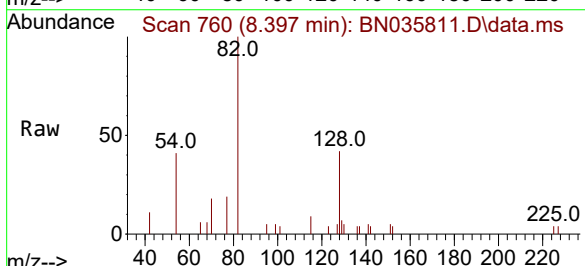
Tgt Ion: 82 Resp: 3046

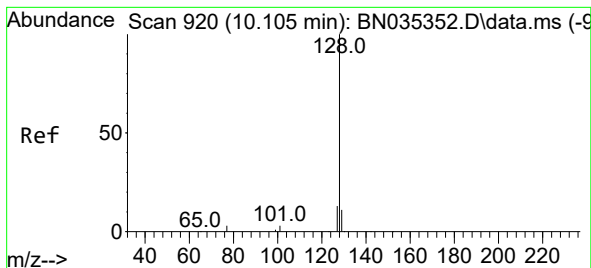
Ion Ratio Lower Upper

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# 91

Delta R.T. -0.011 min

Lab File: BN035811.D

Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

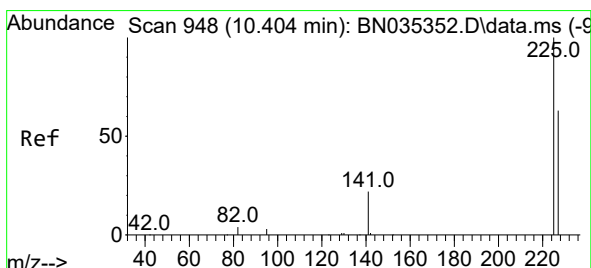
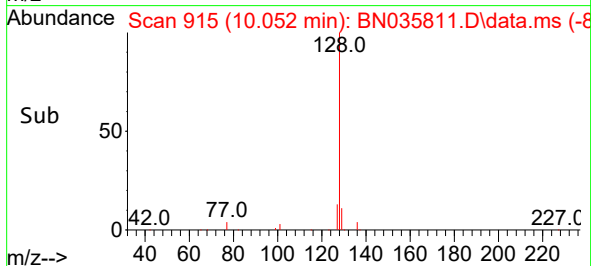
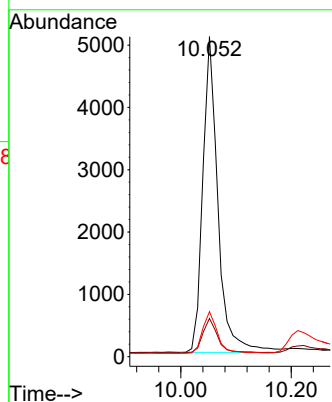
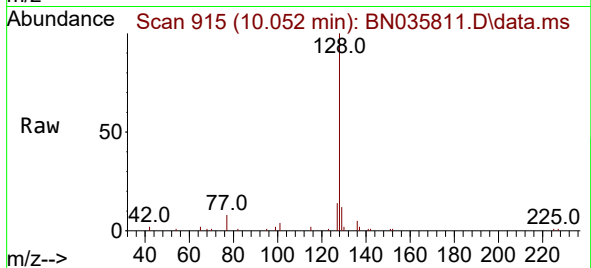
Tgt Ion:128 Resp: 9671

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

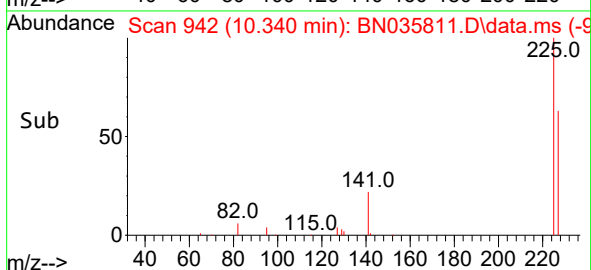
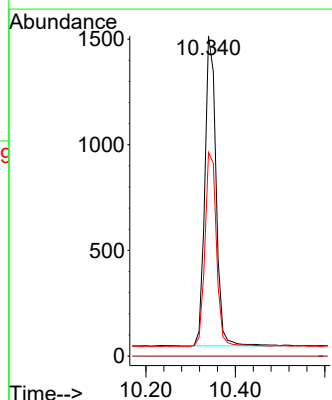
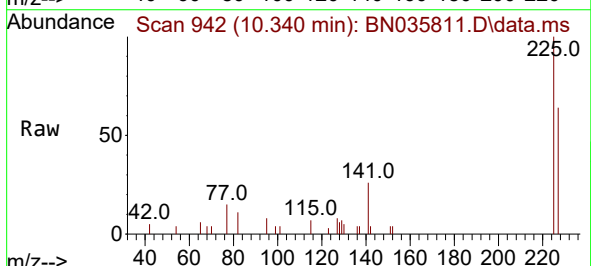
Tgt Ion:225 Resp: 2548

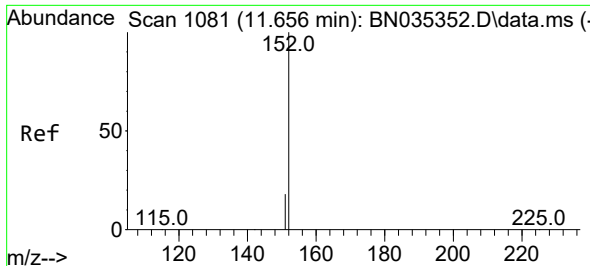
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

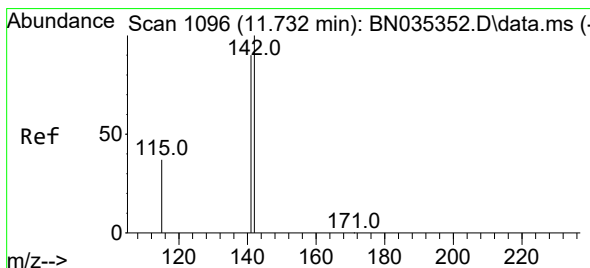
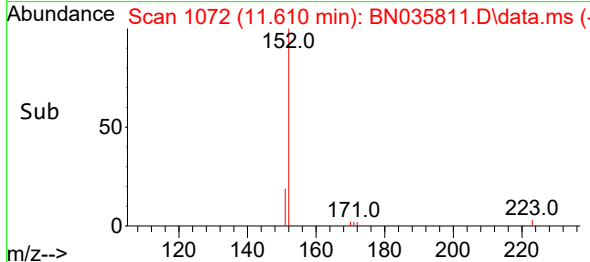
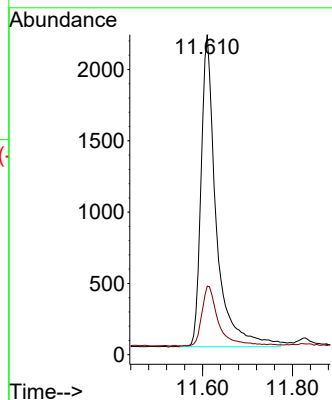
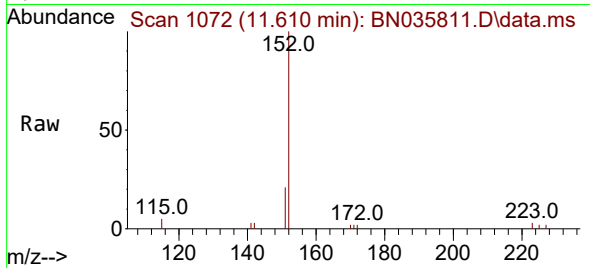




#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

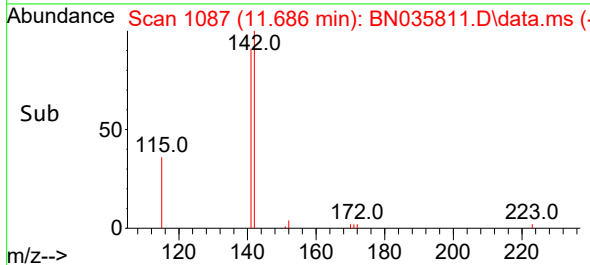
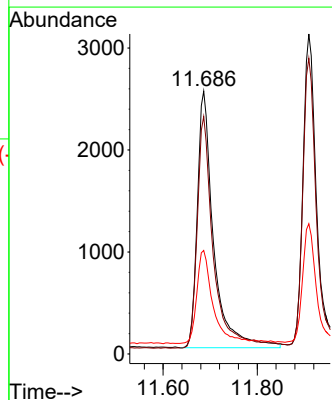
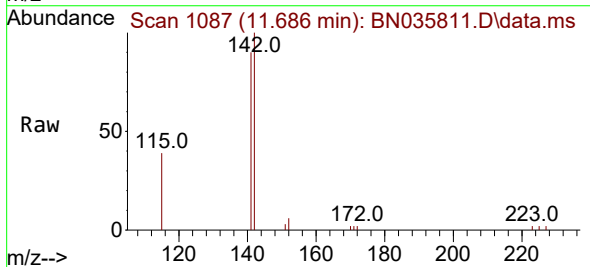
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

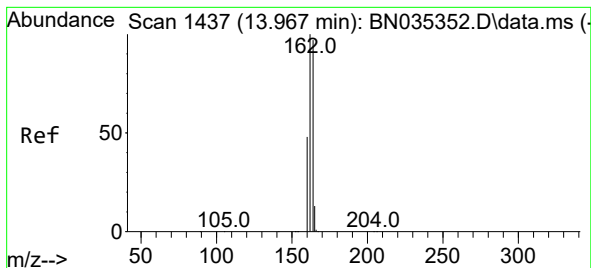
Tgt Ion:152 Resp: 5128
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#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

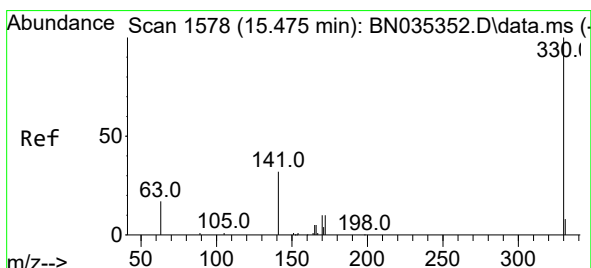
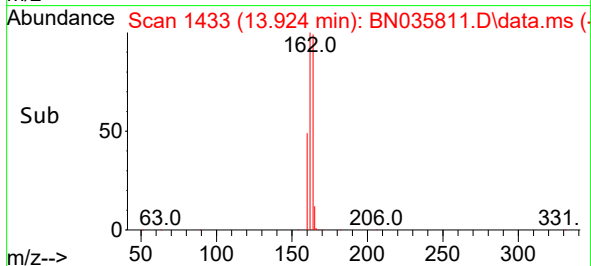
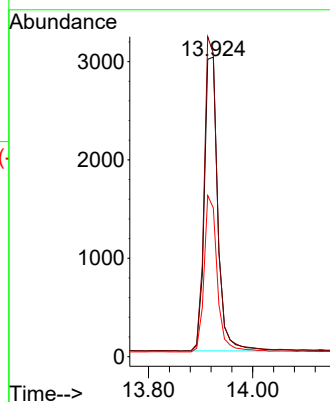
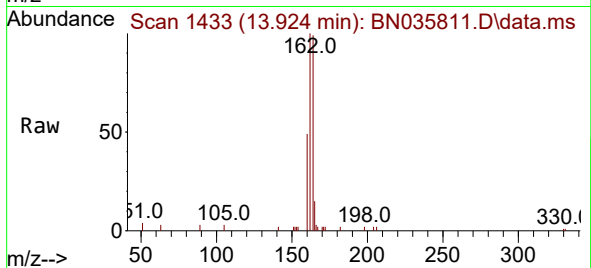
Tgt Ion:164 Resp: 5387

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

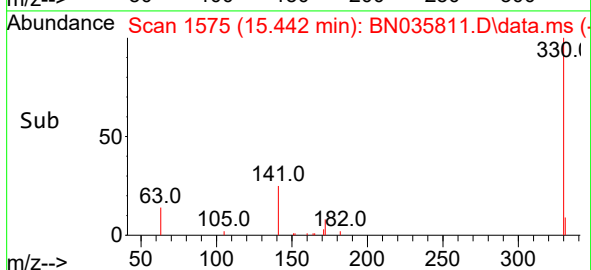
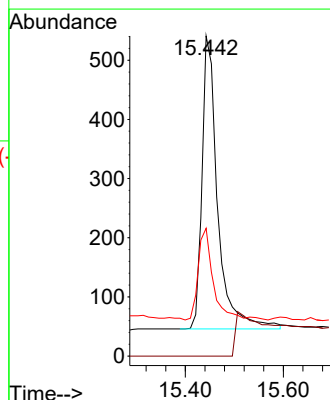
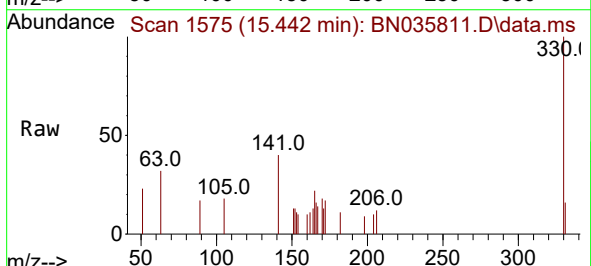
Tgt Ion:330 Resp: 1155

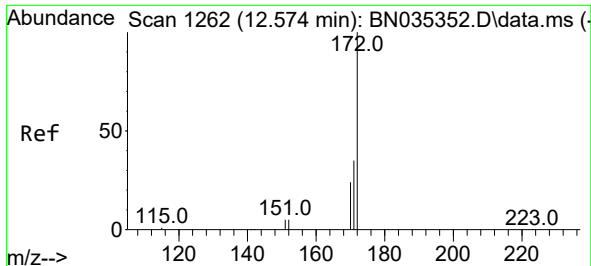
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 30.2 26.6 40.0

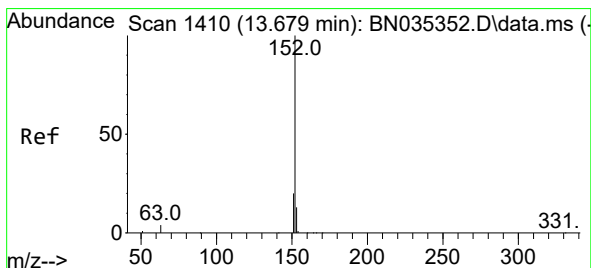
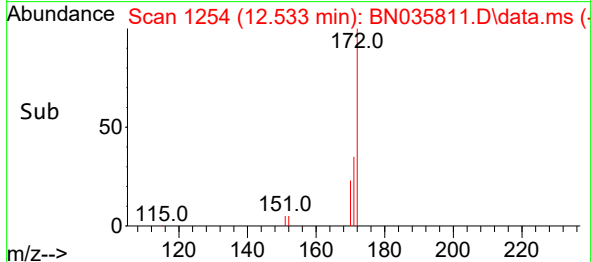
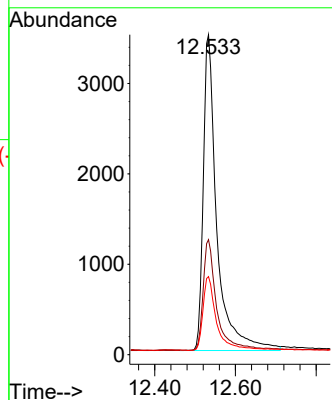
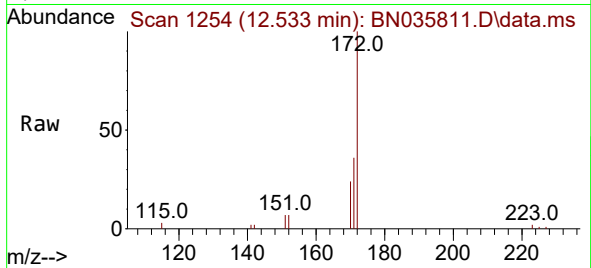




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

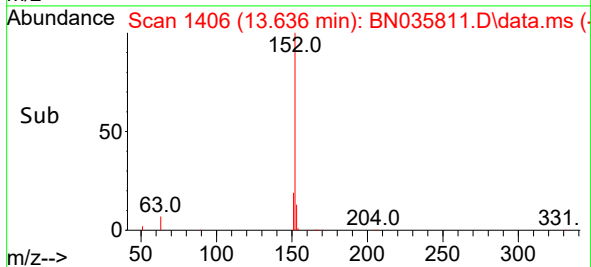
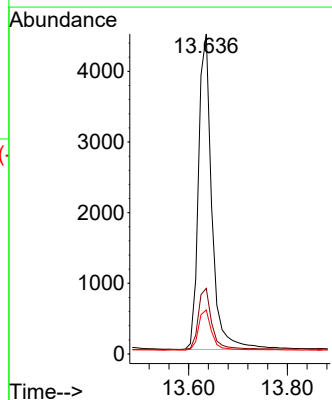
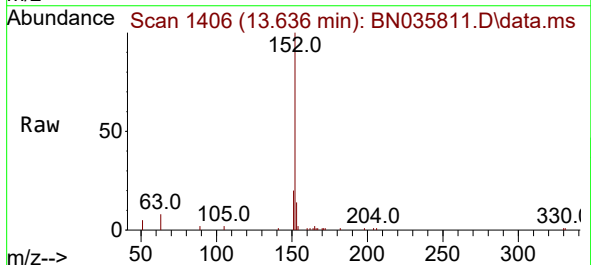
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

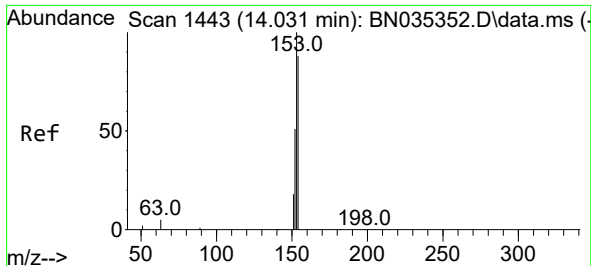
Tgt Ion:172 Resp: 8203
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 24.4 19.8 29.8



#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

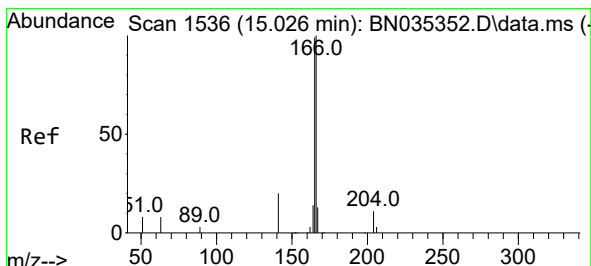
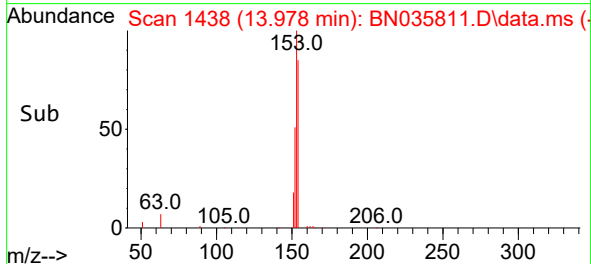
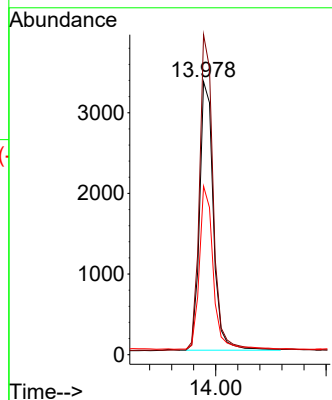
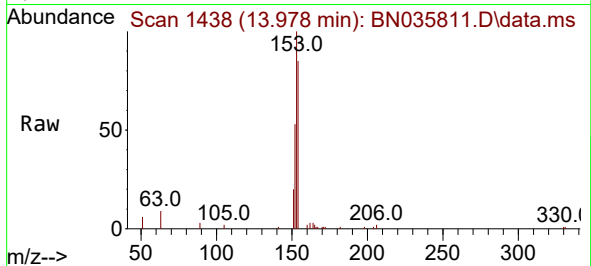




#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

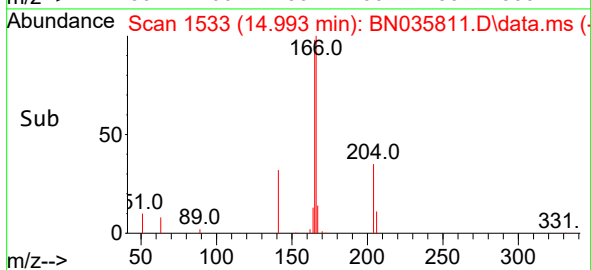
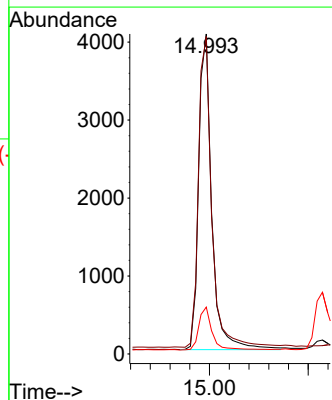
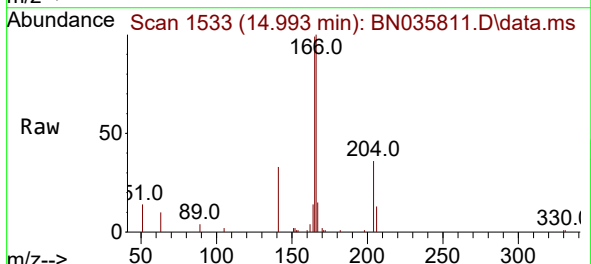
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

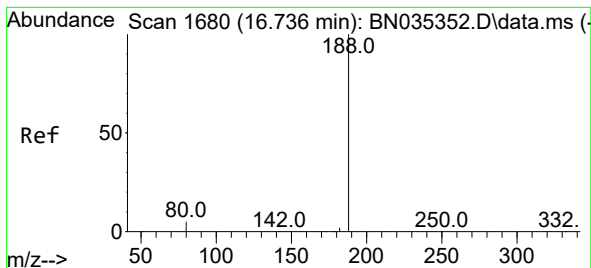
Tgt Ion:154 Resp: 5782
Ion Ratio Lower Upper
154 100
153 117.6 92.6 139.0
152 60.7 49.0 73.6



#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

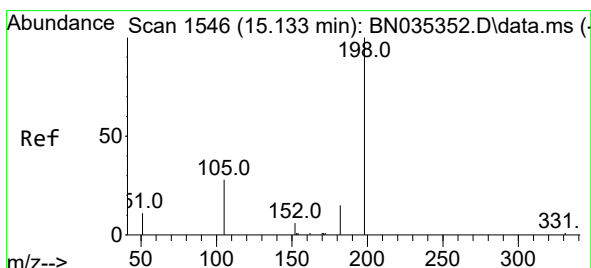
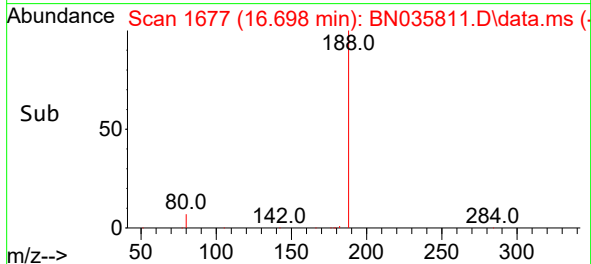
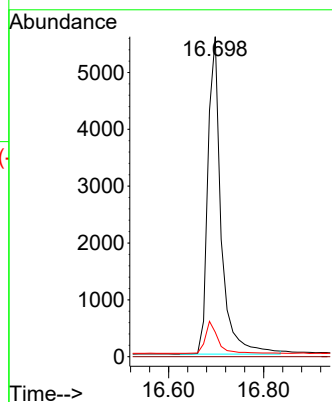
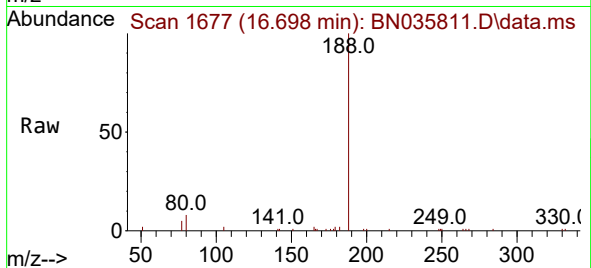
Tgt Ion:188 Resp: 10855

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

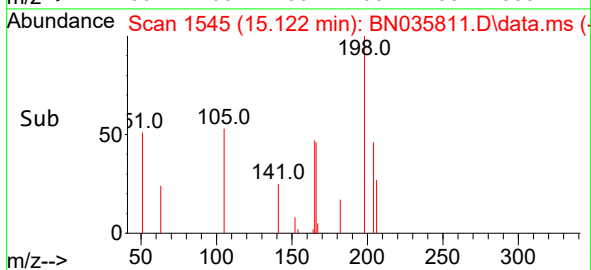
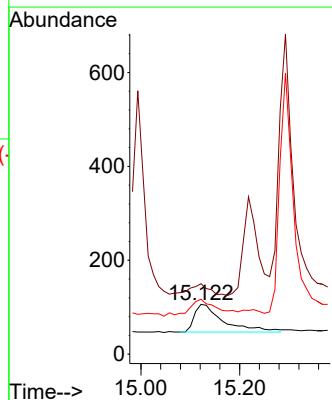
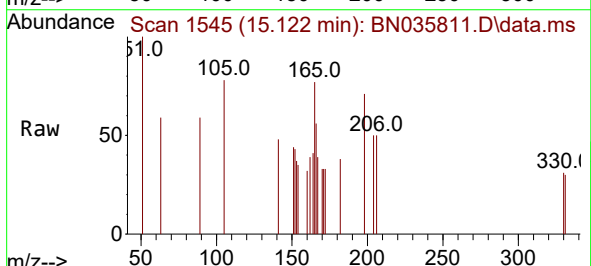
Tgt Ion:198 Resp: 244

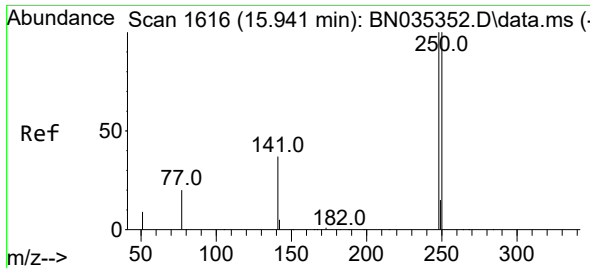
Ion Ratio Lower Upper

198 100

51 141.5 46.5 69.7#

105 110.4 45.3 67.9#

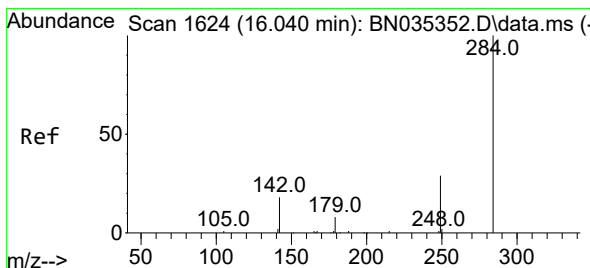
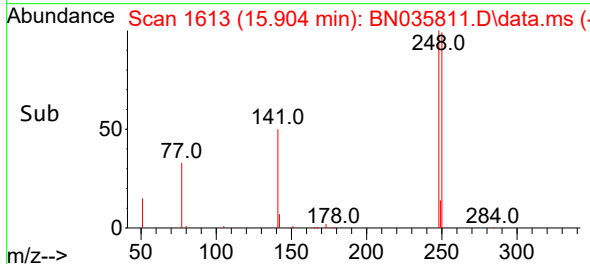
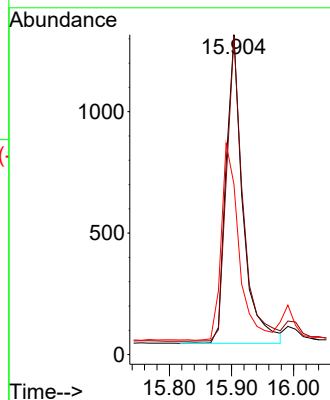
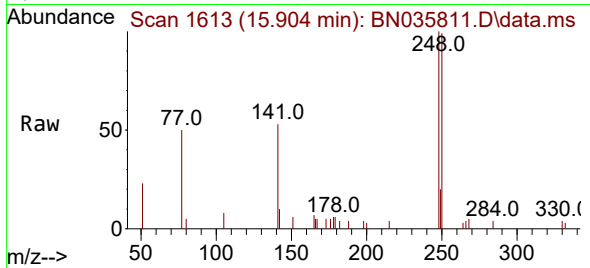




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

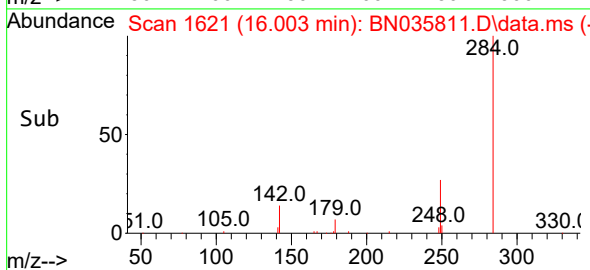
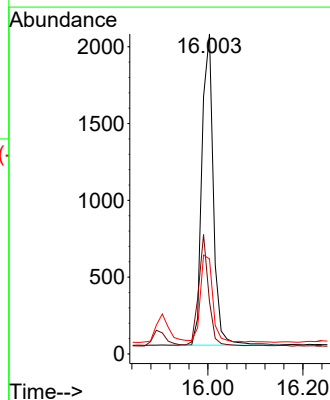
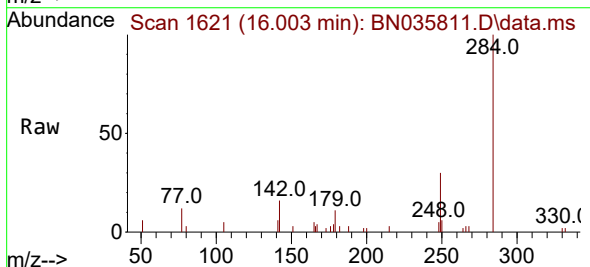
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

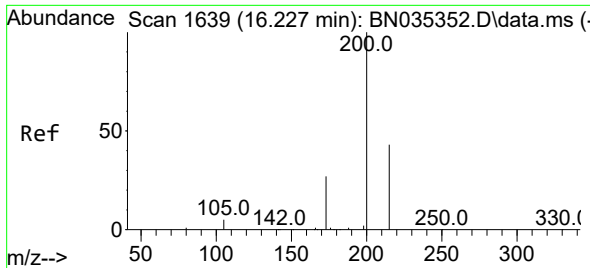
Tgt Ion:248 Resp: 2379
Ion Ratio Lower Upper
248 100
250 99.5 80.6 120.8
141 53.2 31.5 47.3#



#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

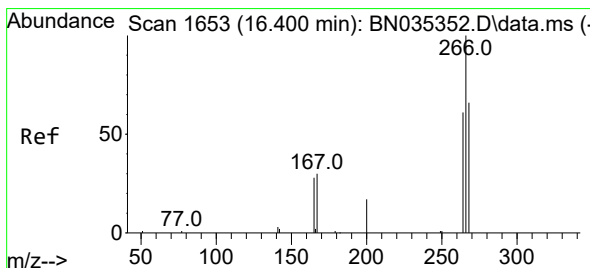
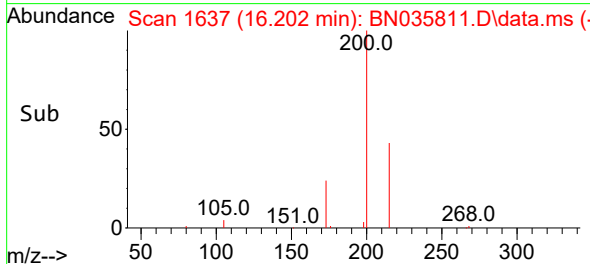
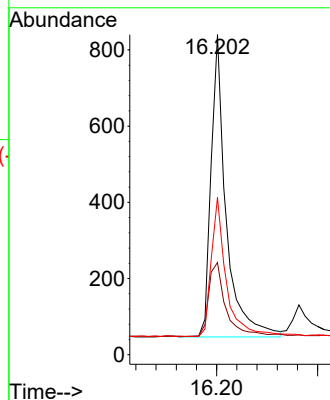
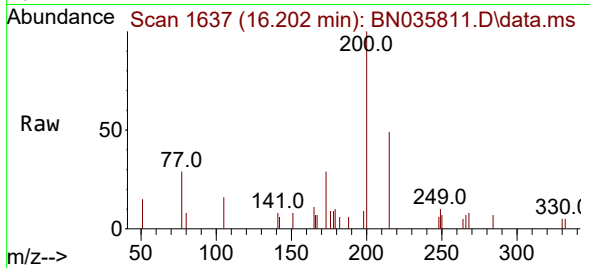




#23
 Atrazine
 Concen: 0.363 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035811.D
 Acq: 24 Dec 2024 08:59

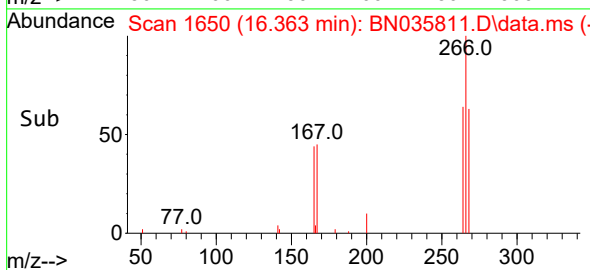
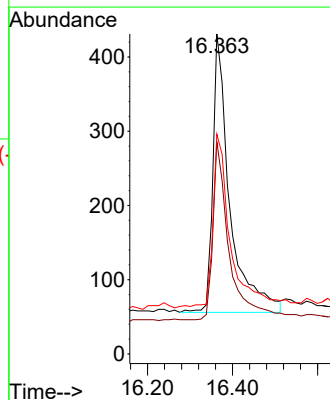
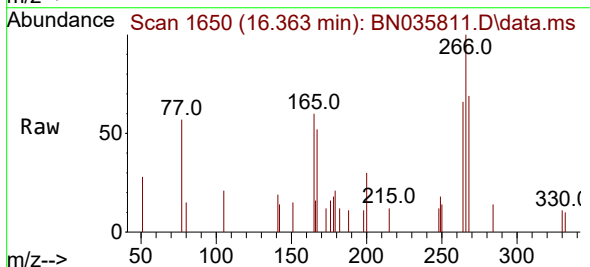
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

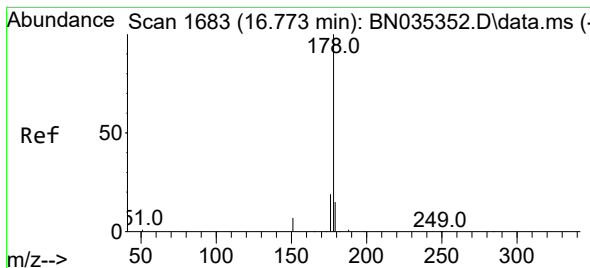
Tgt Ion:	200	Resp:	1640
Ion Ratio	Lower	Upper	
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3



#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# 1680

Delta R.T. -0.013 min

Lab File: BN035811.D

Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

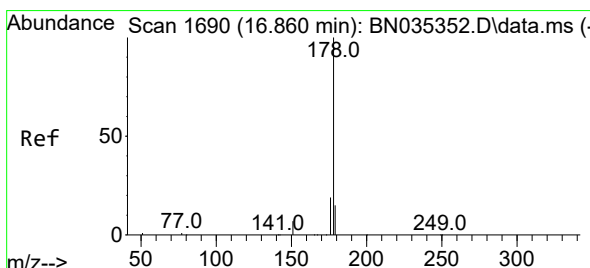
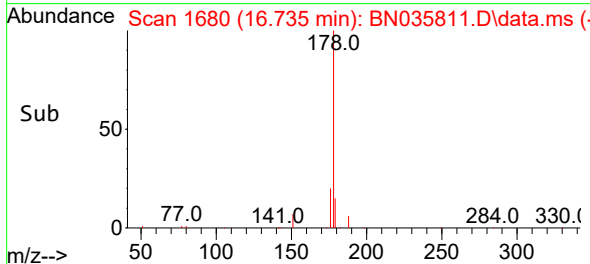
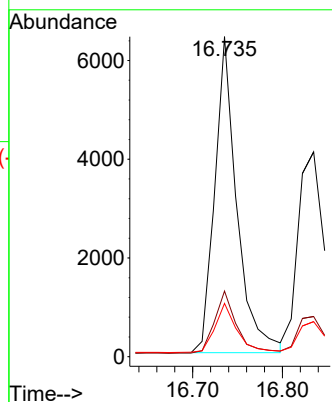
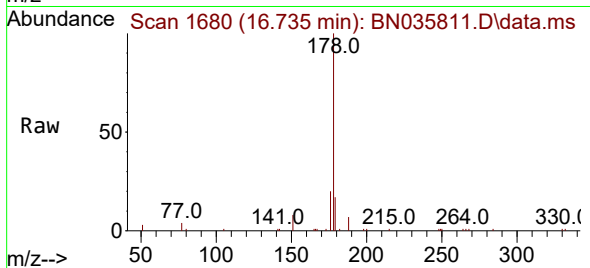
Tgt Ion:178 Resp: 10950

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

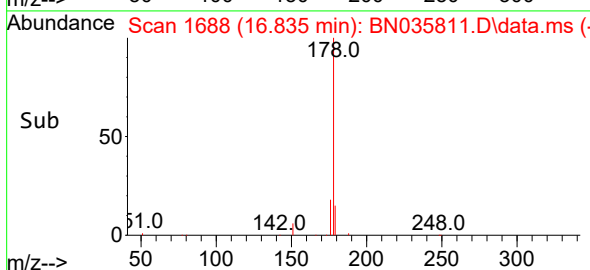
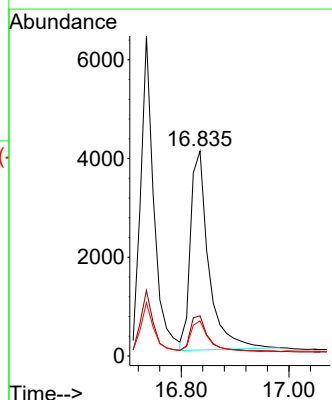
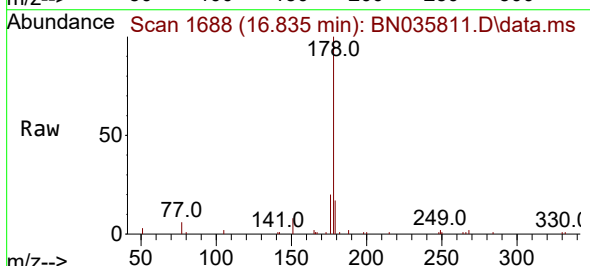
Tgt Ion:178 Resp: 9488

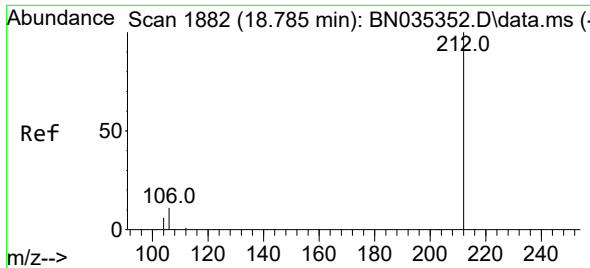
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.7 12.6 18.8

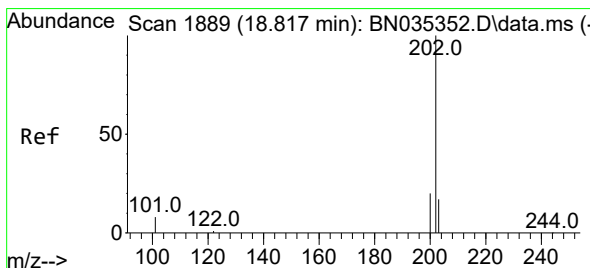
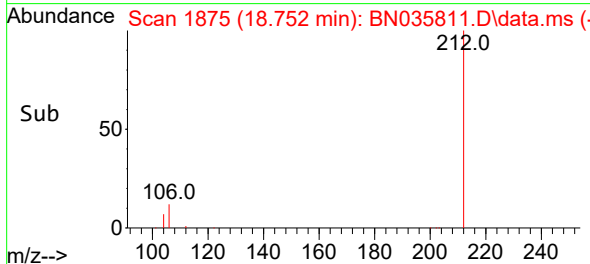
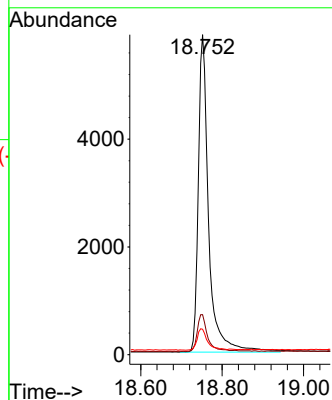
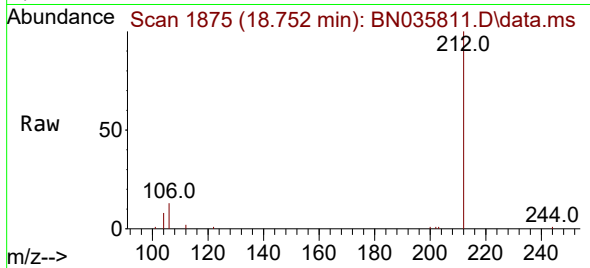




#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

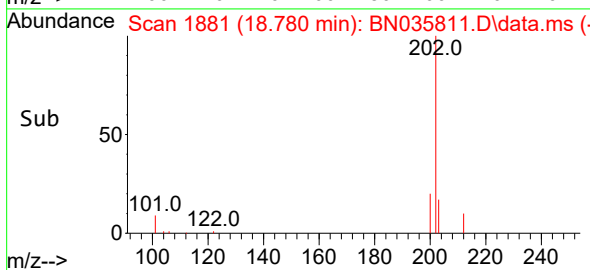
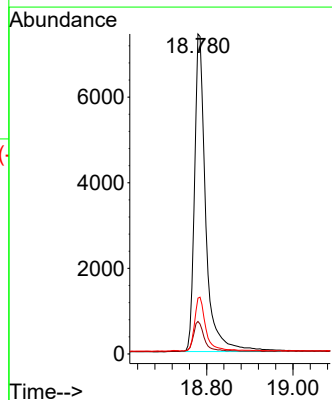
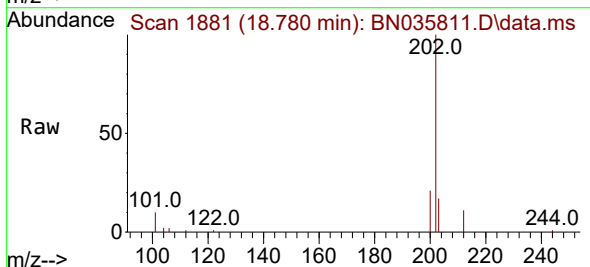
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

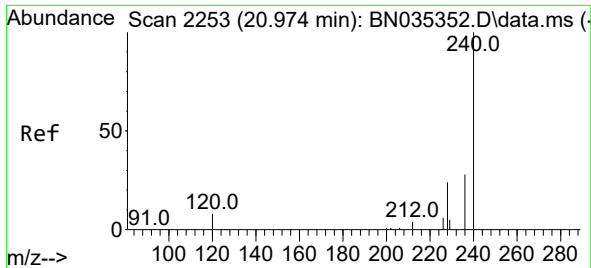
Tgt Ion:212 Resp: 10340
Ion Ratio Lower Upper
212 100
106 11.6 9.2 13.8
104 6.8 5.3 7.9



#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

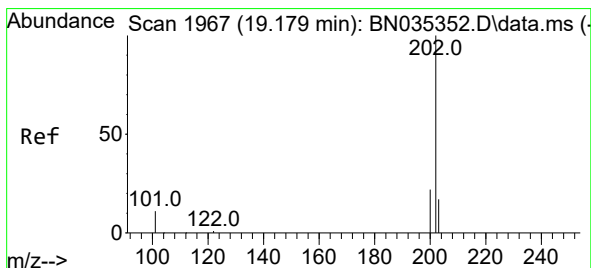
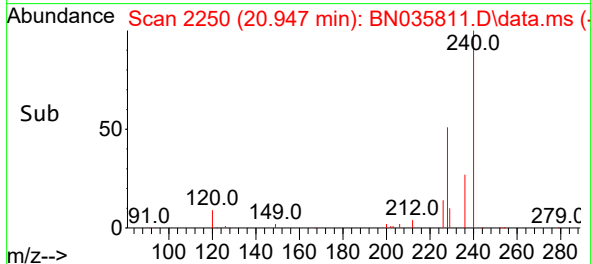
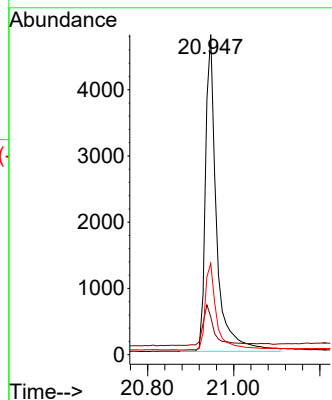
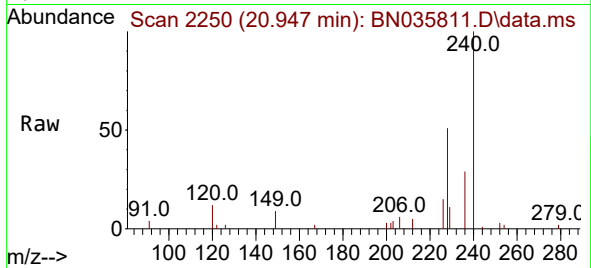




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

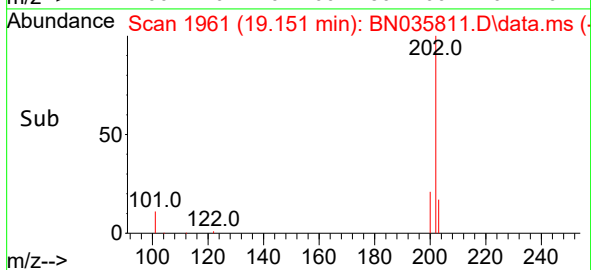
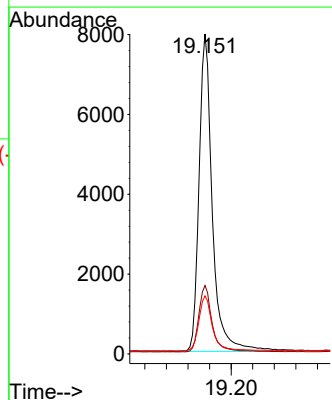
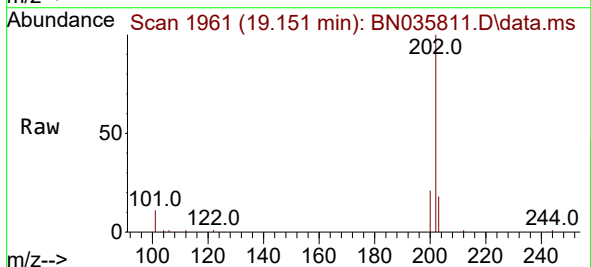
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

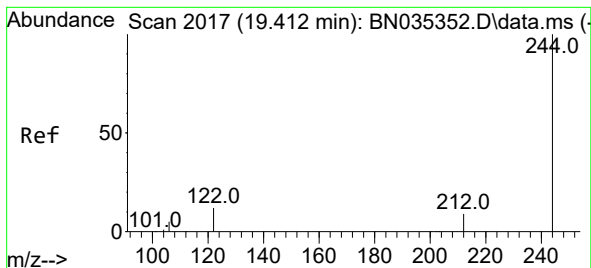
Tgt Ion:240 Resp: 8569
Ion Ratio Lower Upper
240 100
120 11.8 7.9 11.9
236 28.6 22.9 34.3



#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# 2017

Delta R.T. -0.005 min

Lab File: BN035811.D

Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

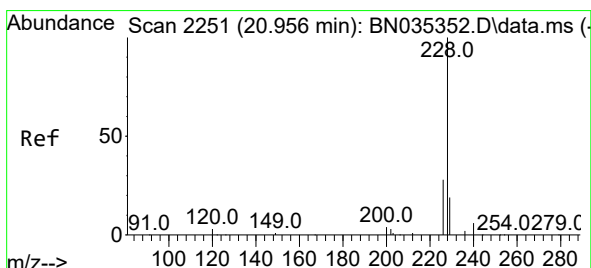
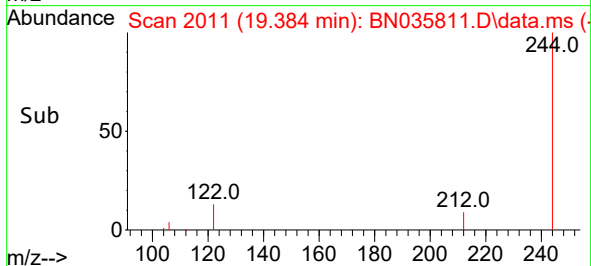
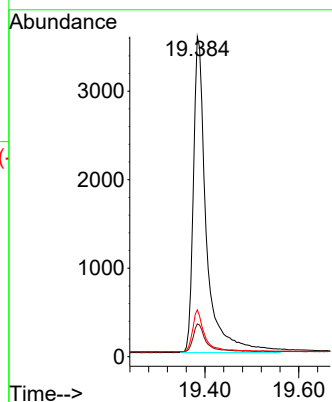
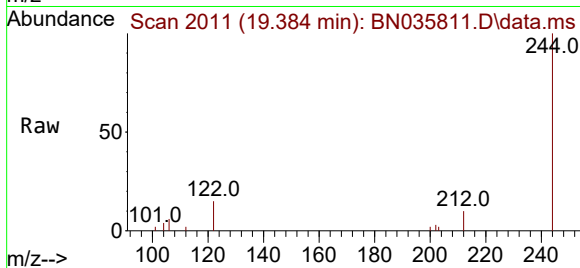
Tgt Ion:244 Resp: 6888

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

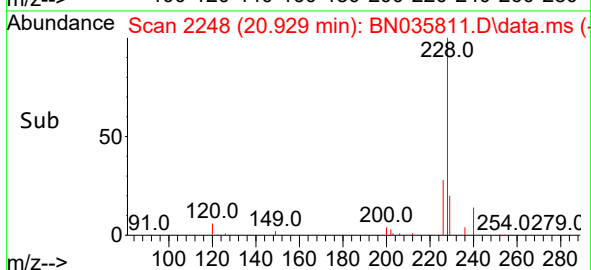
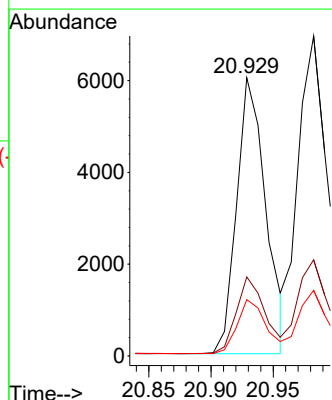
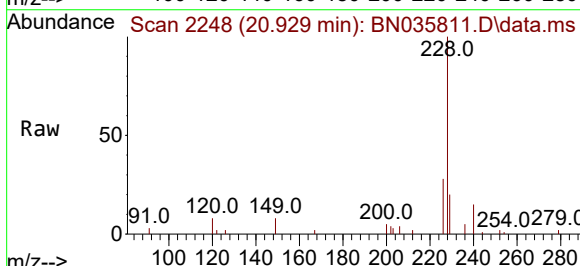
Tgt Ion:228 Resp: 9796

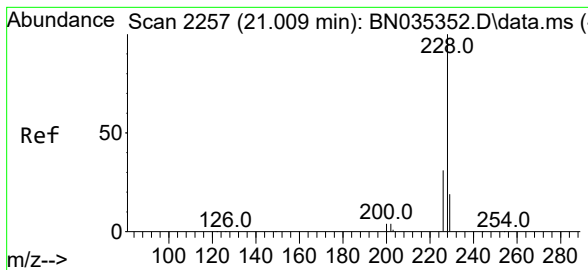
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.009 min

Lab File: BN035811.D

Acq: 24 Dec 2024 08:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

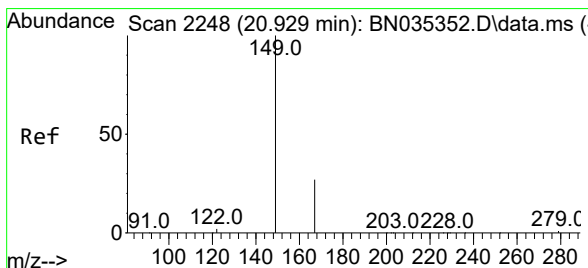
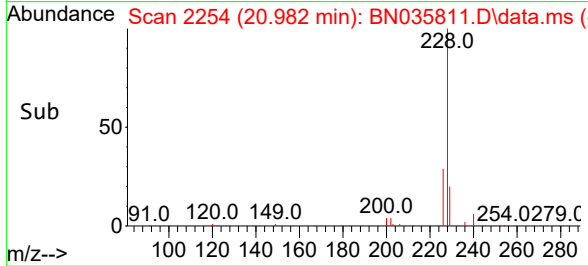
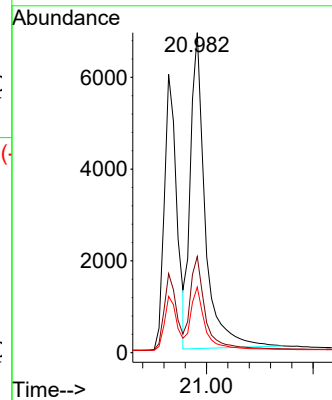
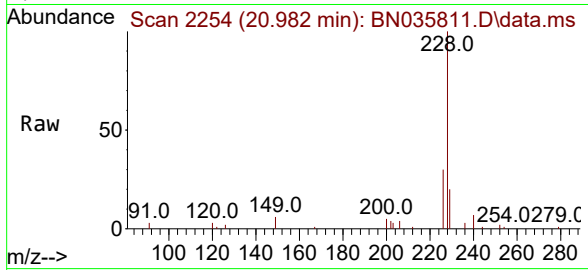
Tgt Ion:228 Resp: 13234

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

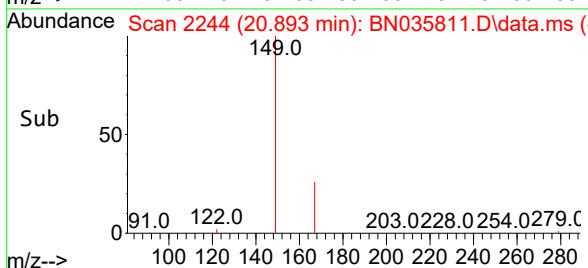
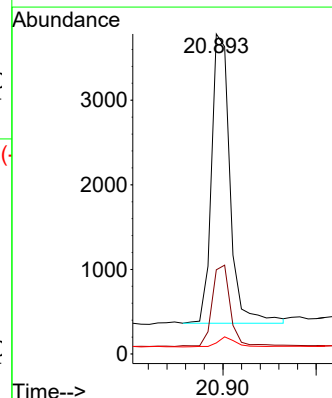
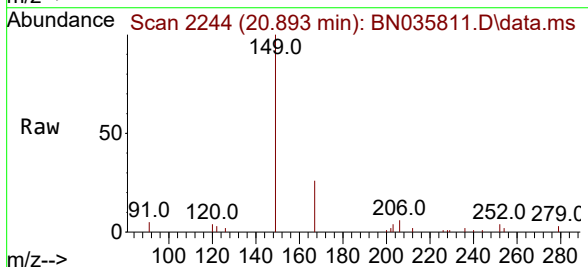
Tgt Ion:149 Resp: 4719

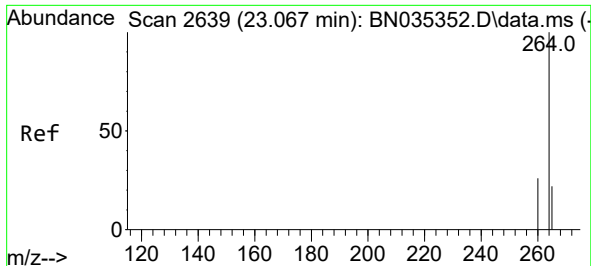
Ion Ratio Lower Upper

149 100

167 27.9 22.2 33.4

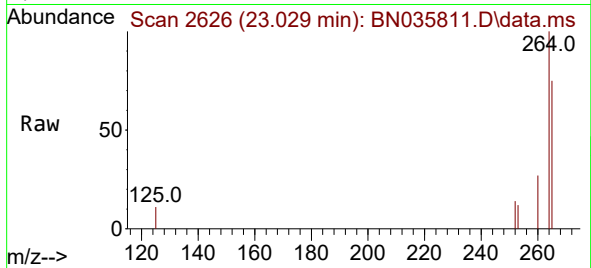
279 3.4 2.7 4.1



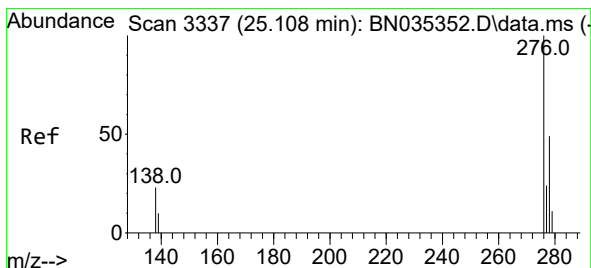
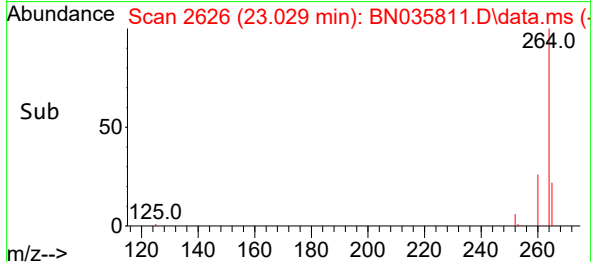
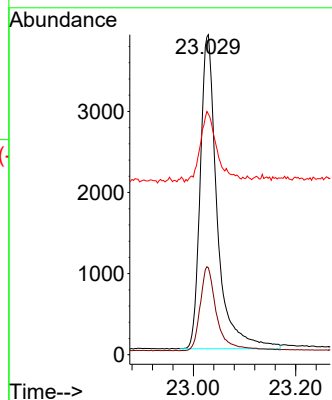


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

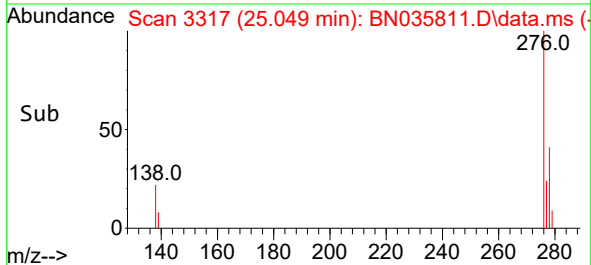
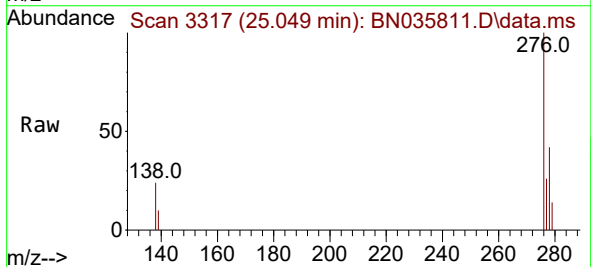
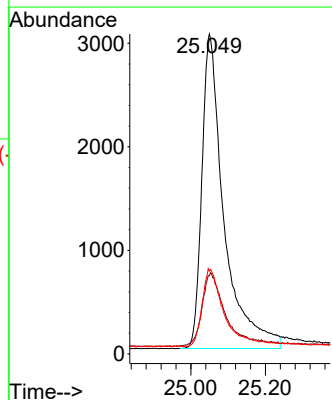


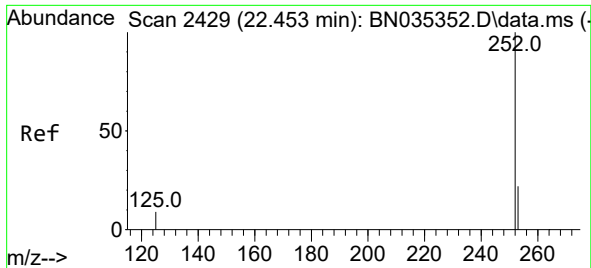
Tgt Ion:264 Resp: 8879
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 75.2 40.2 60.4#



#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

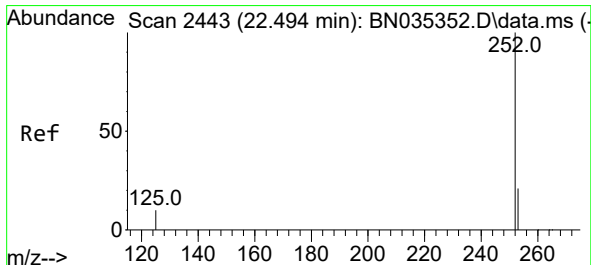
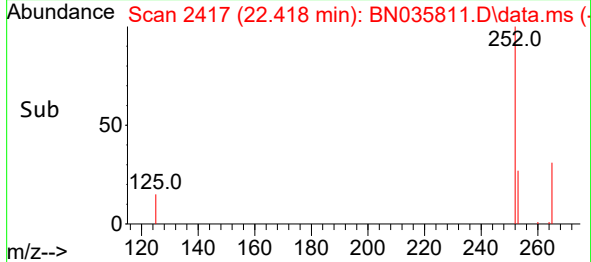
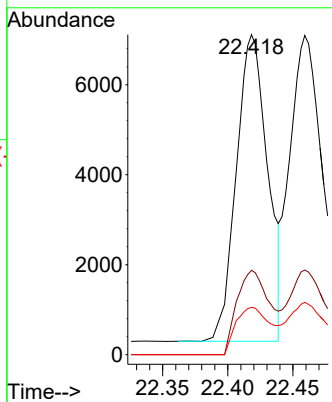
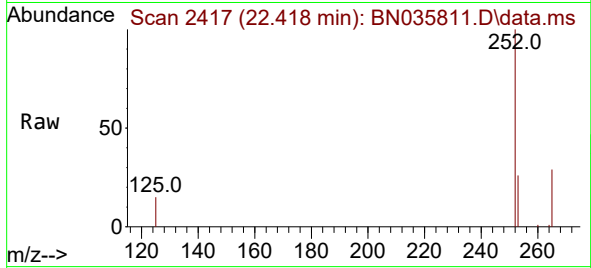




#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

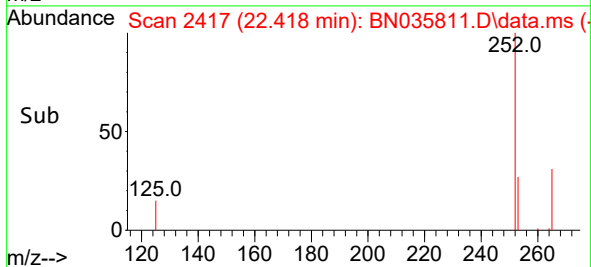
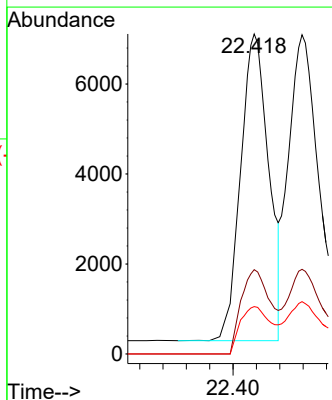
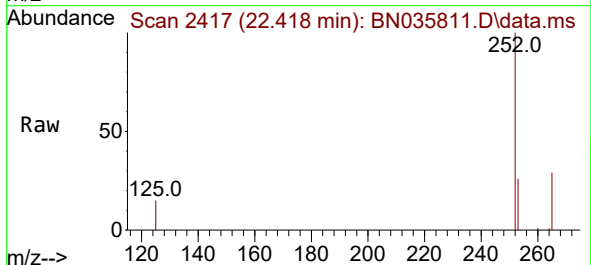
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

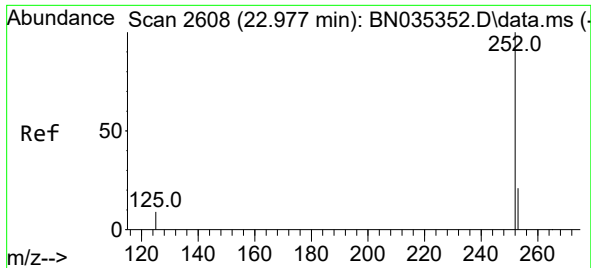
Tgt Ion:252 Resp: 16964
Ion Ratio Lower Upper
252 100
253 26.3 19.6 29.4
125 14.8 9.6 14.4#



#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

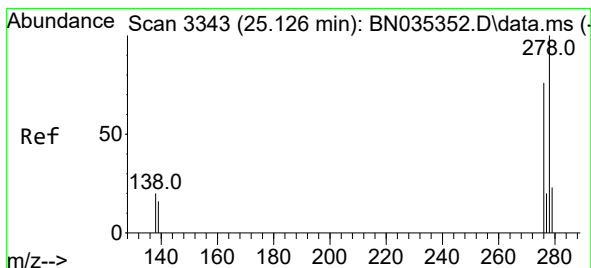
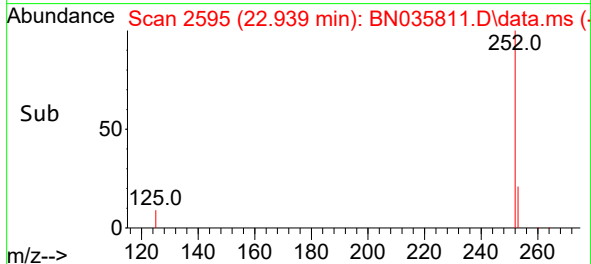
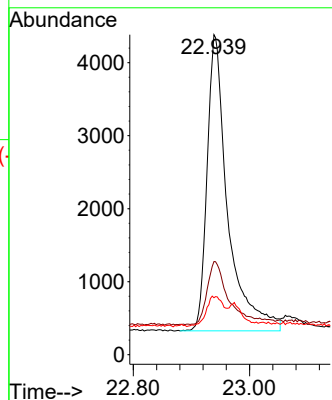
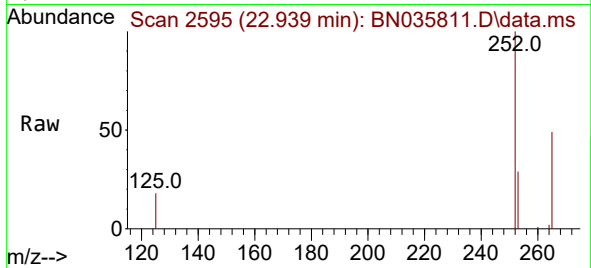




#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

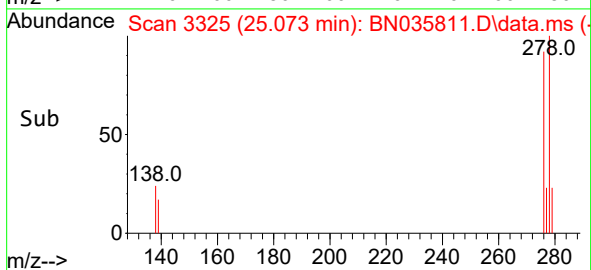
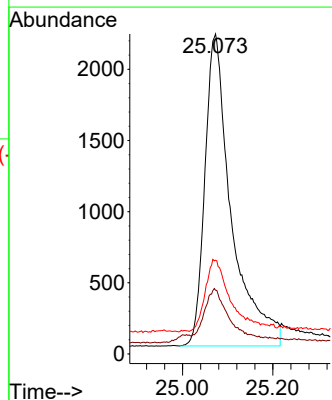
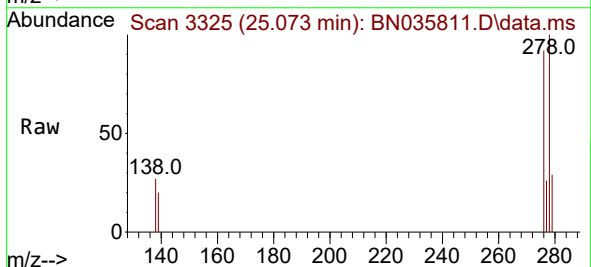
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

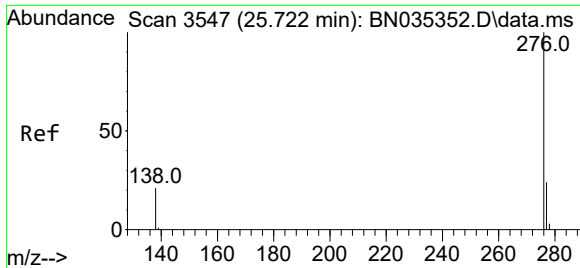
Tgt Ion:252 Resp: 10000
Ion Ratio Lower Upper
252 100
253 29.1 20.2 30.4
125 17.8 10.9 16.3#



#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

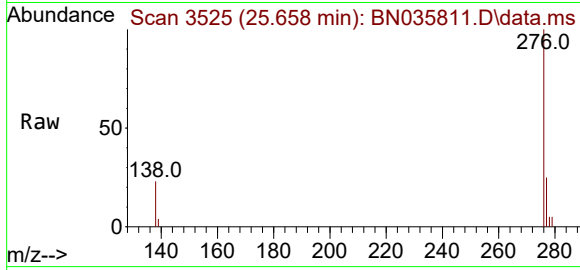
Tgt Ion:278 Resp: 8960
Ion Ratio Lower Upper
278 100
139 19.9 14.2 21.4
279 29.3 20.5 30.7



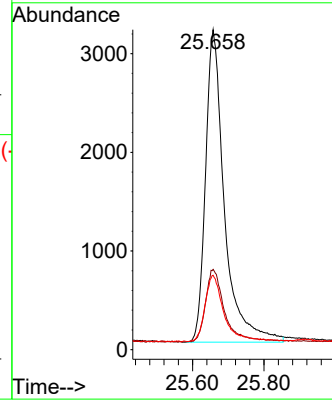
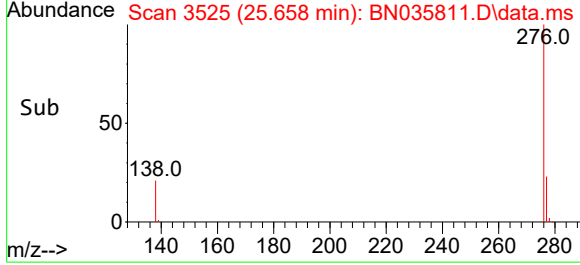


#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 31
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035812.D
 Acq On : 24 Dec 2024 09:35
 Operator : RC/JU
 Sample : PB165828BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165828BL

Quant Time: Dec 24 23:16:34 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	3197	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	6952	0.400	ng	0.00
13) Acenaphthene-d10	13.935	164	4346	0.400	ng	0.00
19) Phenanthrene-d10	16.711	188	8099	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	6756	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2496	0.312	ng	0.00
5) Phenol-d6	6.484	99	2096	0.218	ng	0.00
8) Nitrobenzene-d5	8.418	82	1815	0.427	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	3741	0.344	ng	0.02
14) 2,4,6-Tribromophenol	15.475	330	490	0.159	ng	0.02
15) 2-Fluorobiphenyl	12.564	172	5652	0.344	ng	0.02
27) Fluoranthene-d10	18.761	212	9188	0.400	ng	0.00
31) Terphenyl-d14	19.393	244	6413	0.481	ng	0.00

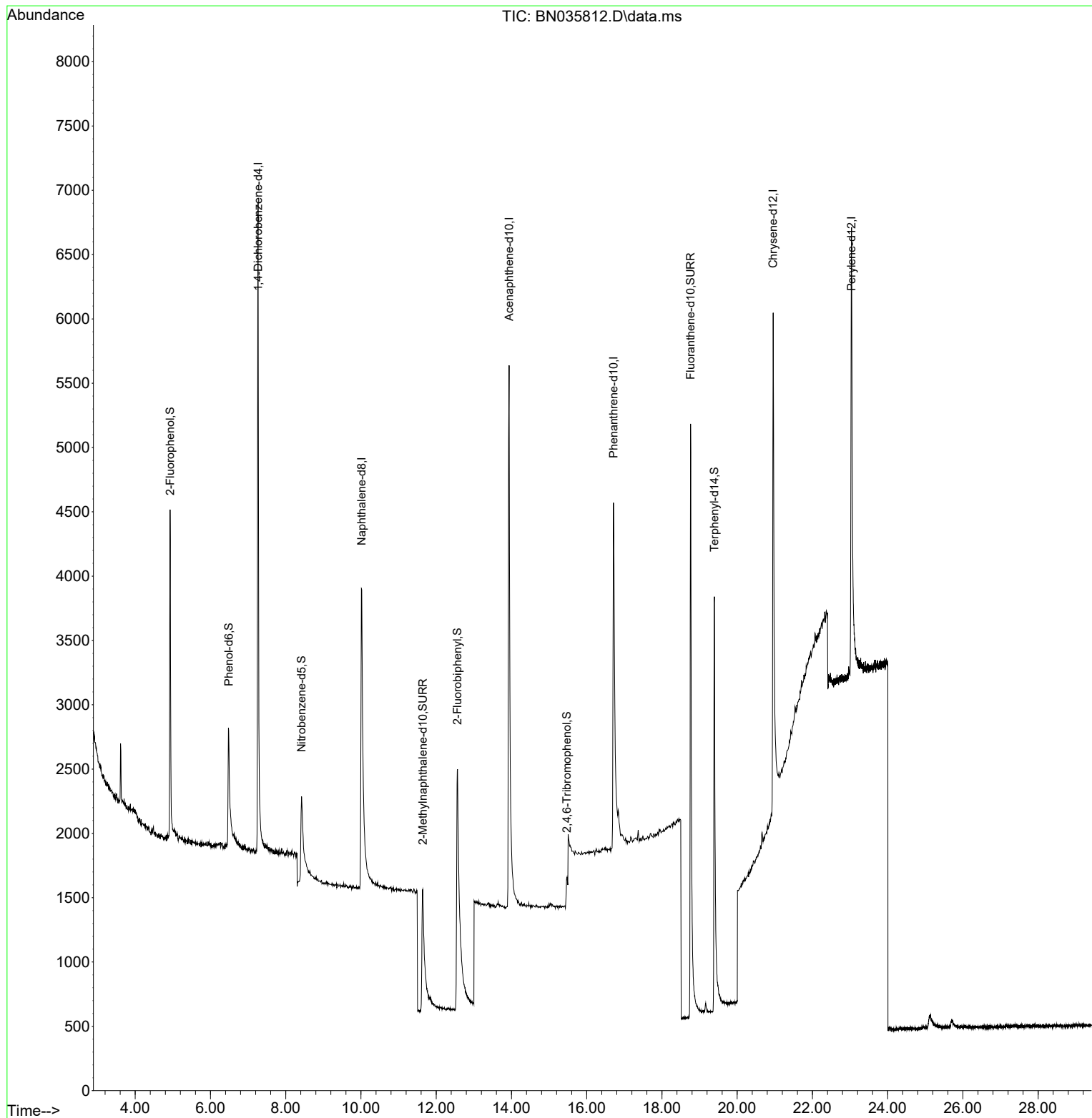
Target Compounds Qvalue

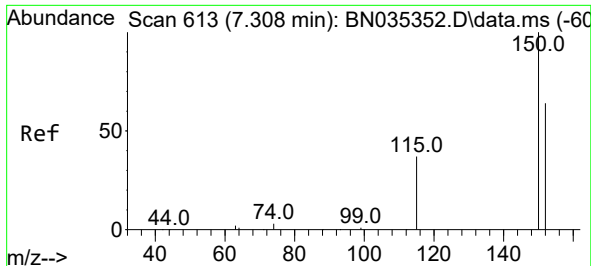
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

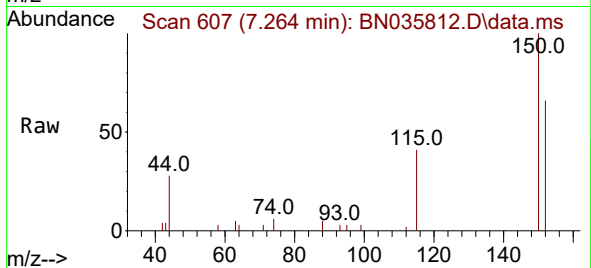
Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



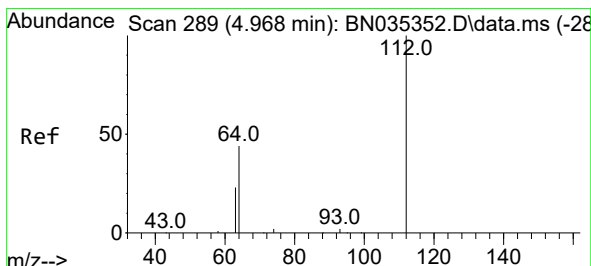
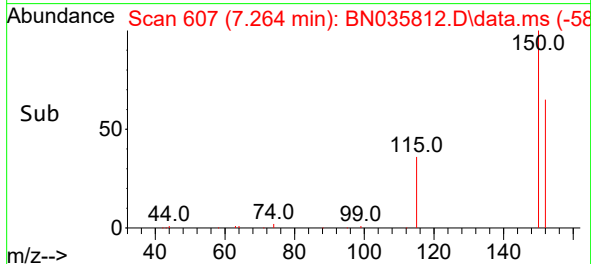
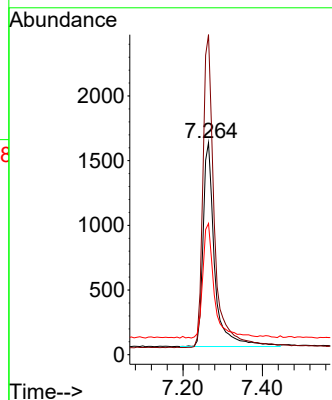


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

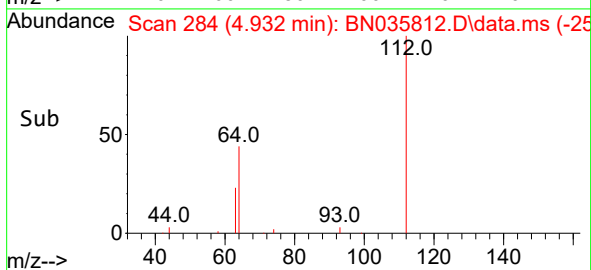
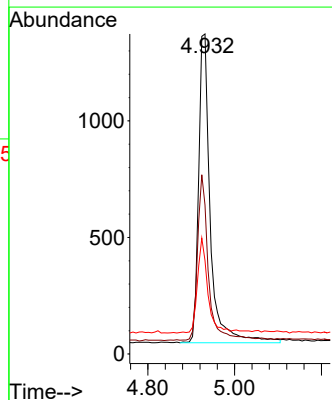
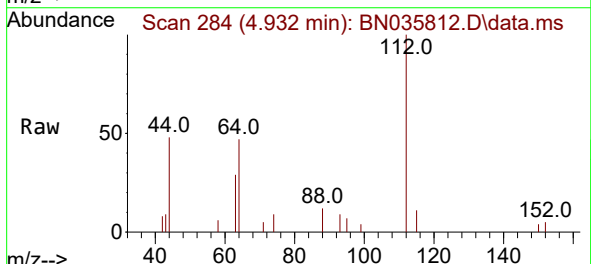


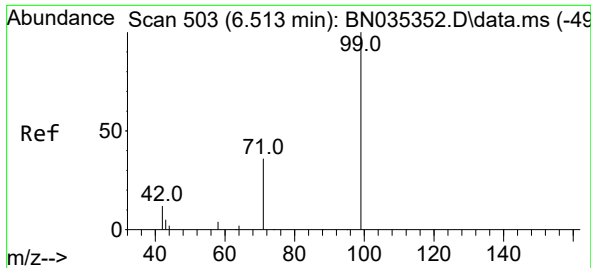
Tgt Ion:152 Resp: 3197
Ion Ratio Lower Upper
152 100
150 150.9 124.0 186.0
115 61.9 49.6 74.4



#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496
Ion Ratio Lower Upper
112 100
64 49.3 39.8 59.8
63 27.1 21.0 31.6

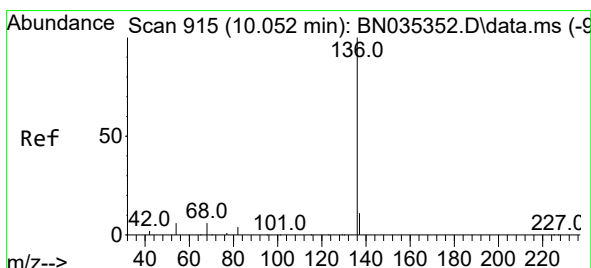
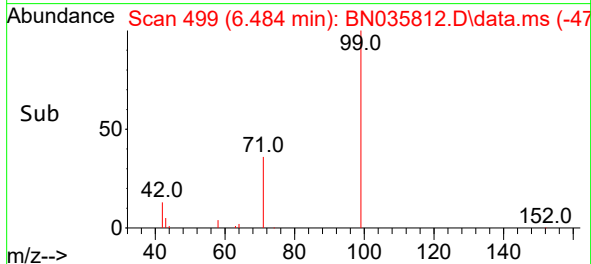
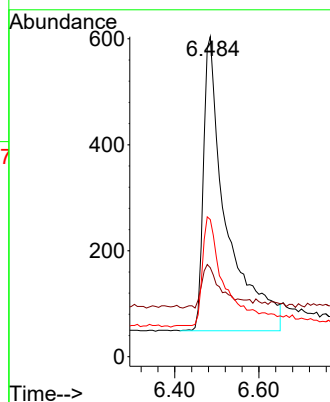
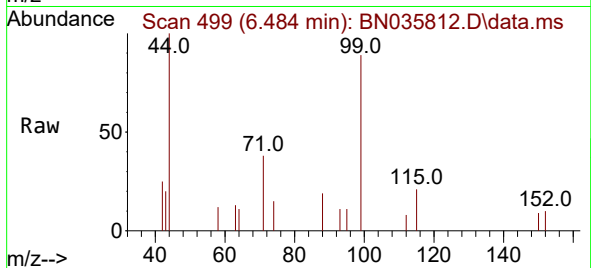




#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

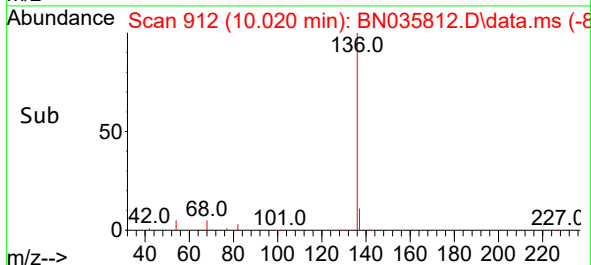
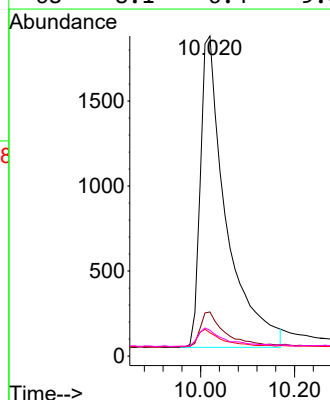
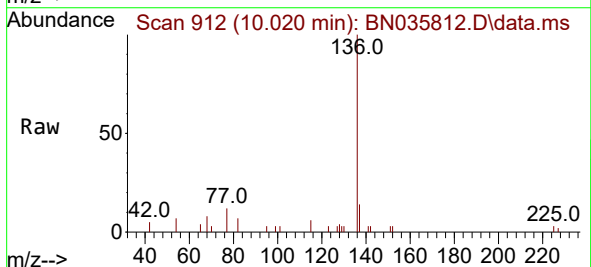
Instrument :
BNA_N
ClientSampleId :
PB165828BL

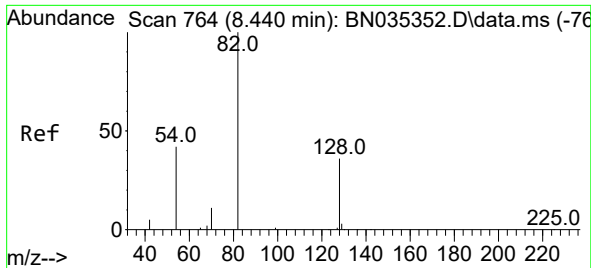
Tgt Ion:	99	Resp:	2096
Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	37.2	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:	136	Resp:	6952
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.2	15.2
54	7.3	6.1	9.1
68	8.1	6.4	9.6

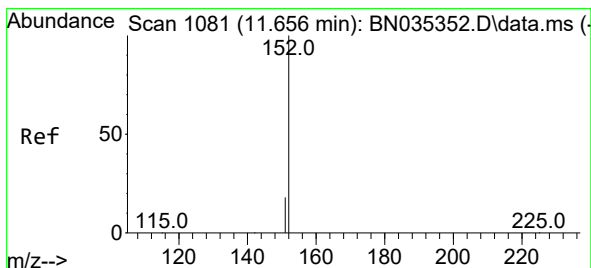
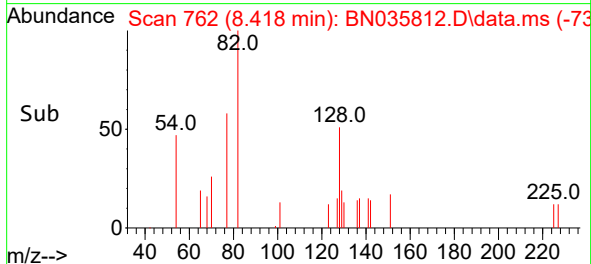
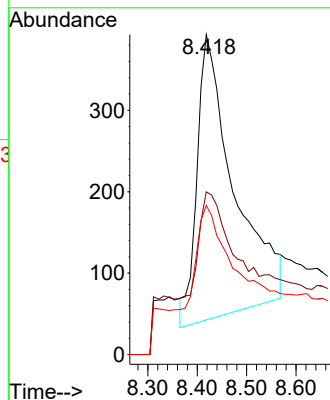
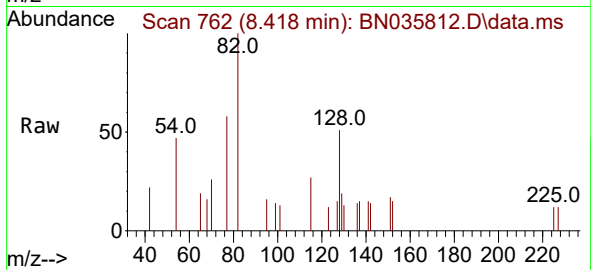




#8
 Nitrobenzene-d5
 Concen: 0.427 ng
 RT: 8.418 min Scan# 764
 Delta R.T. 0.010 min
 Lab File: BN035812.D
 Acq: 24 Dec 2024 09:35

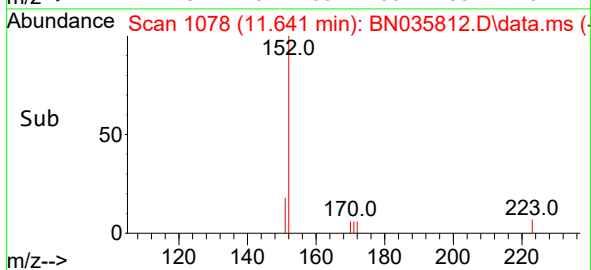
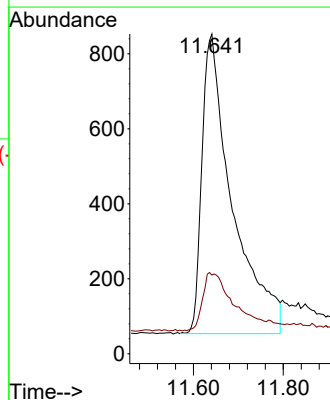
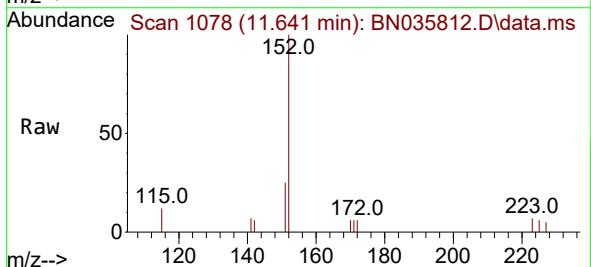
Instrument :
 BNA_N
 ClientSampleId :
 PB165828BL

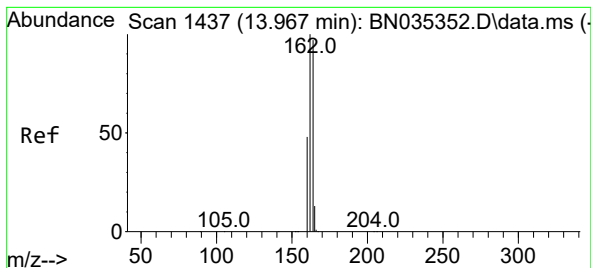
Tgt Ion: 82 Resp: 1815
 Ion Ratio Lower Upper
 82 100
 128 50.9 33.4 50.0#
 54 46.6 36.7 55.1



#11
 2-Methylnaphthalene-d10
 Concen: 0.344 ng
 RT: 11.641 min Scan# 1078
 Delta R.T. 0.020 min
 Lab File: BN035812.D
 Acq: 24 Dec 2024 09:35

Tgt Ion: 152 Resp: 3741
 Ion Ratio Lower Upper
 152 100
 151 20.1 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN035812.D

Acq: 24 Dec 2024 09:35

Instrument :

BNA_N

ClientSampleId :

PB165828BL

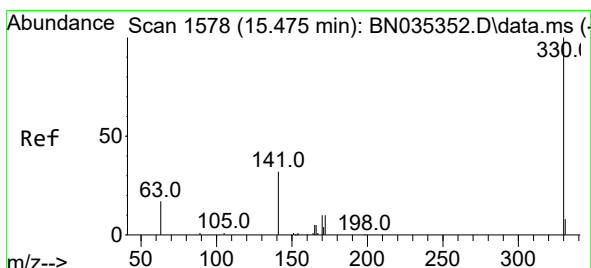
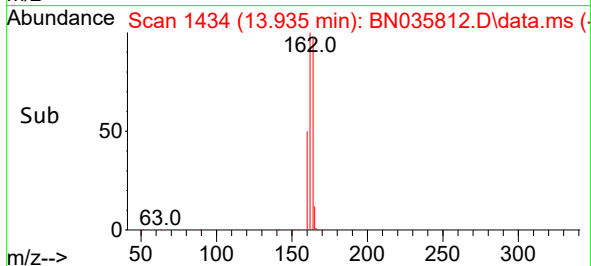
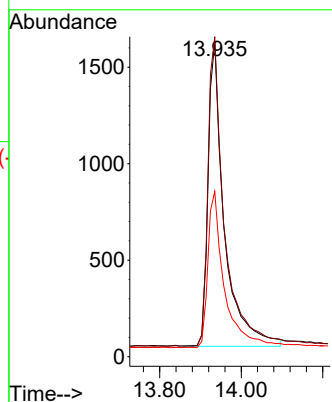
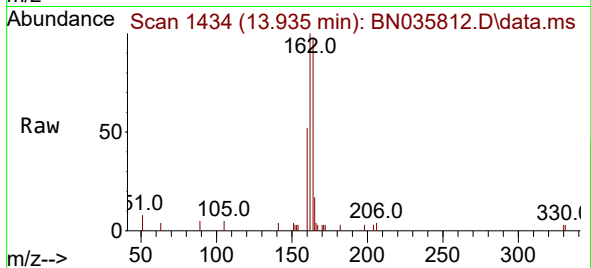
Tgt Ion:164 Resp: 4346

Ion Ratio Lower Upper

164 100

162 101.6 82.2 123.2

160 52.5 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.159 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.021 min

Lab File: BN035812.D

Acq: 24 Dec 2024 09:35

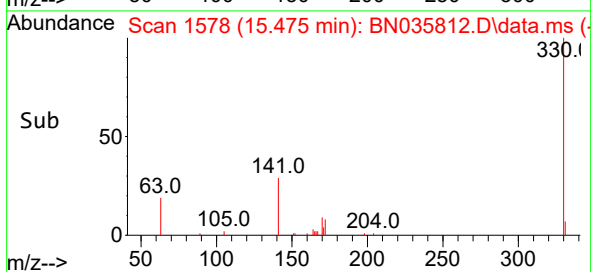
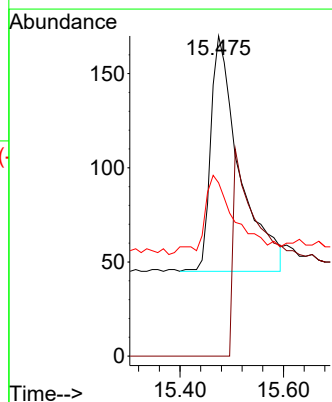
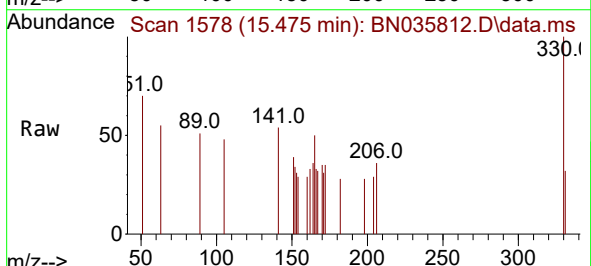
Tgt Ion:330 Resp: 490

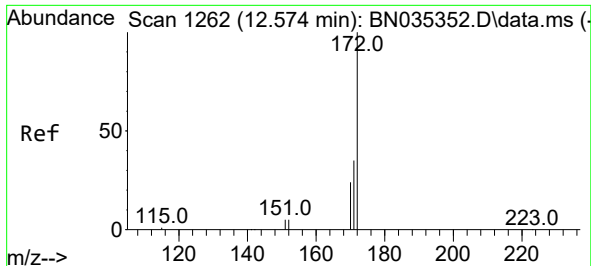
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.3 26.6 40.0

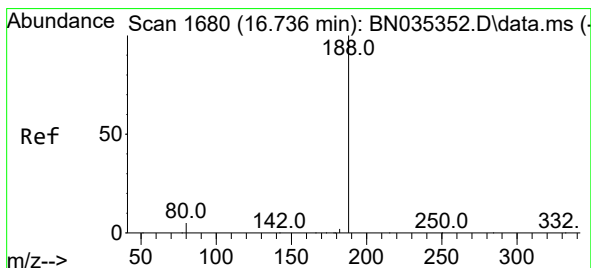
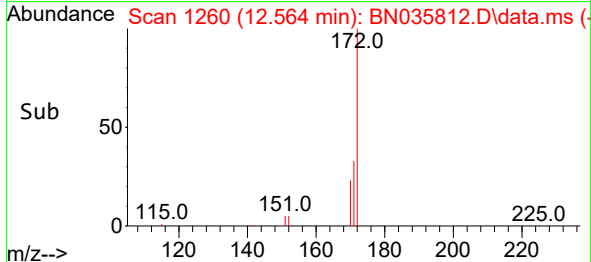
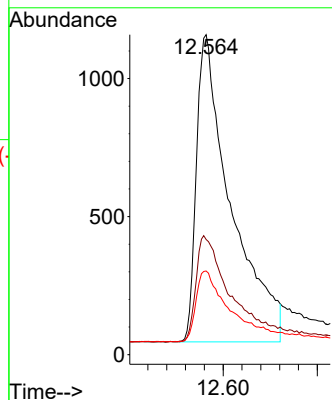
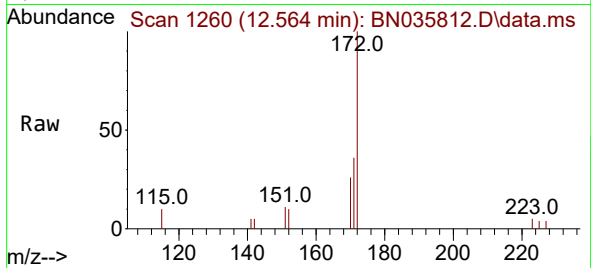




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 11
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

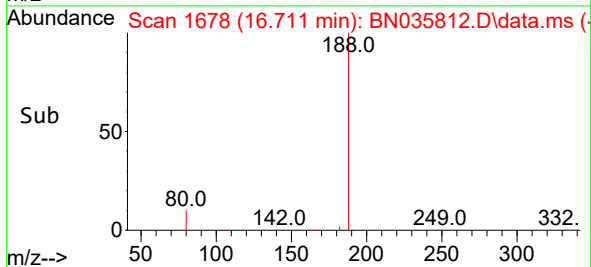
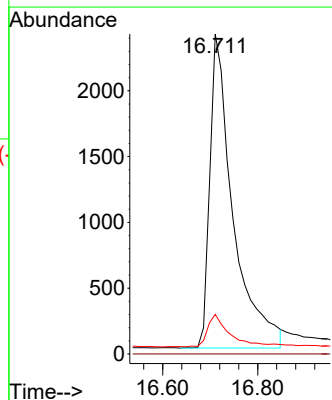
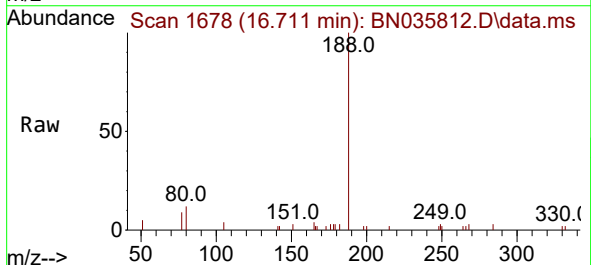
Instrument :
BNA_N
ClientSampleId :
PB165828BL

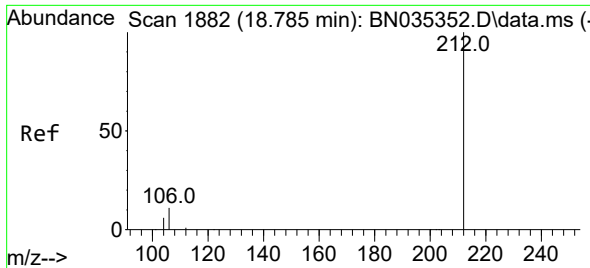
Tgt Ion:172 Resp: 5652
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 26.1 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.3 4.6 6.8#

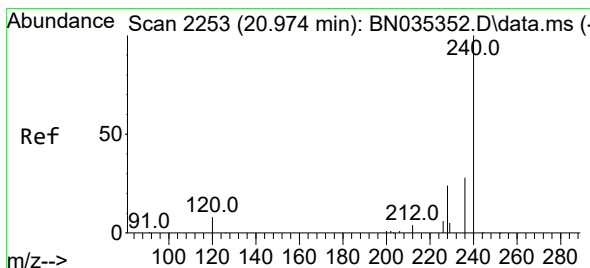
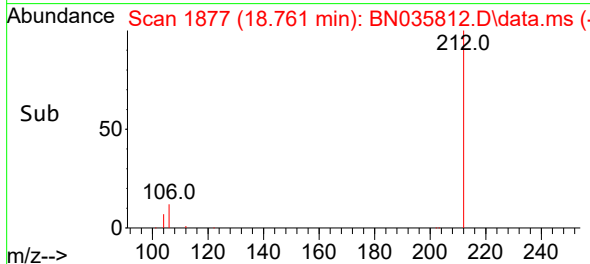
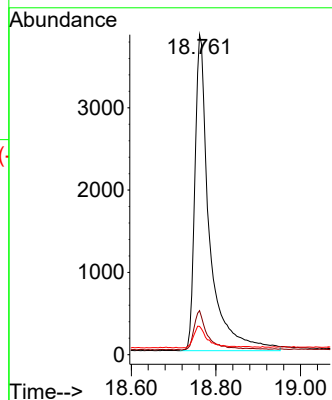
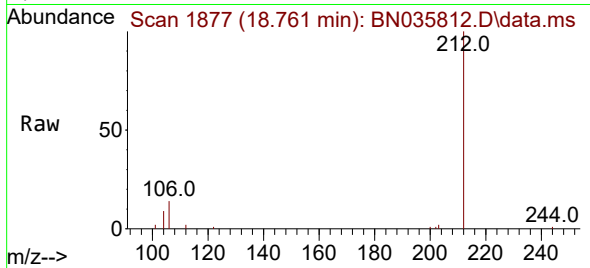




#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

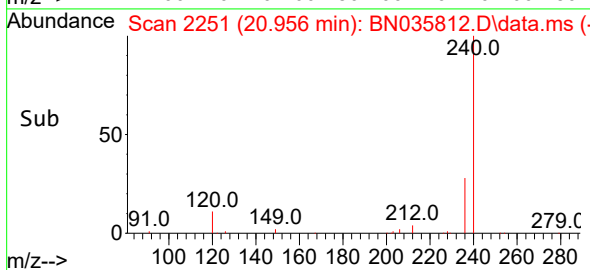
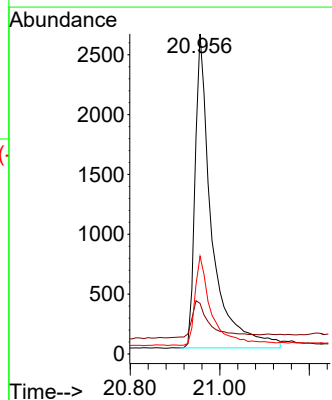
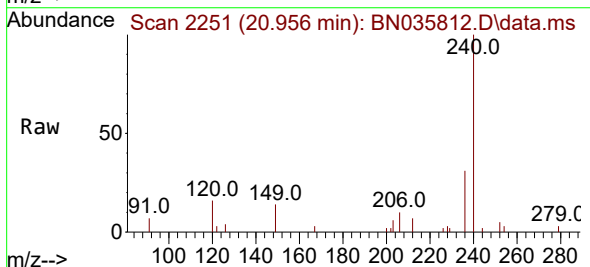
Instrument :
BNA_N
ClientSampleId :
PB165828BL

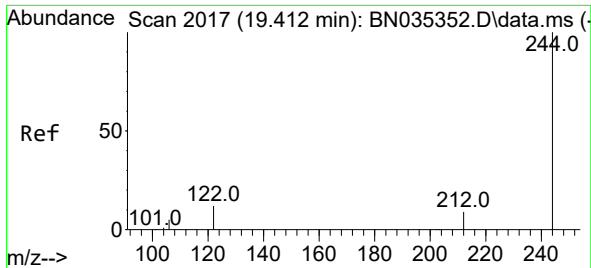
Tgt Ion:212 Resp: 9188
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.3 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756
Ion Ratio Lower Upper
240 100
120 15.8 7.9 11.9#
236 30.6 22.9 34.3

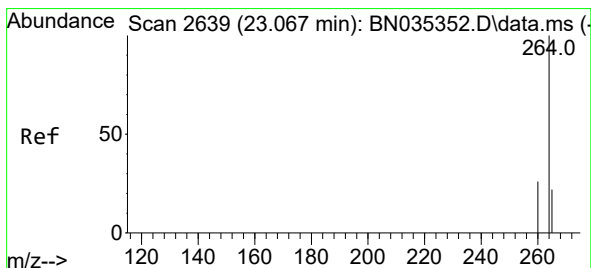
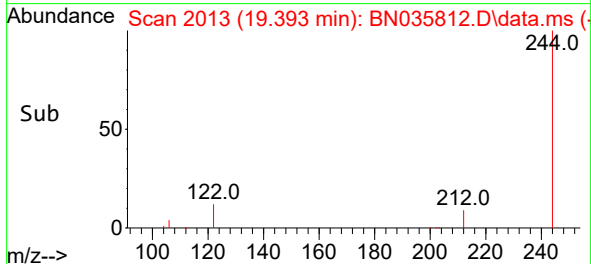
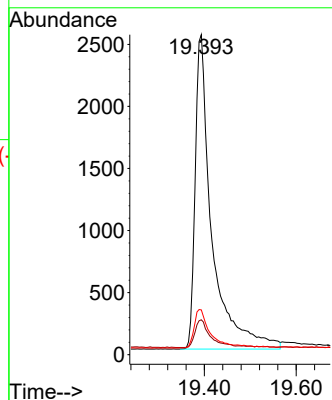
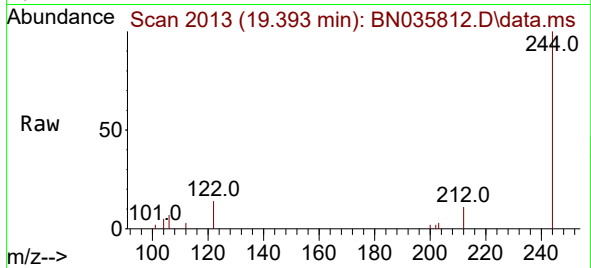




#31
 Terphenyl-d14
 Concen: 0.481 ng
 RT: 19.393 min Scan# 2017
 Delta R.T. 0.004 min
 Lab File: BN035812.D
 Acq: 24 Dec 2024 09:35

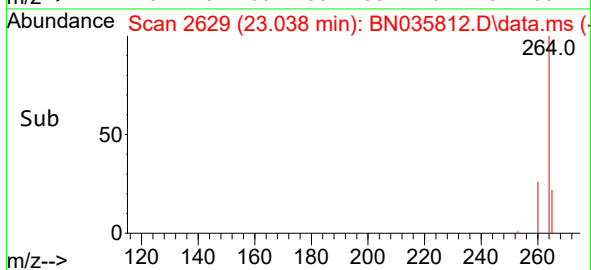
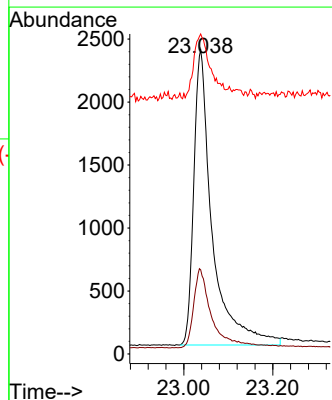
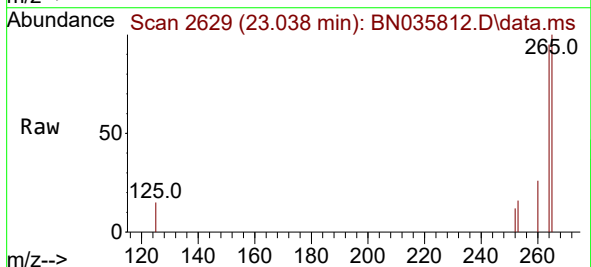
Instrument :
 BNA_N
 ClientSampleId :
 PB165828BL

Tgt Ion:244 Resp: 6413
 Ion Ratio Lower Upper
 244 100
 212 10.9 8.1 12.1
 122 14.0 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: BN035812.D
 Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747
 Ion Ratio Lower Upper
 264 100
 260 27.6 21.4 32.2
 265 105.1 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035815.D
 Acq On : 24 Dec 2024 11:21
 Operator : RC/JU
 Sample : P5376-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT150S1-20241218

Quant Time: Dec 24 23:17:07 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)

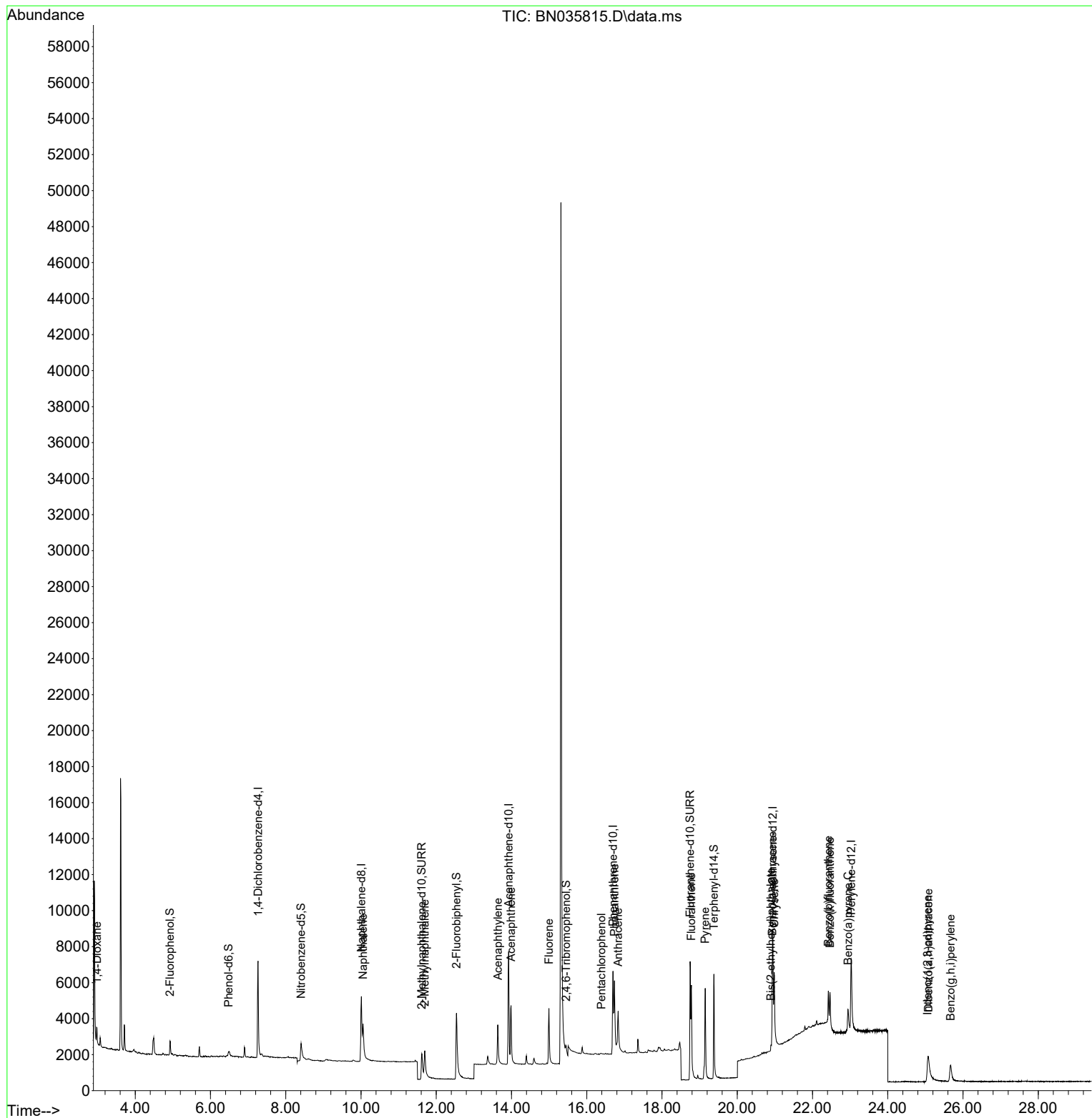
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3146	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7086	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4334	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8132	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6728	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6588	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	783	0.099	ng	-0.01
5) Phenol-d6	6.477	99	425	0.045	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1907	0.441	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3733	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	558	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6086	0.371	ng	0.00
27) Fluoranthene-d10	18.747	212	9081	0.394	ng	-0.01
31) Terphenyl-d14	19.379	244	7115	0.536	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.982	88	735	0.244	ng	91
9) Naphthalene	10.052	128	3064	0.164	ng	# 93
12) 2-Methylnaphthalene	11.697	142	1938	0.145	ng	# 95
16) Acenaphthylene	13.636	152	3133	0.172	ng	98
17) Acenaphthene	13.989	154	1954	0.162	ng	96
18) Fluorene	14.994	166	2543	0.147	ng	99
24) Pentachlorophenol	16.388	266	52	0.021	ng	96
25) Phenanthrene	16.736	178	4749	0.213	ng	99
26) Anthracene	16.835	178	3615	0.179	ng	99
28) Fluoranthene	18.780	202	5217	0.173	ng	100
30) Pyrene	19.147	202	5398	0.217	ng	99
32) Benzo(a)anthracene	20.929	228	3164	0.134	ng	96
33) Chrysene	20.983	228	4527	0.187	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.038	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.058	276	2949	0.115	ng	96
37) Benzo(b)fluoranthene	22.421	252	4545	0.189	ng	# 72
38) Benzo(k)fluoranthene	22.465	252	3529	0.149	ng	# 71
39) Benzo(a)pyrene	22.945	252	2673	0.135	ng	# 51
40) Dibenzo(a,h)anthracene	25.082	278	2170	0.107	ng	# 55
41) Benzo(g,h,i)perylene	25.672	276	2390	0.113	ng	# 83

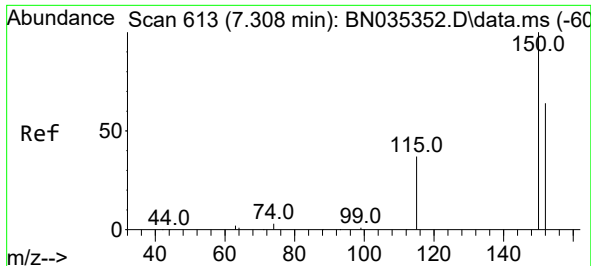
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

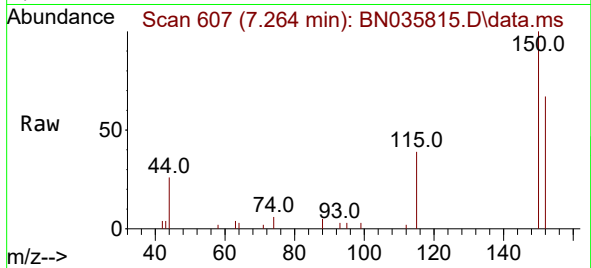
Quant Time: Dec 24 23:17:07 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



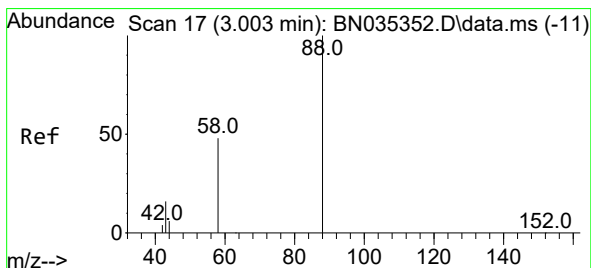
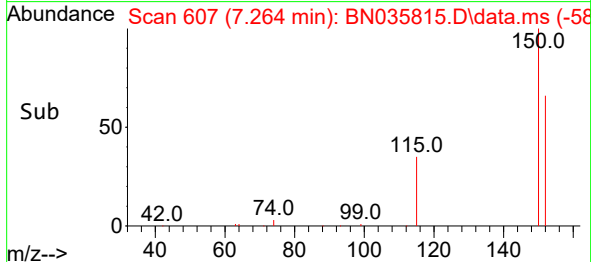
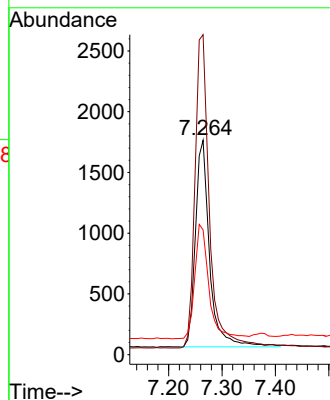


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035815.D
 Acq: 24 Dec 2024 11:21

Instrument :
 BNA_N
 ClientSampleId :
 TT150S1-20241218

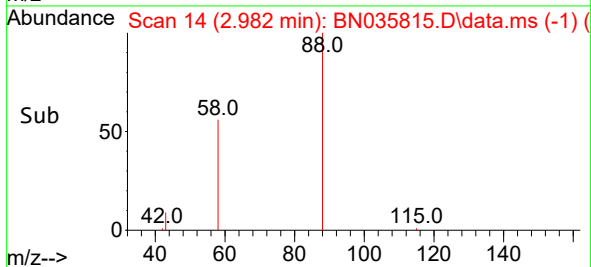
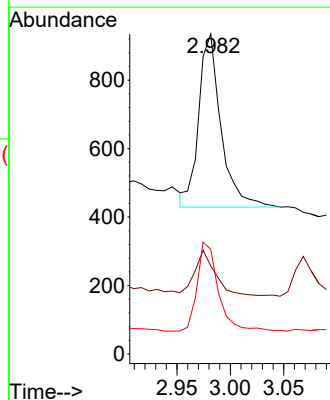
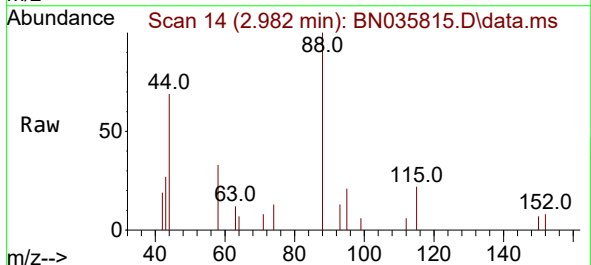


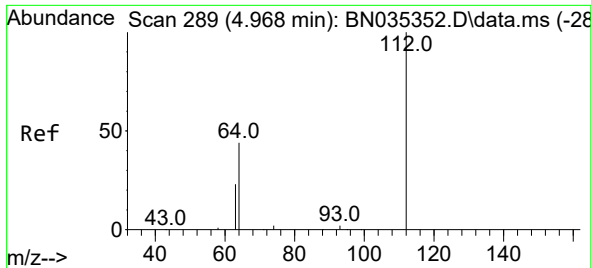
Tgt Ion:152 Resp: 3146
 Ion Ratio Lower Upper
 152 100
 150 149.2 124.0 186.0
 115 58.2 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.244 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035815.D
 Acq: 24 Dec 2024 11:21

Tgt Ion: 88 Resp: 735
 Ion Ratio Lower Upper
 88 100
 43 23.5 17.2 25.8
 58 48.2 44.5 66.7

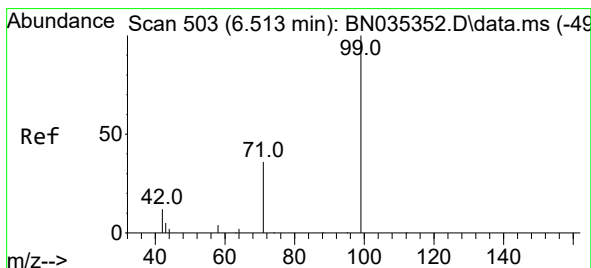
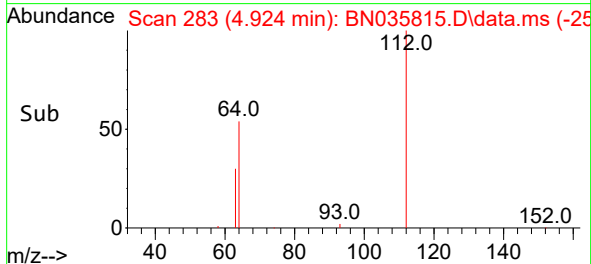
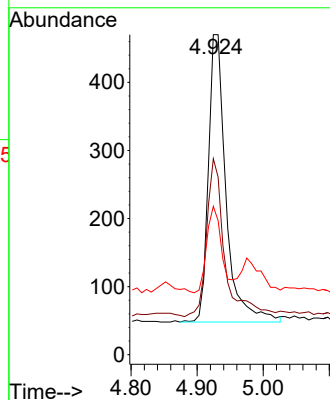
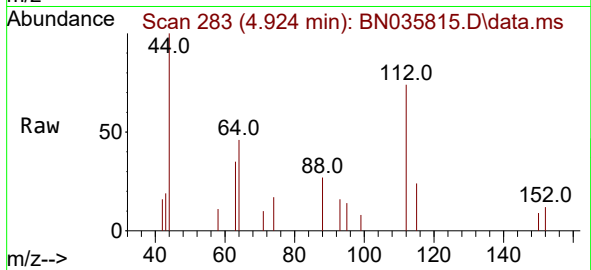




#4
2-Fluorophenol
Concen: 0.099 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

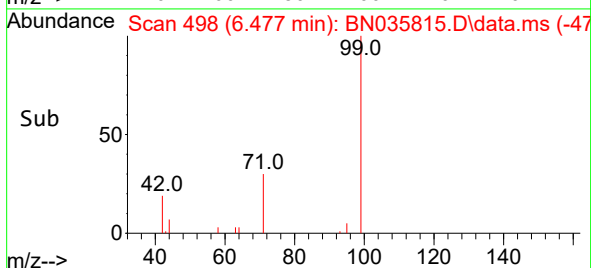
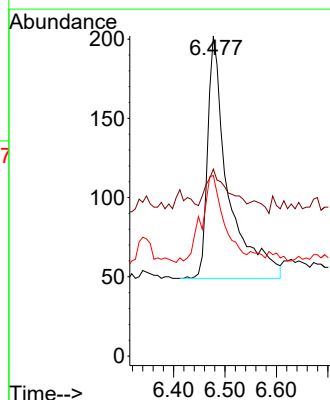
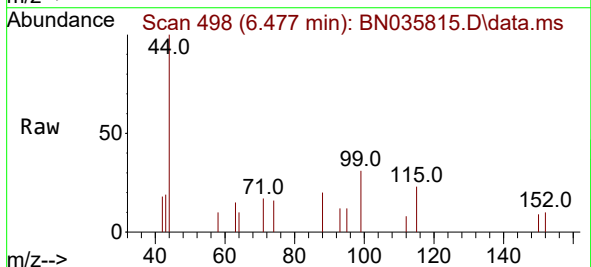
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

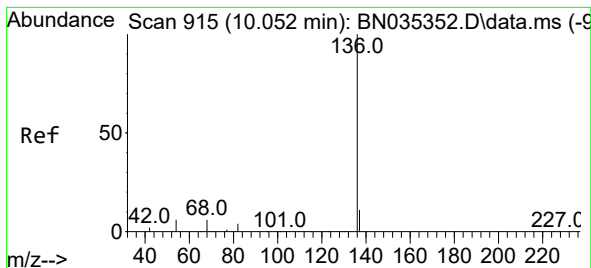
Tgt Ion:112 Resp: 783
Ion Ratio Lower Upper
112 100
64 55.9 39.8 59.8
63 25.3 21.0 31.6



#5
Phenol-d6
Concen: 0.045 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 99 Resp: 425
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.2
71 40.0 29.3 43.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.009 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

Tgt Ion:136 Resp: 7086

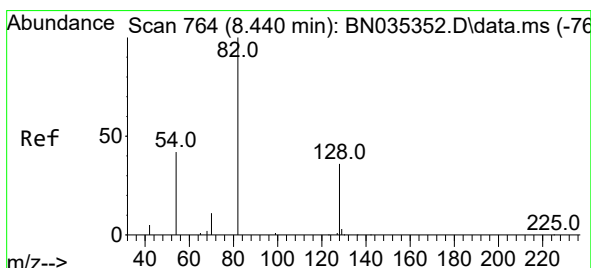
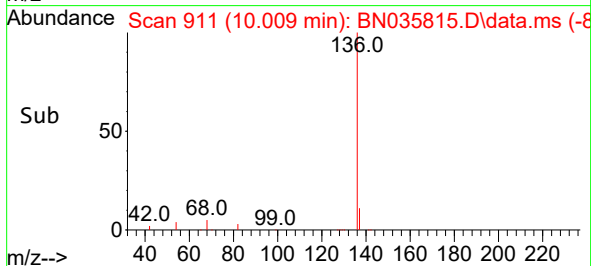
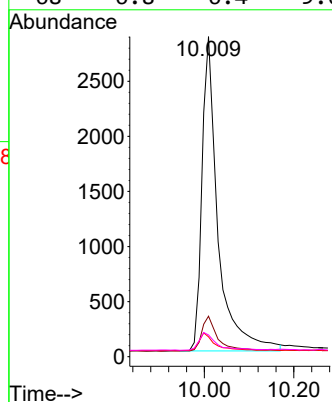
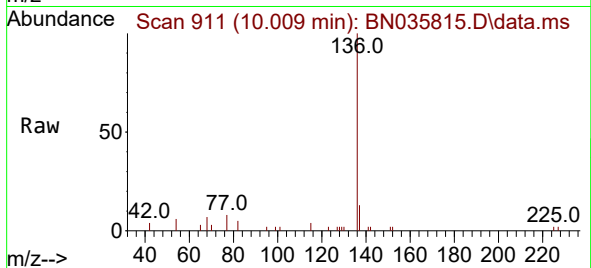
Ion Ratio Lower Upper

136 100

137 12.7 10.2 15.2

54 6.2 6.1 9.1

68 6.8 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.441 ng

RT: 8.408 min Scan# 761

Delta R.T. -0.000 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

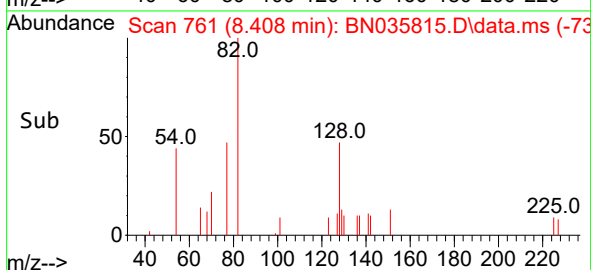
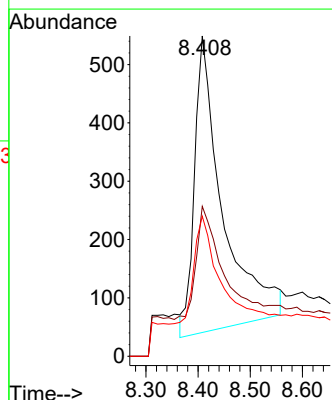
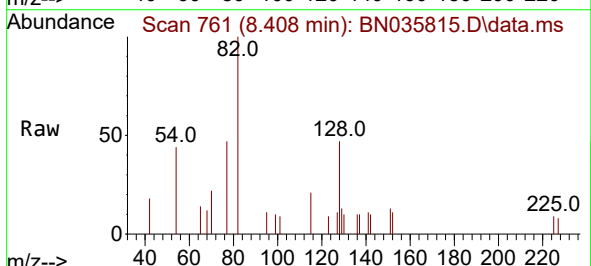
Tgt Ion: 82 Resp: 1907

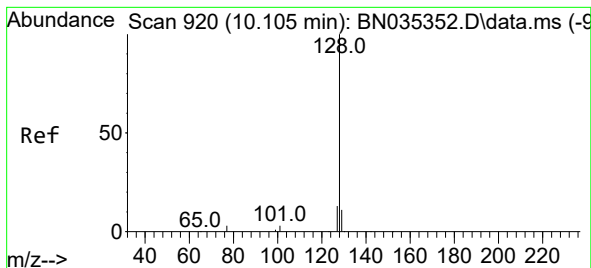
Ion Ratio Lower Upper

82 100

128 46.8 33.4 50.0

54 43.7 36.7 55.1





#9

Naphthalene

Concen: 0.164 ng

RT: 10.052 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

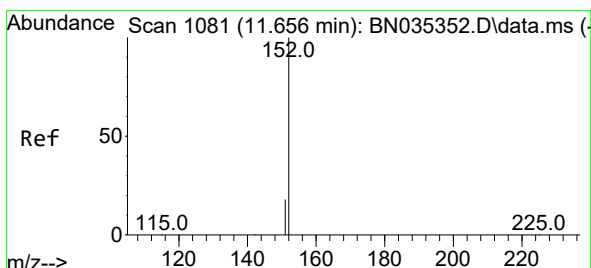
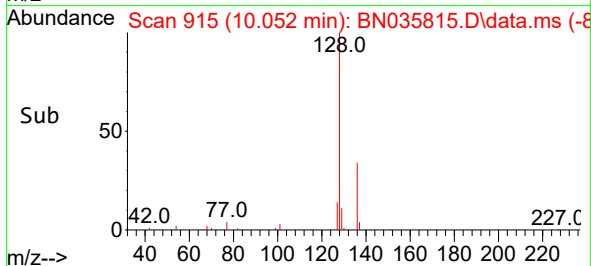
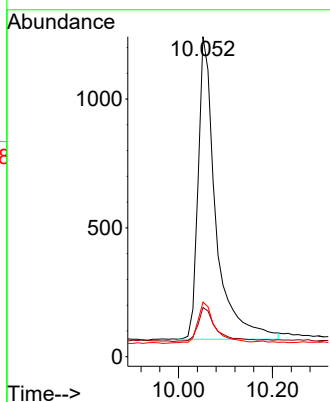
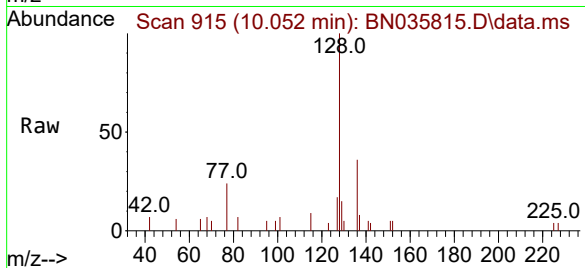
Tgt Ion:128 Resp: 3064

Ion Ratio Lower Upper

128 100

129 15.4 9.8 14.6#

127 17.1 11.4 17.2



#11

2-Methylnaphthalene-d10

Concen: 0.337 ng

RT: 11.616 min Scan# 1073

Delta R.T. -0.005 min

Lab File: BN035815.D

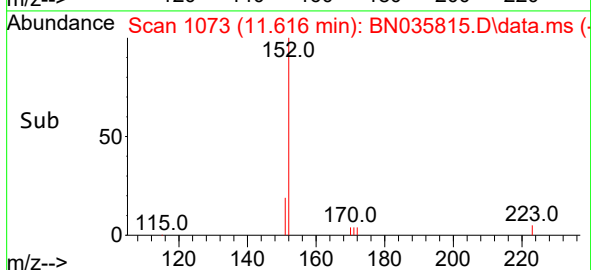
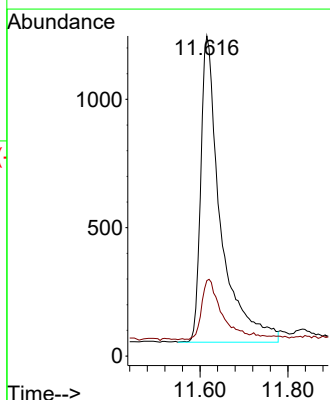
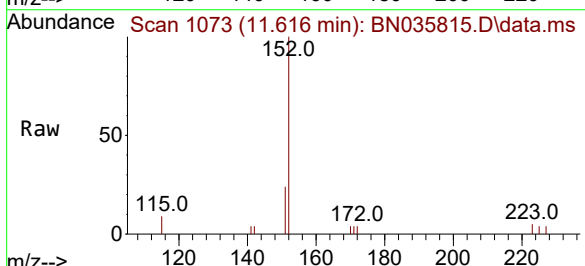
Acq: 24 Dec 2024 11:21

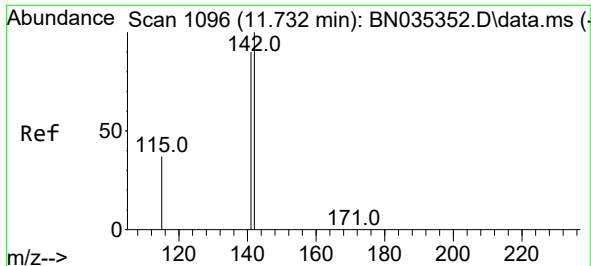
Tgt Ion:152 Resp: 3733

Ion Ratio Lower Upper

152 100

151 19.6 16.6 25.0

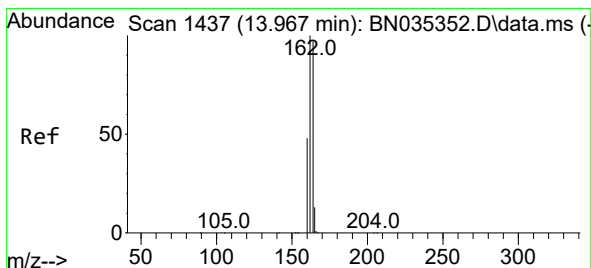
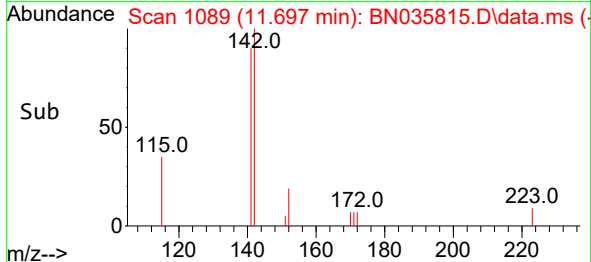
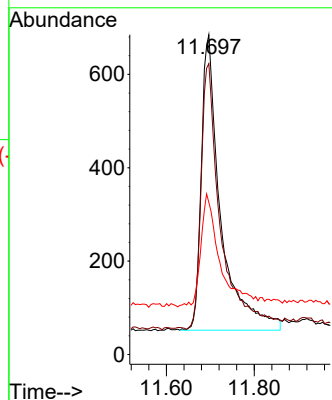
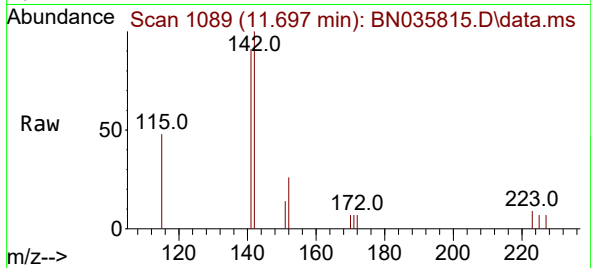




#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 11.697 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

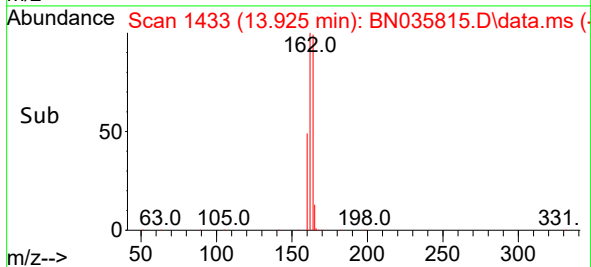
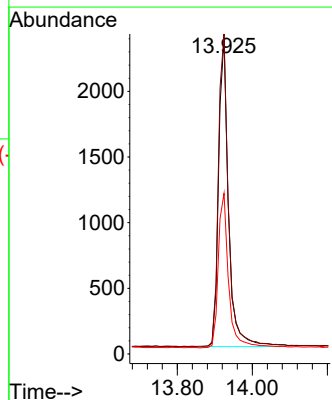
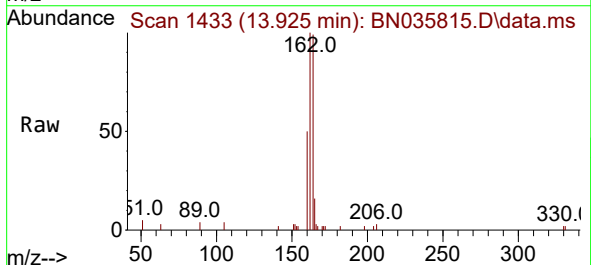
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

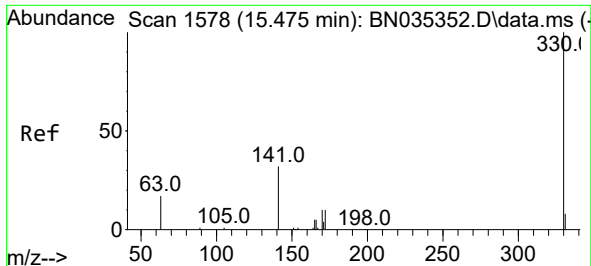
Tgt Ion:142 Resp: 1938
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 47.6 31.4 47.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

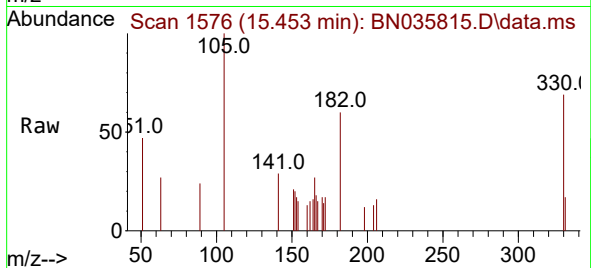
Tgt Ion:164 Resp: 4334
Ion Ratio Lower Upper
164 100
162 101.3 82.2 123.2
160 50.9 40.1 60.1



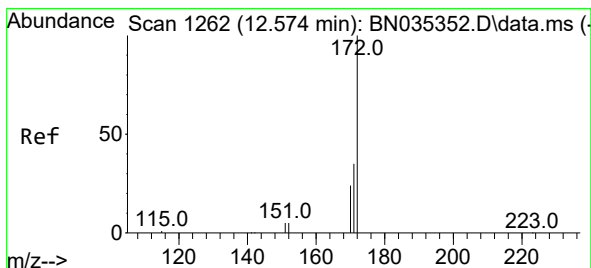
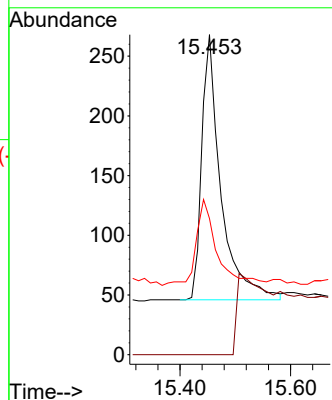
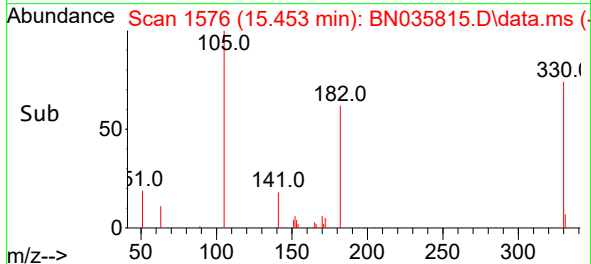


#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

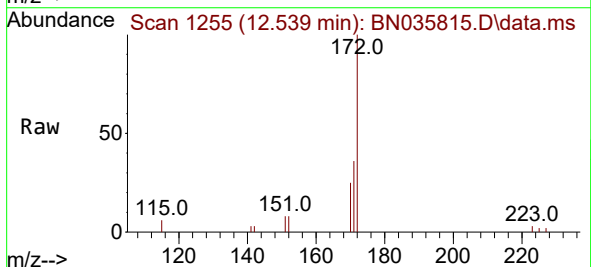
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218



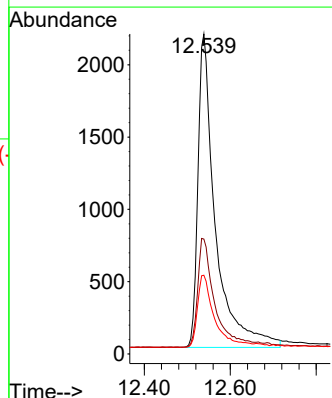
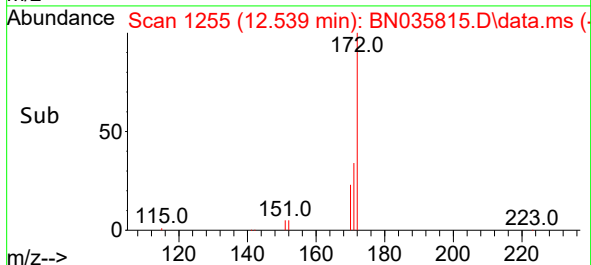
Tgt Ion:330 Resp: 558
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 26.6 40.0

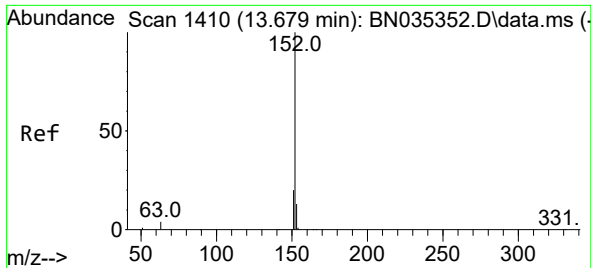


#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21



Tgt Ion:172 Resp: 6086
Ion Ratio Lower Upper
172 100
171 35.9 29.0 43.4
170 24.6 19.8 29.8

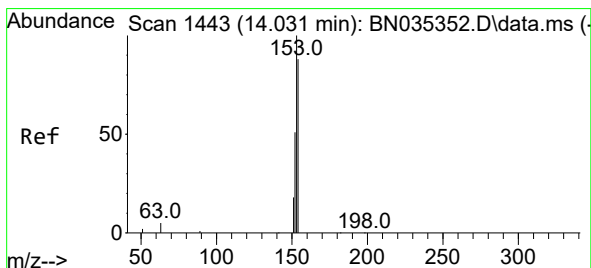
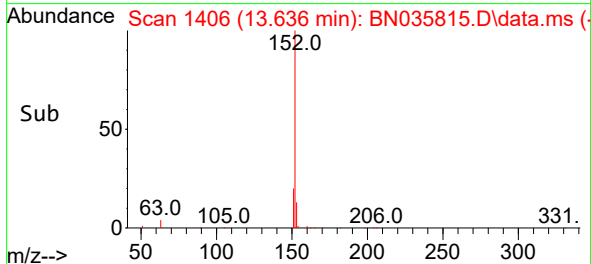
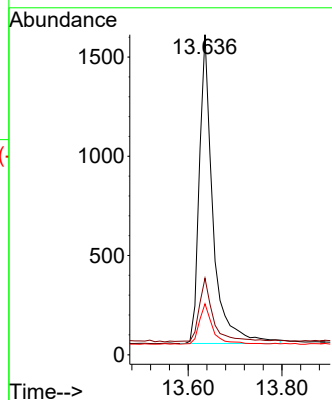
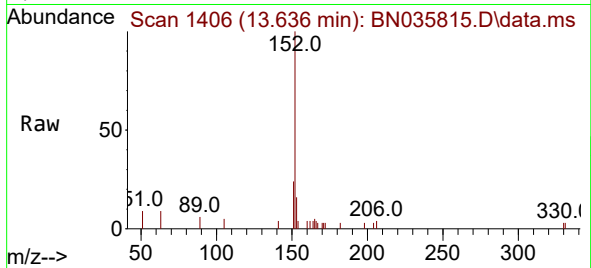




#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

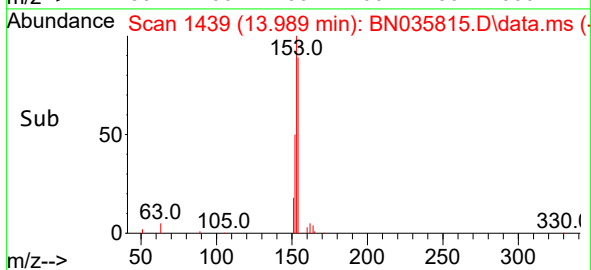
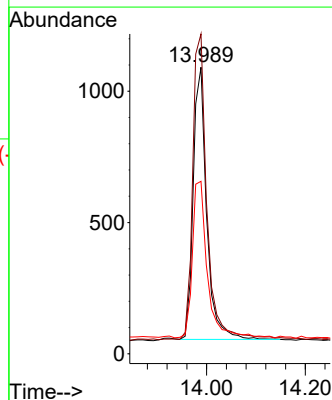
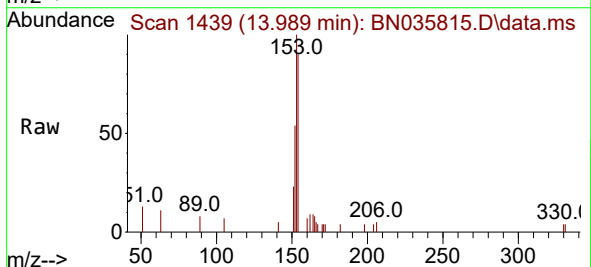
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

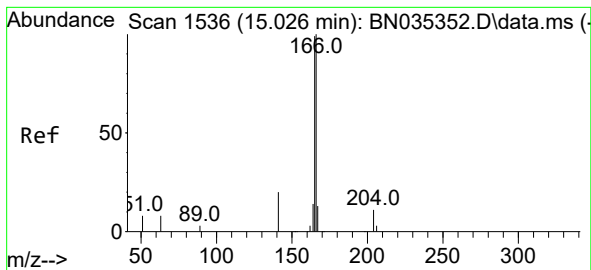
Tgt Ion:152 Resp: 3133
Ion Ratio Lower Upper
152 100
151 21.5 16.2 24.2
153 12.7 10.4 15.6



#17
Acenaphthene
Concen: 0.162 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:154 Resp: 1954
Ion Ratio Lower Upper
154 100
153 119.7 92.6 139.0
152 64.0 49.0 73.6





#18

Fluorene

Concen: 0.147 ng

RT: 14.994 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

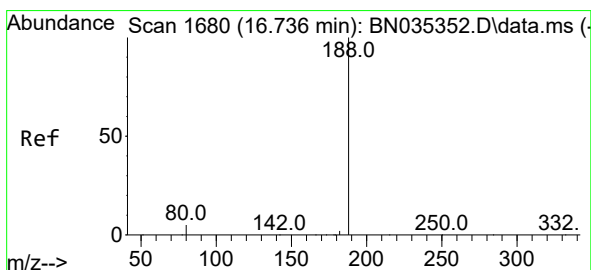
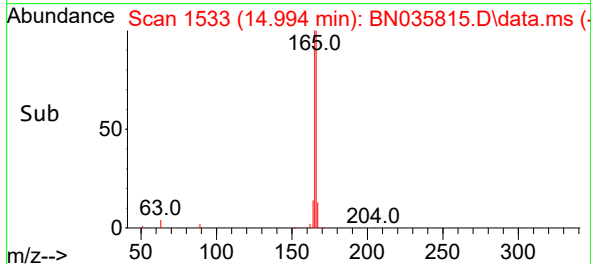
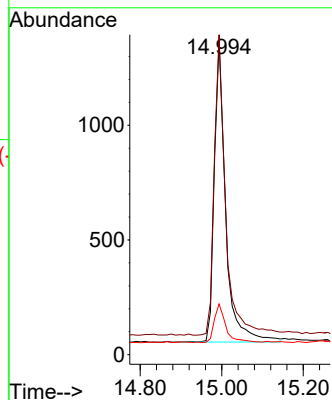
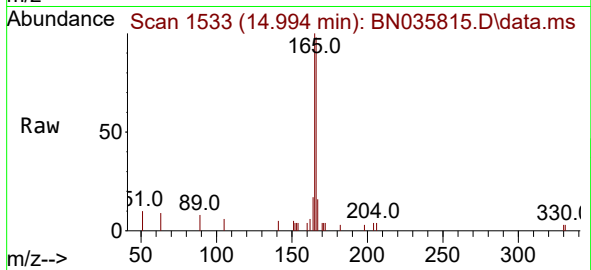
Tgt Ion:166 Resp: 2543

Ion Ratio Lower Upper

166 100

165 100.0 79.7 119.5

167 12.9 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: BN035815.D

Acq: 24 Dec 2024 11:21

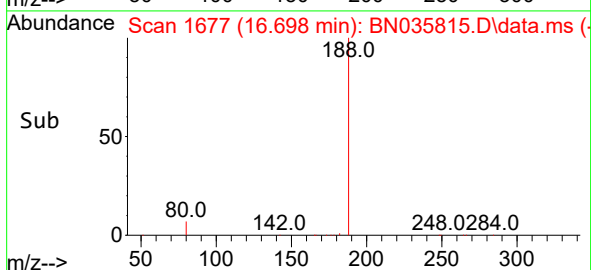
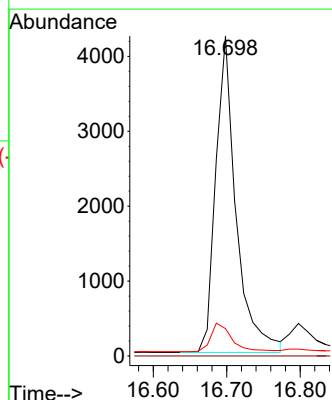
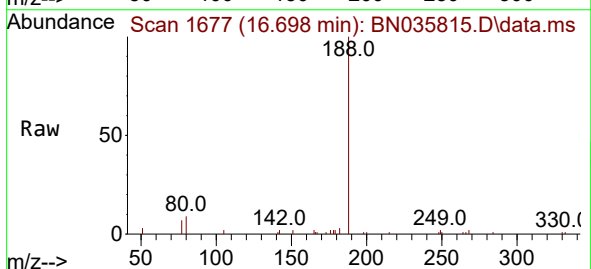
Tgt Ion:188 Resp: 8132

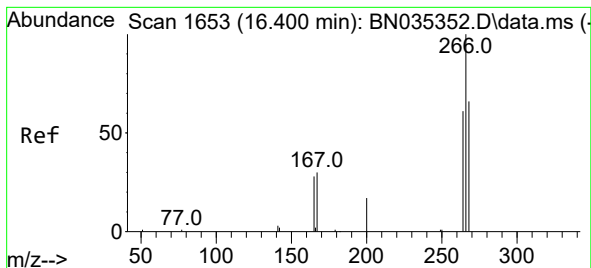
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 4.6 6.8#





#24

Pentachlorophenol

Concen: 0.021 ng

RT: 16.388 min Scan# 1652

Delta R.T. 0.012 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

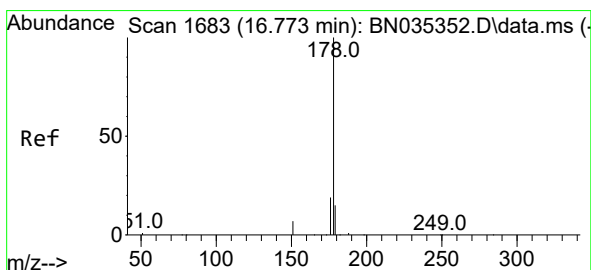
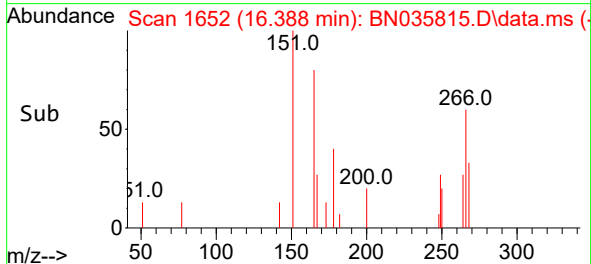
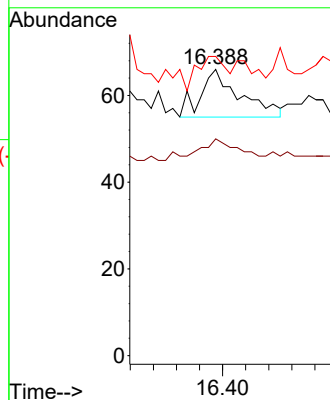
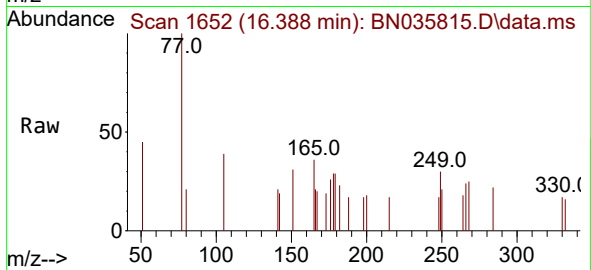
Tgt Ion:266 Resp: 52

Ion Ratio Lower Upper

266 100

264 48.1 42.3 63.5

268 53.8 43.3 64.9



#25

Phenanthrene

Concen: 0.213 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.012 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

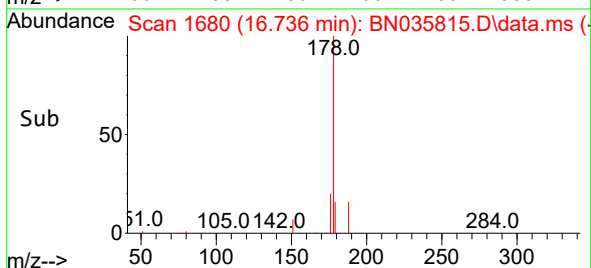
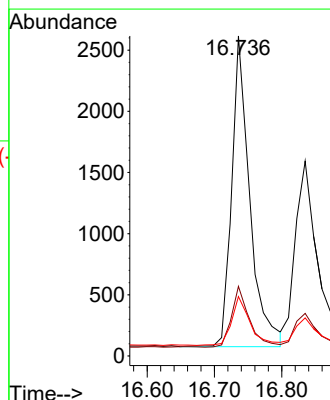
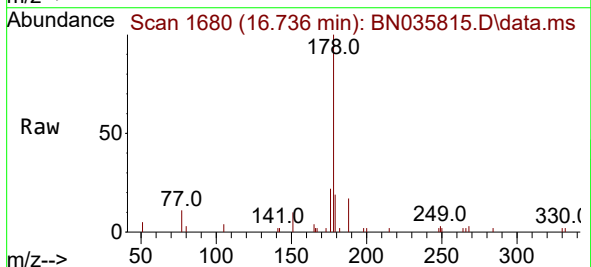
Tgt Ion:178 Resp: 4749

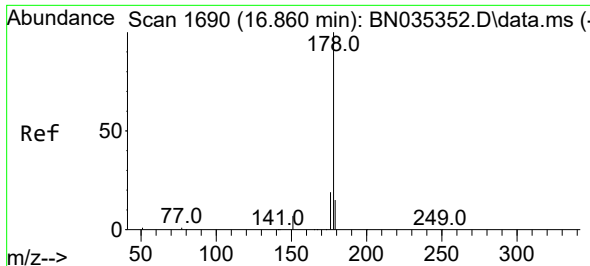
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

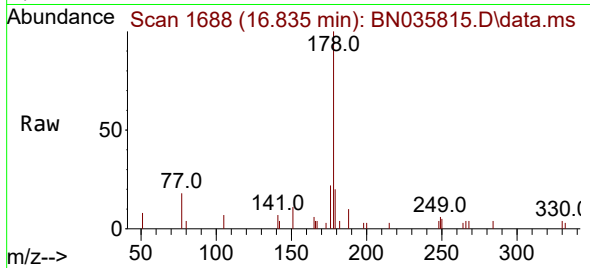
179 16.1 12.3 18.5



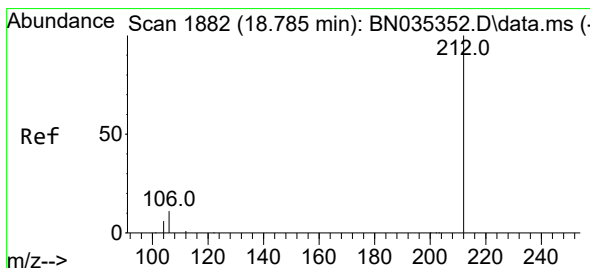
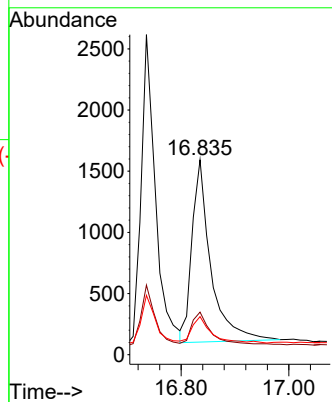
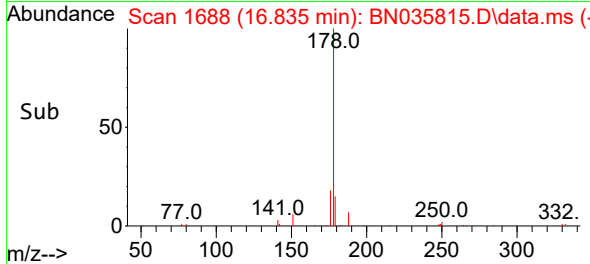


#26
 Anthracene
 Concen: 0.179 ng
 RT: 16.835 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: BN035815.D
 Acq: 24 Dec 2024 11:21

Instrument :
 BNA_N
 ClientSampleId :
 TT150S1-20241218

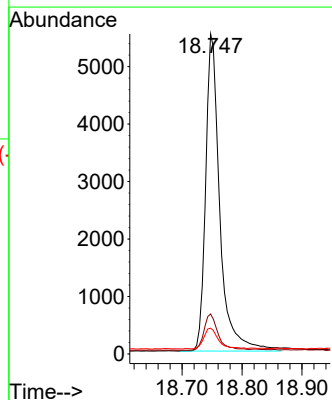
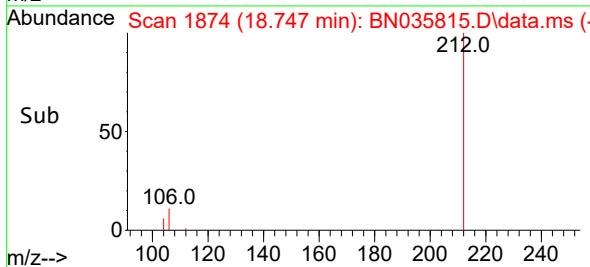
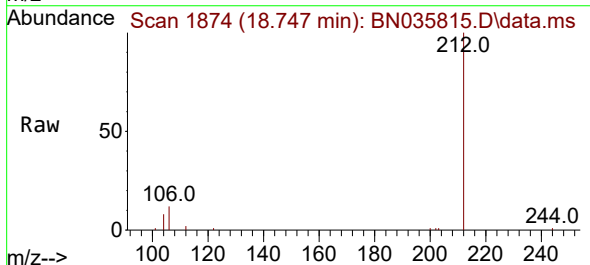


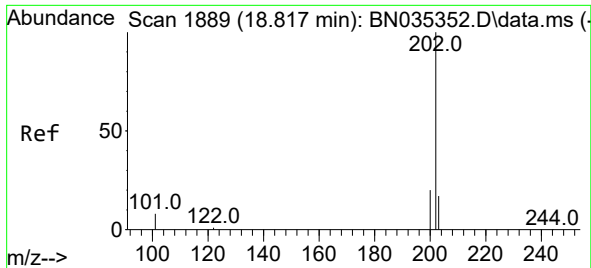
Tgt Ion:178 Resp: 3615
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.0 22.6
 179 15.4 12.6 18.8



#27
 Fluoranthene-d10
 Concen: 0.394 ng
 RT: 18.747 min Scan# 1874
 Delta R.T. -0.014 min
 Lab File: BN035815.D
 Acq: 24 Dec 2024 11:21

Tgt Ion:212 Resp: 9081
 Ion Ratio Lower Upper
 212 100
 106 11.4 9.2 13.8
 104 6.7 5.3 7.9

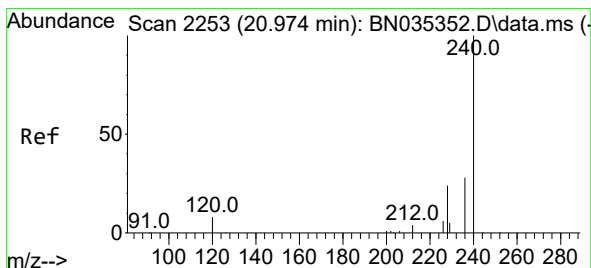
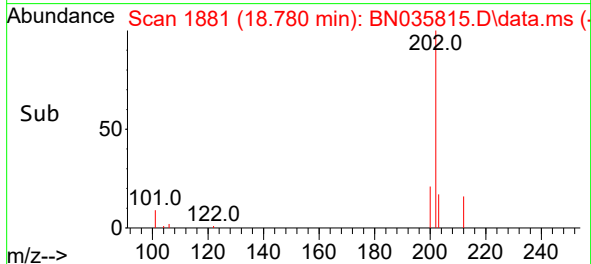
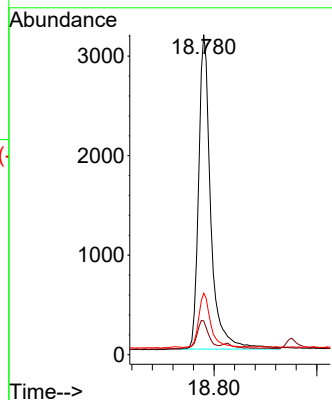
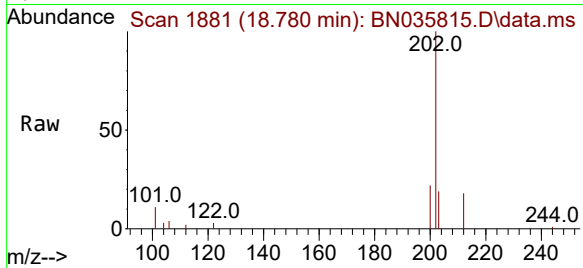




#28
Fluoranthene
Concen: 0.173 ng
RT: 18.780 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

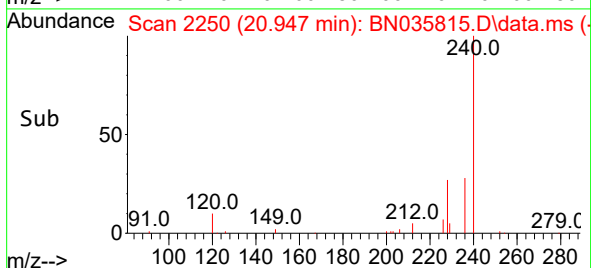
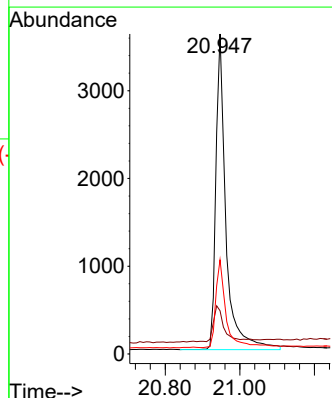
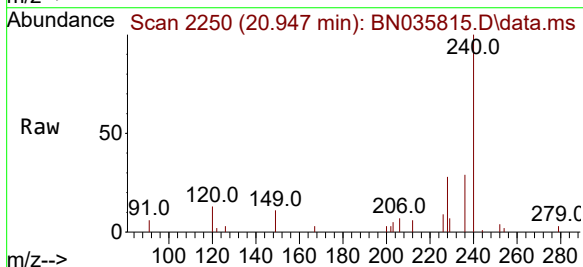
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

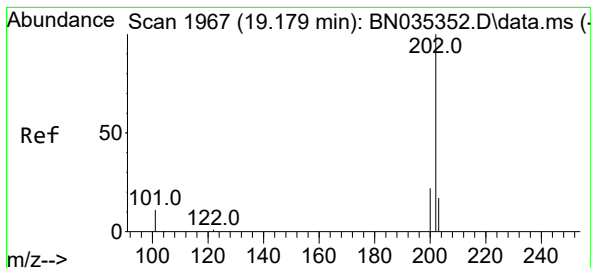
Tgt Ion:202 Resp: 5217
Ion Ratio Lower Upper
202 100
101 8.8 7.4 11.0
203 17.1 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:240 Resp: 6728
Ion Ratio Lower Upper
240 100
120 13.5 7.9 11.9#
236 29.4 22.9 34.3





#30

Pyrene

Concen: 0.217 ng

RT: 19.147 min Scan# 1967

Delta R.T. -0.014 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

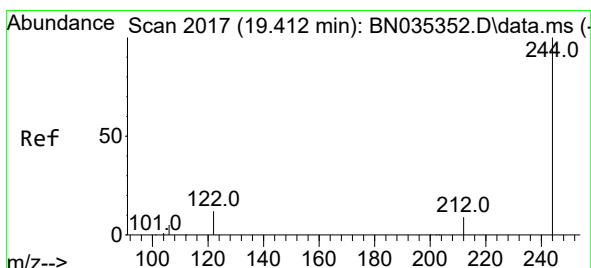
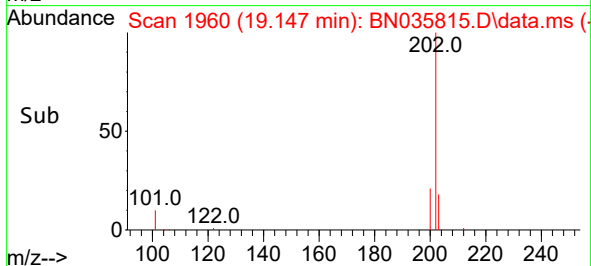
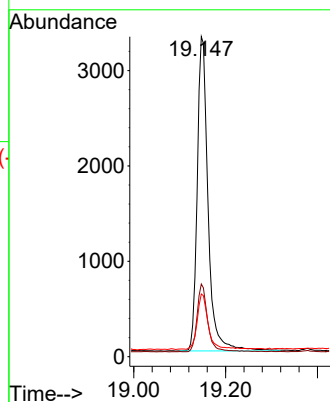
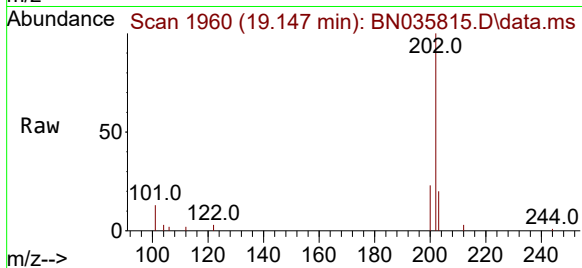
Tgt Ion:202 Resp: 5398

Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 18.3 14.3 21.5



#31

Terphenyl-d14

Concen: 0.536 ng

RT: 19.379 min Scan# 2010

Delta R.T. -0.009 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

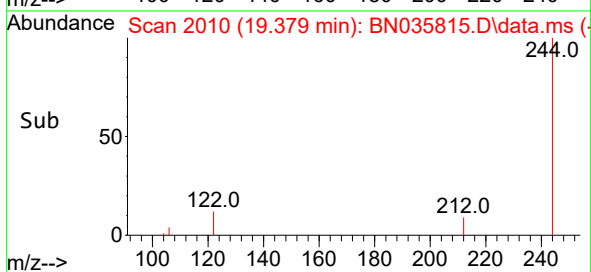
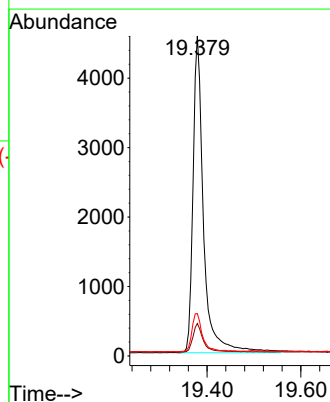
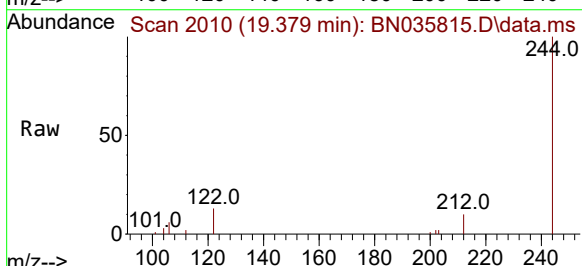
Tgt Ion:244 Resp: 7115

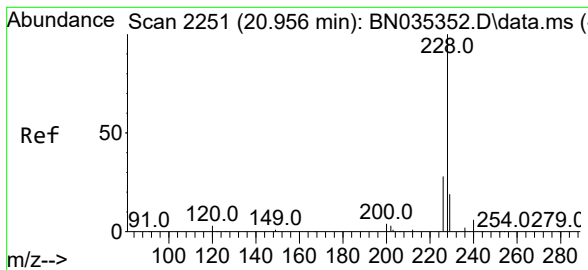
Ion Ratio Lower Upper

244 100

212 10.1 8.1 12.1

122 13.2 10.3 15.5





#32

Benzo(a)anthracene

Concen: 0.134 ng

RT: 20.929 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

Instrument :

BNA_N

ClientSampleId :

TT150S1-20241218

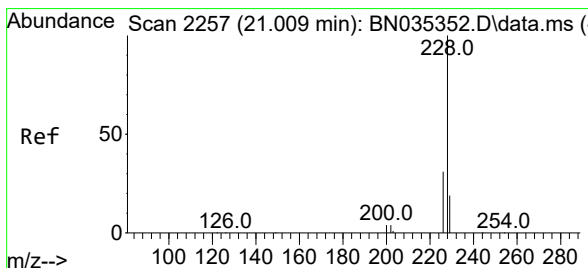
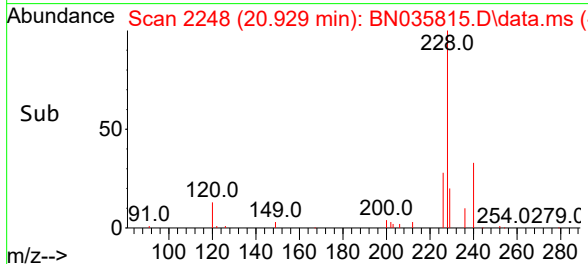
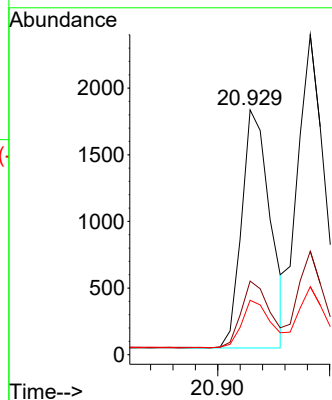
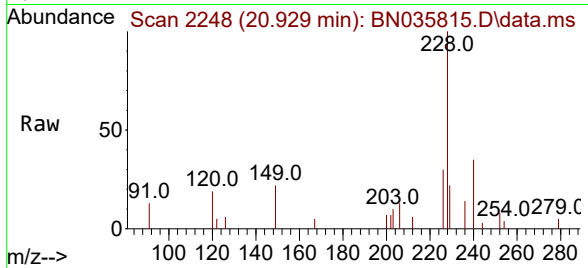
Tgt Ion:228 Resp: 3164

Ion Ratio Lower Upper

228 100

226 30.0 22.5 33.7

229 22.2 15.8 23.8



#33

Chrysene

Concen: 0.187 ng

RT: 20.983 min Scan# 2254

Delta R.T. -0.009 min

Lab File: BN035815.D

Acq: 24 Dec 2024 11:21

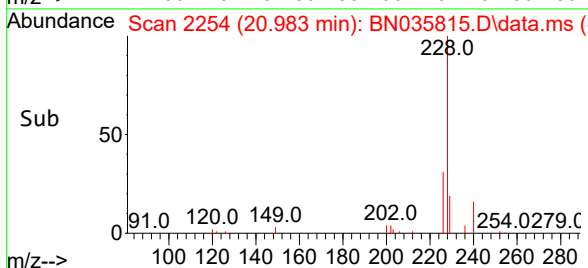
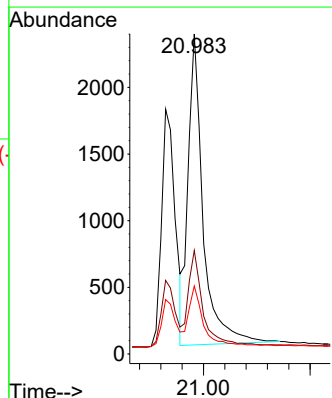
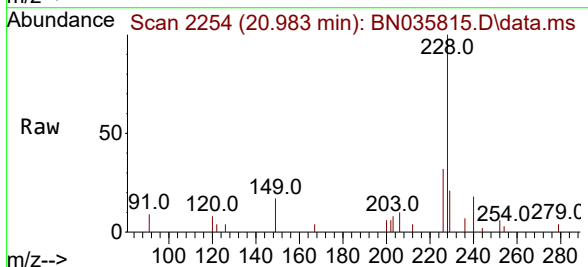
Tgt Ion:228 Resp: 4527

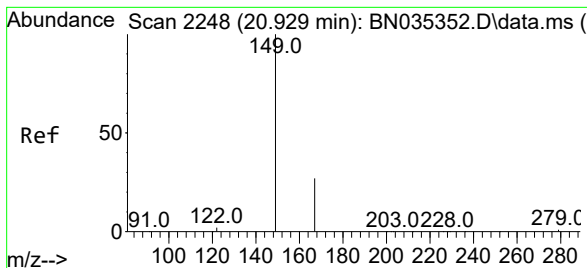
Ion Ratio Lower Upper

228 100

226 32.4 24.6 37.0

229 21.2 15.9 23.9

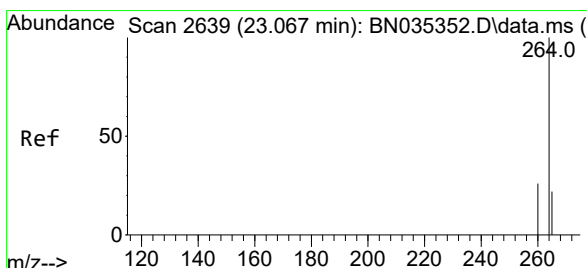
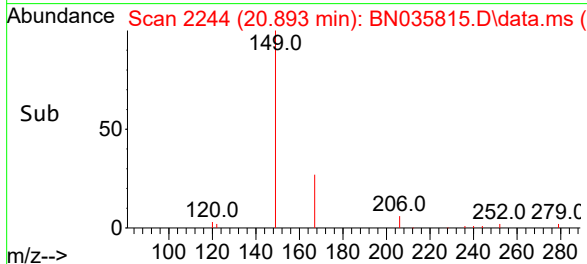
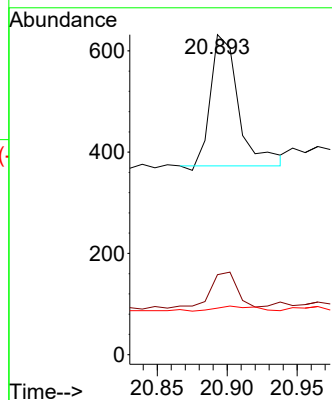
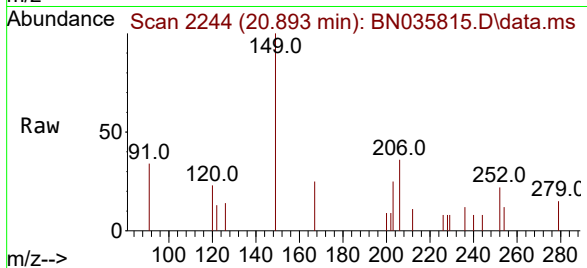




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.038 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

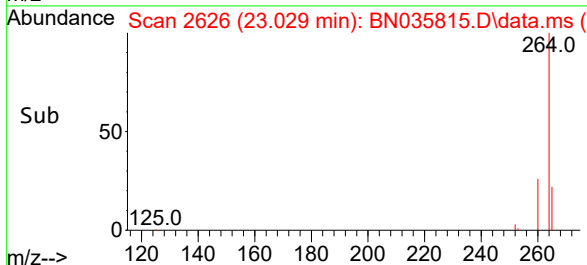
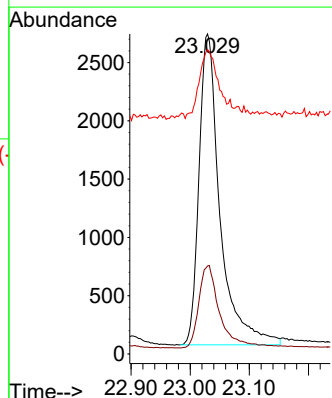
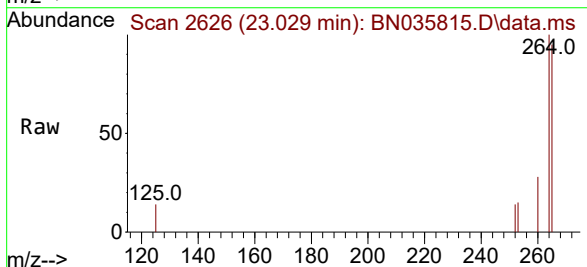
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

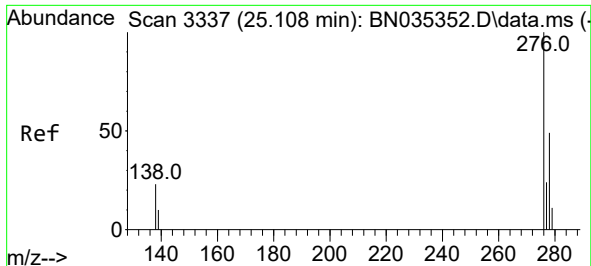
Tgt Ion:149 Resp: 357
Ion Ratio Lower Upper
149 100
167 26.9 22.2 33.4
279 4.5 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:264 Resp: 6588
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 95.1 40.2 60.4#

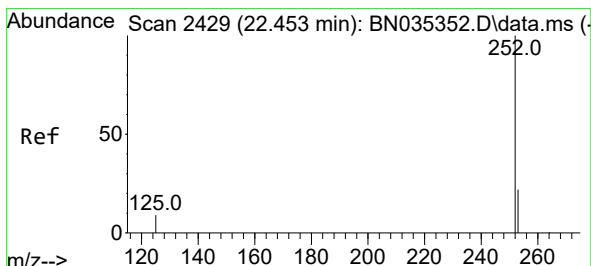
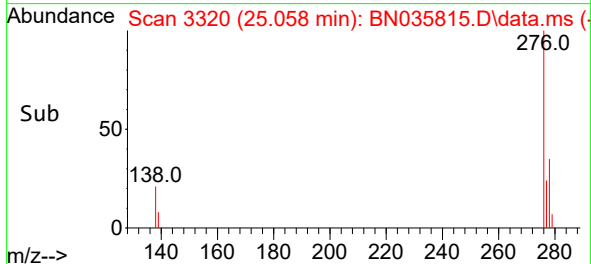
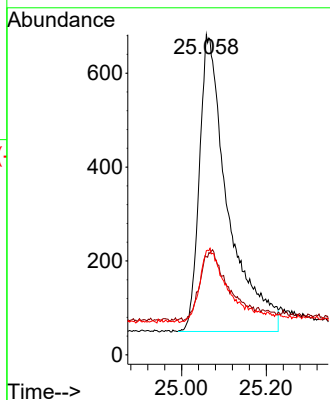
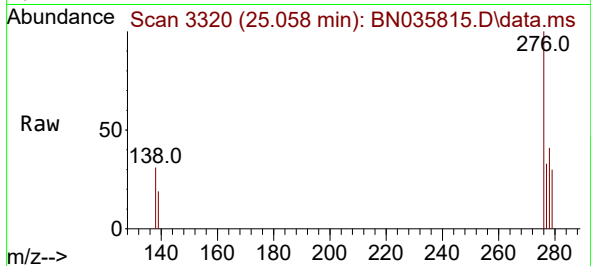




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.115 ng
 RT: 25.058 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN035815.D
 Acq: 24 Dec 2024 11:21

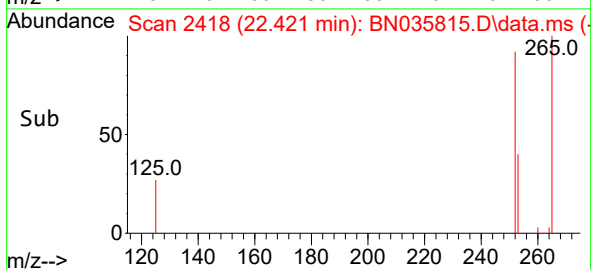
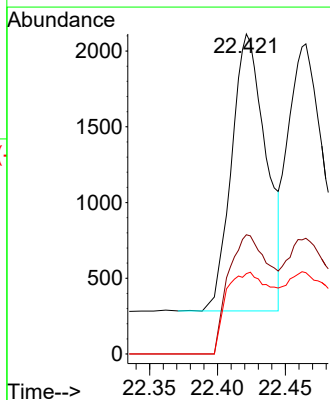
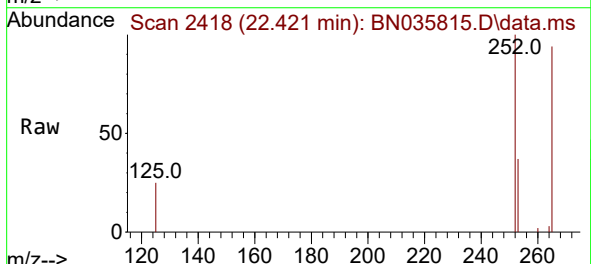
Instrument :
 BNA_N
 ClientSampleId :
 TT150S1-20241218

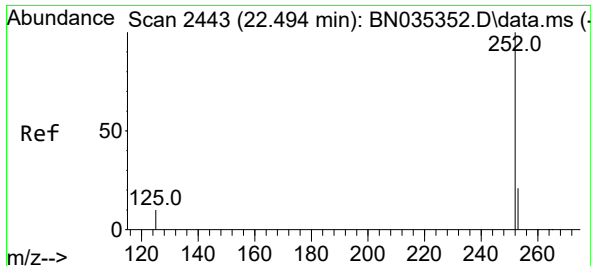
Tgt Ion:276 Resp: 2949
 Ion Ratio Lower Upper
 276 100
 138 22.4 19.4 29.0
 277 22.2 19.8 29.6



#37
 Benzo(b)fluoranthene
 Concen: 0.189 ng
 RT: 22.421 min Scan# 2418
 Delta R.T. -0.009 min
 Lab File: BN035815.D
 Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 4545
 Ion Ratio Lower Upper
 252 100
 253 37.2 19.6 29.4#
 125 25.1 9.6 14.4#

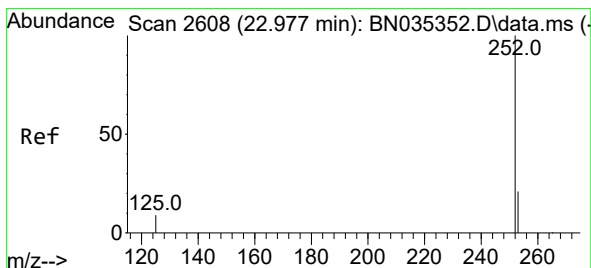
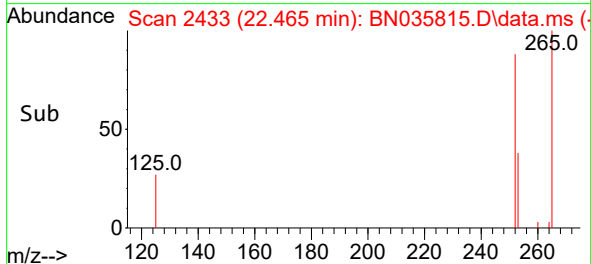
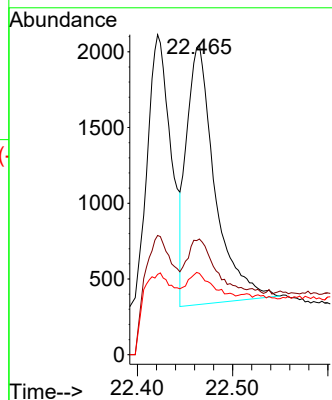
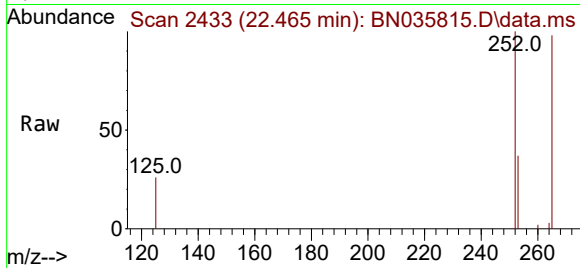




#38
Benzo(k)fluoranthene
Concen: 0.149 ng
RT: 22.465 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

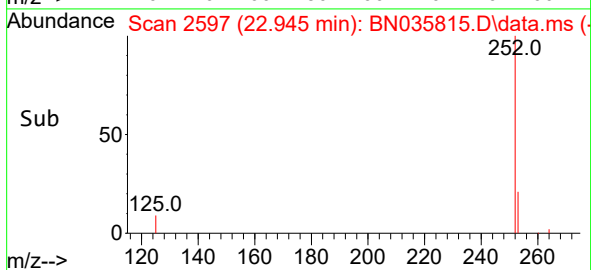
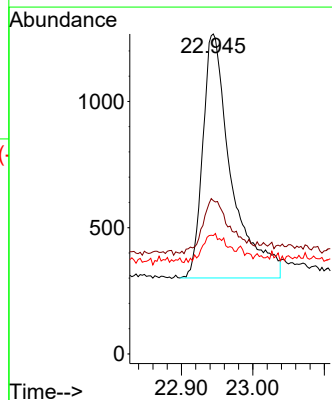
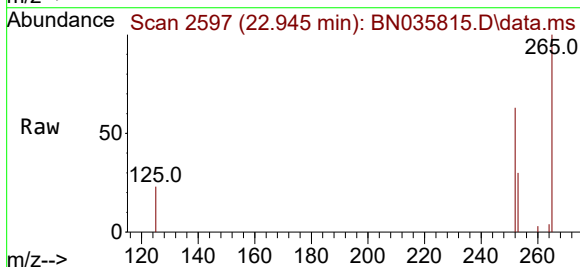
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

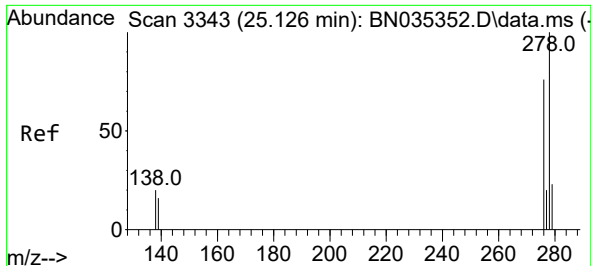
Tgt Ion:252 Resp: 3529
Ion Ratio Lower Upper
252 100
253 37.3 19.5 29.3#
125 26.2 10.2 15.4#



#39
Benzo(a)pyrene
Concen: 0.135 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 2673
Ion Ratio Lower Upper
252 100
253 47.9 20.2 30.4#
125 37.0 10.9 16.3#

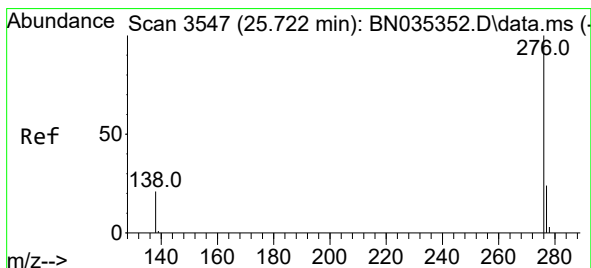
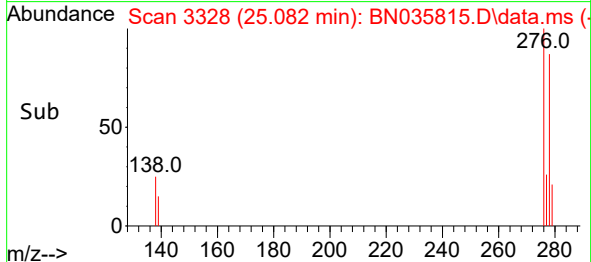
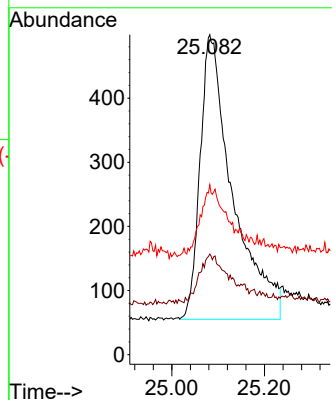
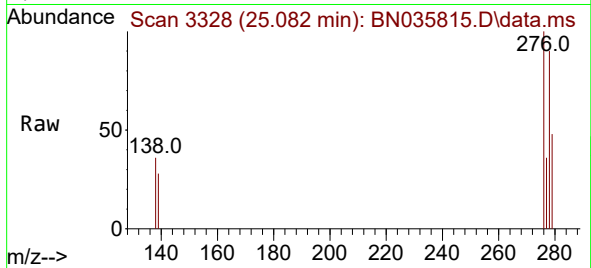




#40
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 25.082 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

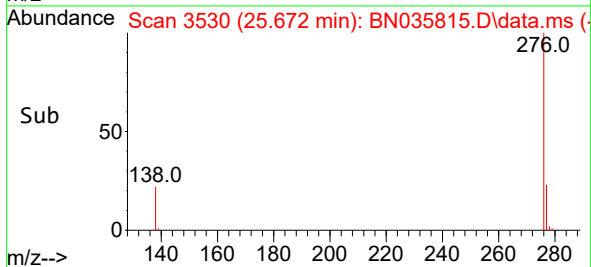
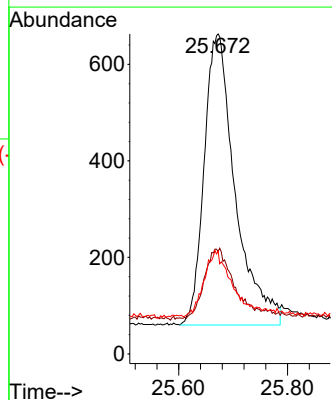
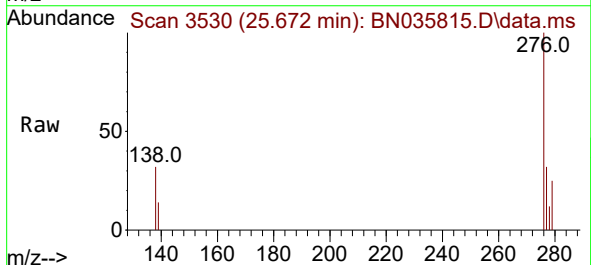
Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:278 Resp: 2170
Ion Ratio Lower Upper
278 100
139 31.5 14.2 21.4#
279 53.1 20.5 30.7#



#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.672 min Scan# 3530
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 2390
Ion Ratio Lower Upper
276 100
277 32.0 19.9 29.9#
138 32.1 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035816.D
 Acq On : 24 Dec 2024 11:57
 Operator : RC/JU
 Sample : P5376-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218

Quant Time: Dec 24 23:17:25 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)

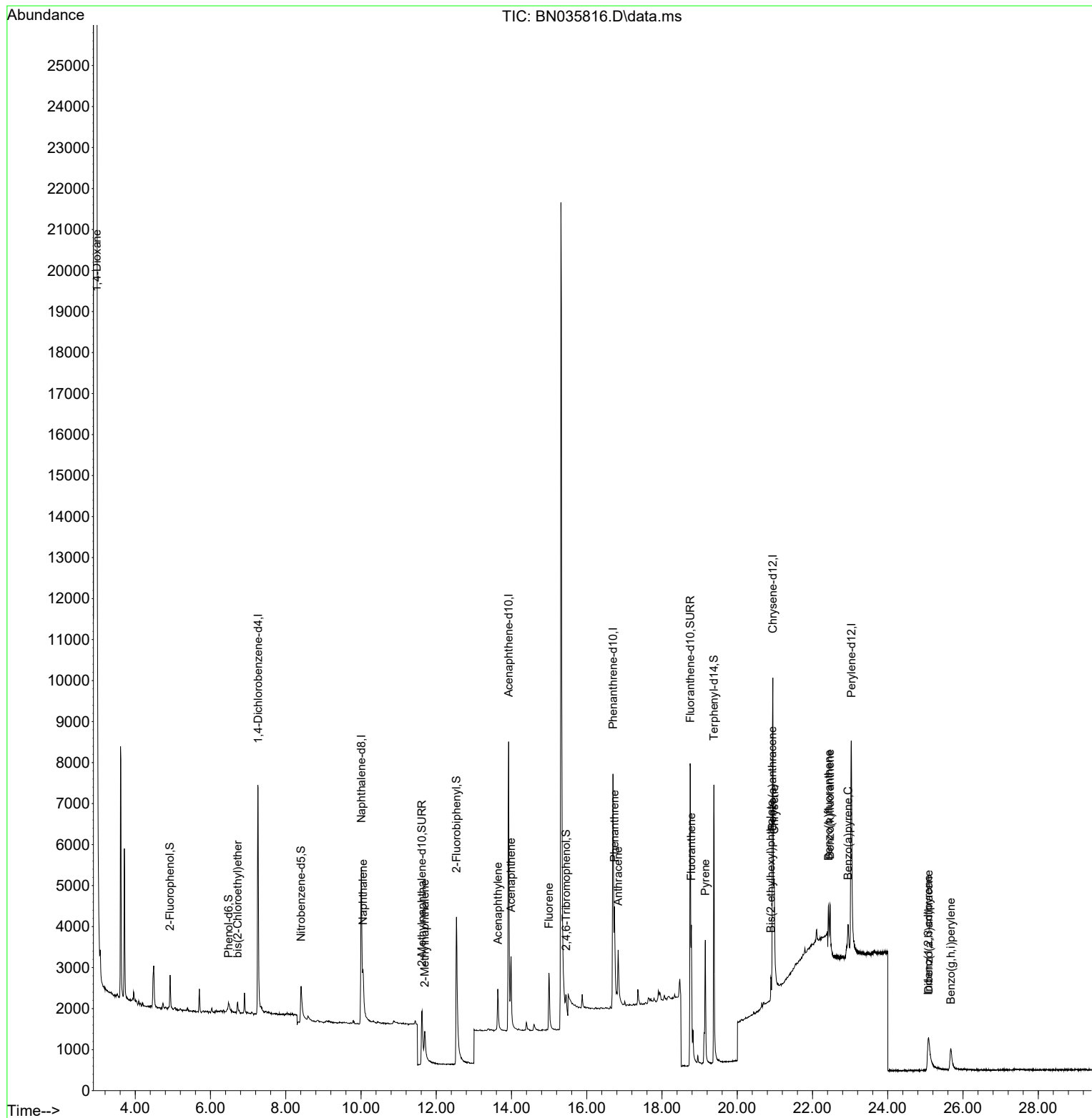
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3275	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7772	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4979	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10106	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8871	0.400	ng	0.00
35) Perylene-d12	23.032	264	8758	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	753	0.092	ng	-0.01
5) Phenol-d6	6.477	99	383	0.039	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2504	0.527	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	3538	0.291	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	586	0.166	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6110	0.325	ng	0.00
27) Fluoranthene-d10	18.752	212	10407	0.363	ng	0.00
31) Terphenyl-d14	19.379	244	8030	0.459	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	23179	7.403	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	310	0.037	ng	93
9) Naphthalene	10.052	128	1561	0.076	ng	# 80
12) 2-Methylnaphthalene	11.697	142	932	0.064	ng	# 87
16) Acenaphthylene	13.636	152	1554	0.074	ng	99
17) Acenaphthene	13.989	154	972	0.070	ng	97
18) Fluorene	14.994	166	1321	0.066	ng	98
25) Phenanthrene	16.736	178	2623	0.094	ng	99
26) Anthracene	16.835	178	1938	0.077	ng	98
28) Fluoranthene	18.780	202	3054	0.082	ng	99
30) Pyrene	19.152	202	3188	0.097	ng	99
32) Benzo(a)anthracene	20.929	228	1910	0.062	ng	93
33) Chrysene	20.983	228	2737	0.086	ng	94
34) Bis(2-ethylhexyl)phtha...	20.893	149	623	0.051	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.073	276	1728	0.050	ng	# 68
37) Benzo(b)fluoranthene	22.424	252	2429	0.076	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	1987	0.063	ng	# 51
39) Benzo(a)pyrene	22.948	252	1503	0.057	ng	# 21
40) Dibenzo(a,h)anthracene	25.088	278	1220	0.045	ng	# 30
41) Benzo(g,h,i)perylene	25.678	276	1434	0.051	ng	# 72

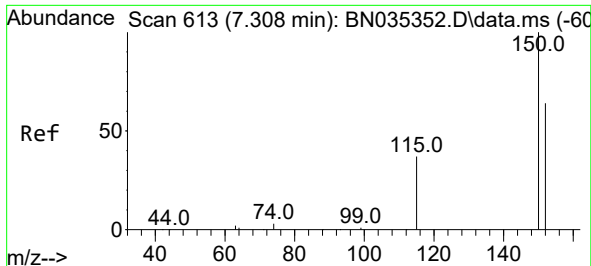
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Quant Time: Dec 24 23:17:25 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

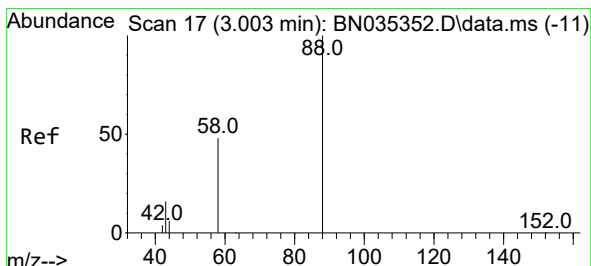
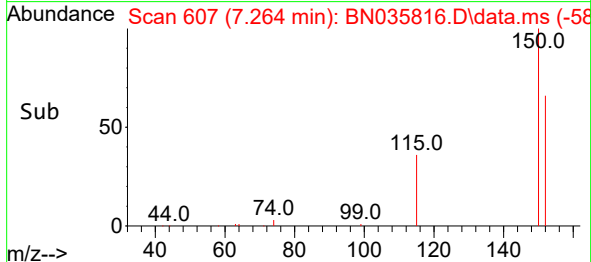
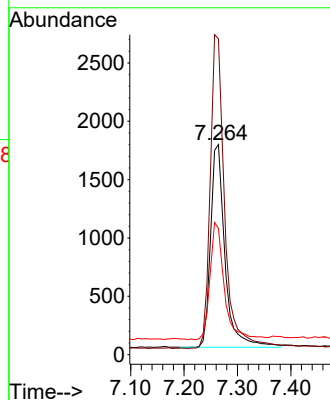
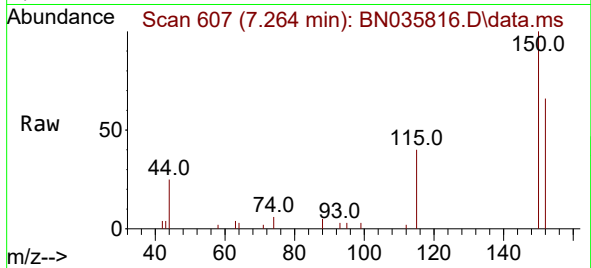




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

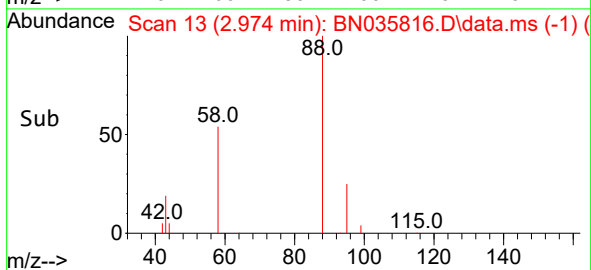
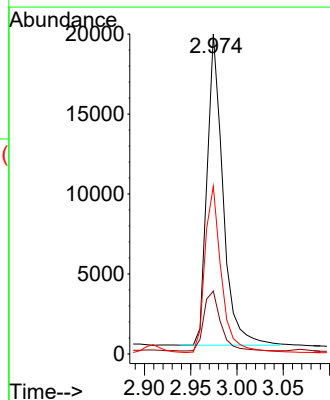
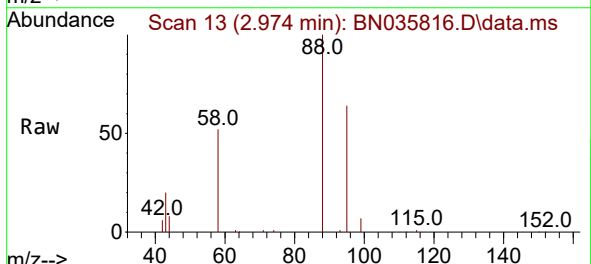
Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218

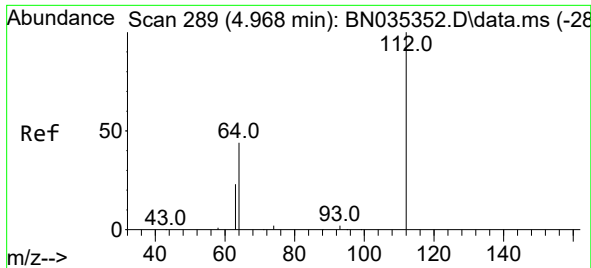
Tgt Ion:152 Resp: 3275
 Ion Ratio Lower Upper
 152 100
 150 150.4 124.0 186.0
 115 60.1 49.6 74.4



#2
 1,4-Dioxane
 Concen: 7.403 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

Tgt Ion: 88 Resp: 23179
 Ion Ratio Lower Upper
 88 100
 43 20.6 17.2 25.8
 58 55.1 44.5 66.7

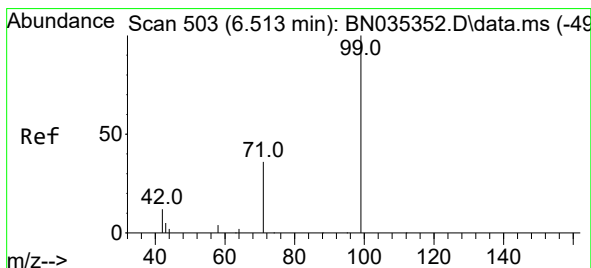
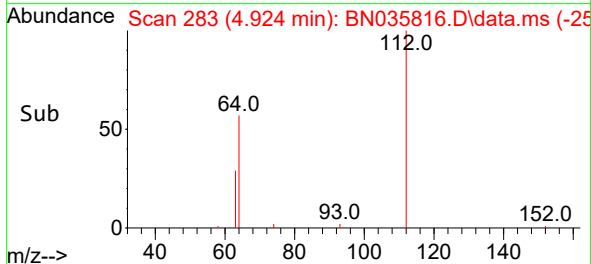
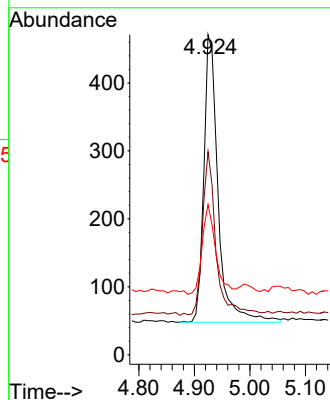
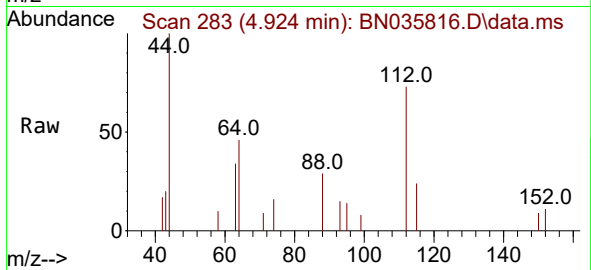




#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

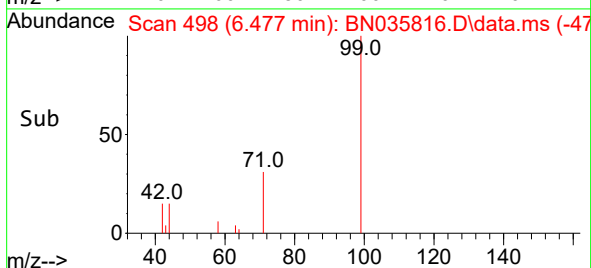
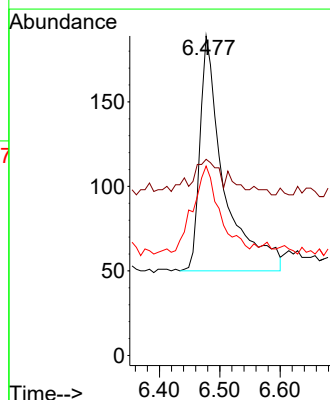
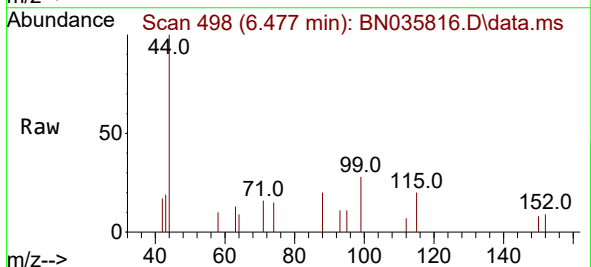
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

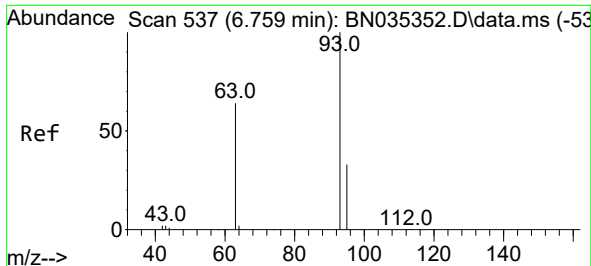
Tgt Ion:112 Resp: 753
Ion Ratio Lower Upper
112 100
64 53.0 39.8 59.8
63 29.3 21.0 31.6



#5
Phenol-d6
Concen: 0.039 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 99 Resp: 383
Ion Ratio Lower Upper
99 100
42 13.8 11.4 17.2
71 44.4 29.3 43.9#

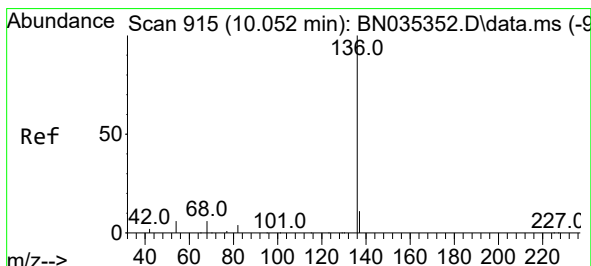
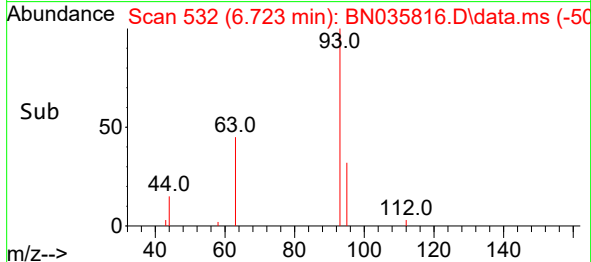
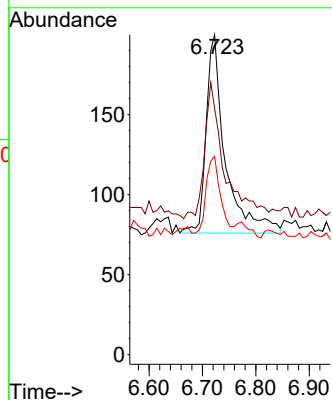
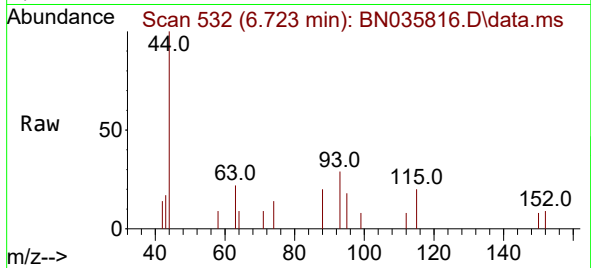




#6
bis(2-Chloroethyl)ether
Concen: 0.037 ng
RT: 6.723 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

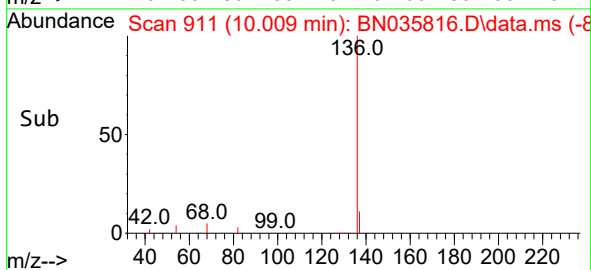
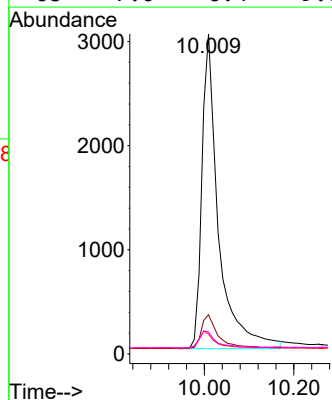
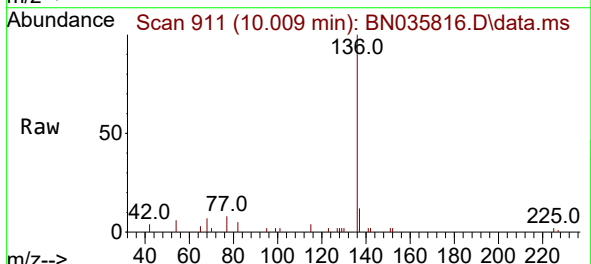
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

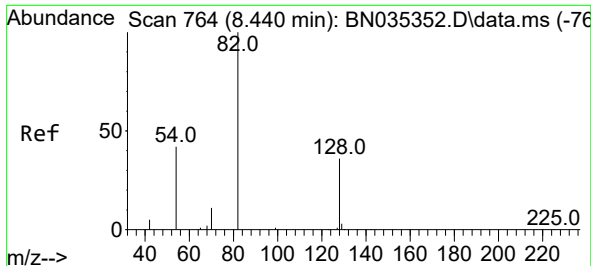
Tgt Ion: 93 Resp: 310
Ion Ratio Lower Upper
93 100
63 70.6 50.4 75.6
95 31.3 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 136 Resp: 7772
Ion Ratio Lower Upper
136 100
137 12.2 10.2 15.2
54 6.3 6.1 9.1
68 7.0 6.4 9.6





#8
Nitrobenzene-d5
Concen: 0.527 ng
RT: 8.408 min Scan# 701
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

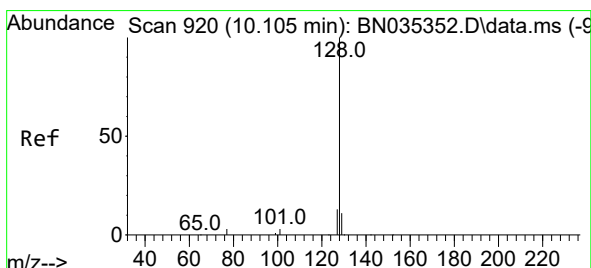
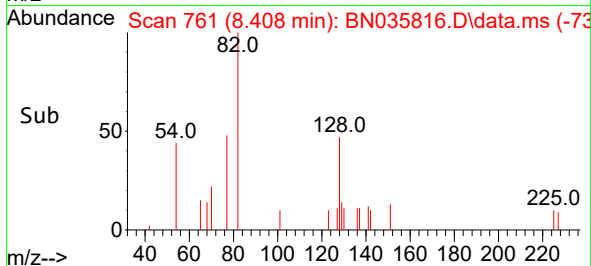
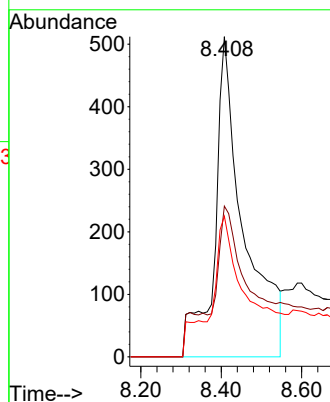
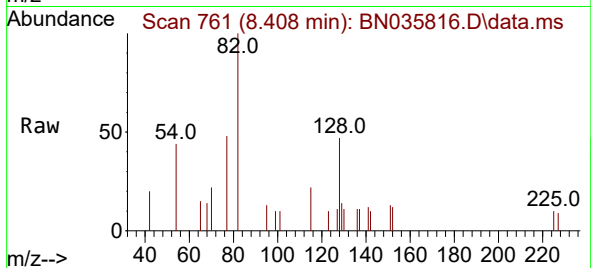
Instrument :

BNA_N

ClientSampleId :

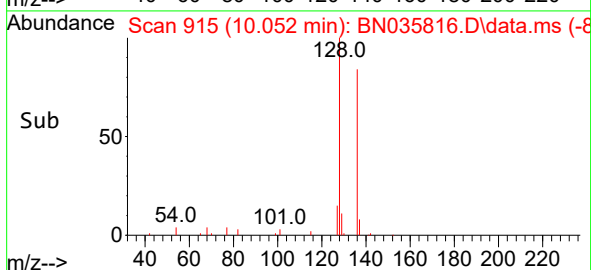
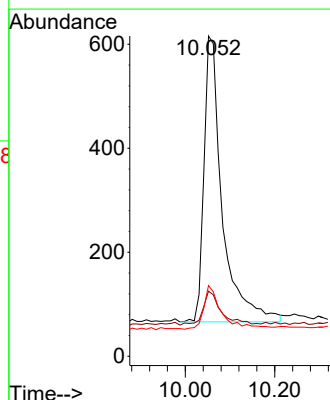
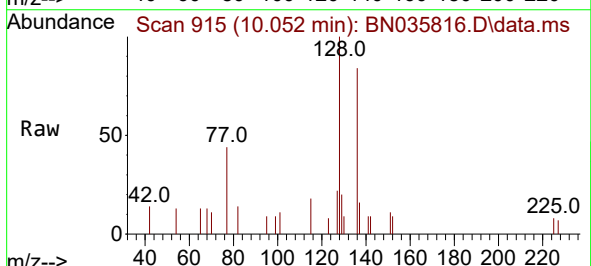
RE115D2-20241218

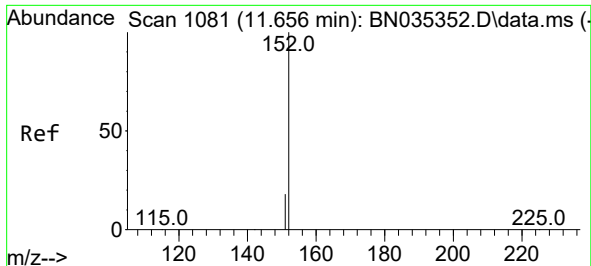
Tgt Ion: 82 Resp: 2504
Ion Ratio Lower Upper
82 100
128 47.1 33.4 50.0
54 43.9 36.7 55.1



#9
Naphthalene
Concen: 0.076 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 128 Resp: 1561
Ion Ratio Lower Upper
128 100
129 20.3 9.8 14.6#
127 22.1 11.4 17.2#

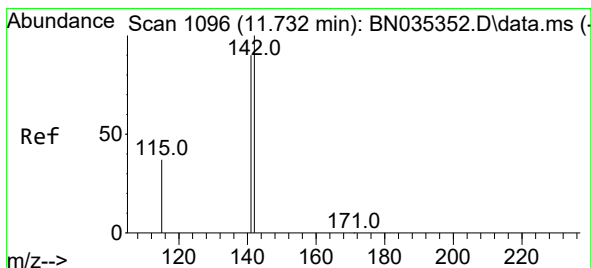
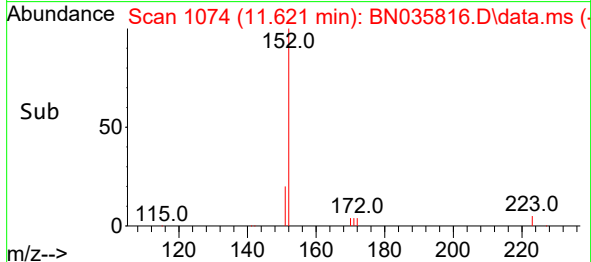
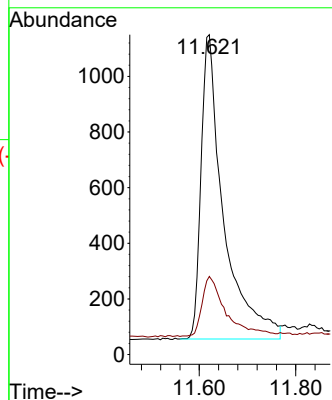
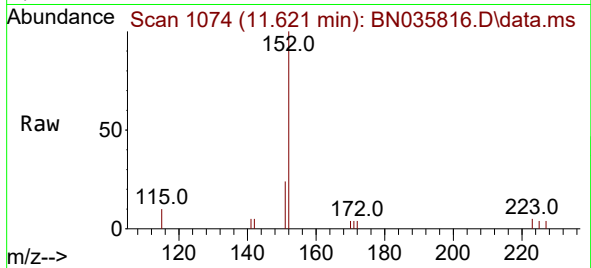




#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 11.621 min Scan# 1074
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

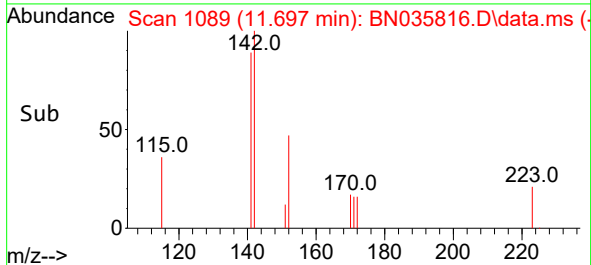
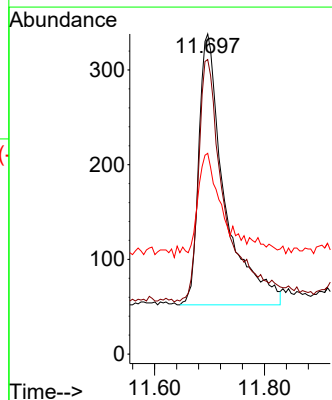
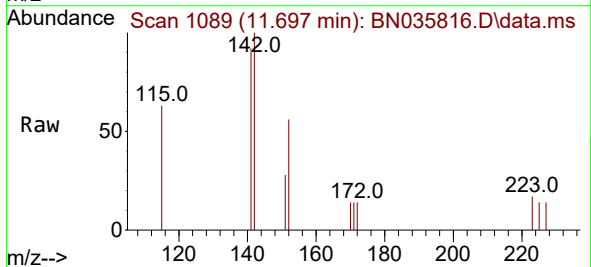
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

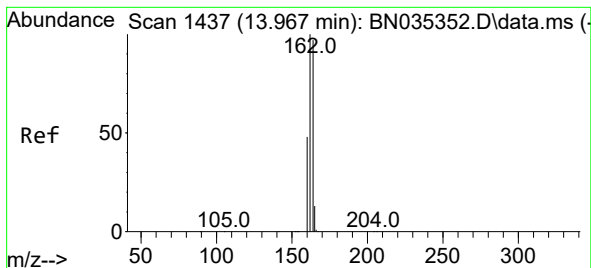
Tgt Ion:152 Resp: 3538
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:142 Resp: 932
Ion Ratio Lower Upper
142 100
141 92.0 72.2 108.4
115 62.7 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: BN035816.D

Acq: 24 Dec 2024 11:57

Instrument :

BNA_N

ClientSampleId :

RE115D2-20241218

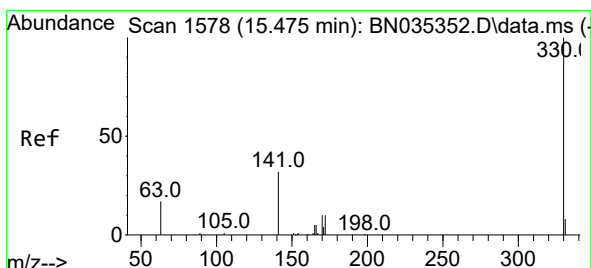
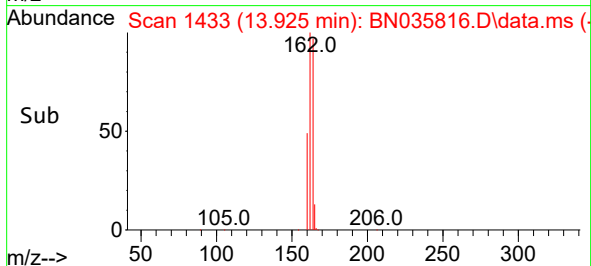
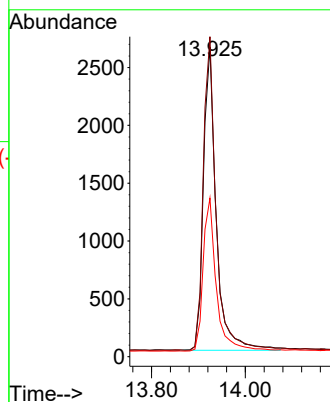
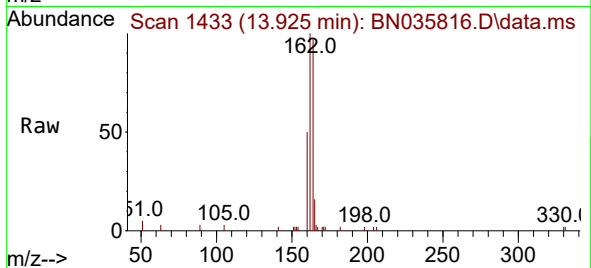
Tgt Ion:164 Resp: 4979

Ion Ratio Lower Upper

164 100

162 103.3 82.2 123.2

160 51.2 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.166 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035816.D

Acq: 24 Dec 2024 11:57

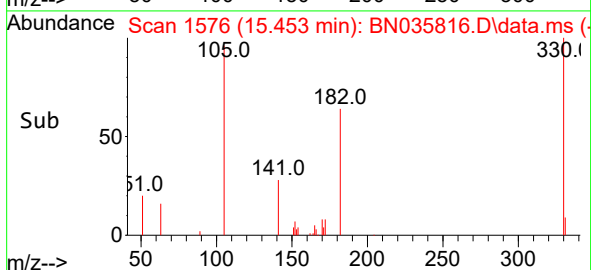
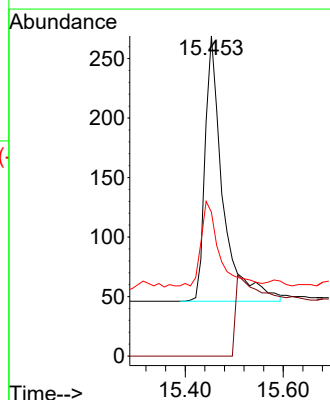
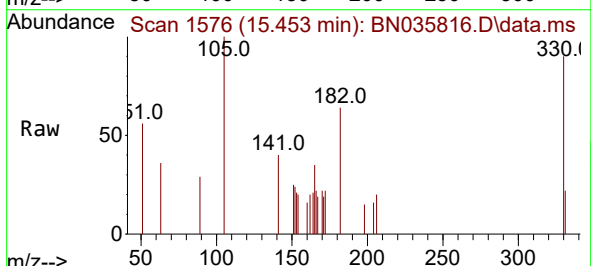
Tgt Ion:330 Resp: 586

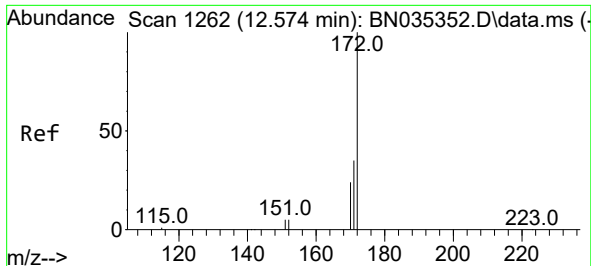
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 31.6 26.6 40.0

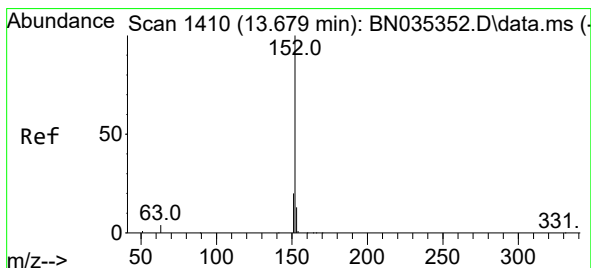
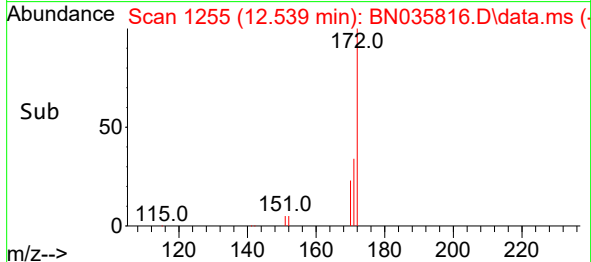
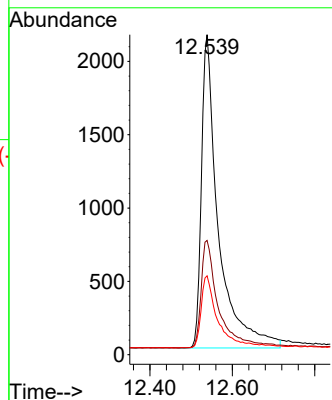
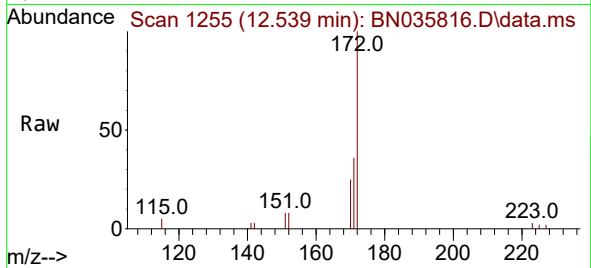




#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

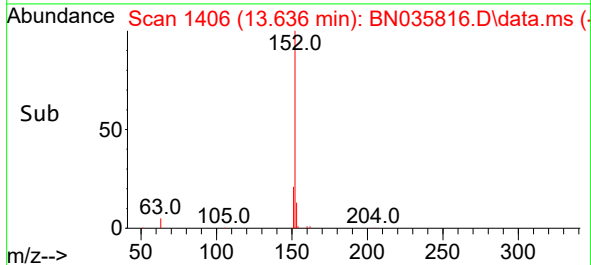
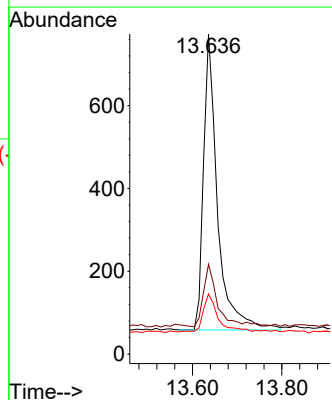
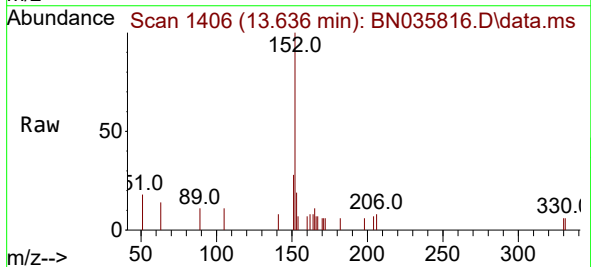
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

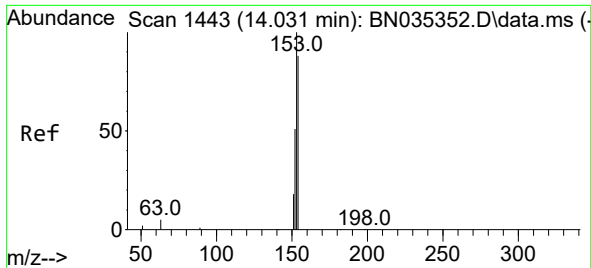
Tgt Ion:	172	Resp:	6110
Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.7	19.8	29.8



#16
Acenaphthylene
Concen: 0.074 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:	152	Resp:	1554
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.2	24.2
153	13.4	10.4	15.6

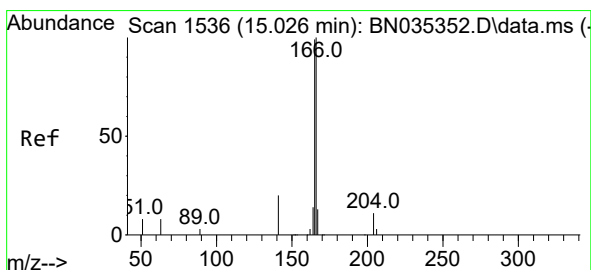
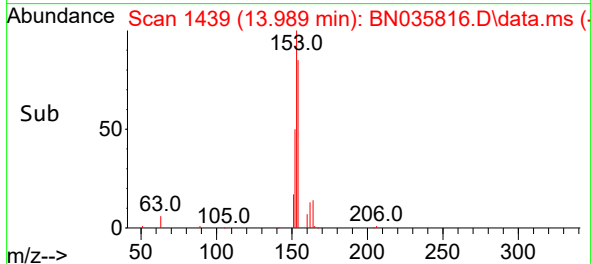
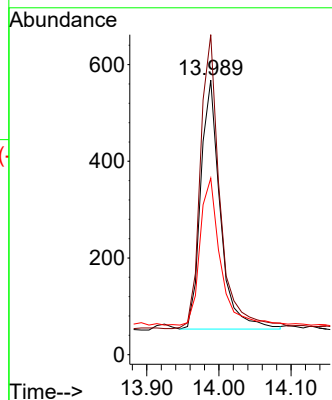
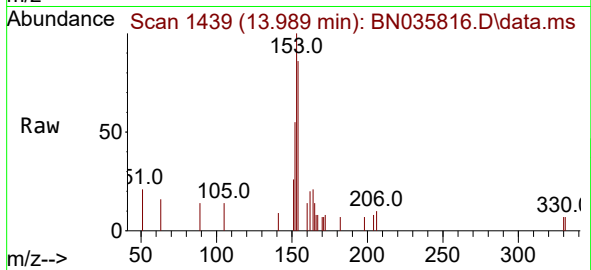




#17
Acenaphthene
Concen: 0.070 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

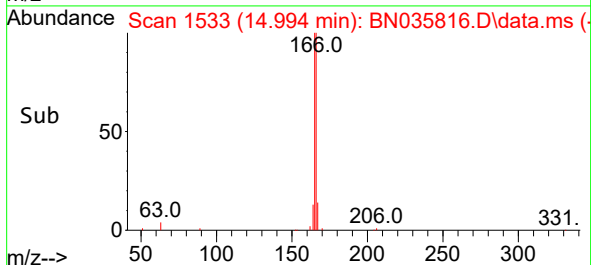
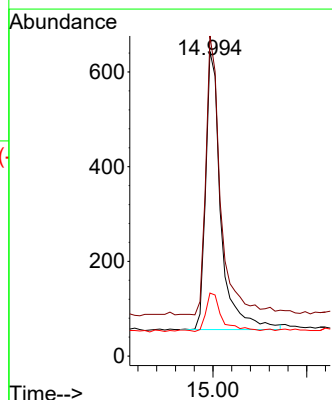
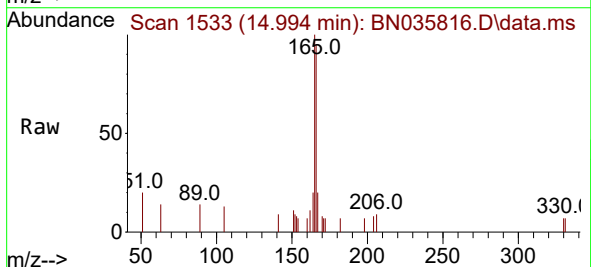
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

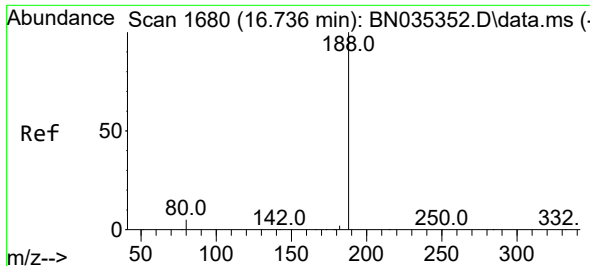
Tgt Ion:154 Resp: 972
Ion Ratio Lower Upper
154 100
153 119.9 92.6 139.0
152 61.5 49.0 73.6



#18
Fluorene
Concen: 0.066 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:166 Resp: 1321
Ion Ratio Lower Upper
166 100
165 97.3 79.7 119.5
167 14.5 10.8 16.2

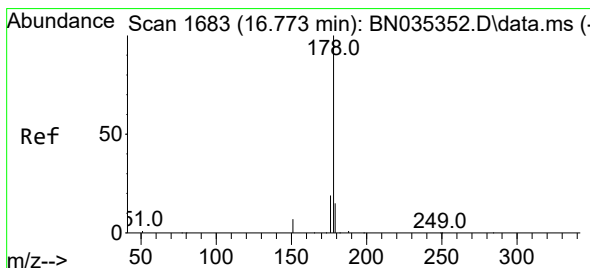
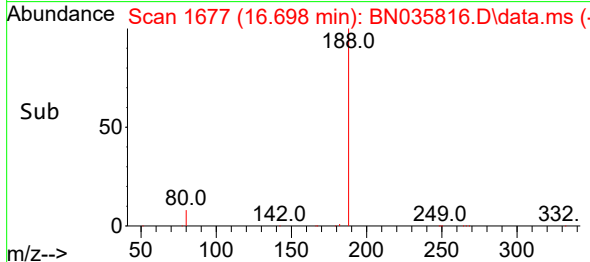
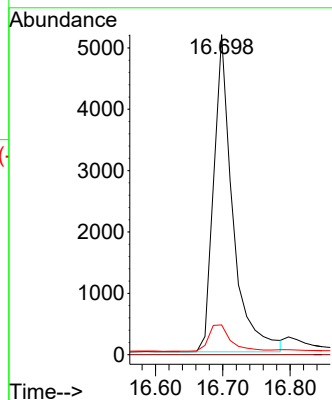
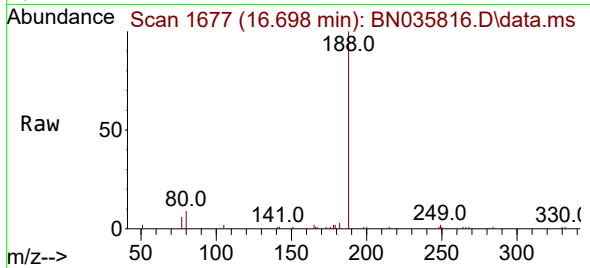




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

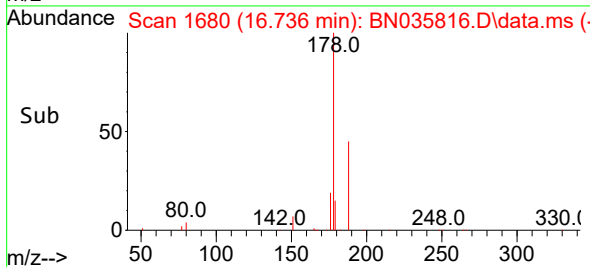
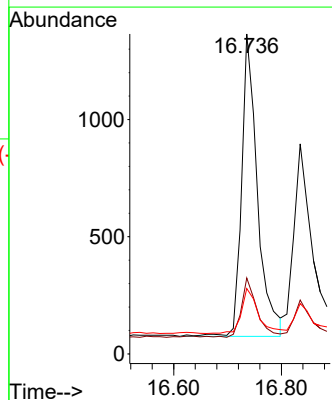
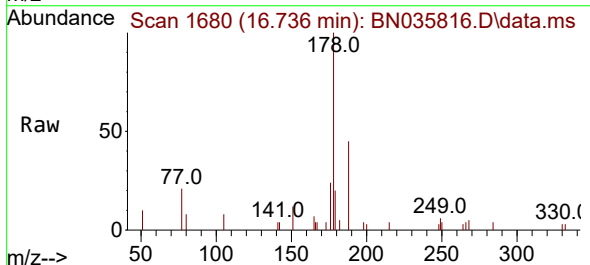
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

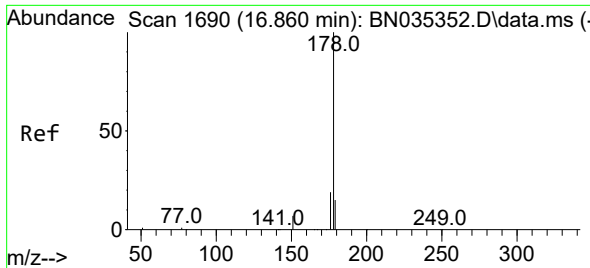
Tgt Ion:188 Resp: 10106
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.3 4.6 6.8#



#25
Phenanthrene
Concen: 0.094 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 2623
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.7 12.3 18.5

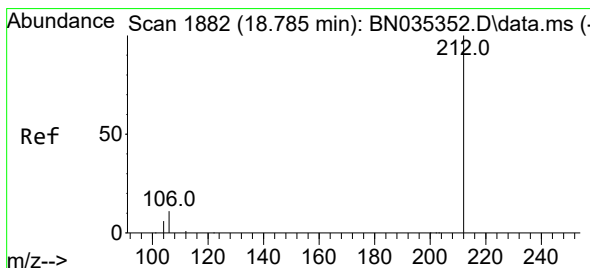
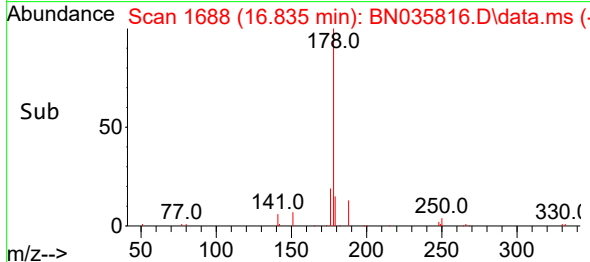
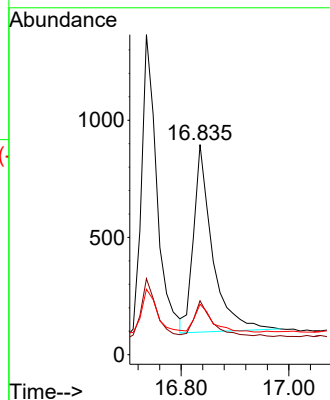
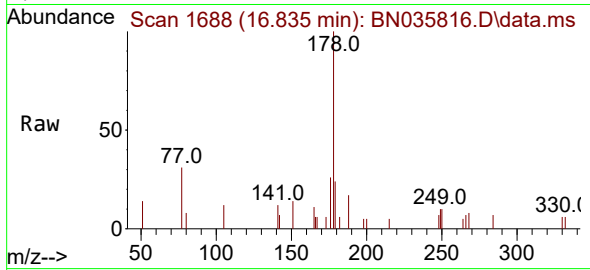




#26
 Anthracene
 Concen: 0.077 ng
 RT: 16.835 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

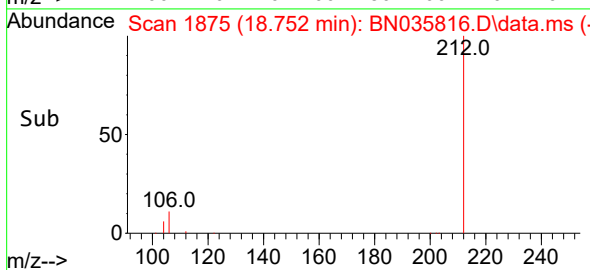
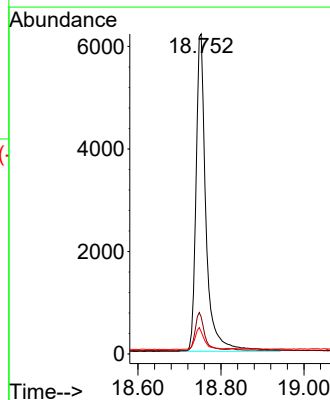
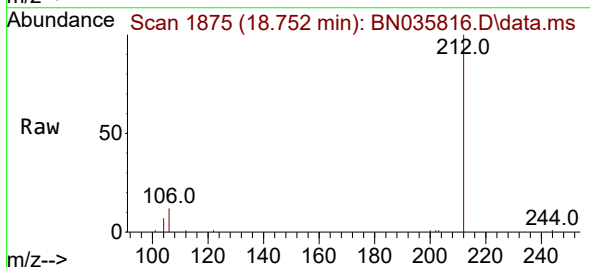
Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218

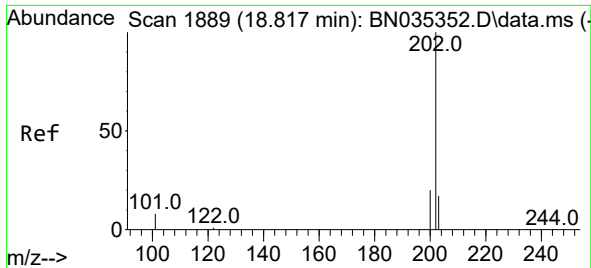
Tgt Ion:	178	Resp:	1938
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.0	22.6
179	14.3	12.6	18.8



#27
 Fluoranthene-d10
 Concen: 0.363 ng
 RT: 18.752 min Scan# 1875
 Delta R.T. -0.009 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

Tgt Ion:	212	Resp:	10407
Ion Ratio	Lower	Upper	
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9

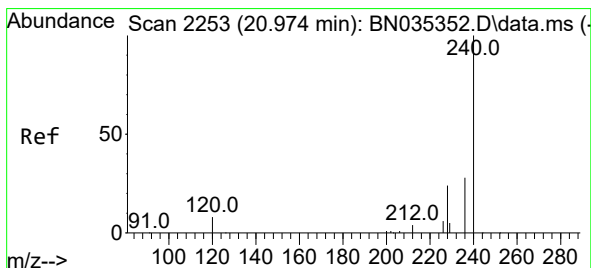
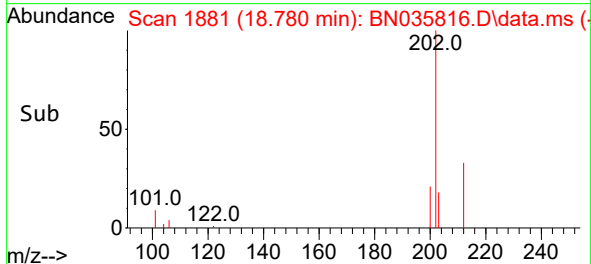
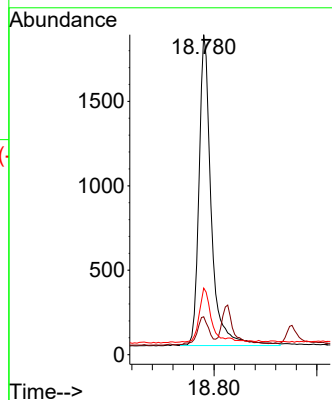
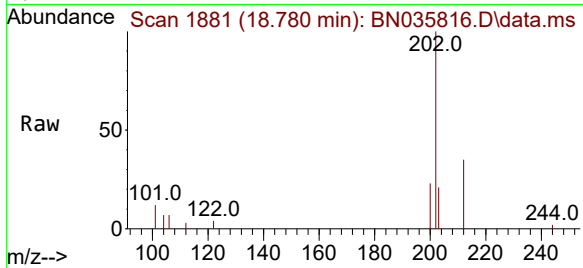




#28
Fluoranthene
Concen: 0.082 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

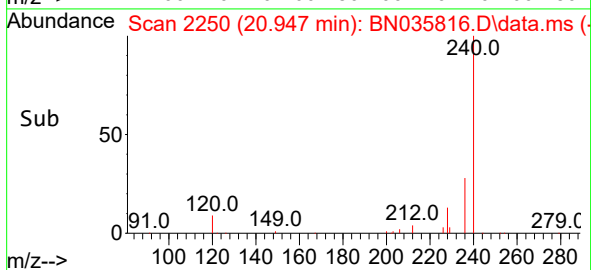
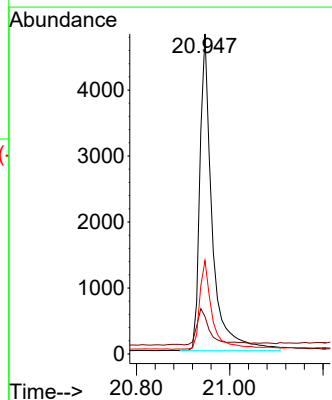
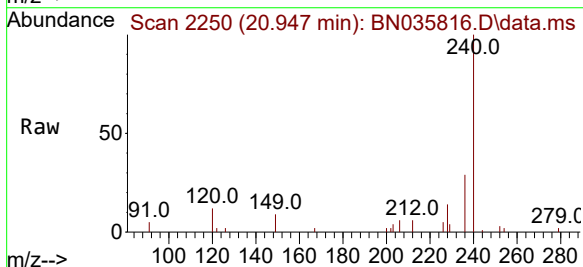
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

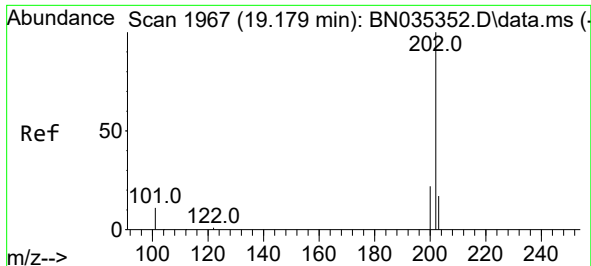
Tgt Ion:202 Resp: 3054
Ion Ratio Lower Upper
202 100
101 8.8 7.4 11.0
203 16.4 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:240 Resp: 8871
Ion Ratio Lower Upper
240 100
120 11.7 7.9 11.9
236 29.2 22.9 34.3

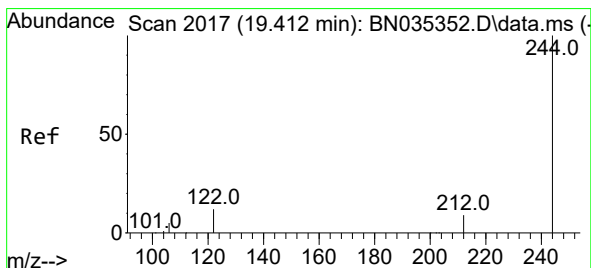
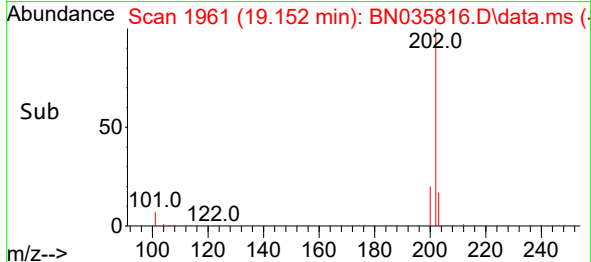
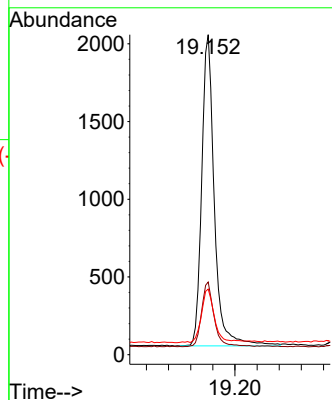
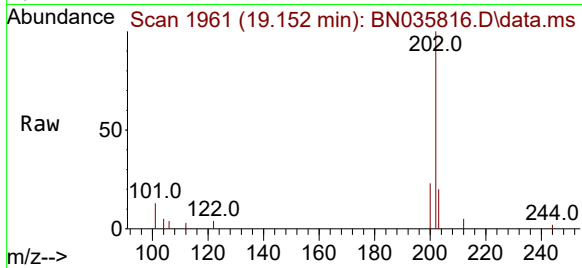




#30
Pyrene
Concen: 0.097 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

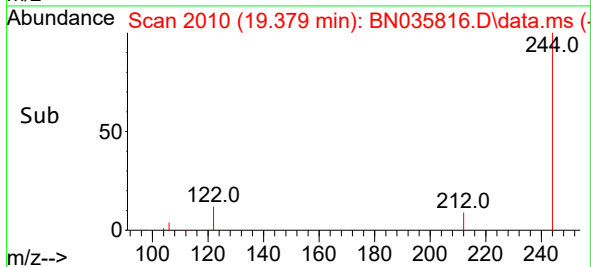
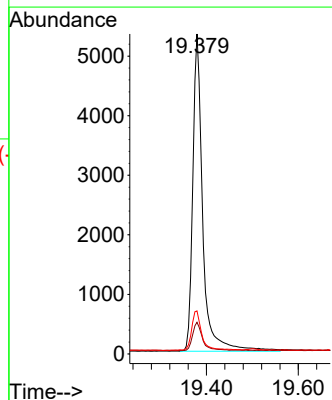
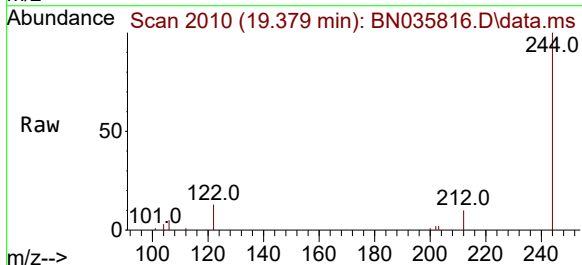
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

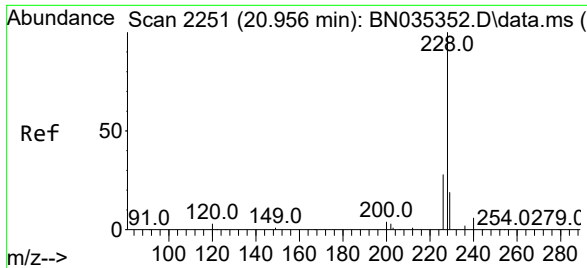
Tgt Ion:	202	Resp:	3188
Ion Ratio	Lower	Upper	
202	100		
200	20.5	17.0	25.4
203	17.3	14.3	21.5



#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:	244	Resp:	8030
Ion Ratio	Lower	Upper	
244	100		
212	9.9	8.1	12.1
122	13.5	10.3	15.5

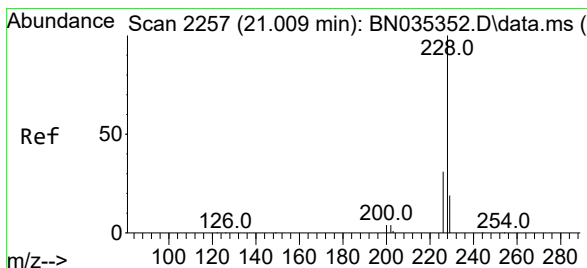
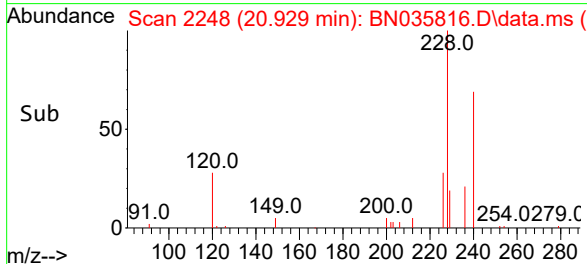
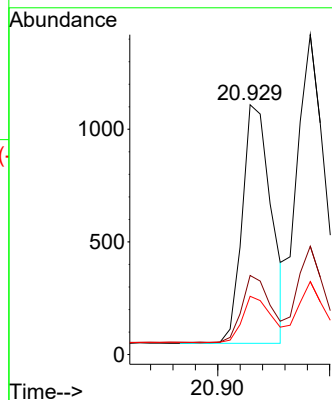
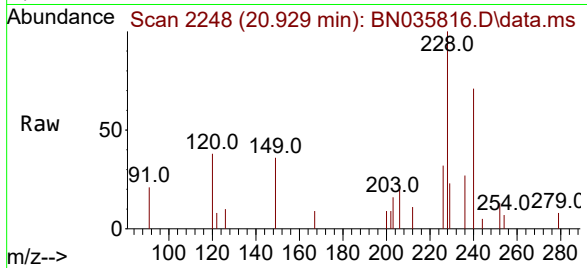




#32
Benzo(a)anthracene
Concen: 0.062 ng
RT: 20.929 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

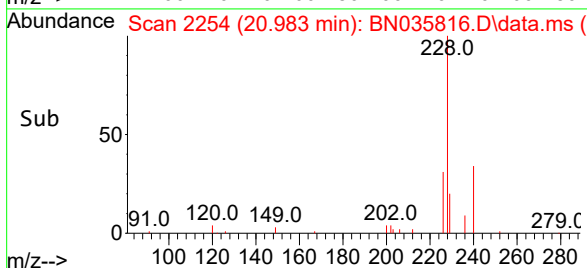
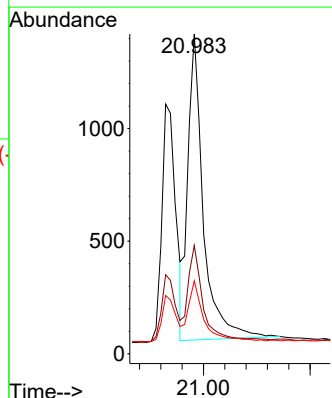
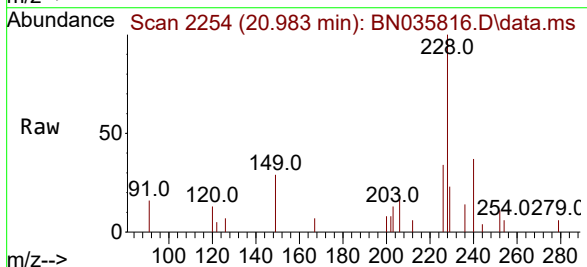
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

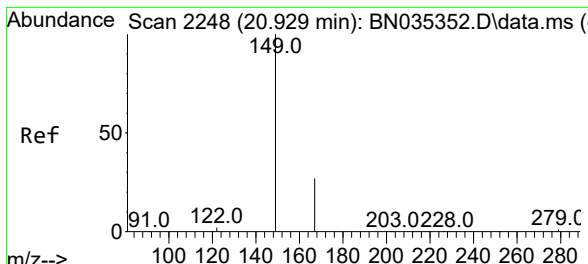
Tgt Ion:228 Resp: 1910
Ion Ratio Lower Upper
228 100
226 31.7 22.5 33.7
229 23.4 15.8 23.8



#33
Chrysene
Concen: 0.086 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 2737
Ion Ratio Lower Upper
228 100
226 33.9 24.6 37.0
229 22.8 15.9 23.9

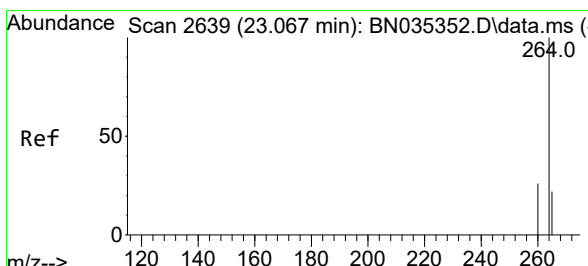
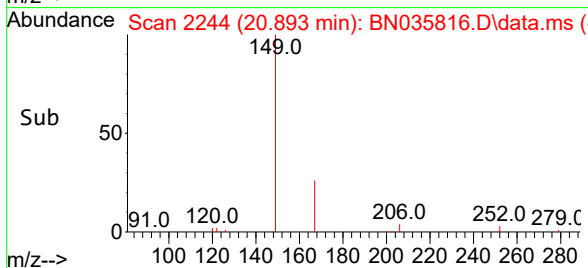
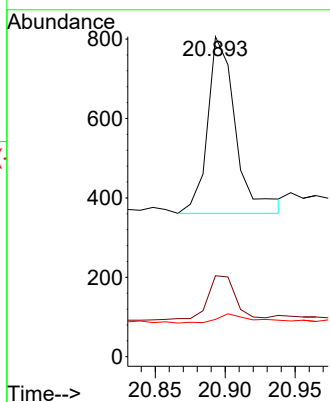
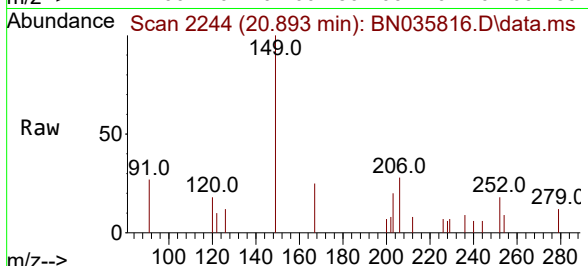




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.051 ng
 RT: 20.893 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

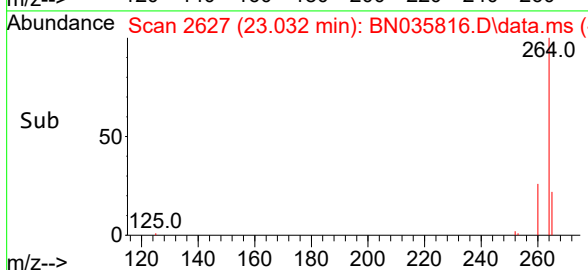
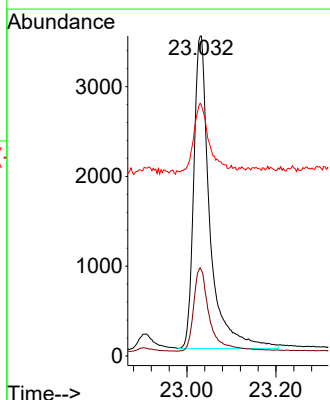
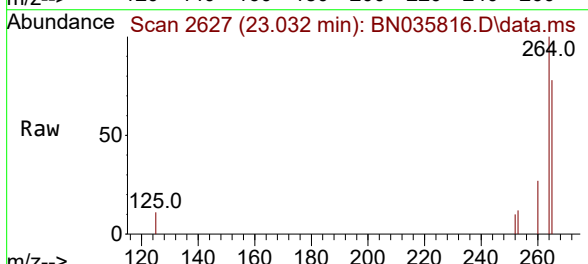
Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218

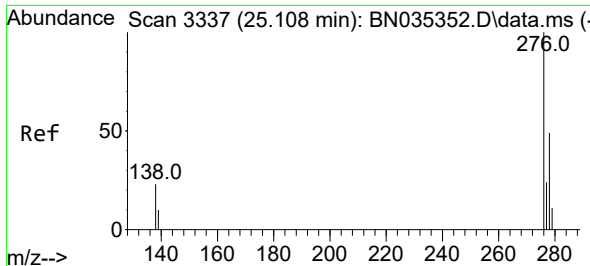
Tgt Ion:	149	Resp:	623
Ion Ratio	Lower	Upper	
149	100		
167	24.7	22.2	33.4
279	6.7	2.7	4.1#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.032 min Scan# 2627
 Delta R.T. -0.009 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

Tgt Ion:	264	Resp:	8758
Ion Ratio	Lower	Upper	
264	100		
260	26.8	21.4	32.2
265	78.4	40.2	60.4#

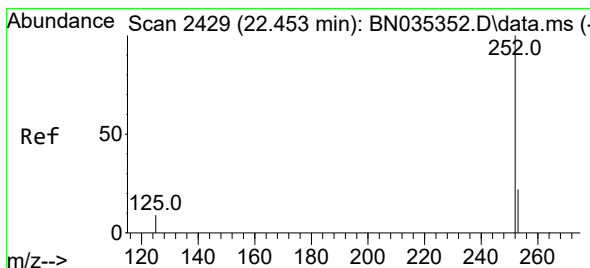
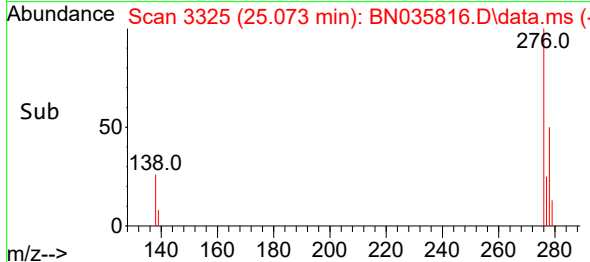
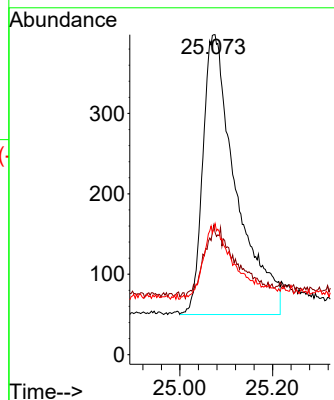
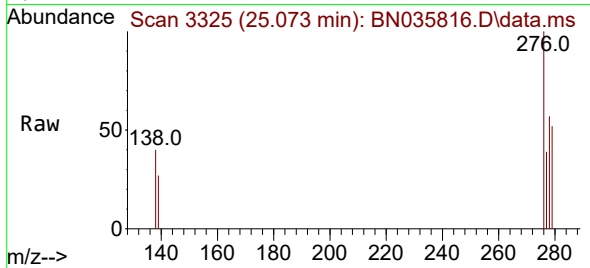




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.050 ng
 RT: 25.073 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

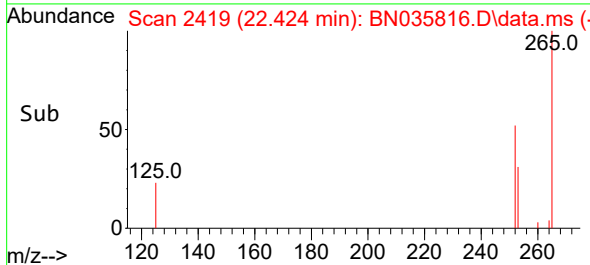
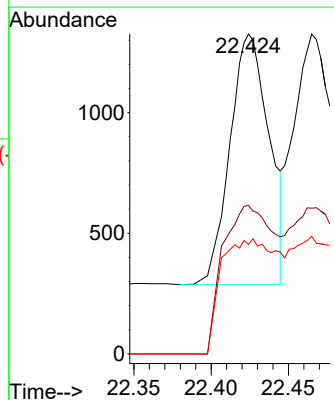
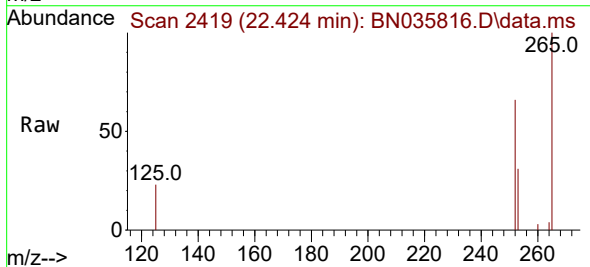
Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218

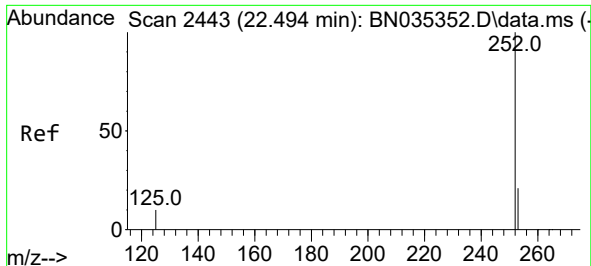
Tgt Ion:276 Resp: 1728
 Ion Ratio Lower Upper
 276 100
 138 10.1 19.4 29.0#
 277 7.3 19.8 29.6#



#37
 Benzo(b)fluoranthene
 Concen: 0.076 ng
 RT: 22.424 min Scan# 2419
 Delta R.T. -0.006 min
 Lab File: BN035816.D
 Acq: 24 Dec 2024 11:57

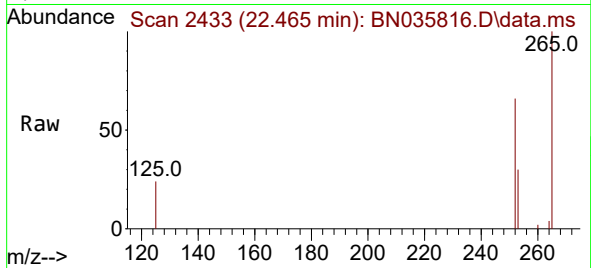
Tgt Ion:252 Resp: 2429
 Ion Ratio Lower Upper
 252 100
 253 46.4 19.6 29.4#
 125 34.2 9.6 14.4#



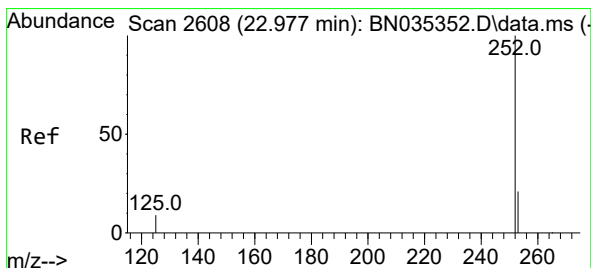
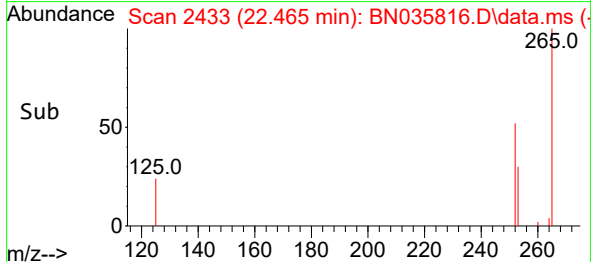
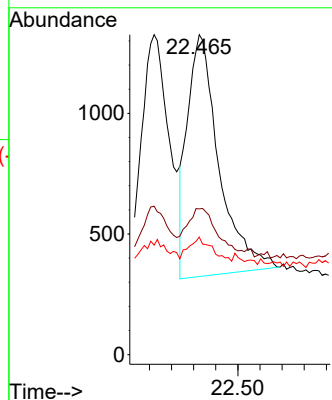


#38
Benzo(k)fluoranthene
Concen: 0.063 ng
RT: 22.465 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

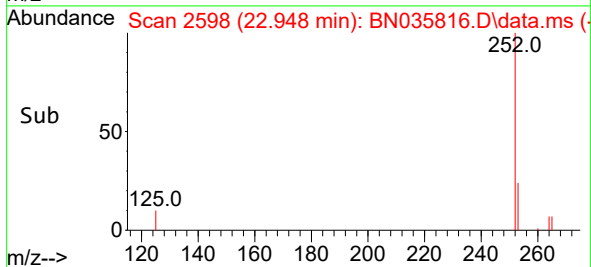
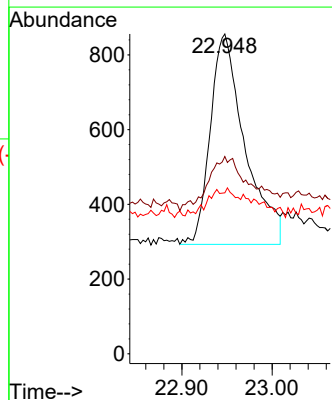
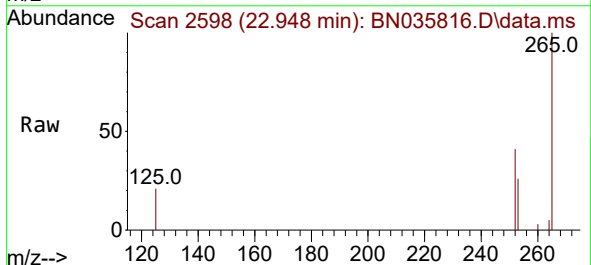


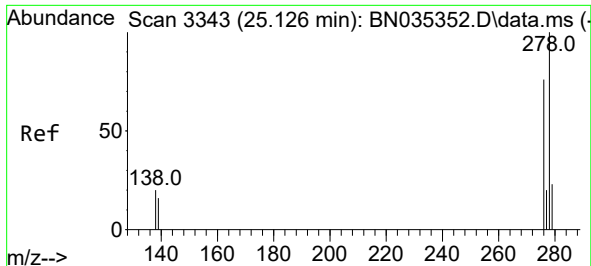
Tgt Ion:252 Resp: 1987
Ion Ratio Lower Upper
252 100
253 45.6 19.5 29.3#
125 36.7 10.2 15.4#



#39
Benzo(a)pyrene
Concen: 0.057 ng
RT: 22.948 min Scan# 2598
Delta R.T. -0.003 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 1503
Ion Ratio Lower Upper
252 100
253 61.7 20.2 30.4#
125 50.4 10.9 16.3#

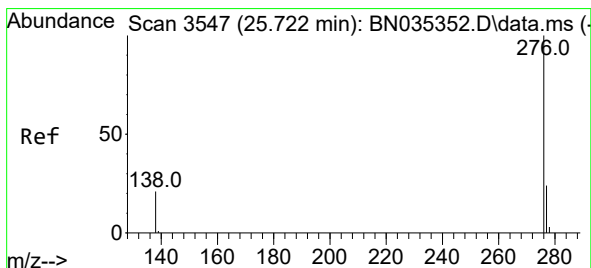
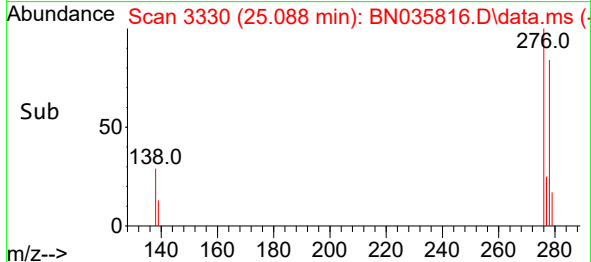
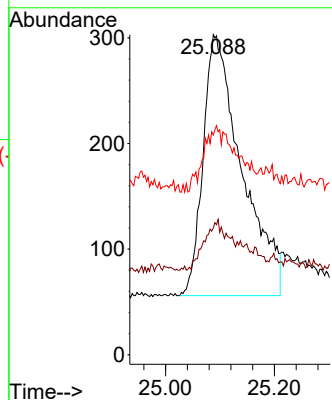
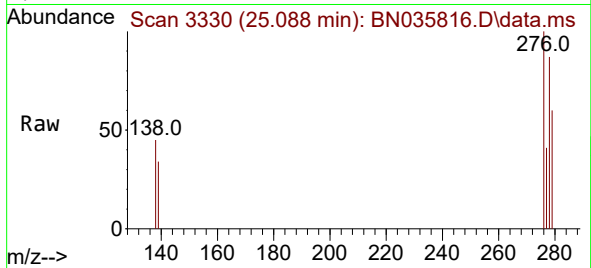




#40
Dibenzo(a,h)anthracene
Concen: 0.045 ng
RT: 25.088 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

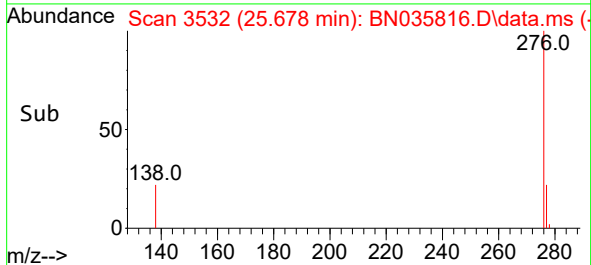
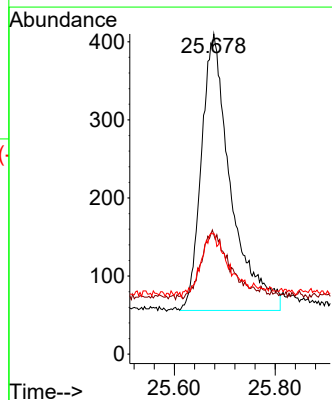
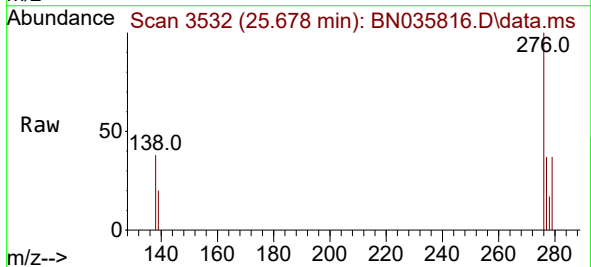
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:278 Resp: 1220
Ion Ratio Lower Upper
278 100
139 39.6 14.2 21.4#
279 68.6 20.5 30.7#



#41
Benzo(g,h,i)perylene
Concen: 0.051 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 1434
Ion Ratio Lower Upper
276 100
277 37.3 19.9 29.9#
138 37.8 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035817.D
 Acq On : 24 Dec 2024 12:33
 Operator : RC/JU
 Sample : P5376-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT149S1-20241218

Quant Time: Dec 24 23:17:43 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)

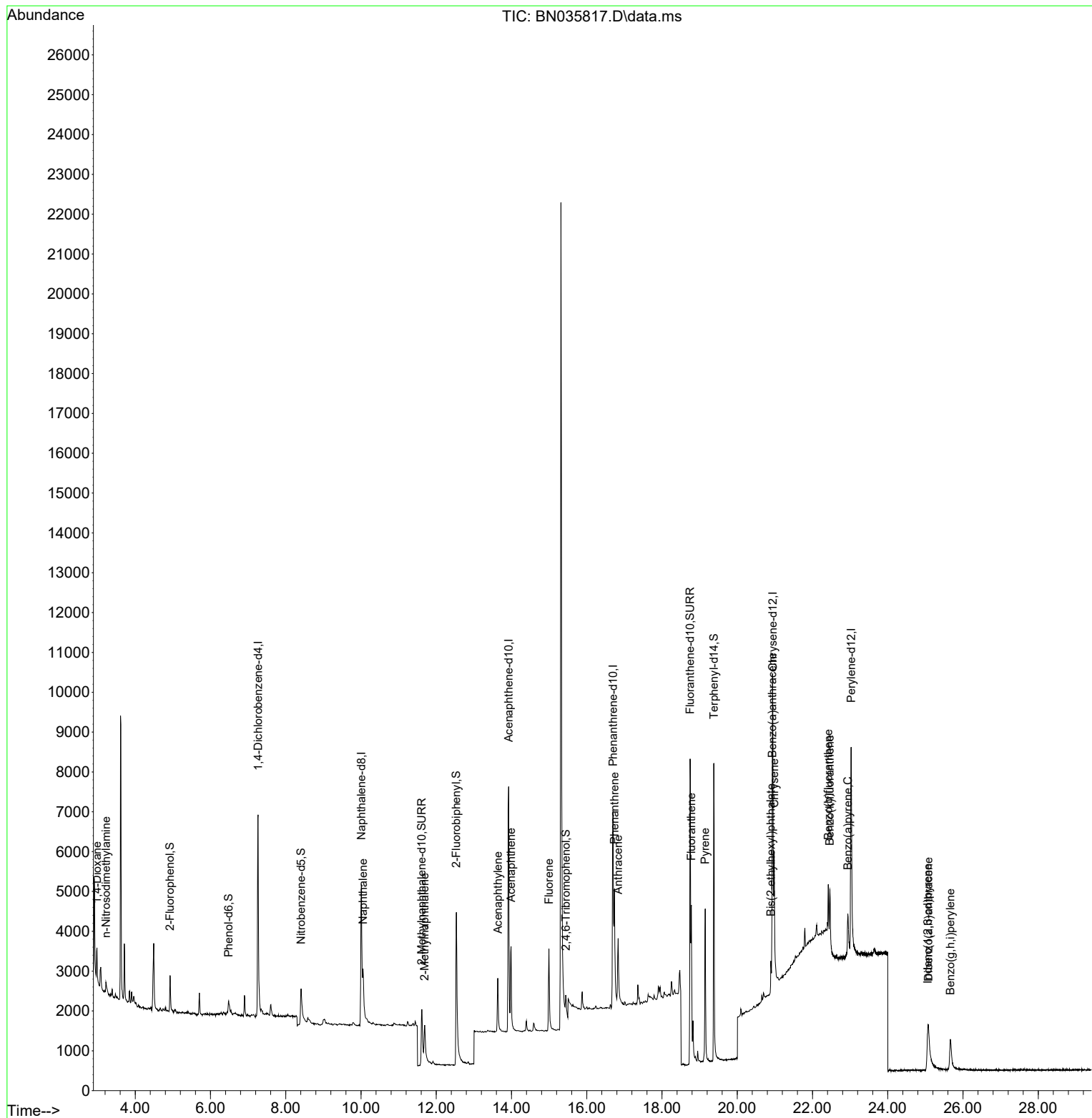
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	2882	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6877	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4352	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9250	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8129	0.400	ng	0.00
35) Perylene-d12	23.027	264	8126	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	816	0.113	ng	-0.01
5) Phenol-d6	6.477	99	466	0.054	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2530	0.602	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3542	0.329	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	609	0.197	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	5853	0.356	ng	-0.01
27) Fluoranthene-d10	18.748	212	10238	0.390	ng	-0.01
31) Terphenyl-d14	19.379	244	8867	0.553	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.982	88	759	0.275	ng	# 85
3) n-Nitrosodimethylamine	3.220	42	64	0.028	ng	# 1
9) Naphthalene	10.052	128	1895	0.104	ng	# 86
12) 2-Methylnaphthalene	11.692	142	1157	0.089	ng	# 90
16) Acenaphthylene	13.636	152	1924	0.105	ng	98
17) Acenaphthene	13.989	154	1204	0.099	ng	99
18) Fluorene	14.994	166	1680	0.097	ng	99
25) Phenanthrene	16.736	178	3237	0.127	ng	100
26) Anthracene	16.835	178	2442	0.106	ng	98
28) Fluoranthene	18.780	202	3731	0.109	ng	99
30) Pyrene	19.147	202	4005	0.133	ng	99
32) Benzo(a)anthracene	20.929	228	2676	0.094	ng	95
33) Chrysene	20.983	228	3497	0.119	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	786	0.070	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.064	276	2211	0.070	ng	99
37) Benzo(b)fluoranthene	22.421	252	3364	0.113	ng	# 65
38) Benzo(k)fluoranthene	22.462	252	2940	0.100	ng	# 60
39) Benzo(a)pyrene	22.942	252	2085	0.085	ng	# 38
40) Dibenzo(a,h)anthracene	25.079	278	1701	0.068	ng	# 44
41) Benzo(g,h,i)perylene	25.667	276	1967	0.075	ng	# 84

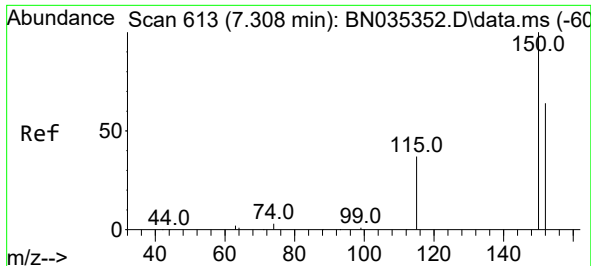
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

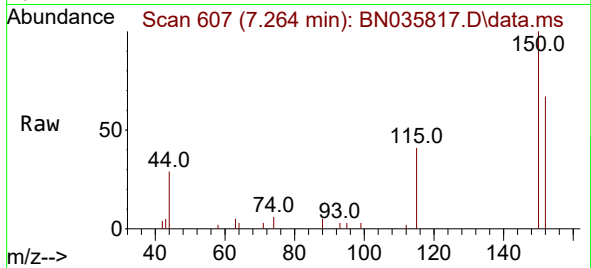
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



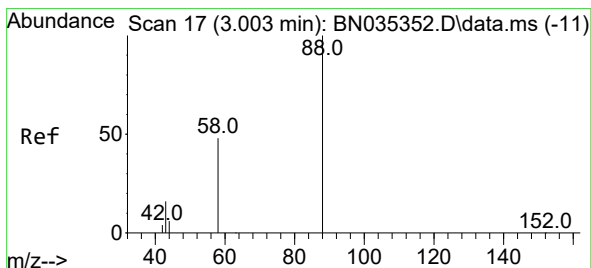
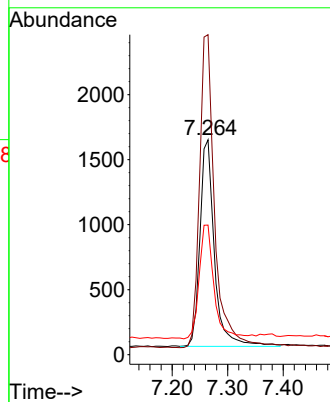
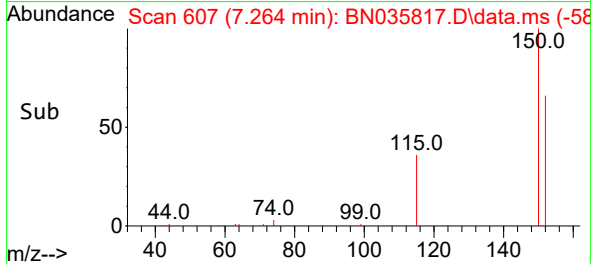


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035817.D
 Acq: 24 Dec 2024 12:33

Instrument :
 BNA_N
 ClientSampleId :
 TT149S1-20241218

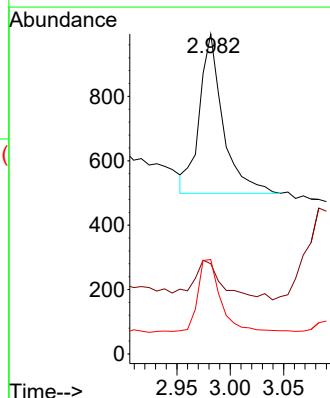
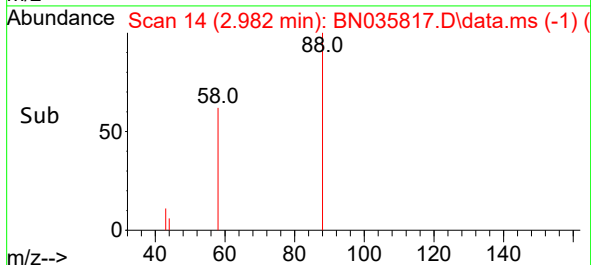
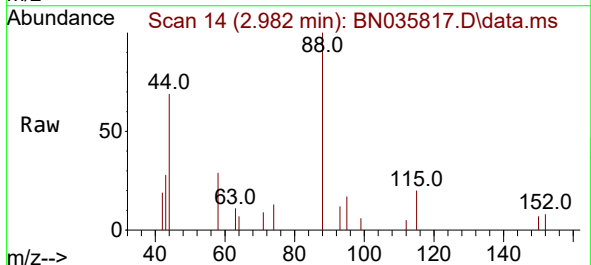


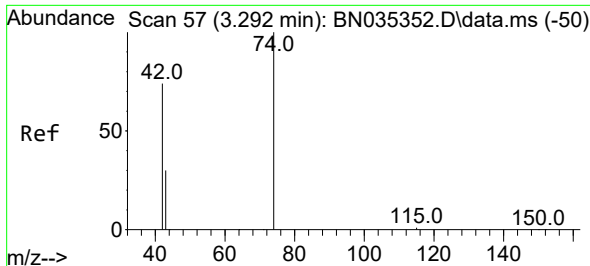
Tgt Ion:152 Resp: 2882
 Ion Ratio Lower Upper
 152 100
 150 148.9 124.0 186.0
 115 60.3 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.275 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035817.D
 Acq: 24 Dec 2024 12:33

Tgt Ion: 88 Resp: 759
 Ion Ratio Lower Upper
 88 100
 43 31.1 17.2 25.8#
 58 45.8 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.028 ng

RT: 3.220 min Scan# 41

Delta R.T. -0.058 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218

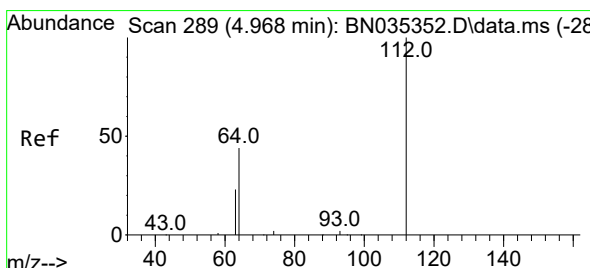
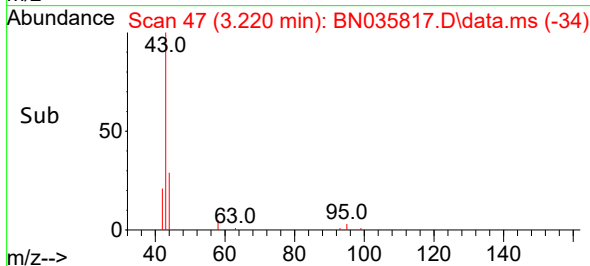
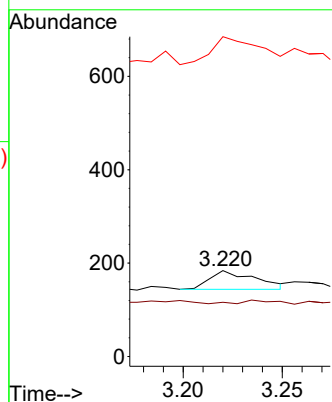
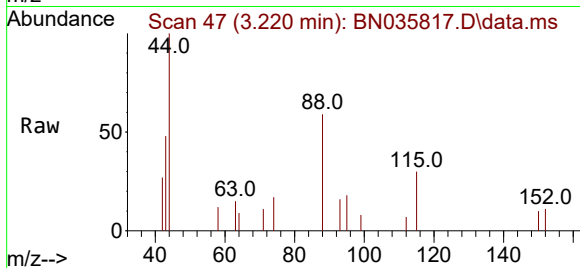
Tgt Ion: 42 Resp: 64

Ion Ratio Lower Upper

42 100

74 17.2 124.9 187.3#

44 159.4 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.113 ng

RT: 4.924 min Scan# 283

Delta R.T. -0.014 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

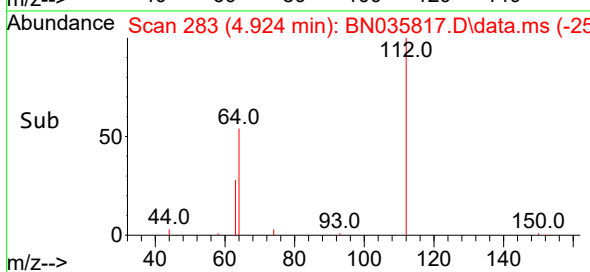
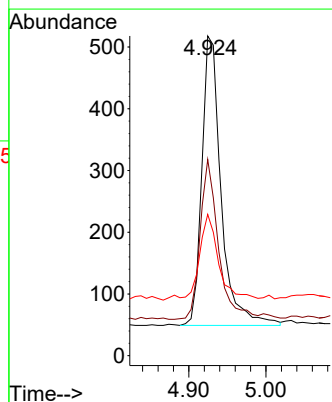
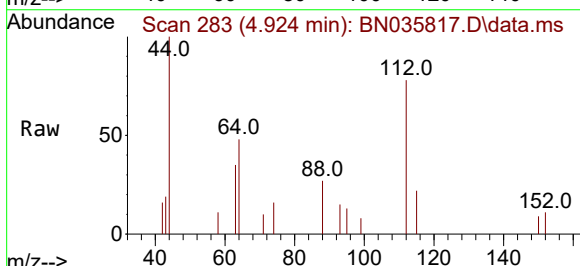
Tgt Ion: 112 Resp: 816

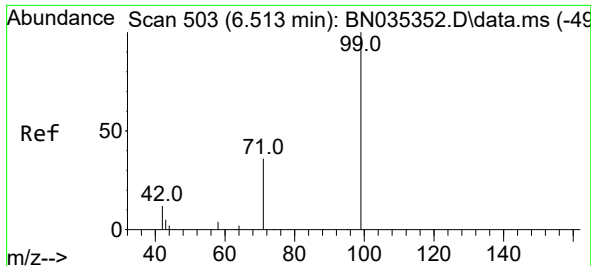
Ion Ratio Lower Upper

112 100

64 52.1 39.8 59.8

63 30.0 21.0 31.6

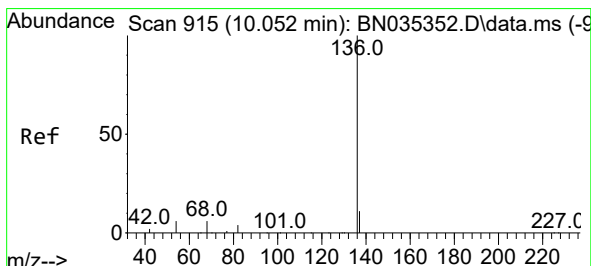
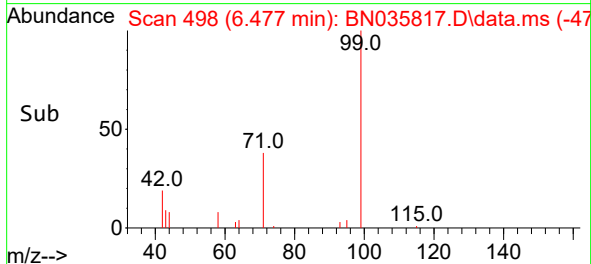
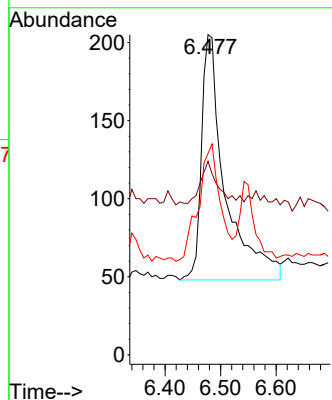
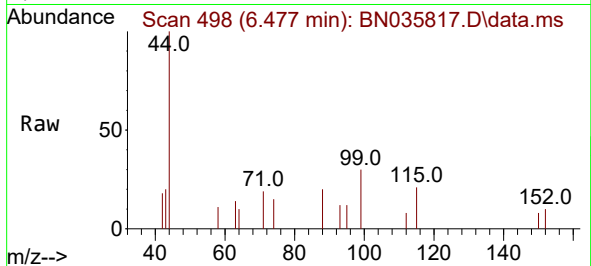




#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

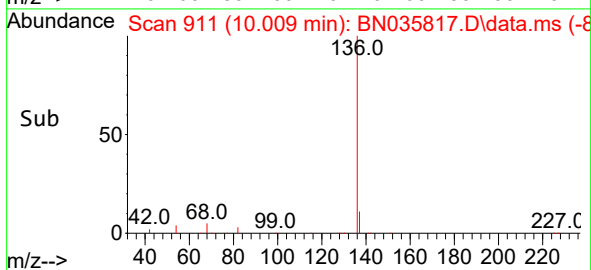
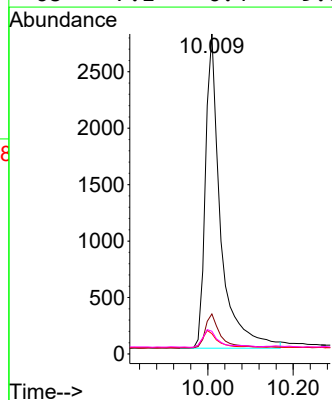
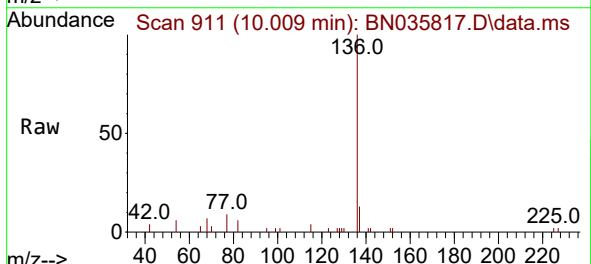
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

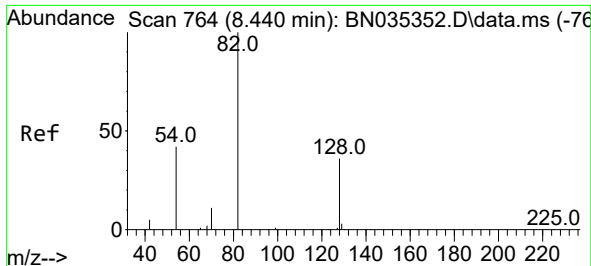
Tgt Ion:	99	Resp:	466
Ion	Ratio	Lower	Upper
99	100		
42	12.9	11.4	17.2
71	43.6	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:	136	Resp:	6877
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.3	6.1	9.1
68	7.1	6.4	9.6

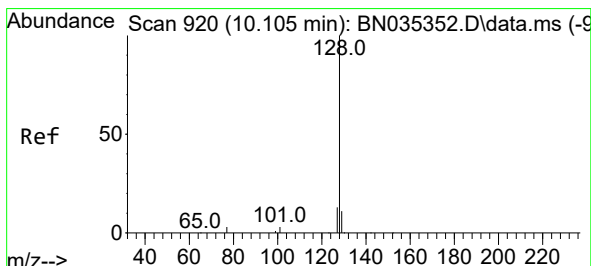
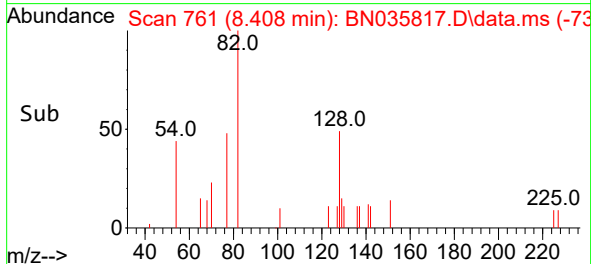
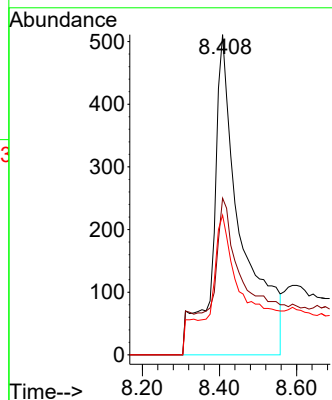
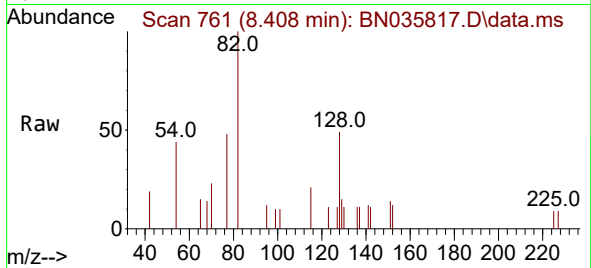




#8
Nitrobenzene-d5
Concen: 0.602 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

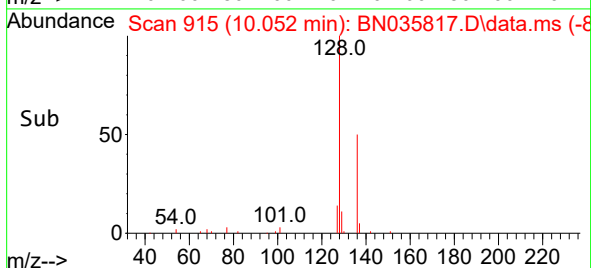
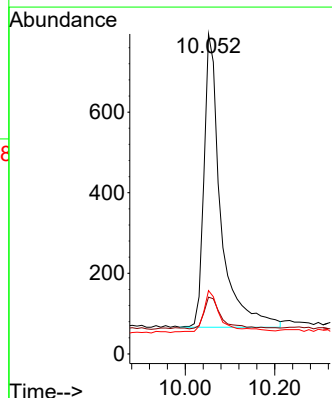
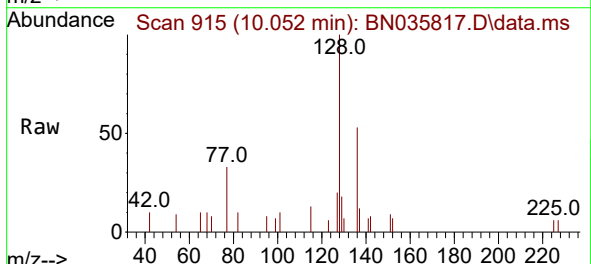
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BNA_N
ClientSampleId :
TT149S1-20241218

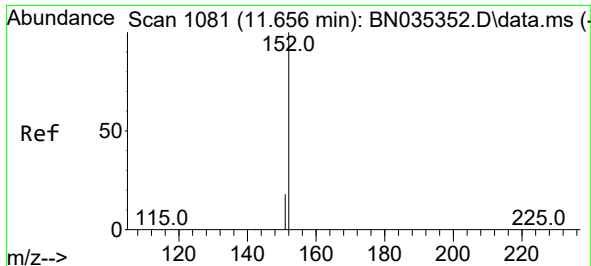
Tgt Ion: 82 Resp: 2530
Ion Ratio Lower Upper
82 100
128 48.9 33.4 50.0
54 43.6 36.7 55.1



#9
Naphthalene
Concen: 0.104 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 128 Resp: 1895
Ion Ratio Lower Upper
128 100
129 17.8 9.8 14.6#
127 19.8 11.4 17.2#

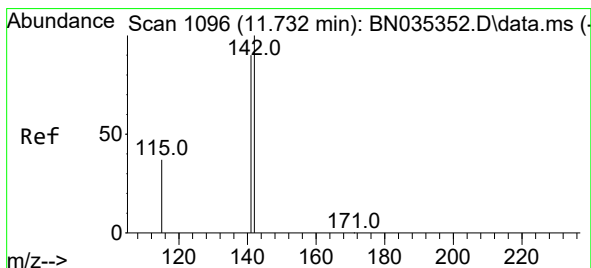
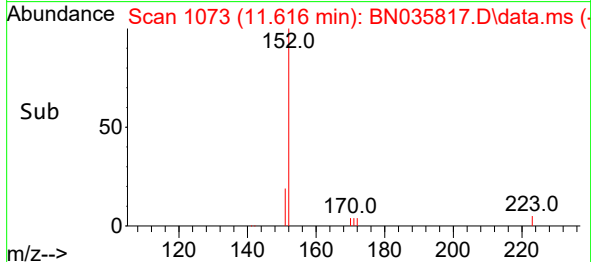
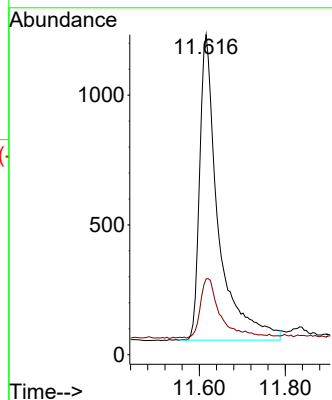
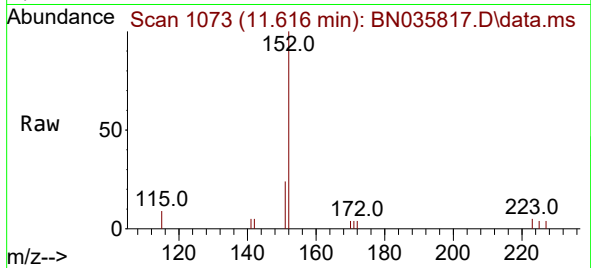




#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

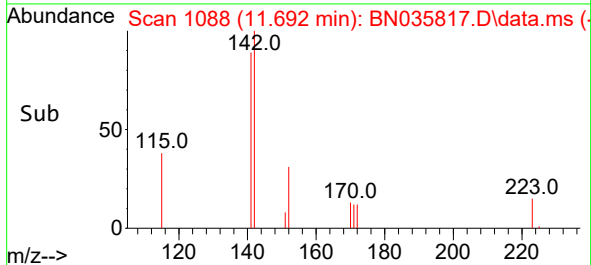
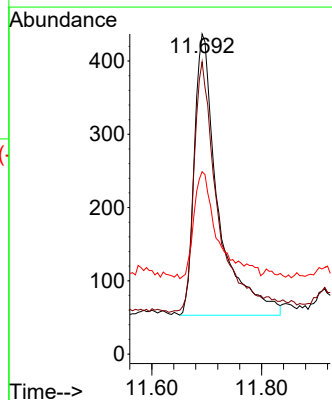
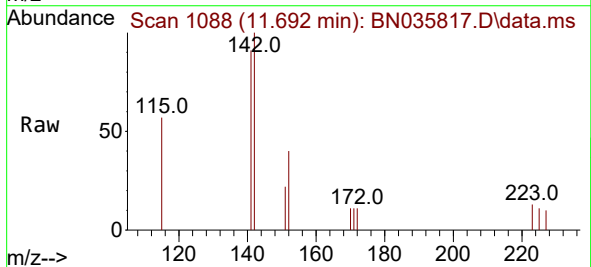
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

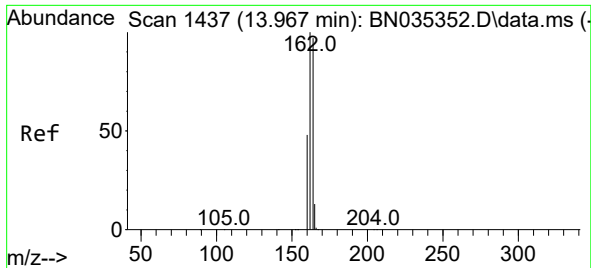
Tgt Ion:152 Resp: 3542
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:142 Resp: 1157
Ion Ratio Lower Upper
142 100
141 91.3 72.2 108.4
115 57.0 31.4 47.0#

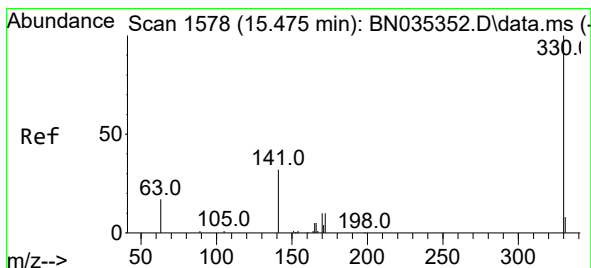
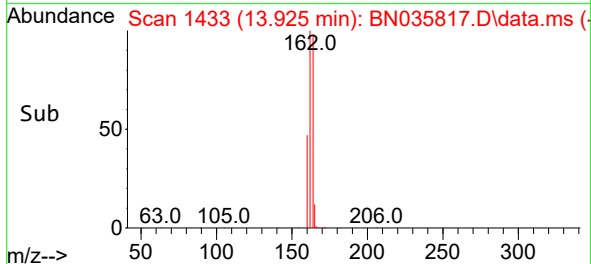
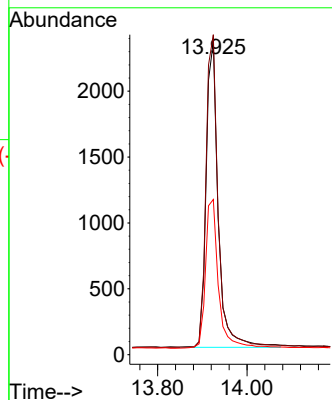
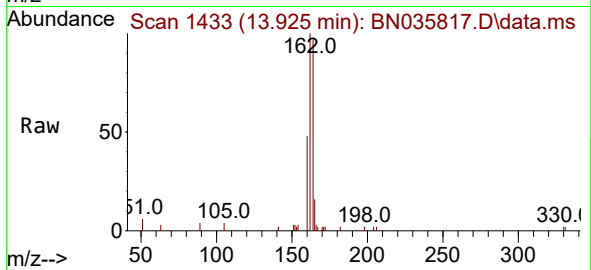




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

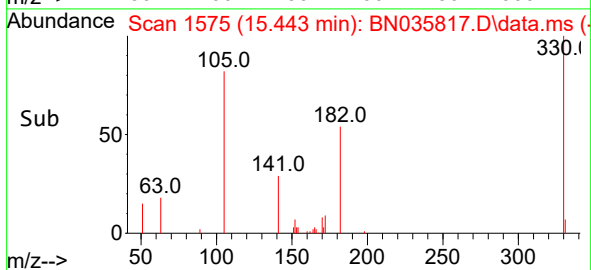
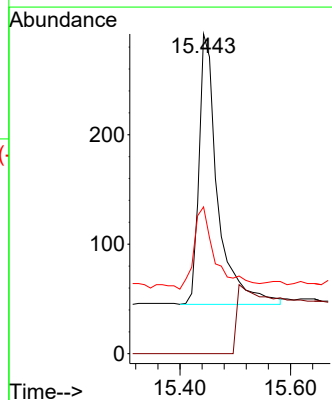
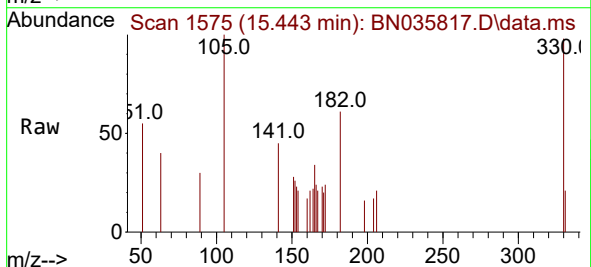
Instrument :
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TT149S1-20241218

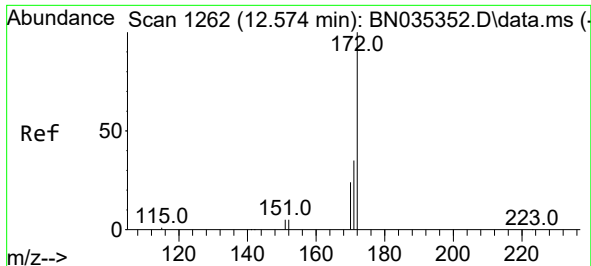
Tgt Ion:164 Resp: 4352
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 49.6 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:330 Resp: 609
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.3 26.6 40.0

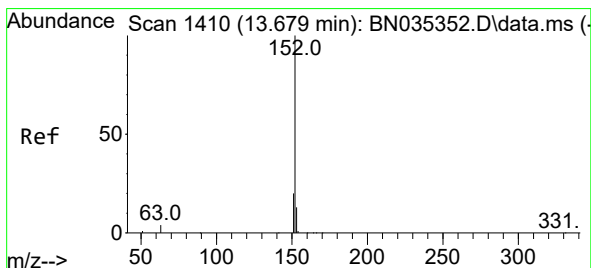
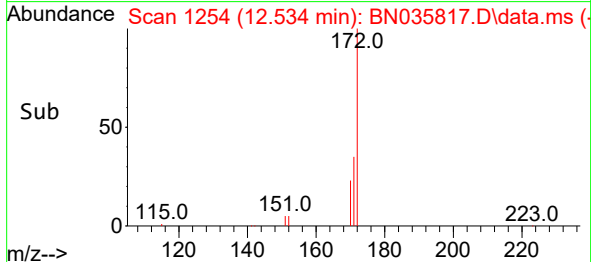
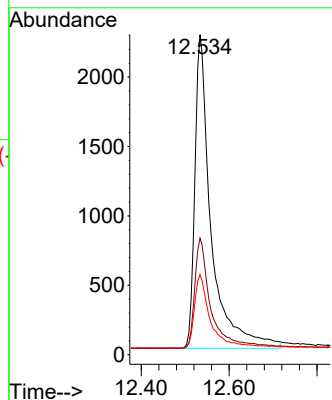
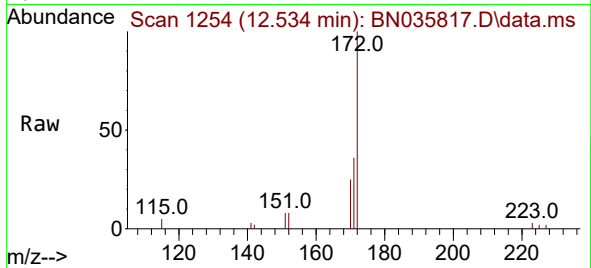




#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.534 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

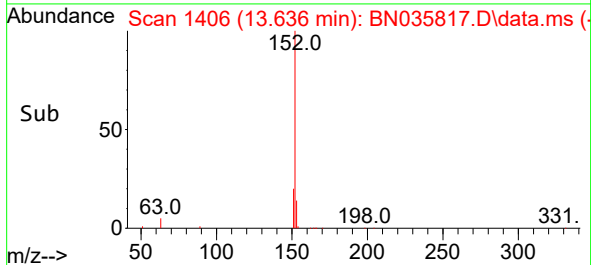
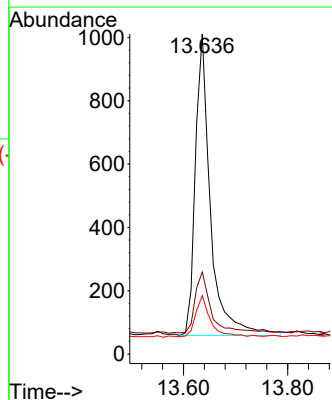
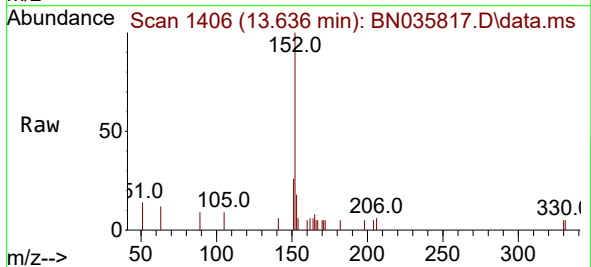
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ClientSampleId :
TT149S1-20241218

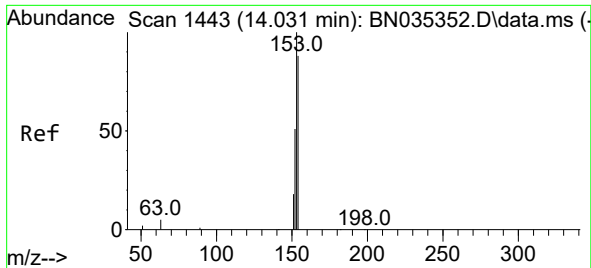
Tgt Ion:	172	Resp:	5853
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.0	43.4
170	25.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.105 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:	152	Resp:	1924
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.2	24.2
153	14.4	10.4	15.6

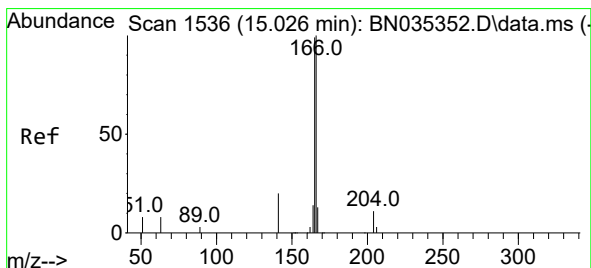
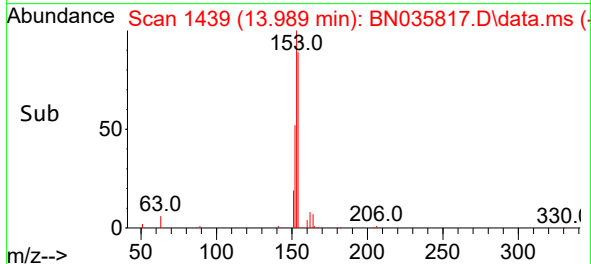
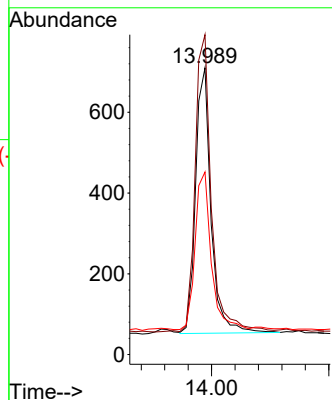
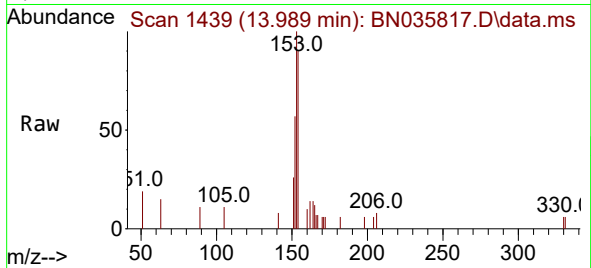




#17
Acenaphthene
Concen: 0.099 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

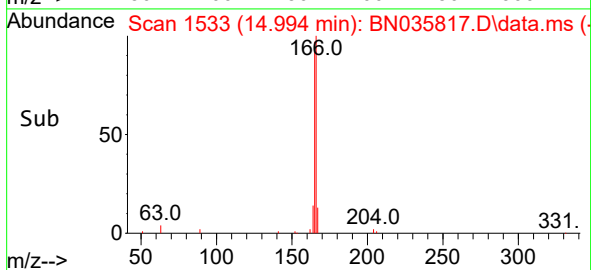
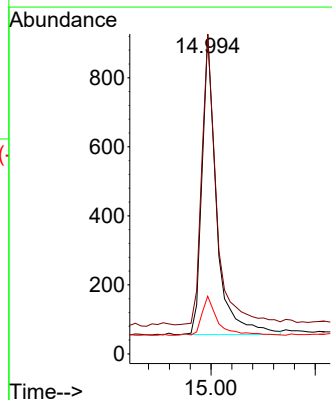
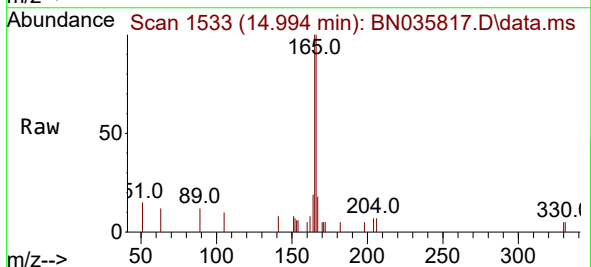
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

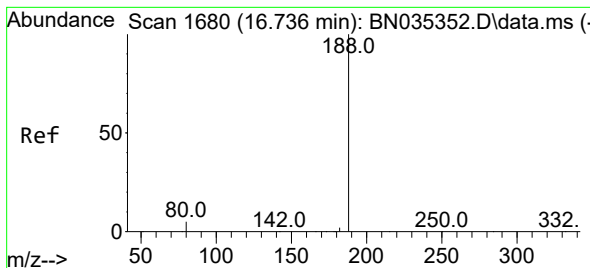
Tgt Ion:154 Resp: 1204
Ion Ratio Lower Upper
154 100
153 117.5 92.6 139.0
152 62.0 49.0 73.6



#18
Fluorene
Concen: 0.097 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:166 Resp: 1680
Ion Ratio Lower Upper
166 100
165 99.0 79.7 119.5
167 14.3 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: BN035817.D

Acq: 24 Dec 2024 12:33

Instrument :

BNA_N

ClientSampleId :

TT149S1-20241218

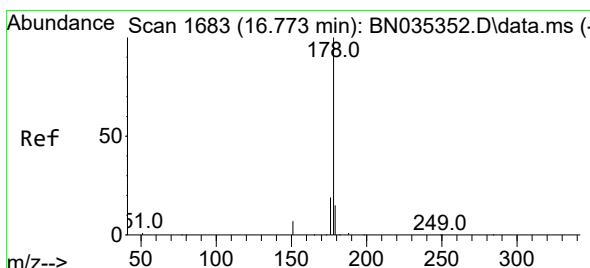
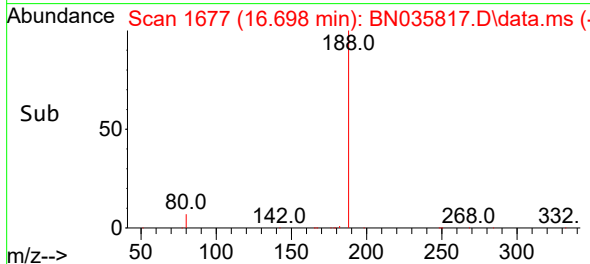
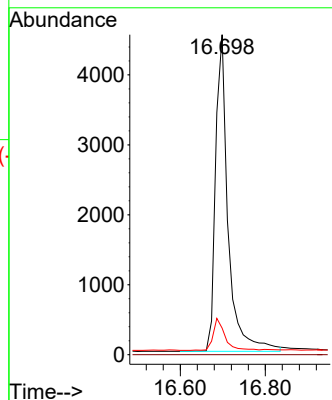
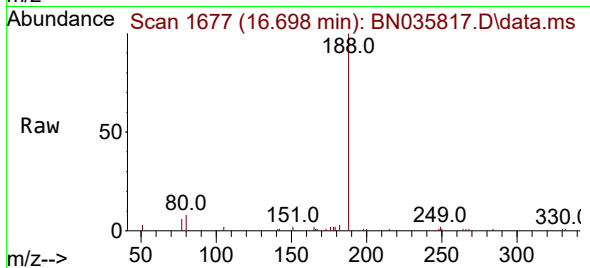
Tgt Ion:188 Resp: 9250

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 4.6 6.8#



#25

Phenanthrene

Concen: 0.127 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.012 min

Lab File: BN035817.D

Acq: 24 Dec 2024 12:33

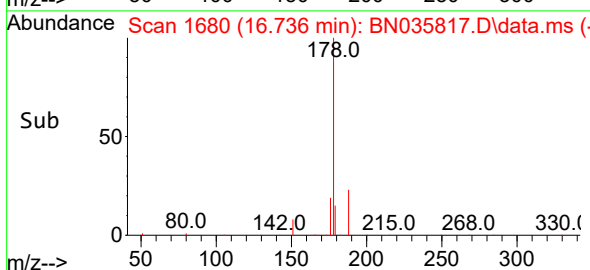
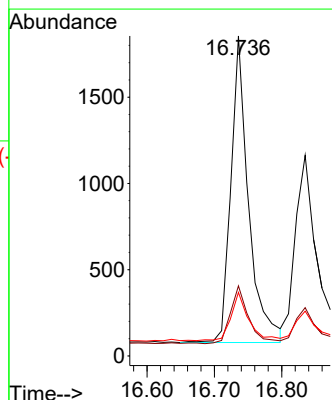
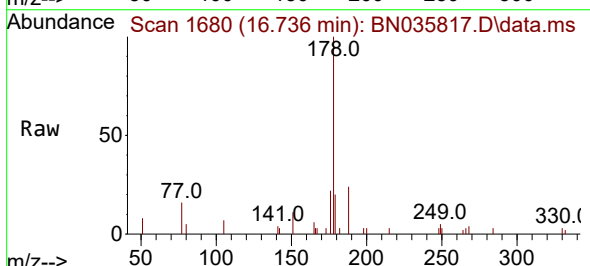
Tgt Ion:178 Resp: 3237

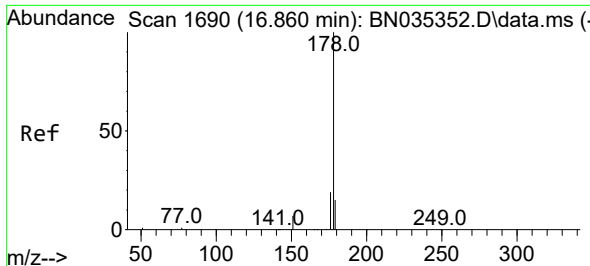
Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.6 12.3 18.5

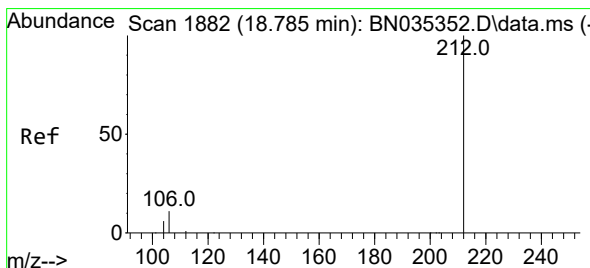
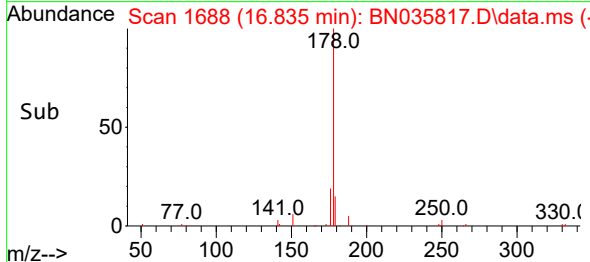
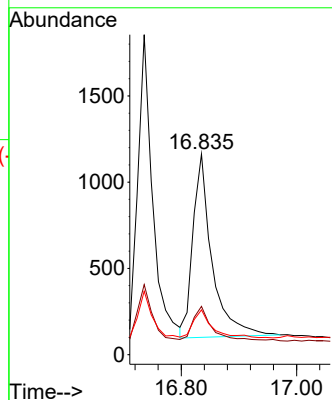
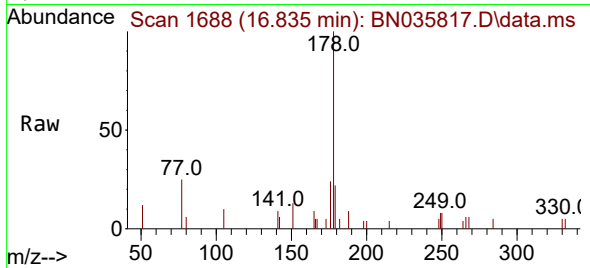




#26
 Anthracene
 Concen: 0.106 ng
 RT: 16.835 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: BN035817.D
 Acq: 24 Dec 2024 12:33

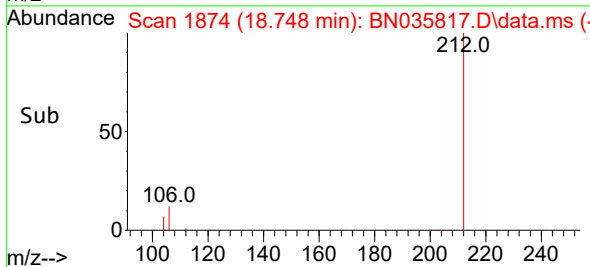
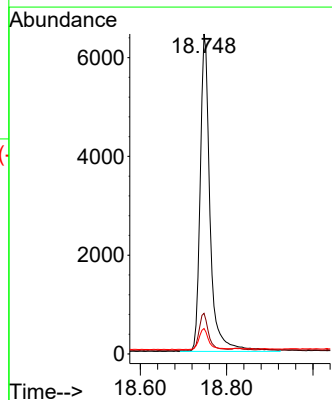
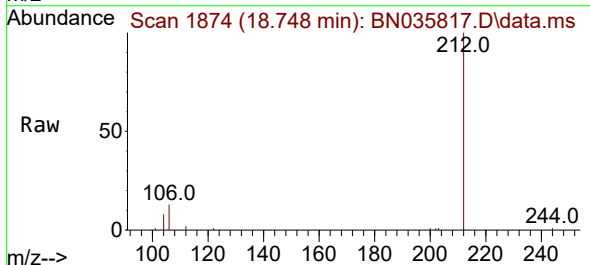
Instrument :
 BNA_N
 ClientSampleId :
 TT149S1-20241218

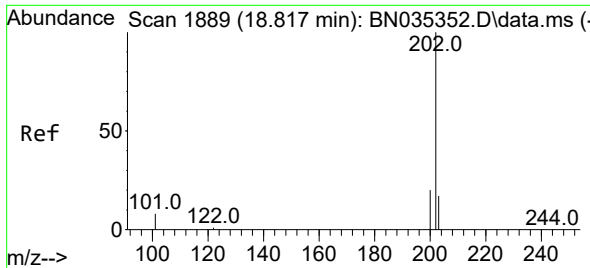
Tgt Ion:178 Resp: 2442
 Ion Ratio Lower Upper
 178 100
 176 20.4 15.0 22.6
 179 16.1 12.6 18.8



#27
 Fluoranthene-d10
 Concen: 0.390 ng
 RT: 18.748 min Scan# 1874
 Delta R.T. -0.014 min
 Lab File: BN035817.D
 Acq: 24 Dec 2024 12:33

Tgt Ion:212 Resp: 10238
 Ion Ratio Lower Upper
 212 100
 106 11.4 9.2 13.8
 104 6.4 5.3 7.9

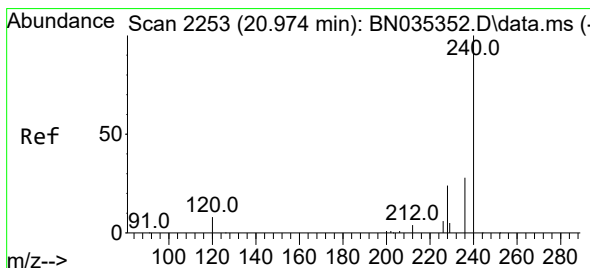
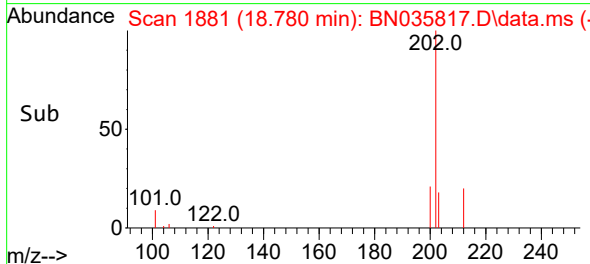
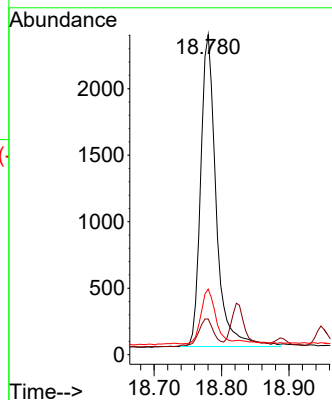
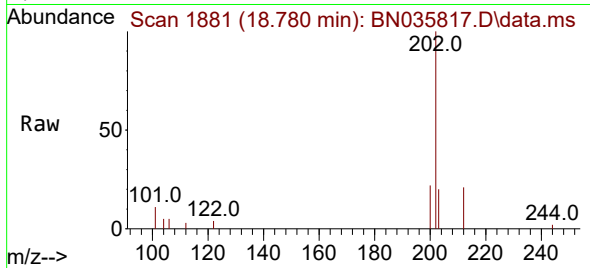




#28
Fluoranthene
Concen: 0.109 ng
RT: 18.780 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

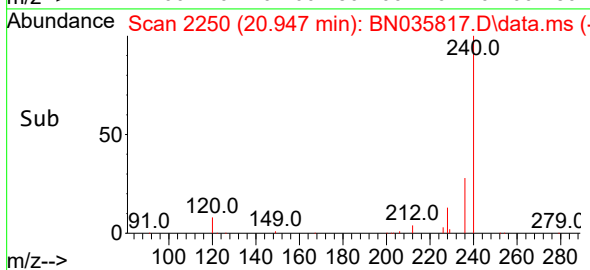
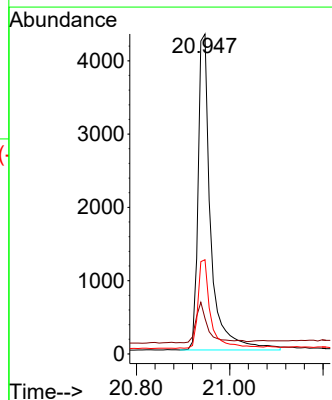
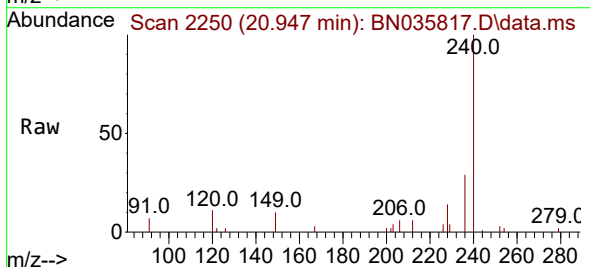
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

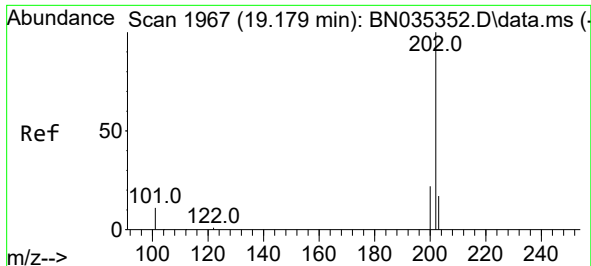
Tgt Ion:202 Resp: 3731
Ion Ratio Lower Upper
202 100
101 8.9 7.4 11.0
203 16.6 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:240 Resp: 8129
Ion Ratio Lower Upper
240 100
120 11.1 7.9 11.9
236 29.4 22.9 34.3

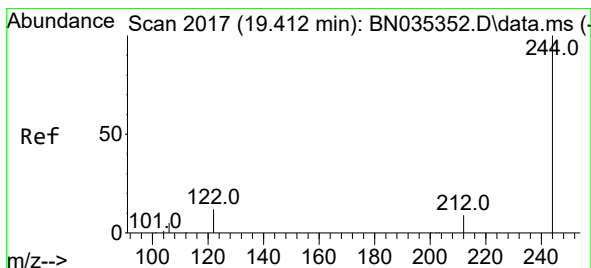
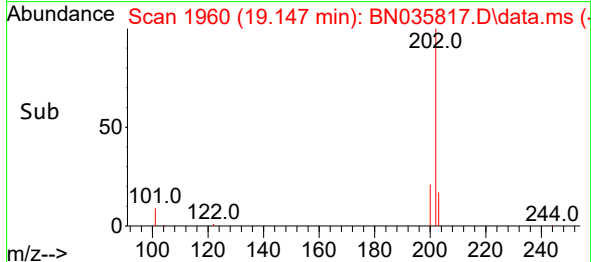
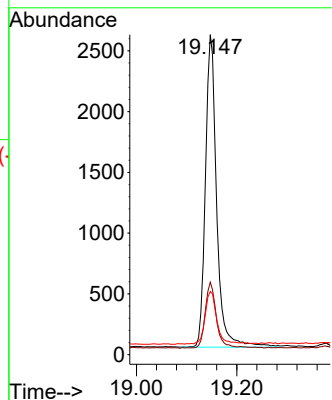
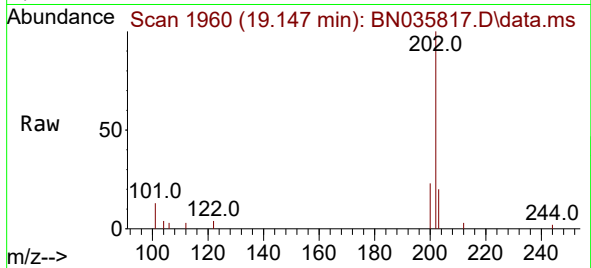




#30
Pyrene
Concen: 0.133 ng
RT: 19.147 min Scan# 1967
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

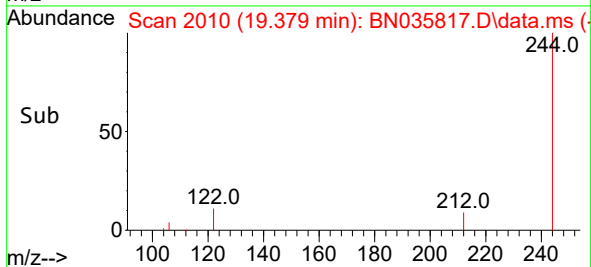
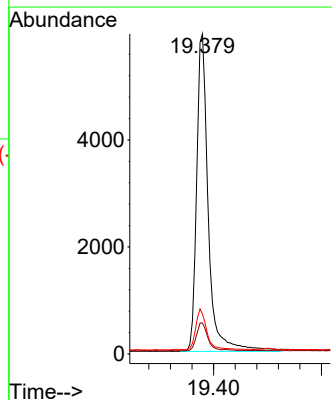
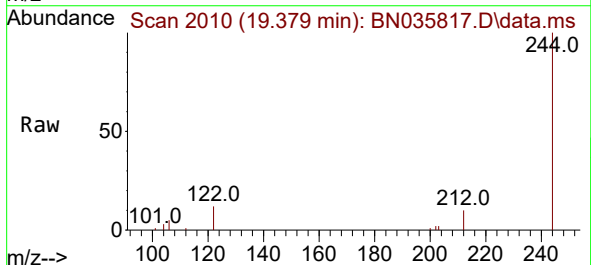
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

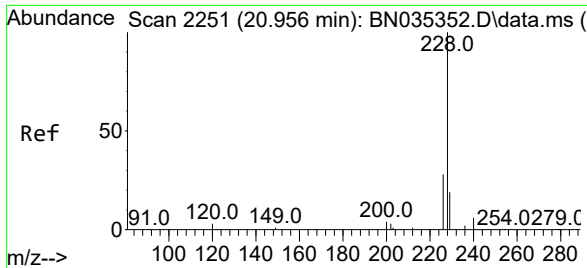
Tgt Ion:202 Resp: 4005
Ion Ratio Lower Upper
202 100
200 20.6 17.0 25.4
203 17.4 14.3 21.5



#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:244 Resp: 8867
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5

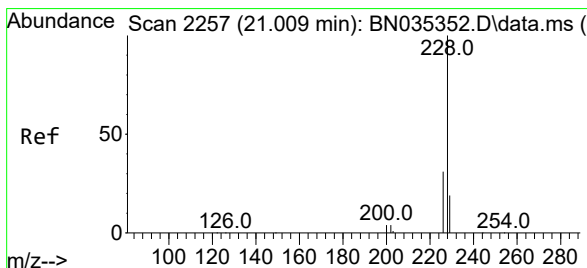
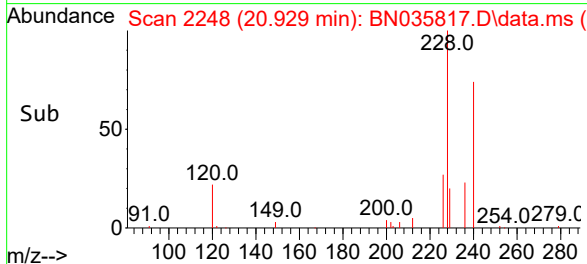
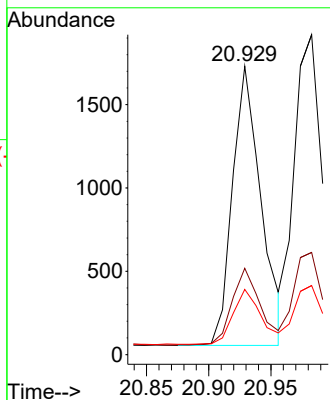
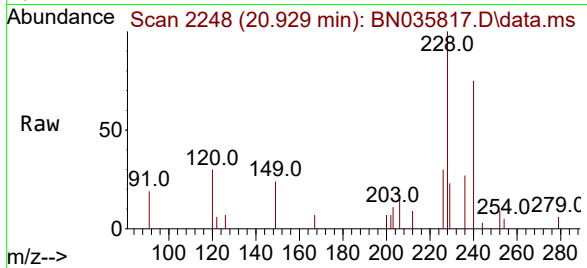




#32
Benzo(a)anthracene
Concen: 0.094 ng
RT: 20.929 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

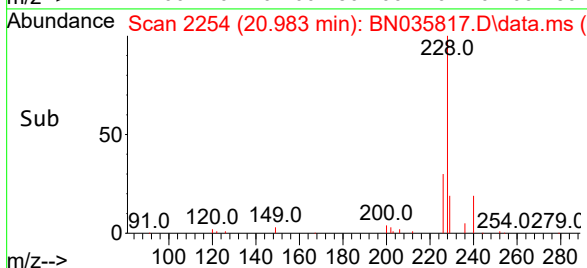
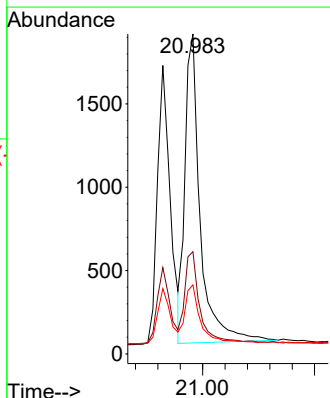
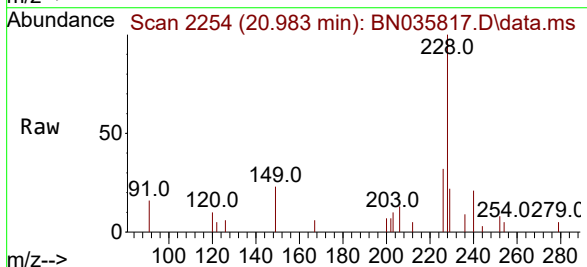
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

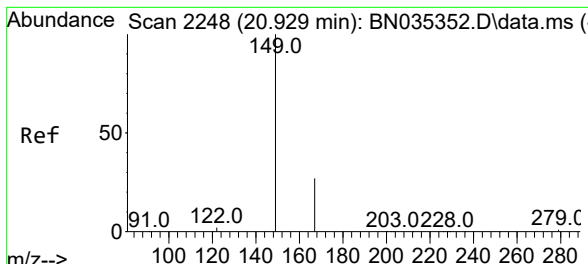
Tgt Ion:228 Resp: 2676
Ion Ratio Lower Upper
228 100
226 29.9 22.5 33.7
229 22.6 15.8 23.8



#33
Chrysene
Concen: 0.119 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 3497
Ion Ratio Lower Upper
228 100
226 31.9 24.6 37.0
229 21.6 15.9 23.9

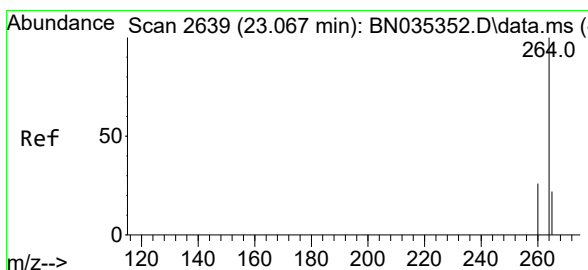
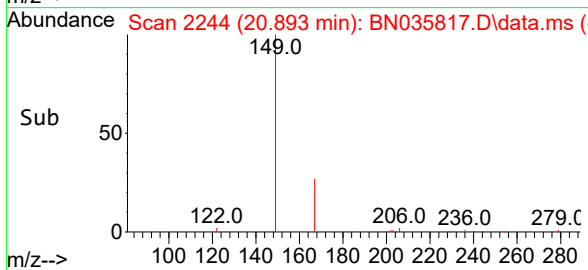
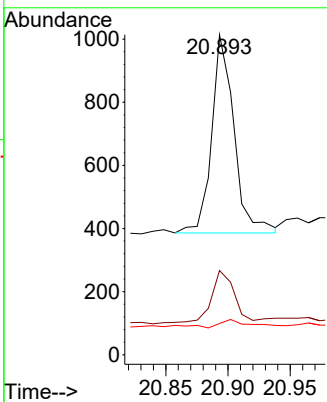
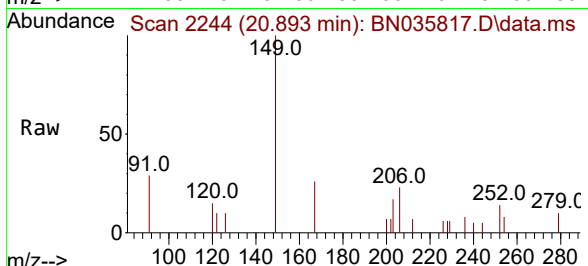




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.070 ng
 RT: 20.893 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BN035817.D
 Acq: 24 Dec 2024 12:33

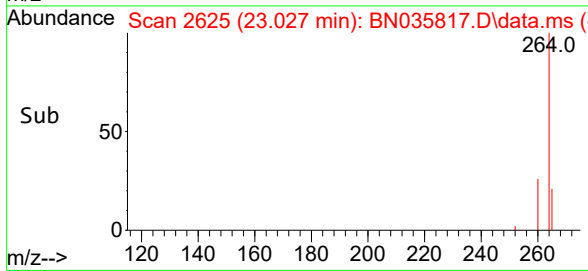
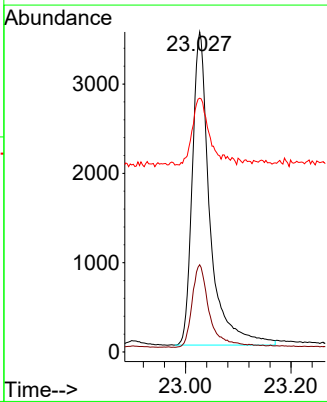
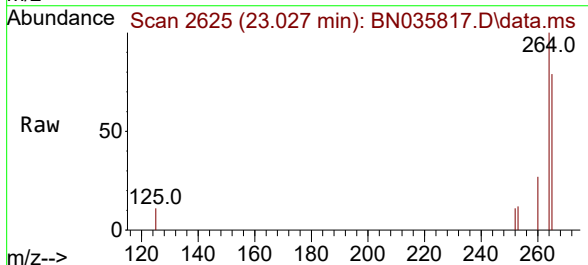
Instrument :
 BNA_N
 ClientSampleId :
 TT149S1-20241218

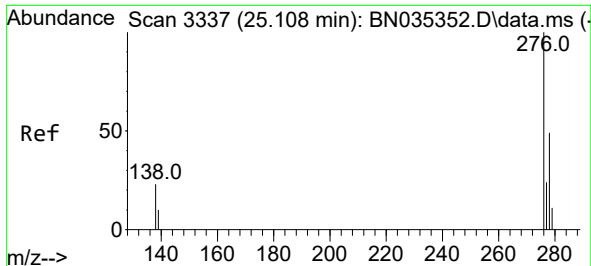
Tgt Ion:	149	Resp:	786
Ion Ratio	Lower	Upper	
149	100		
167	27.0	22.2	33.4
279	6.1	2.7	4.1#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.027 min Scan# 2625
 Delta R.T. -0.015 min
 Lab File: BN035817.D
 Acq: 24 Dec 2024 12:33

Tgt Ion:	264	Resp:	8126
Ion Ratio	Lower	Upper	
264	100		
260	27.2	21.4	32.2
265	79.3	40.2	60.4#

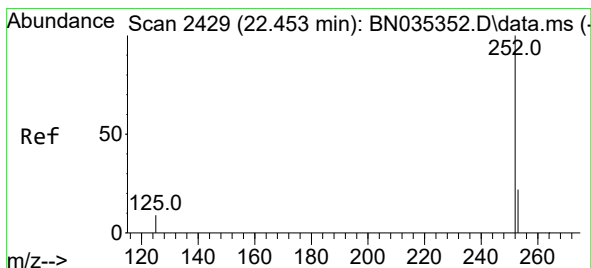
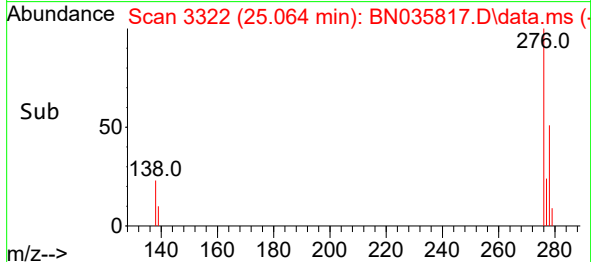
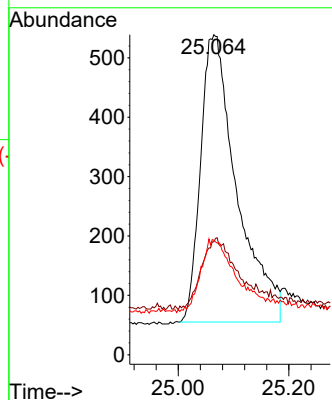
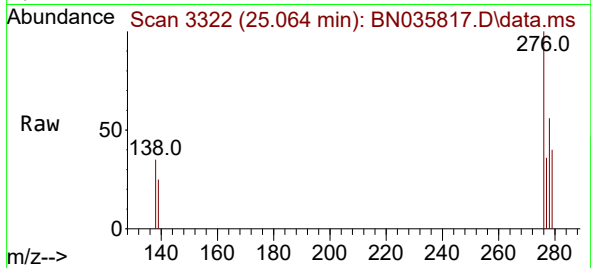




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 25.064 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

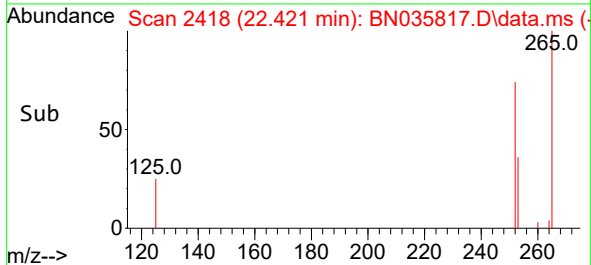
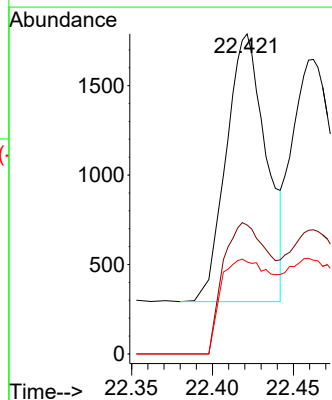
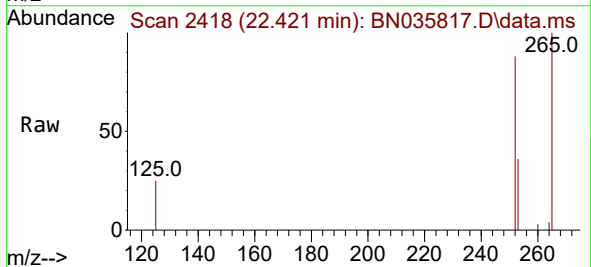
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

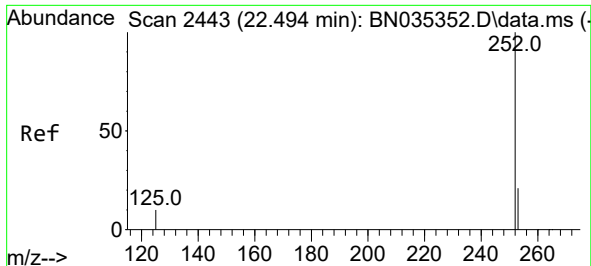
Tgt Ion:276 Resp: 2211
Ion Ratio Lower Upper
276 100
138 23.7 19.4 29.0
277 25.1 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 0.113 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

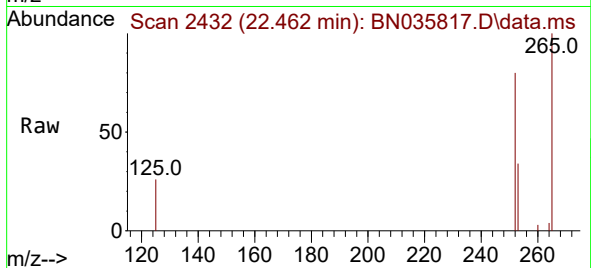
Tgt Ion:252 Resp: 3364
Ion Ratio Lower Upper
252 100
253 40.3 19.6 29.4#
125 28.7 9.6 14.4#



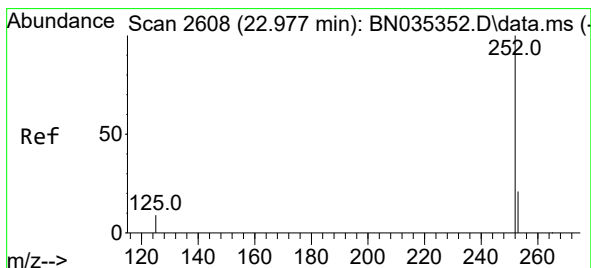
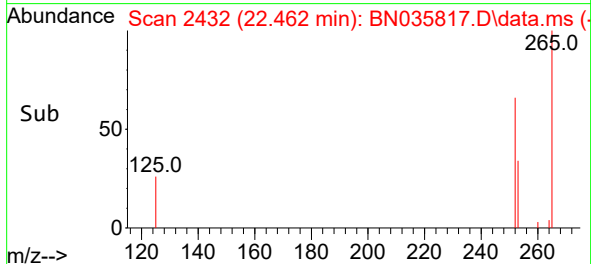
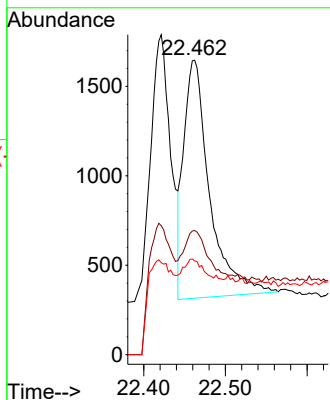


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2443
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

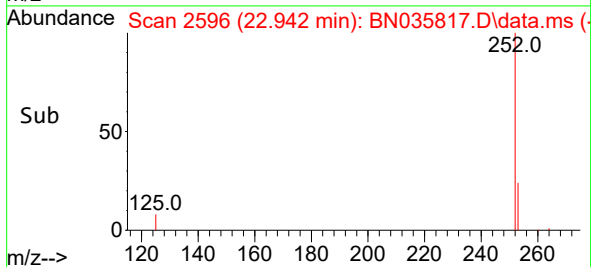
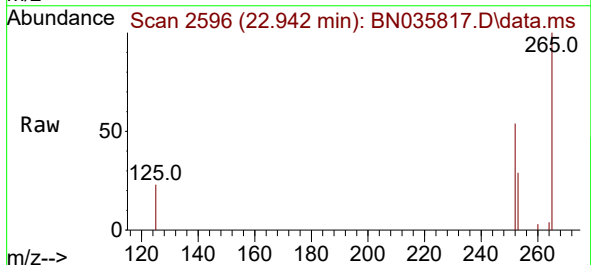
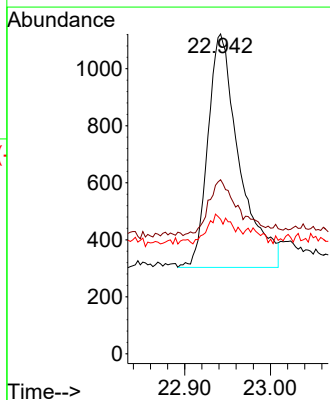


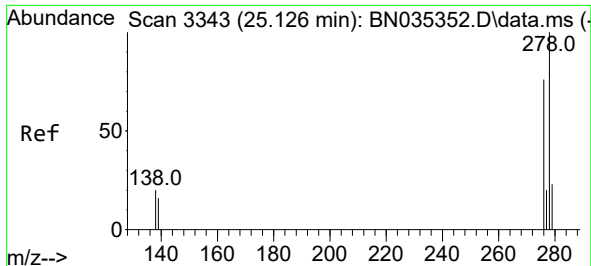
Tgt Ion:252 Resp: 2940
Ion Ratio Lower Upper
252 100
253 42.1 19.5 29.3#
125 31.8 10.2 15.4#



#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.942 min Scan# 2596
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 2085
Ion Ratio Lower Upper
252 100
253 54.5 20.2 30.4#
125 42.1 10.9 16.3#

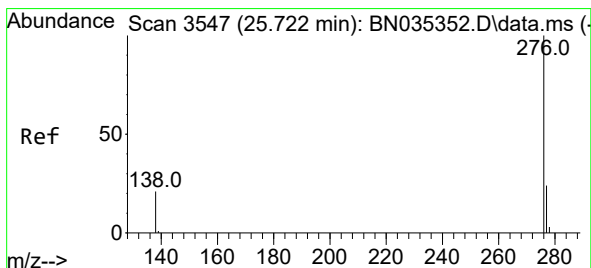
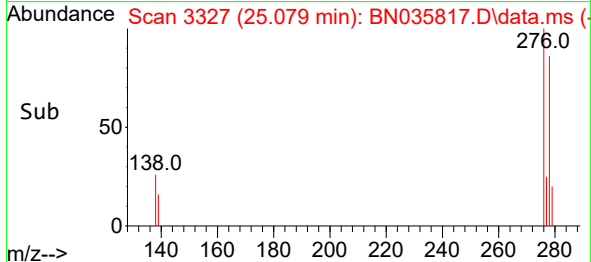
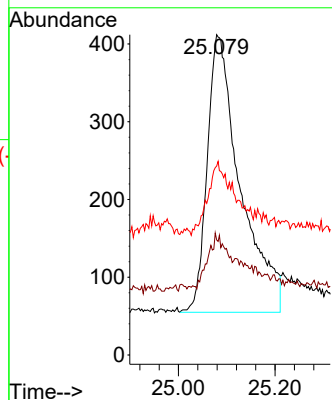
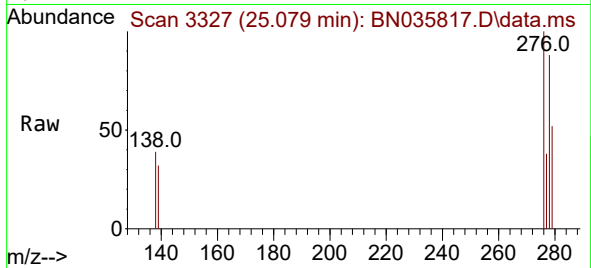




#40
Dibenzo(a,h)anthracene
Concen: 0.068 ng
RT: 25.079 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

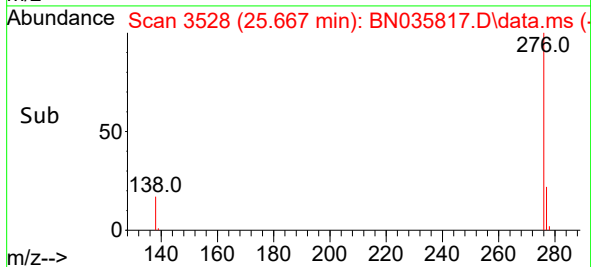
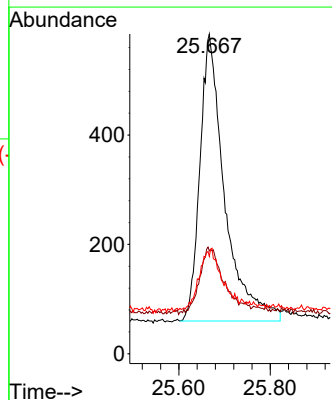
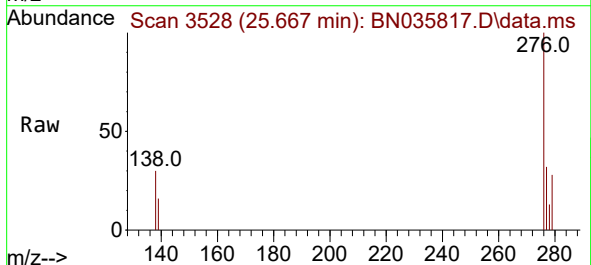
Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:278 Resp: 1701
Ion Ratio Lower Upper
278 100
139 35.9 14.2 21.4#
279 59.0 20.5 30.7#



#41
Benzo(g,h,i)perylene
Concen: 0.075 ng
RT: 25.667 min Scan# 3528
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 1967
Ion Ratio Lower Upper
276 100
277 32.1 19.9 29.9#
138 30.4 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035818.D
 Acq On : 24 Dec 2024 13:08
 Operator : RC/JU
 Sample : P5376-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP-07-20241218

Quant Time: Dec 24 23:18:00 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

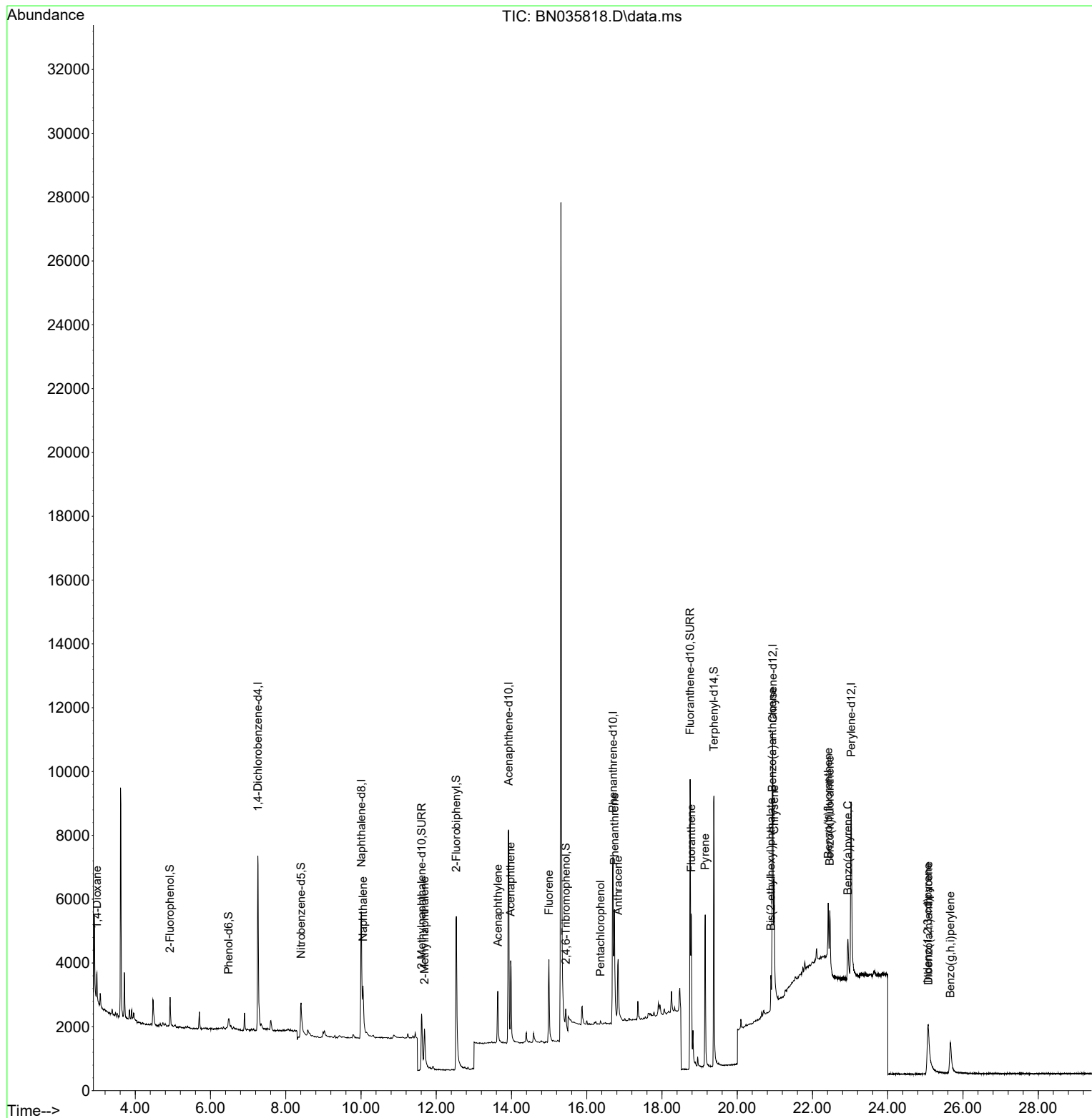
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3045	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7417	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	4769	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10054	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8730	0.400	ng	0.00
35) Perylene-d12	23.026	264	8948	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	828	0.109	ng	-0.01
5) Phenol-d6	6.477	99	491	0.054	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1989	0.439	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4011	0.346	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	736	0.217	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	6868	0.381	ng	-0.01
27) Fluoranthene-d10	18.747	212	11709	0.411	ng	-0.01
31) Terphenyl-d14	19.379	244	9932	0.577	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	761	0.261	ng	89
9) Naphthalene	10.052	128	2140	0.109	ng	# 90
12) 2-Methylnaphthalene	11.687	142	1347	0.096	ng	# 92
16) Acenaphthylene	13.636	152	2222	0.111	ng	98
17) Acenaphthene	13.978	154	1464	0.110	ng	99
18) Fluorene	14.994	166	2023	0.106	ng	99
24) Pentachlorophenol	16.363	266	64	0.021	ng	# 69
25) Phenanthrene	16.736	178	3999	0.145	ng	98
26) Anthracene	16.835	178	3041	0.122	ng	99
28) Fluoranthene	18.780	202	4605	0.124	ng	98
30) Pyrene	19.147	202	4782	0.148	ng	99
32) Benzo(a)anthracene	20.929	228	3217	0.105	ng	95
33) Chrysene	20.983	228	4153	0.132	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1111	0.092	ng	99
36) Indeno(1,2,3-cd)pyrene	25.064	276	2885	0.082	ng	97
37) Benzo(b)fluoranthene	22.418	252	5898	0.180	ng	# 67
38) Benzo(k)fluoranthene	22.459	252	3643	0.113	ng	# 65
39) Benzo(a)pyrene	22.942	252	2686	0.100	ng	# 49
40) Dibenzo(a,h)anthracene	25.085	278	2103	0.076	ng	# 58
41) Benzo(g,h,i)perylene	25.667	276	2516	0.087	ng	# 83

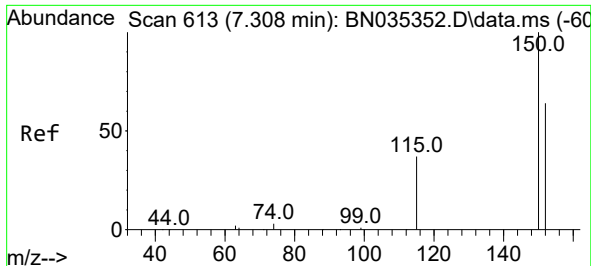
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

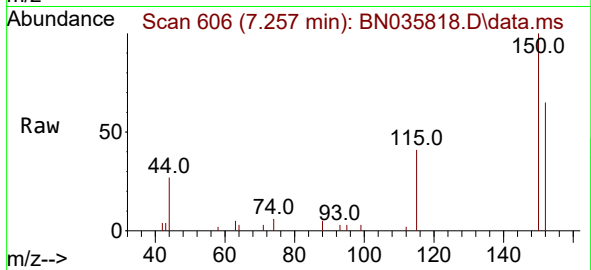
Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



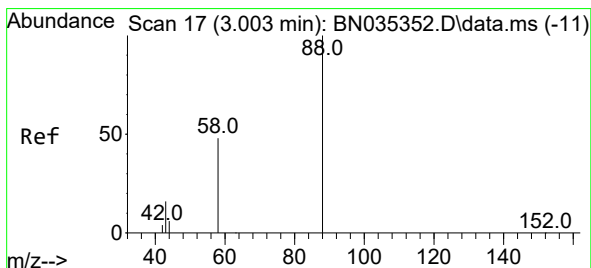
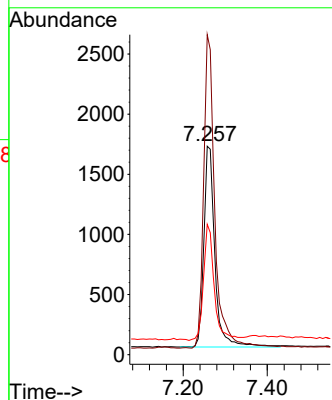
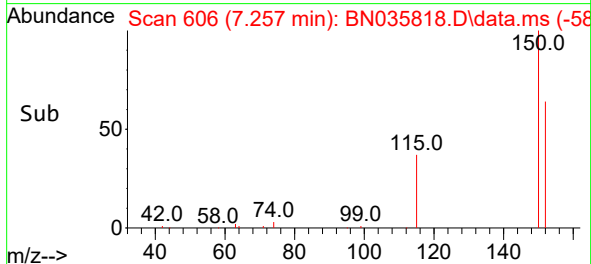


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

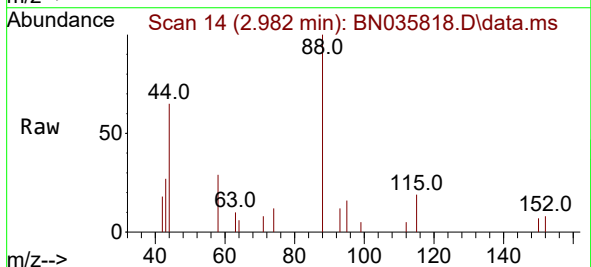
Instrument :
 BNA_N
 ClientSampleId :
 DUP-07-20241218



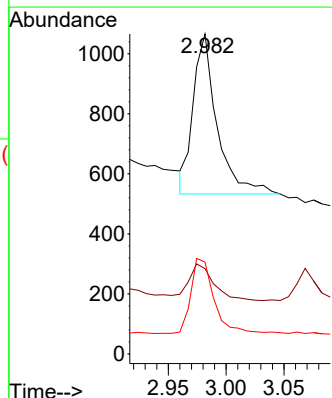
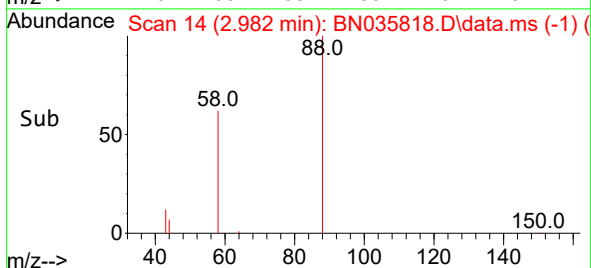
Tgt Ion:152 Resp: 3045
 Ion Ratio Lower Upper
 152 100
 150 153.5 124.0 186.0
 115 62.5 49.6 74.4

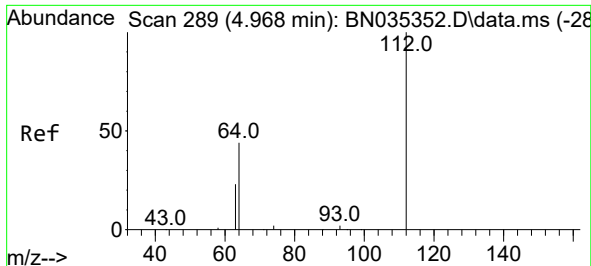


#2
 1,4-Dioxane
 Concen: 0.261 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08



Tgt Ion: 88 Resp: 761
 Ion Ratio Lower Upper
 88 100
 43 24.3 17.2 25.8
 58 45.9 44.5 66.7

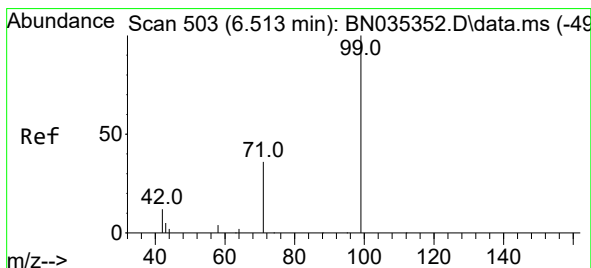
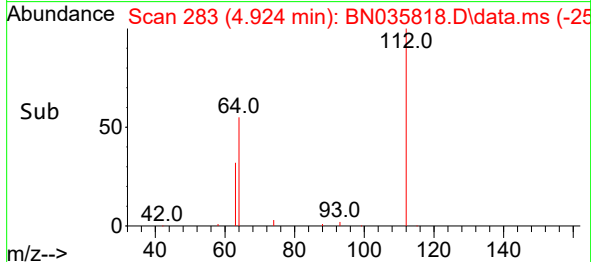
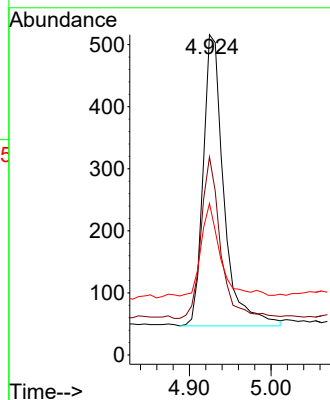
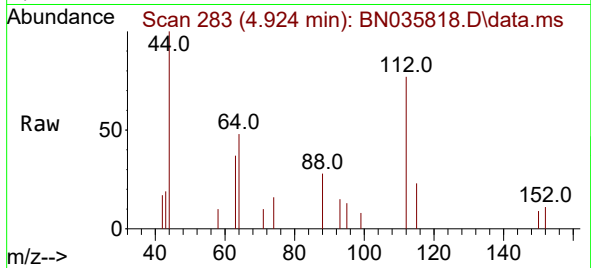




#4
2-Fluorophenol
Concen: 0.109 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

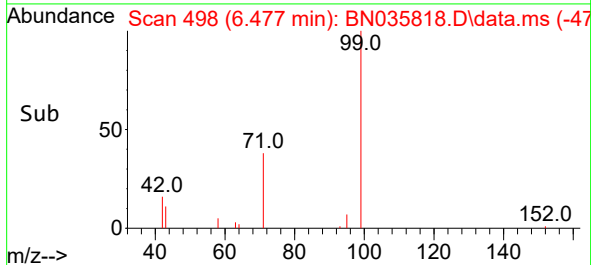
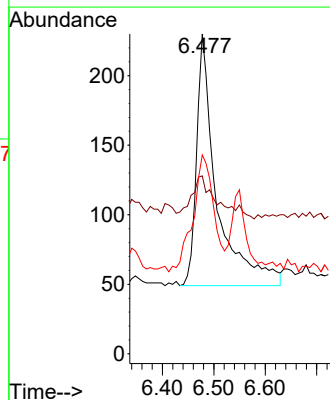
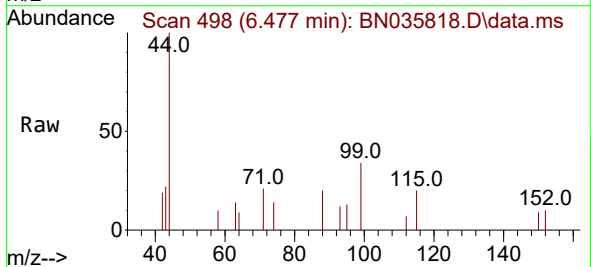
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

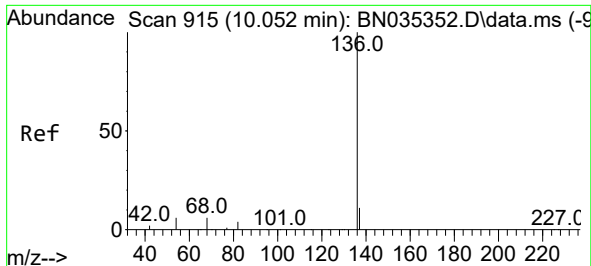
Tgt Ion:	112	Resp:	828
Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	31.0	21.0	31.6



#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:	99	Resp:	491
Ion	Ratio	Lower	Upper
99	100		
42	23.8	11.4	17.2#
71	47.9	29.3	43.9#

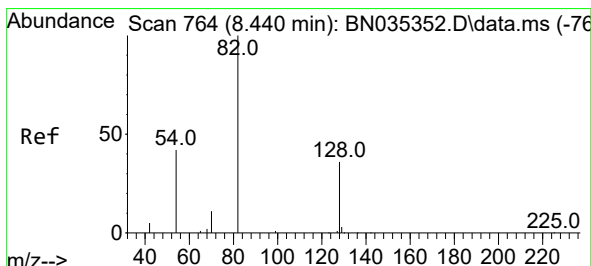
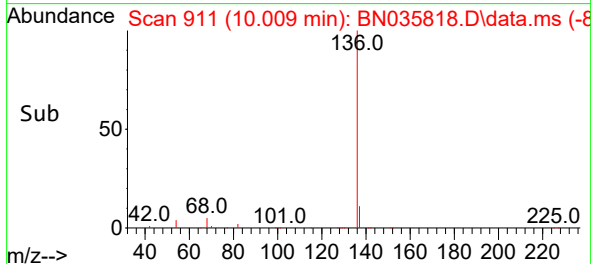
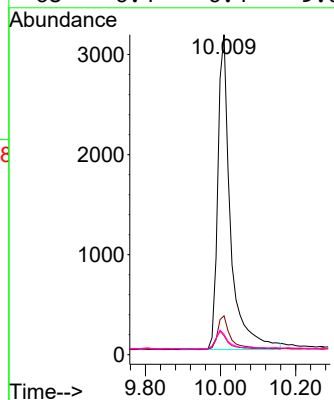
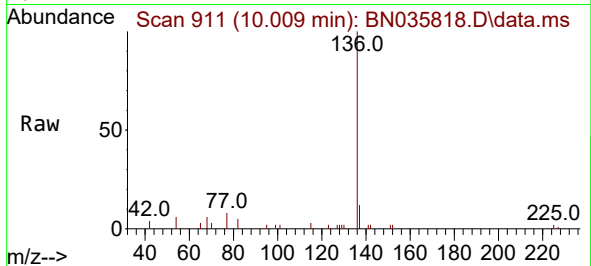




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

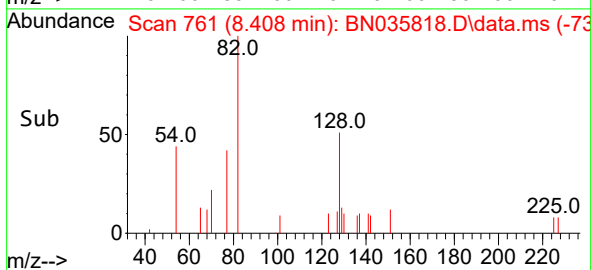
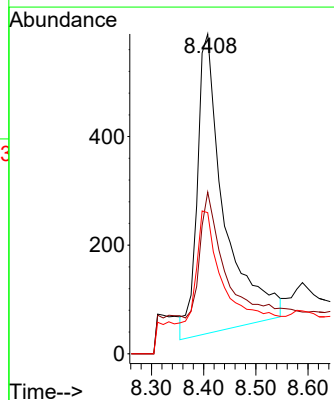
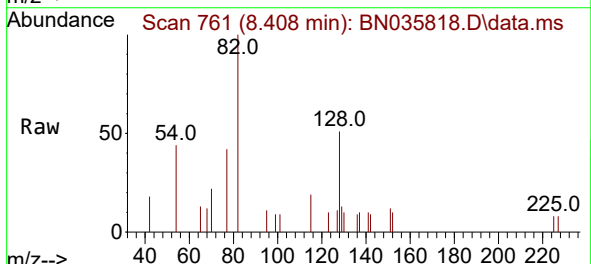
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

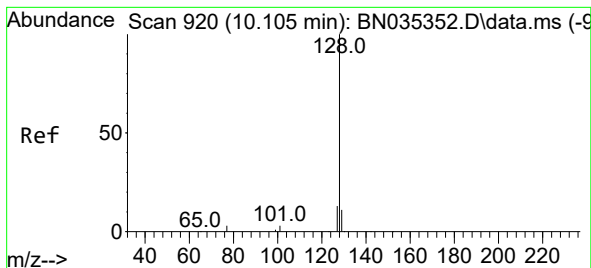
Tgt Ion:	136	Resp:	7417
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	5.9	6.1	9.1#
68	6.4	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.439 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:	82	Resp:	1989
Ion	Ratio	Lower	Upper
82	100		
128	50.6	33.4	50.0#
54	44.1	36.7	55.1





#9

Naphthalene

Concen: 0.109 ng

RT: 10.052 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218

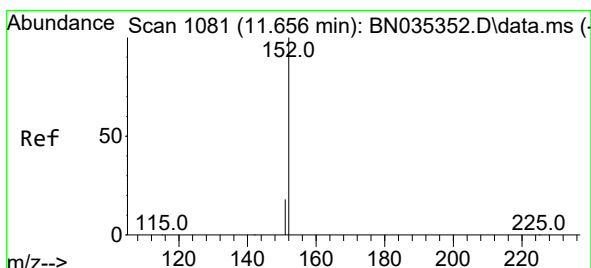
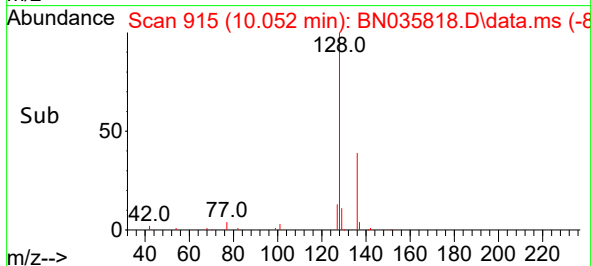
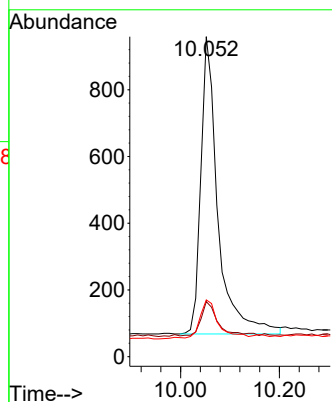
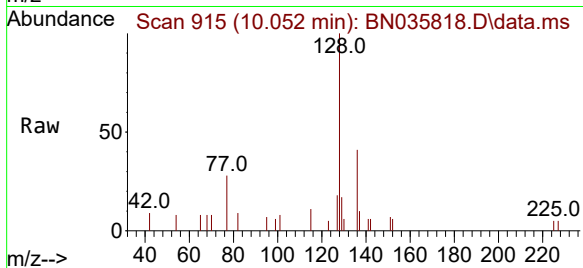
Tgt Ion:128 Resp: 2140

Ion Ratio Lower Upper

128 100

129 17.2 9.8 14.6#

127 17.7 11.4 17.2#



#11

2-Methylnaphthalene-d10

Concen: 0.346 ng

RT: 11.611 min Scan# 1072

Delta R.T. -0.010 min

Lab File: BN035818.D

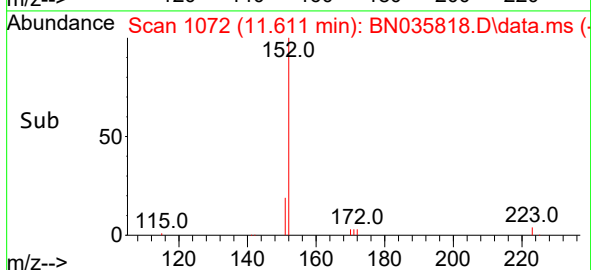
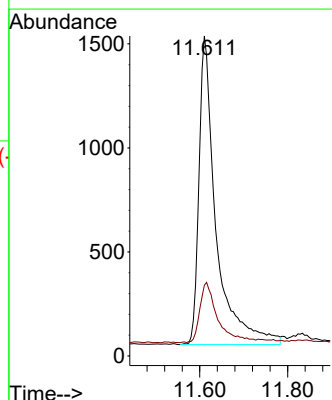
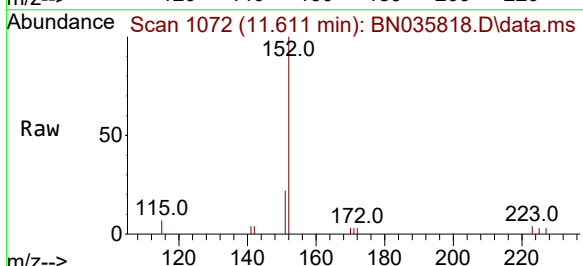
Acq: 24 Dec 2024 13:08

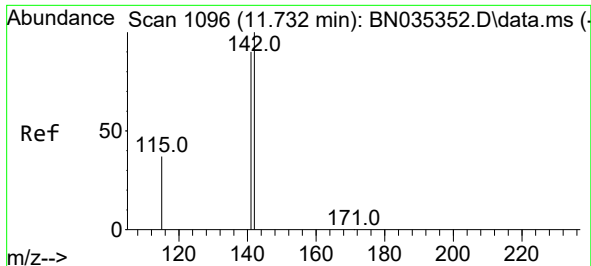
Tgt Ion:152 Resp: 4011

Ion Ratio Lower Upper

152 100

151 20.3 16.6 25.0

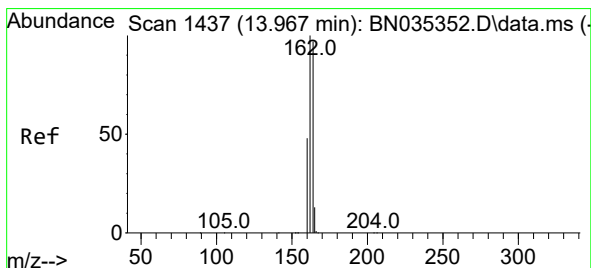
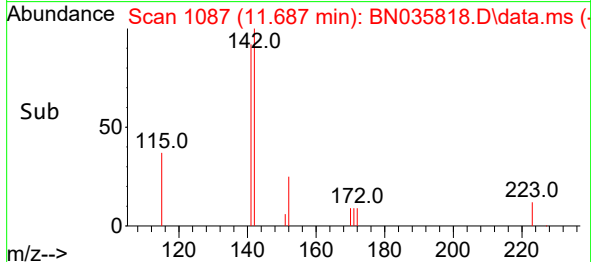
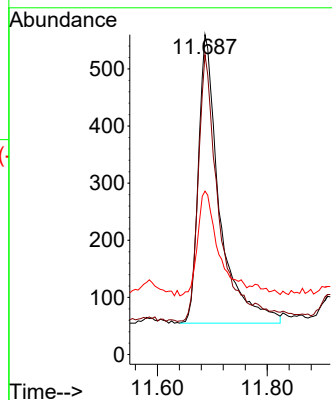
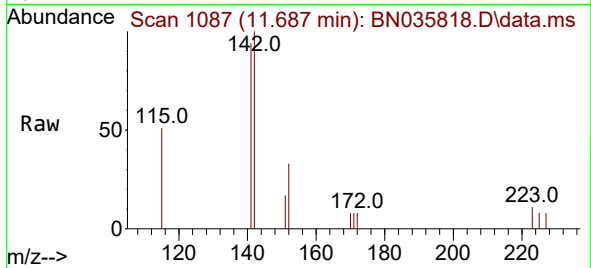




#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.687 min Scan# 1096
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

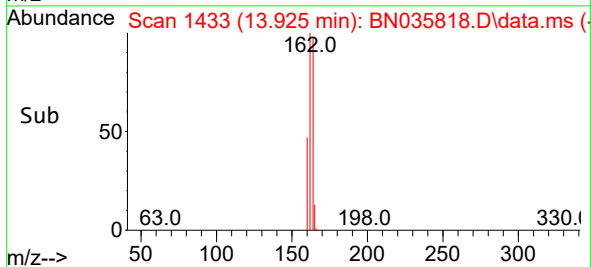
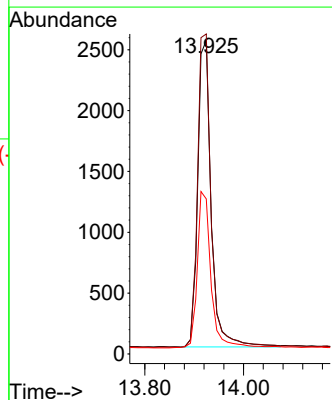
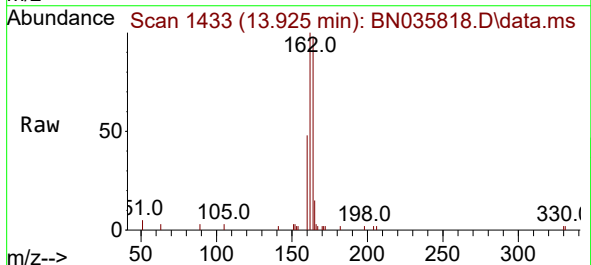
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

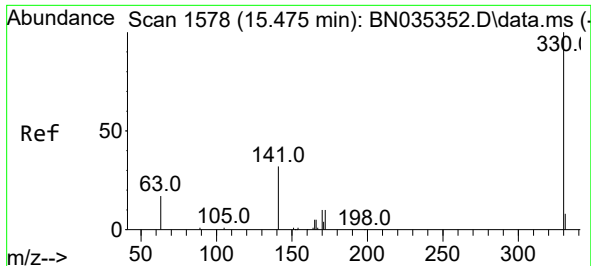
Tgt Ion:142 Resp: 1347
Ion Ratio Lower Upper
142 100
141 93.8 72.2 108.4
115 51.1 31.4 47.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:164 Resp: 4769
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.4 40.1 60.1

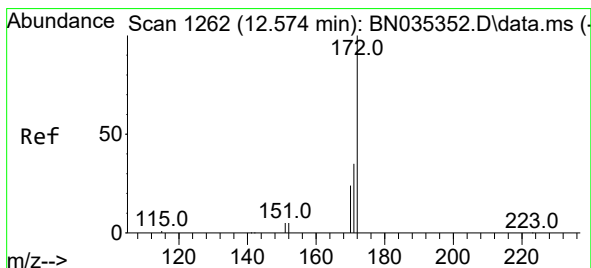
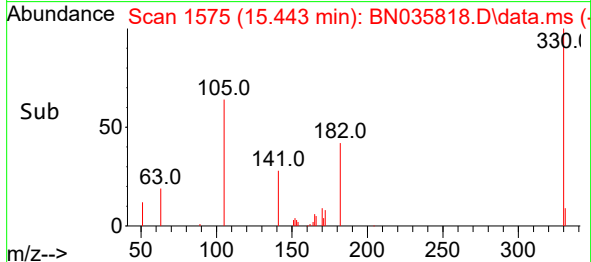
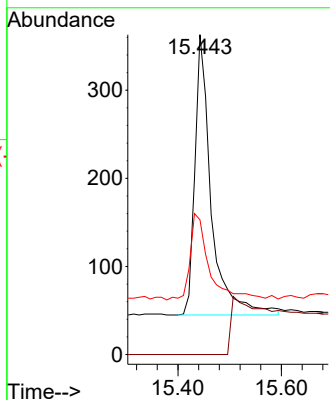
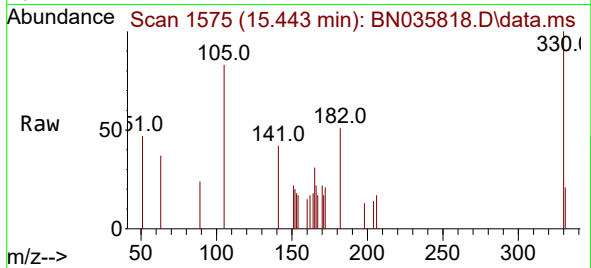




#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

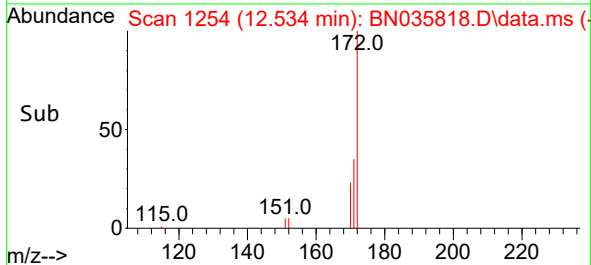
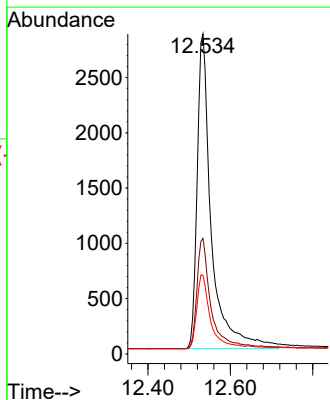
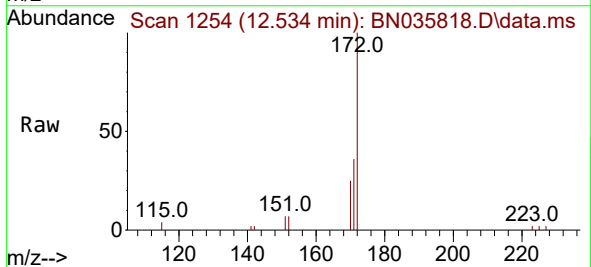
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

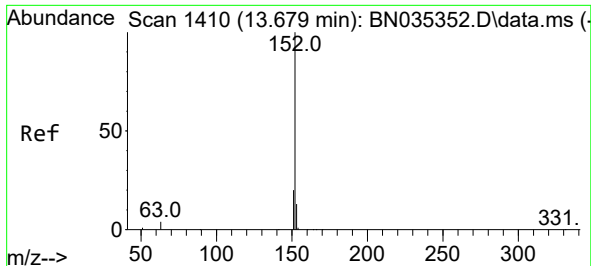
Tgt Ion:330 Resp: 736
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.9 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:172 Resp: 6868
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.4
170 24.6 19.8 29.8

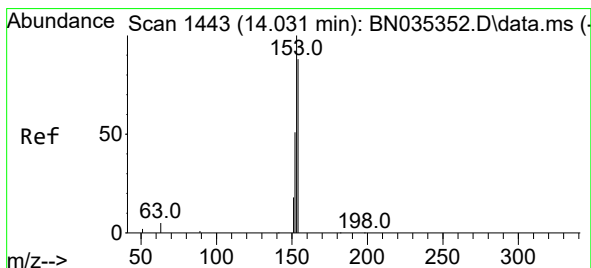
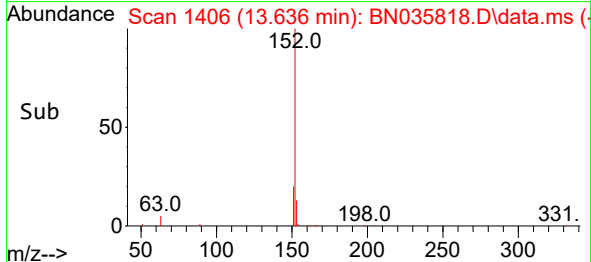
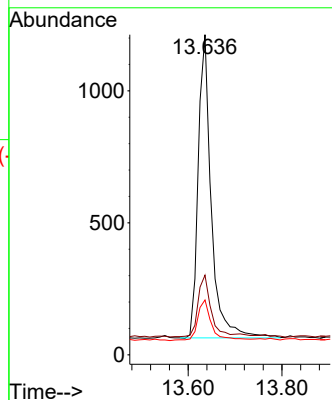
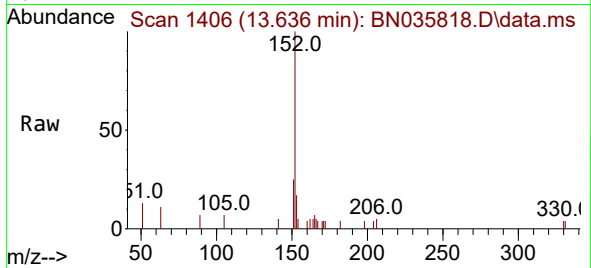




#16
Acenaphthylene
Concen: 0.111 ng
RT: 13.636 min Scan# 1410
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

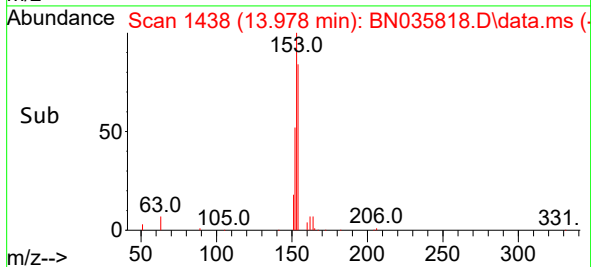
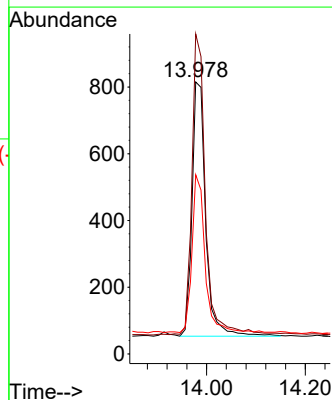
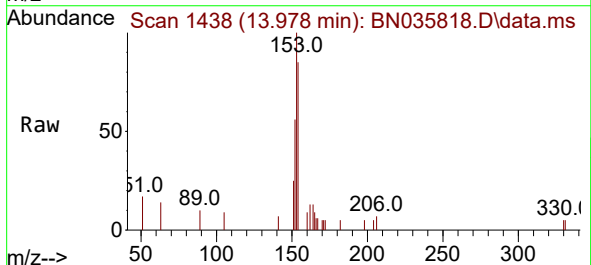
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

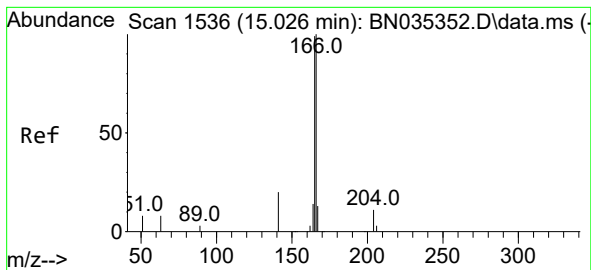
Tgt Ion:152 Resp: 2222
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 14.4 10.4 15.6



#17
Acenaphthene
Concen: 0.110 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:154 Resp: 1464
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 58.9 49.0 73.6





#18

Fluorene

Concen: 0.106 ng

RT: 14.994 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218

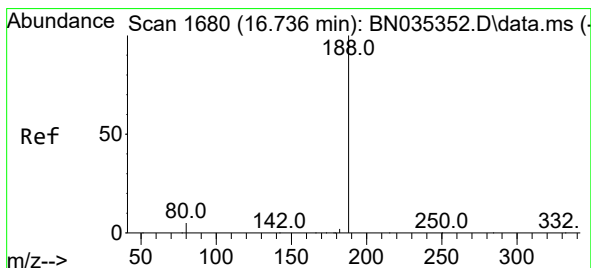
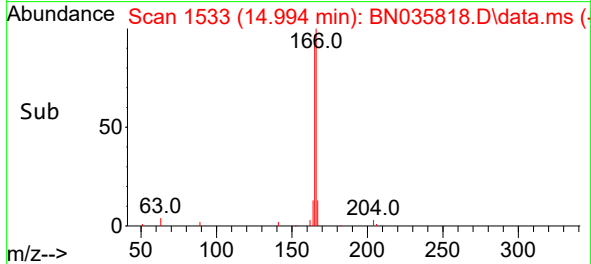
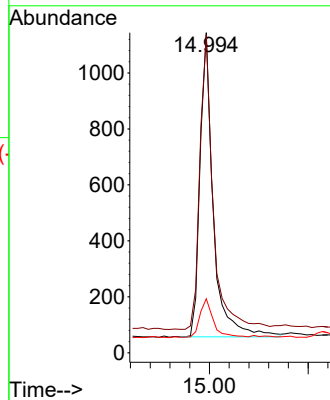
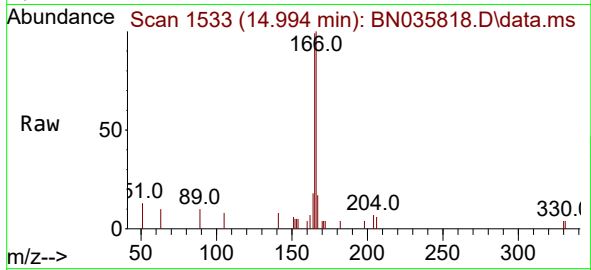
Tgt Ion:166 Resp: 2023

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: BN035818.D

Acq: 24 Dec 2024 13:08

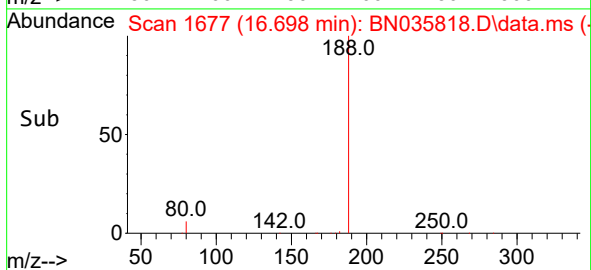
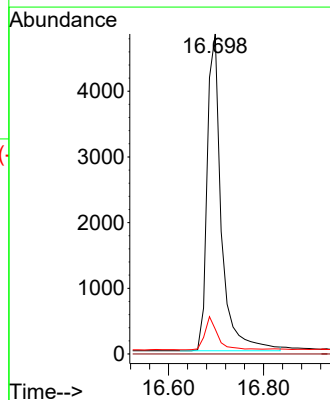
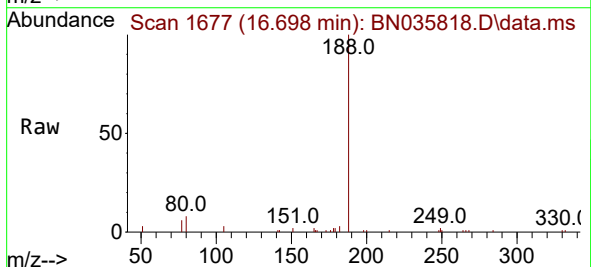
Tgt Ion:188 Resp: 10054

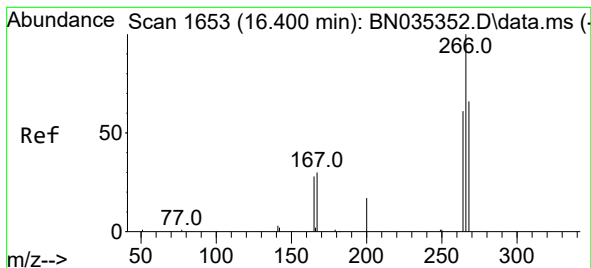
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 4.6 6.8#





#24

Pentachlorophenol

Concen: 0.021 ng

RT: 16.363 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

Instrument :

BNA_N

ClientSampleId :

DUP-07-20241218

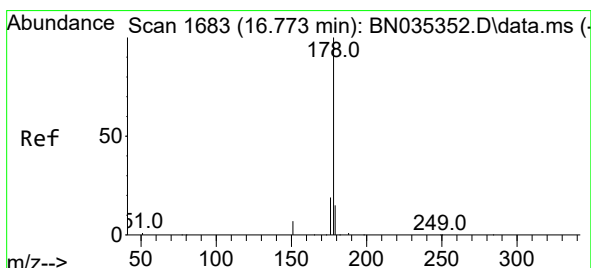
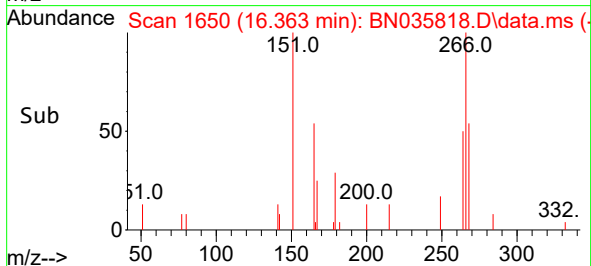
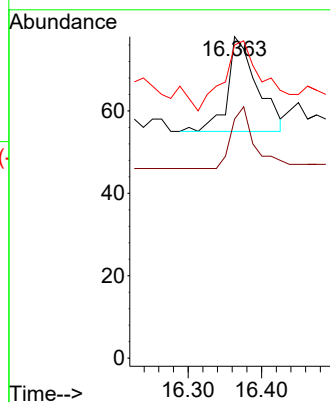
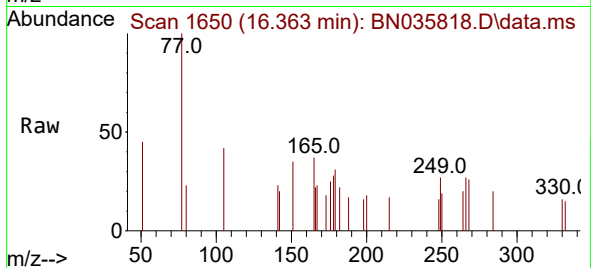
Tgt Ion:266 Resp: 64

Ion Ratio Lower Upper

266 100

264 53.1 42.3 63.5

268 98.4 43.3 64.9#



#25

Phenanthrene

Concen: 0.145 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.012 min

Lab File: BN035818.D

Acq: 24 Dec 2024 13:08

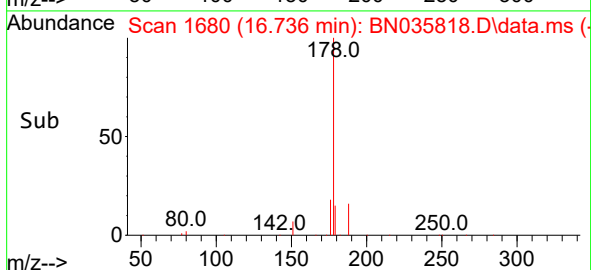
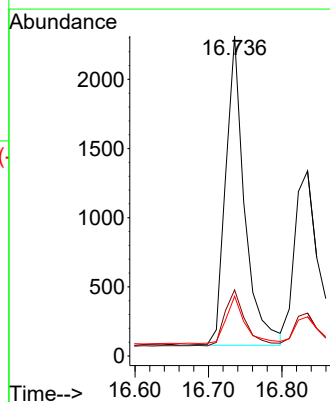
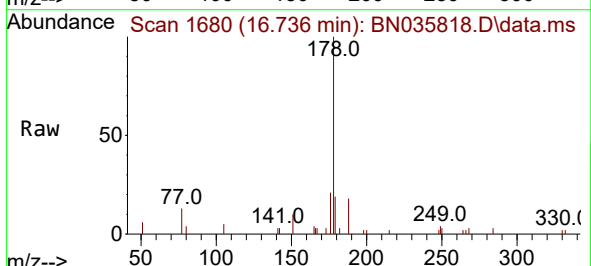
Tgt Ion:178 Resp: 3999

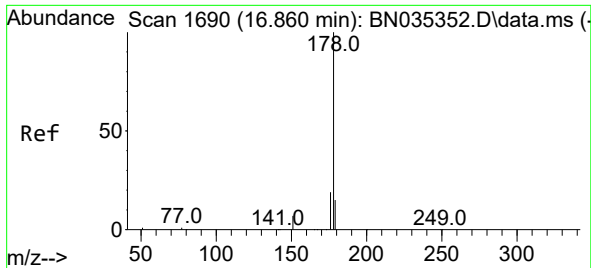
Ion Ratio Lower Upper

178 100

176 20.0 15.4 23.2

179 16.2 12.3 18.5

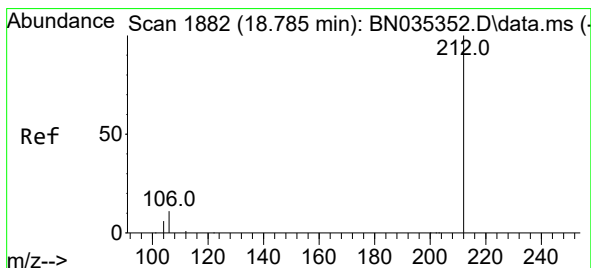
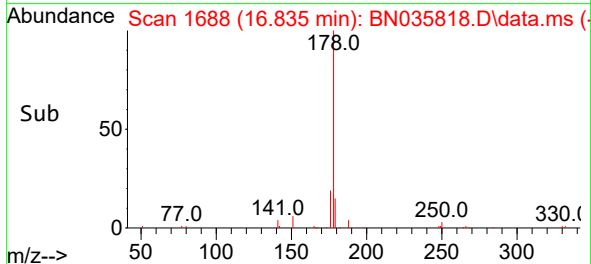
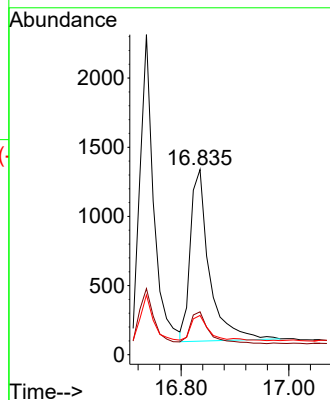
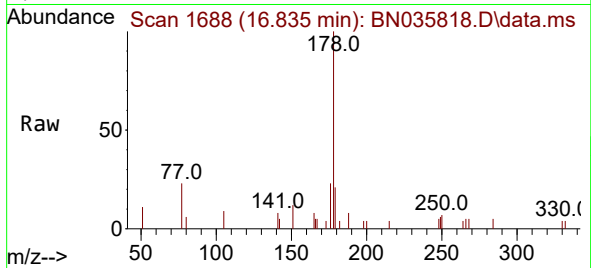




#26
 Anthracene
 Concen: 0.122 ng
 RT: 16.835 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

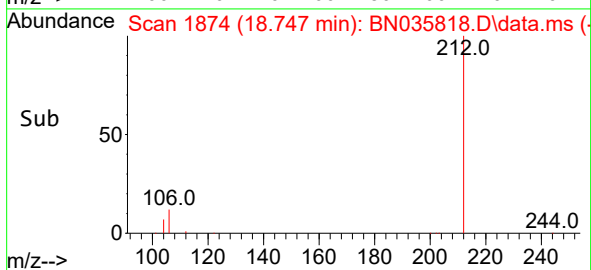
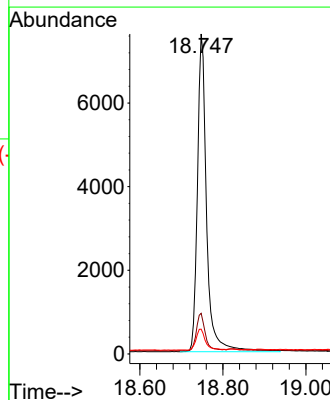
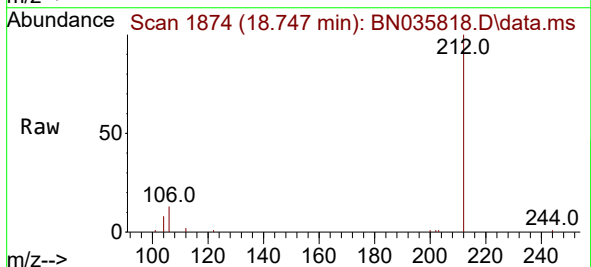
Instrument :
 BNA_N
 ClientSampleId :
 DUP-07-20241218

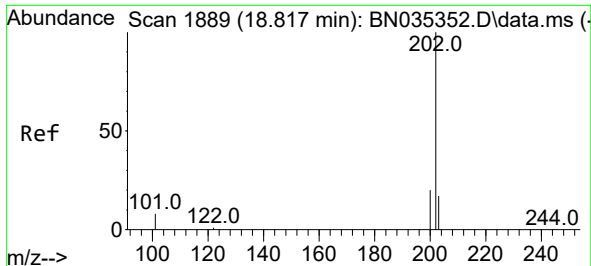
Tgt Ion:178 Resp: 3041
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.0 22.6
 179 15.2 12.6 18.8



#27
 Fluoranthene-d10
 Concen: 0.411 ng
 RT: 18.747 min Scan# 1874
 Delta R.T. -0.014 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

Tgt Ion:212 Resp: 11709
 Ion Ratio Lower Upper
 212 100
 106 11.3 9.2 13.8
 104 6.8 5.3 7.9

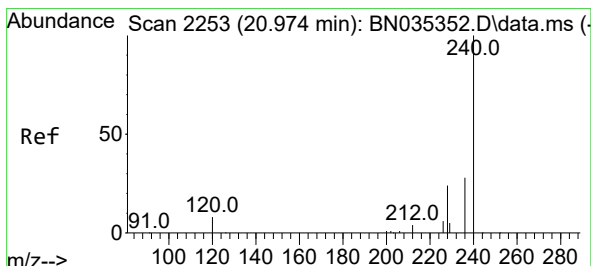
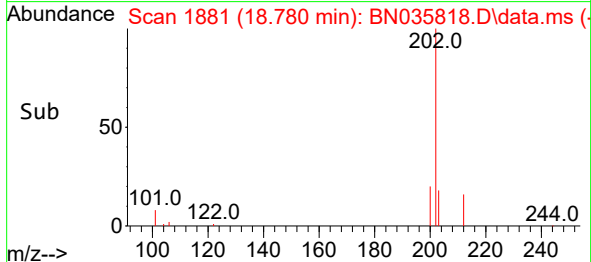
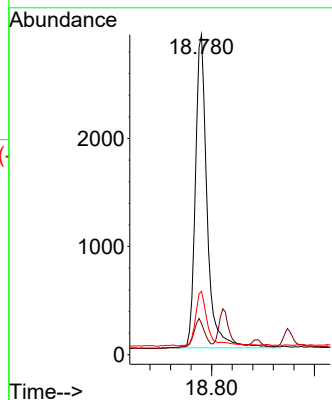
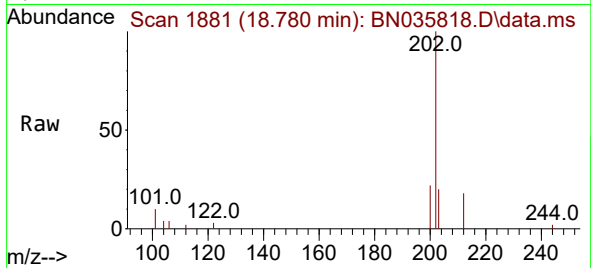




#28
Fluoranthene
Concen: 0.124 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

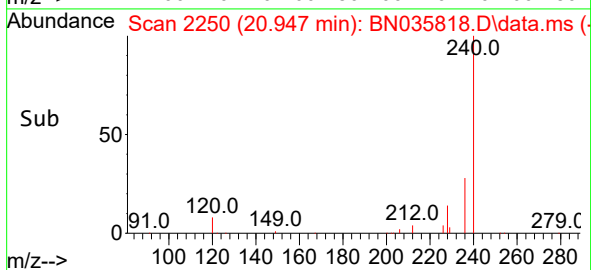
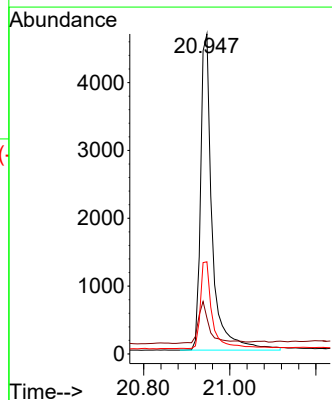
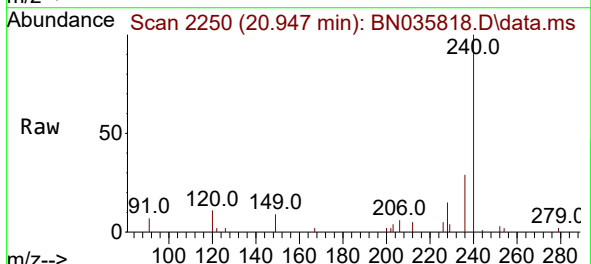
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

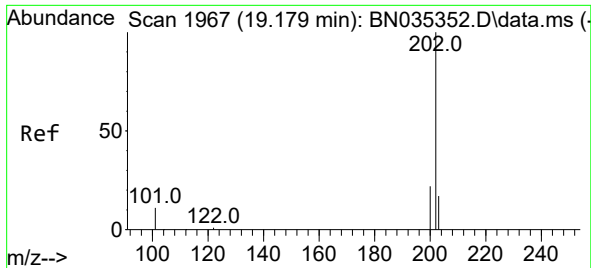
Tgt Ion:202 Resp: 4605
Ion Ratio Lower Upper
202 100
101 9.4 7.4 11.0
203 18.0 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:240 Resp: 8730
Ion Ratio Lower Upper
240 100
120 11.3 7.9 11.9
236 28.8 22.9 34.3

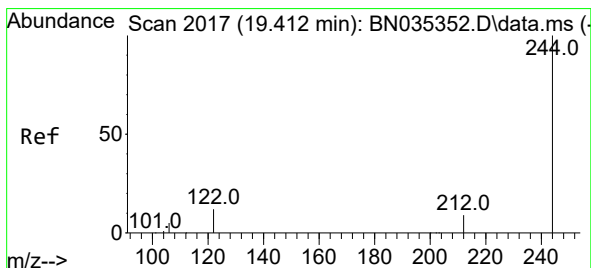
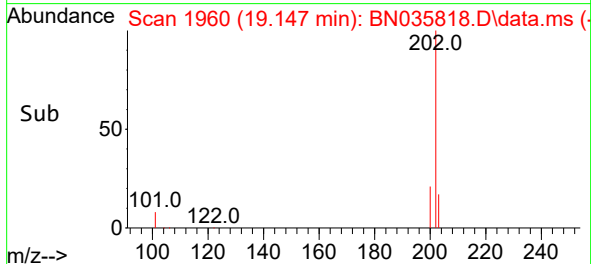
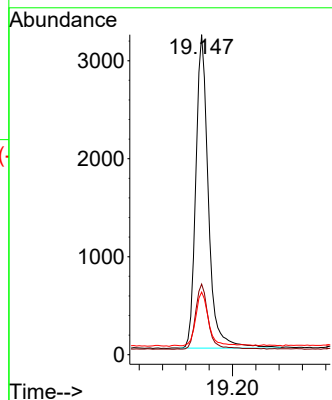
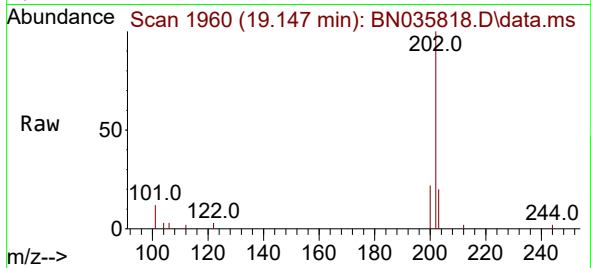




#30
Pyrene
Concen: 0.148 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

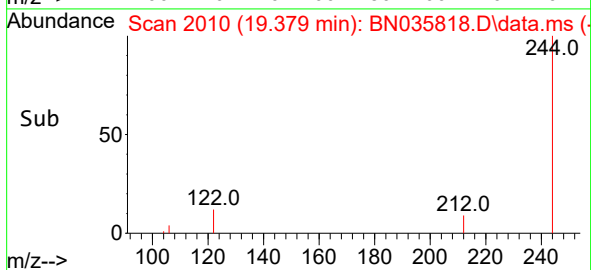
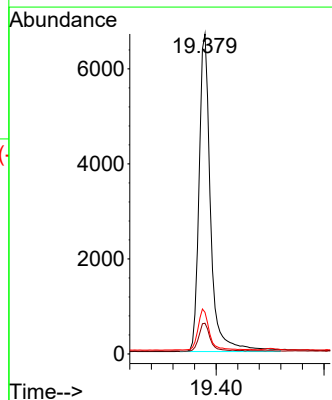
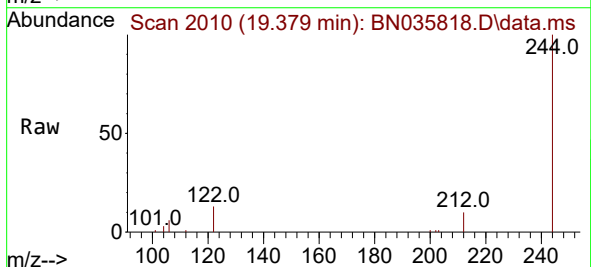
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

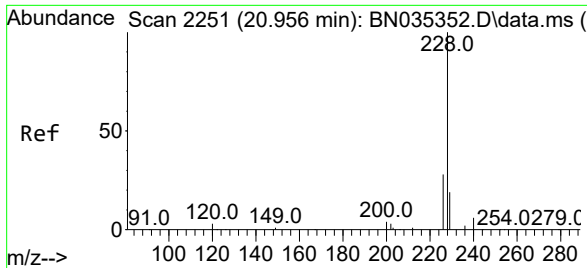
Tgt Ion:202 Resp: 4782
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.1 14.3 21.5



#31
Terphenyl-d14
Concen: 0.577 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:244 Resp: 9932
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 13.0 10.3 15.5

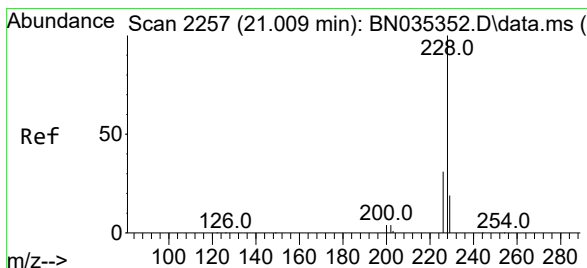
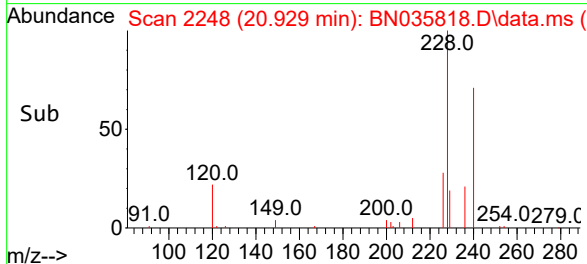
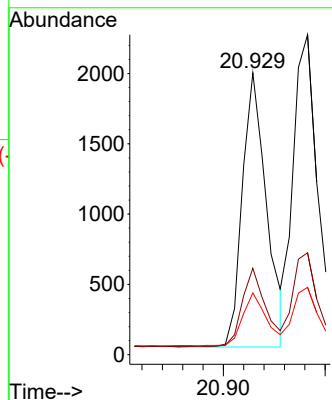
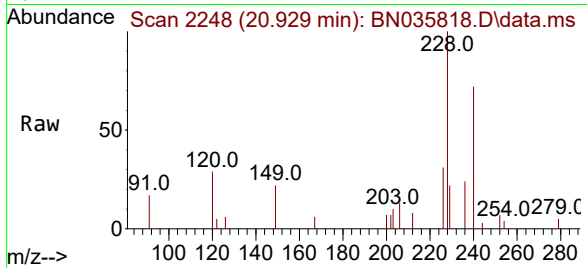




#32
Benzo(a)anthracene
Concen: 0.105 ng
RT: 20.929 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

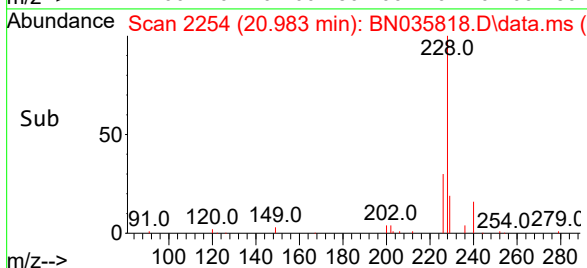
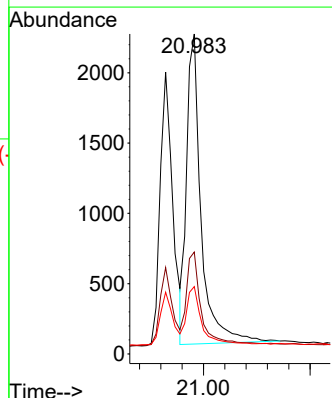
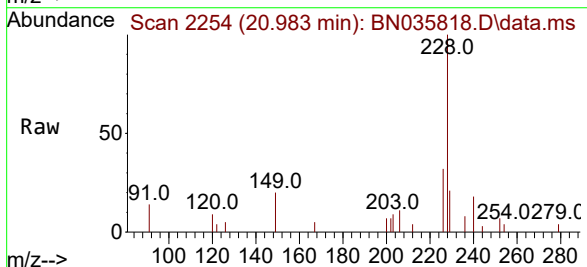
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

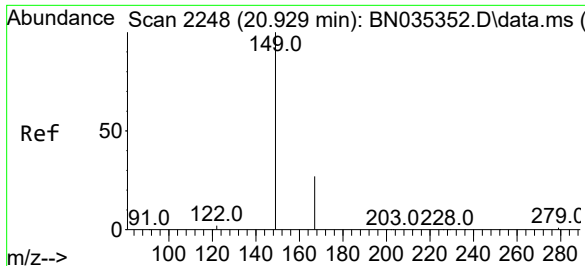
Tgt Ion:228 Resp: 3217
Ion Ratio Lower Upper
228 100
226 30.7 22.5 33.7
229 21.9 15.8 23.8



#33
Chrysene
Concen: 0.132 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 4153
Ion Ratio Lower Upper
228 100
226 31.9 24.6 37.0
229 21.0 15.9 23.9

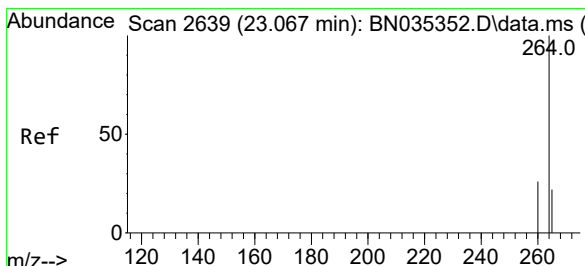
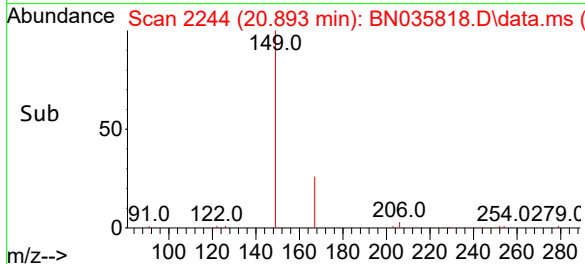
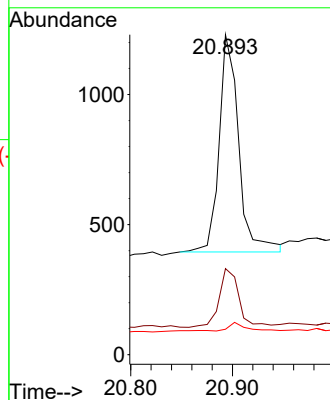
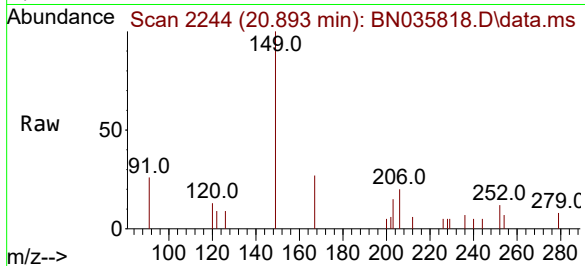




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.092 ng
 RT: 20.893 min Scan# 2111
 Delta R.T. -0.018 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

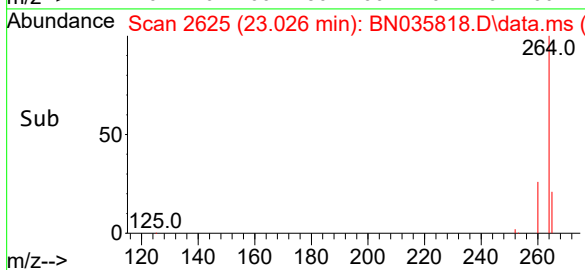
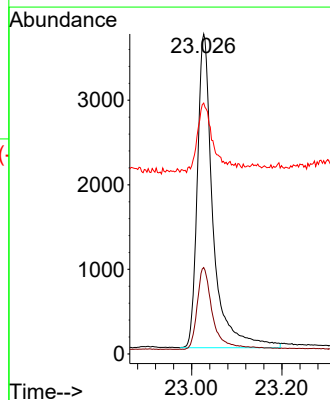
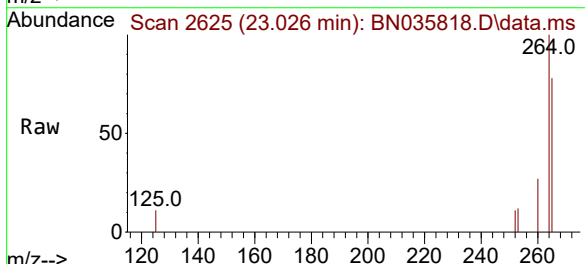
Instrument :
 BNA_N
 ClientSampleId :
 DUP-07-20241218

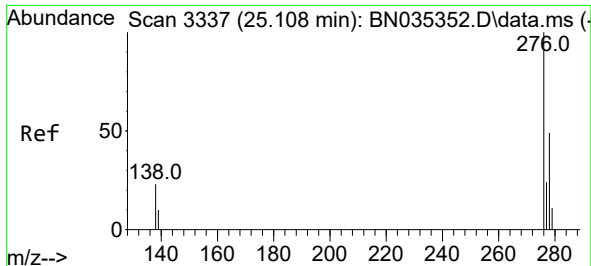
Tgt Ion:149 Resp: 1111
 Ion Ratio Lower Upper
 149 100
 167 27.5 22.2 33.4
 279 3.2 2.7 4.1



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.026 min Scan# 2625
 Delta R.T. -0.015 min
 Lab File: BN035818.D
 Acq: 24 Dec 2024 13:08

Tgt Ion:264 Resp: 8948
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.4 32.2
 265 78.4 40.2 60.4#

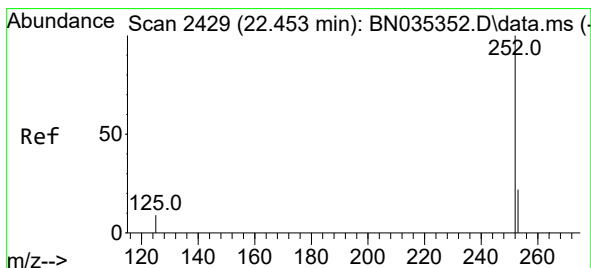
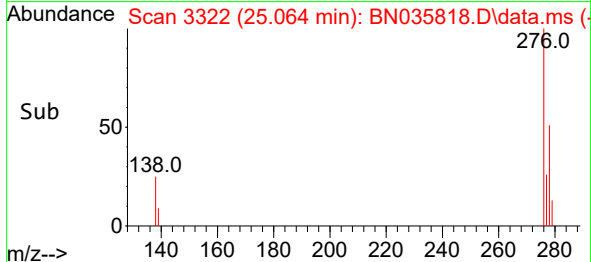
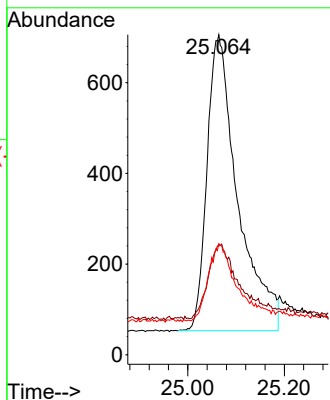
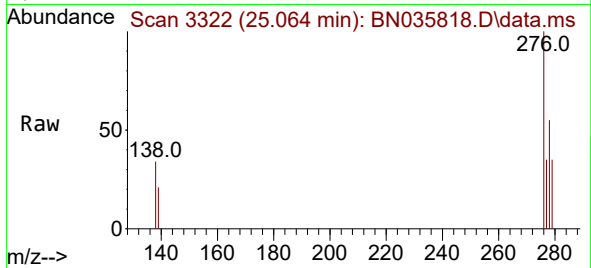




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.082 ng
RT: 25.064 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

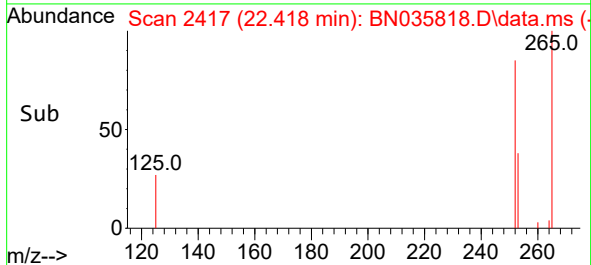
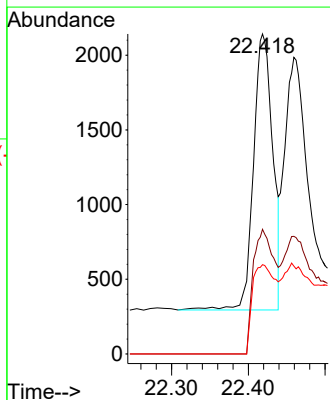
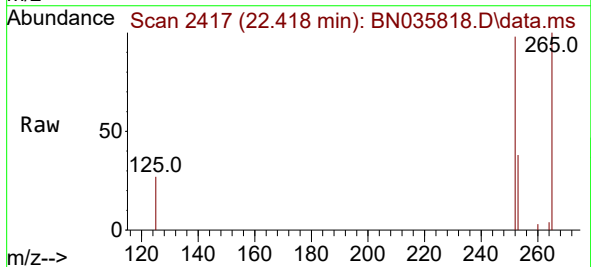
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

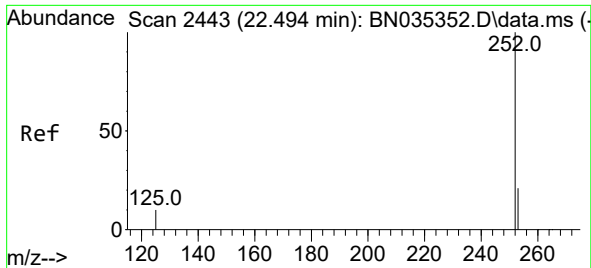
Tgt Ion:276 Resp: 2885
Ion Ratio Lower Upper
276 100
138 24.9 19.4 29.0
277 22.5 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 0.180 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

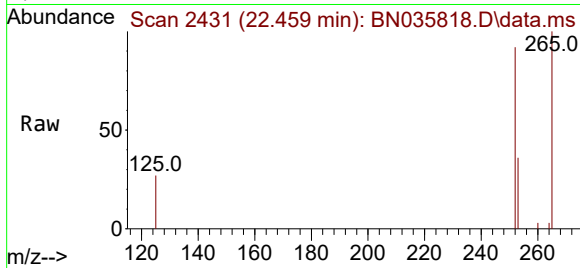
Tgt Ion:252 Resp: 5898
Ion Ratio Lower Upper
252 100
253 38.9 19.6 29.4#
125 27.9 9.6 14.4#



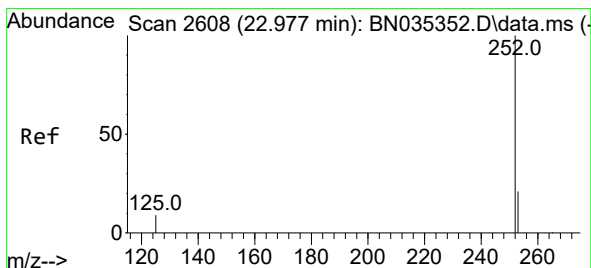
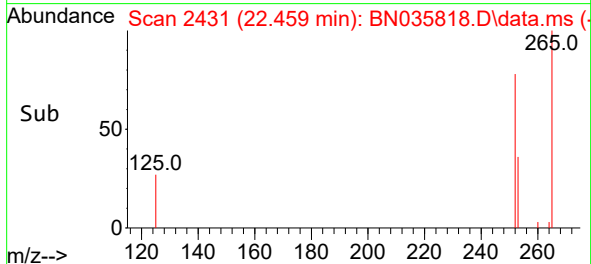
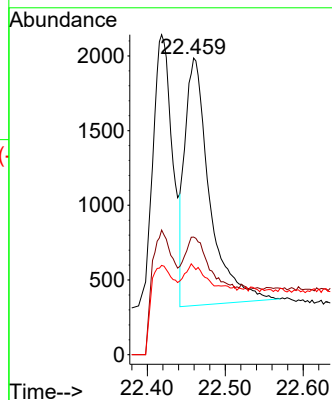


#38
Benzo(k)fluoranthene
Concen: 0.113 ng
RT: 22.459 min Scan# 2443
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

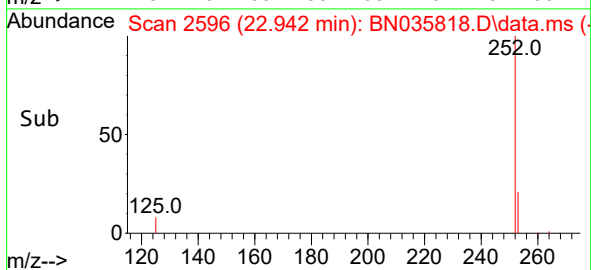
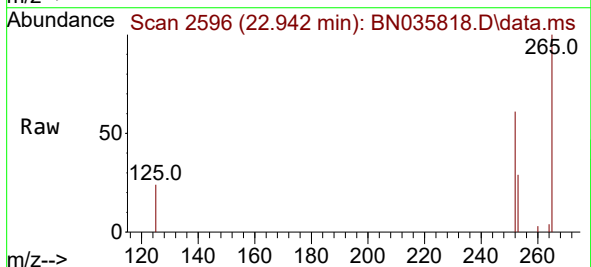
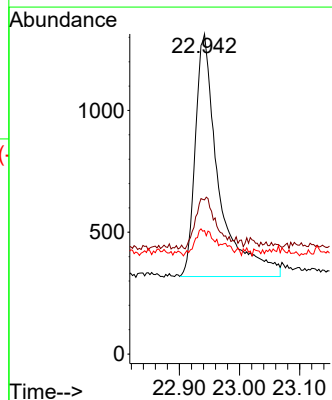


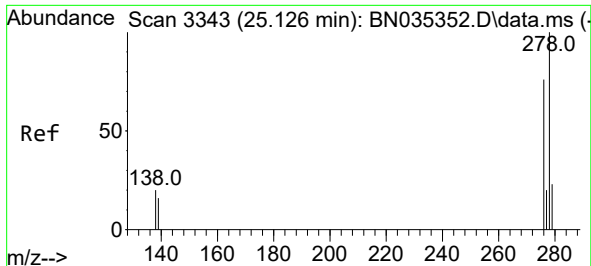
Tgt Ion:252 Resp: 3643
Ion Ratio Lower Upper
252 100
253 39.6 19.5 29.3#
125 29.6 10.2 15.4#



#39
Benzo(a)pyrene
Concen: 0.100 ng
RT: 22.942 min Scan# 2596
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 2686
Ion Ratio Lower Upper
252 100
253 48.2 20.2 30.4#
125 38.6 10.9 16.3#

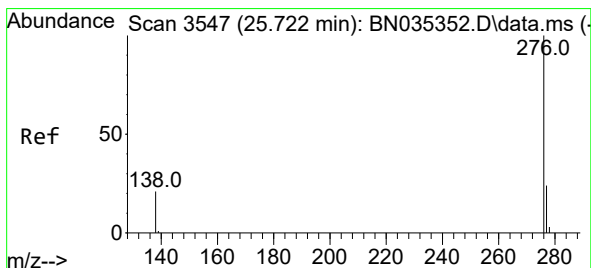
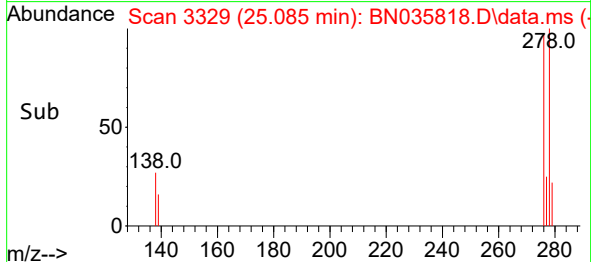
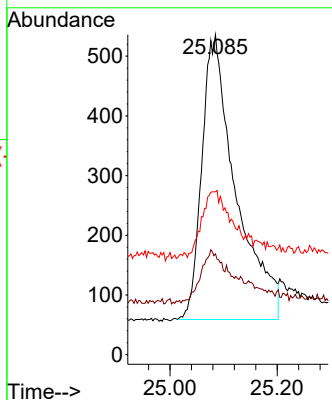
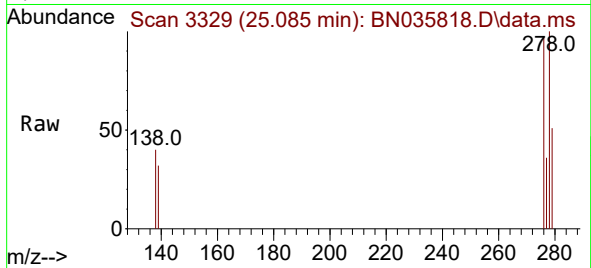




#40
Dibenzo(a,h)anthracene
Concen: 0.076 ng
RT: 25.085 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

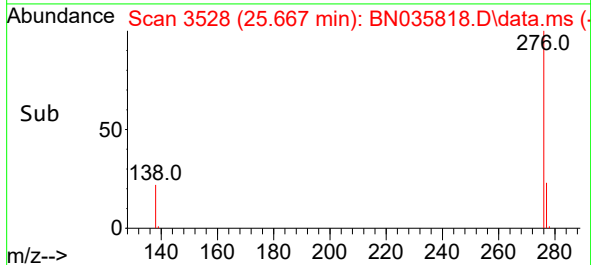
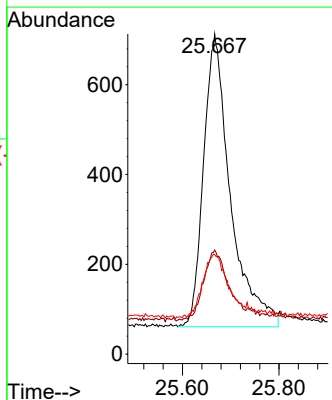
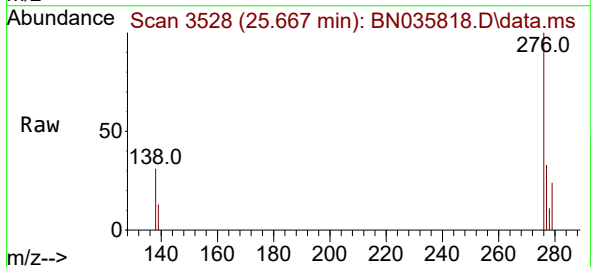
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:278 Resp: 2103
Ion Ratio Lower Upper
278 100
139 31.5 14.2 21.4#
279 50.9 20.5 30.7#



#41
Benzo(g,h,i)perylene
Concen: 0.087 ng
RT: 25.667 min Scan# 3528
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 2516
Ion Ratio Lower Upper
276 100
277 32.5 19.9 29.9#
138 31.1 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035819.D
 Acq On : 24 Dec 2024 13:44
 Operator : RC/JU
 Sample : P5376-06
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT17411-20241218

Quant Time: Dec 24 23:18:17 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)

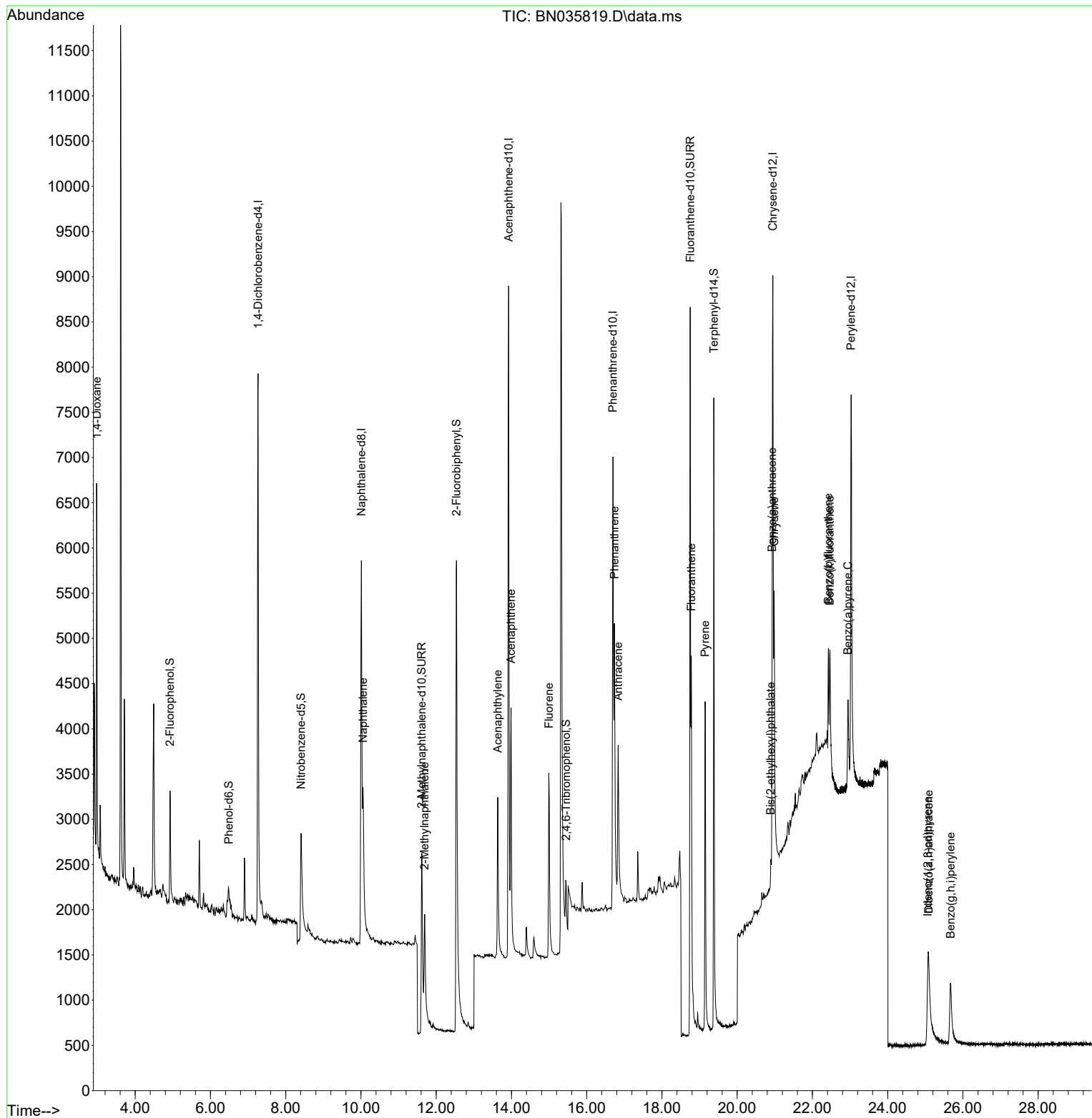
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3689	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8470	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5265	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9421	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7347	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7210	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	1128	0.122	ng	-0.01
5) Phenol-d6	6.484	99	578	0.052	ng	0.00
8) Nitrobenzene-d5	8.407	82	3126	0.604	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4896	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	747	0.200	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	8403	0.422	ng	0.00
27) Fluoranthene-d10	18.752	212	11207	0.420	ng	0.00
31) Terphenyl-d14	19.379	244	8308	0.573	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	2834	0.804	ng	99
9) Naphthalene	10.052	128	2295	0.103	ng	# 90
12) 2-Methylnaphthalene	11.691	142	1434	0.090	ng	# 92
16) Acenaphthylene	13.636	152	2575	0.116	ng	99
17) Acenaphthene	13.988	154	1536	0.105	ng	96
18) Fluorene	14.993	166	1937	0.092	ng	99
25) Phenanthrene	16.735	178	3558	0.137	ng	99
26) Anthracene	16.835	178	2627	0.112	ng	99
28) Fluoranthene	18.780	202	3772	0.108	ng	99
30) Pyrene	19.147	202	3996	0.147	ng	100
32) Benzo(a)anthracene	20.929	228	2328	0.091	ng	95
33) Chrysene	20.982	228	3355	0.127	ng	96
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.035	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.067	276	2032	0.072	ng	# 86
37) Benzo(b)fluoranthene	22.421	252	3012	0.114	ng	# 58
38) Benzo(k)fluoranthene	22.462	252	2589	0.100	ng	# 56
39) Benzo(a)pyrene	22.944	252	1842	0.085	ng	# 32
40) Dibenzo(a,h)anthracene	25.090	278	1565	0.070	ng	# 43
41) Benzo(g,h,i)perylene	25.672	276	1852	0.080	ng	# 78

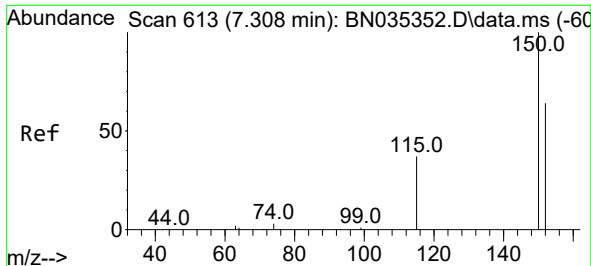
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

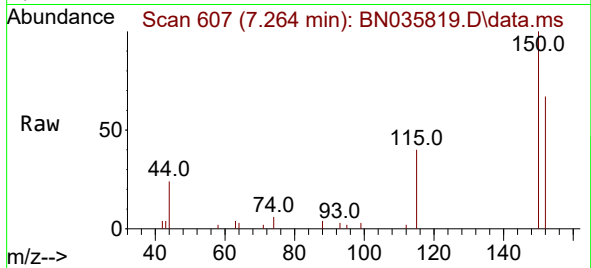
Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



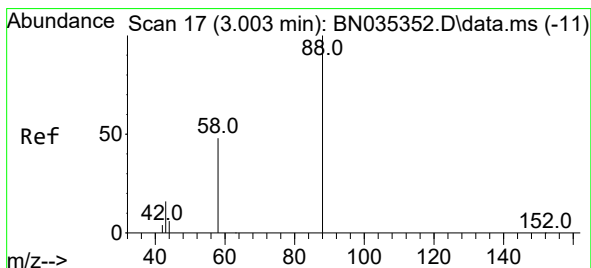
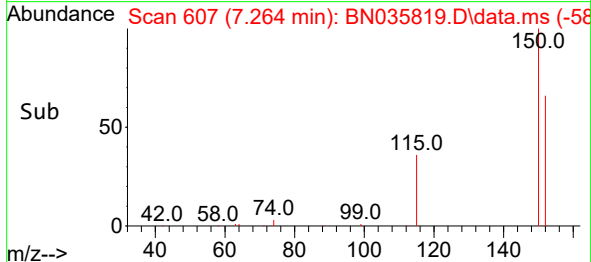
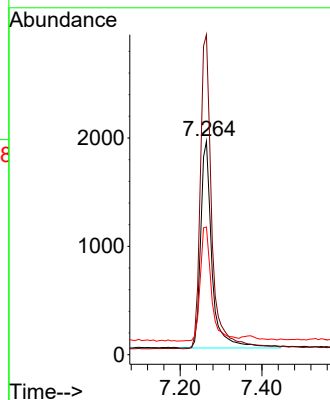


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035819.D
 Acq: 24 Dec 2024 13:44

Instrument :
 BNA_N
 ClientSampleId :
 TT17411-20241218

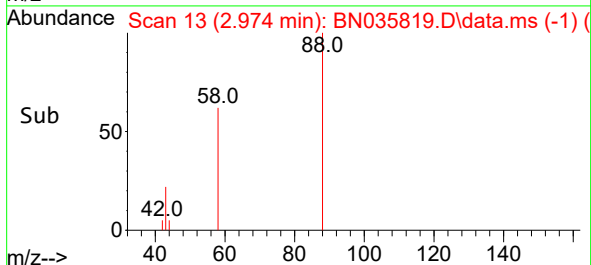
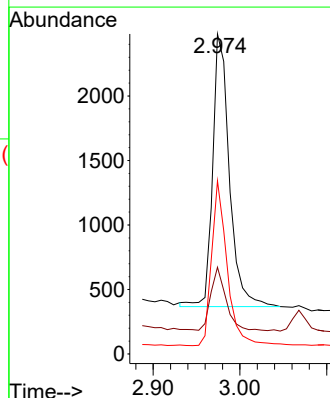
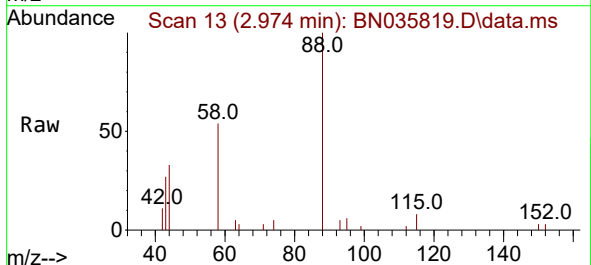


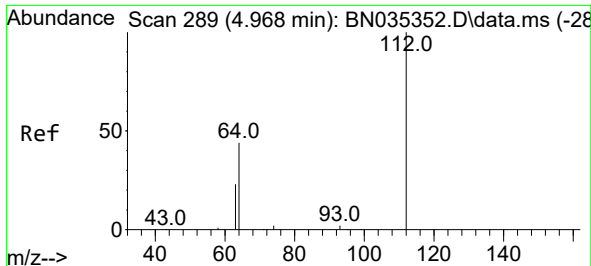
Tgt Ion:152 Resp: 3689
 Ion Ratio Lower Upper
 152 100
 150 150.0 124.0 186.0
 115 59.8 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.804 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.008 min
 Lab File: BN035819.D
 Acq: 24 Dec 2024 13:44

Tgt Ion: 88 Resp: 2834
 Ion Ratio Lower Upper
 88 100
 43 21.2 17.2 25.8
 58 56.3 44.5 66.7

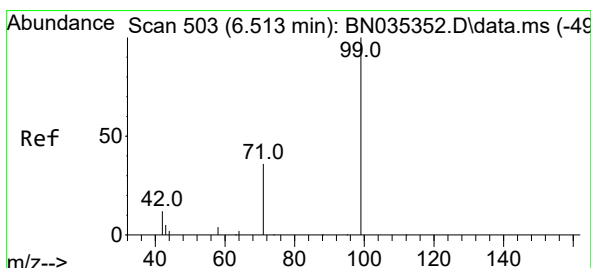
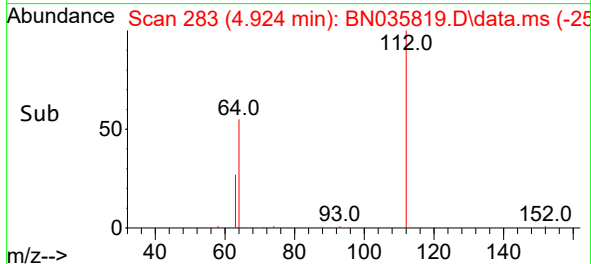
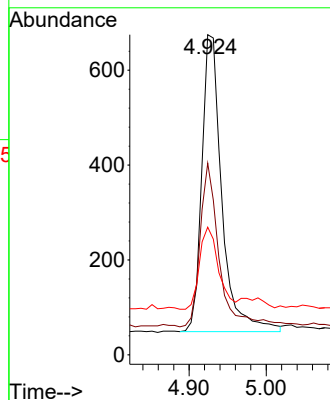
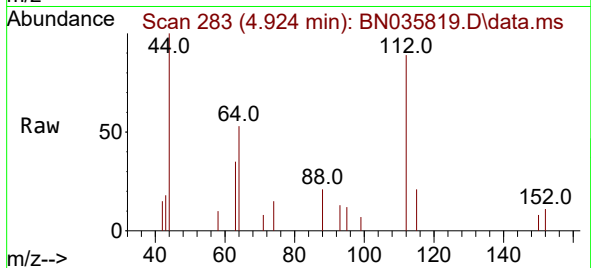




#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

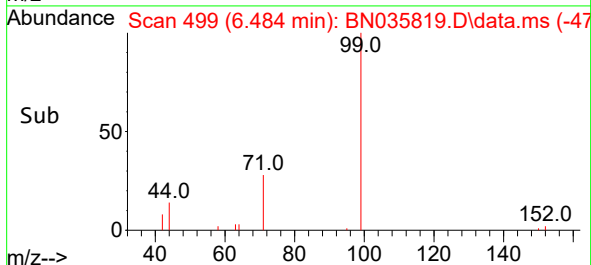
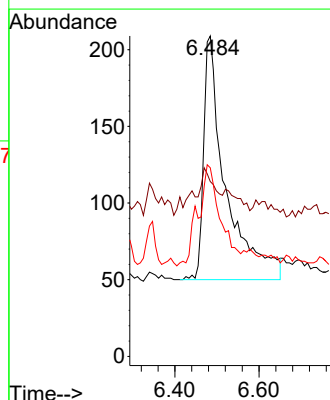
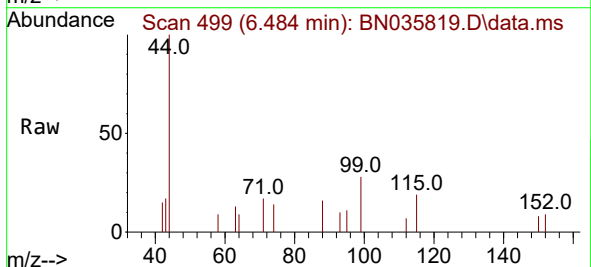
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

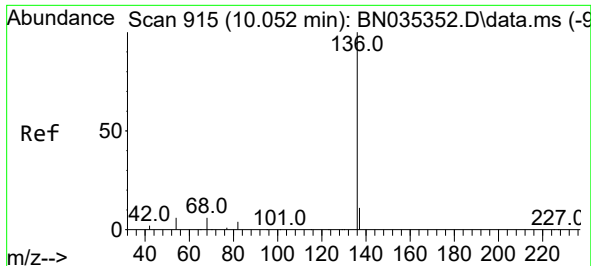
Tgt Ion:112 Resp: 1128
Ion Ratio Lower Upper
112 100
64 53.3 39.8 59.8
63 26.3 21.0 31.6



#5
Phenol-d6
Concen: 0.052 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 99 Resp: 578
Ion Ratio Lower Upper
99 100
42 5.5 11.4 17.2#
71 42.2 29.3 43.9

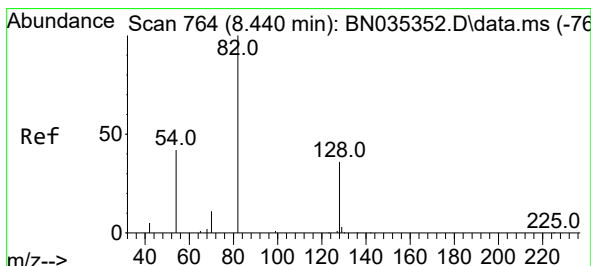
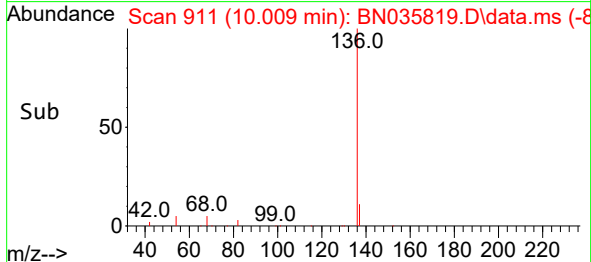
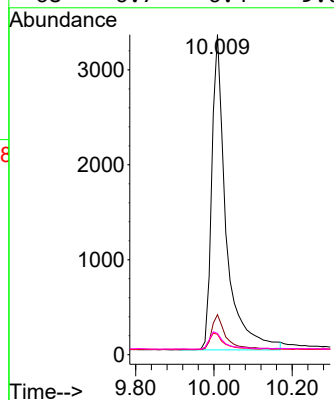
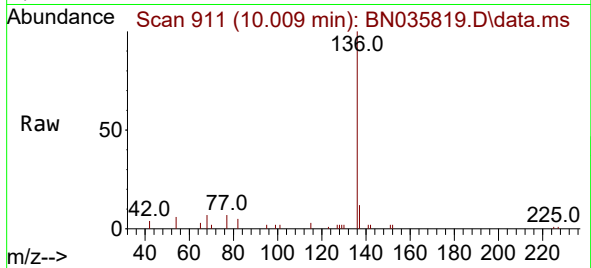




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

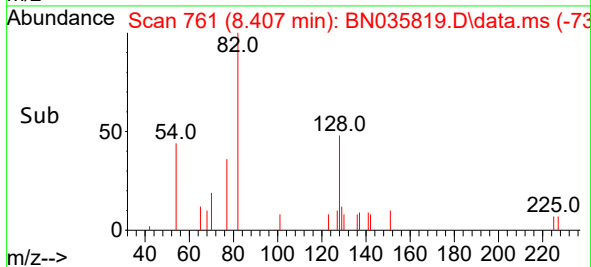
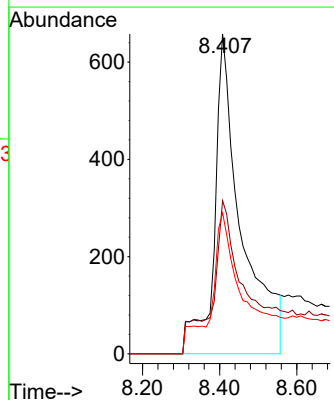
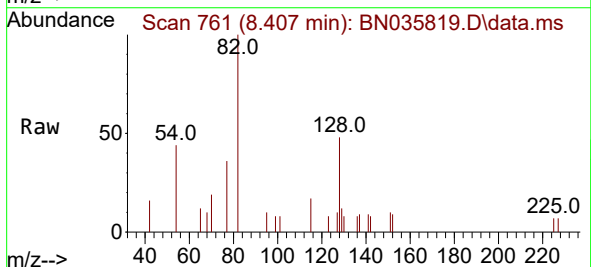
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

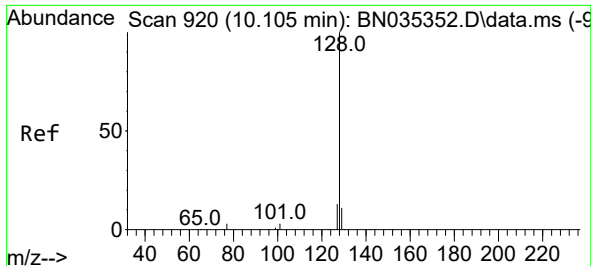
Tgt Ion:	136	Resp:	8470
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.4	6.1	9.1
68	6.7	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.604 ng
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:	82	Resp:	3126
Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.1	36.7	55.1

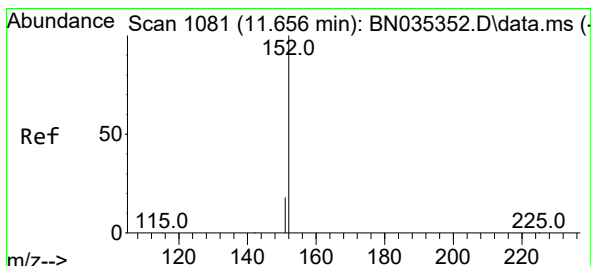
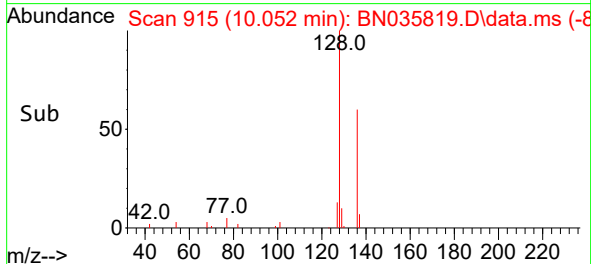
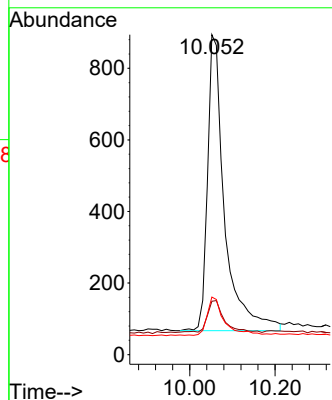
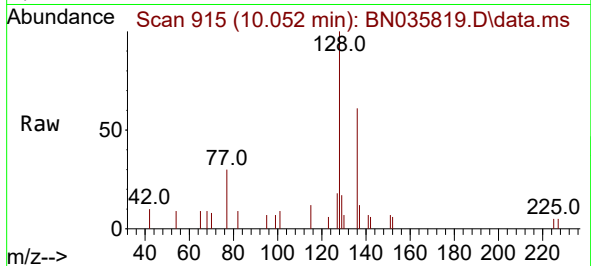




#9
Naphthalene
Concen: 0.103 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

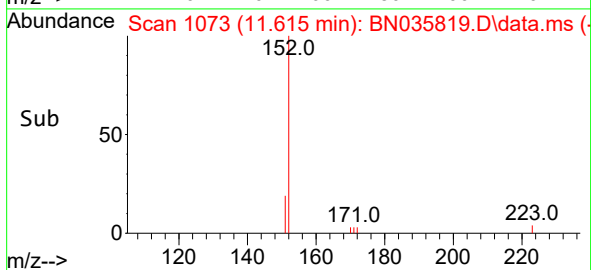
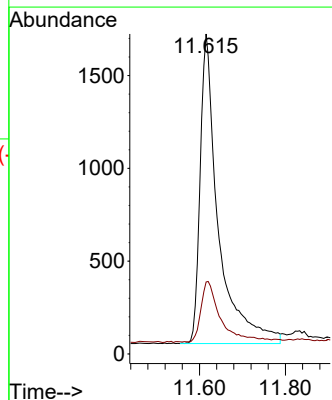
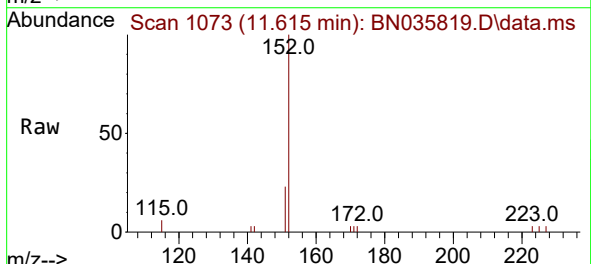
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

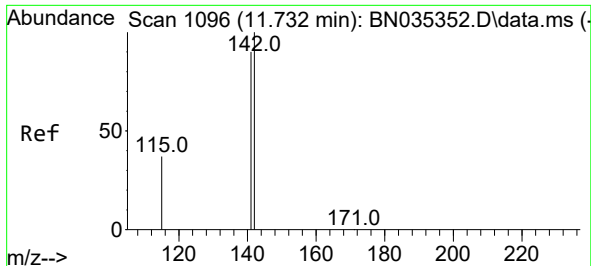
Tgt Ion:128 Resp: 2295
Ion Ratio Lower Upper
128 100
129 16.7 9.8 14.6#
127 18.0 11.4 17.2#



#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

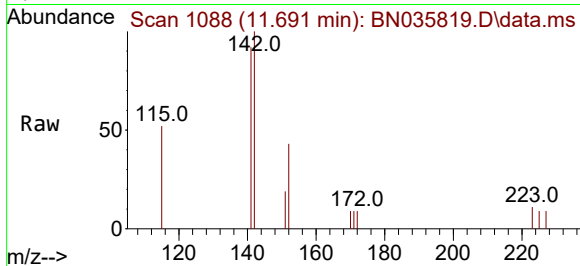
Tgt Ion:152 Resp: 4896
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



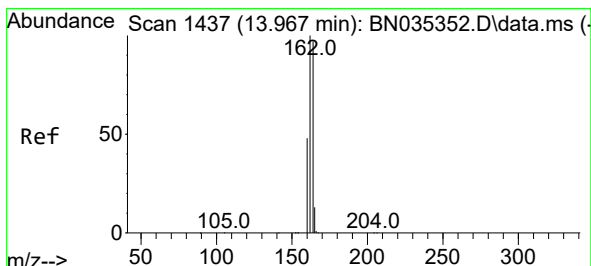
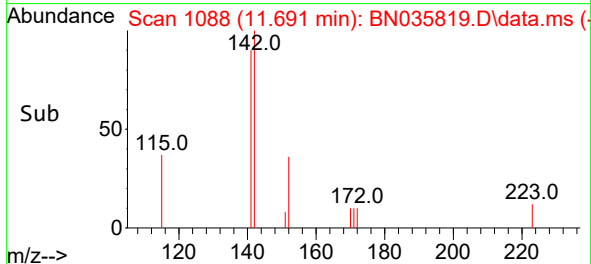
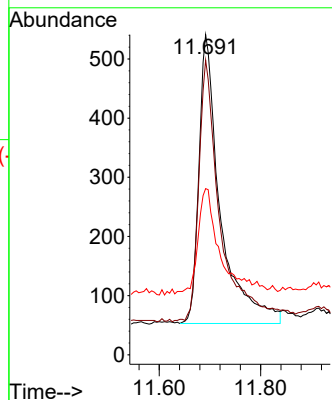


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

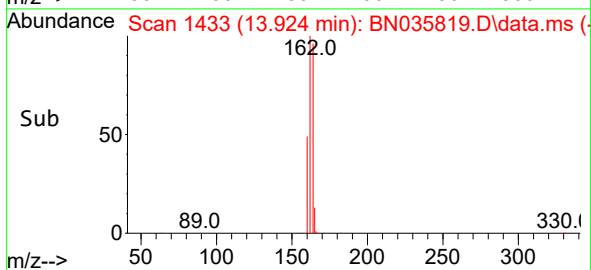
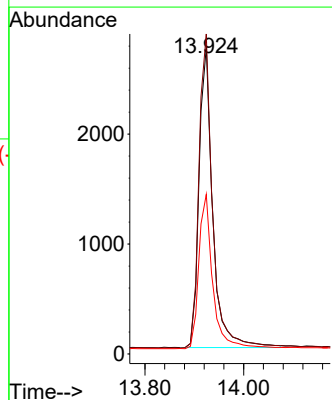
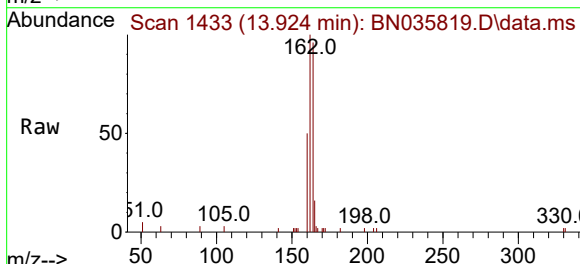


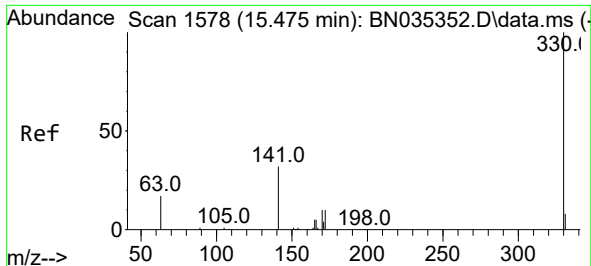
Tgt Ion:142 Resp: 1434
Ion Ratio Lower Upper
142 100
141 92.1 72.2 108.4
115 51.9 31.4 47.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:164 Resp: 5265
Ion Ratio Lower Upper
164 100
162 104.3 82.2 123.2
160 52.0 40.1 60.1

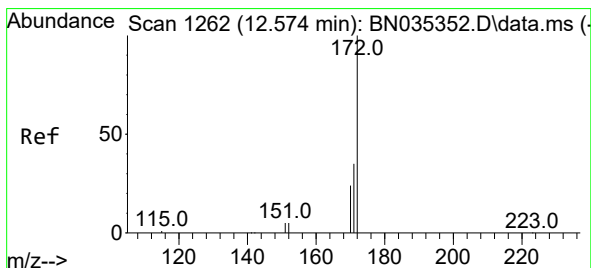
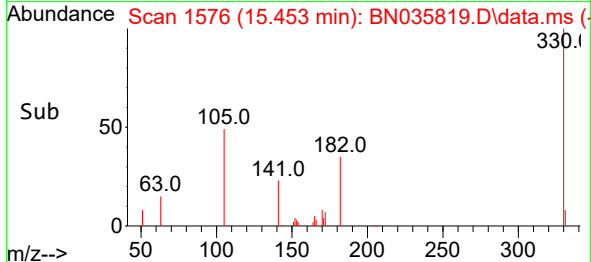
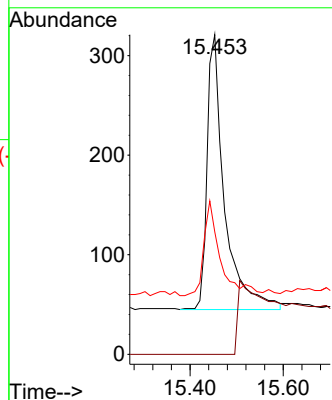
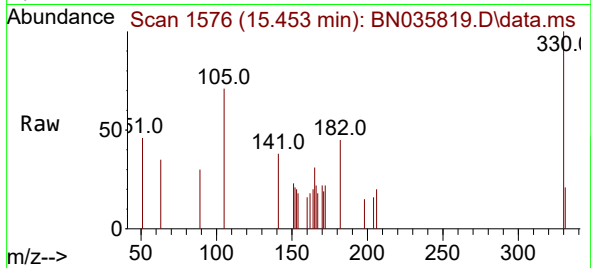




#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

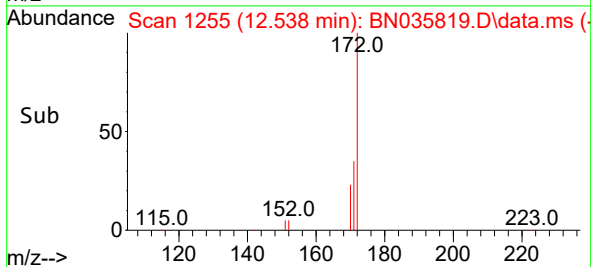
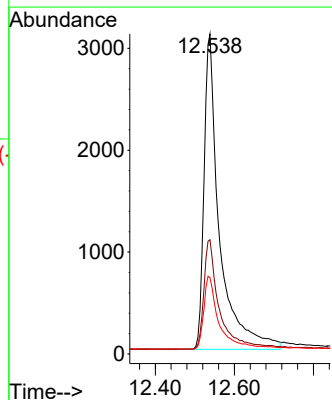
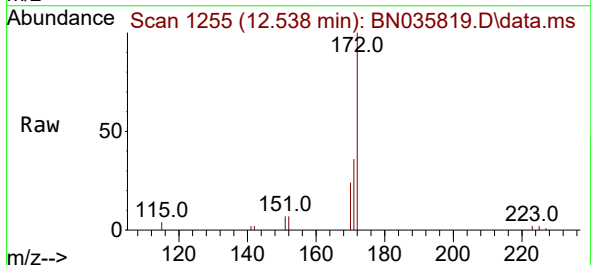
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

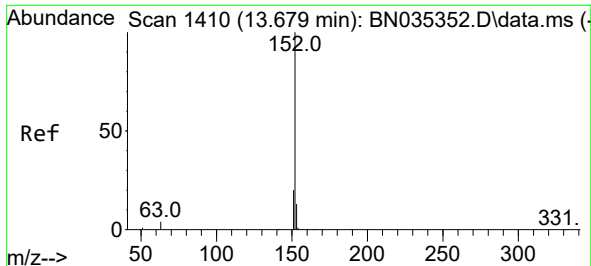
Tgt Ion:330 Resp: 747
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.3 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:172 Resp: 8403
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 23.8 19.8 29.8

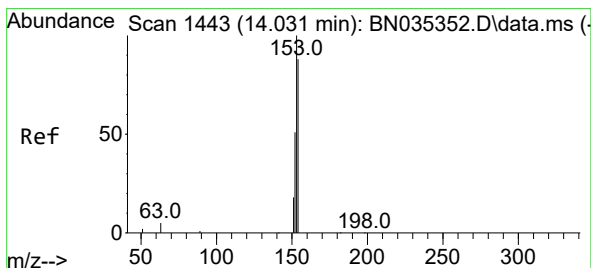
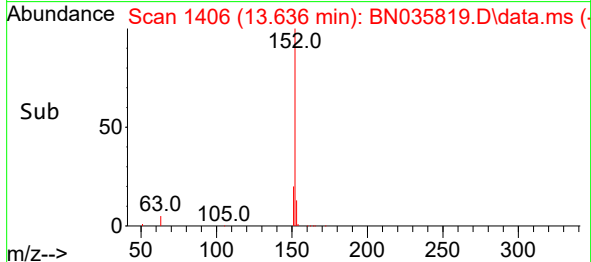
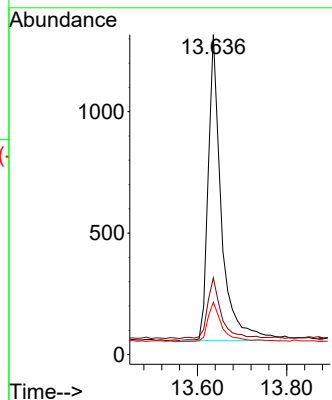
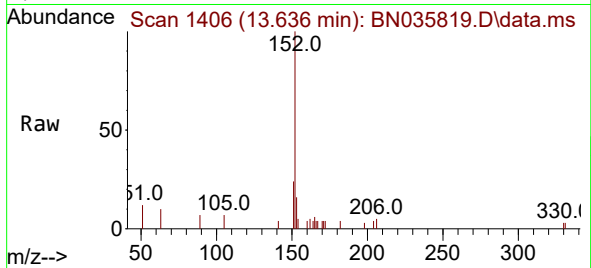




#16
Acenaphthylene
Concen: 0.116 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

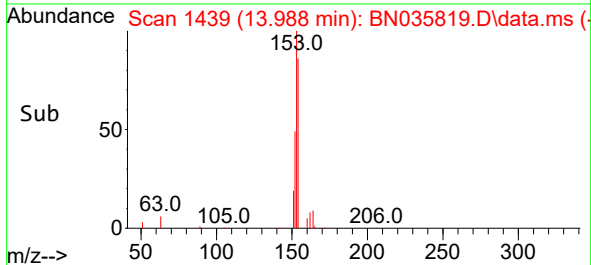
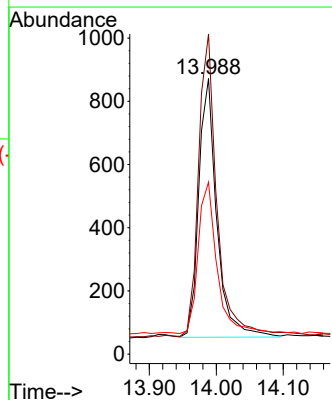
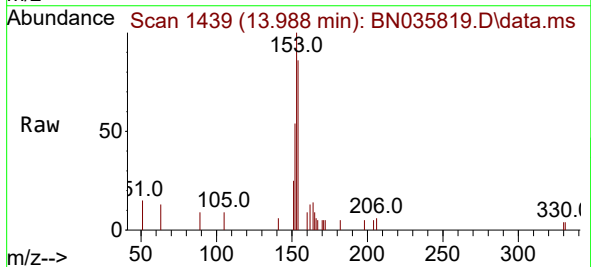
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

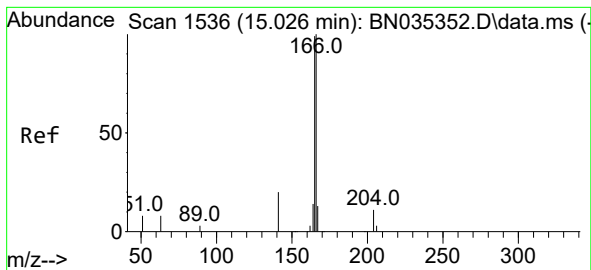
Tgt Ion:152 Resp: 2575
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.2
153 13.3 10.4 15.6



#17
Acenaphthene
Concen: 0.105 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:154 Resp: 1536
Ion Ratio Lower Upper
154 100
153 122.4 92.6 139.0
152 61.7 49.0 73.6





#18

Fluorene

Concen: 0.092 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218

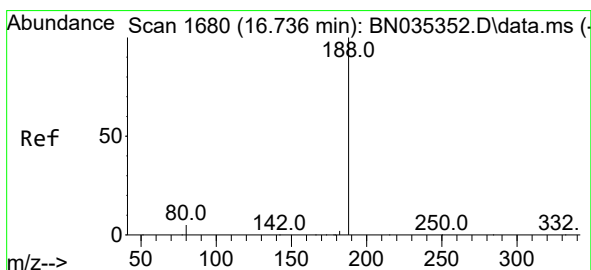
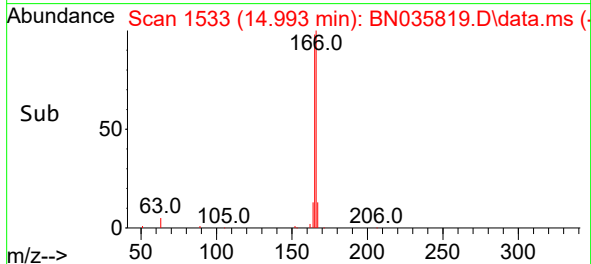
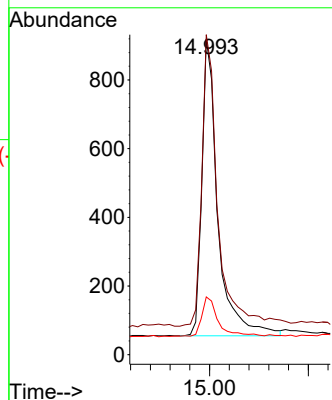
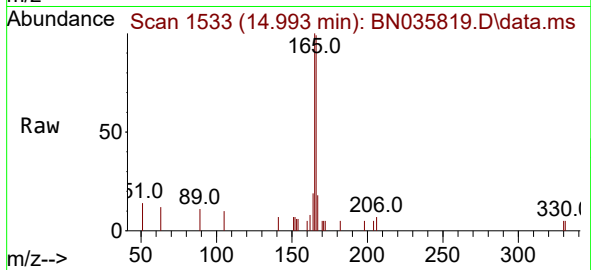
Tgt Ion:166 Resp: 1937

Ion Ratio Lower Upper

166 100

165 98.9 79.7 119.5

167 13.8 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: BN035819.D

Acq: 24 Dec 2024 13:44

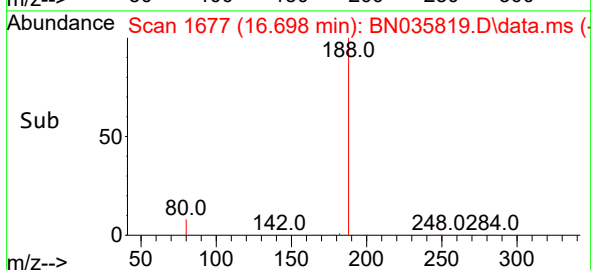
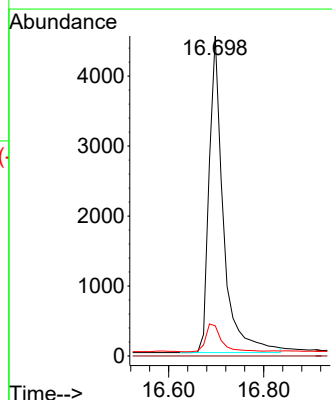
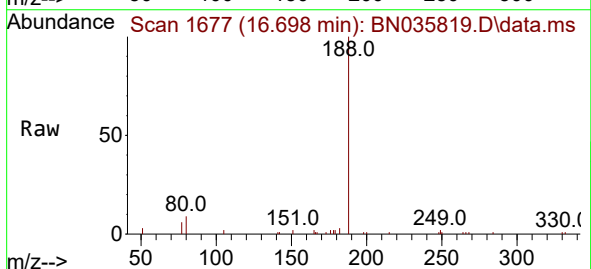
Tgt Ion:188 Resp: 9421

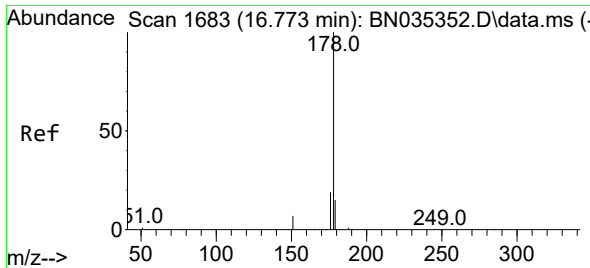
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 4.6 6.8#

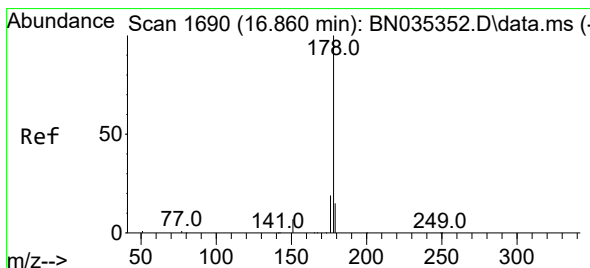
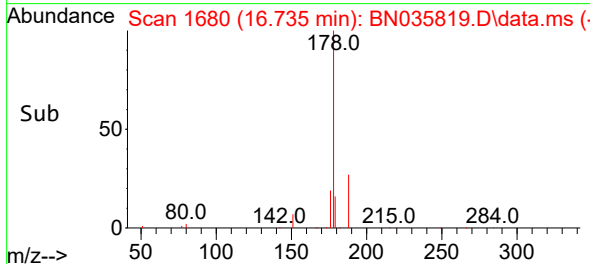
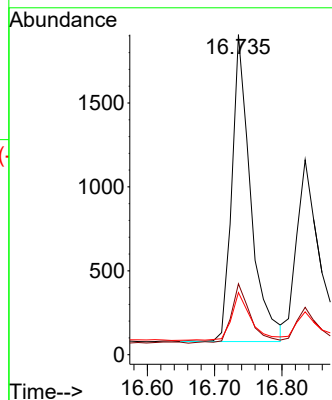
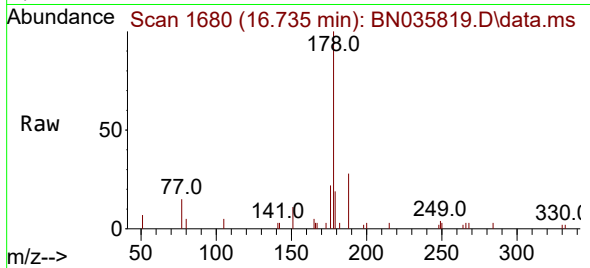




#25
Phenanthrene
Concen: 0.137 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

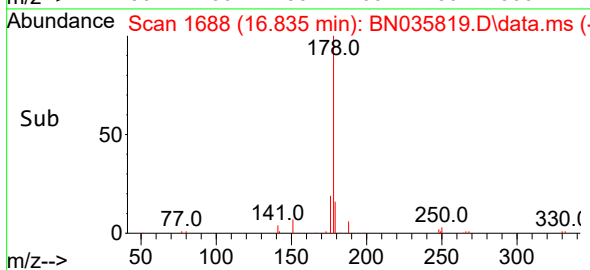
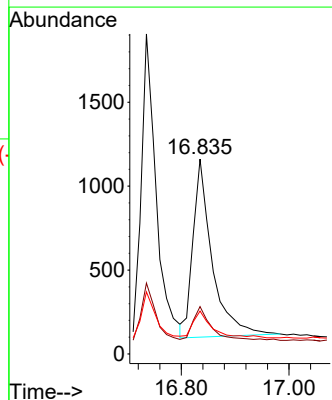
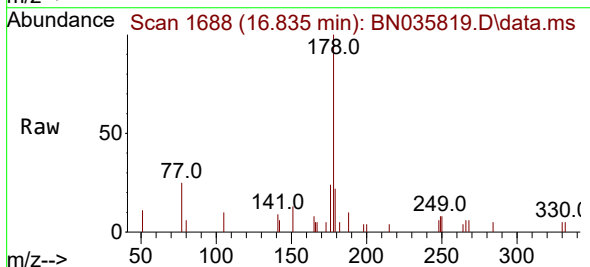
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

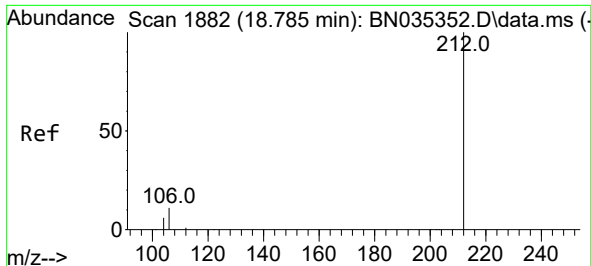
Tgt Ion:178 Resp: 3558
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 16.1 12.3 18.5



#26
Anthracene
Concen: 0.112 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 2627
Ion Ratio Lower Upper
178 100
176 19.8 15.0 22.6
179 15.8 12.6 18.8

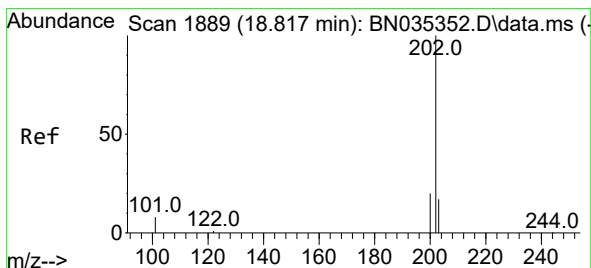
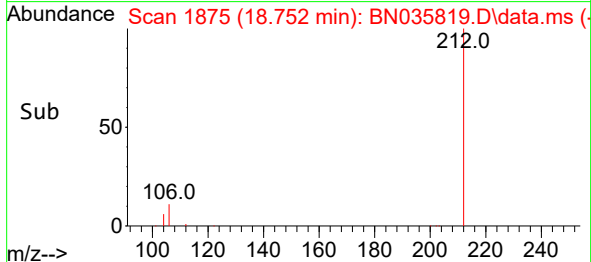
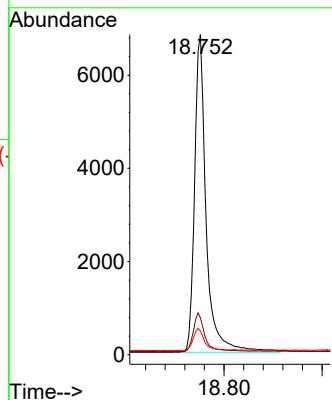
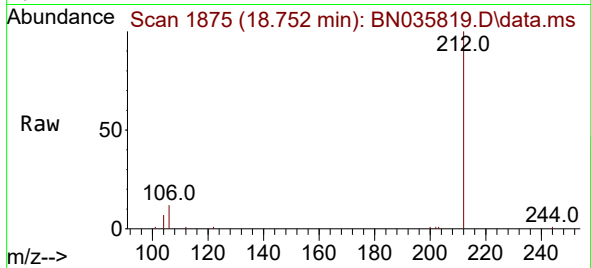




#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

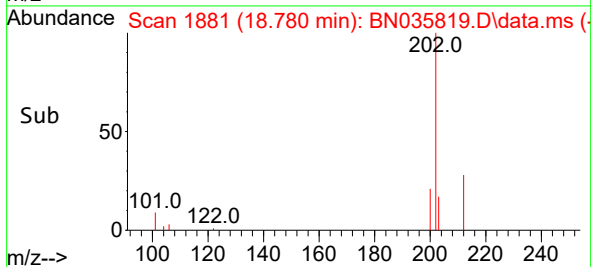
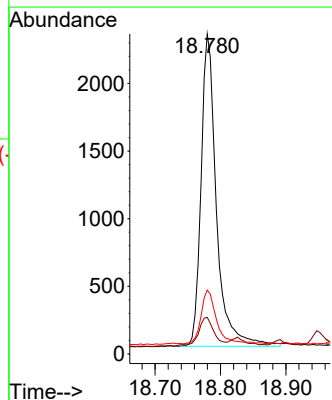
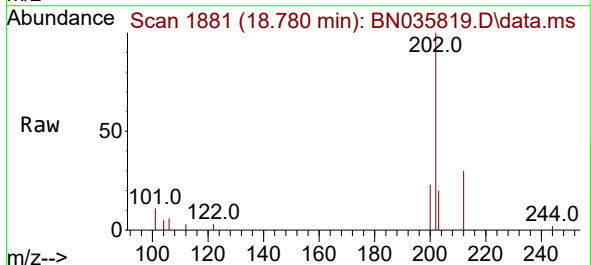
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

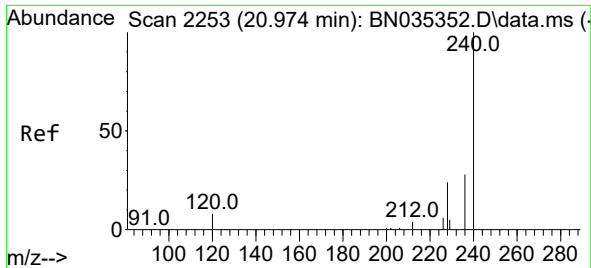
Tgt Ion:212 Resp: 11207
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 6.8 5.3 7.9



#28
Fluoranthene
Concen: 0.108 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3772
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.9 13.7 20.5

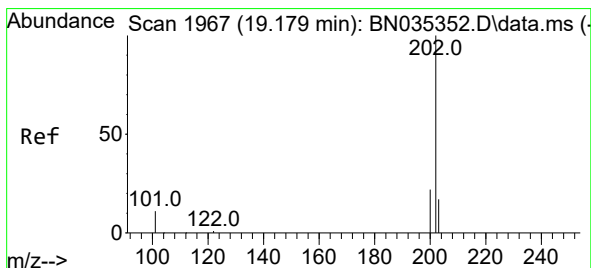
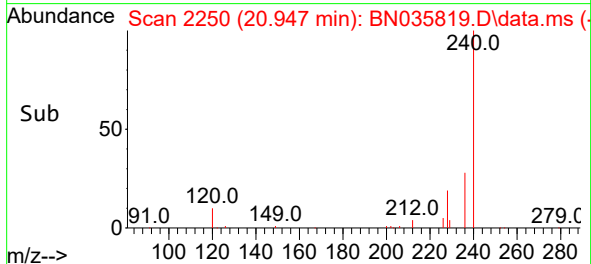
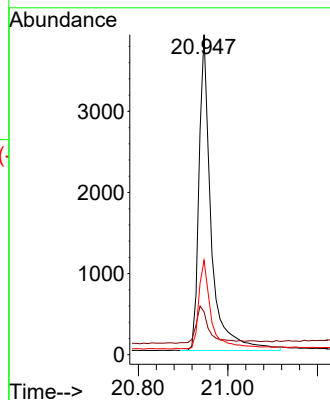
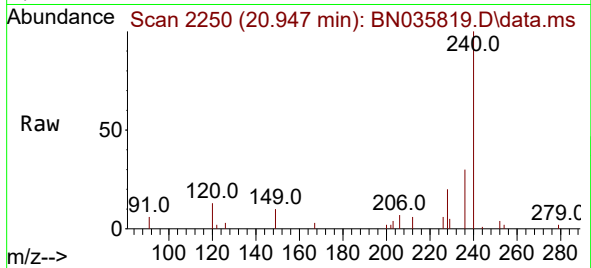




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

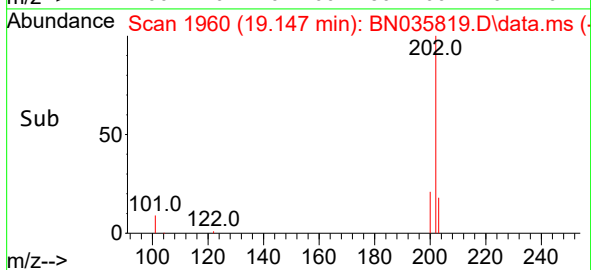
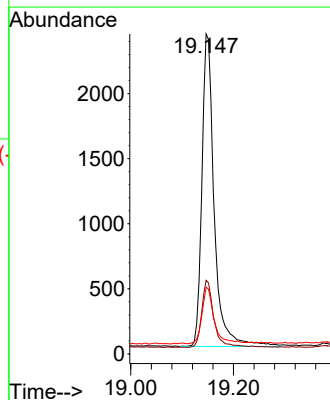
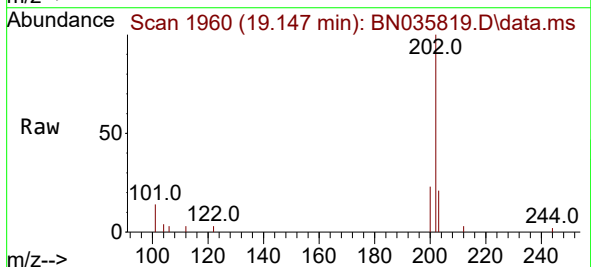
Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

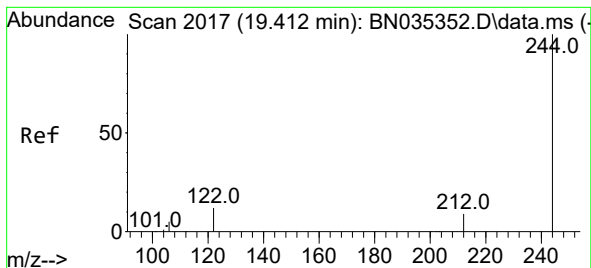
Tgt Ion:240 Resp: 7347
Ion Ratio Lower Upper
240 100
120 13.4 7.9 11.9#
236 29.5 22.9 34.3



#30
Pyrene
Concen: 0.147 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3996
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.573 ng

RT: 19.379 min Scan# 2017

Delta R.T. -0.010 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218

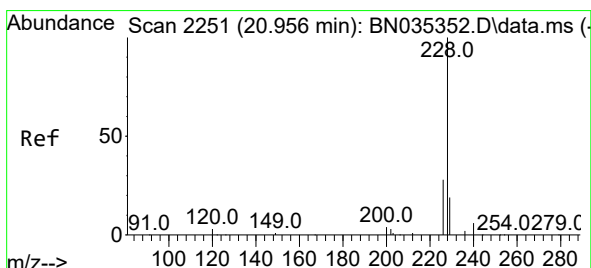
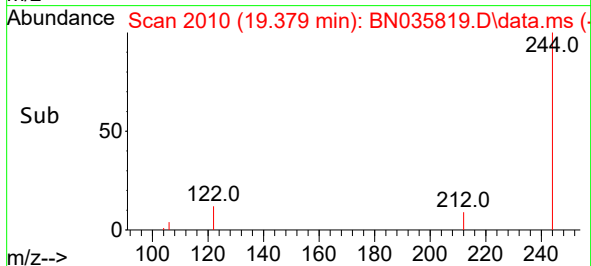
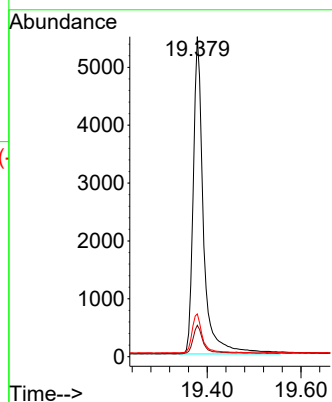
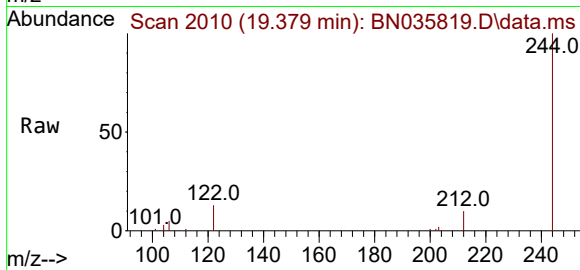
Tgt Ion:244 Resp: 8308

Ion Ratio Lower Upper

244 100

212 9.8 8.1 12.1

122 13.3 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.091 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.009 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

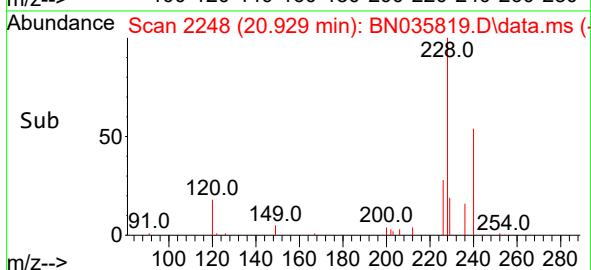
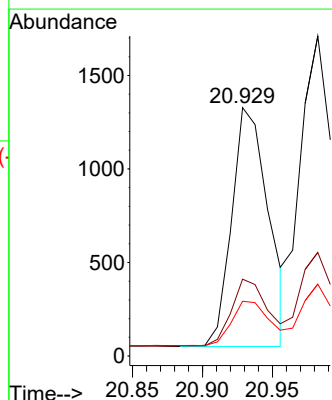
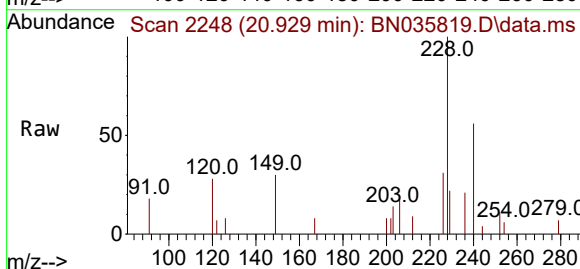
Tgt Ion:228 Resp: 2328

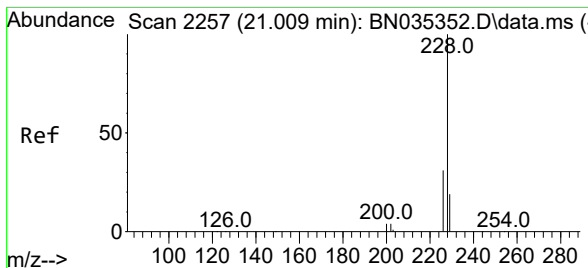
Ion Ratio Lower Upper

228 100

226 30.9 22.5 33.7

229 22.1 15.8 23.8





#33

Chrysene

Concen: 0.127 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218

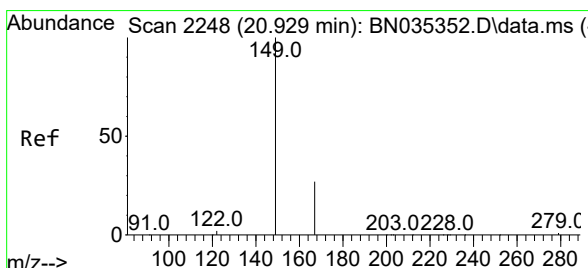
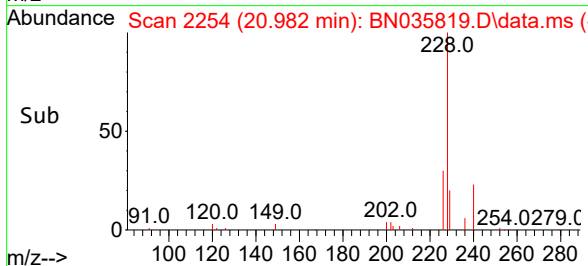
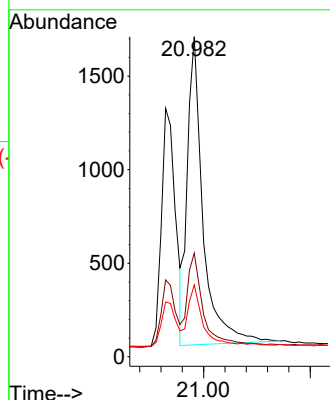
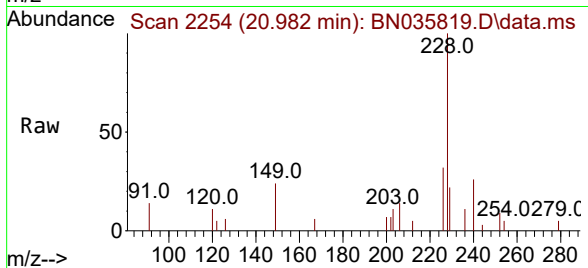
Tgt Ion:228 Resp: 3355

Ion Ratio Lower Upper

228 100

226 32.4 24.6 37.0

229 22.4 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.035 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

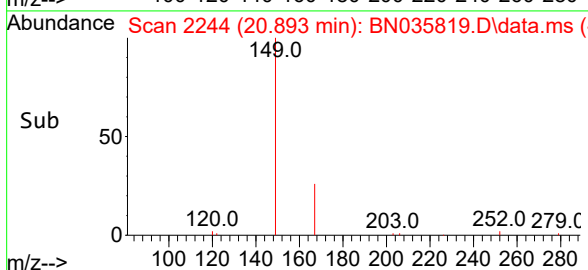
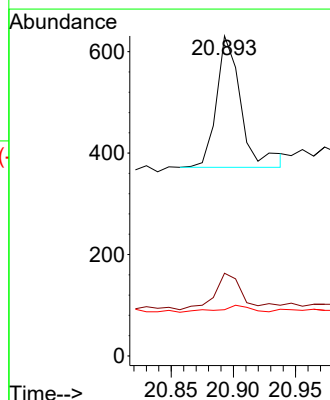
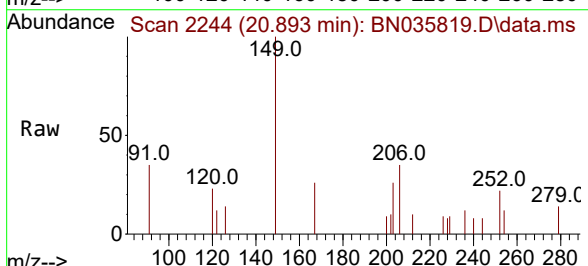
Tgt Ion:149 Resp: 357

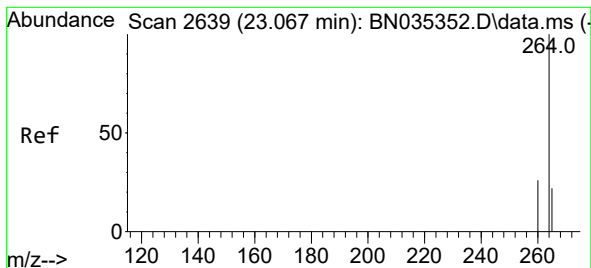
Ion Ratio Lower Upper

149 100

167 29.4 22.2 33.4

279 6.7 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: BN035819.D

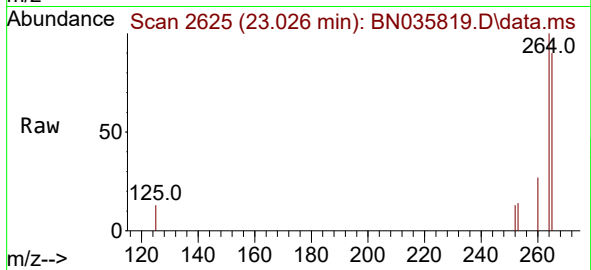
Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218



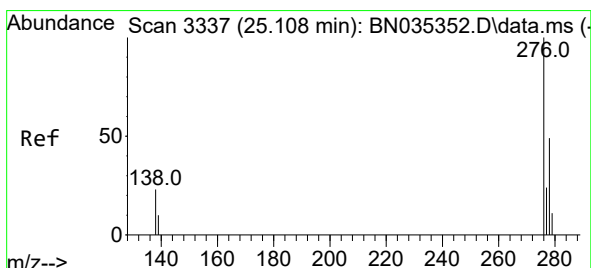
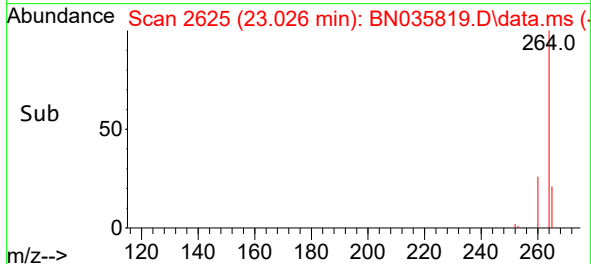
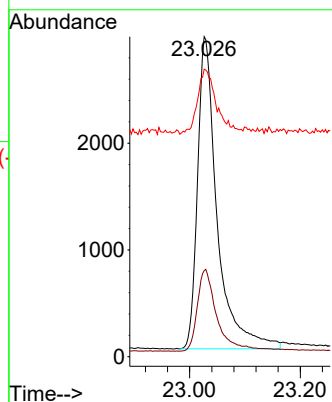
Tgt Ion:264 Resp: 7210

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

265 89.9 40.2 60.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.072 ng

RT: 25.067 min Scan# 3323

Delta R.T. -0.000 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

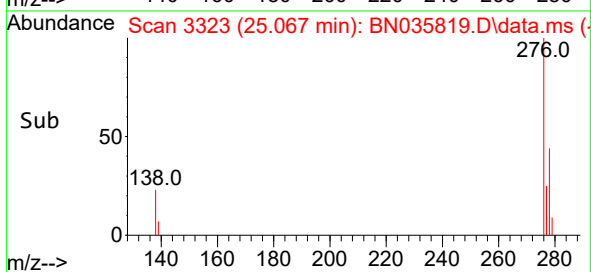
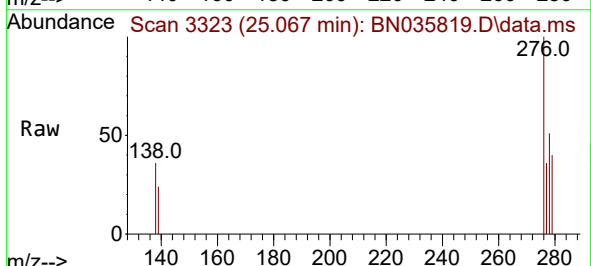
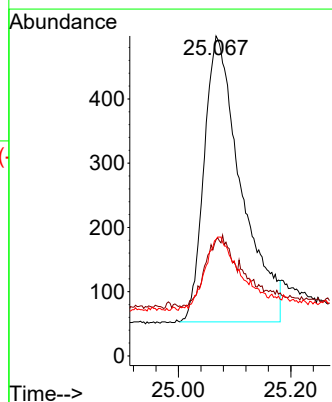
Tgt Ion:276 Resp: 2032

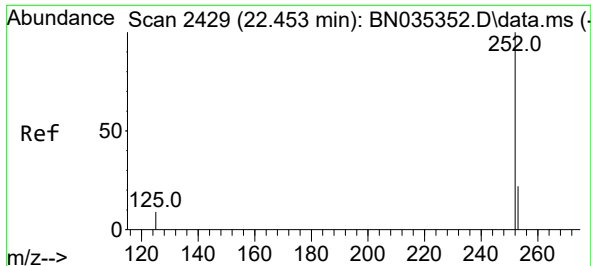
Ion Ratio Lower Upper

276 100

138 10.6 19.4 29.0#

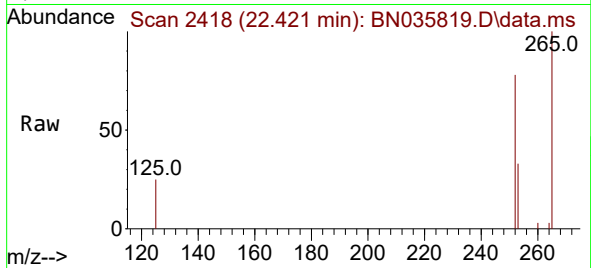
277 24.9 19.8 29.6



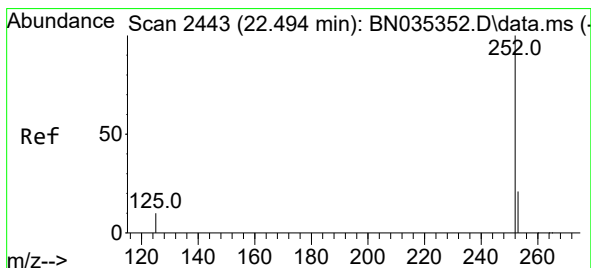
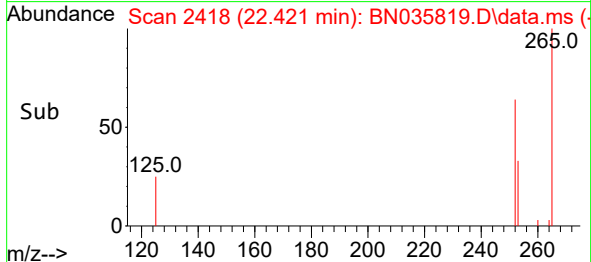
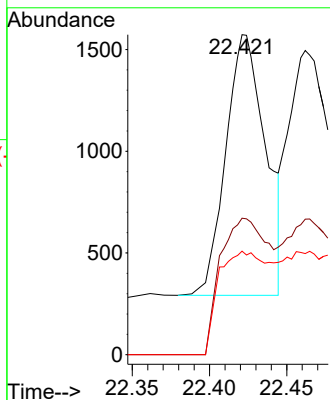


#37
Benzo(b)fluoranthene
Concen: 0.114 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT17411-20241218

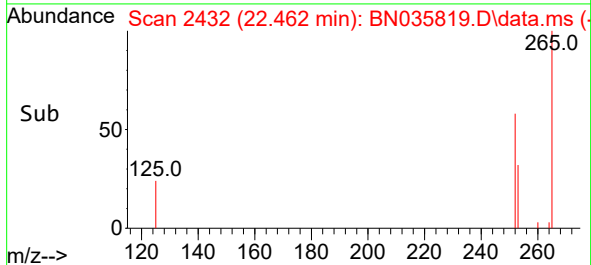
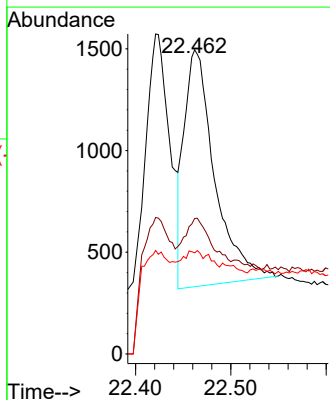
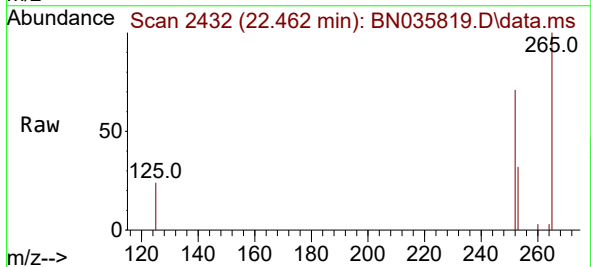


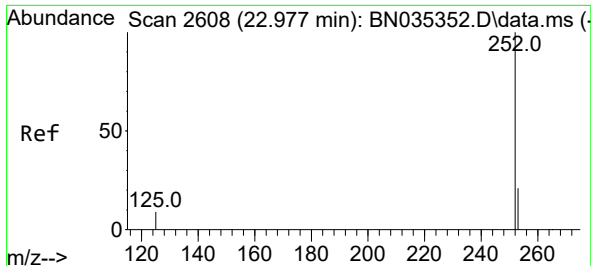
Tgt Ion:252 Resp: 3012
Ion Ratio Lower Upper
252 100
253 42.7 19.6 29.4#
125 32.4 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 2589
Ion Ratio Lower Upper
252 100
253 44.5 19.5 29.3#
125 33.2 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.085 ng

RT: 22.944 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035819.D

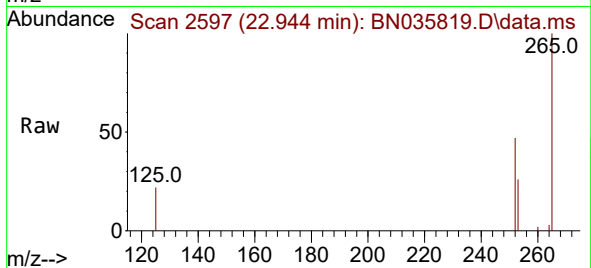
Acq: 24 Dec 2024 13:44

Instrument :

BNA_N

ClientSampleId :

TT17411-20241218



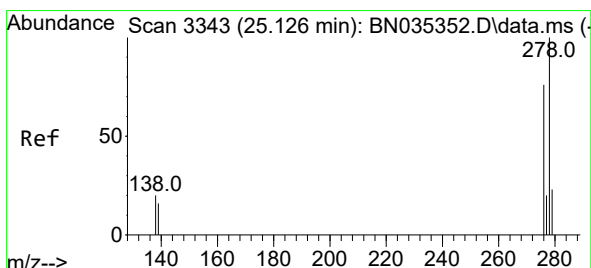
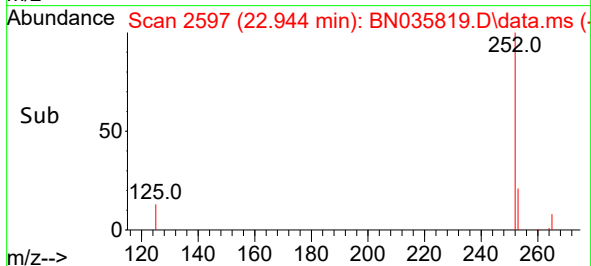
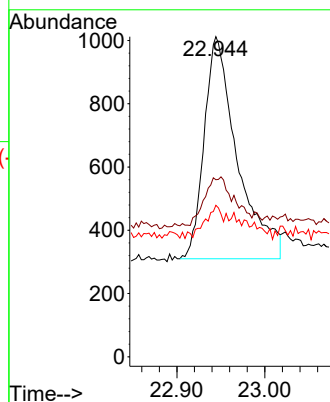
Tgt Ion:252 Resp: 1842

Ion Ratio Lower Upper

252 100

253 55.3 20.2 30.4#

125 47.3 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.070 ng

RT: 25.090 min Scan# 3331

Delta R.T. 0.008 min

Lab File: BN035819.D

Acq: 24 Dec 2024 13:44

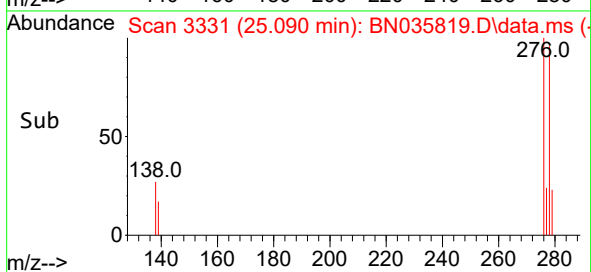
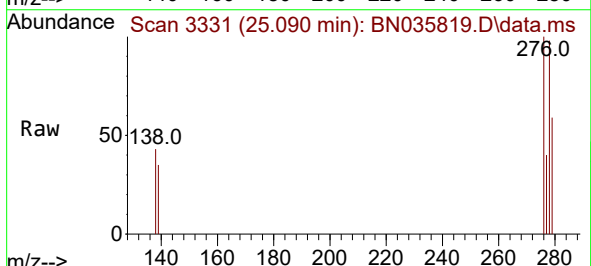
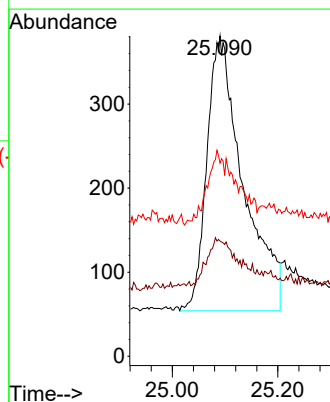
Tgt Ion:278 Resp: 1565

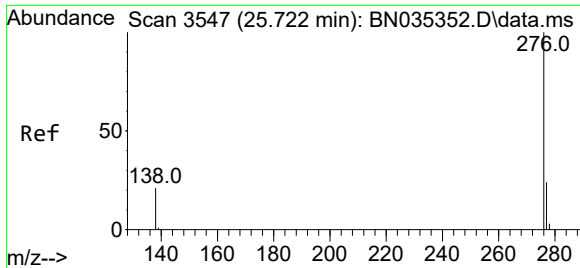
Ion Ratio Lower Upper

278 100

139 36.0 14.2 21.4#

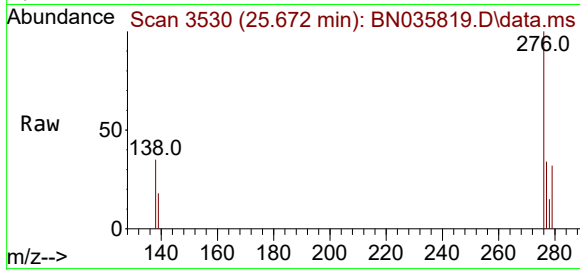
279 60.4 20.5 30.7#



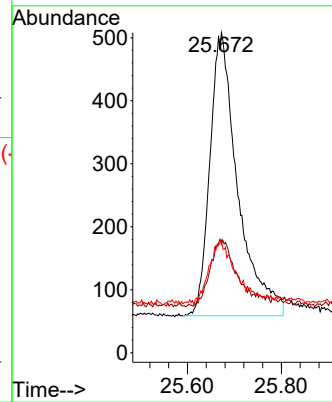
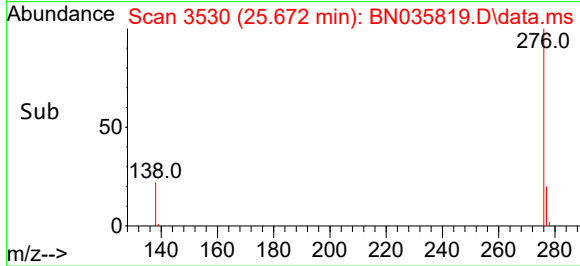


#41
 Benzo(g,h,i)perylene
 Concen: 0.080 ng
 RT: 25.672 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN035819.D
 Acq: 24 Dec 2024 13:44

Instrument :
 BNA_N
 ClientSampleId :
 TT17411-20241218



Tgt Ion:	276	Resp:	1852
Ion Ratio	Lower	Upper	
276	100		
277	33.9	19.9	29.9#
138	35.2	17.8	26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035820.D
 Acq On : 24 Dec 2024 14:19
 Operator : RC/JU
 Sample : P5376-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218

Quant Time: Dec 24 23:18:34 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

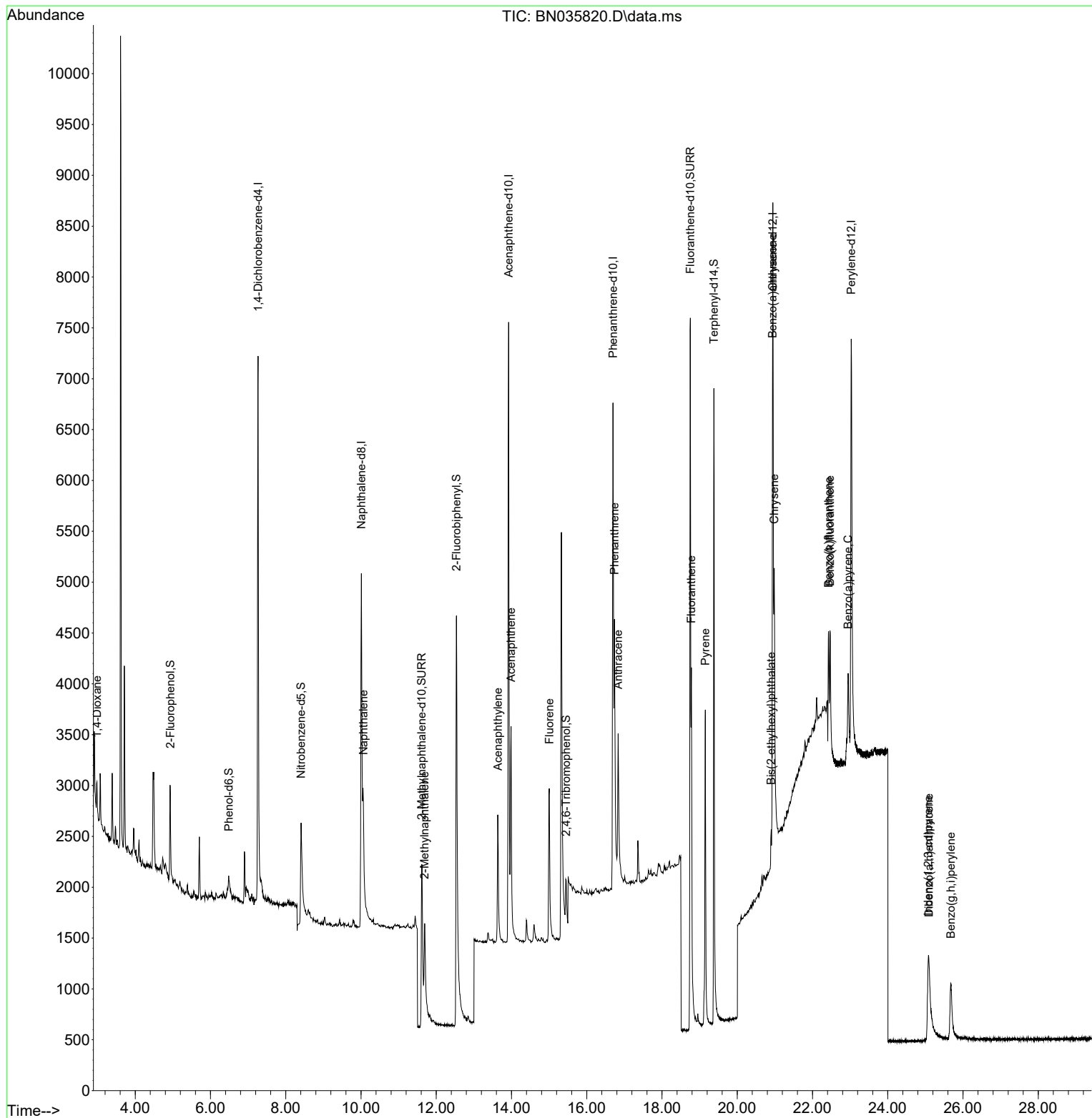
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3143	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7176	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4458	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8922	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7054	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6962	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	917	0.117	ng	0.00
5) Phenol-d6	6.484	99	441	0.047	ng	0.00
8) Nitrobenzene-d5	8.408	82	2026	0.462	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4238	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	621	0.196	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6805	0.404	ng	0.00
27) Fluoranthene-d10	18.752	212	10147	0.401	ng	0.00
31) Terphenyl-d14	19.379	244	7626	0.548	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.981	88	288	0.096	ng	# 82
9) Naphthalene	10.062	128	1741	0.092	ng	# 85
12) 2-Methylnaphthalene	11.692	142	1119	0.083	ng	# 90
16) Acenaphthylene	13.636	152	1929	0.103	ng	99
17) Acenaphthene	13.988	154	1200	0.097	ng	99
18) Fluorene	15.004	166	1564	0.088	ng	100
25) Phenanthrene	16.735	178	2911	0.119	ng	98
26) Anthracene	16.835	178	2107	0.095	ng	97
28) Fluoranthene	18.780	202	3244	0.098	ng	100
30) Pyrene	19.151	202	3281	0.126	ng	99
32) Benzo(a)anthracene	20.938	228	2057	0.083	ng	94
33) Chrysene	20.982	228	2719	0.107	ng	95
34) Bis(2-ethylhexyl)phtha...	20.902	149	426	0.044	ng	# 88
36) Indeno(1,2,3-cd)pyrene	25.076	276	1756	0.065	ng	# 79
37) Benzo(b)fluoranthene	22.427	252	2679	0.105	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	2384	0.095	ng	# 51
39) Benzo(a)pyrene	22.947	252	1551	0.074	ng	# 24
40) Dibenzo(a,h)anthracene	25.093	278	1312	0.061	ng	# 29
41) Benzo(g,h,i)perylene	25.675	276	1511	0.067	ng	# 72

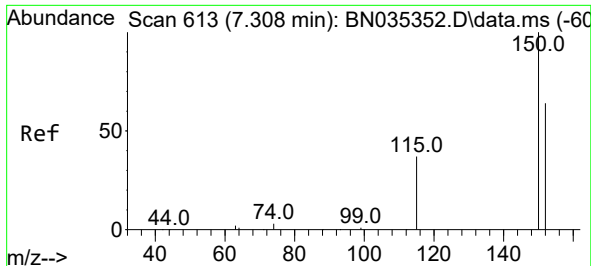
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

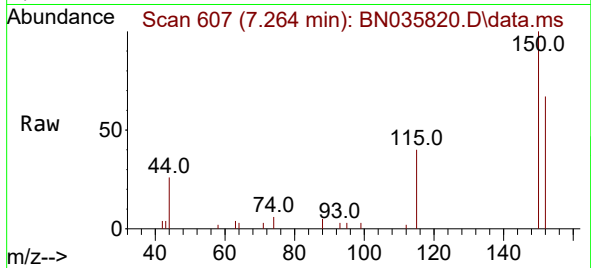
Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



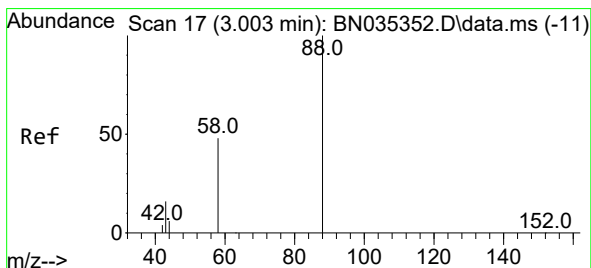
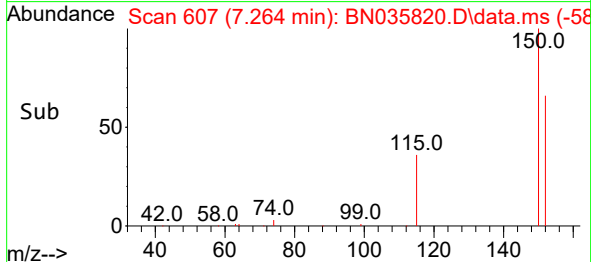
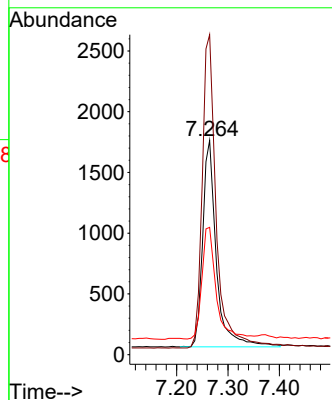


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

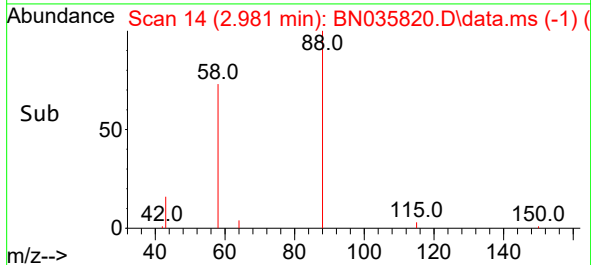
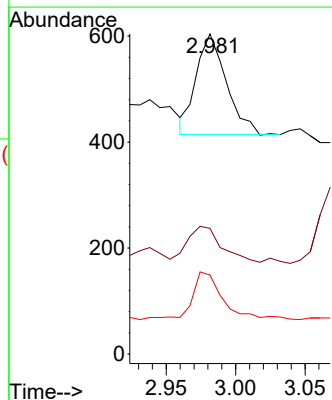
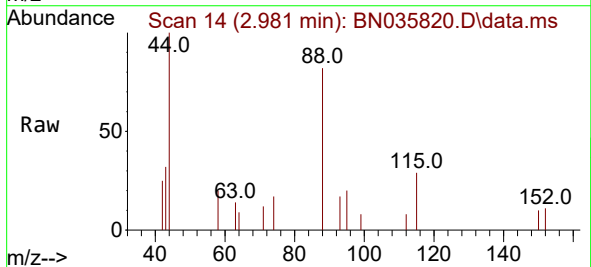


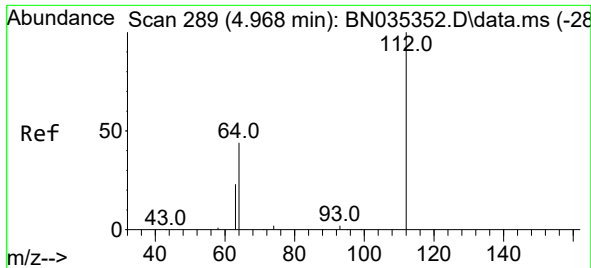
Tgt Ion:152 Resp: 3143
Ion Ratio Lower Upper
152 100
150 149.4 124.0 186.0
115 59.5 49.6 74.4



#2
1,4-Dioxane
Concen: 0.096 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 88 Resp: 288
Ion Ratio Lower Upper
88 100
43 39.6 17.2 25.8#
58 48.3 44.5 66.7

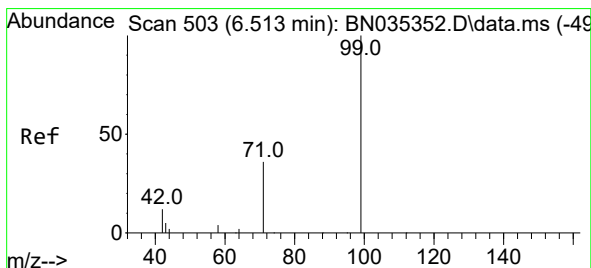
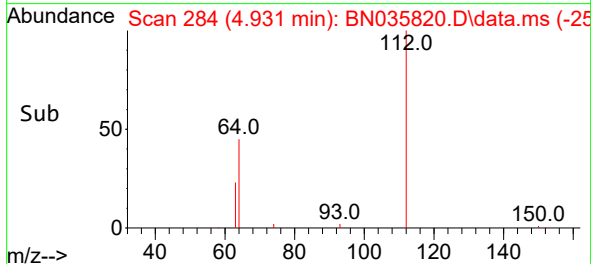
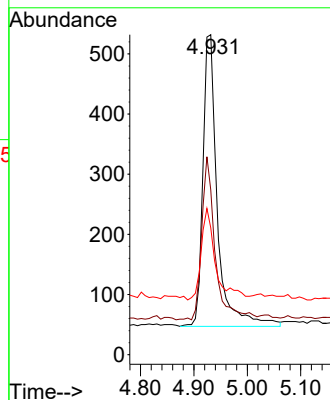
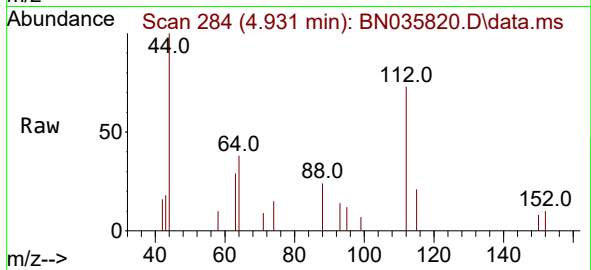




#4
2-Fluorophenol
Concen: 0.117 ng
RT: 4.931 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

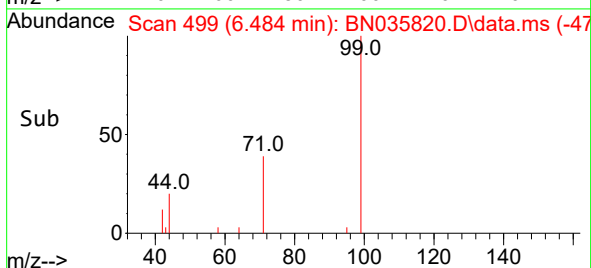
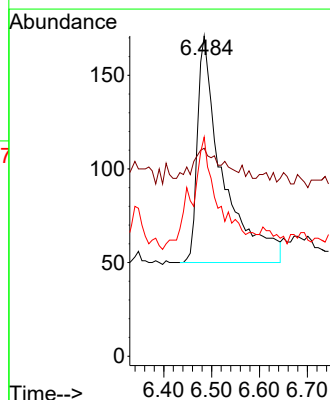
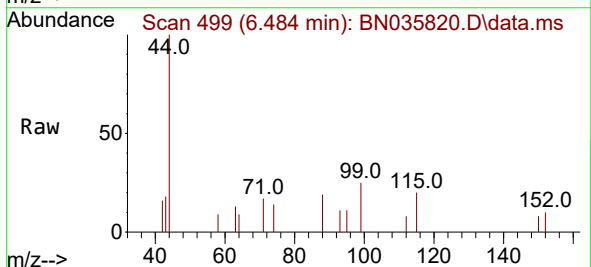
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

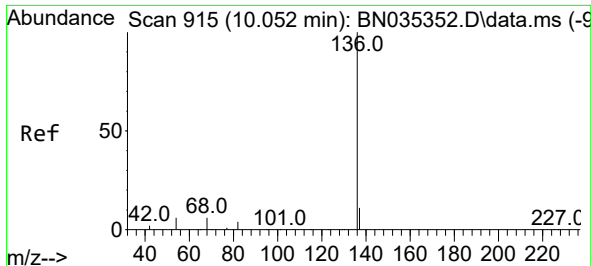
Tgt Ion:112 Resp: 917
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 31.2 21.0 31.6



#5
Phenol-d6
Concen: 0.047 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 99 Resp: 441
Ion Ratio Lower Upper
99 100
42 13.8 11.4 17.2
71 54.9 29.3 43.9#

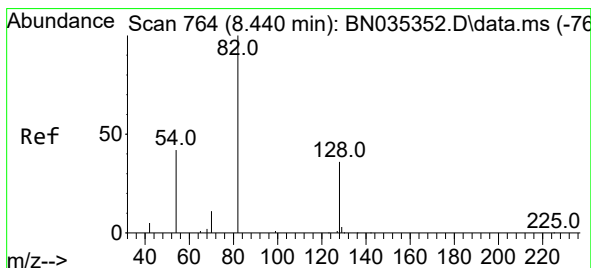
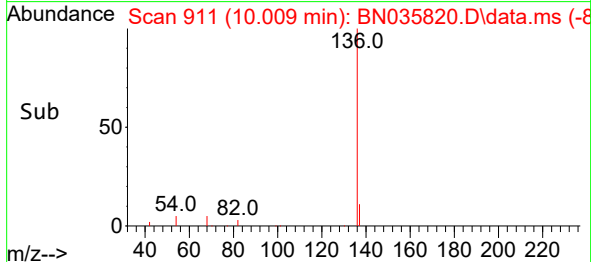
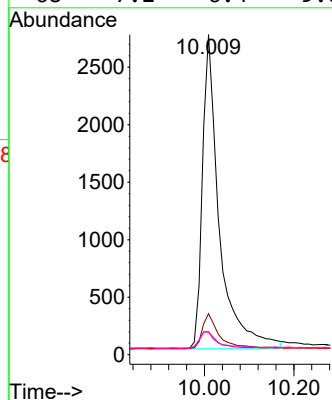
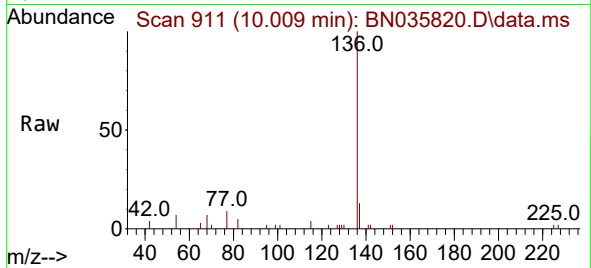




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

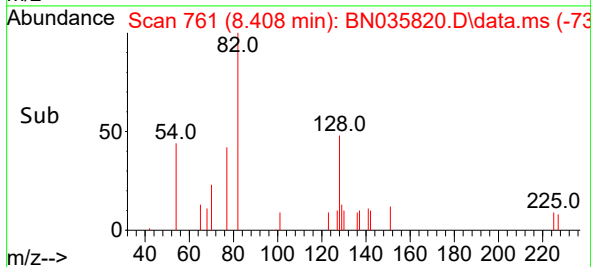
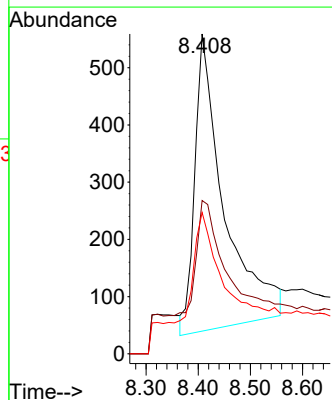
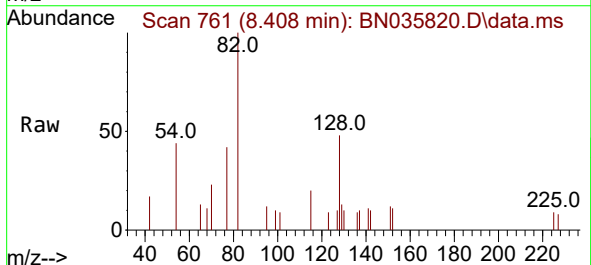
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

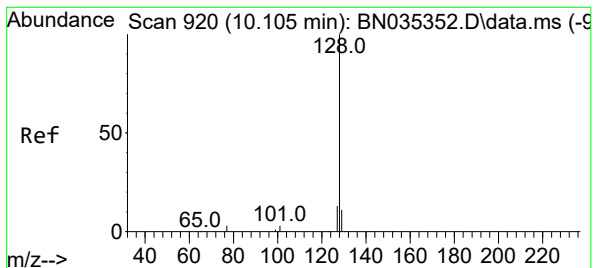
Tgt Ion:	136	Resp:	7176
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.2	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:	82	Resp:	2026
Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.2	36.7	55.1





#9

Naphthalene

Concen: 0.092 ng

RT: 10.062 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

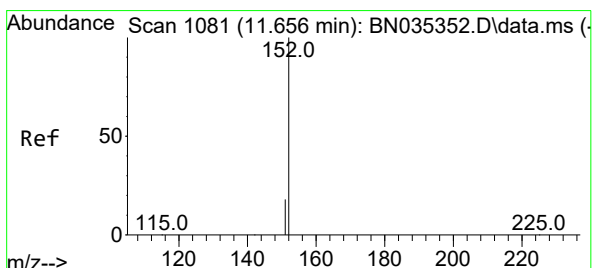
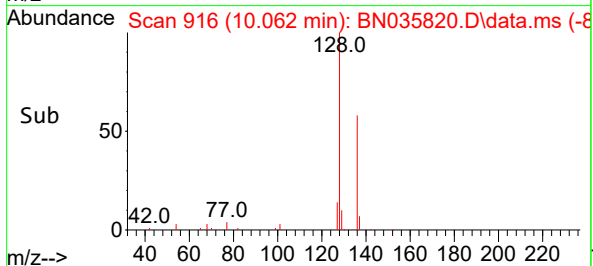
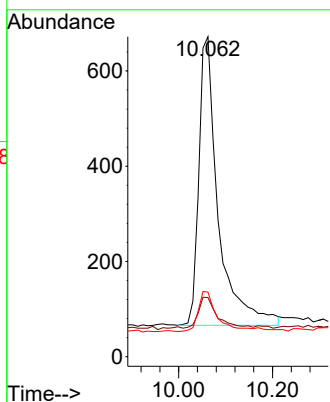
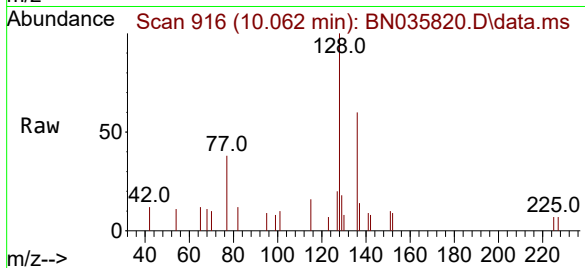
Tgt Ion:128 Resp: 1741

Ion Ratio Lower Upper

128 100

129 18.5 9.8 14.6#

127 20.2 11.4 17.2#



#11

2-Methylnaphthalene-d10

Concen: 0.377 ng

RT: 11.615 min Scan# 1073

Delta R.T. -0.005 min

Lab File: BN035820.D

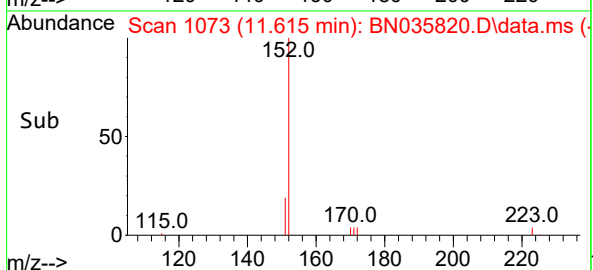
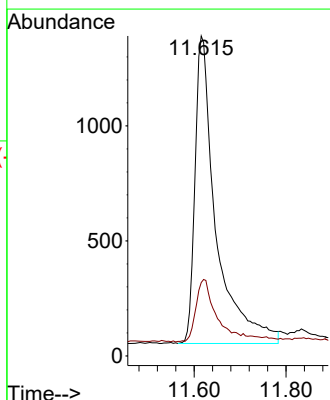
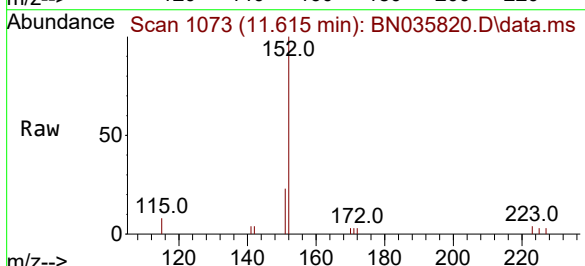
Acq: 24 Dec 2024 14:19

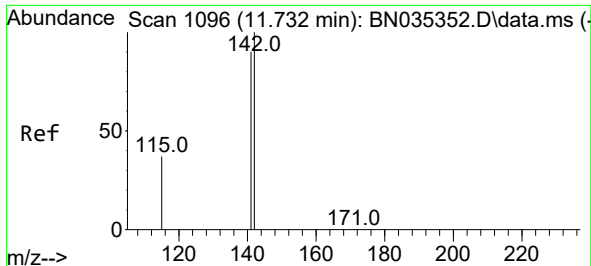
Tgt Ion:152 Resp: 4238

Ion Ratio Lower Upper

152 100

151 19.8 16.6 25.0

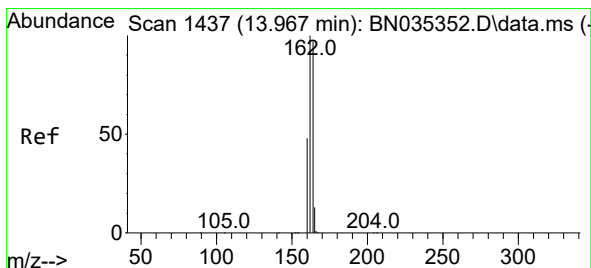
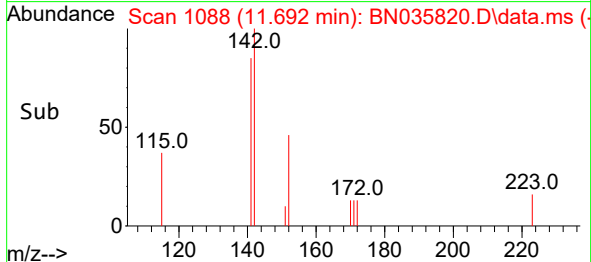
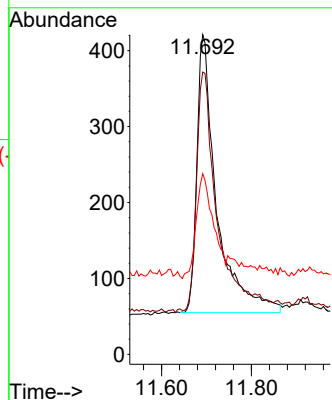
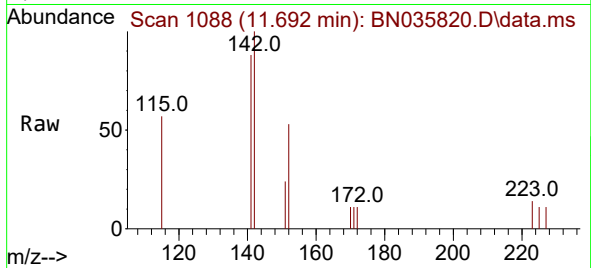




#12
2-Methylnaphthalene
Concen: 0.083 ng
RT: 11.692 min Scan# 1119
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

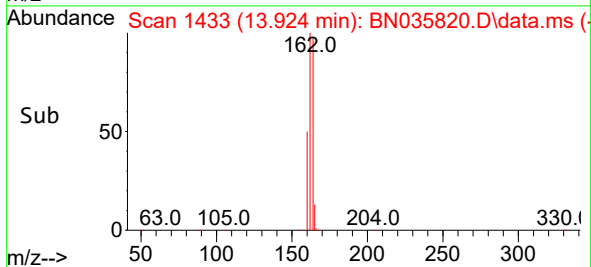
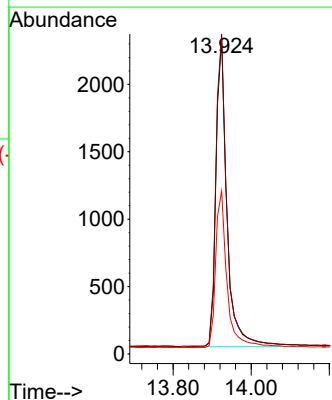
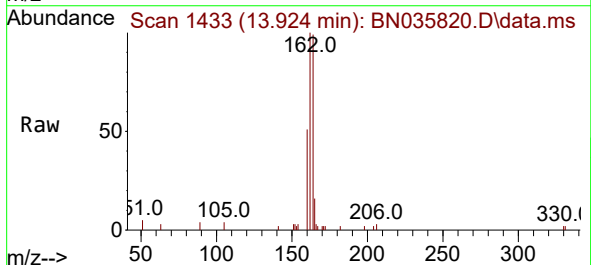
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

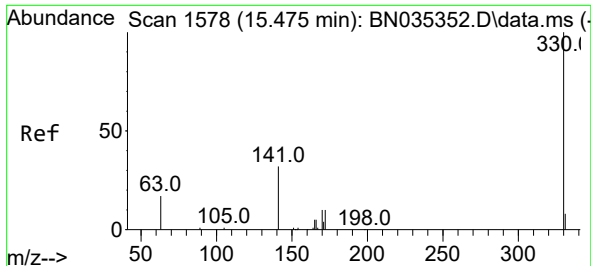
Tgt Ion:142 Resp: 1119
Ion Ratio Lower Upper
142 100
141 88.4 72.2 108.4
115 56.5 31.4 47.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:164 Resp: 4458
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 51.7 40.1 60.1

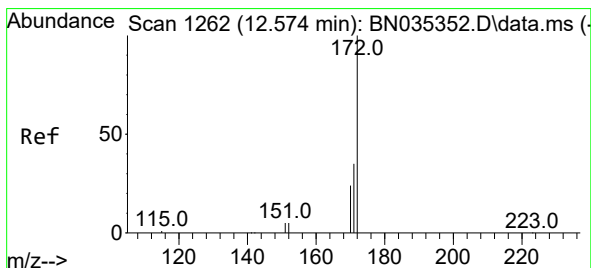
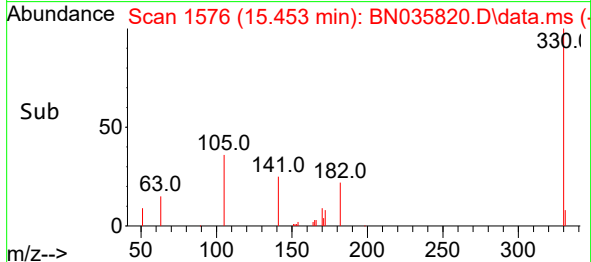
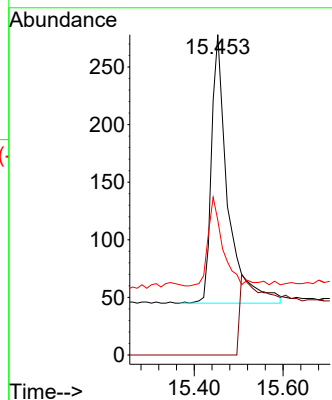
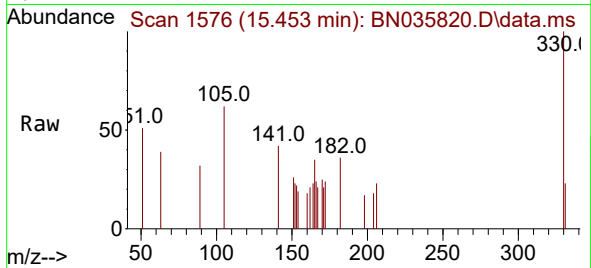




#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

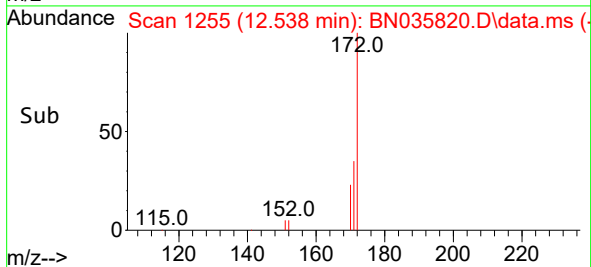
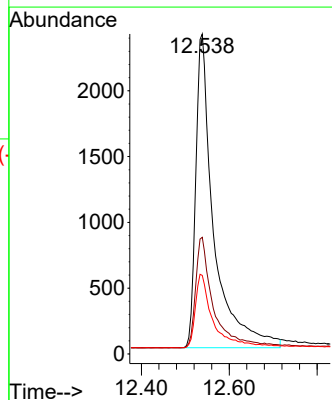
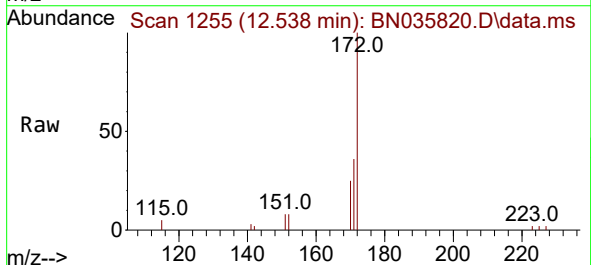
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

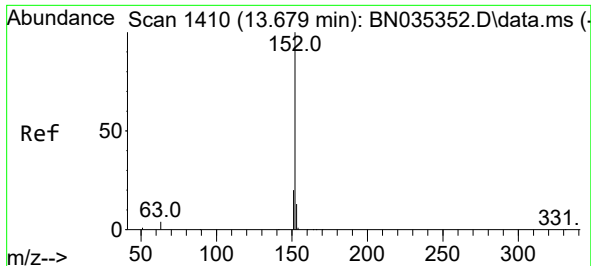
Tgt Ion:330 Resp: 621
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.7 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:172 Resp: 6805
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.5 19.8 29.8

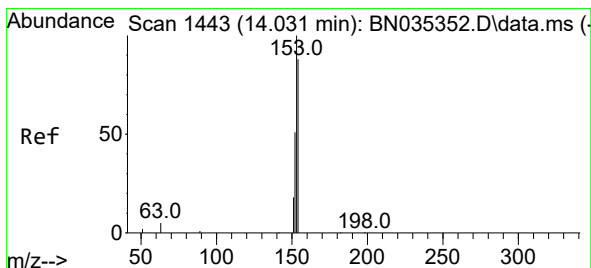
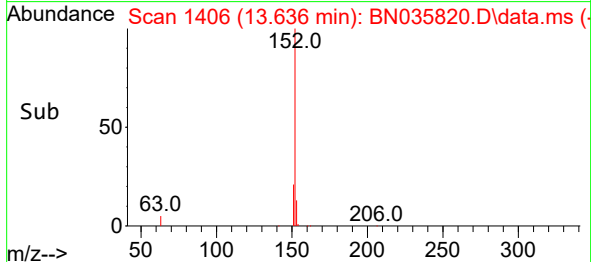
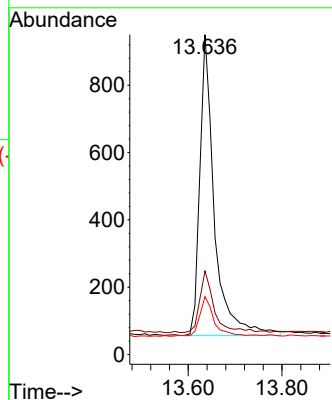
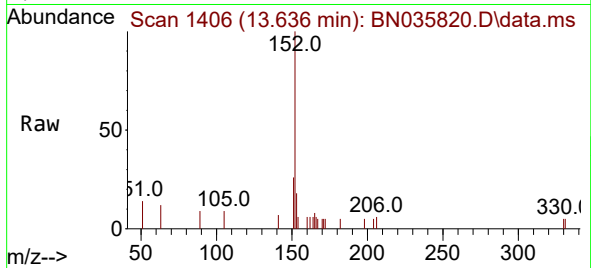




#16
Acenaphthylene
Concen: 0.103 ng
RT: 13.636 min Scan# 1410
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

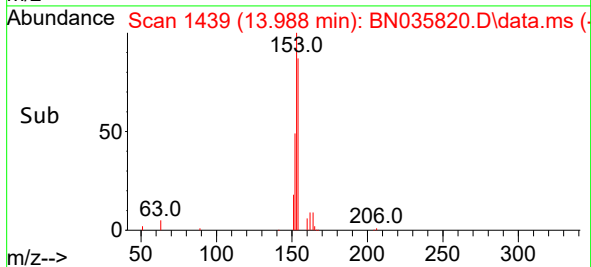
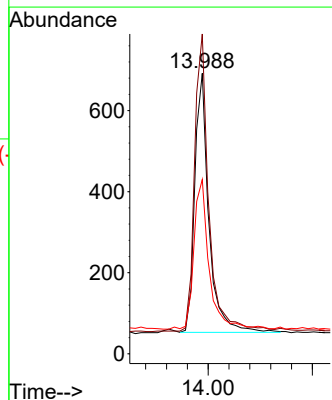
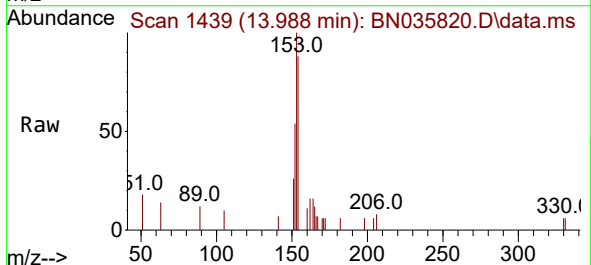
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

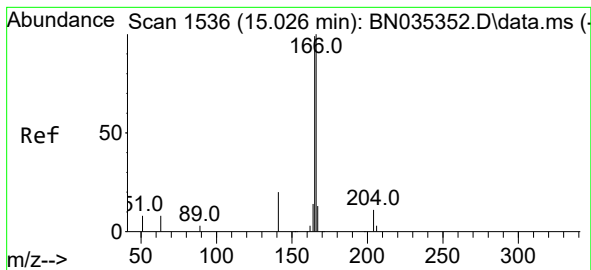
Tgt Ion:152 Resp: 1929
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 13.3 10.4 15.6



#17
Acenaphthene
Concen: 0.097 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:154 Resp: 1200
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 62.3 49.0 73.6





#18

Fluorene

Concen: 0.088 ng

RT: 15.004 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

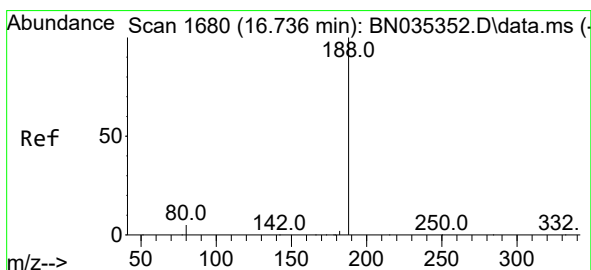
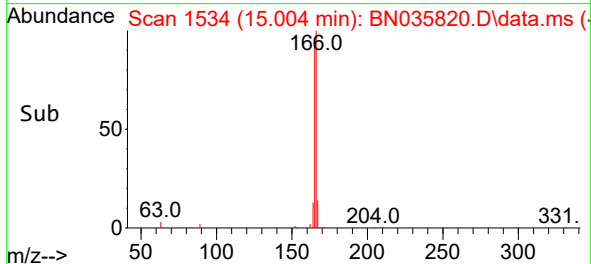
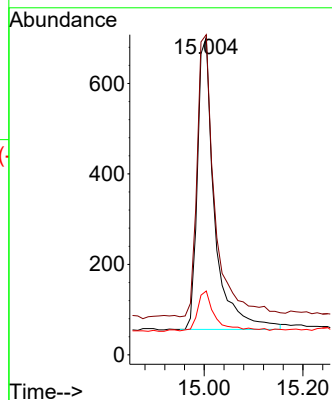
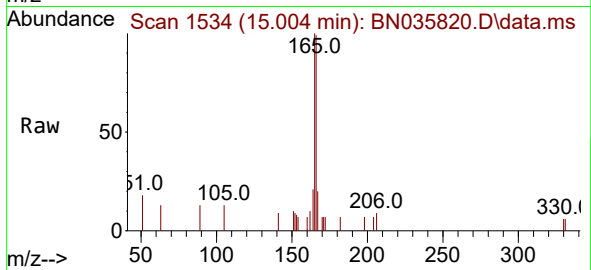
Tgt Ion:166 Resp: 1564

Ion Ratio Lower Upper

166 100

165 99.9 79.7 119.5

167 13.8 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: BN035820.D

Acq: 24 Dec 2024 14:19

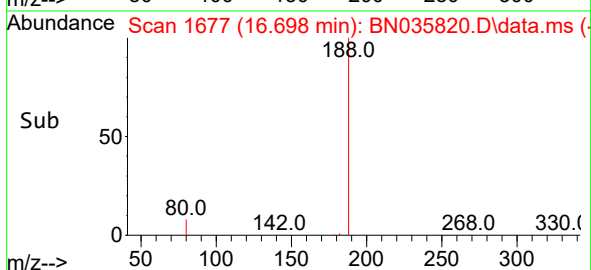
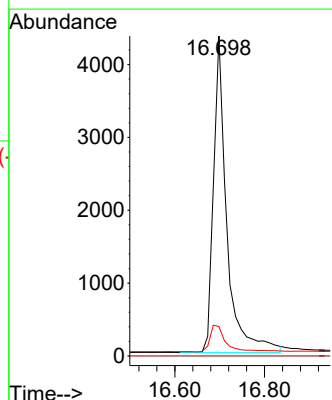
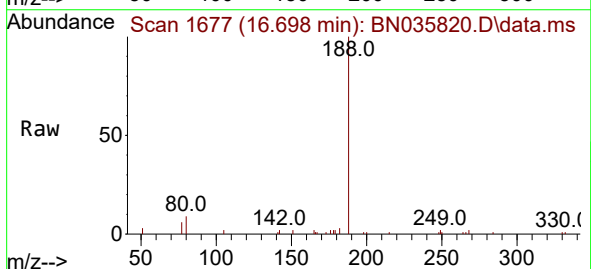
Tgt Ion:188 Resp: 8922

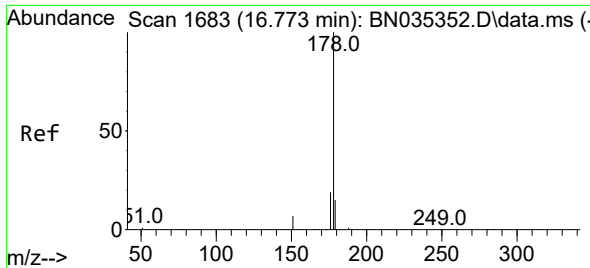
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 4.6 6.8#

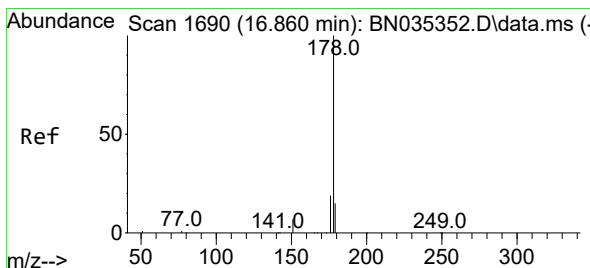
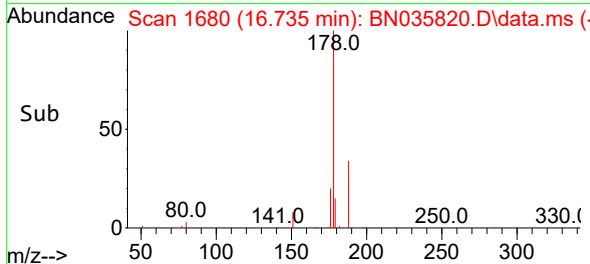
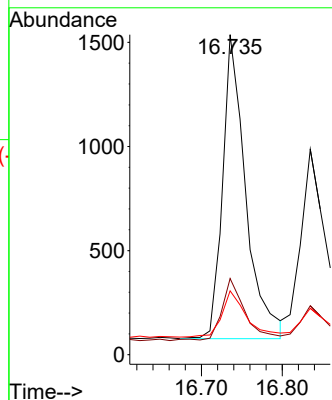
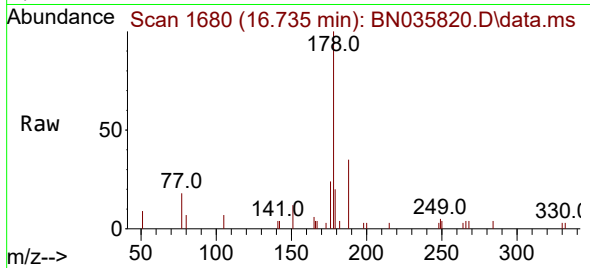




#25
Phenanthrene
Concen: 0.119 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

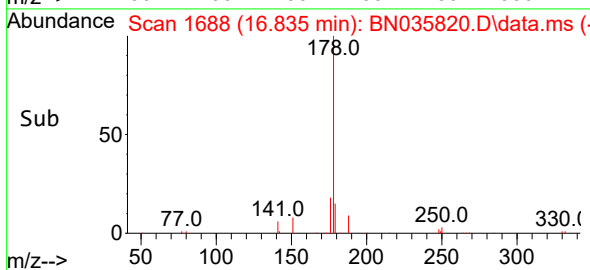
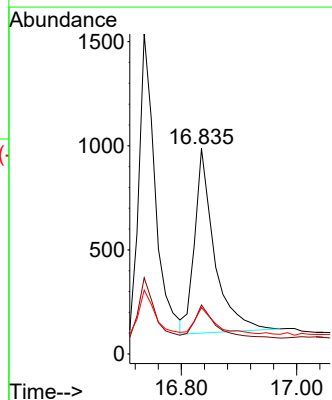
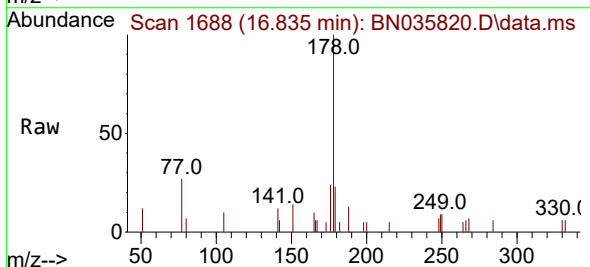
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

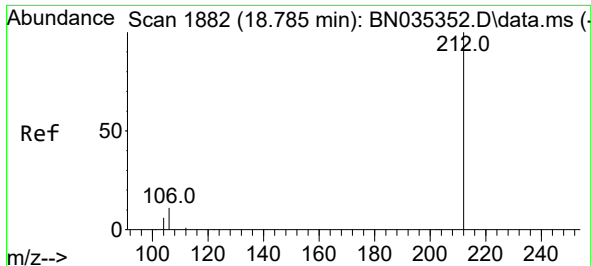
Tgt Ion:178 Resp: 2911
Ion Ratio Lower Upper
178 100
176 20.8 15.4 23.2
179 15.9 12.3 18.5



#26
Anthracene
Concen: 0.095 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:178 Resp: 2107
Ion Ratio Lower Upper
178 100
176 20.4 15.0 22.6
179 16.5 12.6 18.8

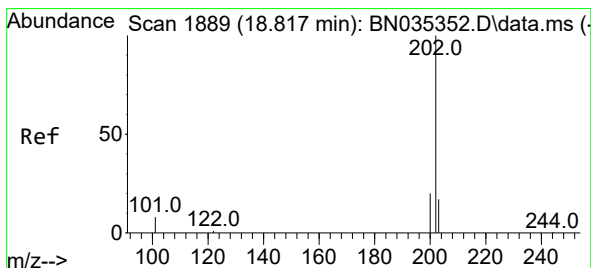
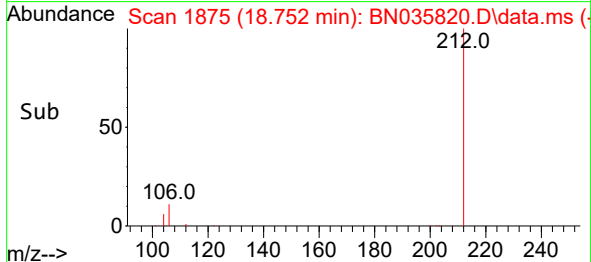
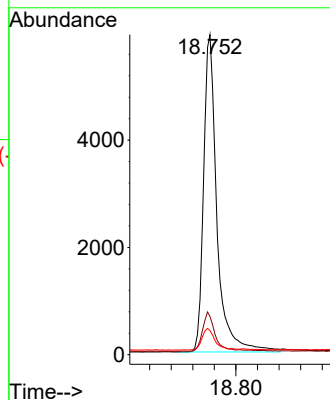
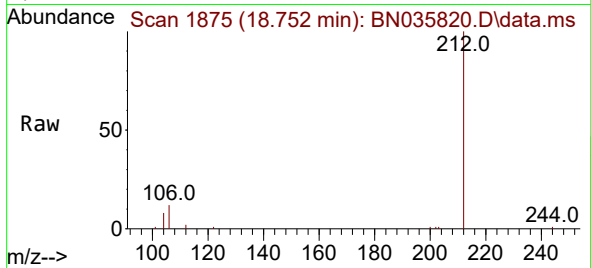




#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

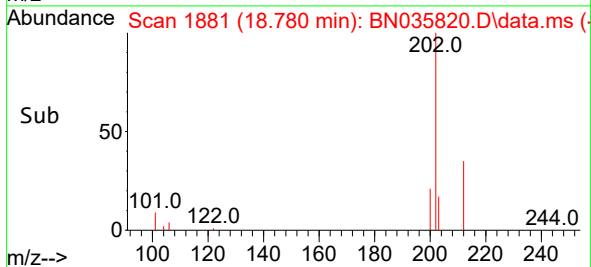
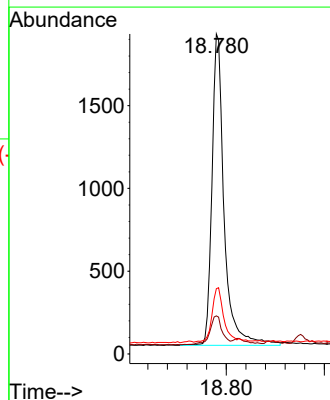
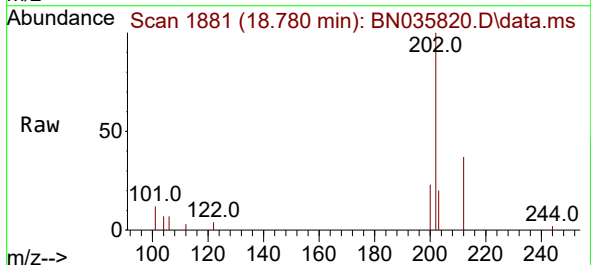
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

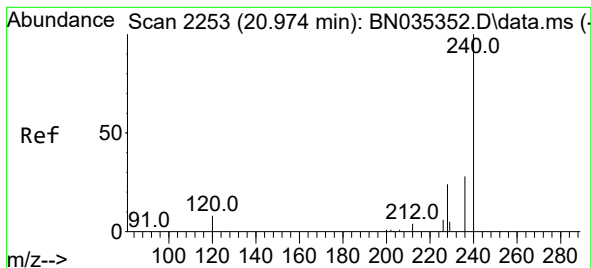
Tgt Ion:212 Resp: 10147
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 6.6 5.3 7.9



#28
Fluoranthene
Concen: 0.098 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3244
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

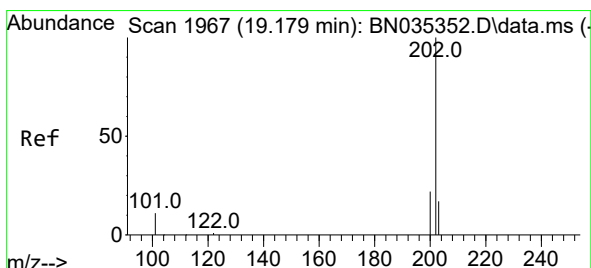
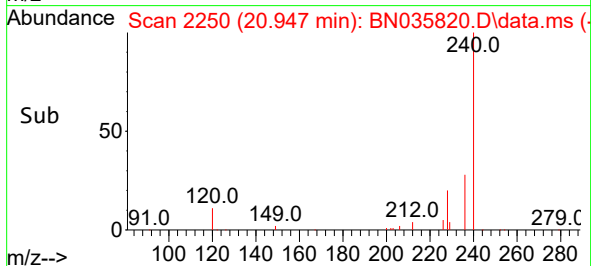
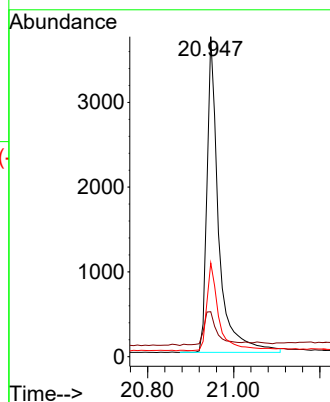
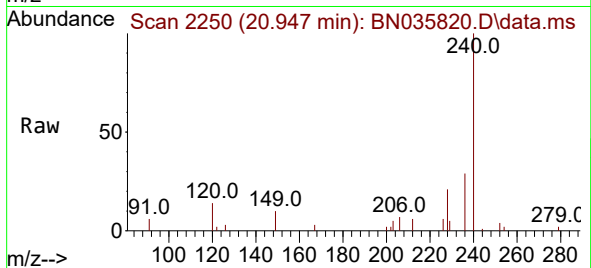
Tgt Ion:240 Resp: 7054

Ion Ratio Lower Upper

240 100

120 14.1 7.9 11.9#

236 29.3 22.9 34.3



#30

Pyrene

Concen: 0.126 ng

RT: 19.151 min Scan# 1961

Delta R.T. -0.010 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

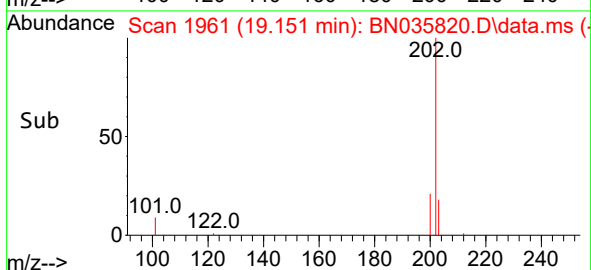
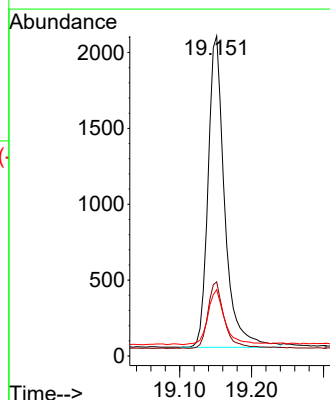
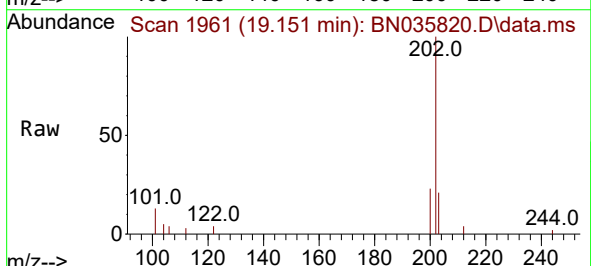
Tgt Ion:202 Resp: 3281

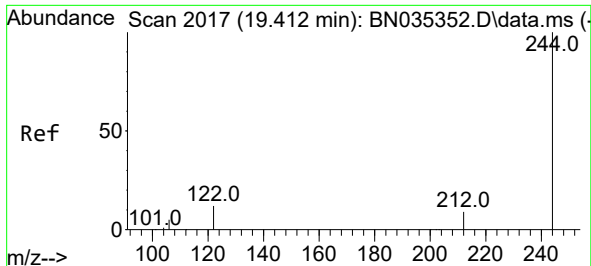
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 18.1 14.3 21.5

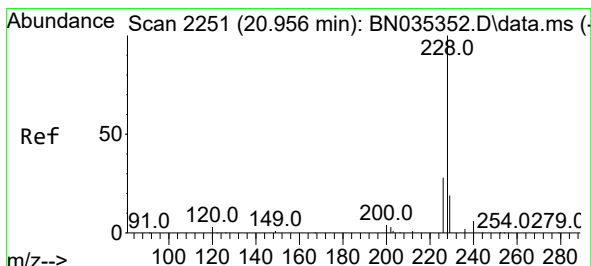
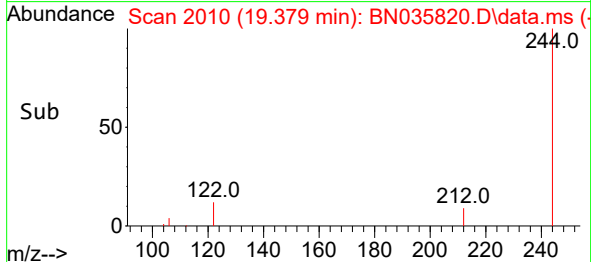
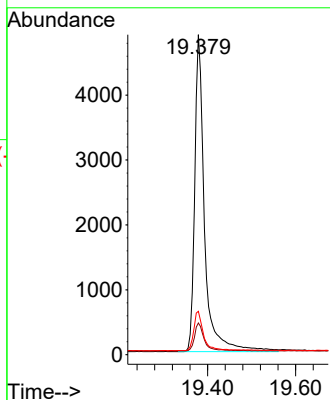
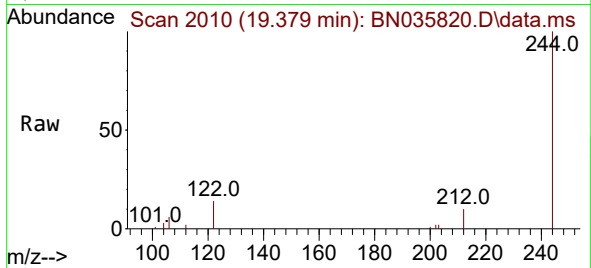




#31
 Terphenyl-d14
 Concen: 0.548 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.010 min
 Lab File: BN035820.D
 Acq: 24 Dec 2024 14:19

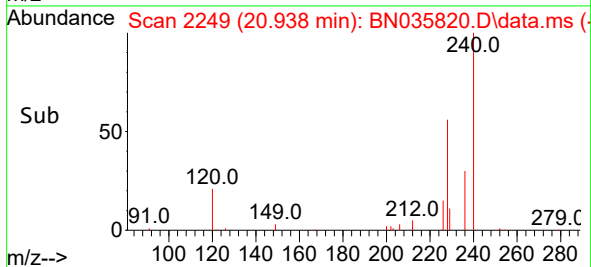
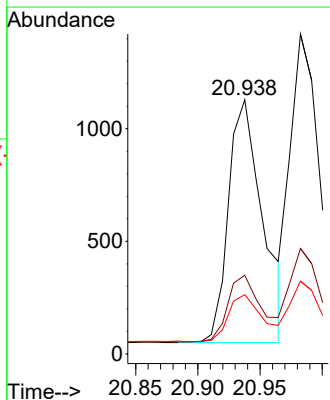
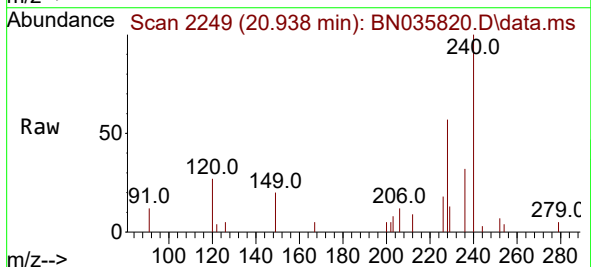
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218

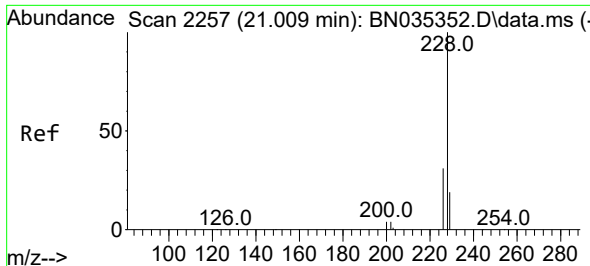
Tgt Ion:244 Resp: 7626
 Ion Ratio Lower Upper
 244 100
 212 9.9 8.1 12.1
 122 13.5 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.083 ng
 RT: 20.938 min Scan# 2249
 Delta R.T. -0.000 min
 Lab File: BN035820.D
 Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 2057
 Ion Ratio Lower Upper
 228 100
 226 30.9 22.5 33.7
 229 23.3 15.8 23.8





#33

Chrysene

Concen: 0.107 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218

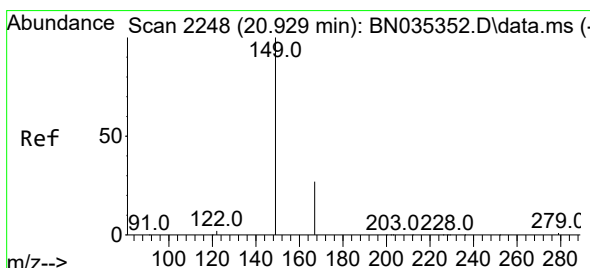
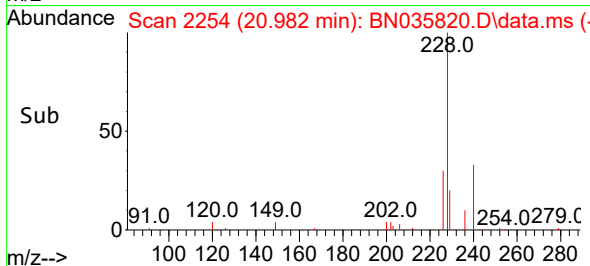
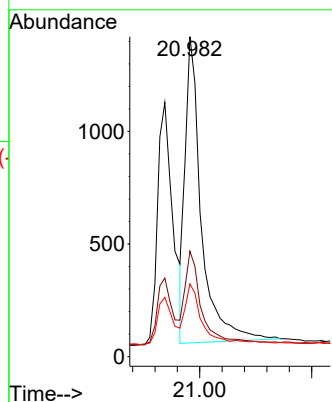
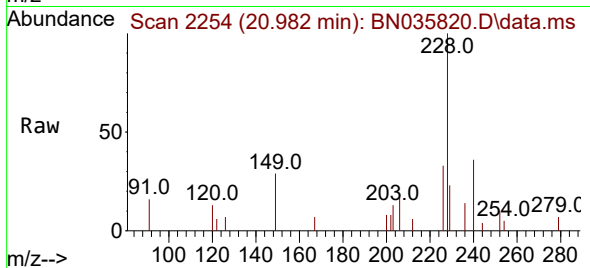
Tgt Ion:228 Resp: 2719

Ion Ratio Lower Upper

228 100

226 32.9 24.6 37.0

229 22.7 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.044 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

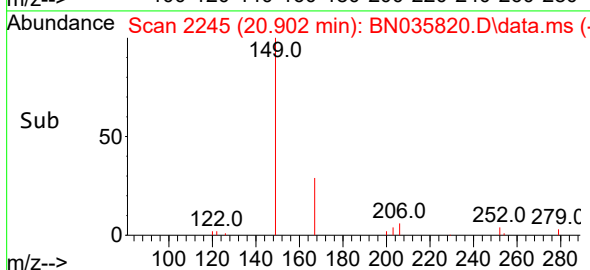
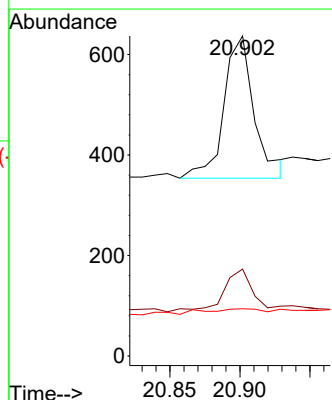
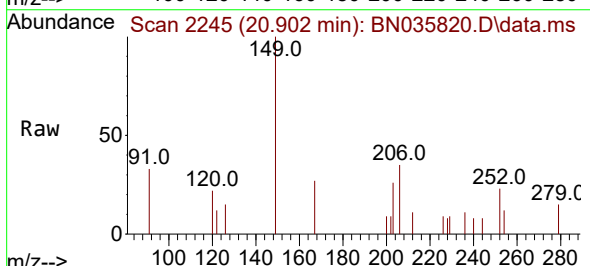
Tgt Ion:149 Resp: 426

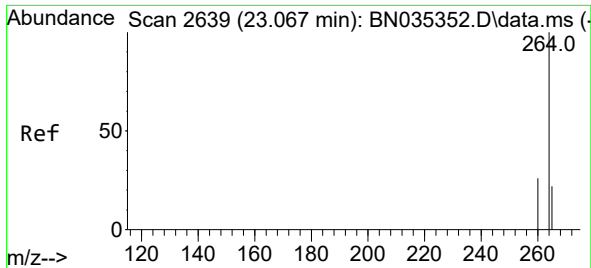
Ion Ratio Lower Upper

149 100

167 34.0 22.2 33.4#

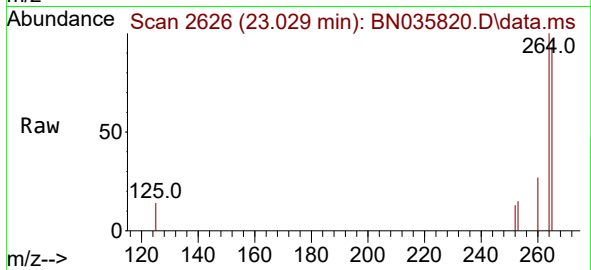
279 7.3 2.7 4.1#



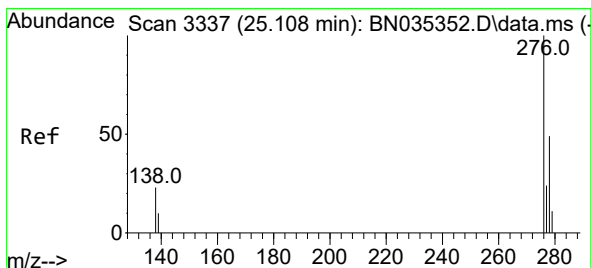
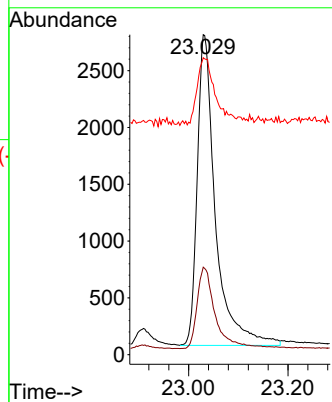
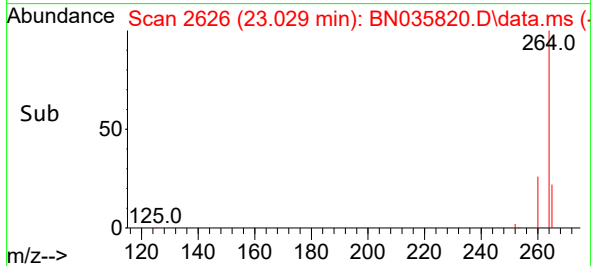


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

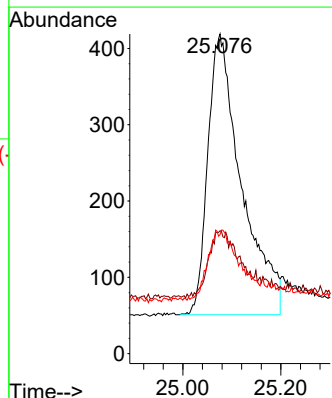
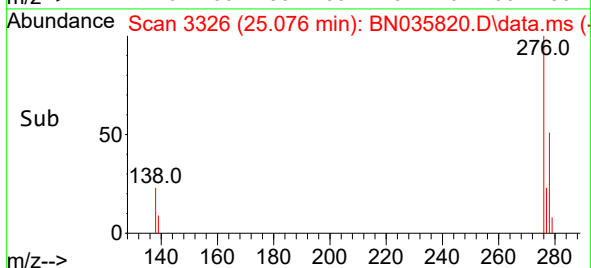
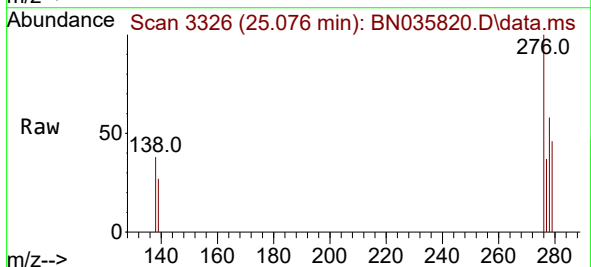


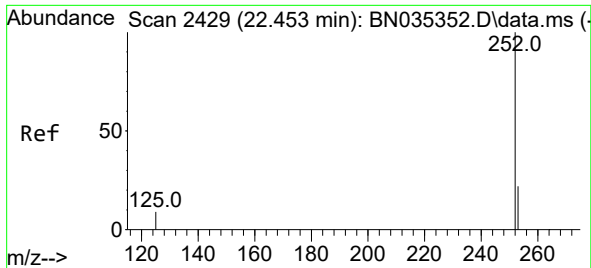
Tgt Ion:264 Resp: 6962
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 92.8 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.065 ng
RT: 25.076 min Scan# 3326
Delta R.T. 0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

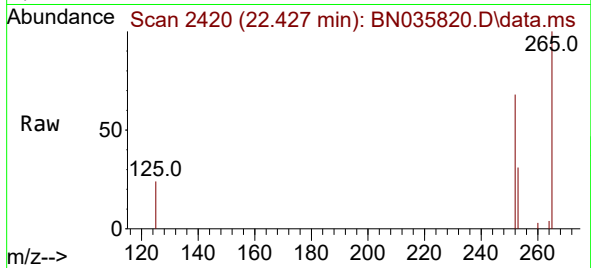
Tgt Ion:276 Resp: 1756
Ion Ratio Lower Upper
276 100
138 20.6 19.4 29.0
277 7.7 19.8 29.6#



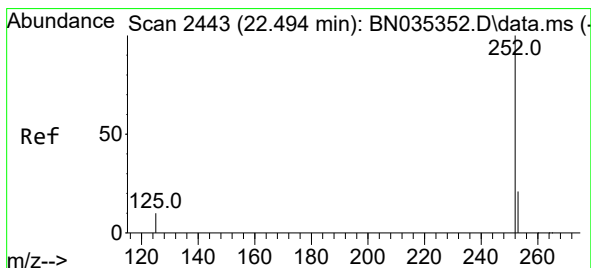
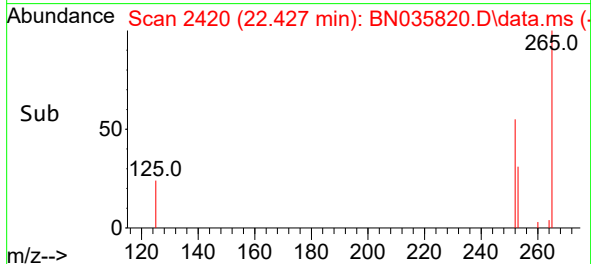
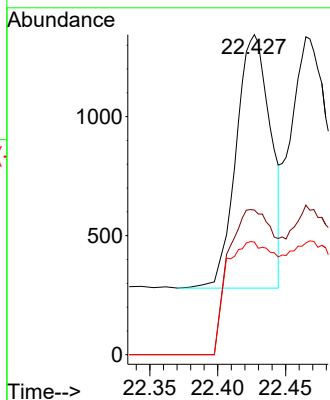


#37
Benzo(b)fluoranthene
Concen: 0.105 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

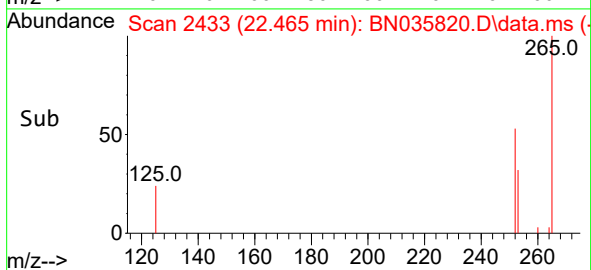
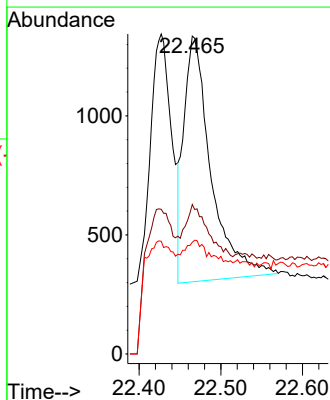
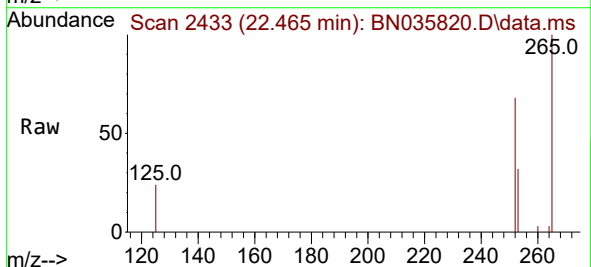


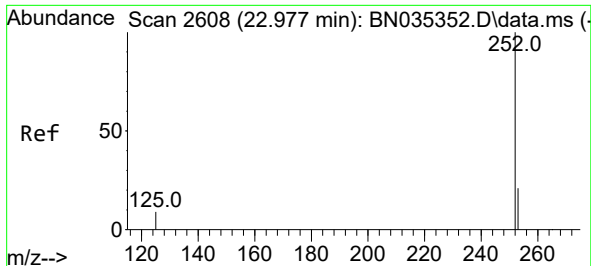
Tgt Ion:252 Resp: 2679
Ion Ratio Lower Upper
252 100
253 45.2 19.6 29.4#
125 35.2 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.095 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 2384
Ion Ratio Lower Upper
252 100
253 47.0 19.5 29.3#
125 35.1 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.074 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035820.D

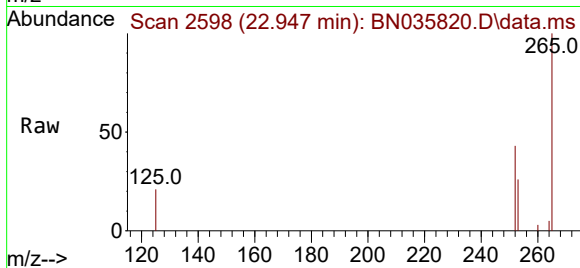
Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218



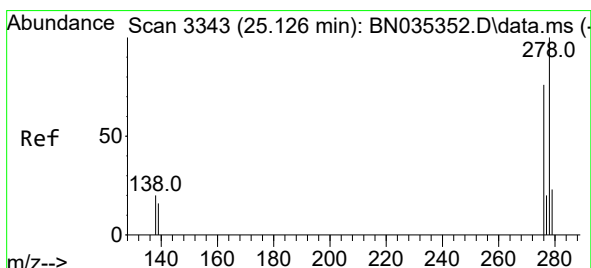
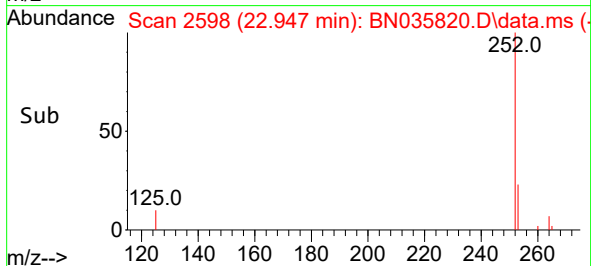
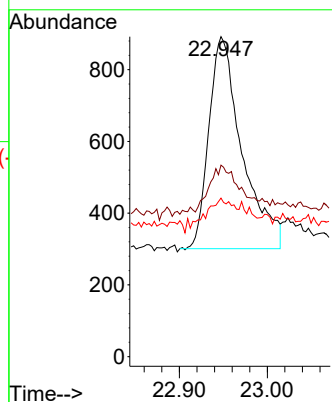
Tgt Ion:252 Resp: 1551

Ion Ratio Lower Upper

252 100

253 59.9 20.2 30.4#

125 49.6 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.061 ng

RT: 25.093 min Scan# 3332

Delta R.T. 0.011 min

Lab File: BN035820.D

Acq: 24 Dec 2024 14:19

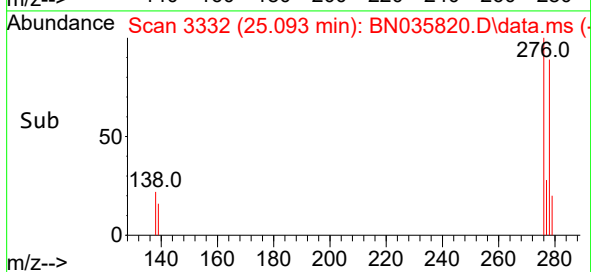
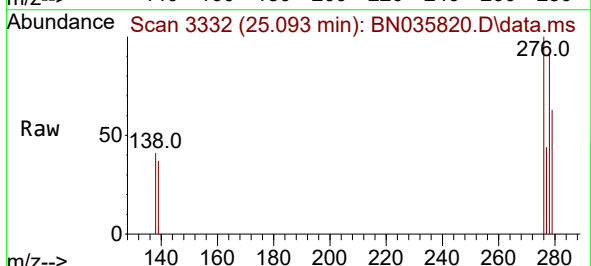
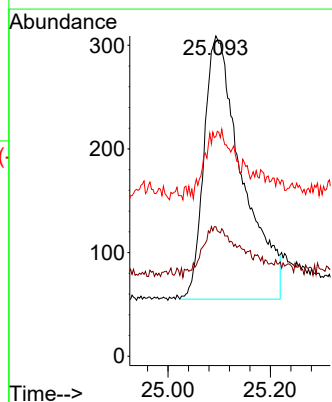
Tgt Ion:278 Resp: 1312

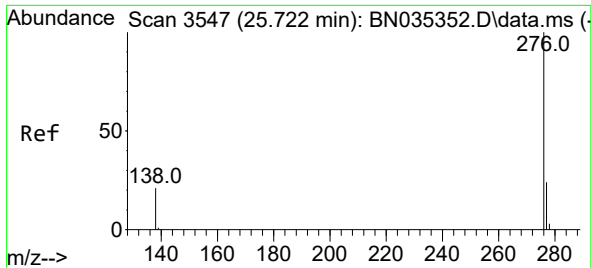
Ion Ratio Lower Upper

278 100

139 40.5 14.2 21.4#

279 68.6 20.5 30.7#





#41

Benzo(g,h,i)perylene

Concen: 0.067 ng

RT: 25.675 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035820.D

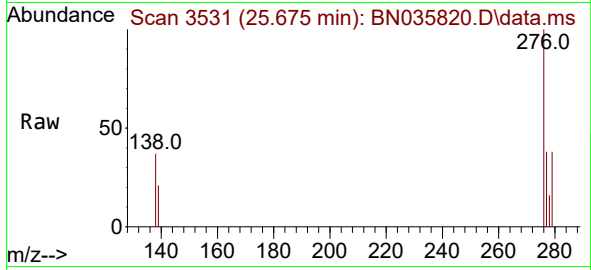
Acq: 24 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218



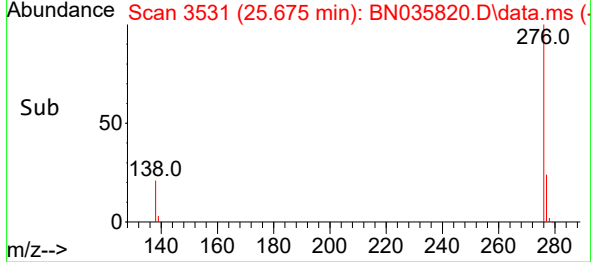
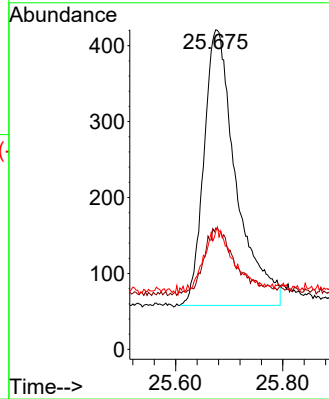
Tgt Ion:276 Resp: 1511

Ion Ratio Lower Upper

276 100

277 38.0 19.9 29.9#

138 37.1 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035821.D
 Acq On : 24 Dec 2024 14:55
 Operator : RC/JU
 Sample : P5376-08MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 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

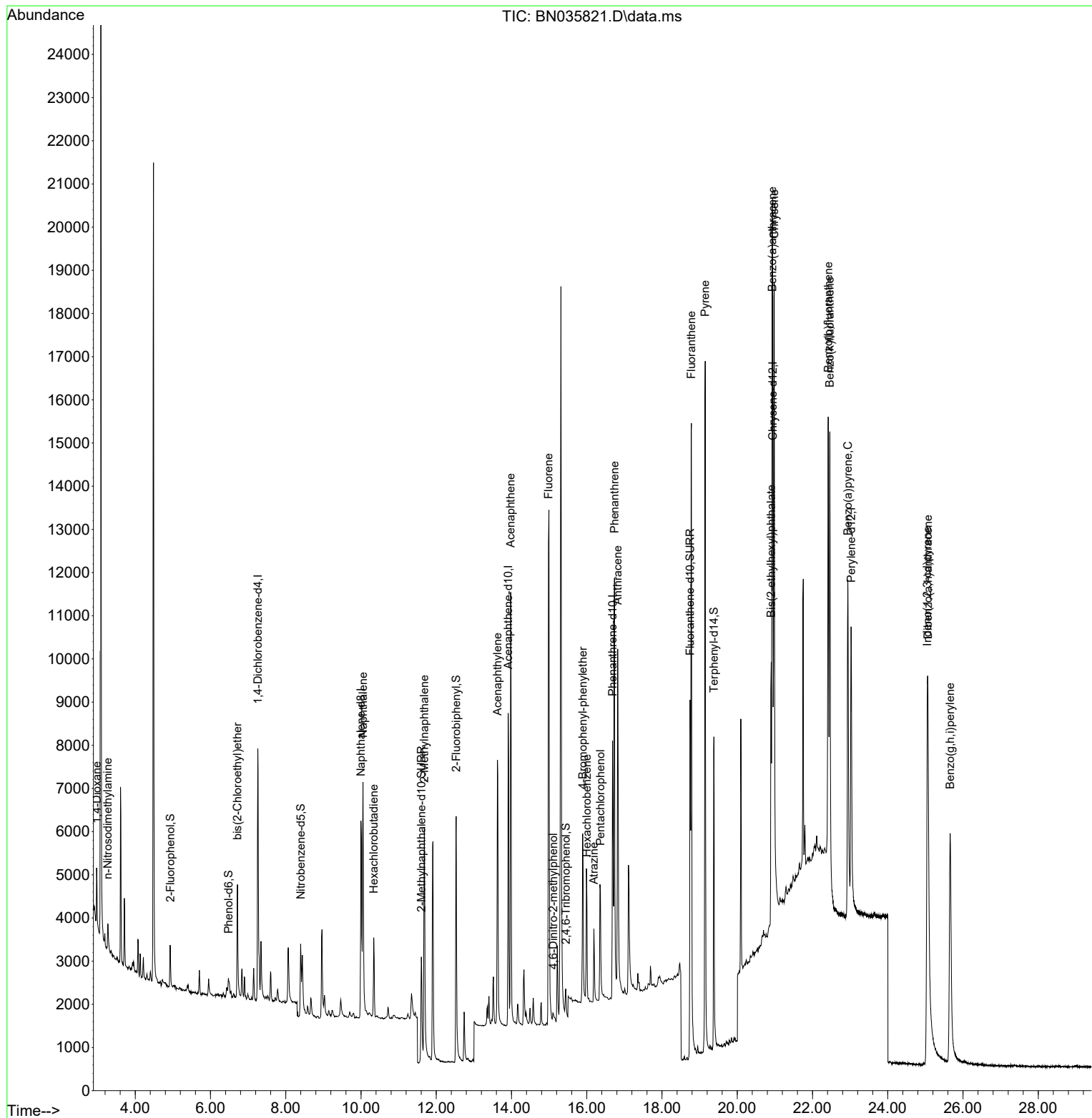
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3131	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7403	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4434	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9040	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8798	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9479	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	943	0.120	ng	0.00
5) Phenol-d6	6.477	99	545	0.058	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2211	0.489	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	4950	0.427	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	691	0.220	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6280	0.375	ng	-0.02
27) Fluoranthene-d10	18.747	212	10896	0.425	ng	-0.01
31) Terphenyl-d14	19.379	244	8459	0.487	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.974	88	909	0.304	ng	# 85
3) n-Nitrosodimethylamine	3.270	42	393	0.158	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	2329	0.294	ng	98
9) Naphthalene	10.052	128	7736	0.396	ng	99
10) Hexachlorobutadiene	10.340	225	1471	0.327	ng	# 100
12) 2-Methylnaphthalene	11.681	142	5119	0.366	ng	99
16) Acenaphthylene	13.625	152	8059	0.433	ng	99
17) Acenaphthene	13.978	154	5206	0.421	ng	99
18) Fluorene	14.983	166	6975	0.394	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	266	0.299	ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	1959	0.370	ng	# 75
22) Hexachlorobenzene	16.003	284	2633	0.424	ng	98
23) Atrazine	16.189	200	1523	0.405	ng	96
24) Pentachlorophenol	16.363	266	1863	0.690	ng	# 86
25) Phenanthrene	16.735	178	12002	0.483	ng	100
26) Anthracene	16.822	178	10344	0.461	ng	99
28) Fluoranthene	18.780	202	14906	0.445	ng	99
30) Pyrene	19.147	202	15976	0.492	ng	99
32) Benzo(a)anthracene	20.929	228	13869	0.451	ng	99
33) Chrysene	20.983	228	16049	0.506	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6067	0.499	ng	98
36) Indeno(1,2,3-cd)pyrene	25.052	276	15853	0.428	ng	98
37) Benzo(b)fluoranthene	22.418	252	20643	0.595	ng	# 94
38) Benzo(k)fluoranthene	22.459	252	16743	0.491	ng	# 94
39) Benzo(a)pyrene	22.939	252	13748	0.481	ng	# 89
40) Dibenzo(a,h)anthracene	25.067	278	11568	0.396	ng	94
41) Benzo(g,h,i)perylene	25.658	276	13235	0.433	ng	98

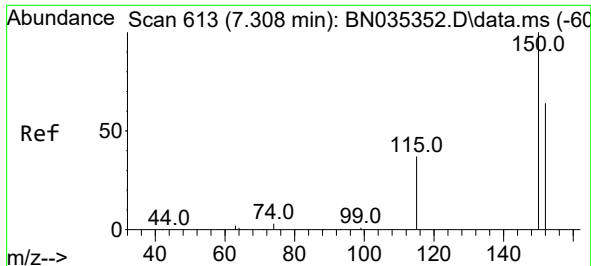
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

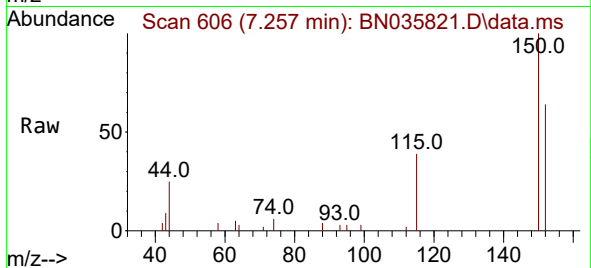
Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



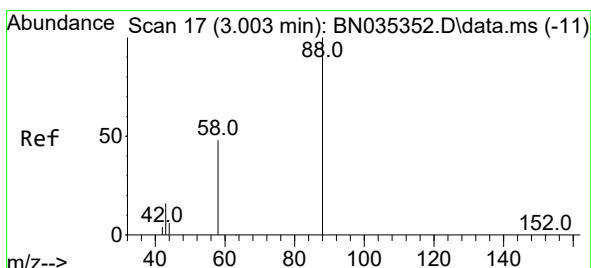
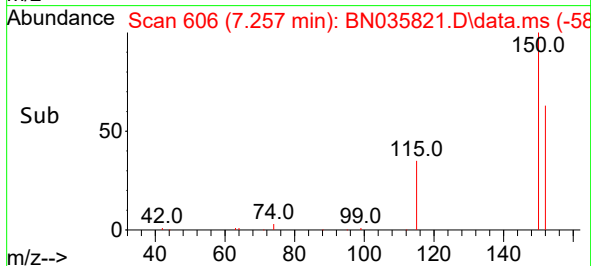
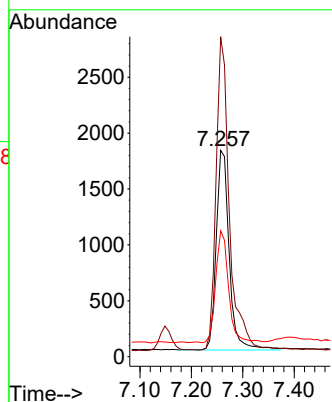


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035821.D
 Acq: 24 Dec 2024 14:55

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MS

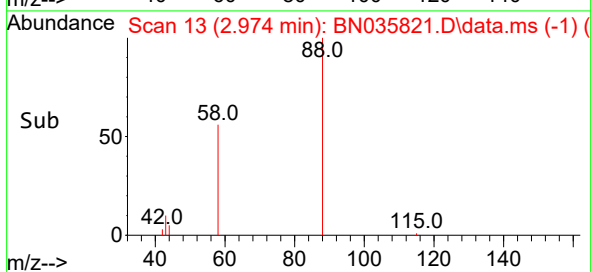
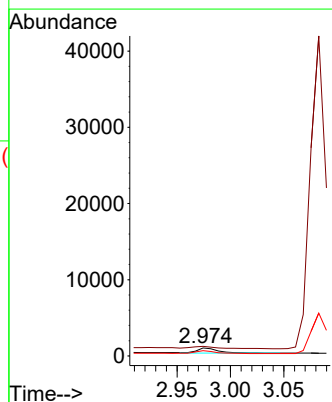
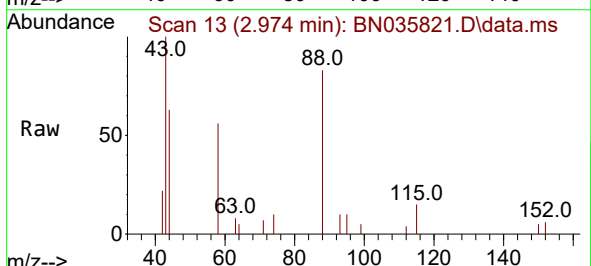


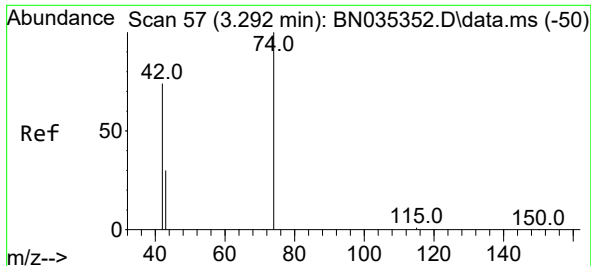
Tgt Ion:152 Resp: 3131
 Ion Ratio Lower Upper
 152 100
 150 155.2 124.0 186.0
 115 61.0 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.304 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035821.D
 Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909
 Ion Ratio Lower Upper
 88 100
 43 0.0 17.2 25.8#
 58 58.4 44.5 66.7

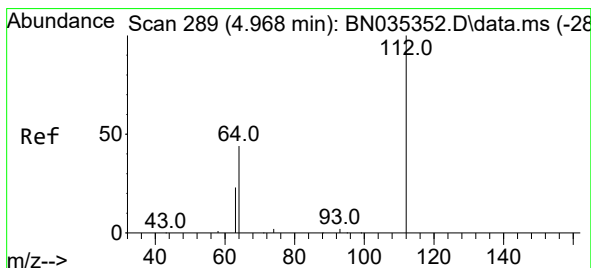
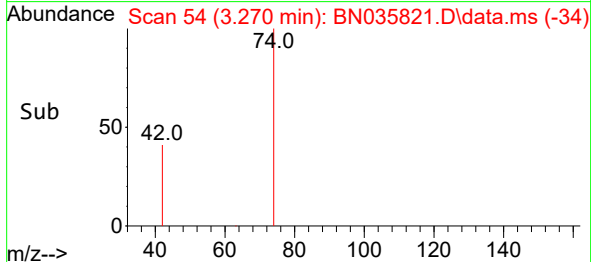
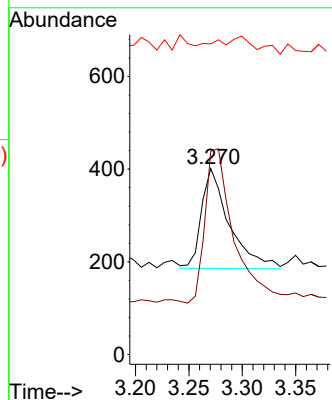
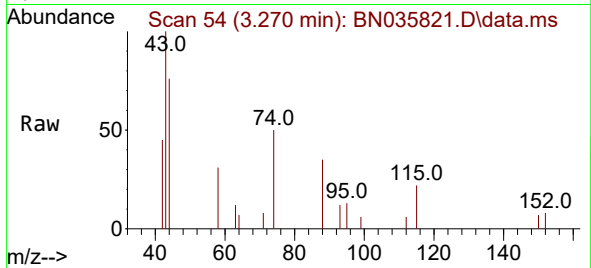




#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

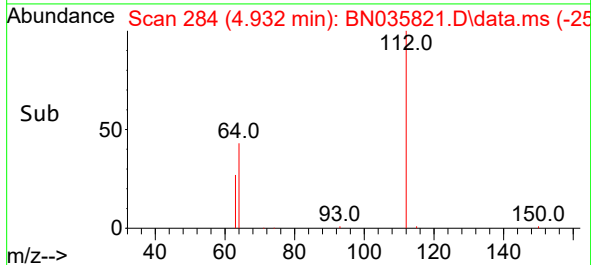
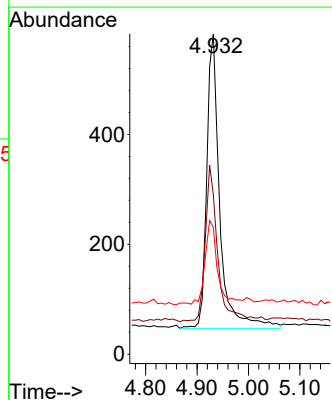
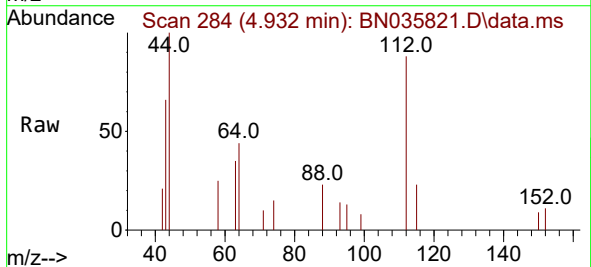
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

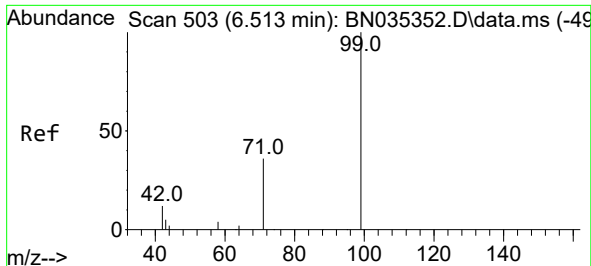
Tgt Ion: 42 Resp: 393
Ion Ratio Lower Upper
42 100
74 172.0 124.9 187.3
44 0.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 112 Resp: 943
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 28.2 21.0 31.6

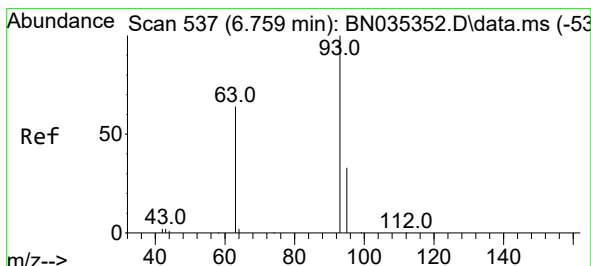
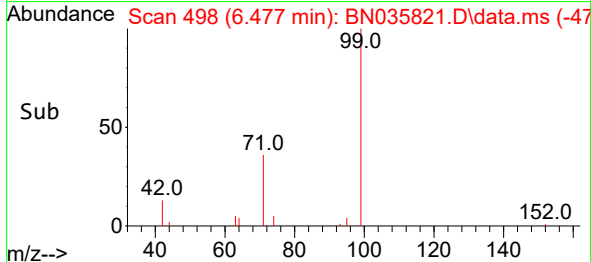
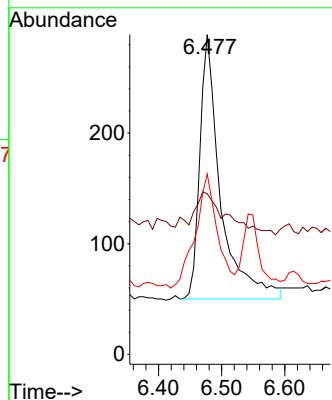
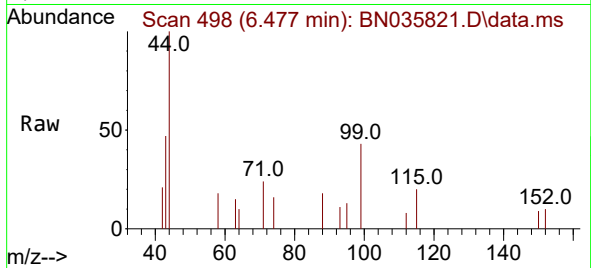




#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

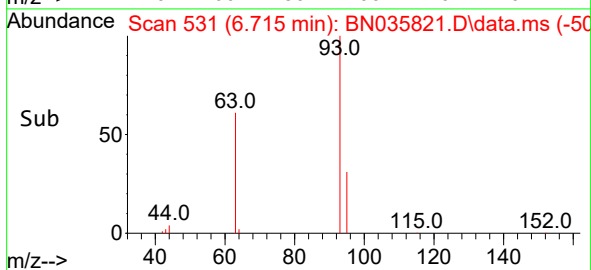
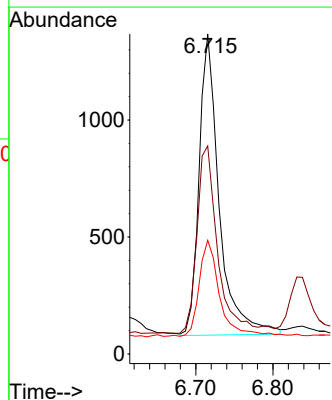
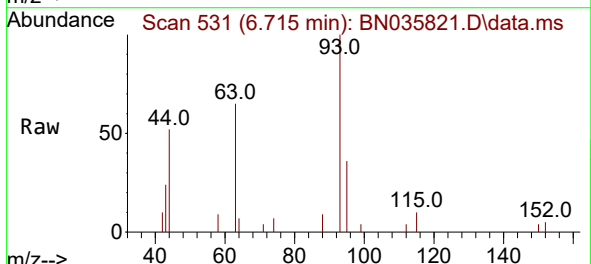
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

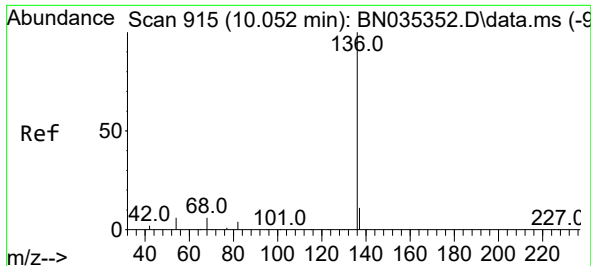
Tgt Ion: 99 Resp: 545
Ion Ratio Lower Upper
99 100
42 26.8 11.4 17.2#
71 45.9 29.3 43.9#



#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329
Ion Ratio Lower Upper
93 100
63 65.2 50.4 75.6
95 32.6 25.7 38.5

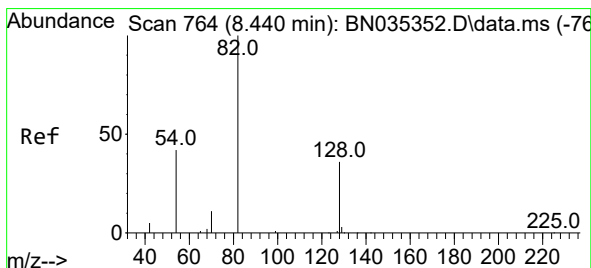
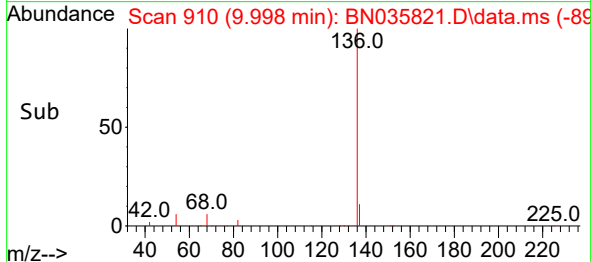
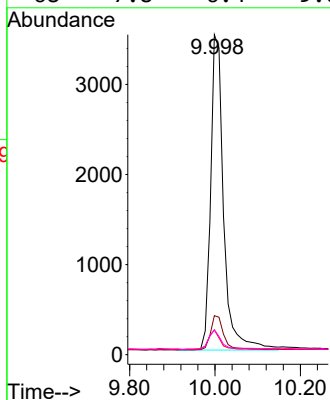
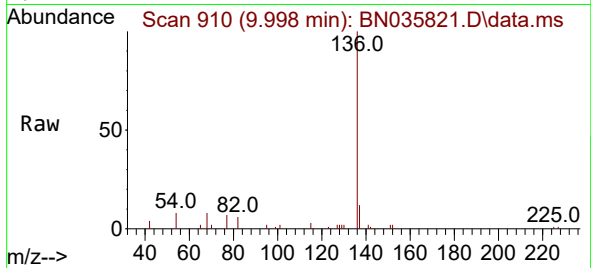




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

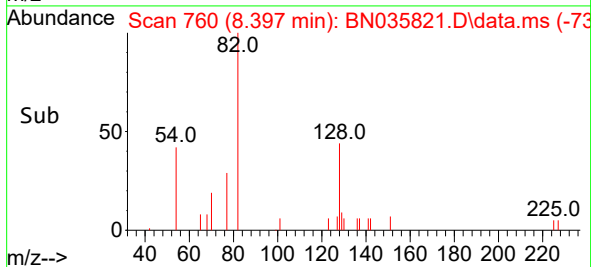
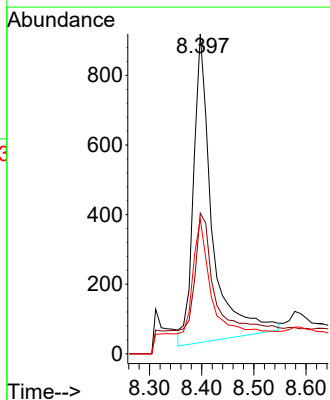
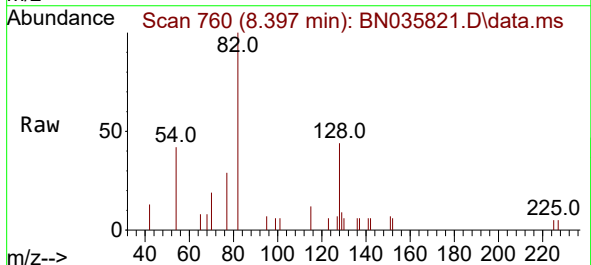
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

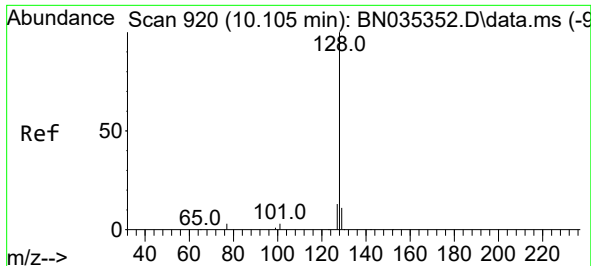
Tgt Ion:136	Resp:	7403
Ion	Ratio	Lower Upper
136	100	
137	12.2	10.2 15.2
54	7.7	6.1 9.1
68	7.8	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.489 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82	Resp:	2211
Ion	Ratio	Lower Upper
82	100	
128	44.0	33.4 50.0
54	42.1	36.7 55.1

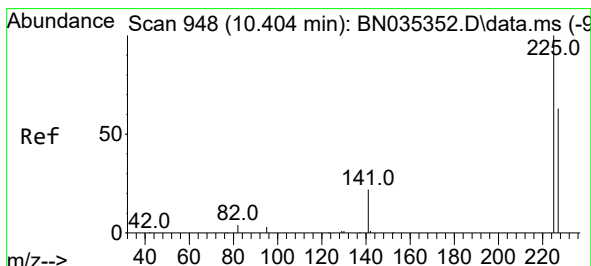
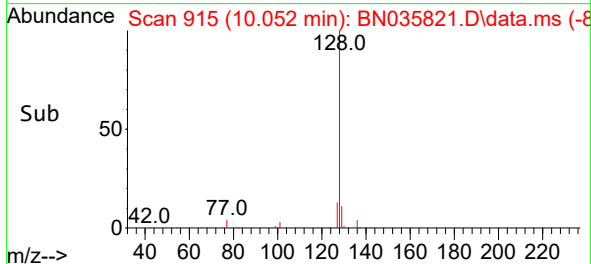
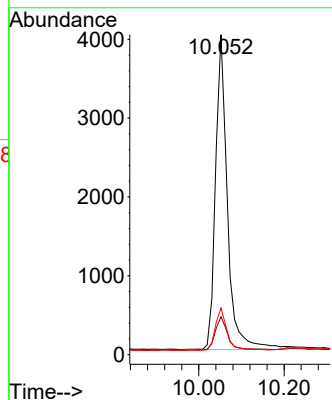
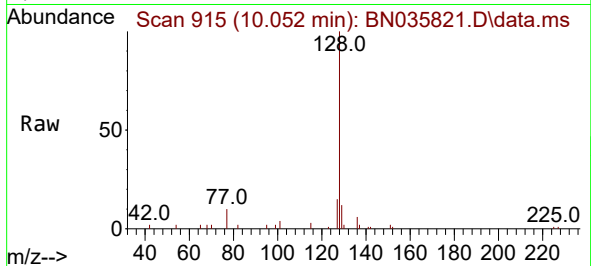




#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

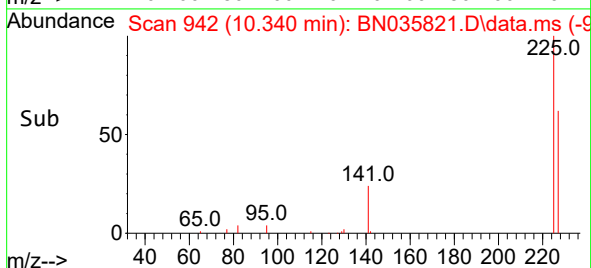
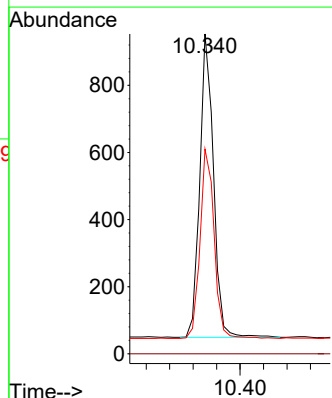
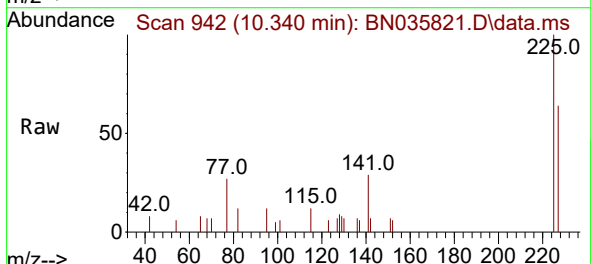
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

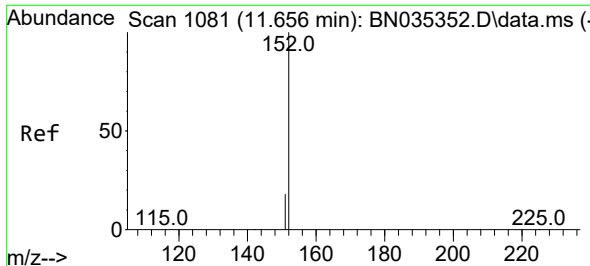
Tgt Ion:128 Resp: 7736
Ion Ratio Lower Upper
128 100
129 11.8 9.8 14.6
127 14.5 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.3 76.9

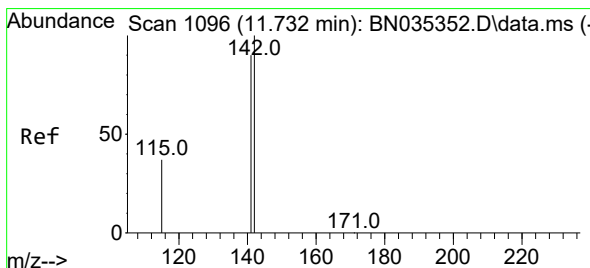
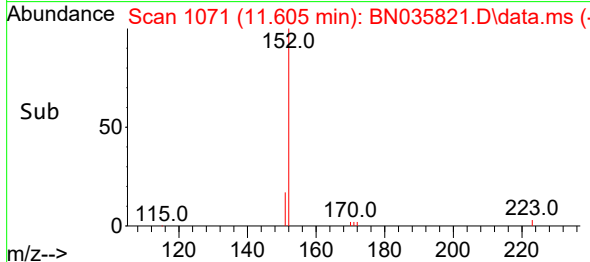
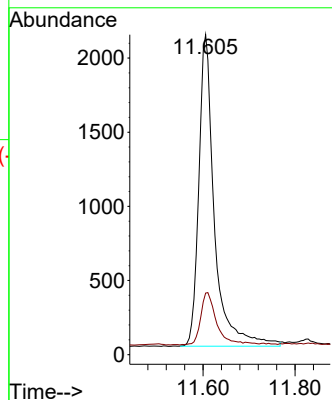
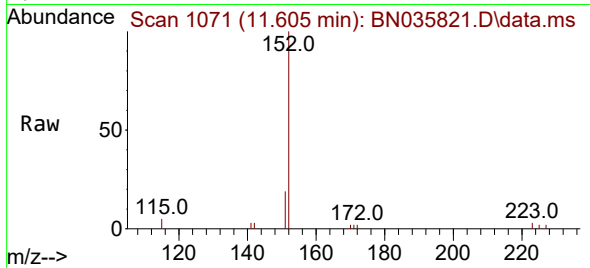




#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

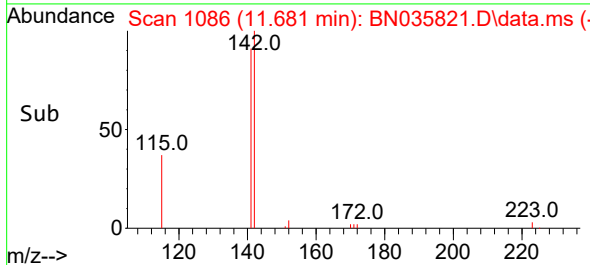
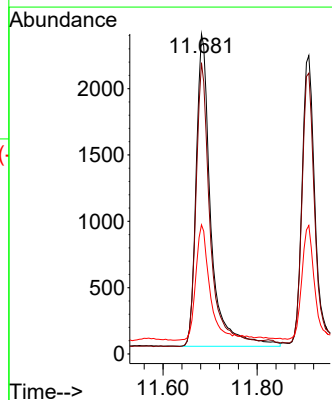
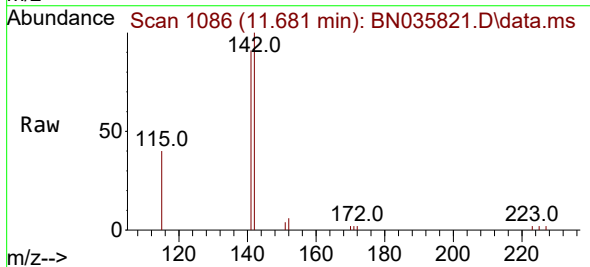
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

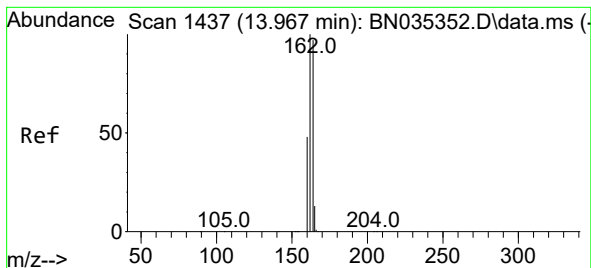
Tgt Ion:152 Resp: 4950
Ion Ratio Lower Upper
152 100
151 16.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 40.3 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.914 min Scan# 1437

Delta R.T. -0.022 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS

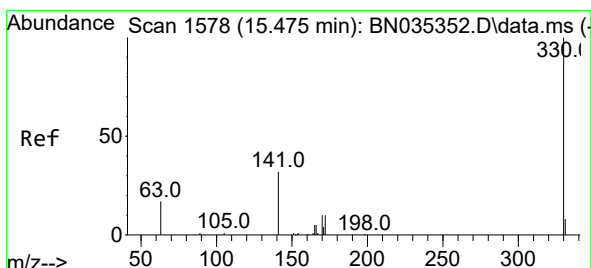
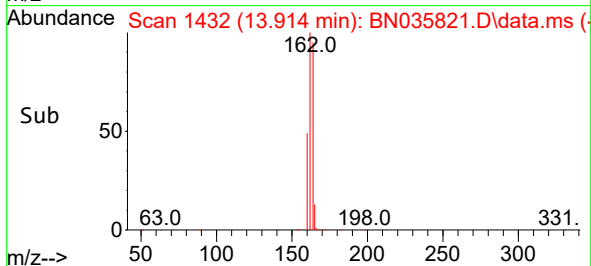
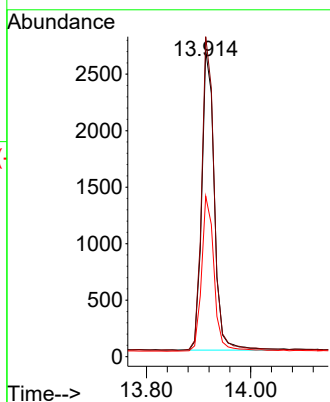
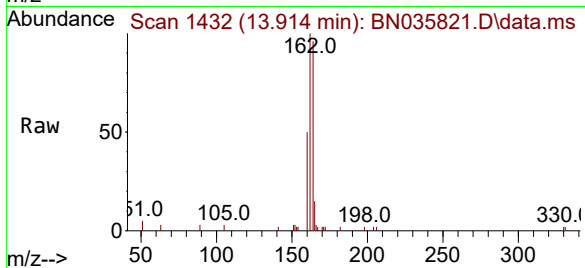
Tgt Ion:164 Resp: 4434

Ion Ratio Lower Upper

164 100

162 104.6 82.2 123.2

160 52.4 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.220 ng

RT: 15.443 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

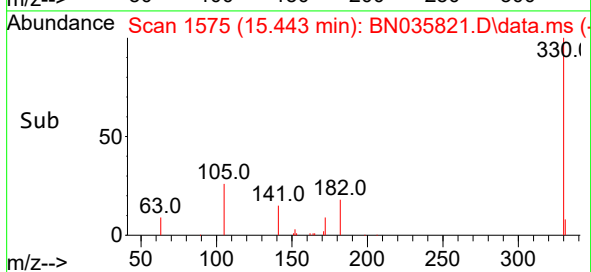
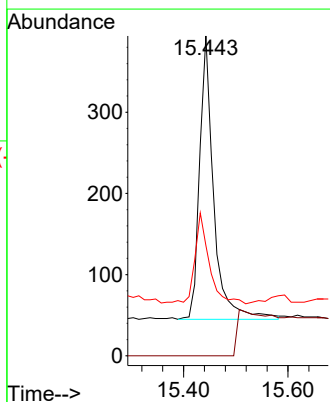
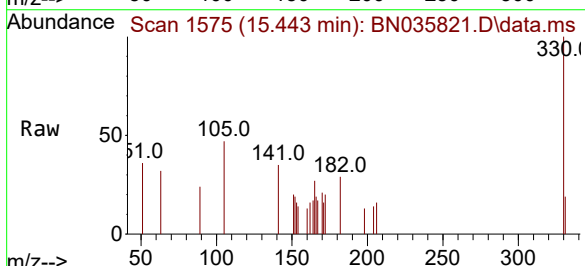
Tgt Ion:330 Resp: 691

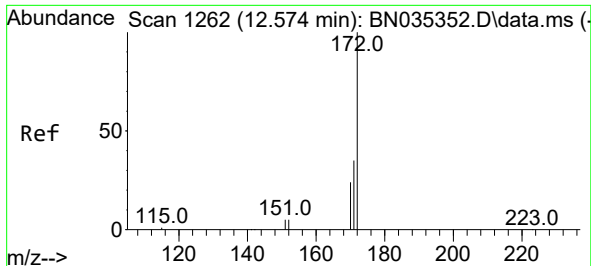
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 31.1 26.6 40.0

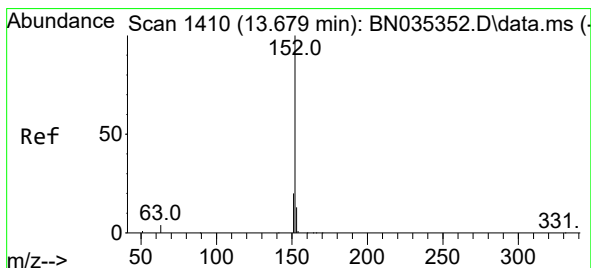
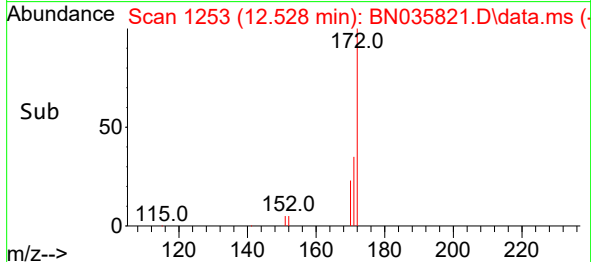
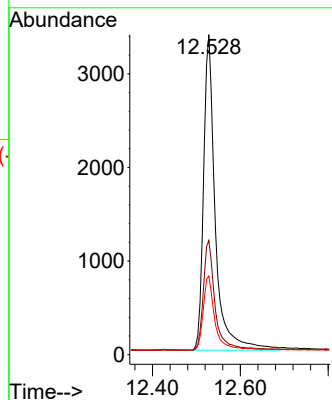
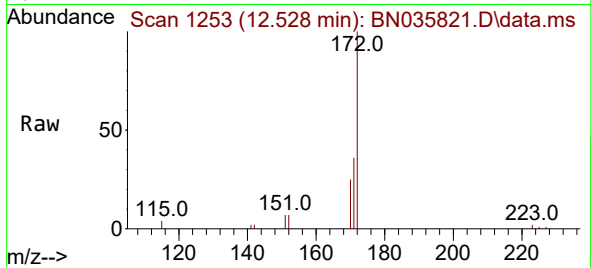




#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

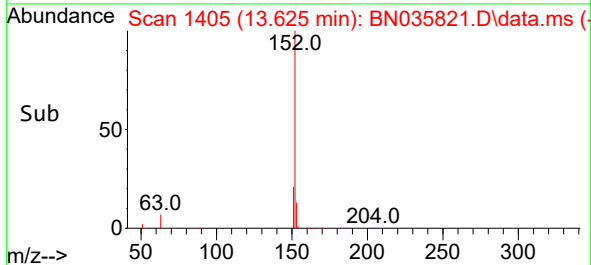
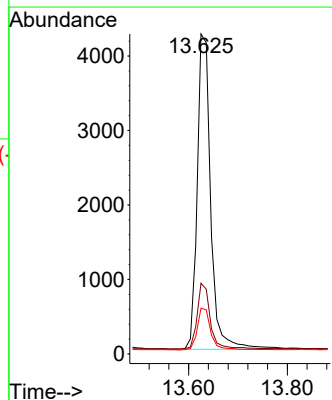
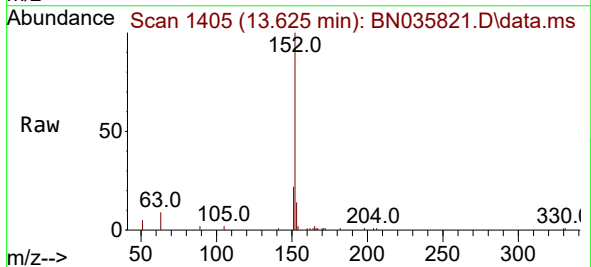
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

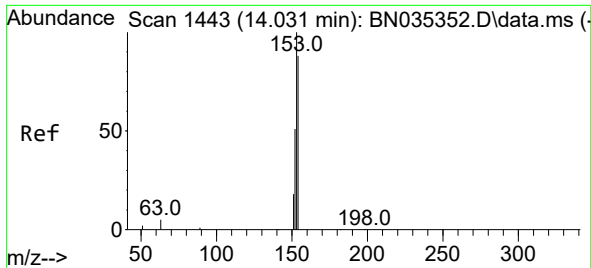
Tgt Ion:172 Resp: 6280
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 24.6 19.8 29.8



#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.2
153 13.4 10.4 15.6

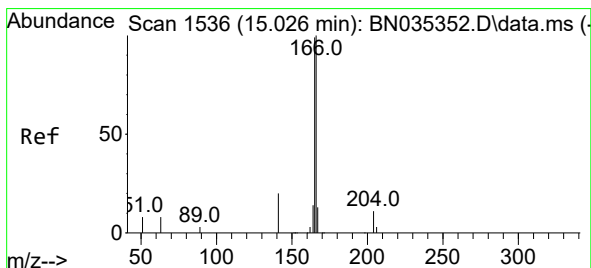
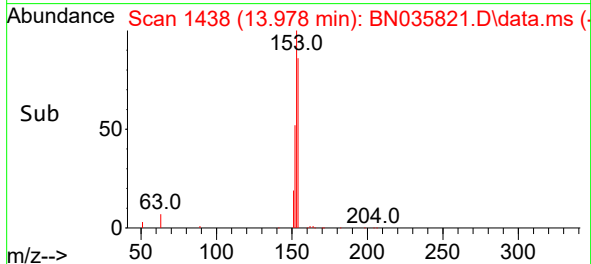
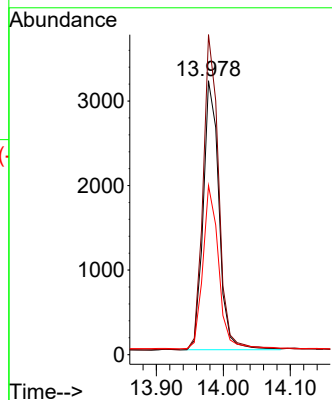
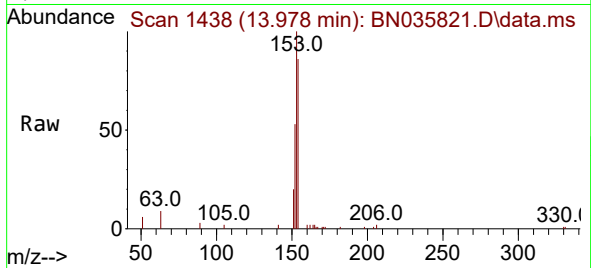




#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

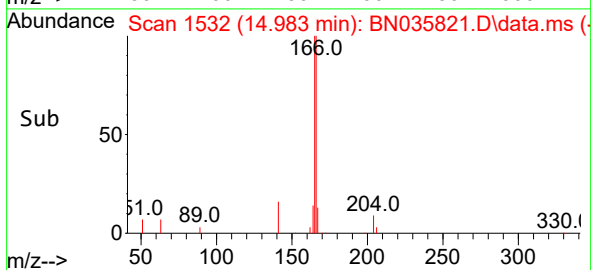
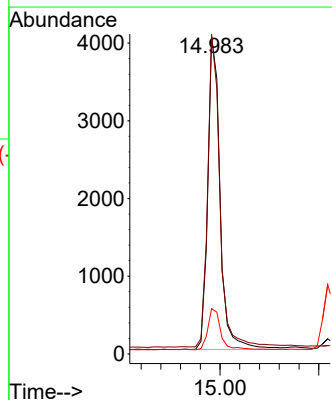
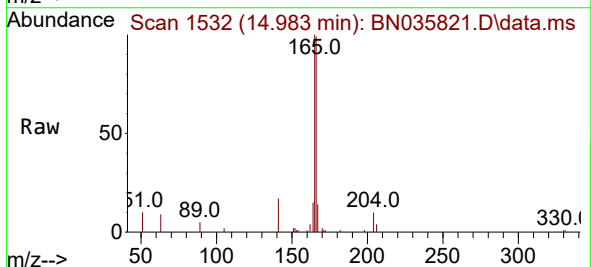
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

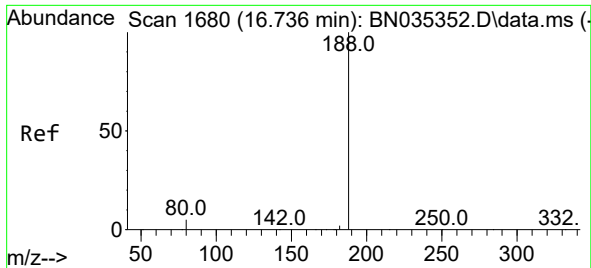
Tgt Ion:154 Resp: 5206
Ion Ratio Lower Upper
154 100
153 116.9 92.6 139.0
152 60.7 49.0 73.6



#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975
Ion Ratio Lower Upper
166 100
165 98.8 79.7 119.5
167 14.0 10.8 16.2

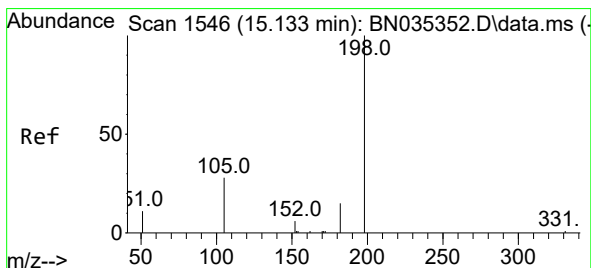
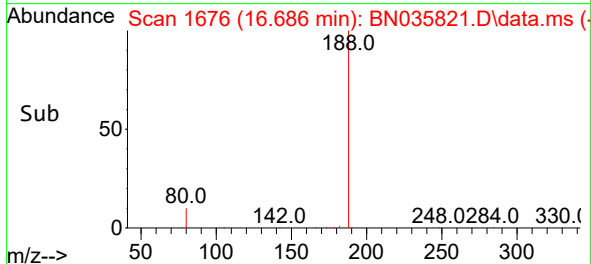
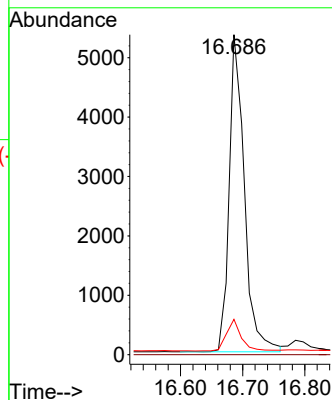
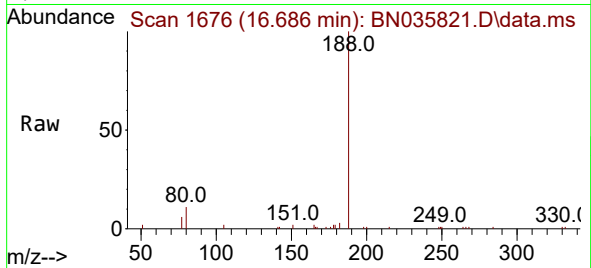




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

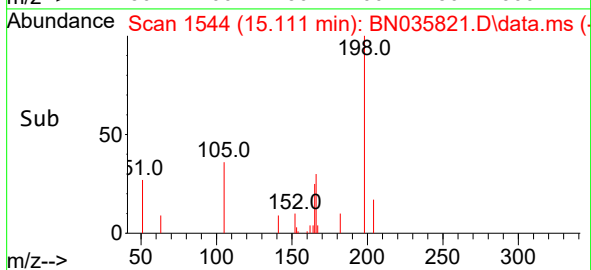
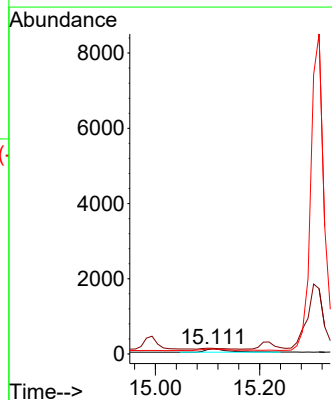
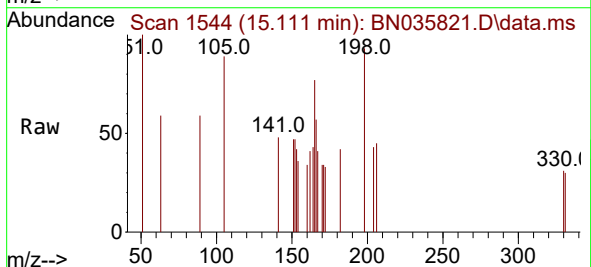
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

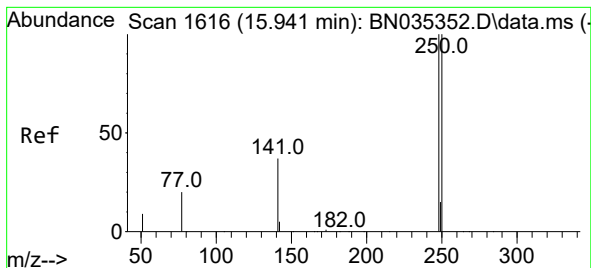
Tgt Ion:188 Resp: 9040
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266
Ion Ratio Lower Upper
198 100
51 108.0 46.5 69.7#
105 96.4 45.3 67.9#

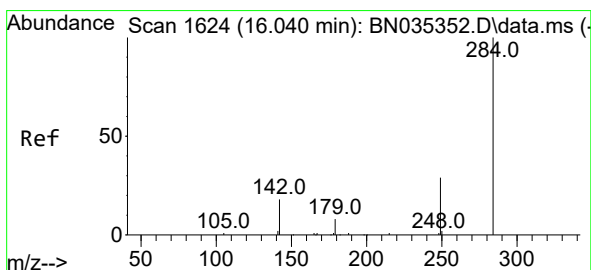
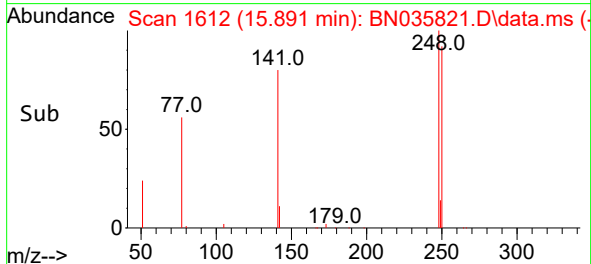
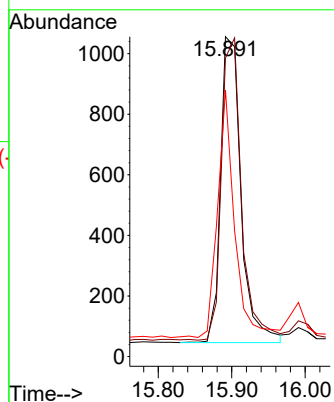
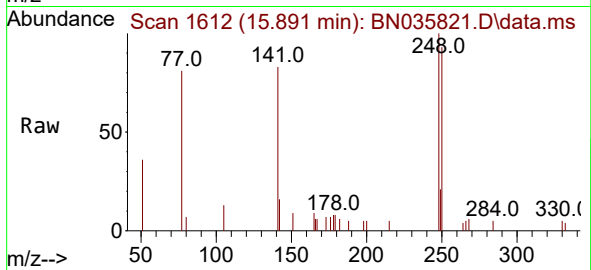




#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

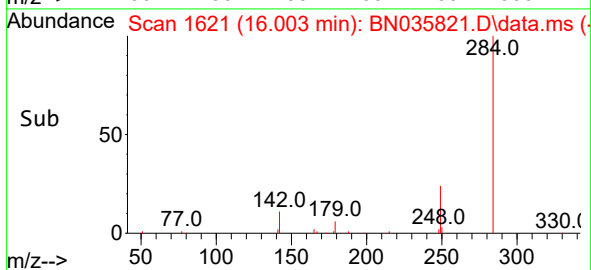
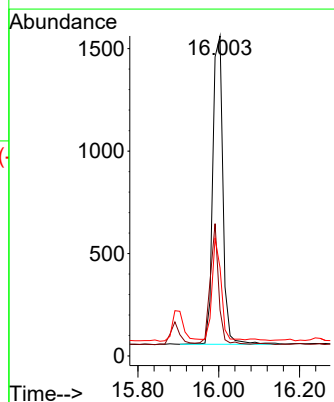
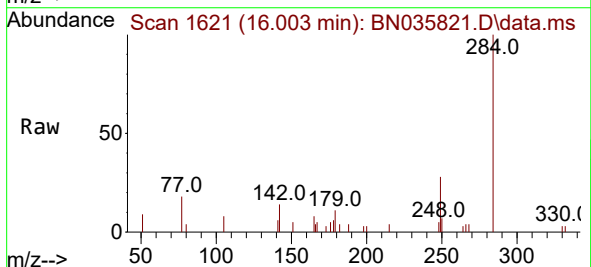
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

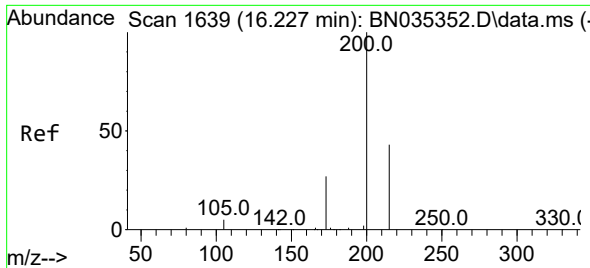
Tgt Ion:248 Resp: 1959
Ion Ratio Lower Upper
248 100
250 93.4 80.6 120.8
141 83.3 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633
Ion Ratio Lower Upper
284 100
142 32.3 26.7 40.1
249 29.1 24.6 36.8

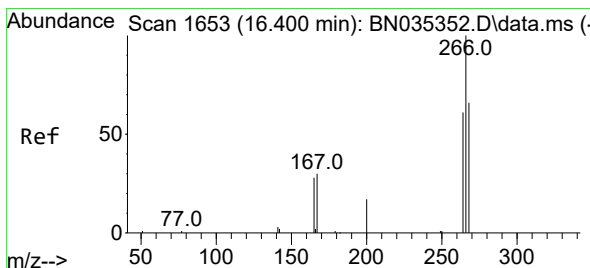
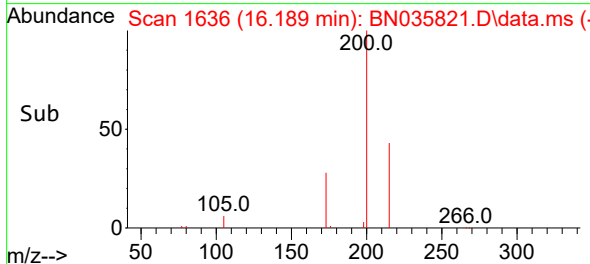
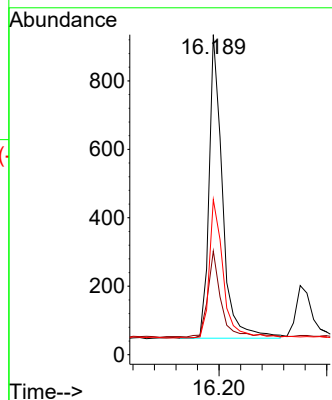
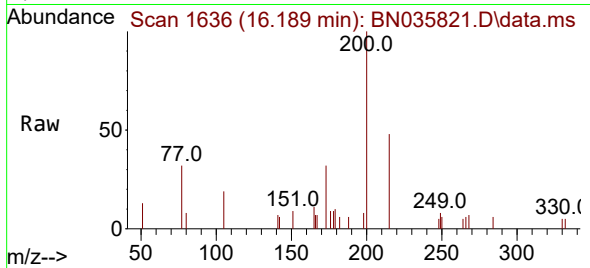




#23
 Atrazine
 Concen: 0.405 ng
 RT: 16.189 min Scan# 1636
 Delta R.T. -0.013 min
 Lab File: BN035821.D
 Acq: 24 Dec 2024 14:55

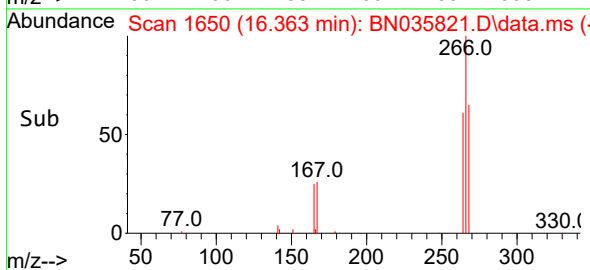
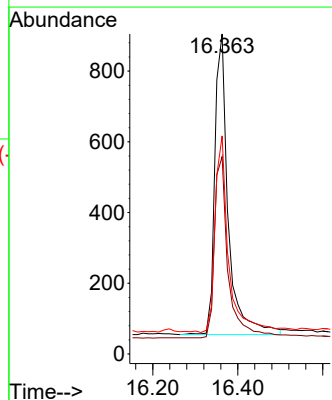
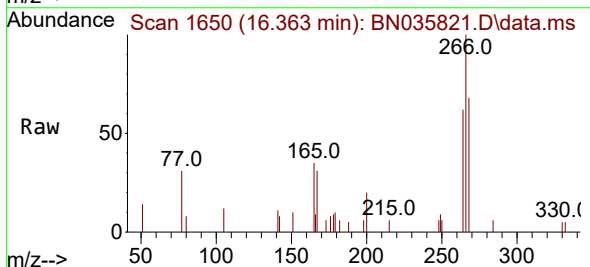
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MS

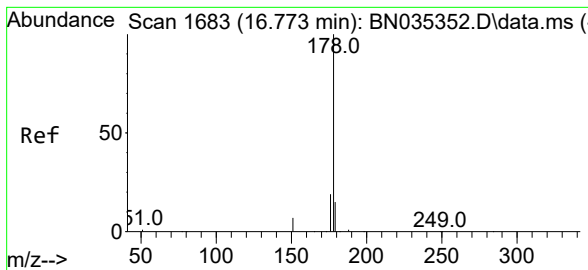
Tgt Ion:	200	Resp:	1523
Ion	Ratio	Lower	Upper
200	100		
173	32.4	24.1	36.1
215	48.4	36.9	55.3



#24
 Pentachlorophenol
 Concen: 0.690 ng
 RT: 16.363 min Scan# 1650
 Delta R.T. -0.013 min
 Lab File: BN035821.D
 Acq: 24 Dec 2024 14:55

Tgt Ion:	266	Resp:	1863
Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	65.9	43.3	64.9#

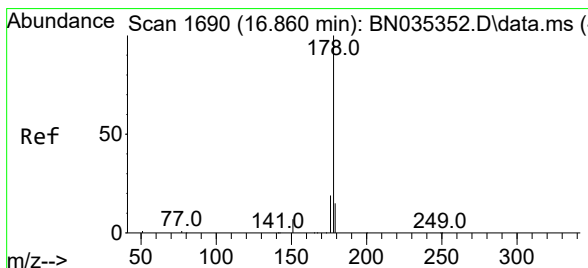
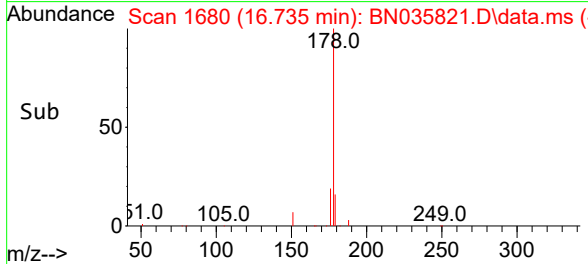
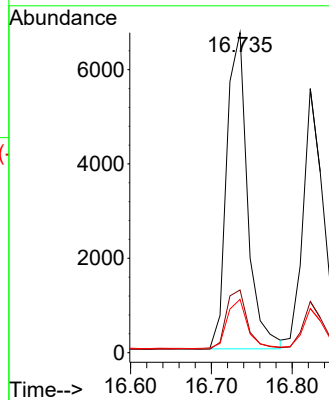
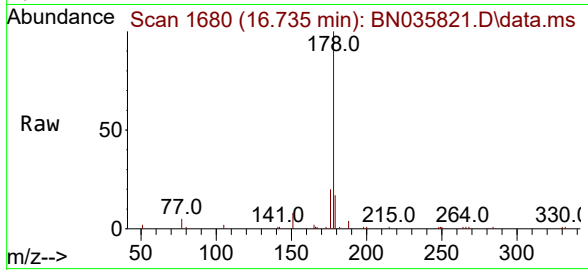




#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

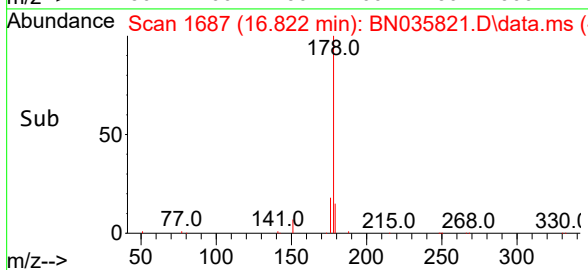
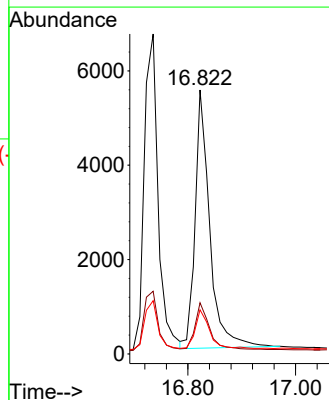
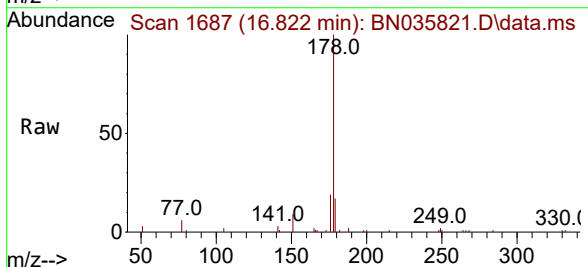
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

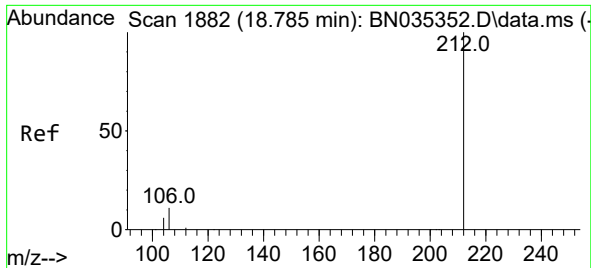
Tgt Ion:178 Resp: 12002
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 10344
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 14.9 12.6 18.8

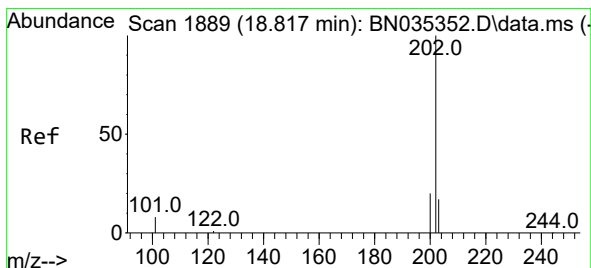
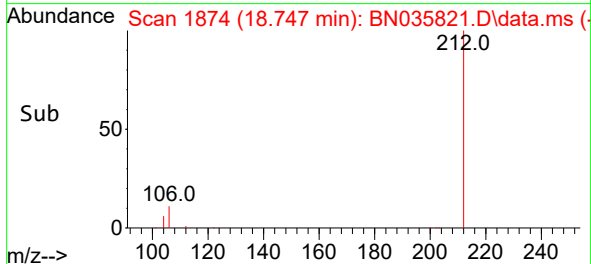
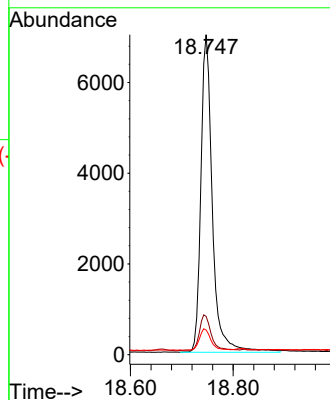
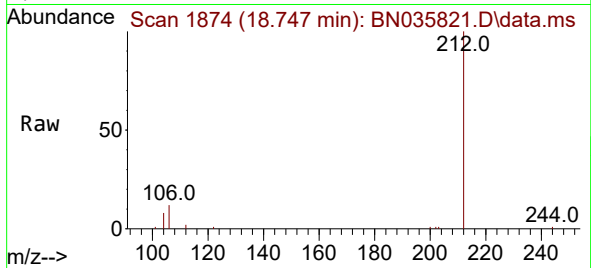




#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

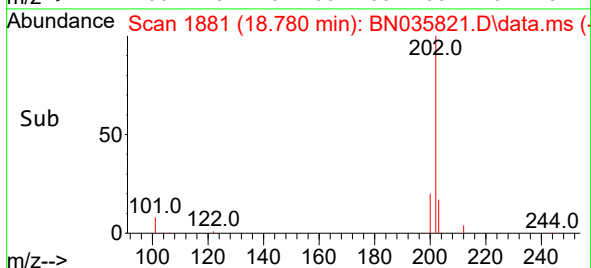
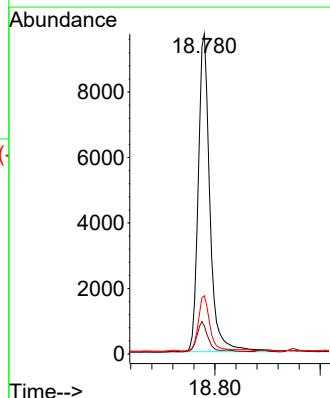
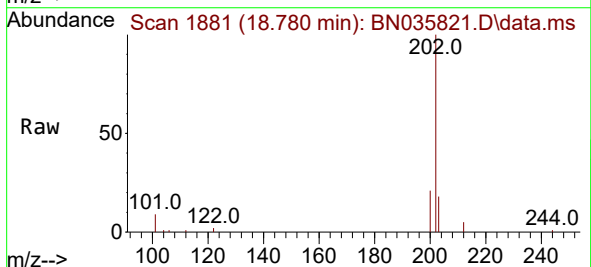
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

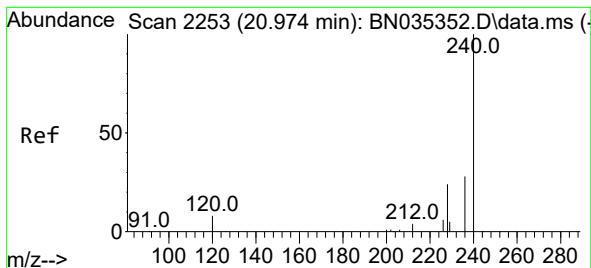
Tgt Ion:212 Resp: 10896
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.7 5.3 7.9



#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906
Ion Ratio Lower Upper
202 100
101 9.0 7.4 11.0
203 17.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS

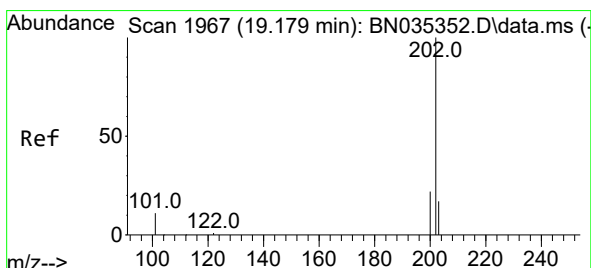
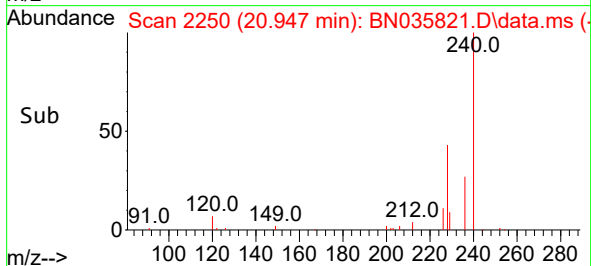
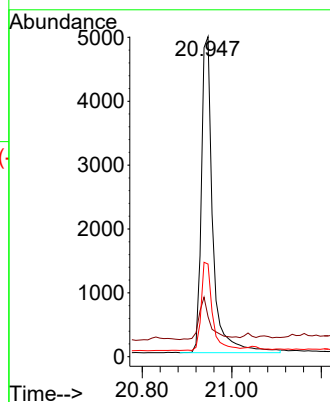
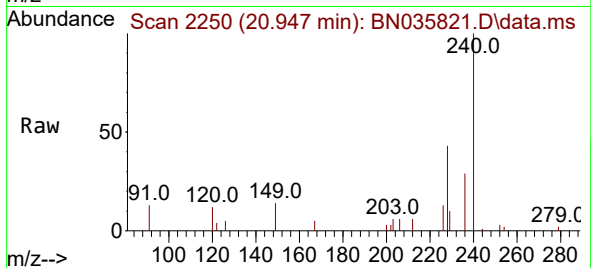
Tgt Ion:240 Resp: 8798

Ion Ratio Lower Upper

240 100

120 12.5 7.9 11.9#

236 29.0 22.9 34.3



#30

Pyrene

Concen: 0.492 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

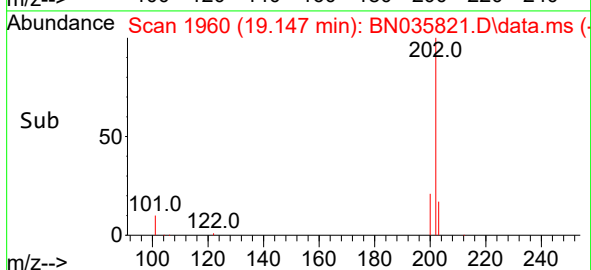
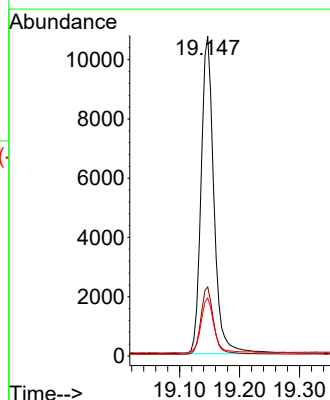
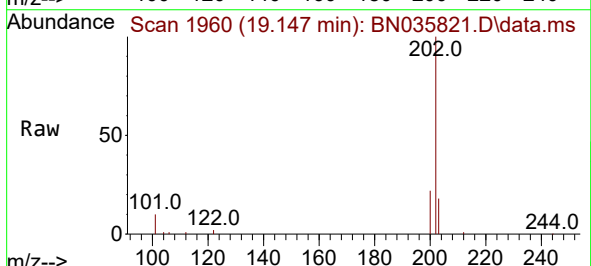
Tgt Ion:202 Resp: 15976

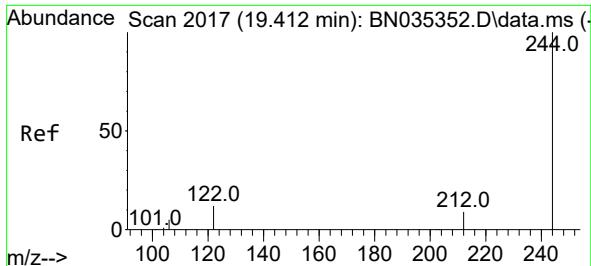
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 17.5 14.3 21.5

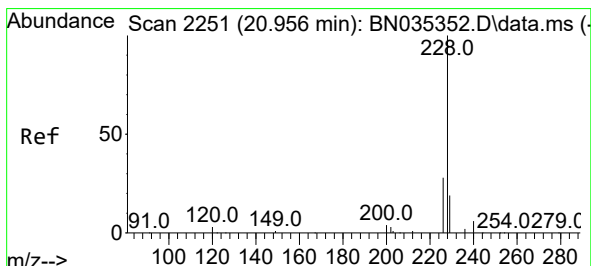
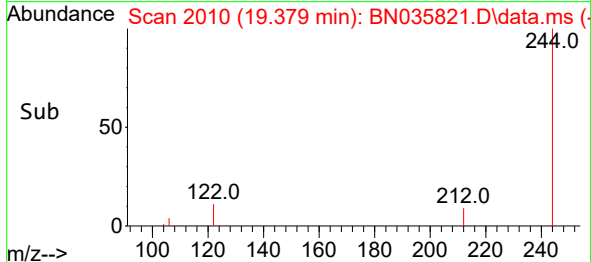
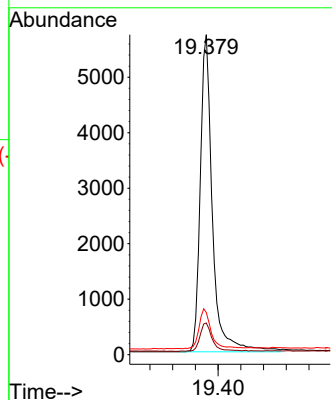
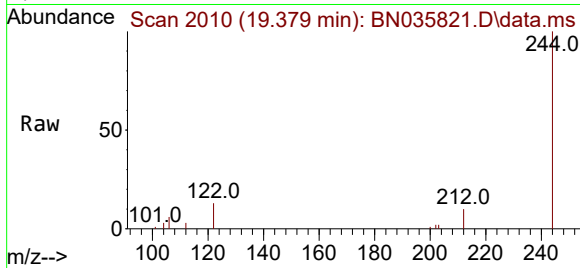




#31
 Terphenyl-d14
 Concen: 0.487 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035821.D
 Acq: 24 Dec 2024 14:55

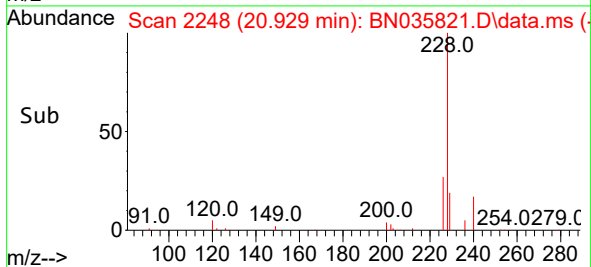
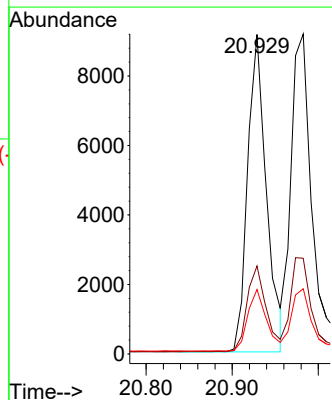
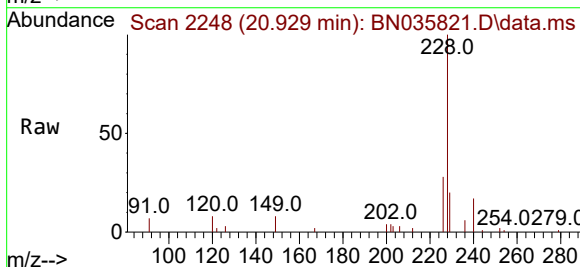
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MS

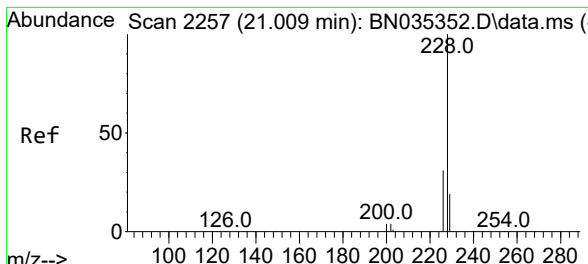
Tgt Ion:244 Resp: 8459
 Ion Ratio Lower Upper
 244 100
 212 9.9 8.1 12.1
 122 13.2 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.451 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035821.D
 Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.5 33.7
 229 20.2 15.8 23.8





#33

Chrysene

Concen: 0.506 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MS

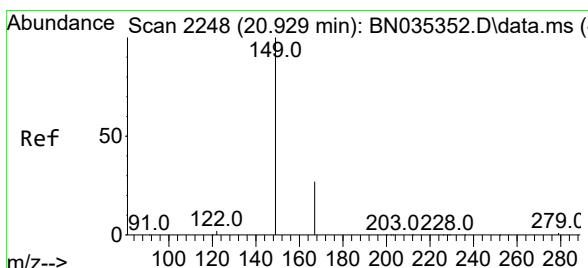
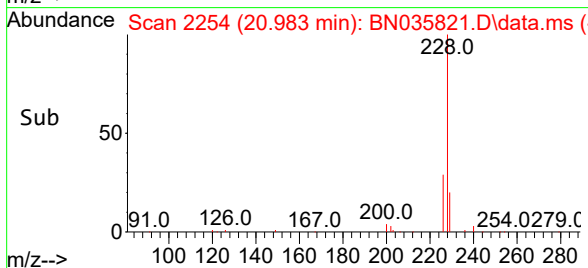
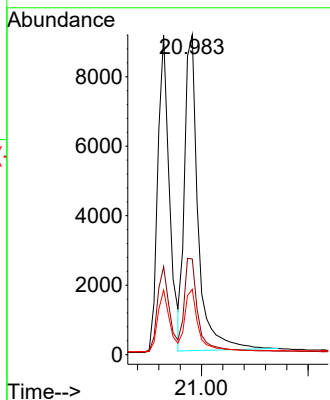
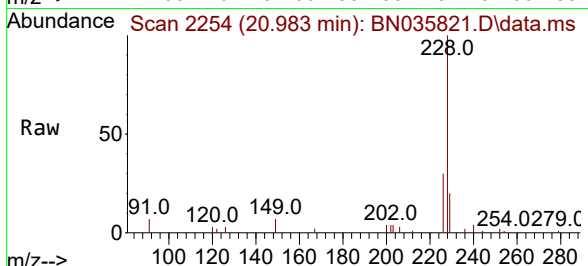
Tgt Ion:228 Resp: 16049

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: 0.499 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035821.D

Acq: 24 Dec 2024 14:55

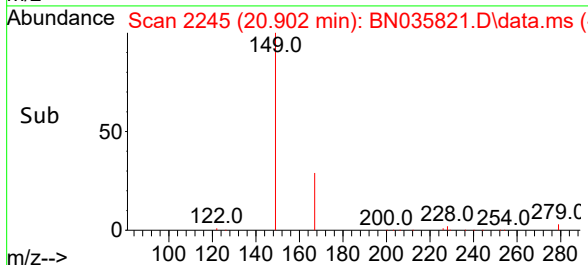
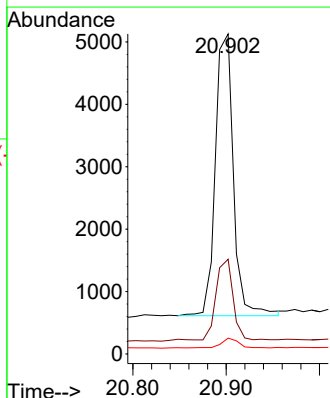
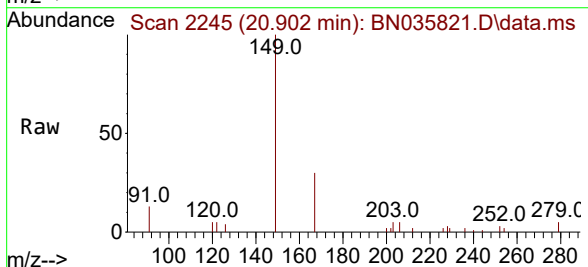
Tgt Ion:149 Resp: 6067

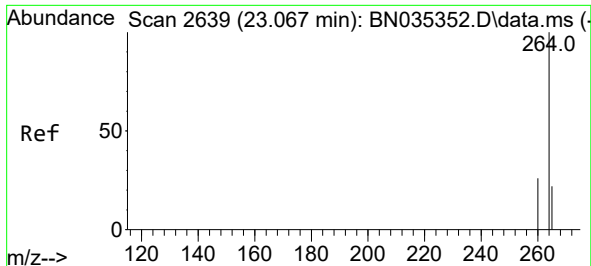
Ion Ratio Lower Upper

149 100

167 26.7 22.2 33.4

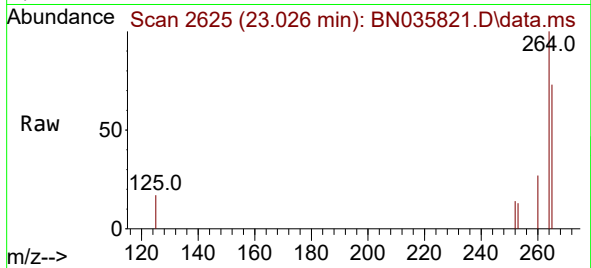
279 3.2 2.7 4.1



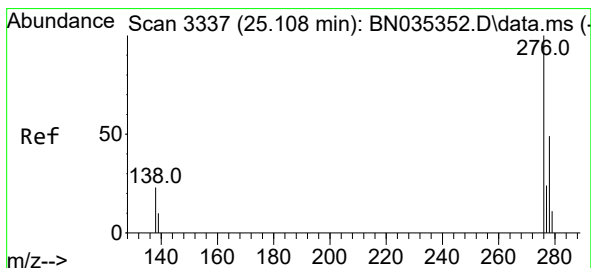
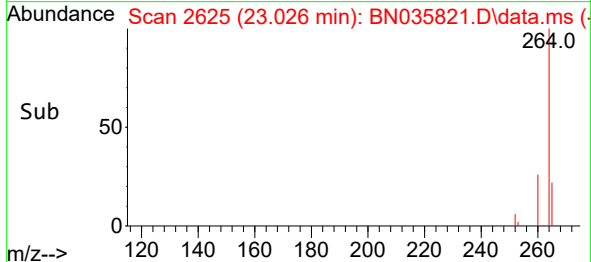
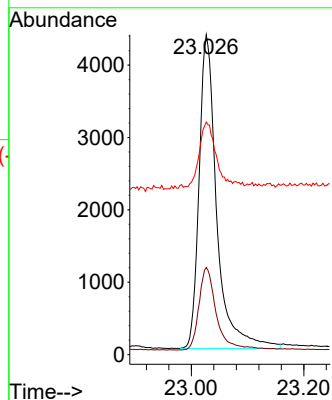


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

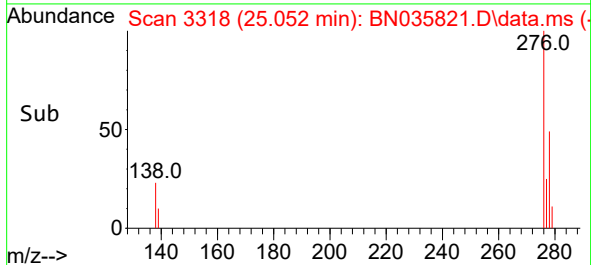
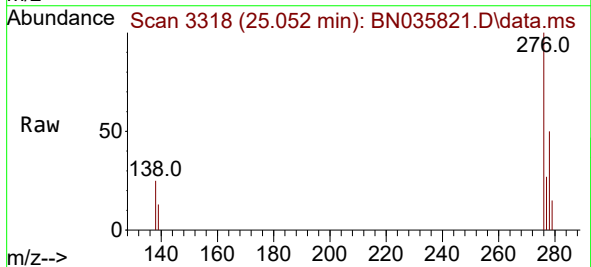
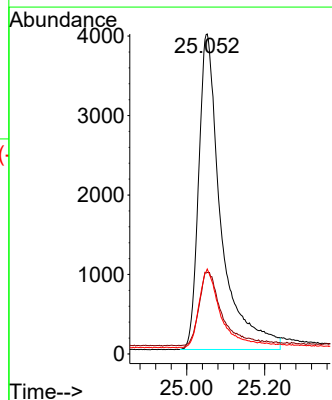


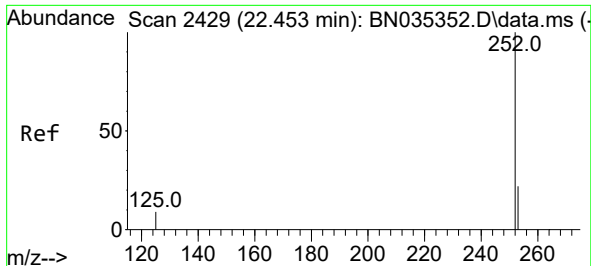
Tgt Ion:264 Resp: 9479
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 72.7 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

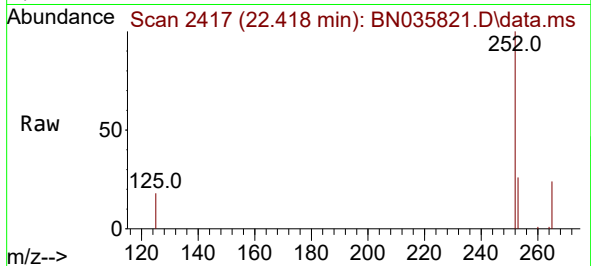
Tgt Ion:276 Resp: 15853
Ion Ratio Lower Upper
276 100
138 22.9 19.4 29.0
277 24.1 19.8 29.6



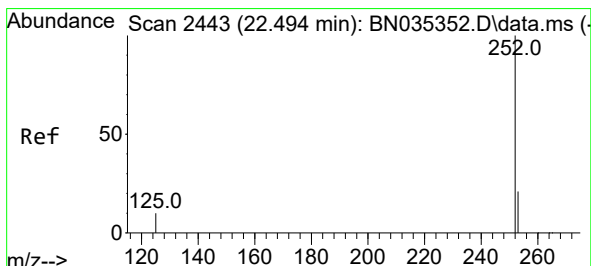
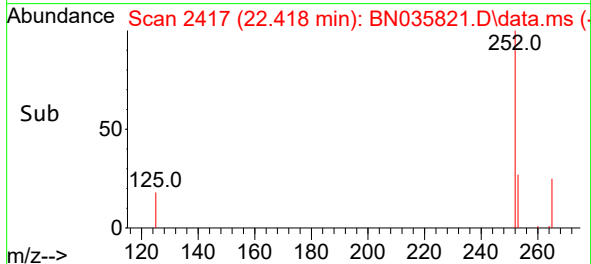
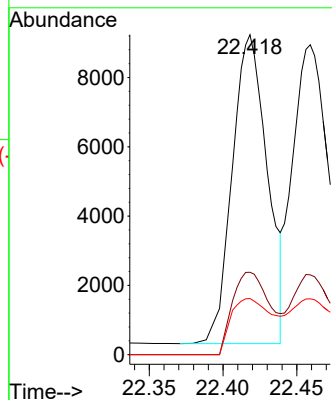


#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

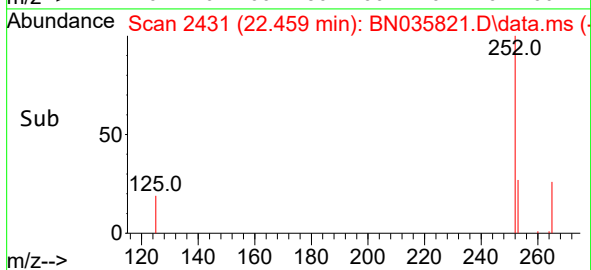
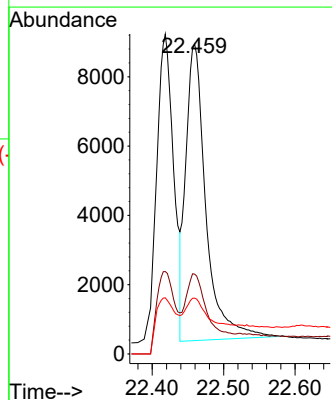
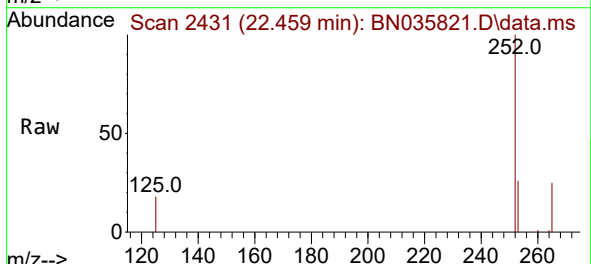


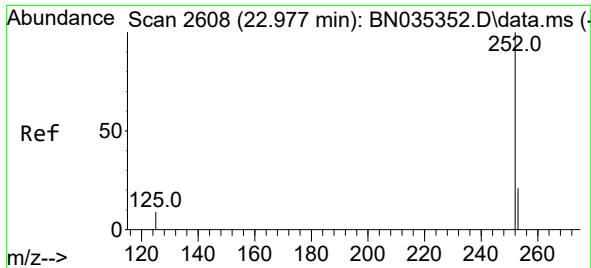
Tgt Ion:252 Resp: 20643
Ion Ratio Lower Upper
252 100
253 25.8 19.6 29.4
125 17.6 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743
Ion Ratio Lower Upper
252 100
253 25.8 19.5 29.3
125 18.0 10.2 15.4#

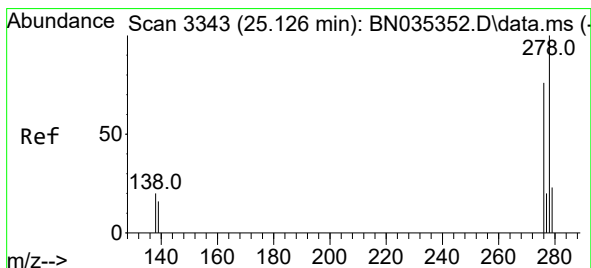
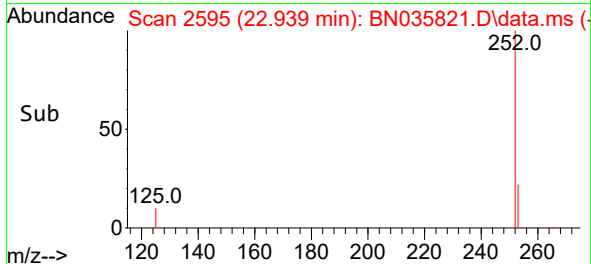
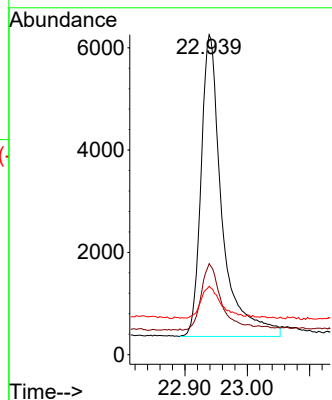
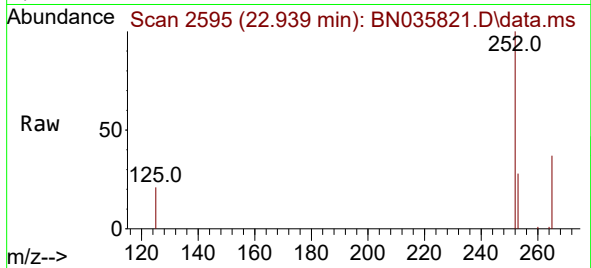




#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

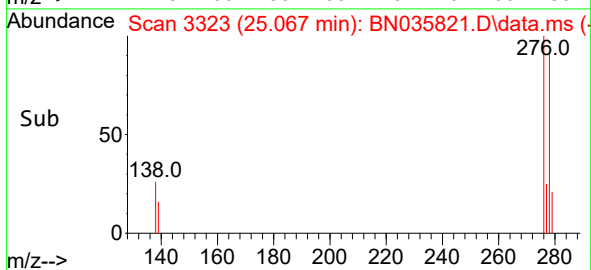
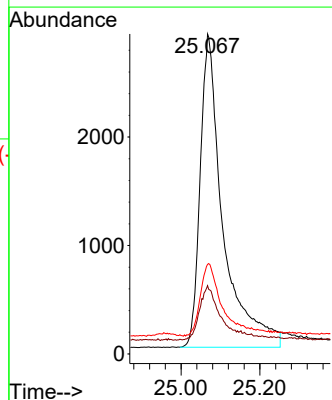
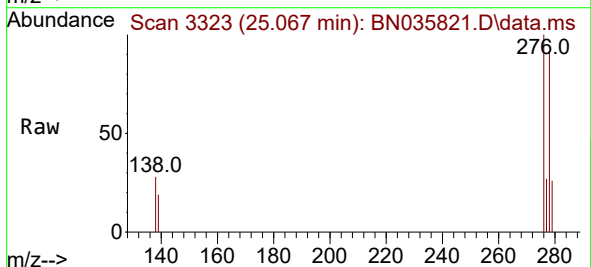
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

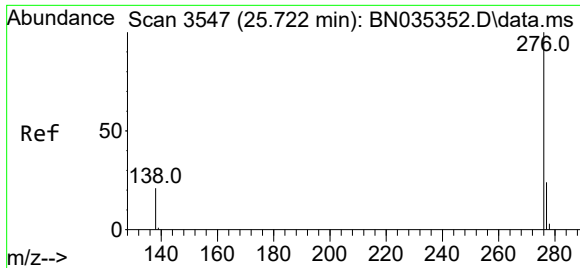
Tgt Ion:252 Resp: 13748
Ion Ratio Lower Upper
252 100
253 28.5 20.2 30.4
125 21.3 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

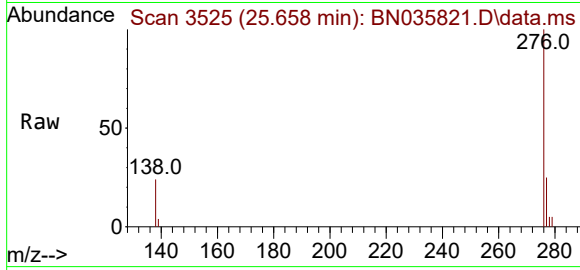
Tgt Ion:278 Resp: 11568
Ion Ratio Lower Upper
278 100
139 21.3 14.2 21.4
279 28.0 20.5 30.7



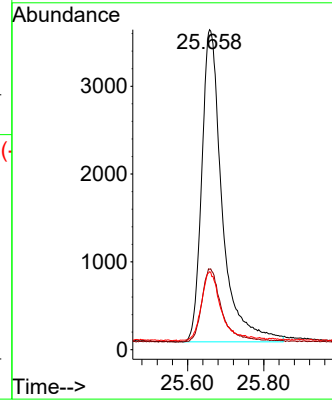
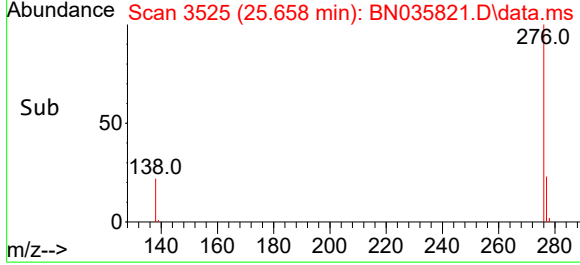


#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 31
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS



Tgt Ion:276 Resp: 13235
Ion Ratio Lower Upper
276 100
277 25.1 19.9 29.9
138 24.3 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035822.D
 Acq On : 24 Dec 2024 15:31
 Operator : RC/JU
 Sample : P5376-09MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 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)

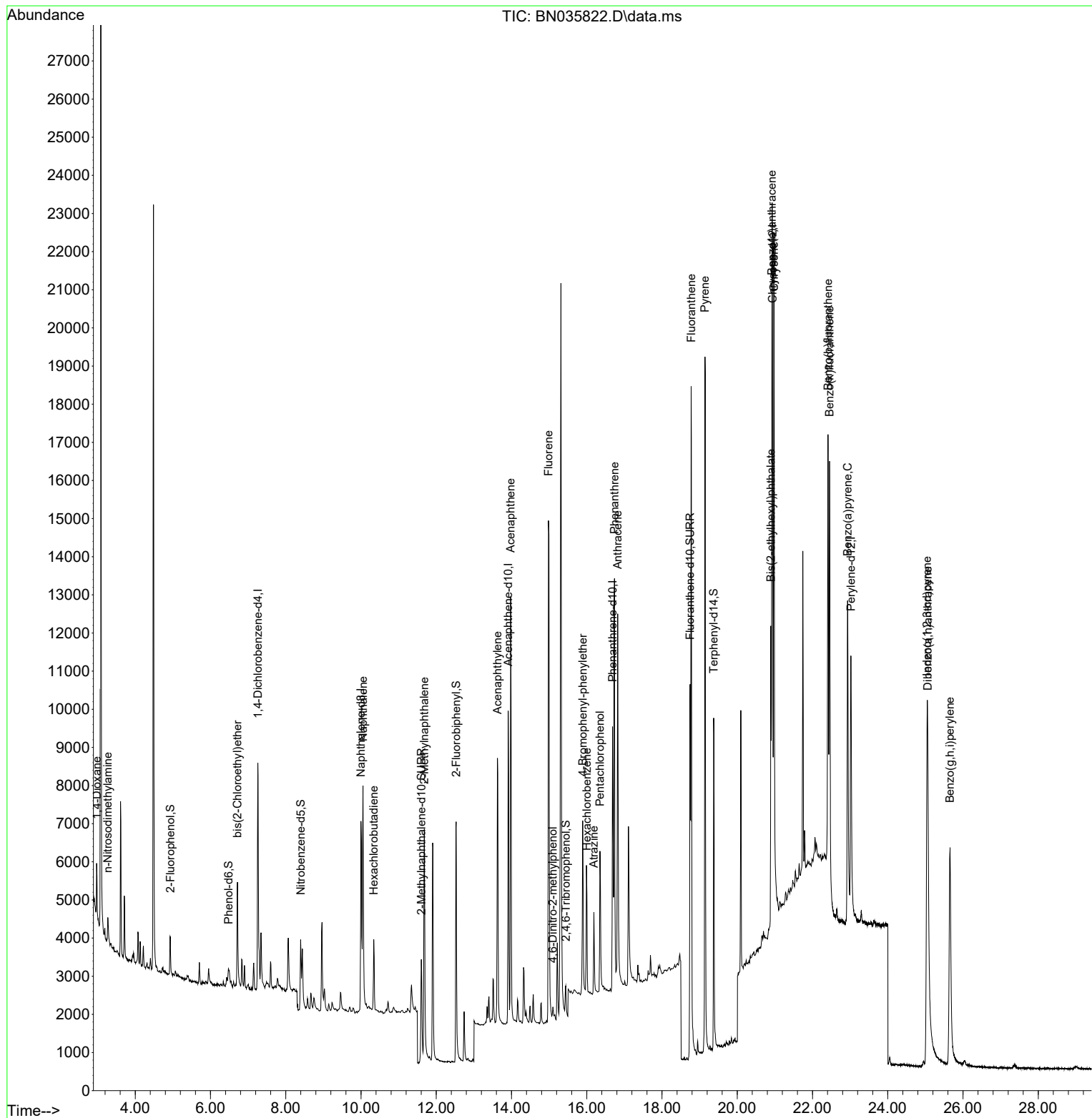
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3187	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7953	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4887	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10068	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9501	0.400	ng	#-0.02
35) Perylene-d12	23.020	264	9990	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	967	0.121	ng	0.00
5) Phenol-d6	6.477	99	640	0.067	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2382	0.490	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5387	0.433	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	787	0.227	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6851	0.371	ng	-0.02
27) Fluoranthene-d10	18.747	212	12293	0.431	ng	-0.01
31) Terphenyl-d14	19.374	244	9610	0.513	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	932	0.306	ng	# 75
3) n-Nitrosodimethylamine	3.270	42	376	0.148	ng	# 81
6) bis(2-Chloroethyl)ether	6.715	93	2448	0.304	ng	95
9) Naphthalene	10.052	128	8332	0.397	ng	99
10) Hexachlorobutadiene	10.340	225	1549	0.320	ng	# 99
12) 2-Methylnaphthalene	11.681	142	5571	0.371	ng	99
16) Acenaphthylene	13.625	152	8940	0.436	ng	100
17) Acenaphthene	13.978	154	5758	0.423	ng	99
18) Fluorene	14.983	166	7782	0.399	ng	98
20) 4,6-Dinitro-2-methylph...	15.100	198	341	0.344	ng	# 31
21) 4-Bromophenyl-phenylether	15.891	248	2147	0.365	ng	# 78
22) Hexachlorobenzene	16.003	284	2983	0.431	ng	95
23) Atrazine	16.189	200	1738	0.415	ng	96
24) Pentachlorophenol	16.351	266	2251	0.748	ng	87
25) Phenanthrene	16.735	178	13447	0.486	ng	99
26) Anthracene	16.822	178	11668	0.466	ng	98
28) Fluoranthene	18.775	202	16762	0.450	ng	99
30) Pyrene	19.142	202	17829	0.508	ng	99
32) Benzo(a)anthracene	20.920	228	15744	0.474	ng	100
33) Chrysene	20.974	228	16946	0.494	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6876	0.524	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	16588	0.425	ng	98
37) Benzo(b)fluoranthene	22.412	252	22222	0.608	ng	# 93
38) Benzo(k)fluoranthene	22.453	252	18080	0.503	ng	# 93
39) Benzo(a)pyrene	22.933	252	14639	0.486	ng	# 90
40) Dibenzo(a,h)anthracene	25.064	278	12290	0.399	ng	94
41) Benzo(g,h,i)perylene	25.655	276	13609	0.423	ng	98

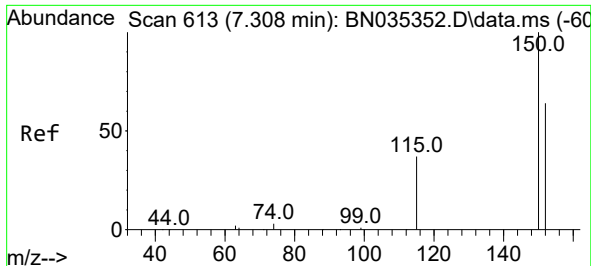
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

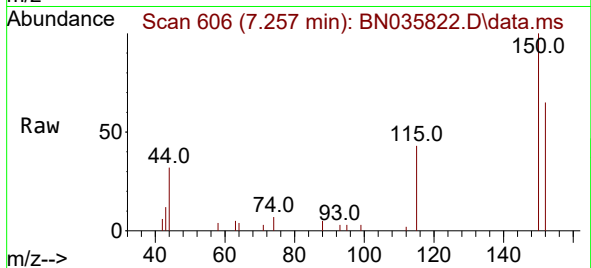
Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



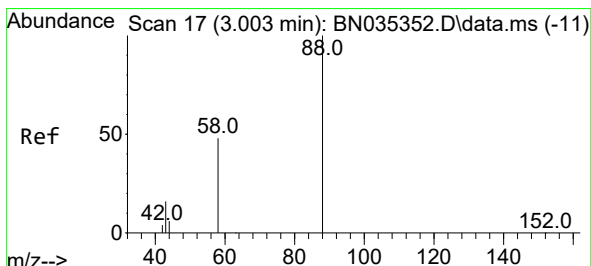
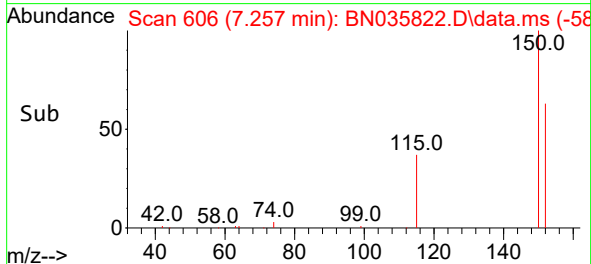
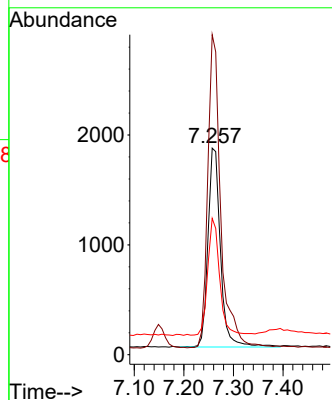


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035822.D
 Acq: 24 Dec 2024 15:31

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MSD

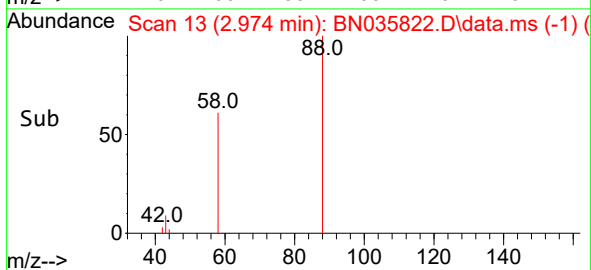
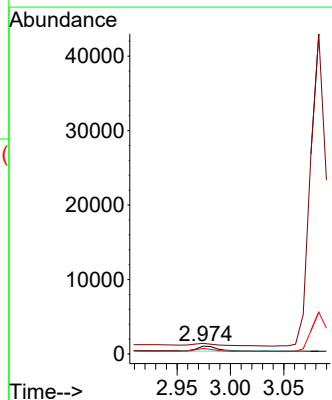
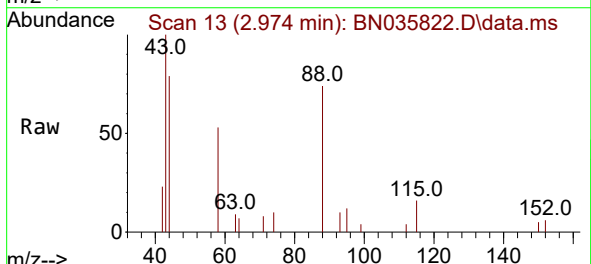


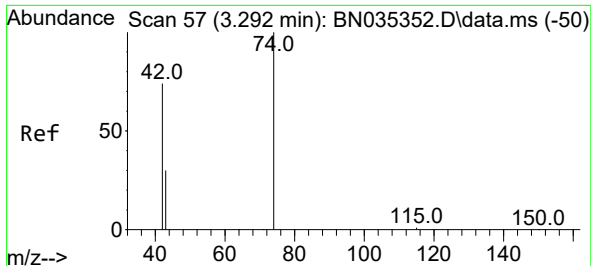
Tgt Ion:152 Resp: 3187
 Ion Ratio Lower Upper
 152 100
 150 154.9 124.0 186.0
 115 66.0 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.306 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035822.D
 Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932
 Ion Ratio Lower Upper
 88 100
 43 0.0 17.2 25.8#
 58 67.9 44.5 66.7#

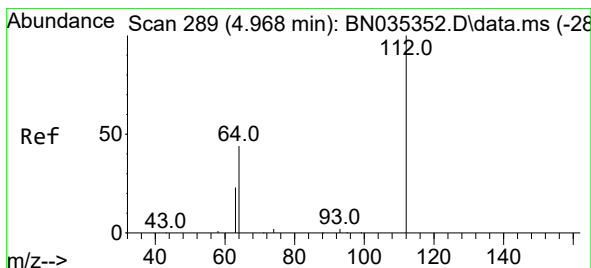
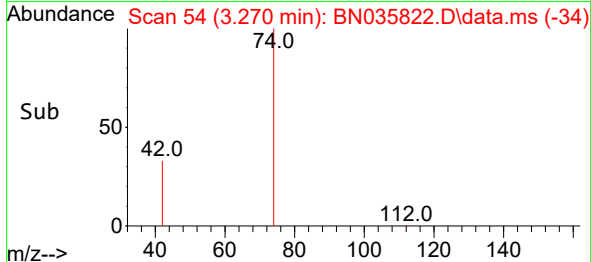
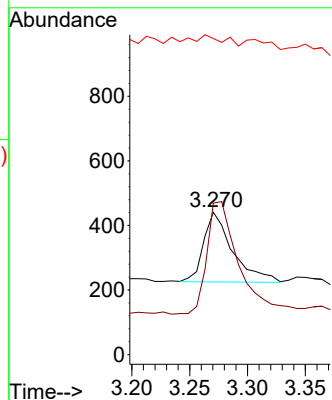
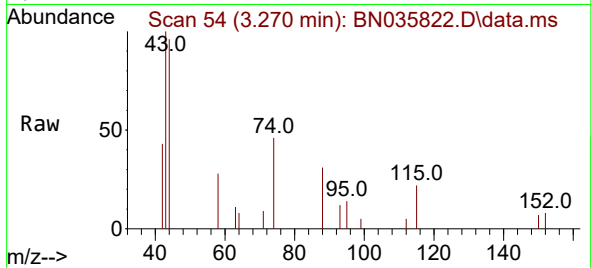




#3
 n-Nitrosodimethylamine
 Concen: 0.148 ng
 RT: 3.270 min Scan# 54
 Delta R.T. -0.007 min
 Lab File: BN035822.D
 Acq: 24 Dec 2024 15:31

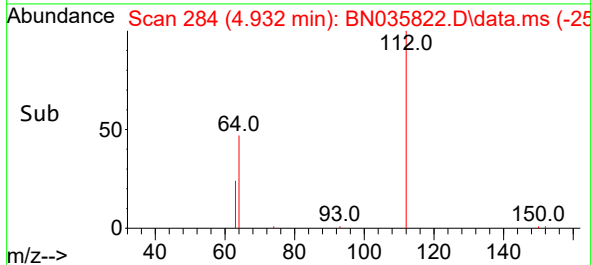
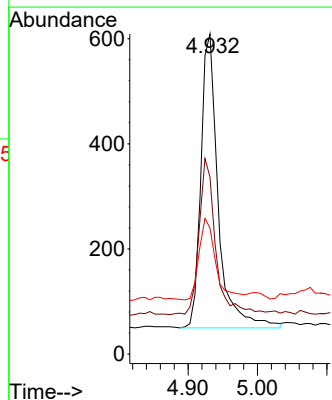
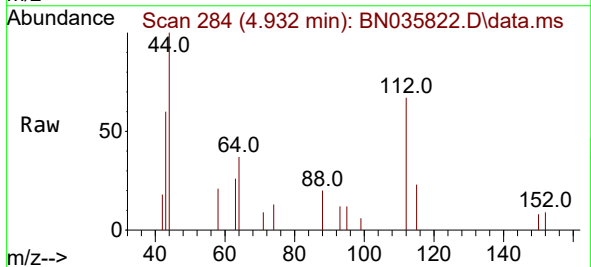
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MSD

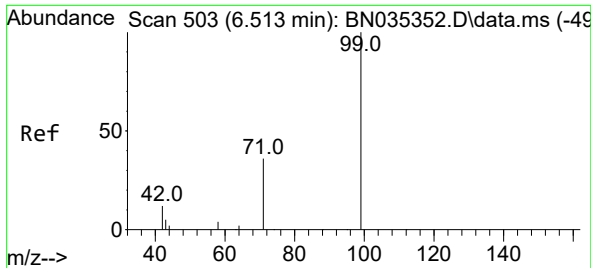
Tgt Ion: 42 Resp: 376
 Ion Ratio Lower Upper
 42 100
 74 180.6 124.9 187.3
 44 0.0 2.2 3.4#



#4
 2-Fluorophenol
 Concen: 0.121 ng
 RT: 4.932 min Scan# 284
 Delta R.T. -0.007 min
 Lab File: BN035822.D
 Acq: 24 Dec 2024 15:31

Tgt Ion: 112 Resp: 967
 Ion Ratio Lower Upper
 112 100
 64 52.6 39.8 59.8
 63 27.0 21.0 31.6

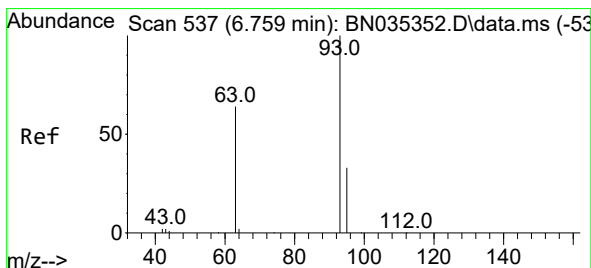
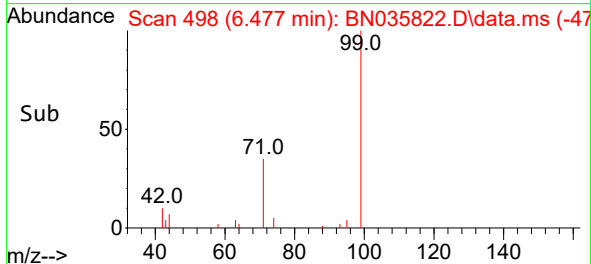
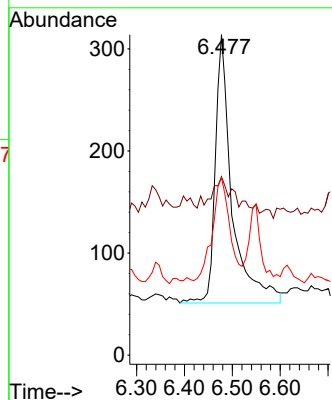
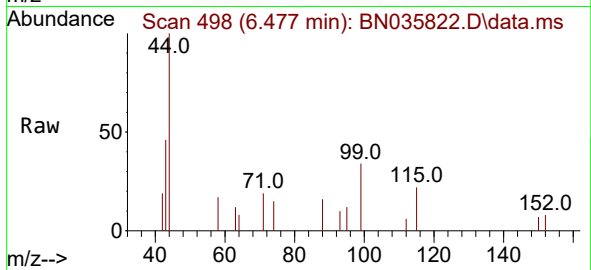




#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

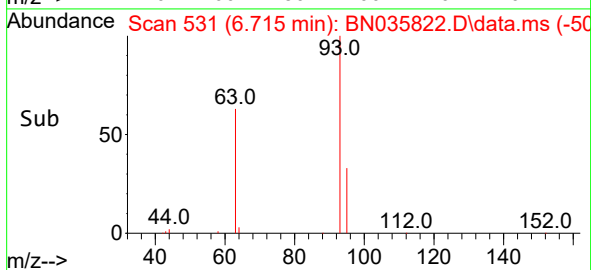
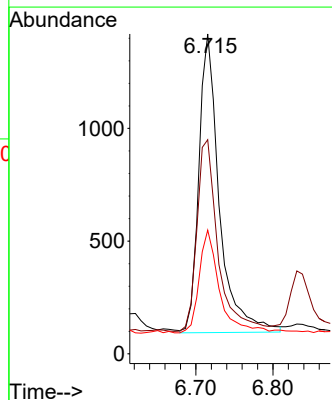
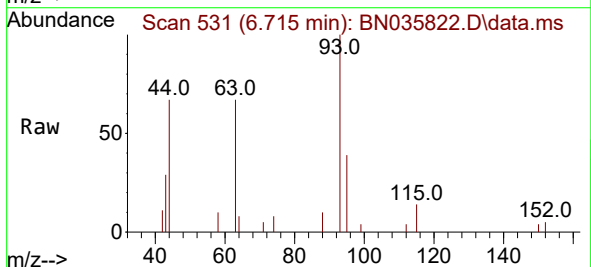
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

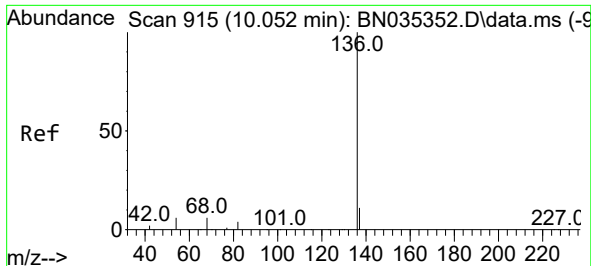
Tgt Ion: 99 Resp: 640
Ion Ratio Lower Upper
99 100
42 16.3 11.4 17.2
71 42.2 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448
Ion Ratio Lower Upper
93 100
63 66.0 50.4 75.6
95 35.5 25.7 38.5

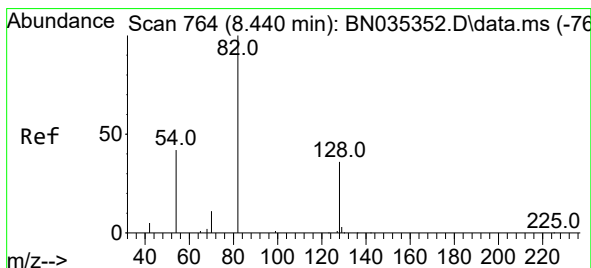
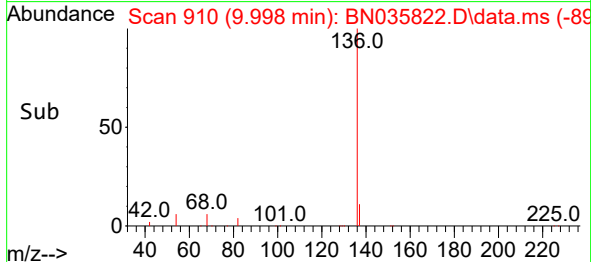
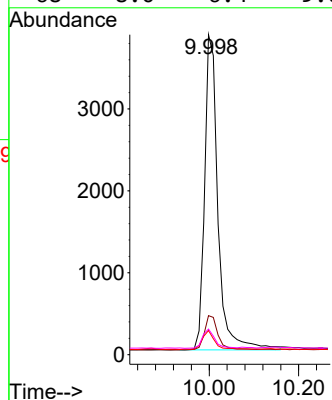
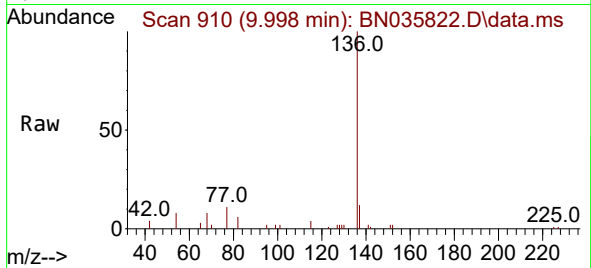




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

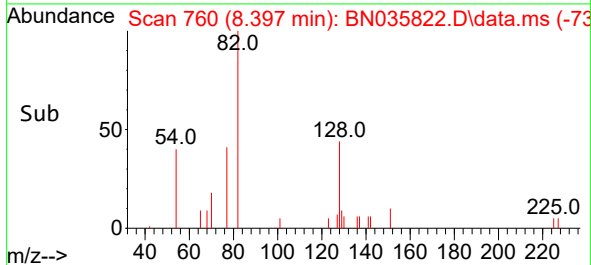
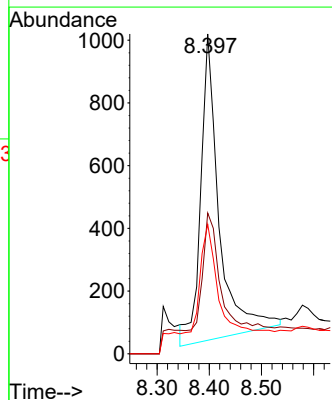
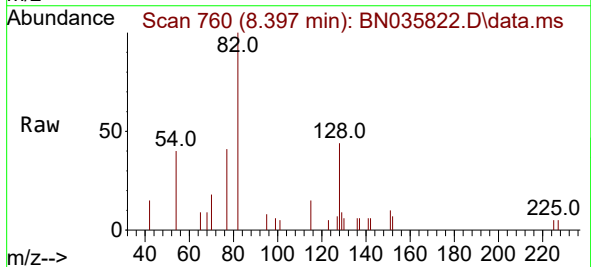
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

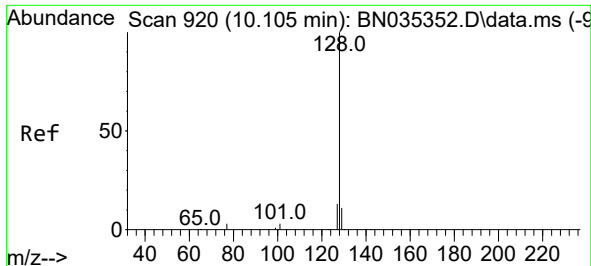
Tgt Ion:136	Resp:	7953
Ion Ratio	Lower	Upper
136	100	
137	12.2	10.2 15.2
54	7.6	6.1 9.1
68	8.0	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.490 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 82	Resp:	2382
Ion Ratio	Lower	Upper
82	100	
128	44.0	33.4 50.0
54	40.5	36.7 55.1

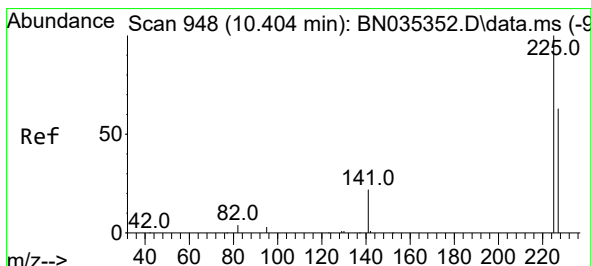
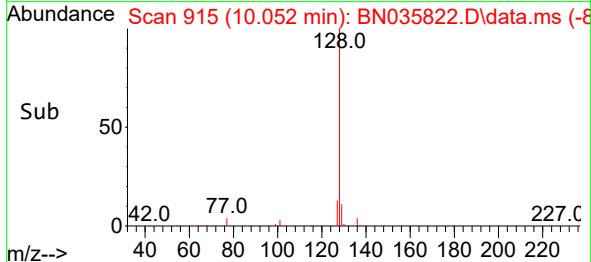
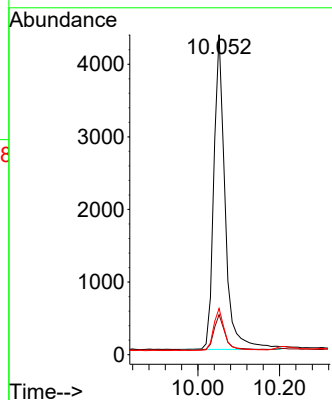
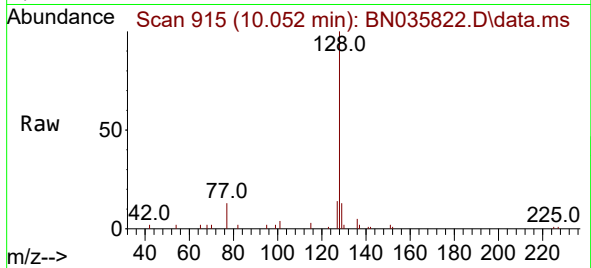




#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

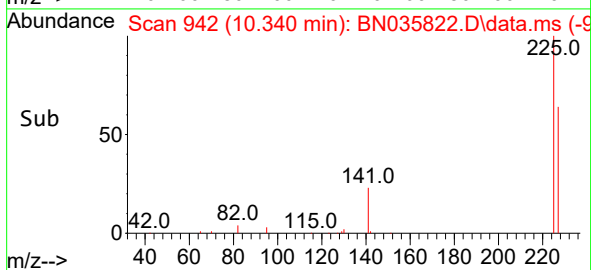
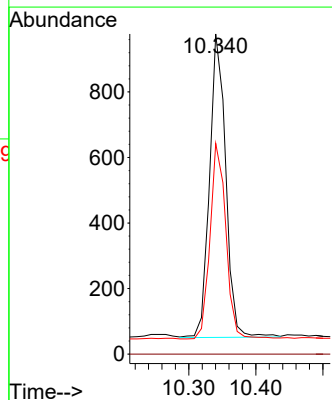
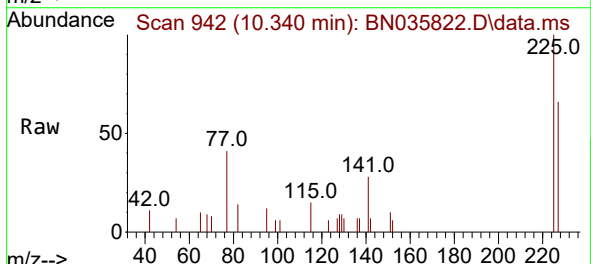
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

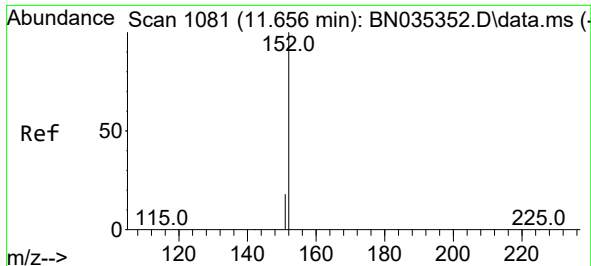
Tgt Ion:	128	Resp:	8332
Ion Ratio	Lower	Upper	
128	100		
129	12.5	9.8	14.6
127	14.4	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:	225	Resp:	1549
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9





#11

2-Methylnaphthalene-d10

Concen: 0.433 ng

RT: 11.605 min Scan# 1071

Delta R.T. -0.015 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

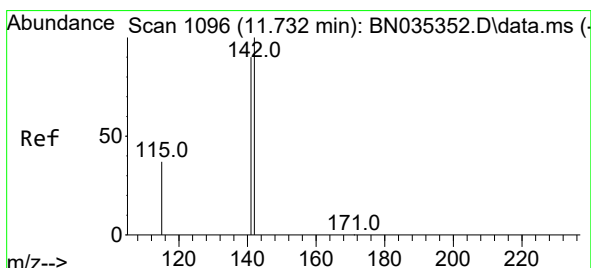
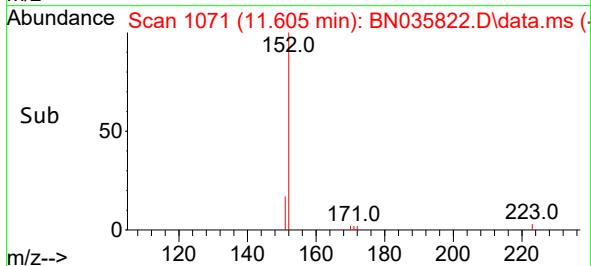
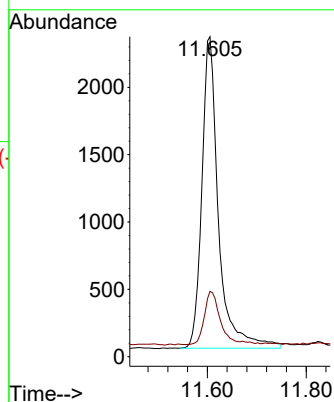
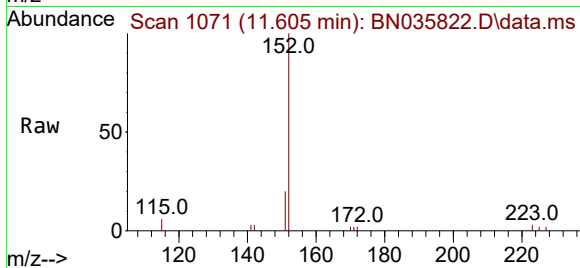
RW10-MW01S-20241218MSD

Tgt Ion:152 Resp: 5387

Ion Ratio Lower Upper

152 100

151 16.6 16.6 25.0#



#12

2-Methylnaphthalene

Concen: 0.371 ng

RT: 11.681 min Scan# 1086

Delta R.T. -0.015 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

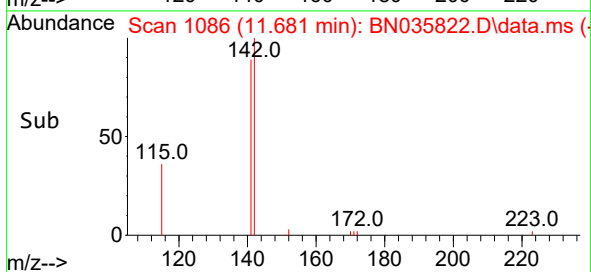
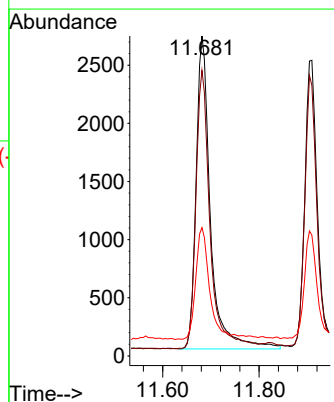
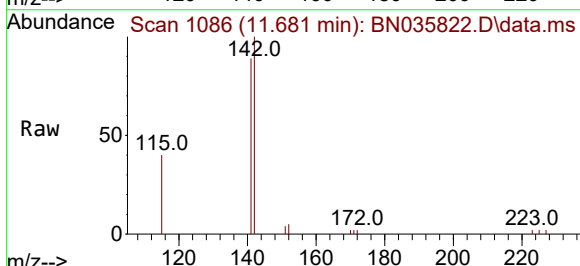
Tgt Ion:142 Resp: 5571

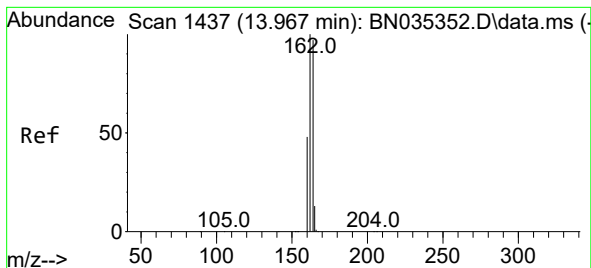
Ion Ratio Lower Upper

142 100

141 89.2 72.2 108.4

115 40.1 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: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

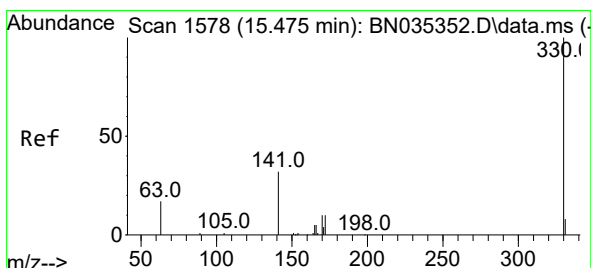
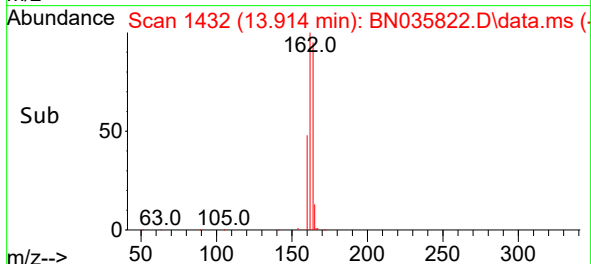
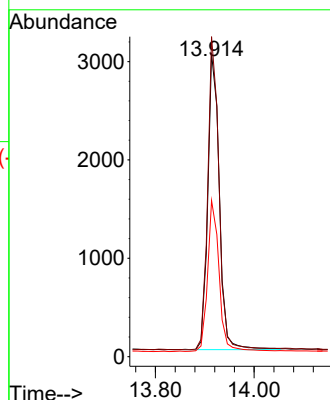
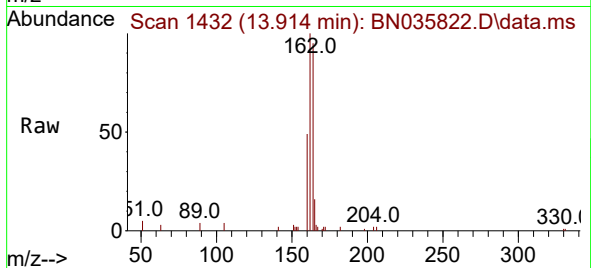
Tgt Ion:164 Resp: 4887

Ion Ratio Lower Upper

164 100

162 105.6 82.2 123.2

160 51.5 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.227 ng

RT: 15.442 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

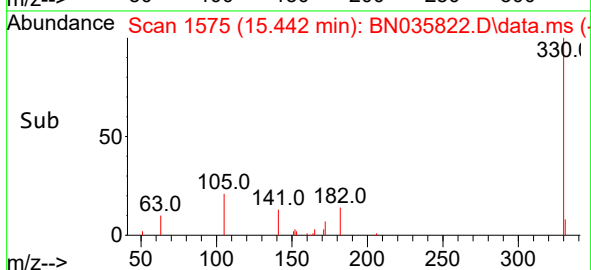
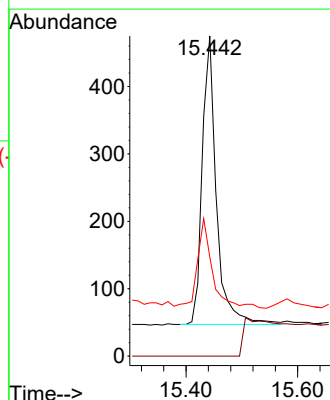
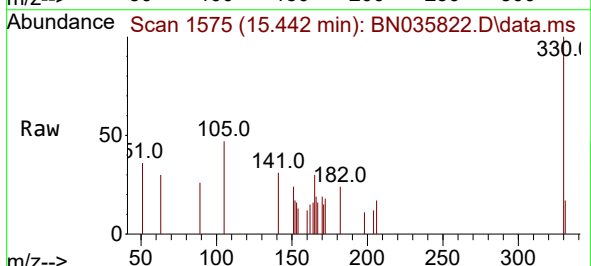
Tgt Ion:330 Resp: 787

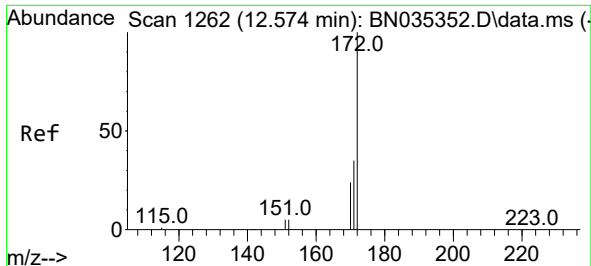
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.5 26.6 40.0

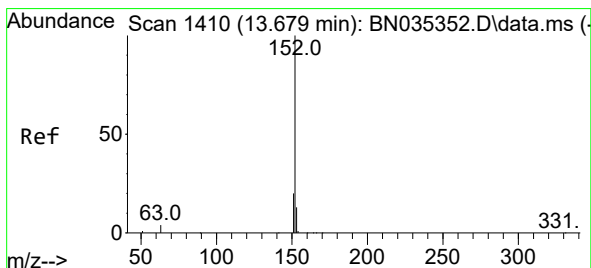
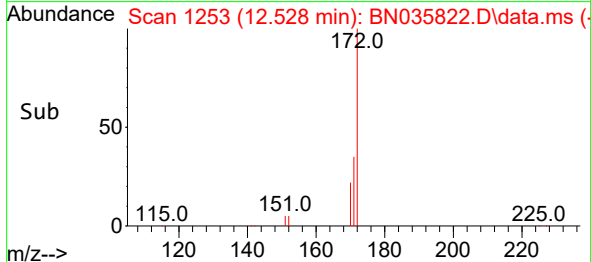
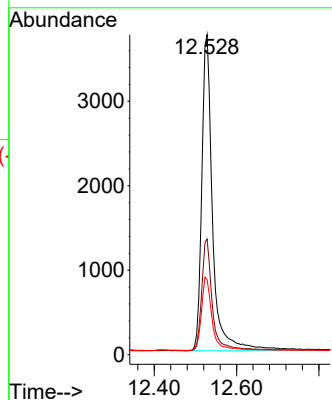
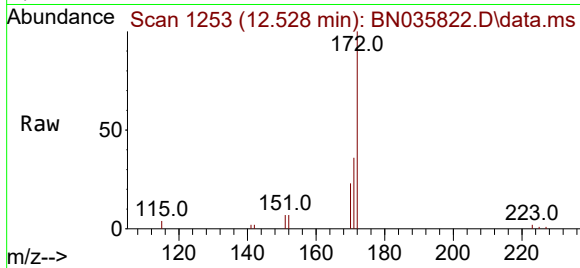




#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

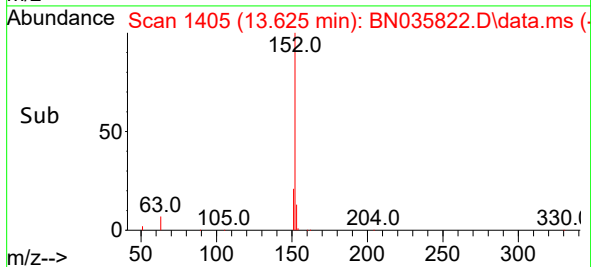
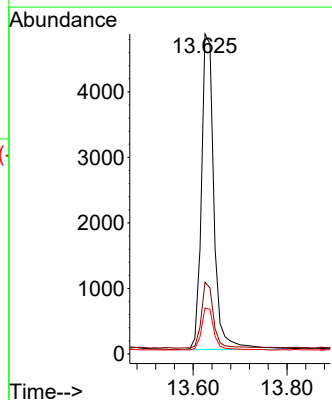
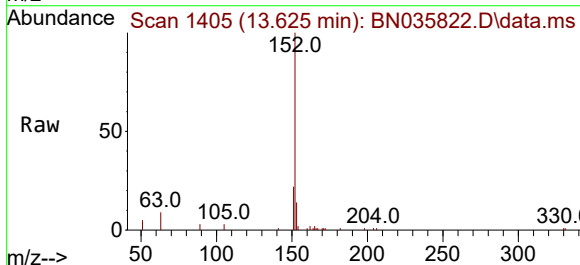
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

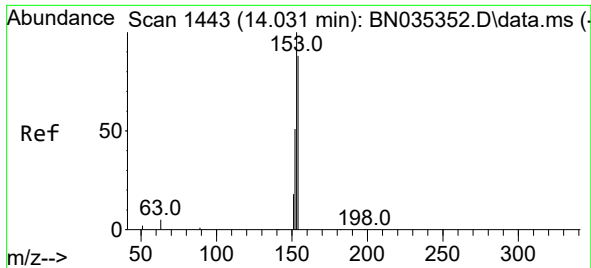
Tgt Ion:172 Resp: 6851
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.4
170 23.5 19.8 29.8



#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2
153 13.4 10.4 15.6

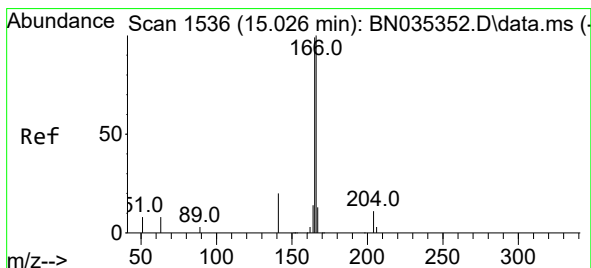
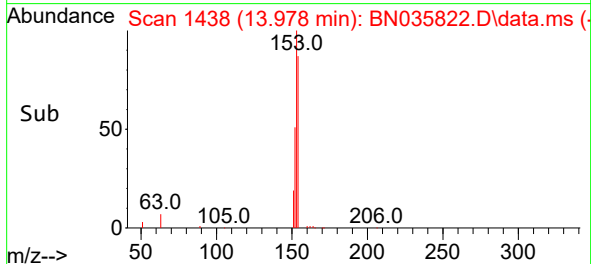
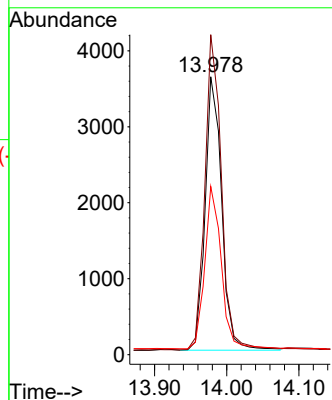
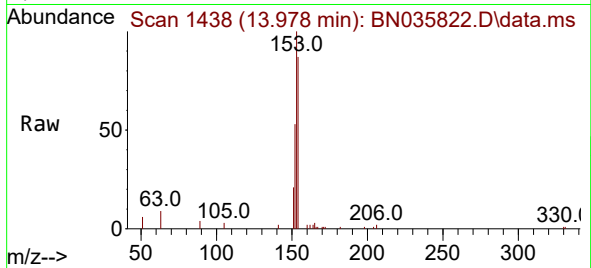




#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

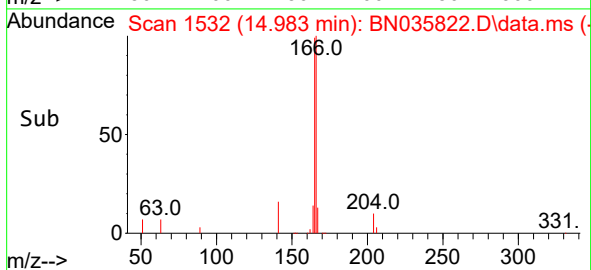
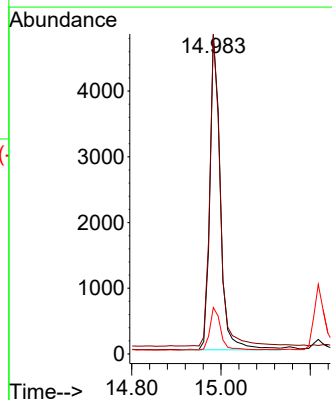
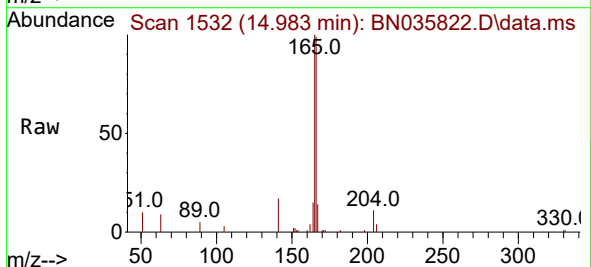
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

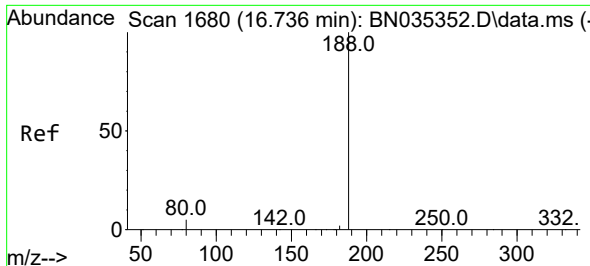
Tgt Ion:154 Resp: 5758
Ion Ratio Lower Upper
154 100
153 115.8 92.6 139.0
152 58.9 49.0 73.6



#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.9 10.8 16.2

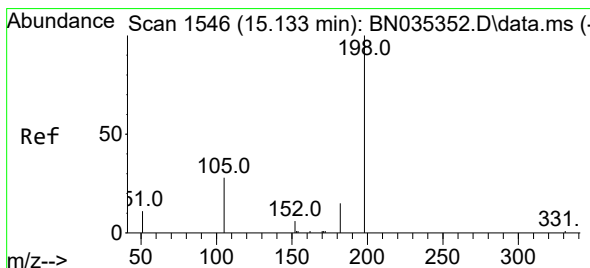
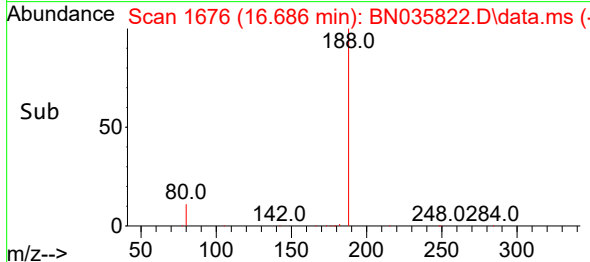
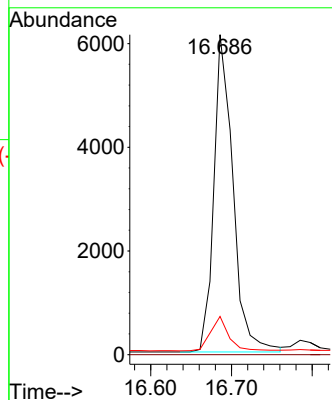
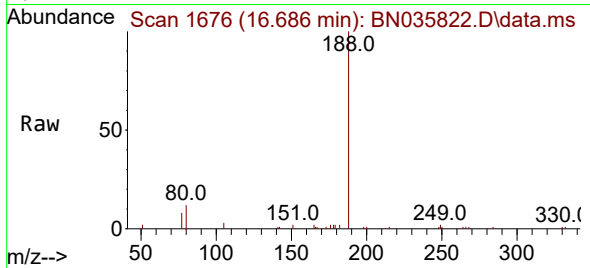




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

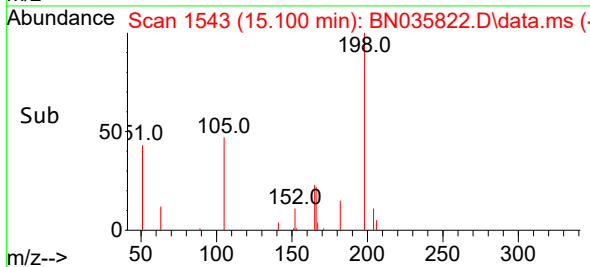
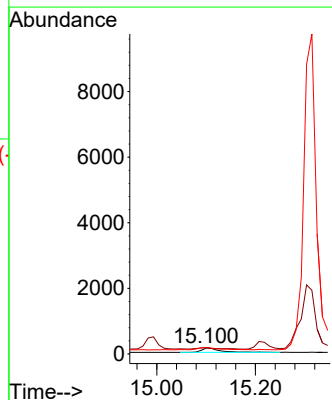
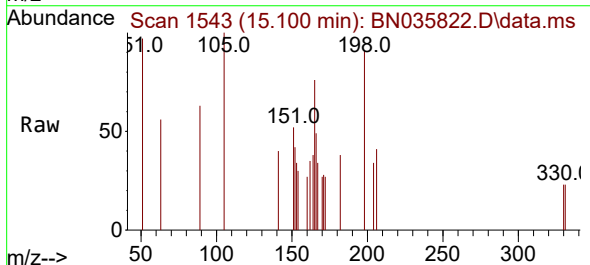
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

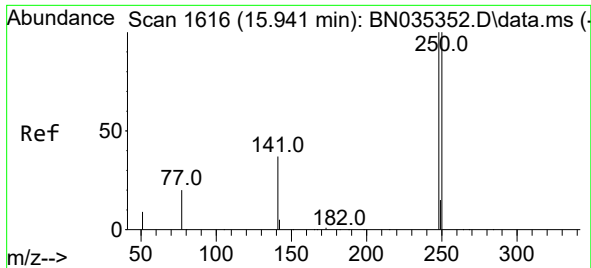
Tgt Ion:188 Resp: 10068
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.9 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:198 Resp: 341
Ion Ratio Lower Upper
198 100
51 106.6 46.5 69.7#
105 109.9 45.3 67.9#

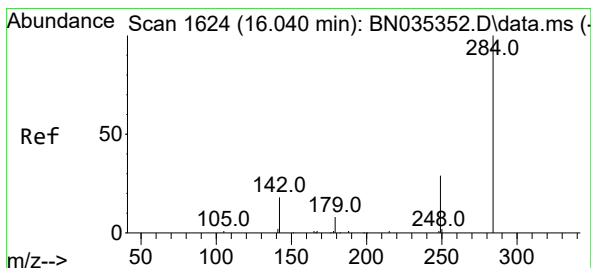
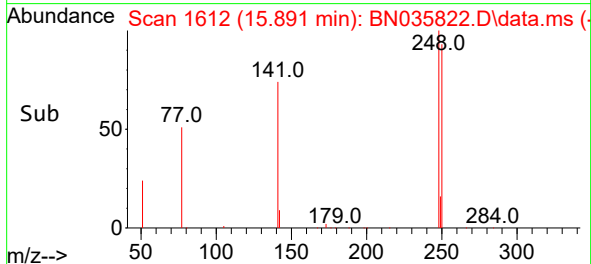
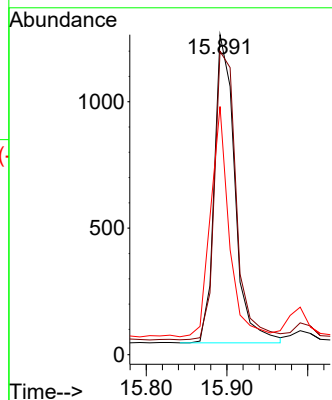
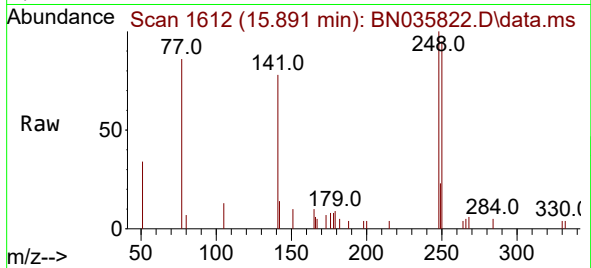




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

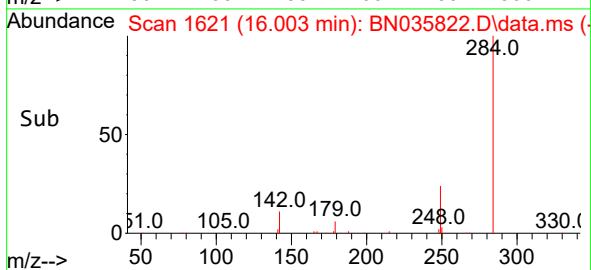
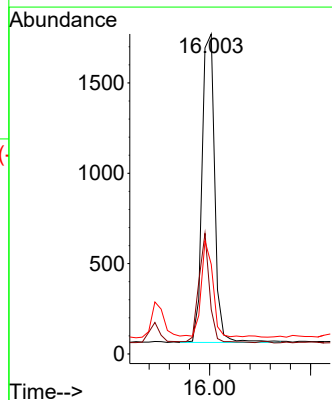
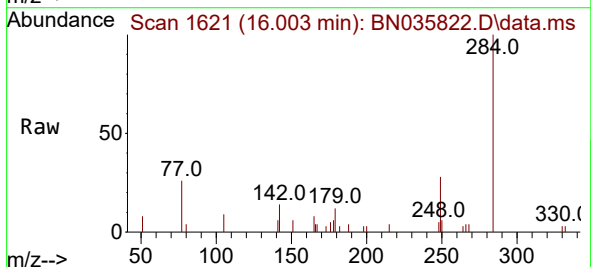
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

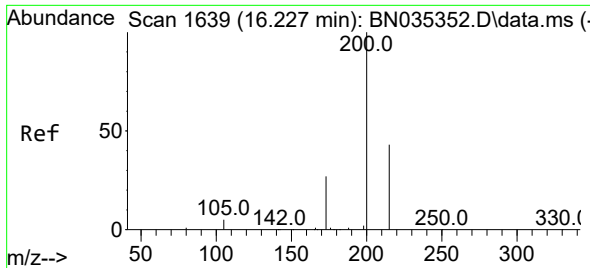
Tgt Ion:248 Resp: 2147
Ion Ratio Lower Upper
248 100
250 94.8 80.6 120.8
141 77.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983
Ion Ratio Lower Upper
284 100
142 30.0 26.7 40.1
249 28.6 24.6 36.8

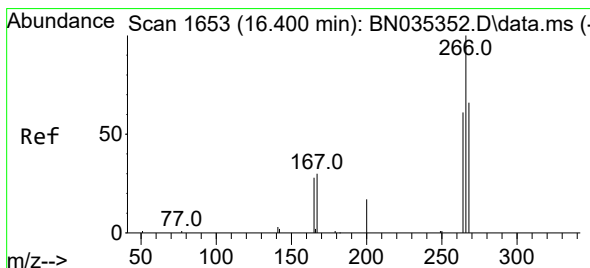
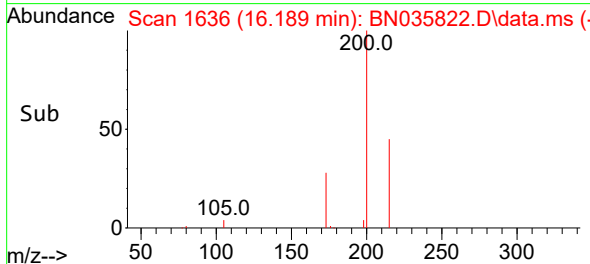
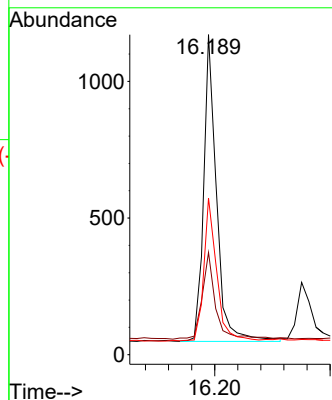
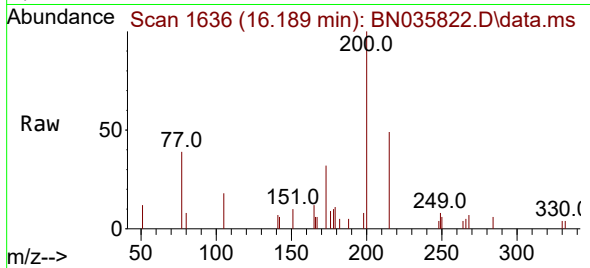




#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

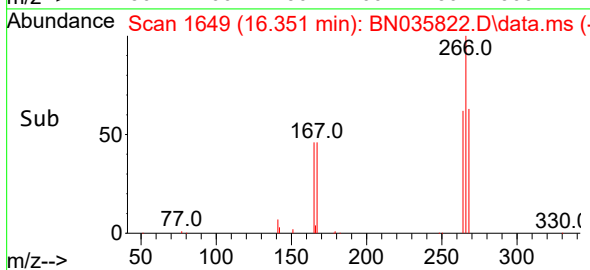
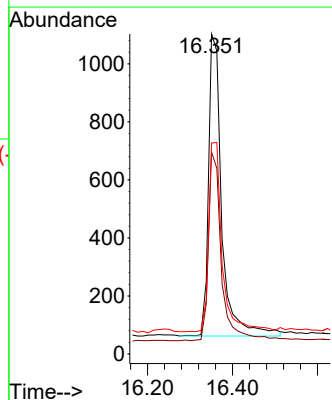
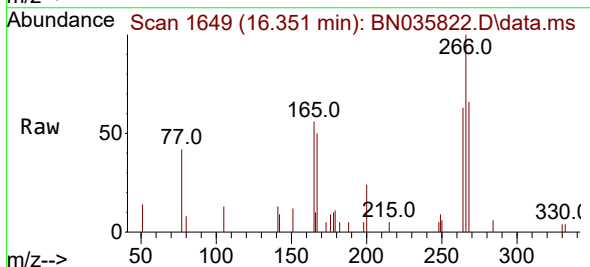
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

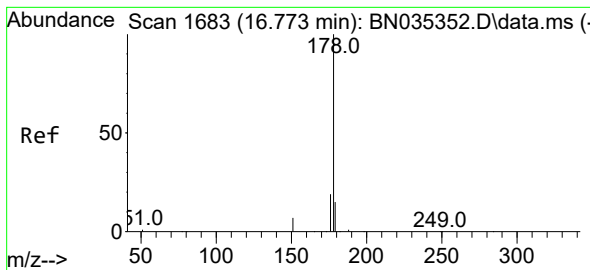
Tgt Ion:200 Resp: 1738
Ion Ratio Lower Upper
200 100
173 31.9 24.1 36.1
215 48.9 36.9 55.3



#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251
Ion Ratio Lower Upper
266 100
264 61.1 42.3 63.5
268 64.2 43.3 64.9





#25

Phenanthrene

Concen: 0.486 ng

RT: 16.735 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

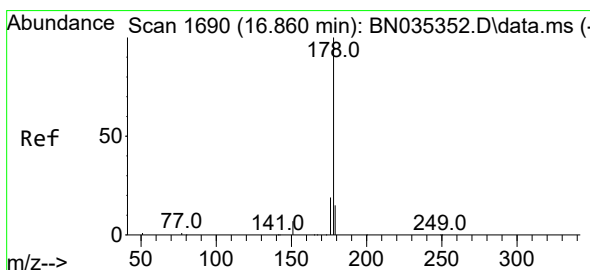
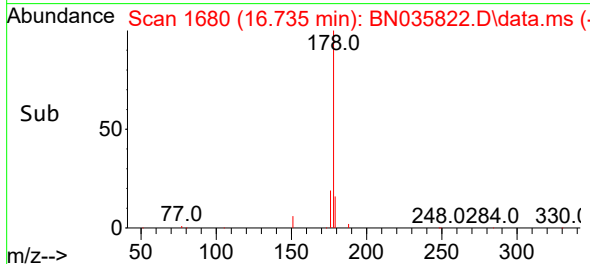
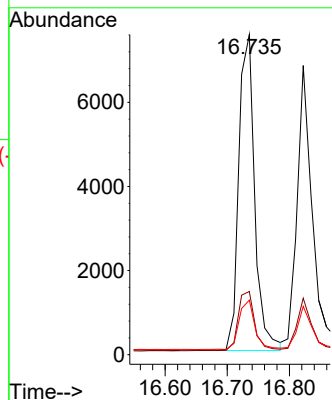
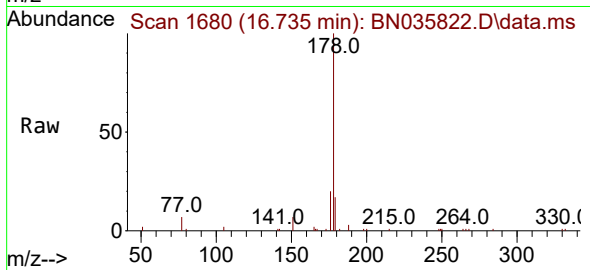
Tgt Ion:178 Resp: 13447

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.466 ng

RT: 16.822 min Scan# 1687

Delta R.T. -0.013 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

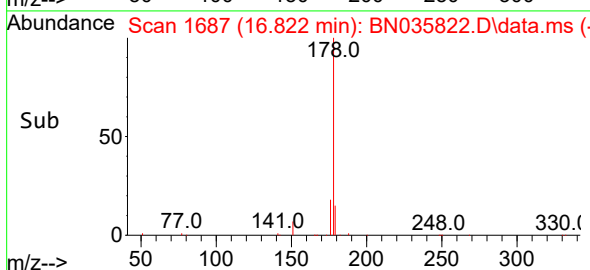
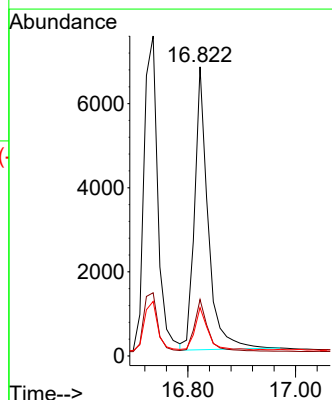
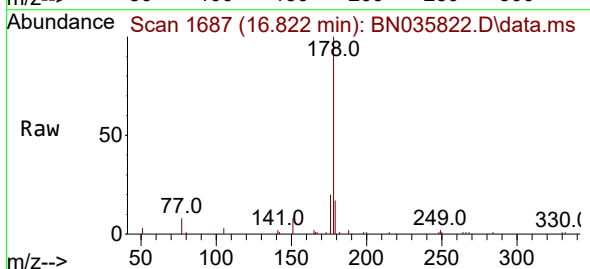
Tgt Ion:178 Resp: 11668

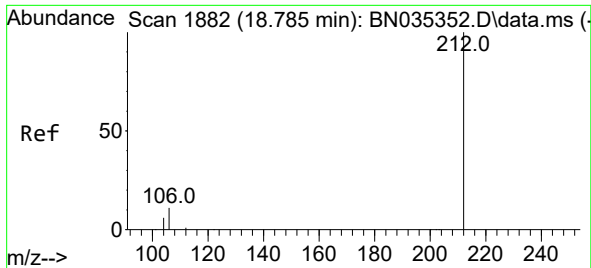
Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.6

179 14.9 12.6 18.8

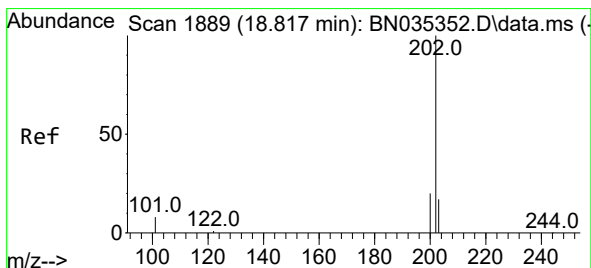
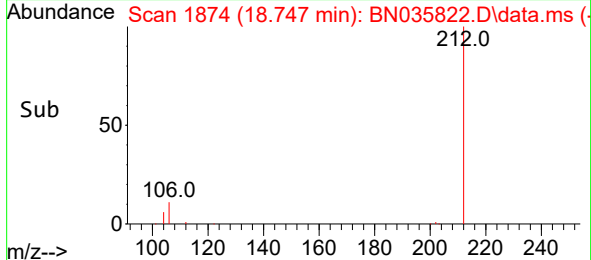
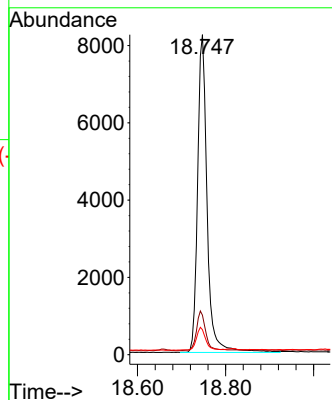
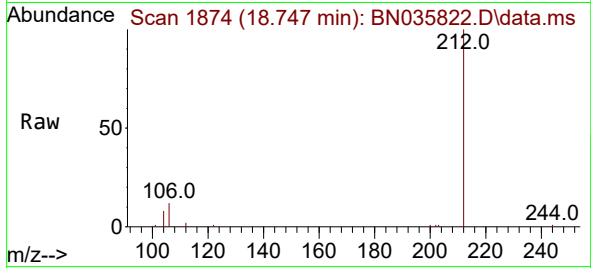




#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

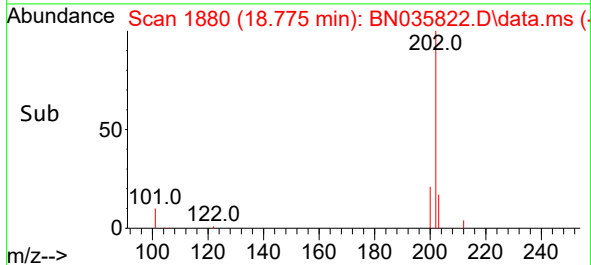
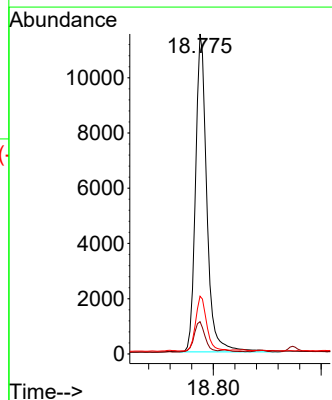
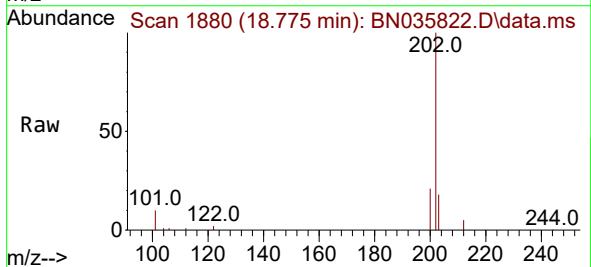
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

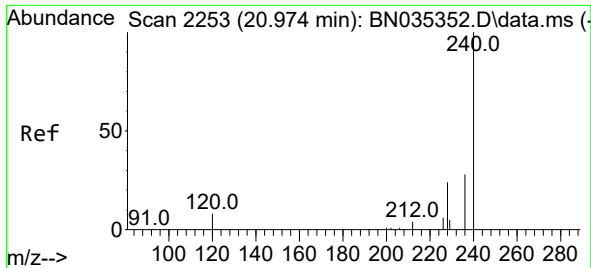
Tgt Ion:212 Resp: 12293
Ion Ratio Lower Upper
212 100
106 12.4 9.2 13.8
104 6.8 5.3 7.9



#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 16.8 13.7 20.5

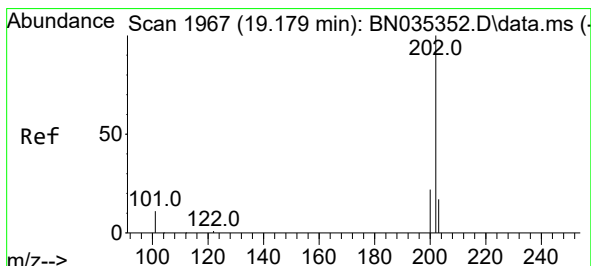
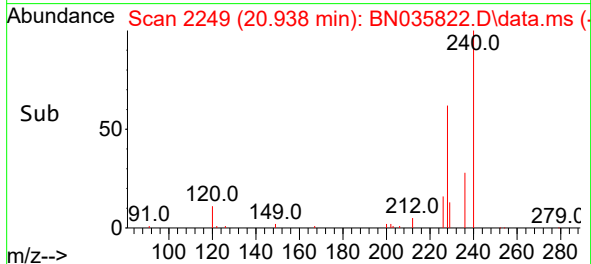
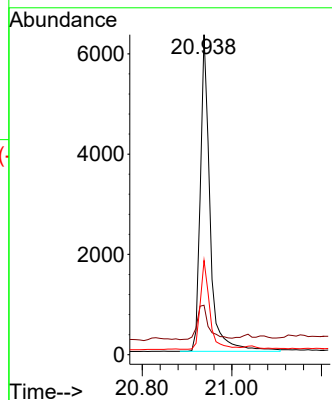
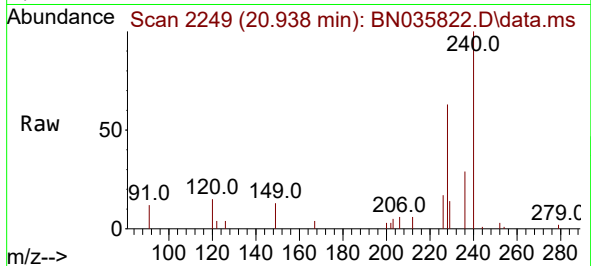




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

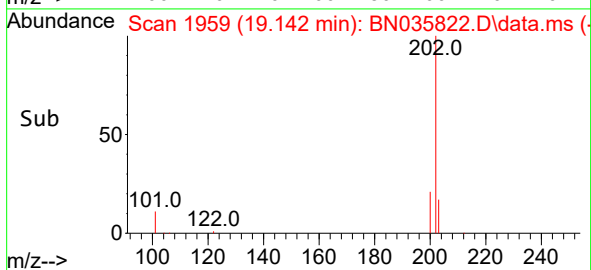
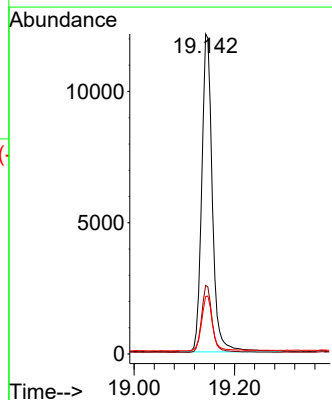
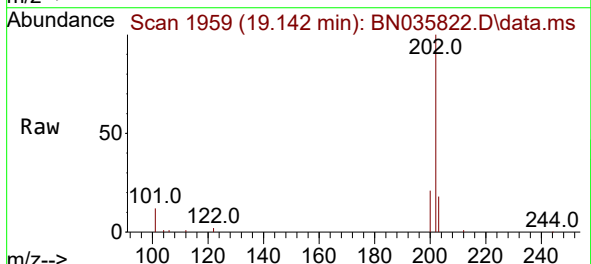
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

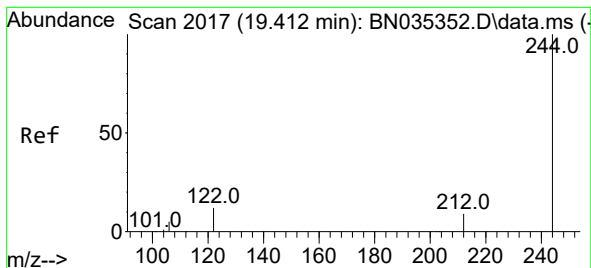
Tgt Ion:240 Resp: 9501
Ion Ratio Lower Upper
240 100
120 15.4 7.9 11.9#
236 29.5 22.9 34.3



#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.513 ng

RT: 19.374 min Scan# 2017

Delta R.T. -0.014 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

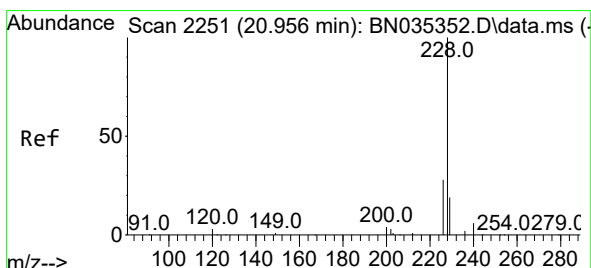
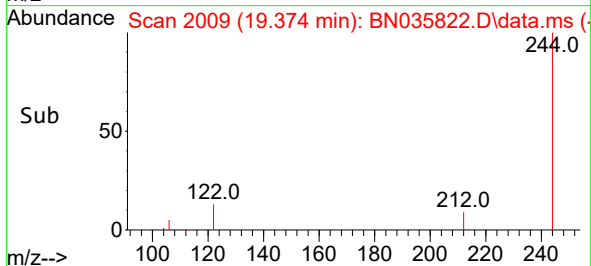
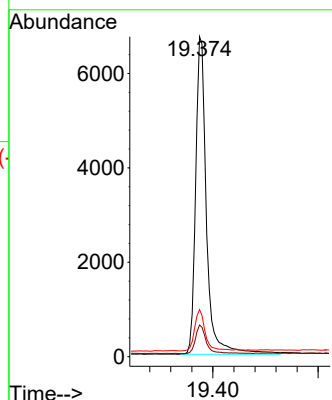
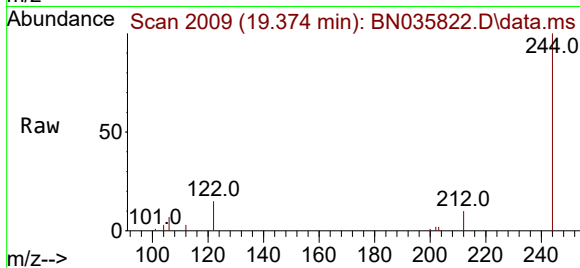
Tgt Ion:244 Resp: 9610

Ion Ratio Lower Upper

244 100

212 9.9 8.1 12.1

122 14.7 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.474 ng

RT: 20.920 min Scan# 2247

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

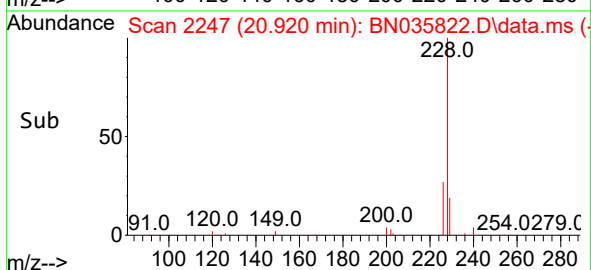
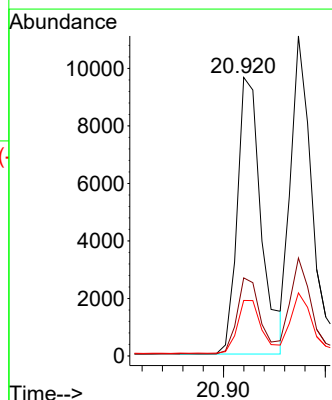
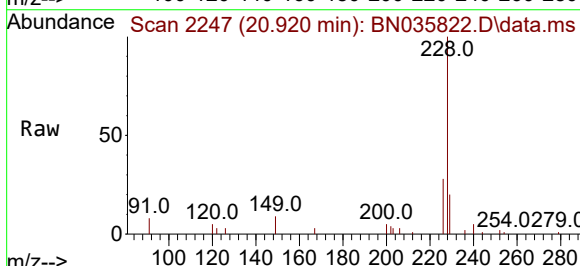
Tgt Ion:228 Resp: 15744

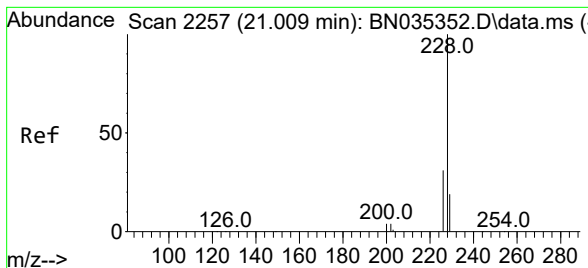
Ion Ratio Lower Upper

228 100

226 28.0 22.5 33.7

229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.494 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20241218MSD

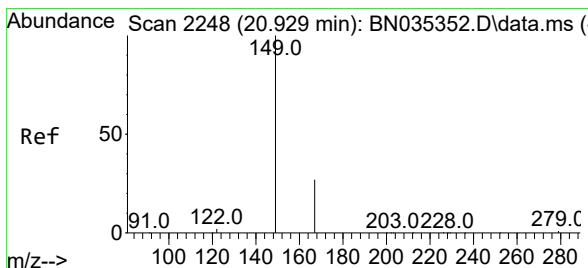
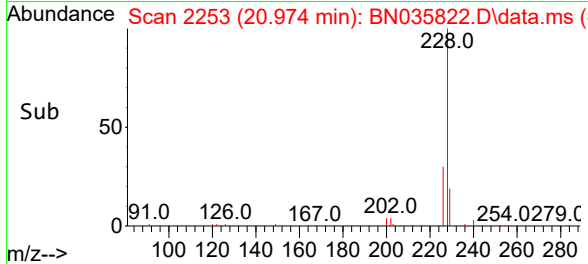
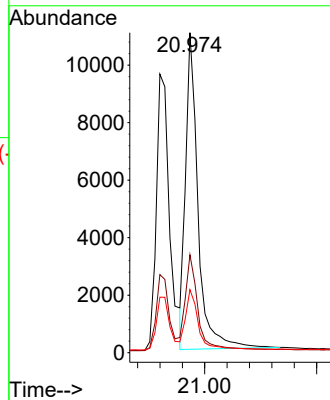
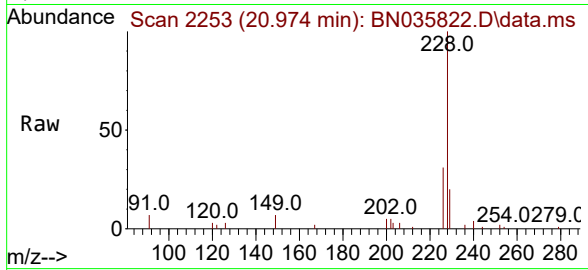
Tgt Ion:228 Resp: 16946

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.7 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.524 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035822.D

Acq: 24 Dec 2024 15:31

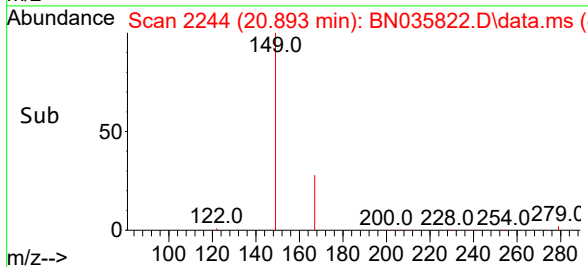
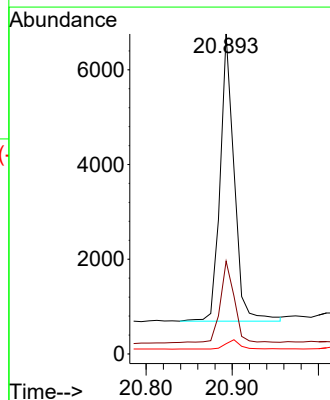
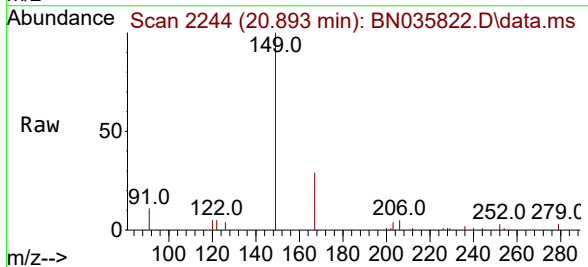
Tgt Ion:149 Resp: 6876

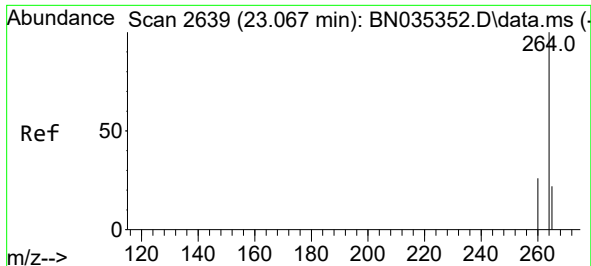
Ion Ratio Lower Upper

149 100

167 27.4 22.2 33.4

279 3.2 2.7 4.1

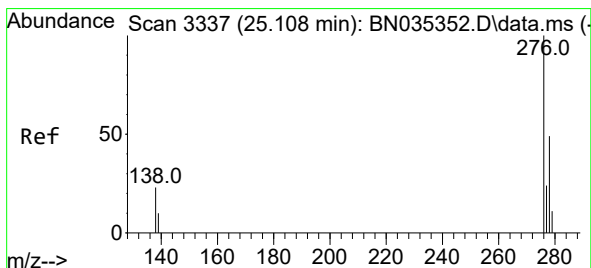
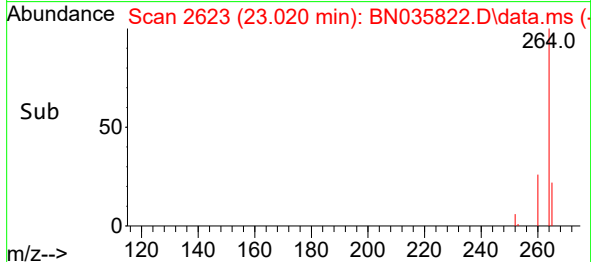
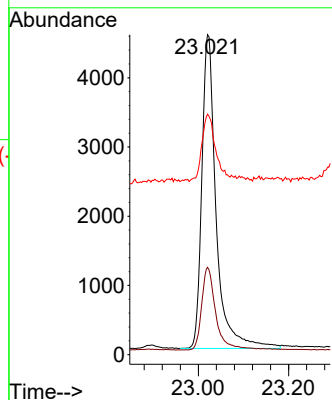
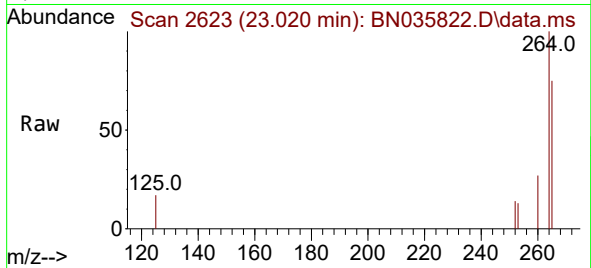




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2623
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

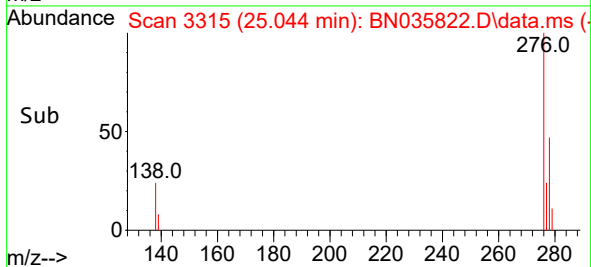
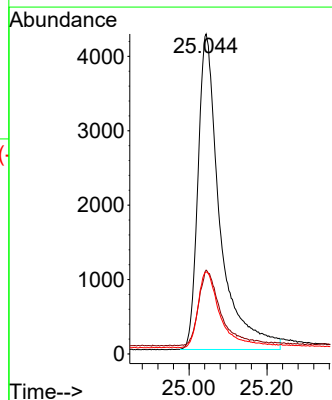
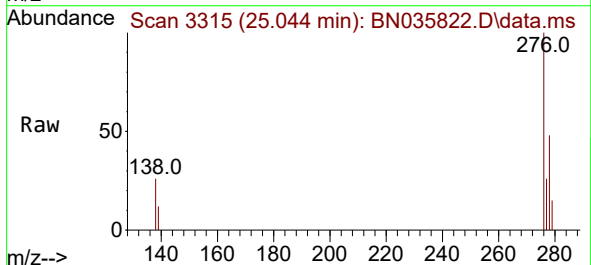
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

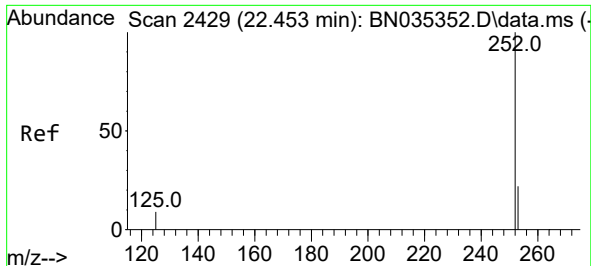
Tgt Ion:264 Resp: 9990
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 75.1 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

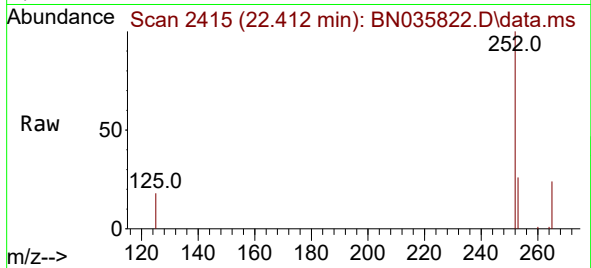
Tgt Ion:276 Resp: 16588
Ion Ratio Lower Upper
276 100
138 23.3 19.4 29.0
277 23.8 19.8 29.6



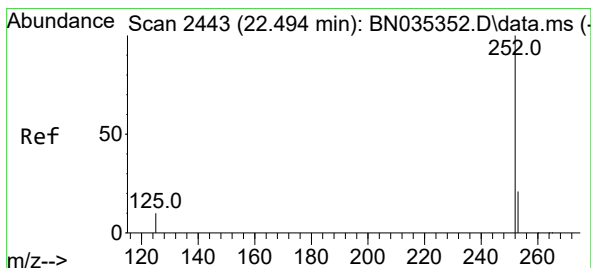
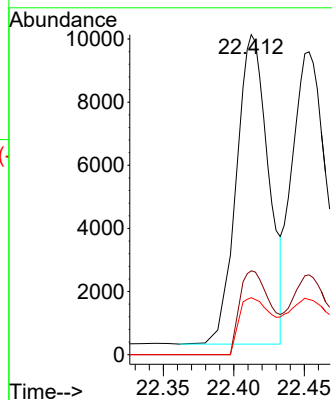


#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

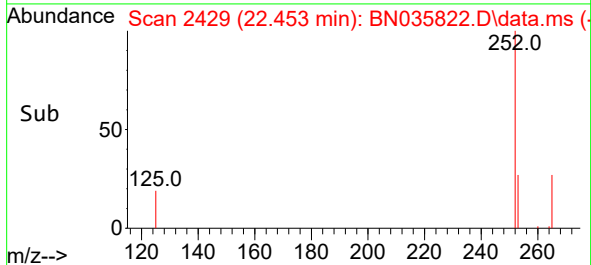
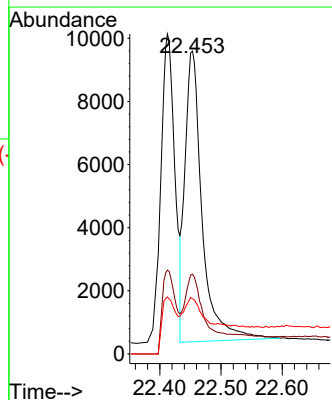
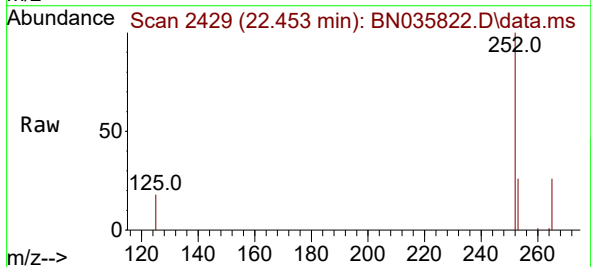


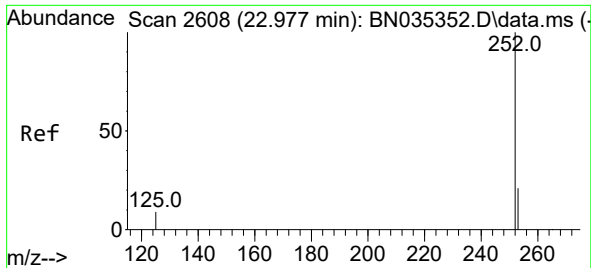
Tgt Ion:252 Resp: 22222
Ion Ratio Lower Upper
252 100
253 26.2 19.6 29.4
125 17.8 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

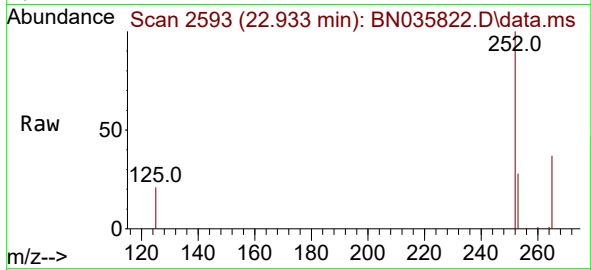
Tgt Ion:252 Resp: 18080
Ion Ratio Lower Upper
252 100
253 26.3 19.5 29.3
125 18.2 10.2 15.4#



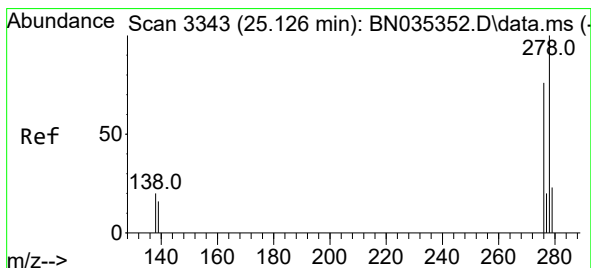
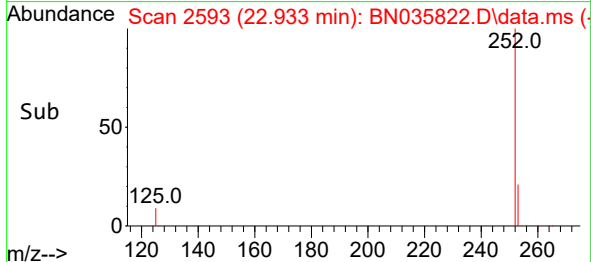
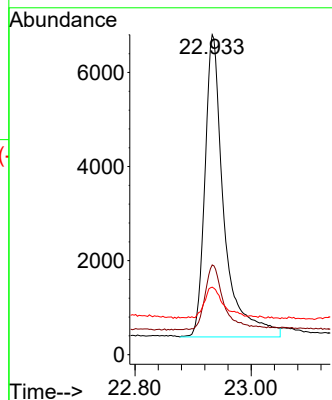


#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

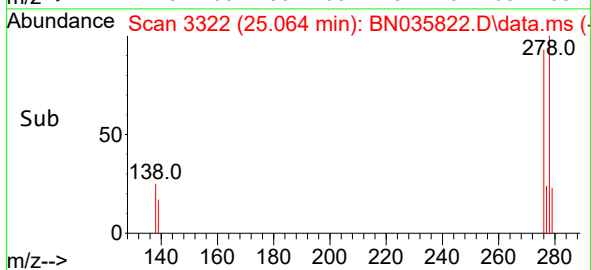
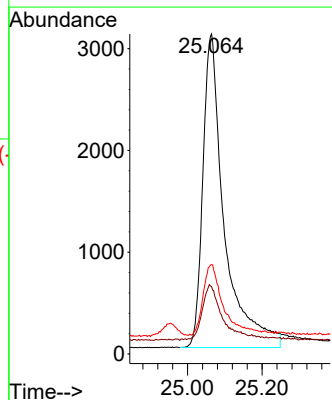
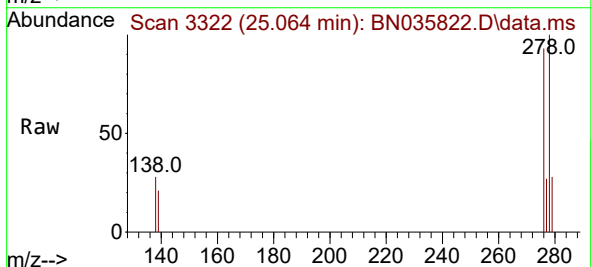


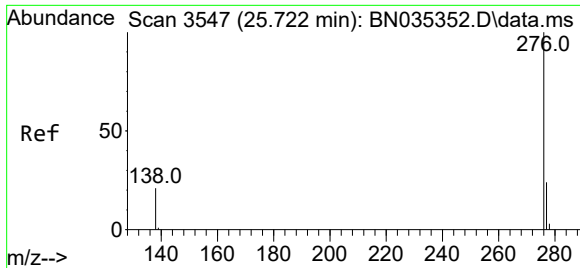
Tgt Ion:252 Resp: 14639
Ion Ratio Lower Upper
252 100
253 28.1 20.2 30.4
125 21.1 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

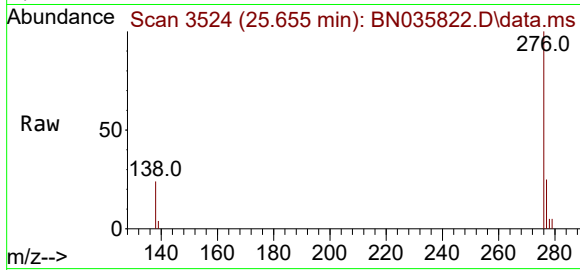
Tgt Ion:278 Resp: 12290
Ion Ratio Lower Upper
278 100
139 21.1 14.2 21.4
279 28.0 20.5 30.7



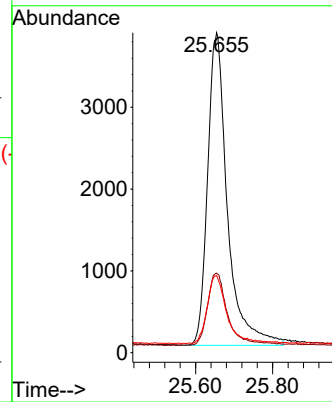
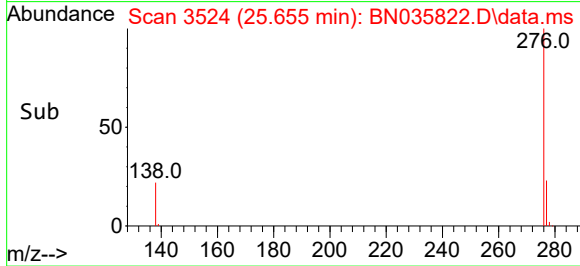


#41
 Benzo(g,h,i)perylene
 Concen: 0.423 ng
 RT: 25.655 min Scan# 31
 Delta R.T. -0.024 min
 Lab File: BN035822.D
 Acq: 24 Dec 2024 15:31

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20241218MSD



Tgt Ion:	276	Resp:	13609
Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	24.1	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035823.D
 Acq On : 24 Dec 2024 16:06
 Operator : RC/JU
 Sample : P5376-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01D-20241218

Quant Time: Dec 24 23:19:31 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

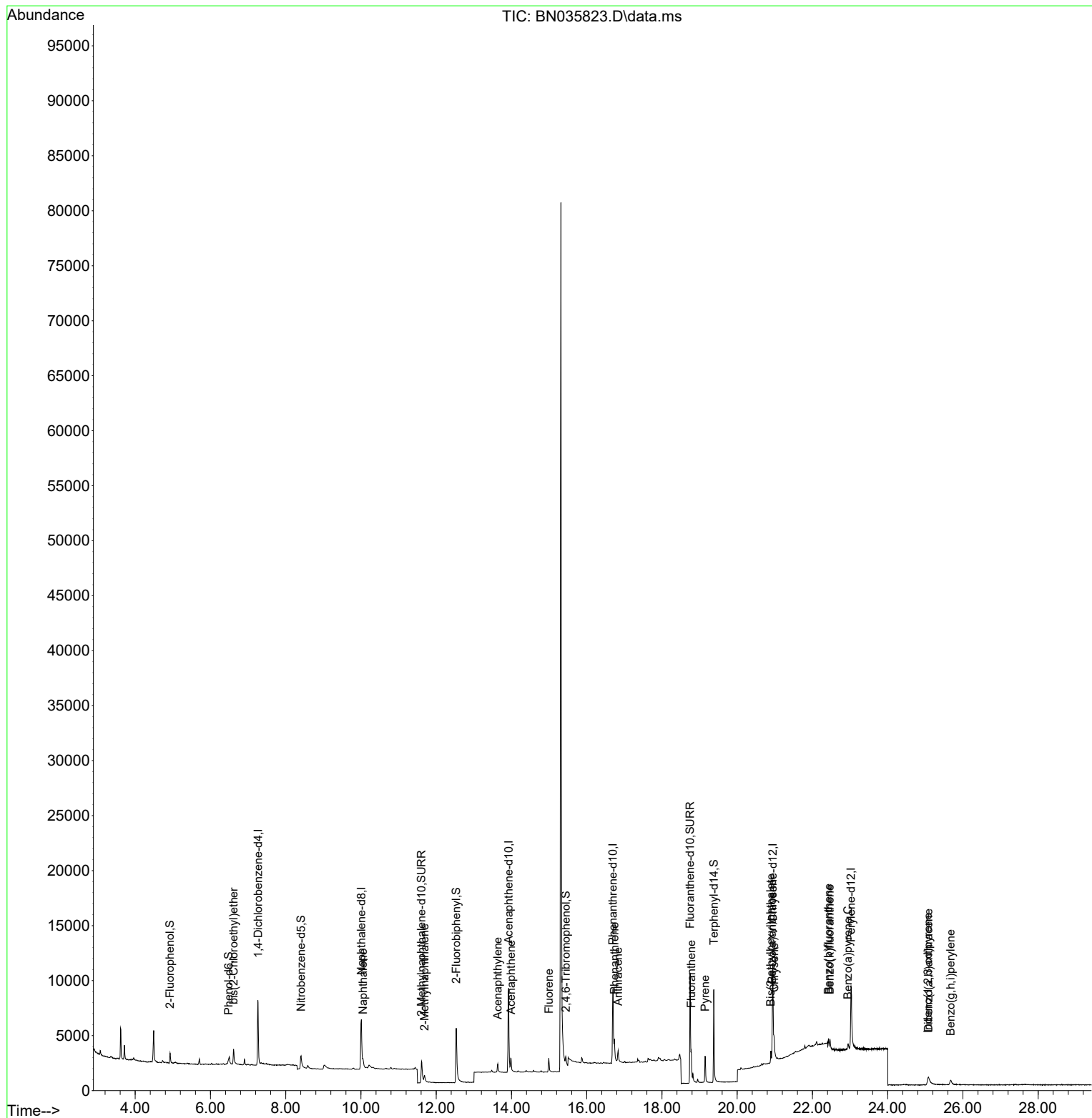
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3352	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8445	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5463	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11816	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9968	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9568	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	842	0.100	ng	-0.01
5) Phenol-d6	6.477	99	482	0.048	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2253	0.437	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4421	0.335	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	799	0.206	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	6936	0.336	ng	-0.01
27) Fluoranthene-d10	18.747	212	13295	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	9869	0.502	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	6.614	93	2739	0.323	ng	# 31
9) Naphthalene	10.052	128	964	0.043	ng	# 77
12) 2-Methylnaphthalene	11.692	142	597	0.037	ng	# 76
16) Acenaphthylene	13.636	152	1063	0.046	ng	# 93
17) Acenaphthene	13.989	154	693	0.045	ng	99
18) Fluorene	14.994	166	956	0.044	ng	96
25) Phenanthrene	16.736	178	2183	0.067	ng	98
26) Anthracene	16.835	178	1383	0.047	ng	98
28) Fluoranthene	18.780	202	2251	0.051	ng	# 96
30) Pyrene	19.147	202	2504	0.068	ng	98
32) Benzo(a)anthracene	20.929	228	1508	0.043	ng	# 91
33) Chrysene	20.983	228	2026	0.056	ng	# 93
34) Bis(2-ethylhexyl)phtha...	20.893	149	1059	0.077	ng	# 95
36) Indeno(1,2,3-cd)pyrene	25.073	276	1384	0.037	ng	# 82
37) Benzo(b)fluoranthene	22.424	252	1754	0.050	ng	# 28
38) Benzo(k)fluoranthene	22.465	252	1557	0.045	ng	# 29
39) Benzo(a)pyrene	22.945	252	959	0.033	ng	# 1
40) Dibenzo(a,h)anthracene	25.085	278	1067	0.036	ng	# 11
41) Benzo(g,h,i)perylene	25.675	276	1130	0.037	ng	# 64

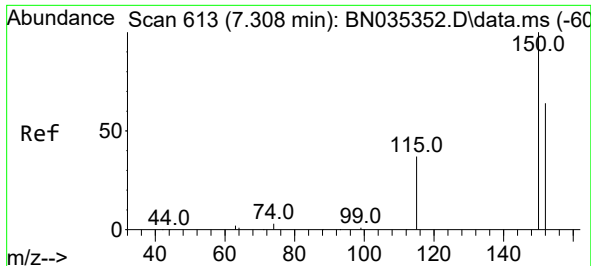
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

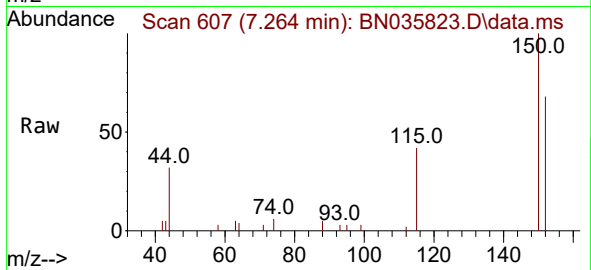
Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



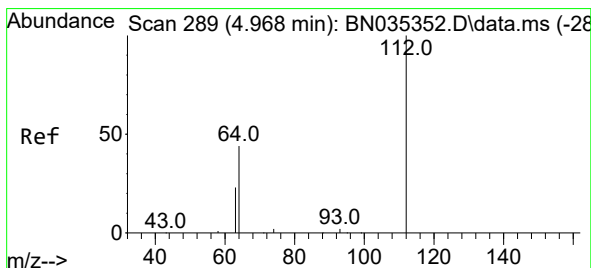
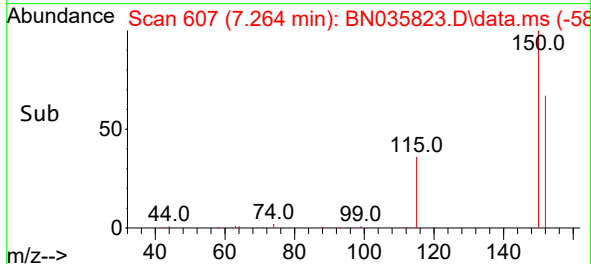
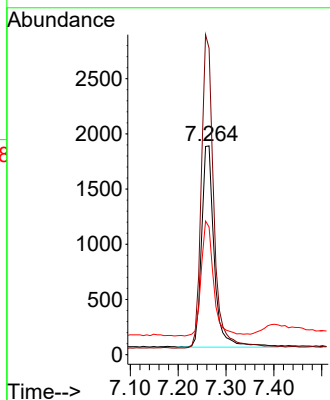


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 613
Delta R.T. -0.008 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

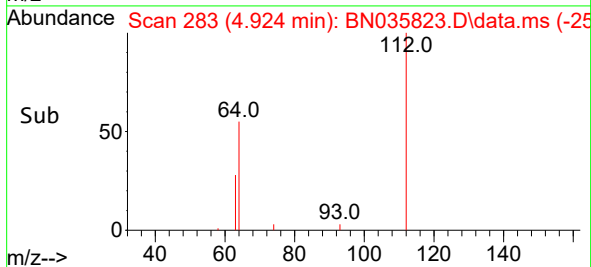
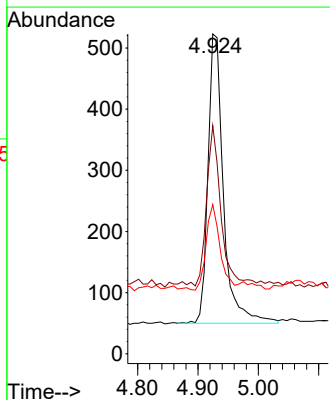
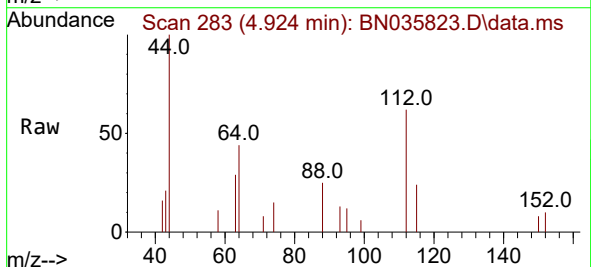


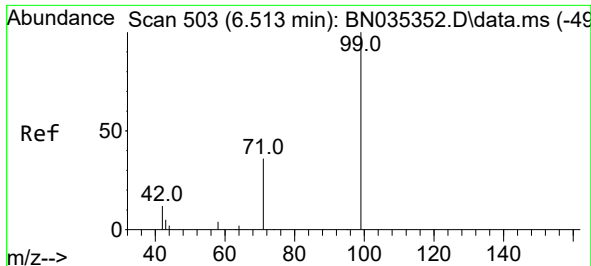
Tgt Ion:152 Resp: 3352
Ion Ratio Lower Upper
152 100
150 146.7 124.0 186.0
115 61.2 49.6 74.4



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:112 Resp: 842
Ion Ratio Lower Upper
112 100
64 52.5 39.8 59.8
63 27.2 21.0 31.6





#5

Phenol-d6

Concen: 0.048 ng

RT: 6.477 min Scan# 498

Delta R.T. -0.014 min

Lab File: BN035823.D

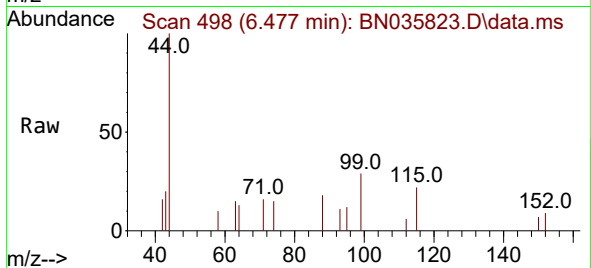
Acq: 24 Dec 2024 16:06

Instrument :

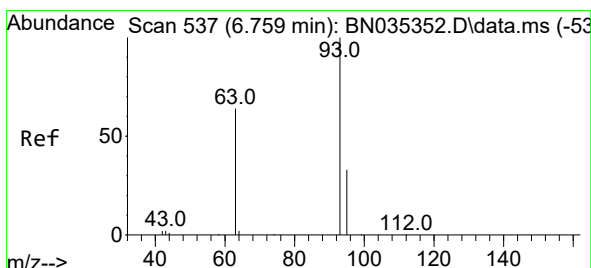
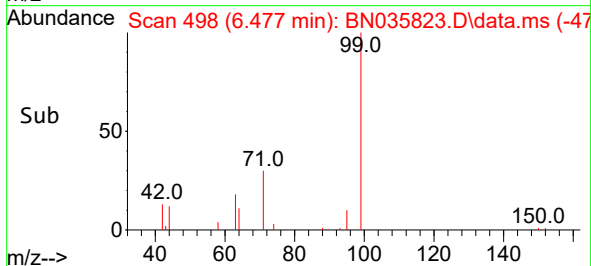
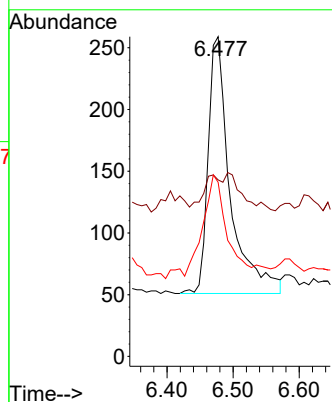
BNA_N

ClientSampleId :

RW10-MW01D-20241218



Tgt Ion:	99	Resp:	482
Ion	Ratio	Lower	Upper
99	100		
42	10.2	11.4	17.2#
71	41.9	29.3	43.9



#6

bis(2-Chloroethyl)ether

Concen: 0.323 ng

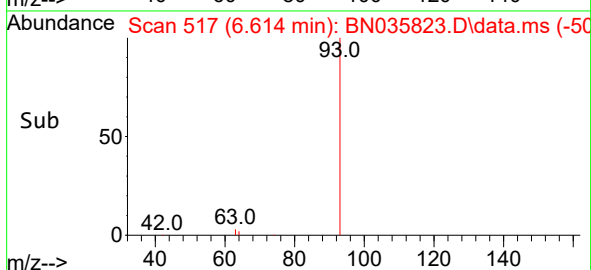
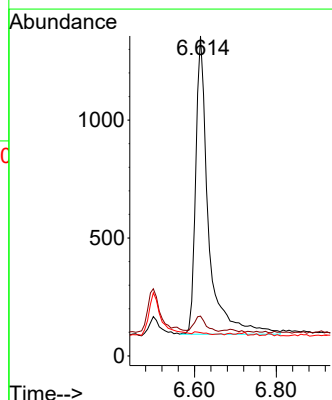
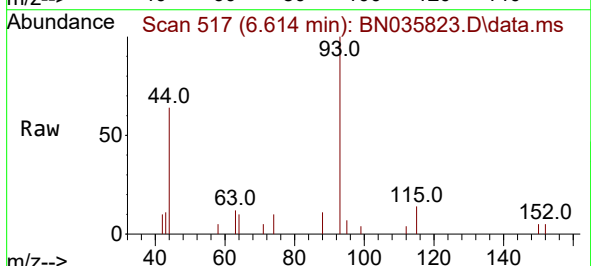
RT: 6.614 min Scan# 517

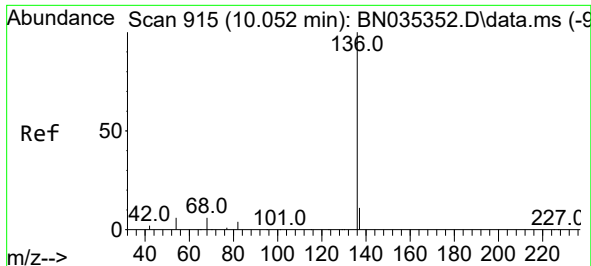
Delta R.T. -0.116 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Tgt Ion:	93	Resp:	2739
Ion	Ratio	Lower	Upper
93	100		
63	4.4	50.4	75.6#
95	0.7	25.7	38.5#

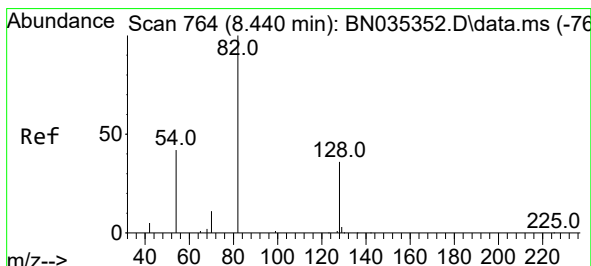
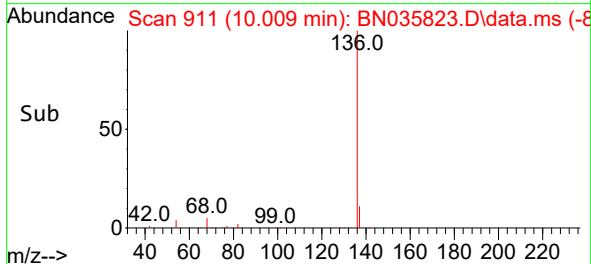
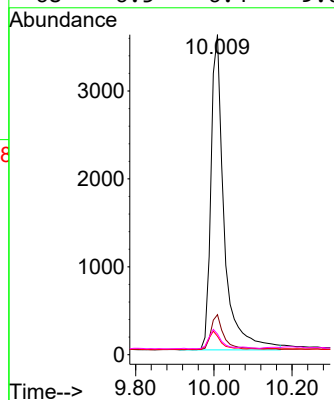
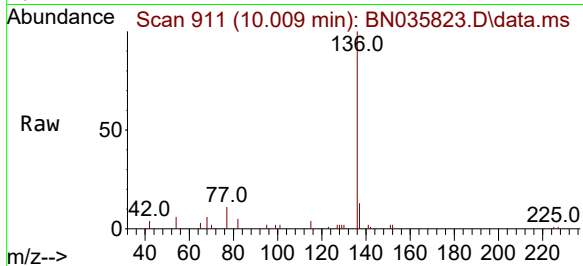




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

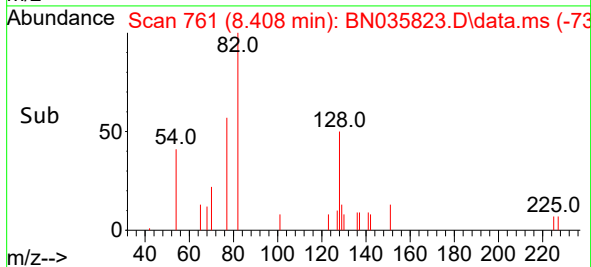
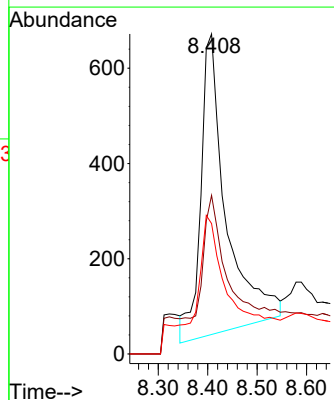
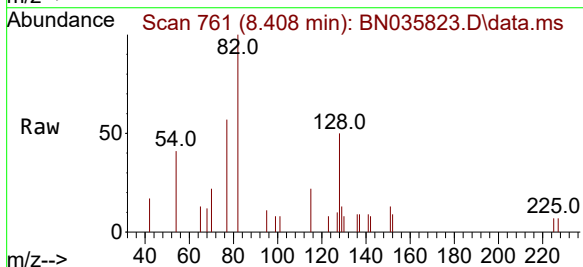
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

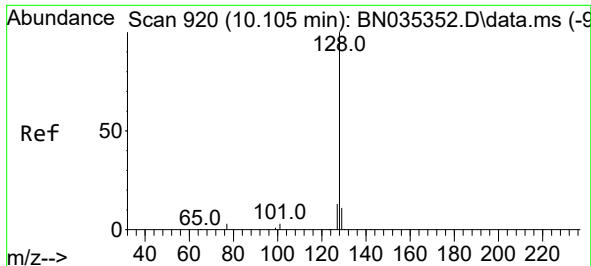
Tgt Ion:	136	Resp:	8445
Ion Ratio	Lower	Upper	
136	100		
137	12.5	10.2	15.2
54	5.7	6.1	9.1#
68	6.5	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.437 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:	82	Resp:	2253
Ion Ratio	Lower	Upper	
82	100		
128	49.6	33.4	50.0
54	40.8	36.7	55.1

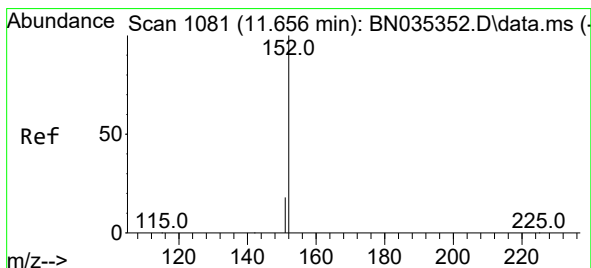
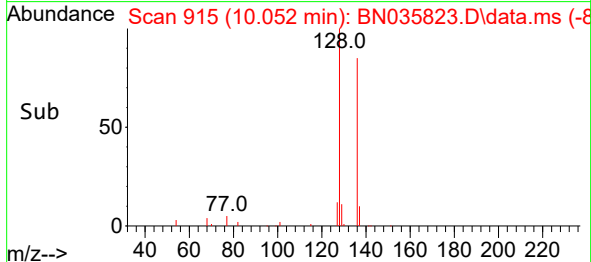
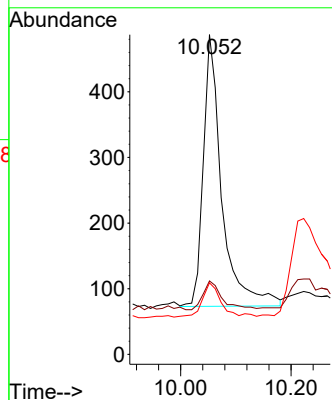
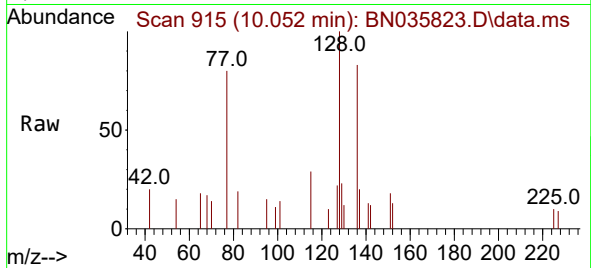




#9
Naphthalene
Concen: 0.043 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

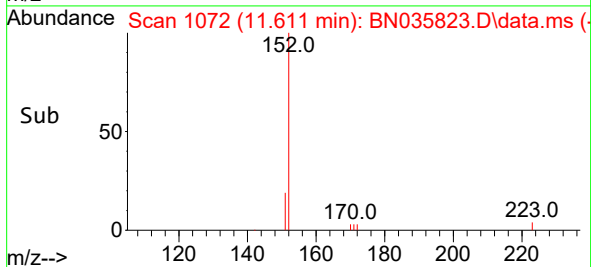
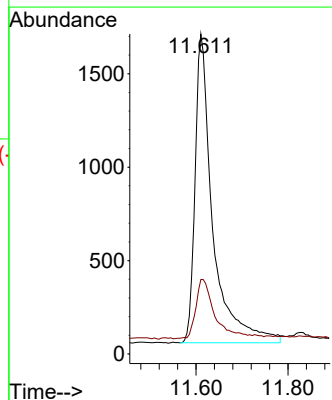
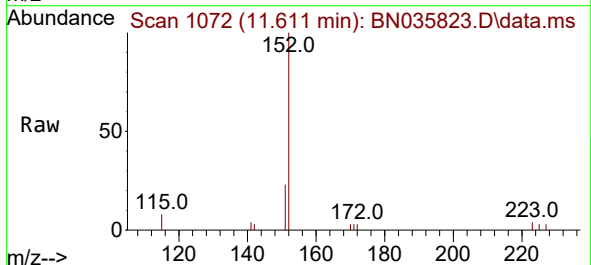
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

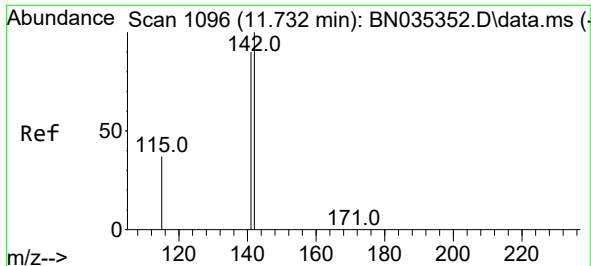
Tgt Ion:128 Resp: 964
Ion Ratio Lower Upper
128 100
129 23.0 9.8 14.6#
127 22.4 11.4 17.2#



#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 4421
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

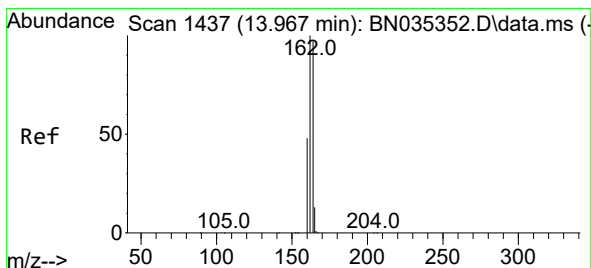
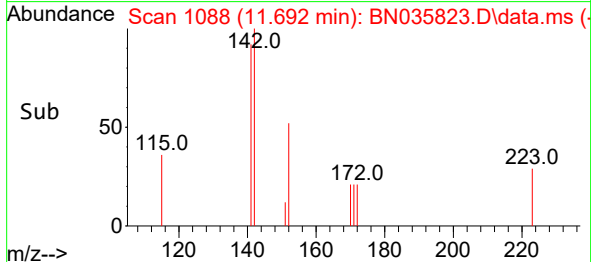
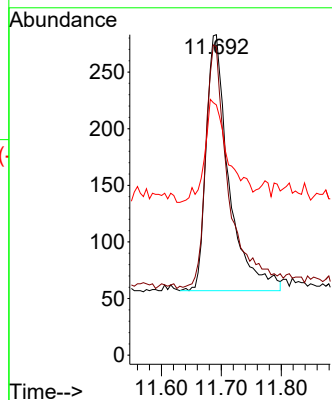
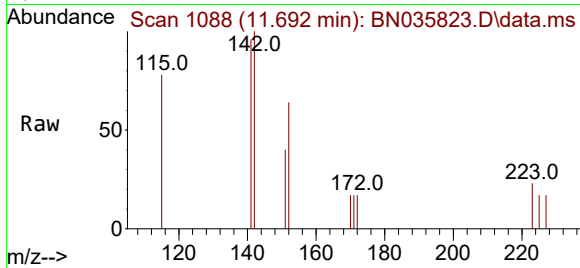




#12
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.692 min Scan# 1096
Delta R.T. -0.005 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

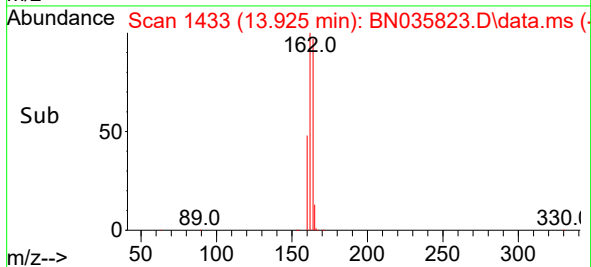
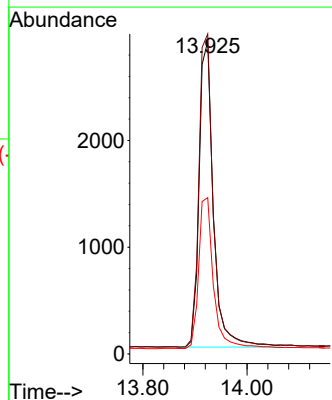
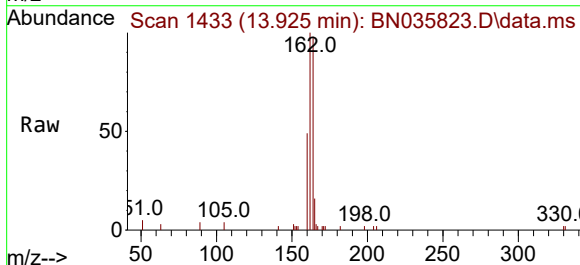
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

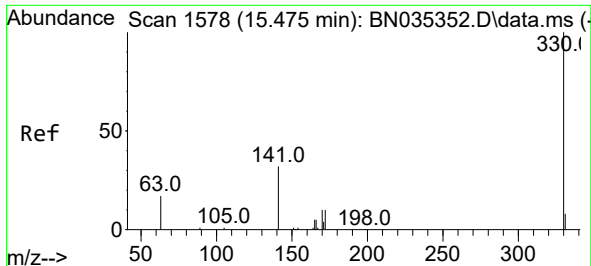
Tgt Ion:142 Resp: 597
Ion Ratio Lower Upper
142 100
141 96.1 72.2 108.4
115 78.1 31.4 47.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:164 Resp: 5463
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 50.0 40.1 60.1

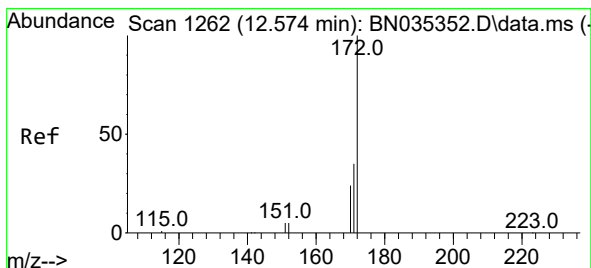
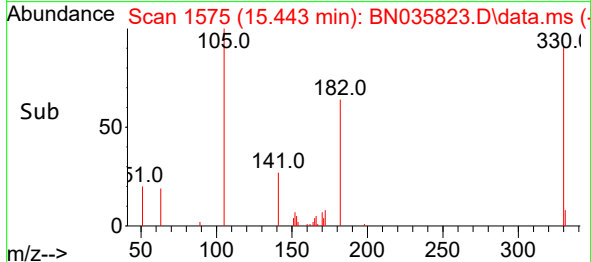
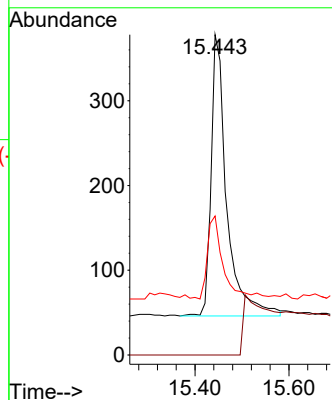
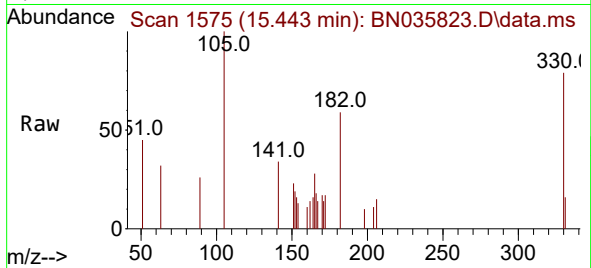




#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

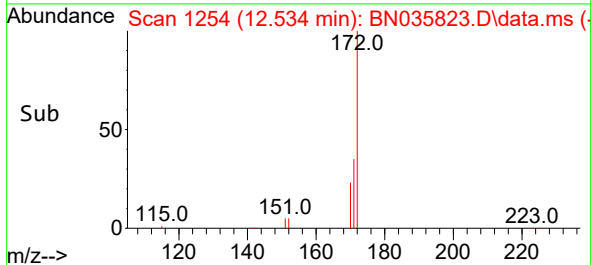
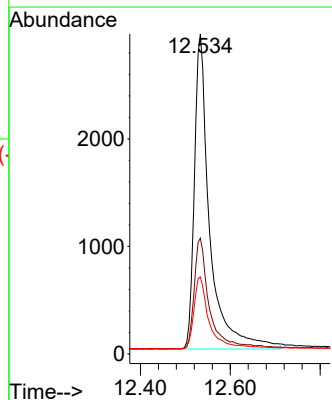
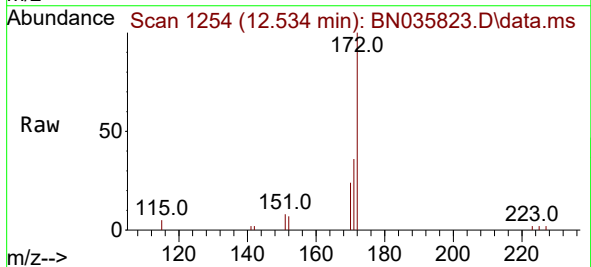
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

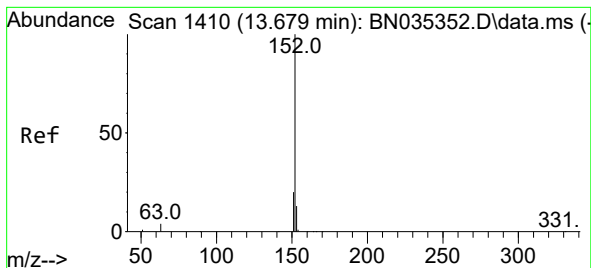
Tgt Ion:330 Resp: 799
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 28.9 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:172 Resp: 6936
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.1 19.8 29.8





#16

Acenaphthylene

Concen: 0.046 ng

RT: 13.636 min Scan# 1410

Delta R.T. -0.011 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

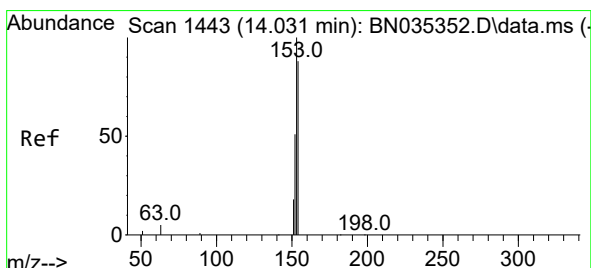
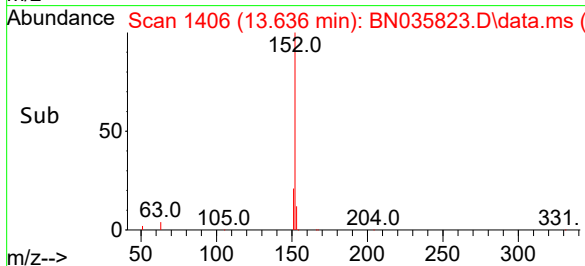
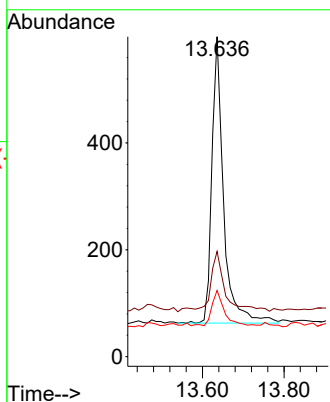
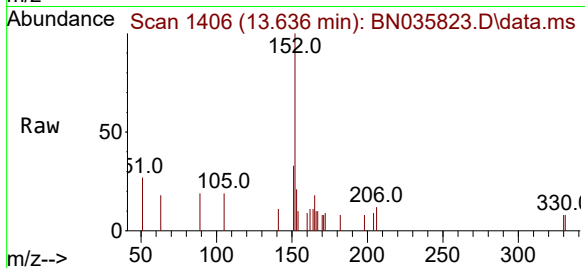
Tgt Ion:152 Resp: 1063

Ion Ratio Lower Upper

152 100

151 24.4 16.2 24.2#

153 14.4 10.4 15.6



#17

Acenaphthene

Concen: 0.045 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

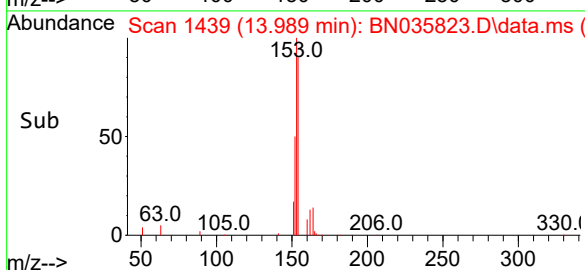
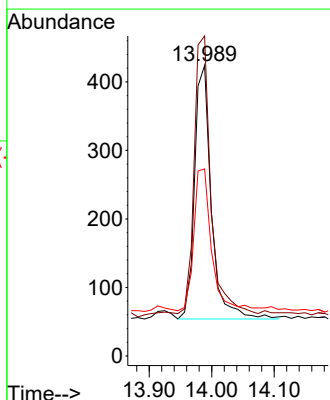
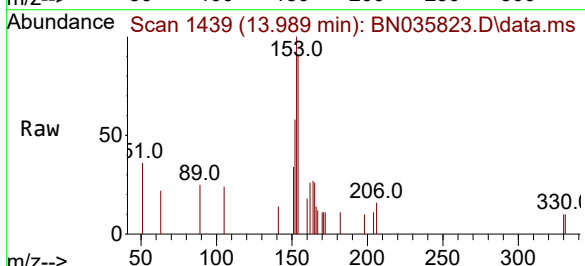
Tgt Ion:154 Resp: 693

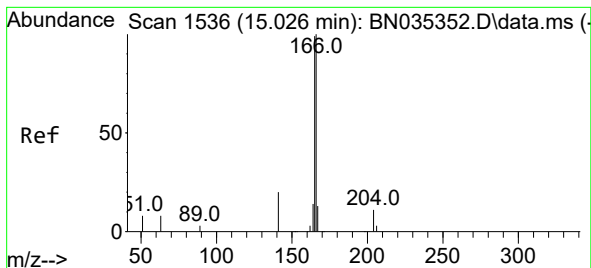
Ion Ratio Lower Upper

154 100

153 115.9 92.6 139.0

152 58.9 49.0 73.6





#18

Fluorene

Concen: 0.044 ng

RT: 14.994 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

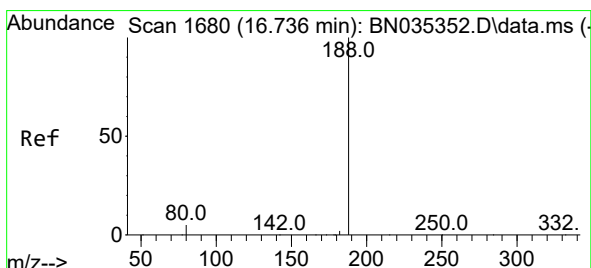
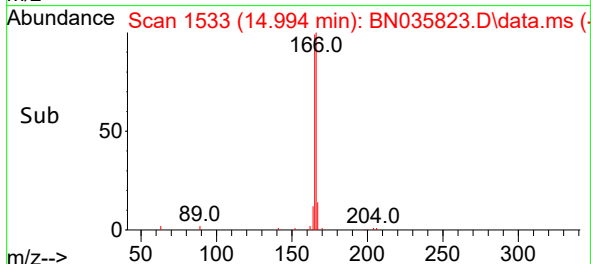
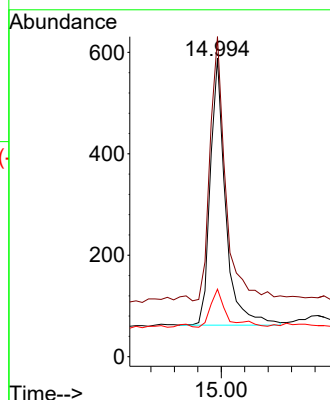
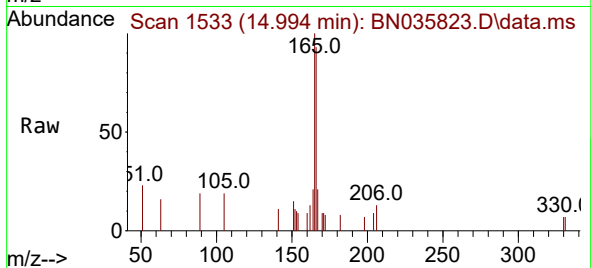
Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

Tgt Ion:	166	Resp:	956
Ion Ratio	Lower	Upper	
166	100		
165	103.7	79.7	119.5
167	14.9	10.8	16.2



#19

Phenanthrene-d10

Concen: 0.400 ng

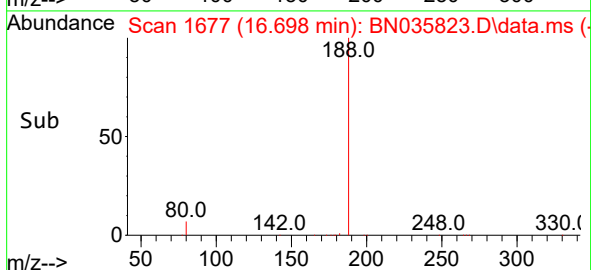
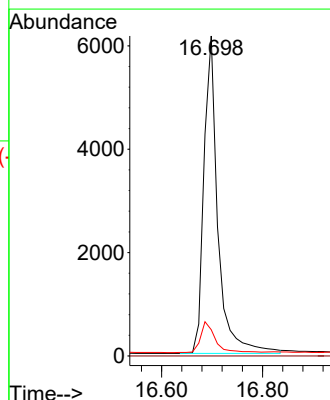
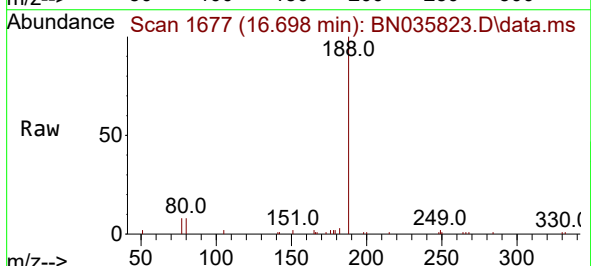
RT: 16.698 min Scan# 1677

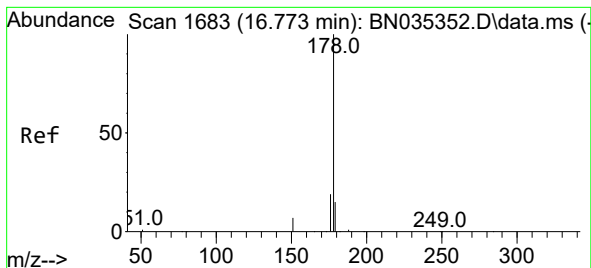
Delta R.T. -0.000 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Tgt Ion:	188	Resp:	11816
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.2	4.6	6.8





#25

Phenanthrene

Concen: 0.067 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.012 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

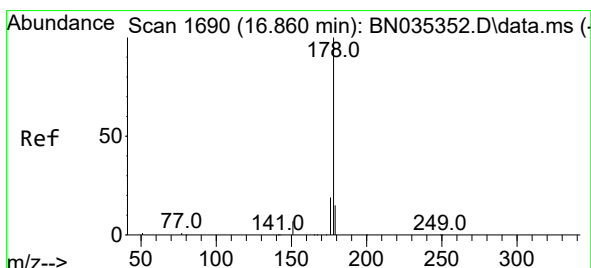
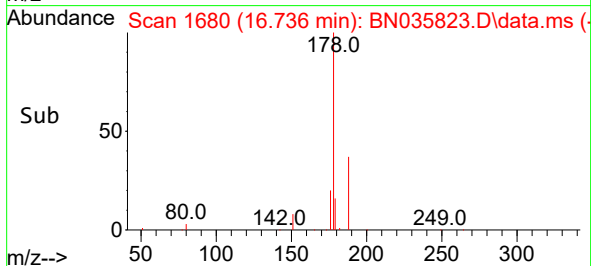
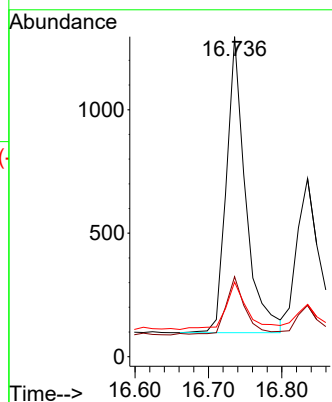
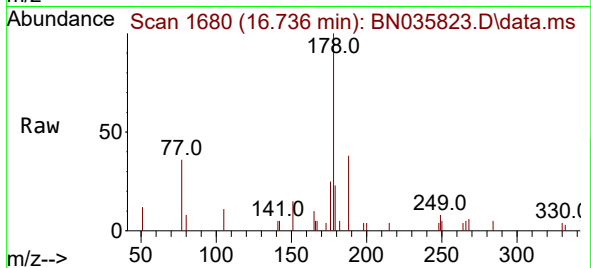
Tgt Ion:178 Resp: 2183

Ion Ratio Lower Upper

178 100

176 19.7 15.4 23.2

179 16.8 12.3 18.5



#26

Anthracene

Concen: 0.047 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

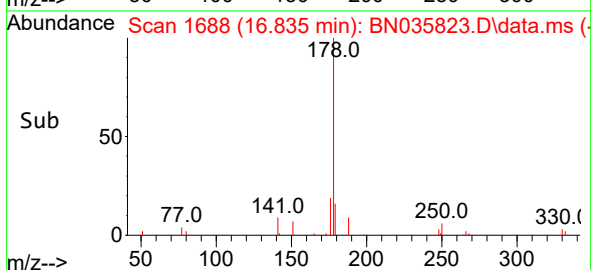
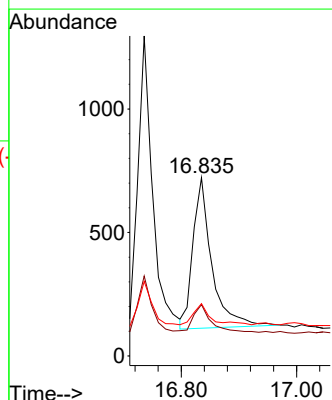
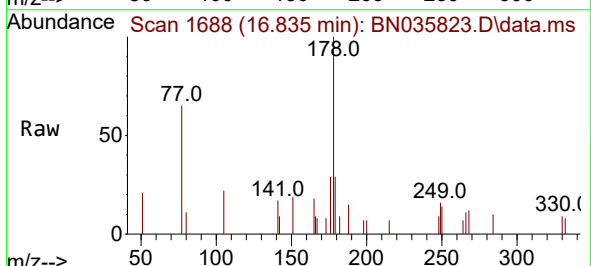
Tgt Ion:178 Resp: 1383

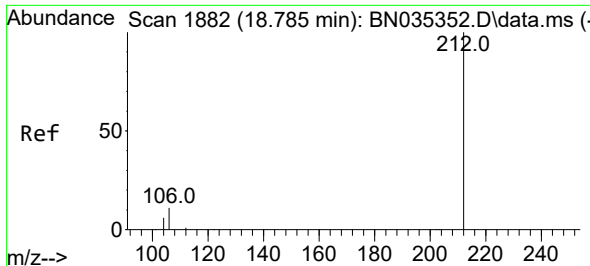
Ion Ratio Lower Upper

178 100

176 18.0 15.0 22.6

179 14.6 12.6 18.8

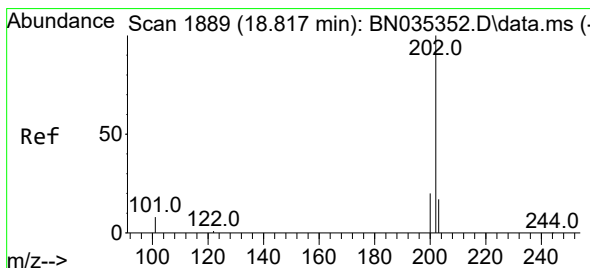
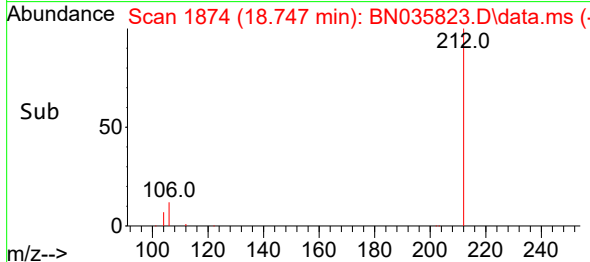
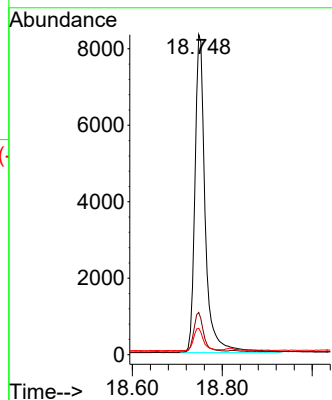
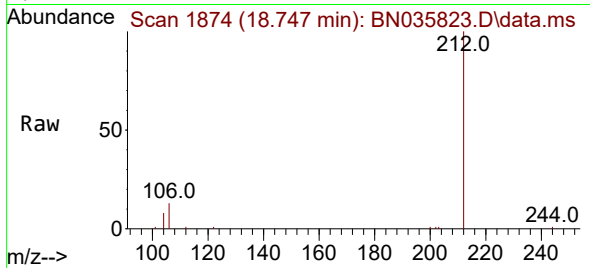




#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

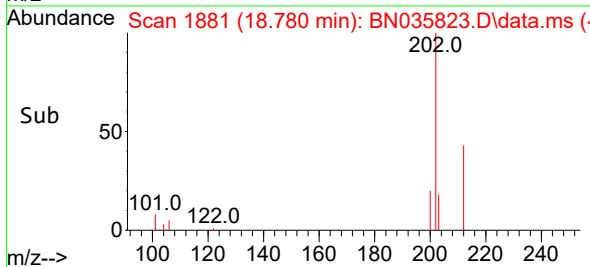
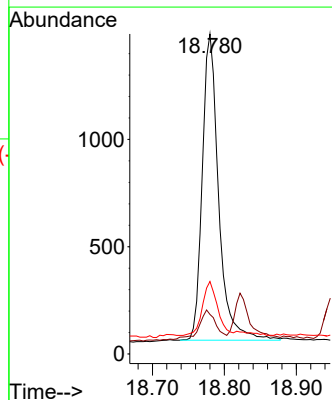
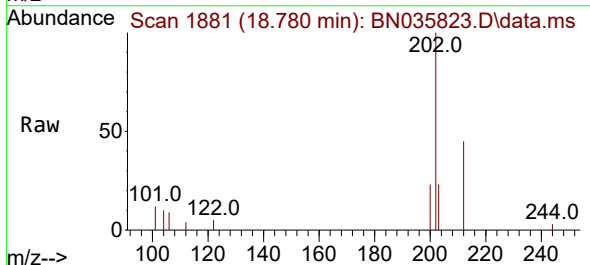
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

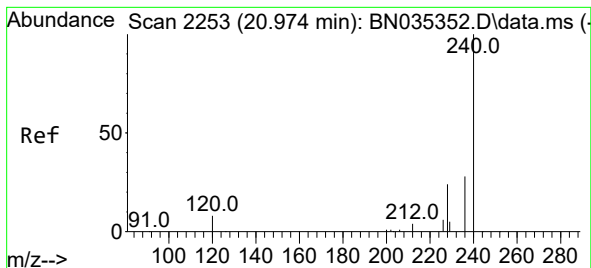
Tgt Ion:212 Resp: 13295
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 6.7 5.3 7.9



#28
Fluoranthene
Concen: 0.051 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:202 Resp: 2251
Ion Ratio Lower Upper
202 100
101 11.8 7.4 11.0#
203 16.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

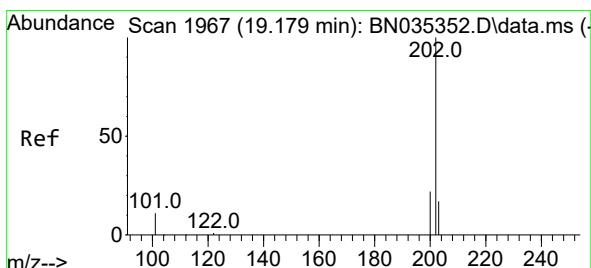
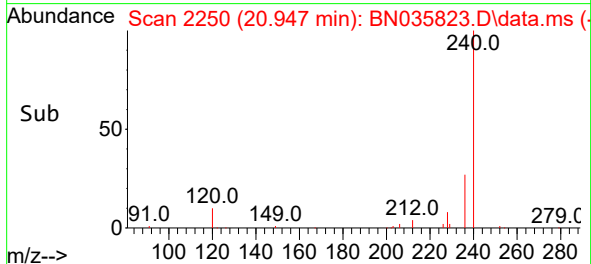
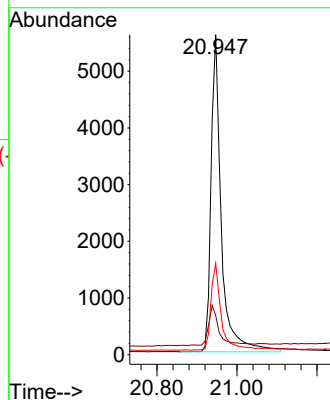
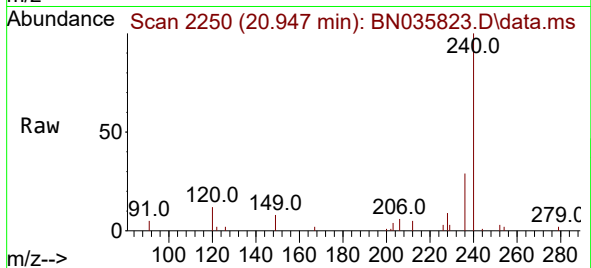
Tgt Ion:240 Resp: 9968

Ion Ratio Lower Upper

240 100

120 12.2 7.9 11.9#

236 28.5 22.9 34.3



#30

Pyrene

Concen: 0.068 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

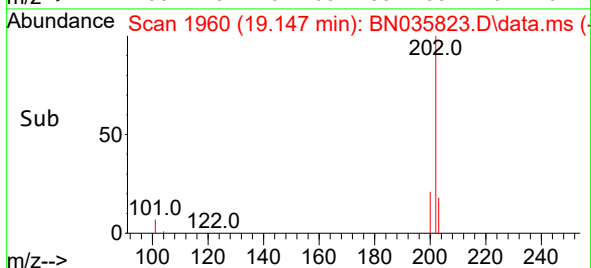
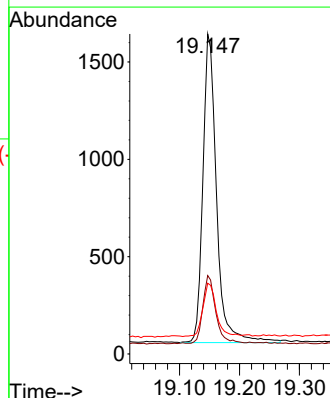
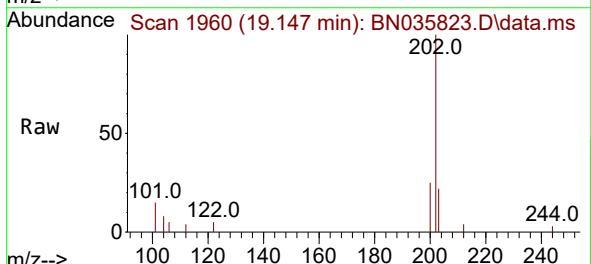
Tgt Ion:202 Resp: 2504

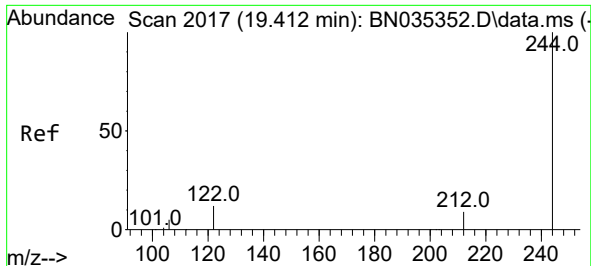
Ion Ratio Lower Upper

202 100

200 20.4 17.0 25.4

203 17.0 14.3 21.5

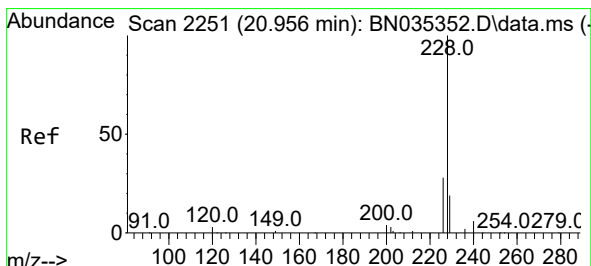
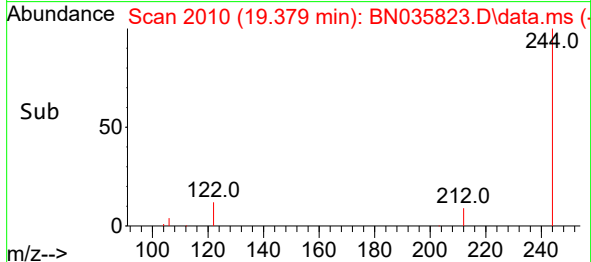
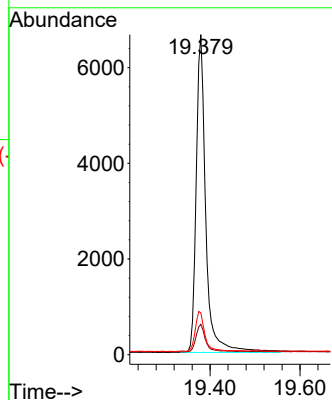
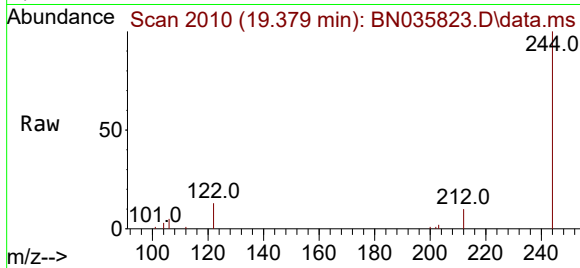




#31
 Terphenyl-d14
 Concen: 0.502 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035823.D
 Acq: 24 Dec 2024 16:06

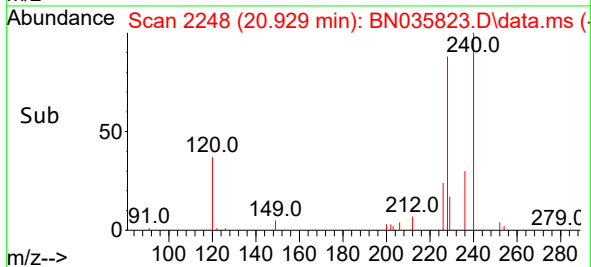
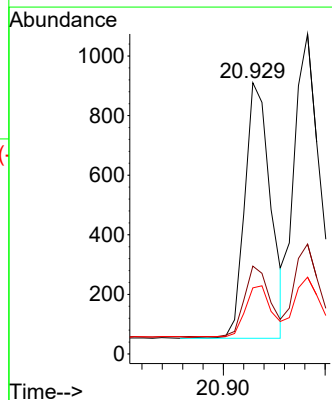
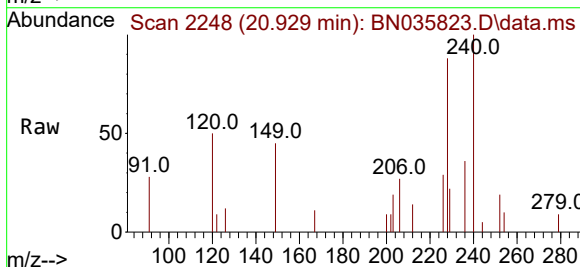
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01D-20241218

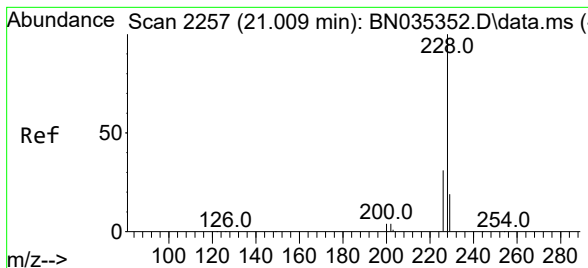
Tgt Ion:244 Resp: 9869
 Ion Ratio Lower Upper
 244 100
 212 9.5 8.1 12.1
 122 13.1 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.043 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035823.D
 Acq: 24 Dec 2024 16:06

Tgt Ion:228 Resp: 1508
 Ion Ratio Lower Upper
 228 100
 226 32.4 22.5 33.7
 229 24.4 15.8 23.8#





#33

Chrysene

Concen: 0.056 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

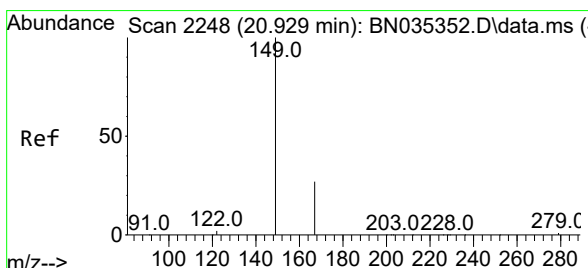
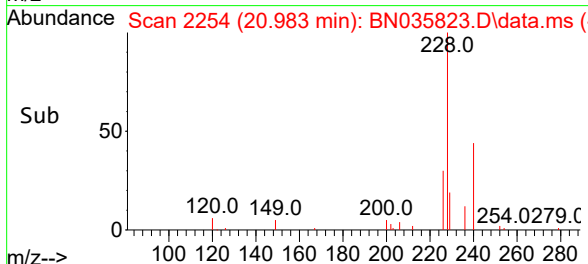
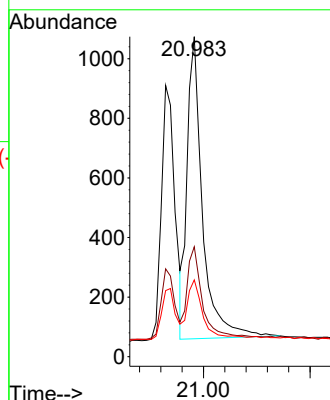
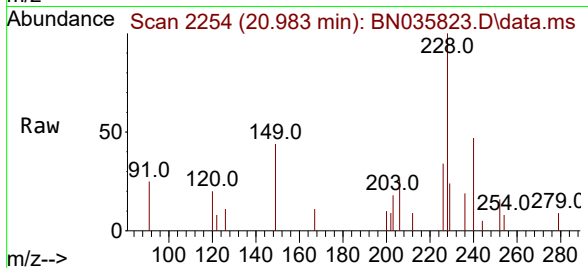
Tgt Ion:228 Resp: 2026

Ion Ratio Lower Upper

228 100

226 34.4 24.6 37.0

229 24.0 15.9 23.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.077 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

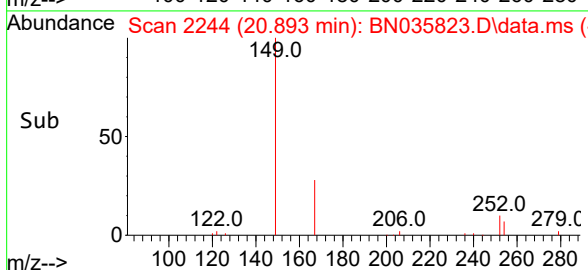
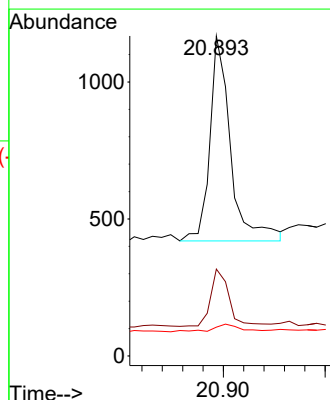
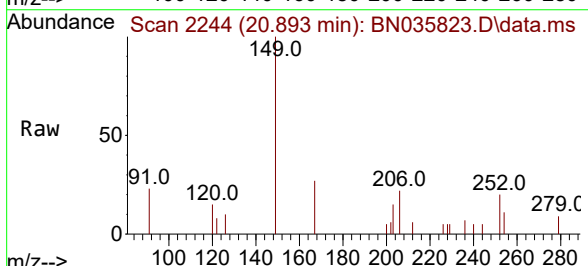
Tgt Ion:149 Resp: 1059

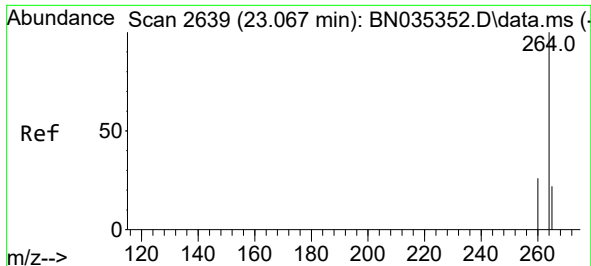
Ion Ratio Lower Upper

149 100

167 24.9 22.2 33.4

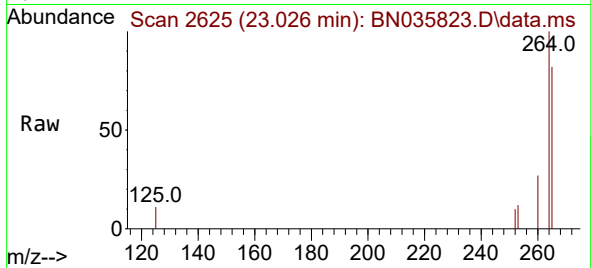
279 5.1 2.7 4.1#



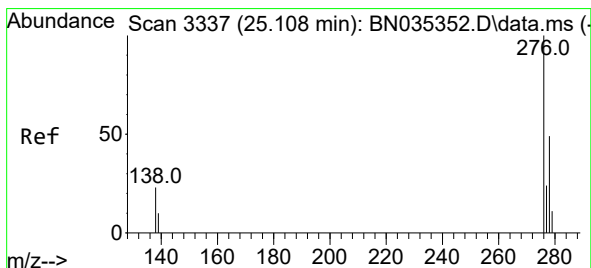
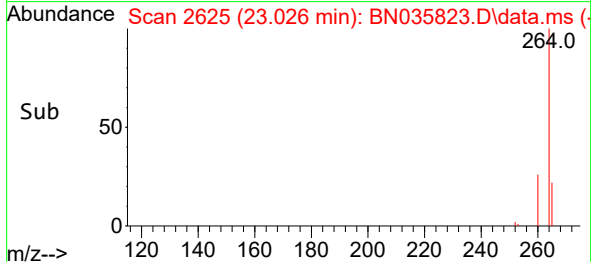
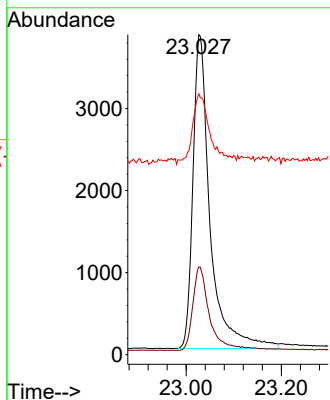


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.026 min Scan# 2
 Delta R.T. -0.015 min
 Lab File: BN035823.D
 Acq: 24 Dec 2024 16:06

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01D-20241218

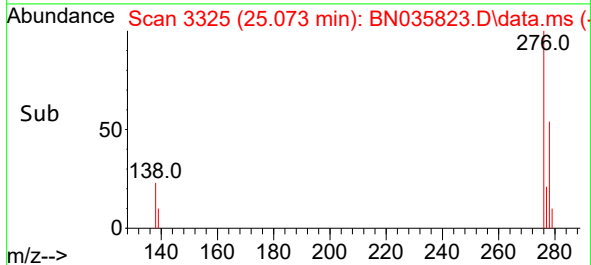
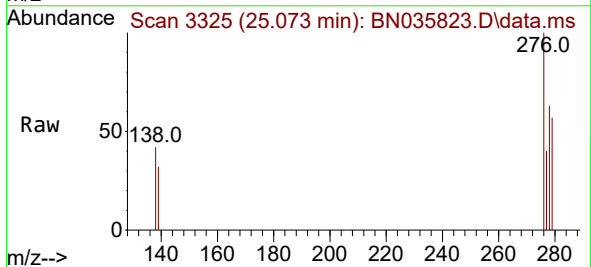
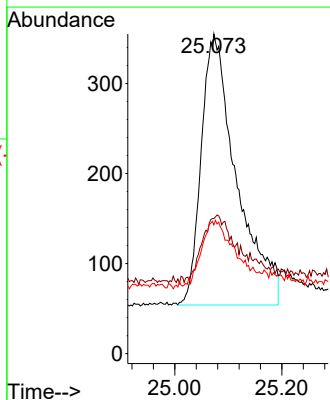


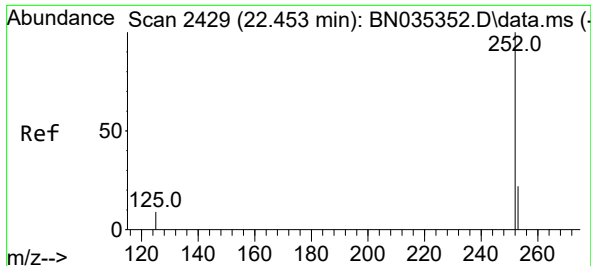
Tgt Ion:264 Resp: 9568
 Ion Ratio Lower Upper
 264 100
 260 27.4 21.4 32.2
 265 81.5 40.2 60.4#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.037 ng
 RT: 25.073 min Scan# 3325
 Delta R.T. 0.006 min
 Lab File: BN035823.D
 Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 1384
 Ion Ratio Lower Upper
 276 100
 138 22.6 19.4 29.0
 277 8.7 19.8 29.6#





#37

Benzo(b)fluoranthene

Concen: 0.050 ng

RT: 22.424 min Scan# 2419

Delta R.T. -0.006 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218

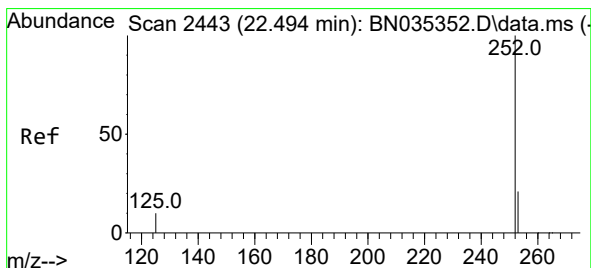
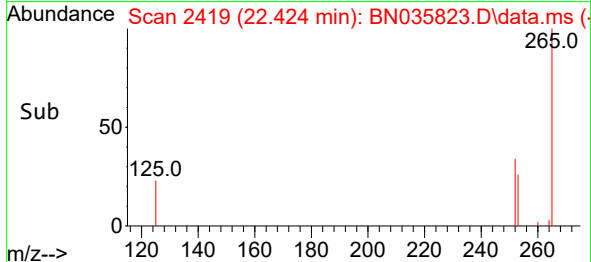
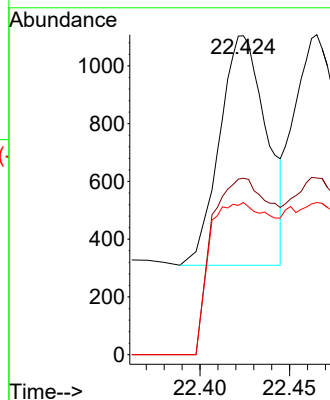
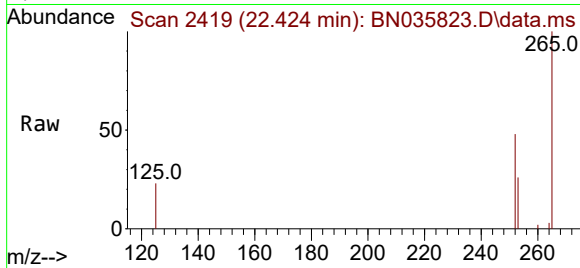
Tgt Ion:252 Resp: 1754

Ion Ratio Lower Upper

252 100

253 55.3 19.6 29.4#

125 47.7 9.6 14.4#



#38

Benzo(k)fluoranthene

Concen: 0.045 ng

RT: 22.465 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BN035823.D

Acq: 24 Dec 2024 16:06

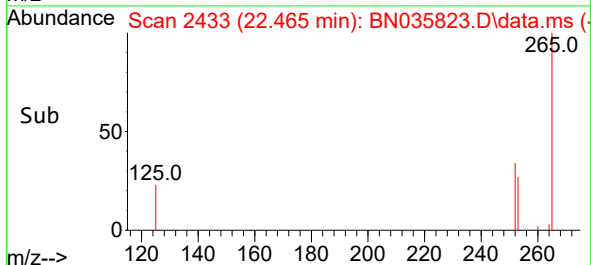
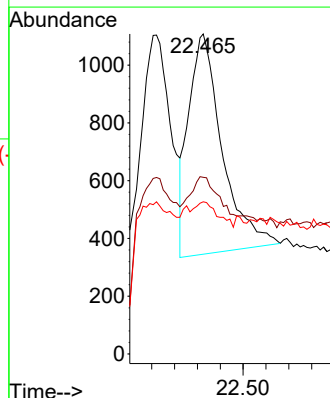
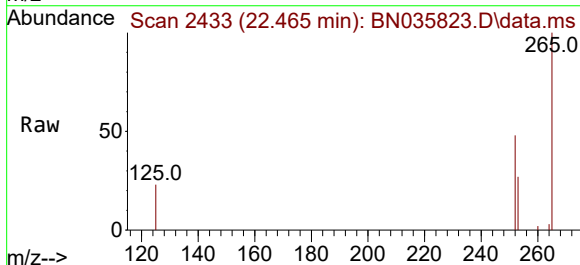
Tgt Ion:252 Resp: 1557

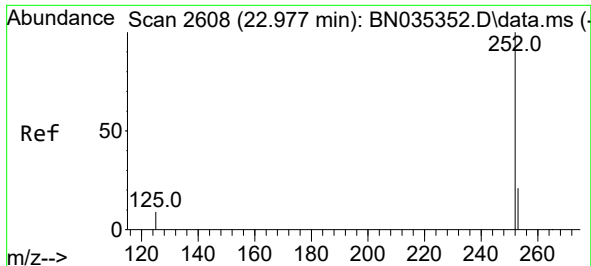
Ion Ratio Lower Upper

252 100

253 55.2 19.5 29.3#

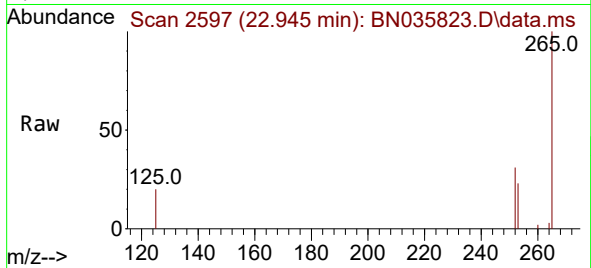
125 47.6 10.2 15.4#



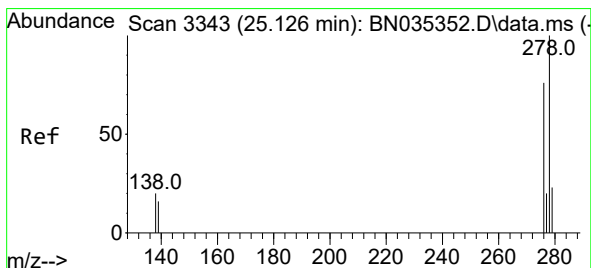
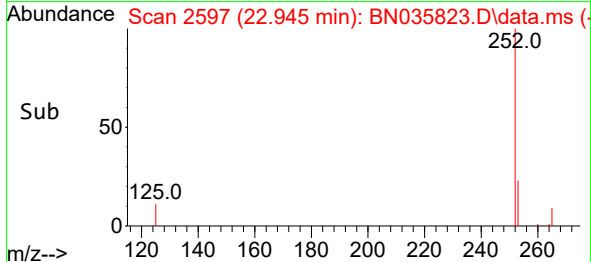
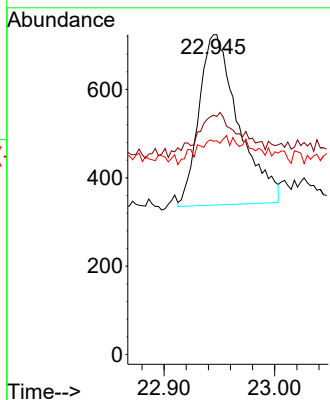


#39
Benzo(a)pyrene
Concen: 0.033 ng
RT: 22.945 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

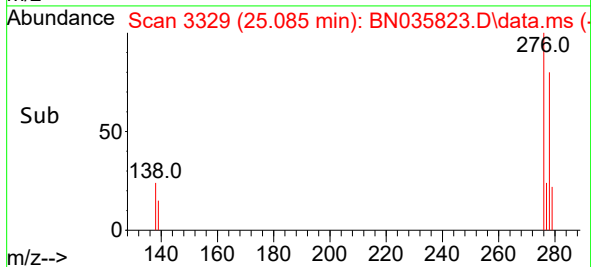
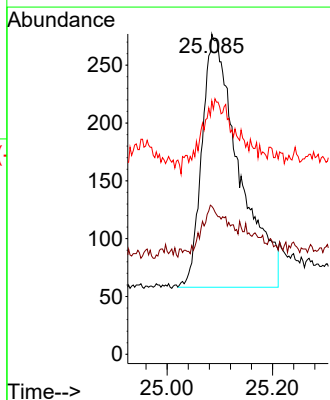
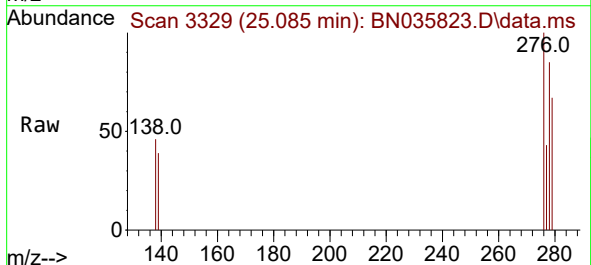


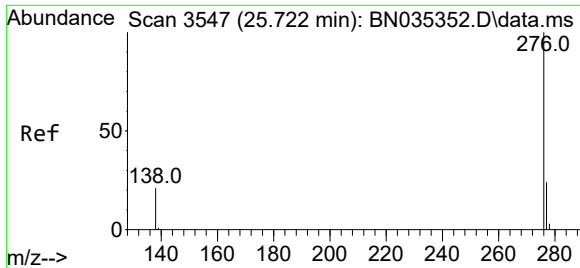
Tgt Ion:252 Resp: 959
Ion Ratio Lower Upper
252 100
253 74.9 20.2 30.4#
125 66.7 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.036 ng
RT: 25.085 min Scan# 3329
Delta R.T. 0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:278 Resp: 1067
Ion Ratio Lower Upper
278 100
139 46.2 14.2 21.4#
279 79.1 20.5 30.7#





#41

Benzo(g,h,i)perylene

Concen: 0.037 ng

RT: 25.675 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035823.D

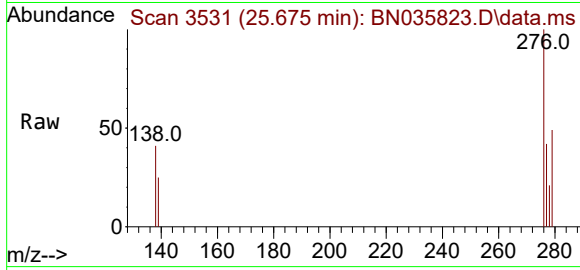
Acq: 24 Dec 2024 16:06

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20241218



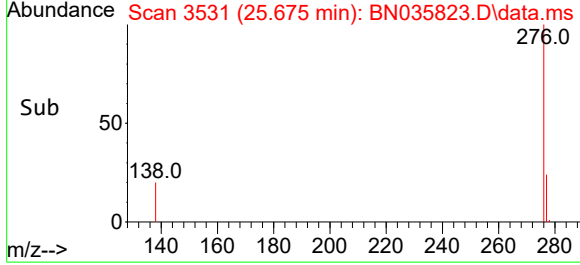
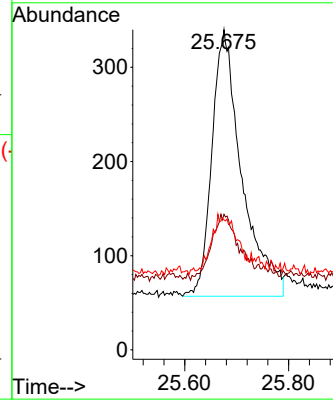
Tgt Ion:276 Resp: 1130

Ion Ratio Lower Upper

276 100

277 42.4 19.9 29.9#

138 40.6 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035824.D
 Acq On : 24 Dec 2024 16:42
 Operator : RC/JU
 Sample : P5376-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01S-20241218

Quant Time: Dec 24 23:19:48 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)

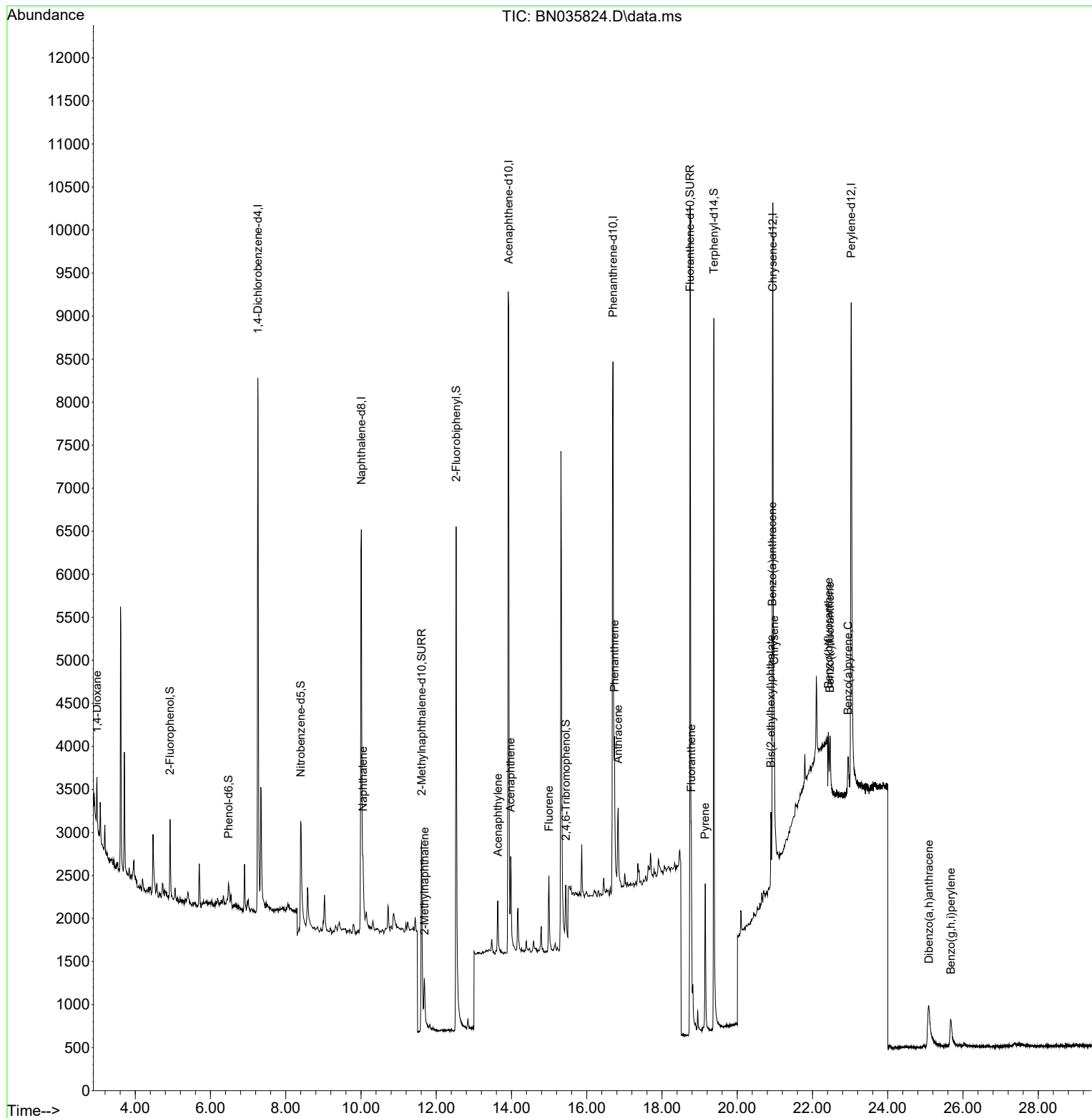
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3542	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8575	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5533	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11307	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9270	0.400	ng	0.00
35) Perylene-d12	23.029	264	9119	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	827	0.093	ng	-0.01
5) Phenol-d6	6.477	99	397	0.037	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2265	0.432	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4576	0.341	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	766	0.195	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7209	0.345	ng	-0.02
27) Fluoranthene-d10	18.747	212	12883	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	9501	0.520	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	493	0.146	ng	# 73
9) Naphthalene	10.052	128	803	0.036	ng	# 72
12) 2-Methylnaphthalene	11.687	142	502	0.031	ng	# 79
16) Acenaphthylene	13.636	152	877	0.038	ng	96
17) Acenaphthene	13.978	154	539	0.035	ng	98
18) Fluorene	14.994	166	778	0.035	ng	96
25) Phenanthrene	16.736	178	1755	0.057	ng	100
26) Anthracene	16.835	178	1113	0.040	ng	97
28) Fluoranthene	18.780	202	1804	0.043	ng	# 97
30) Pyrene	19.147	202	1807	0.053	ng	99
32) Benzo(a)anthracene	20.929	228	1100	0.034	ng	# 87
33) Chrysene	20.983	228	1514	0.045	ng	# 91
34) Bis(2-ethylhexyl)phtha...	20.893	149	988	0.077	ng	# 97
37) Benzo(b)fluoranthene	22.424	252	1409	0.042	ng	# 22
38) Benzo(k)fluoranthene	22.465	252	1028	0.031	ng	# 18
39) Benzo(a)pyrene	22.945	252	820	0.030	ng	# 1
40) Dibenzo(a,h)anthracene	25.096	278	685	0.024	ng	# 1
41) Benzo(g,h,i)perylene	25.675	276	816	0.028	ng	# 50

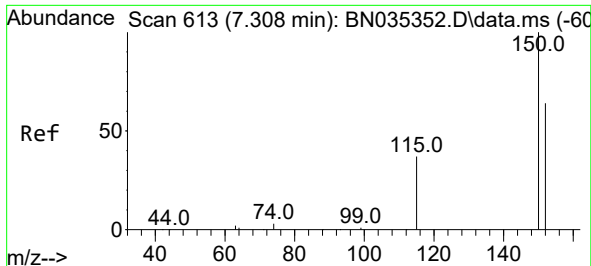
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

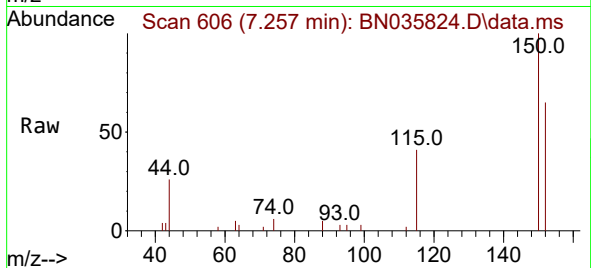
Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



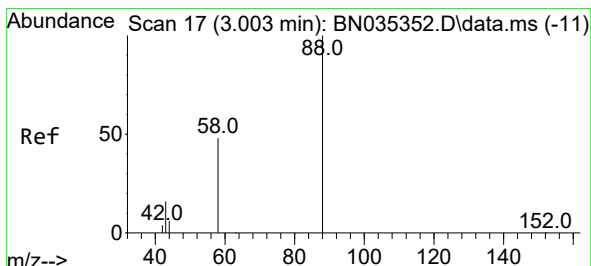
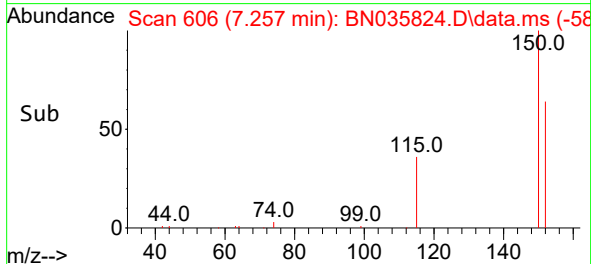
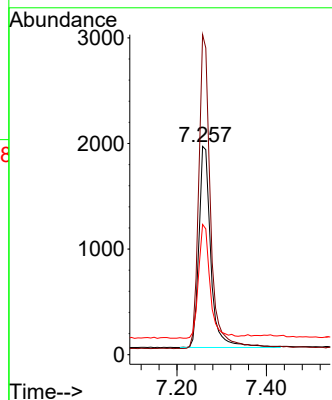


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035824.D
 Acq: 24 Dec 2024 16:42

Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01S-20241218

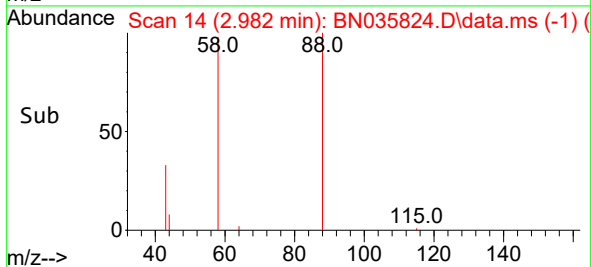
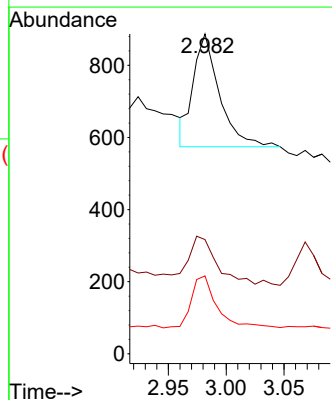
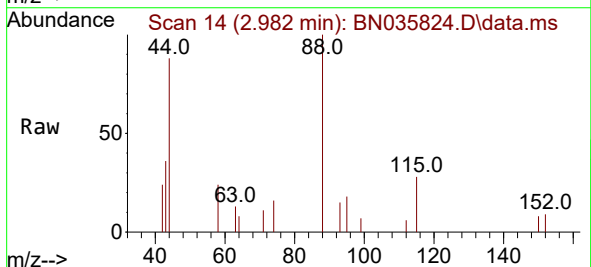


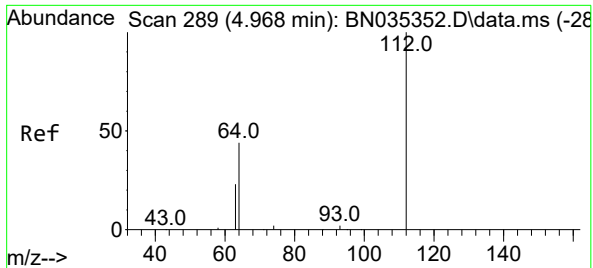
Tgt Ion: 152 Resp: 3542
 Ion Ratio Lower Upper
 152 100
 150 153.6 124.0 186.0
 115 62.5 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.146 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035824.D
 Acq: 24 Dec 2024 16:42

Tgt Ion: 88 Resp: 493
 Ion Ratio Lower Upper
 88 100
 43 49.5 17.2 25.8#
 58 44.6 44.5 66.7

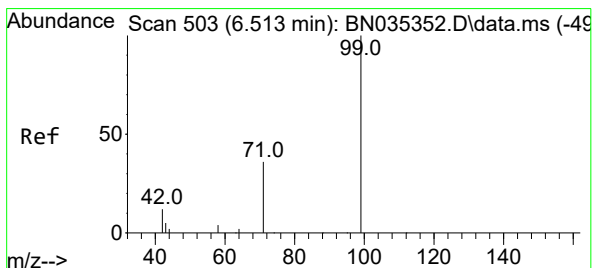
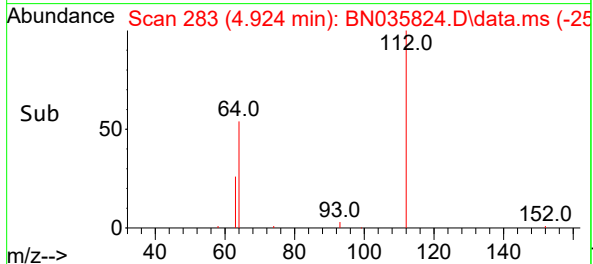
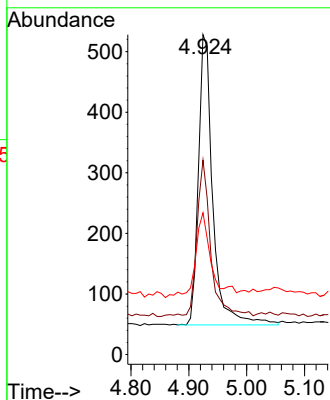
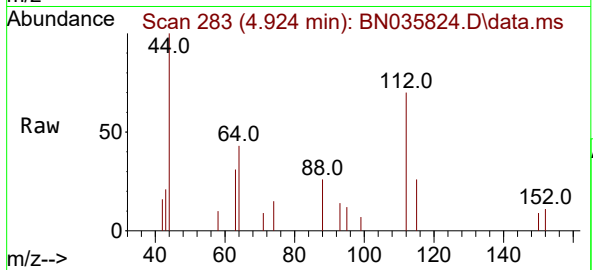




#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

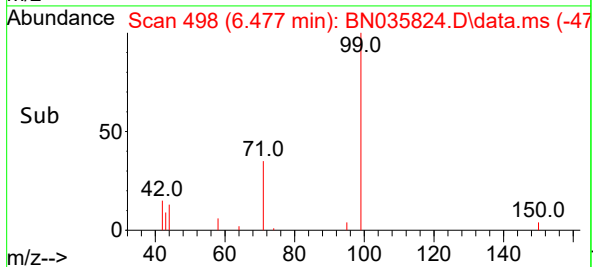
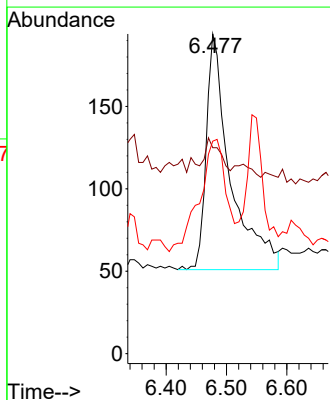
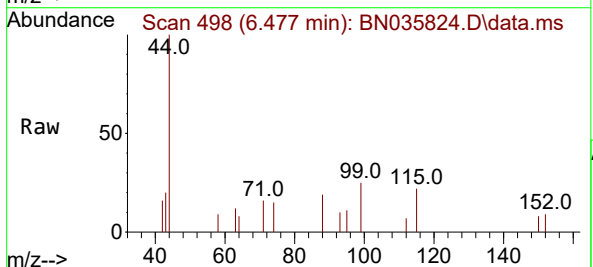
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

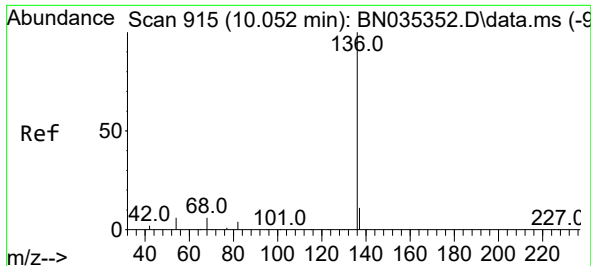
Tgt Ion:	112	Resp:	827
Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	29.9	21.0	31.6



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:	99	Resp:	397
Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	52.1	29.3	43.9

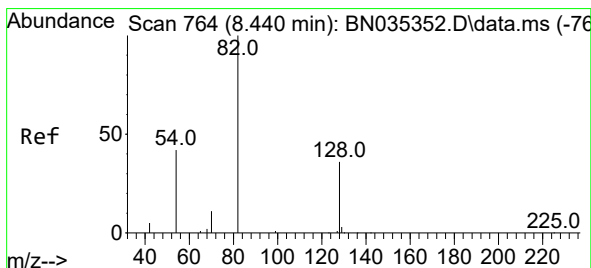
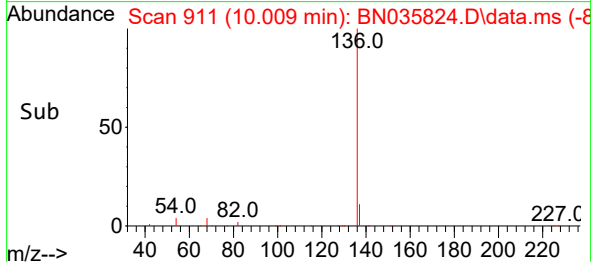
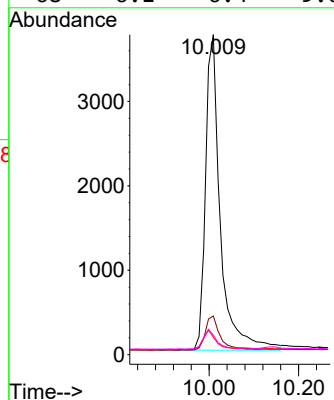
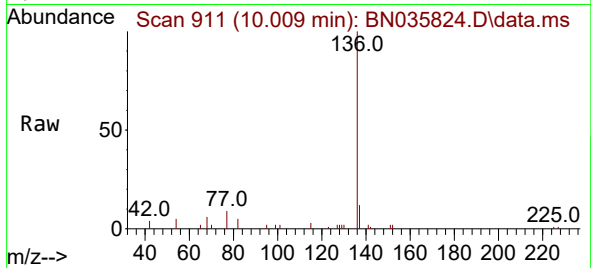




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

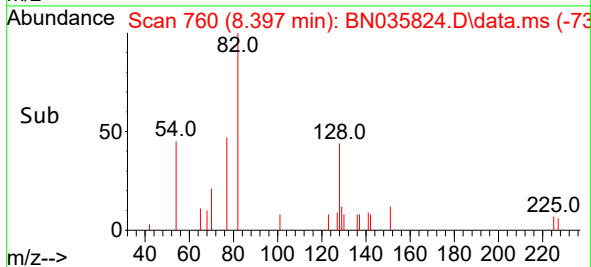
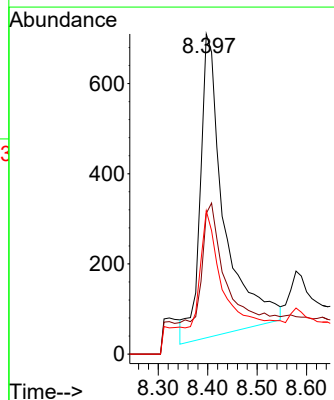
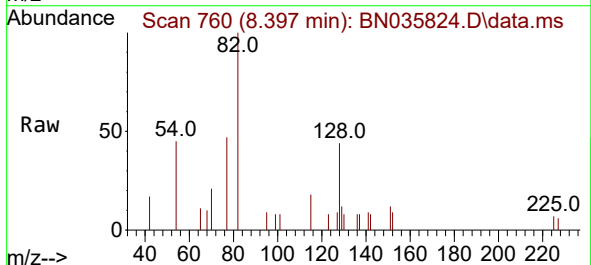
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

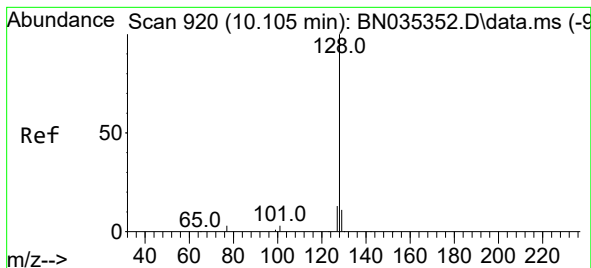
Tgt Ion:	136	Resp:	8575
Ion Ratio	Lower	Upper	
136	100		
137	12.1	10.2	15.2
54	5.5	6.1	9.1#
68	6.1	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.432 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:	82	Resp:	2265
Ion Ratio	Lower	Upper	
82	100		
128	43.9	33.4	50.0
54	44.8	36.7	55.1





#9

Naphthalene

Concen: 0.036 ng

RT: 10.052 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035824.D

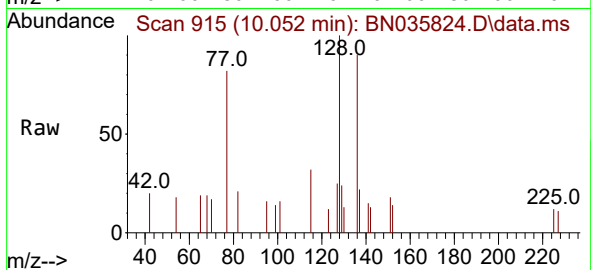
Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218



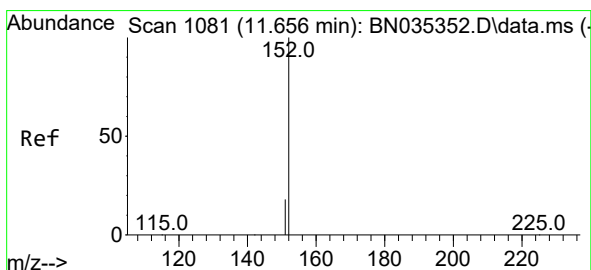
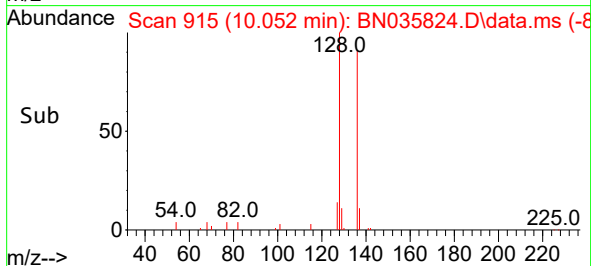
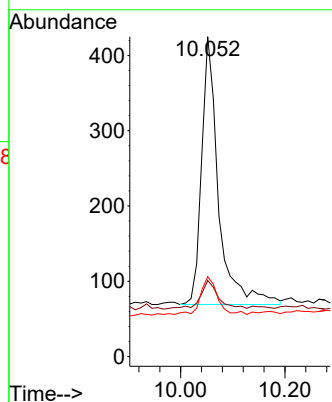
Tgt Ion:128 Resp: 803

Ion Ratio Lower Upper

128 100

129 23.8 9.8 14.6#

127 24.9 11.4 17.2#



#11

2-Methylnaphthalene-d10

Concen: 0.341 ng

RT: 11.611 min Scan# 1072

Delta R.T. -0.010 min

Lab File: BN035824.D

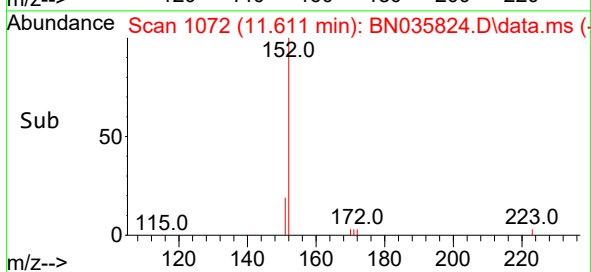
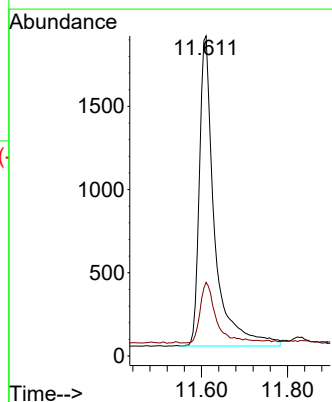
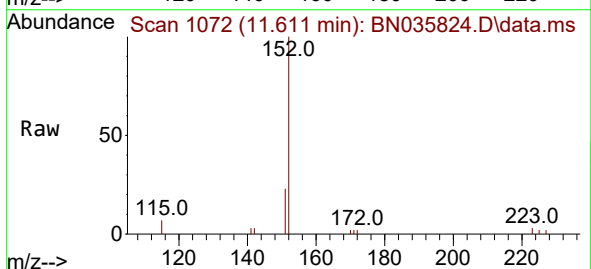
Acq: 24 Dec 2024 16:42

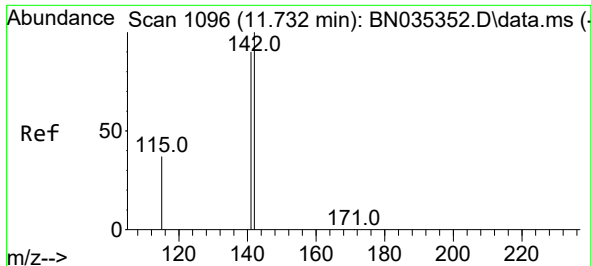
Tgt Ion:152 Resp: 4576

Ion Ratio Lower Upper

152 100

151 19.6 16.6 25.0

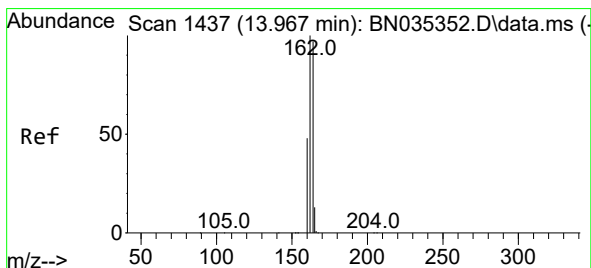
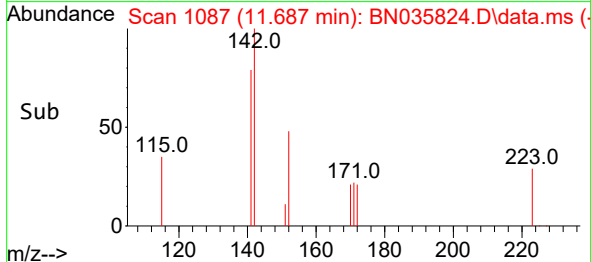
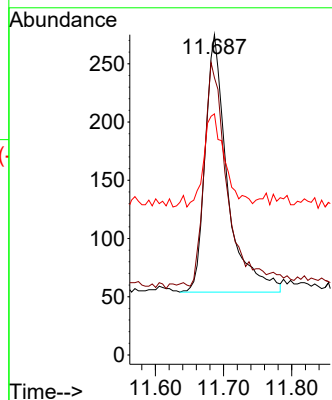
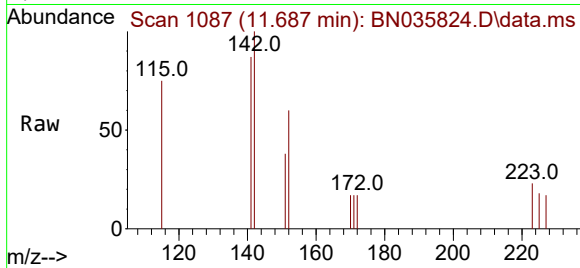




#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 11.687 min Scan# 1096
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

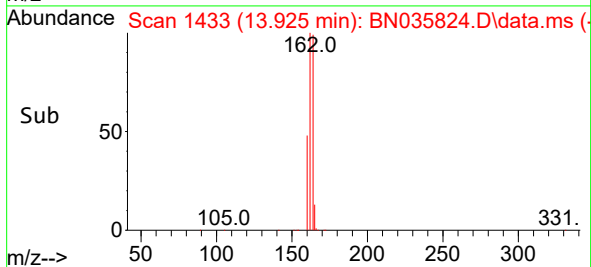
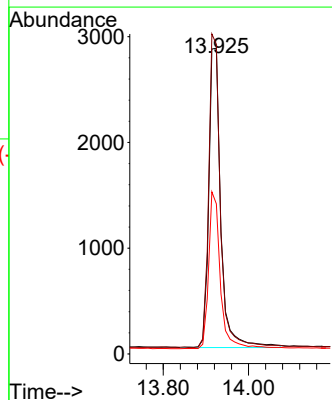
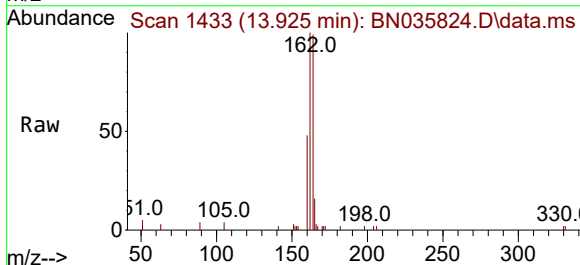
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

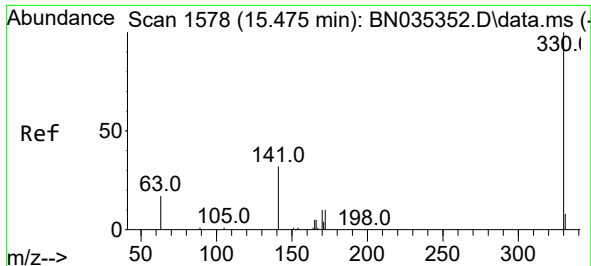
Tgt Ion:142 Resp: 502
Ion Ratio Lower Upper
142 100
141 86.5 72.2 108.4
115 75.3 31.4 47.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:164 Resp: 5533
Ion Ratio Lower Upper
164 100
162 101.2 82.2 123.2
160 49.1 40.1 60.1

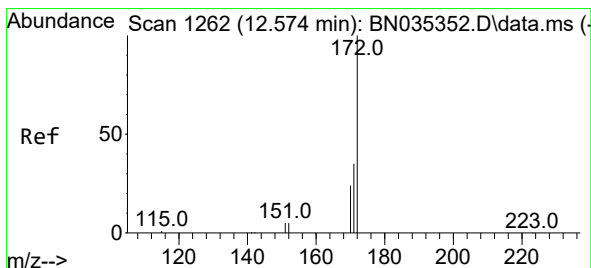
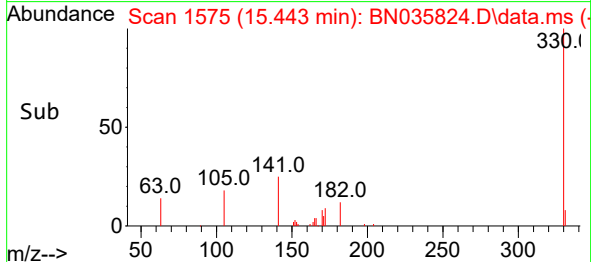
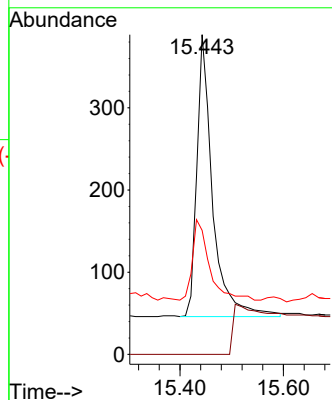
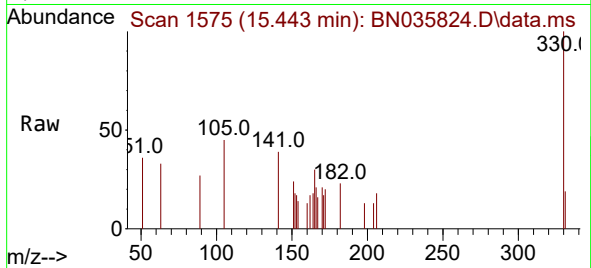




#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

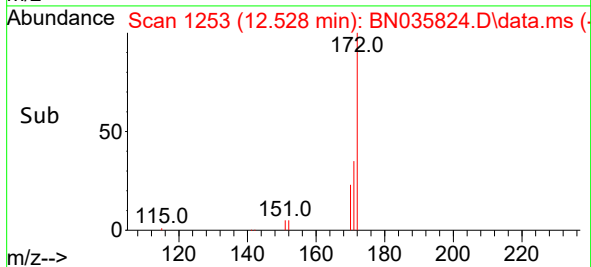
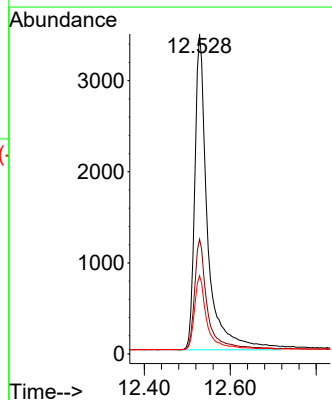
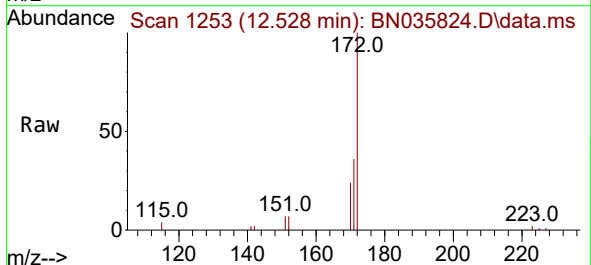
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

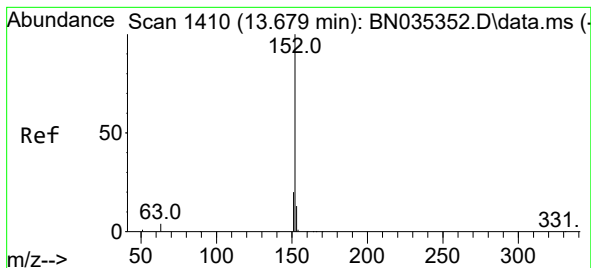
Tgt Ion:330 Resp: 766
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.8 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:172 Resp: 7209
Ion Ratio Lower Upper
172 100
171 35.8 29.0 43.4
170 24.5 19.8 29.8





#16

Acenaphthylene

Concen: 0.038 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218

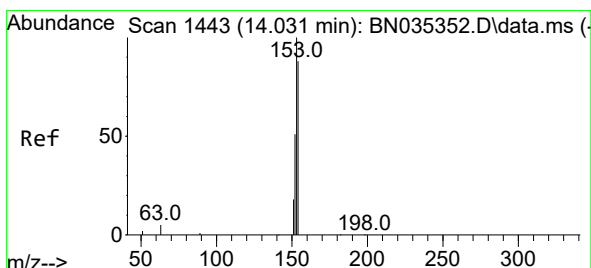
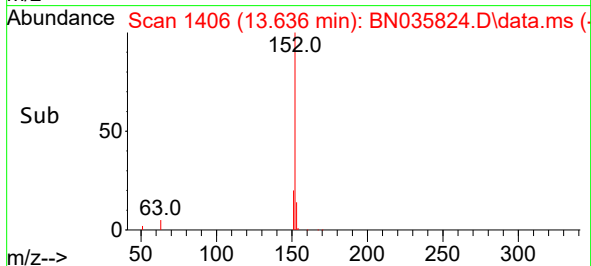
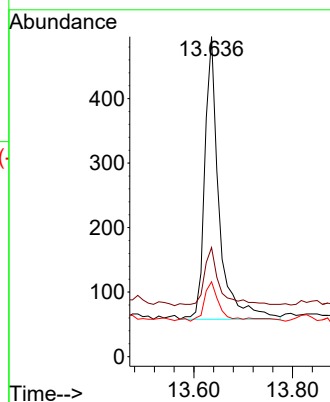
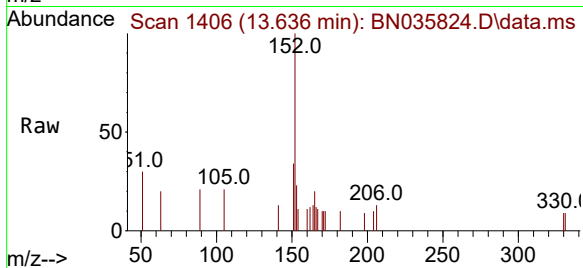
Tgt Ion:152 Resp: 877

Ion Ratio Lower Upper

152 100

151 22.6 16.2 24.2

153 13.7 10.4 15.6



#17

Acenaphthene

Concen: 0.035 ng

RT: 13.978 min Scan# 1438

Delta R.T. -0.021 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

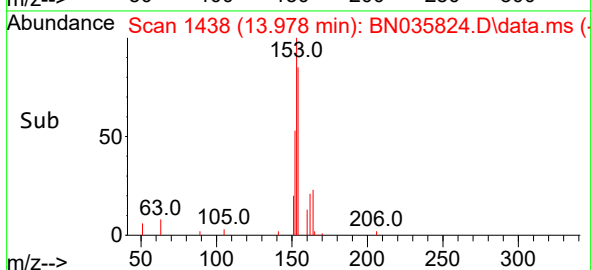
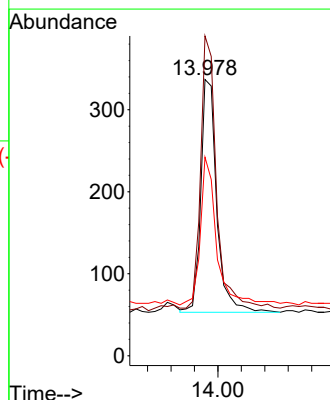
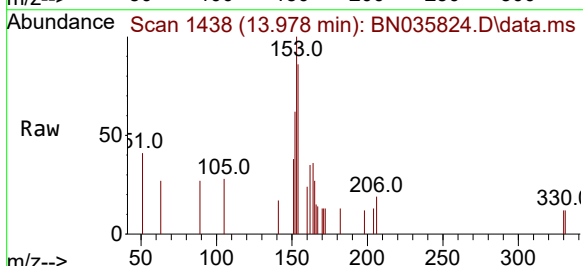
Tgt Ion:154 Resp: 539

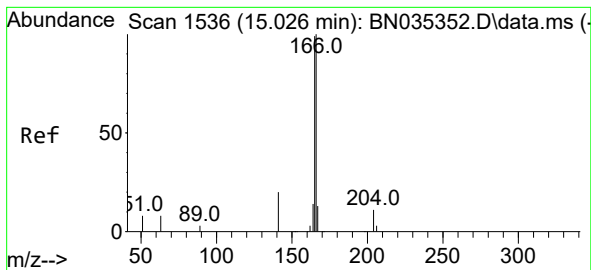
Ion Ratio Lower Upper

154 100

153 115.6 92.6 139.0

152 64.9 49.0 73.6





#18

Fluorene

Concen: 0.035 ng

RT: 14.994 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218

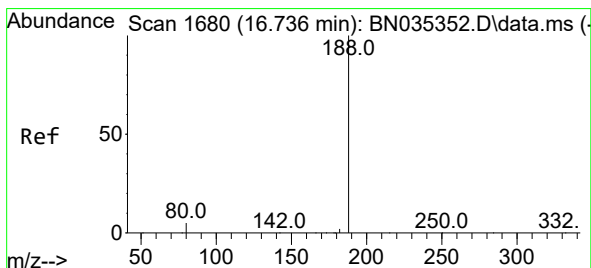
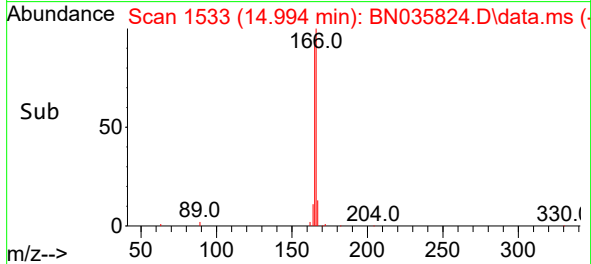
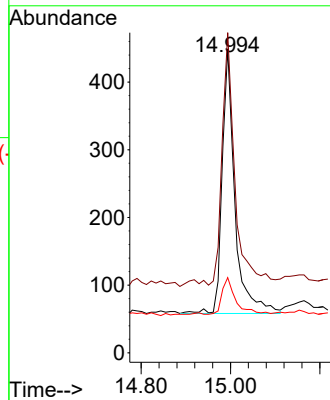
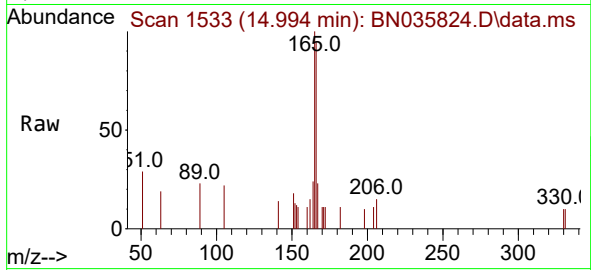
Tgt Ion:166 Resp: 778

Ion Ratio Lower Upper

166 100

165 95.8 79.7 119.5

167 15.2 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: BN035824.D

Acq: 24 Dec 2024 16:42

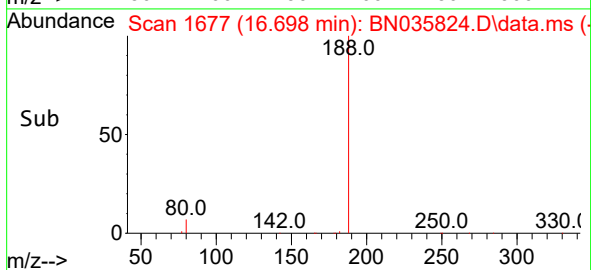
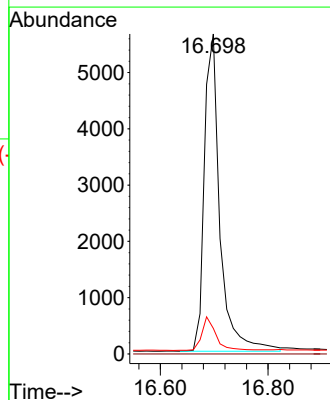
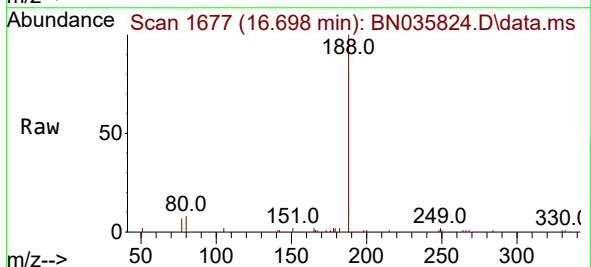
Tgt Ion:188 Resp: 11307

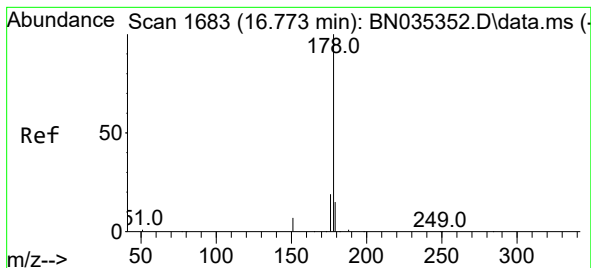
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 4.6 6.8#





#25

Phenanthrene

Concen: 0.057 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.012 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218

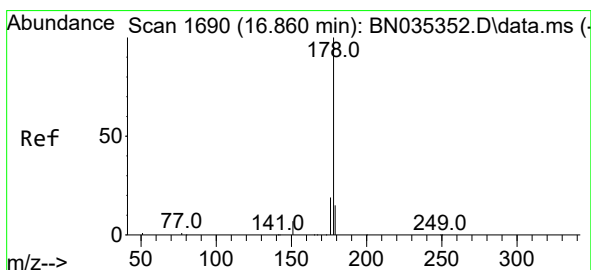
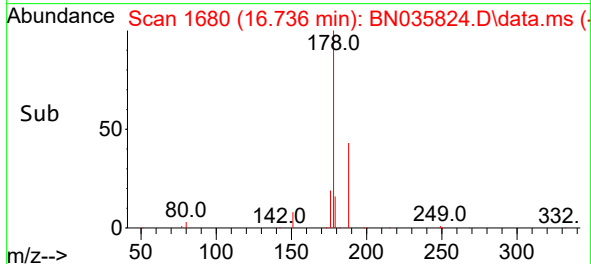
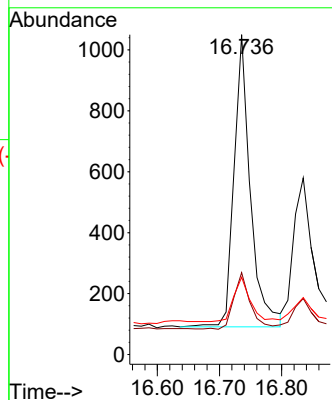
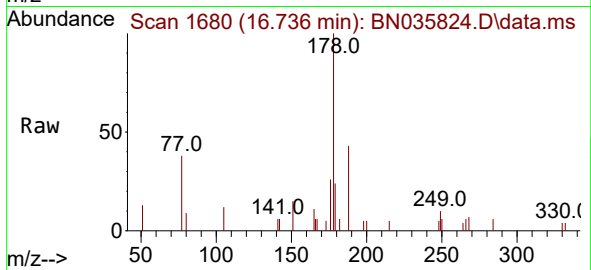
Tgt Ion:178 Resp: 1755

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.7 12.3 18.5



#26

Anthracene

Concen: 0.040 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

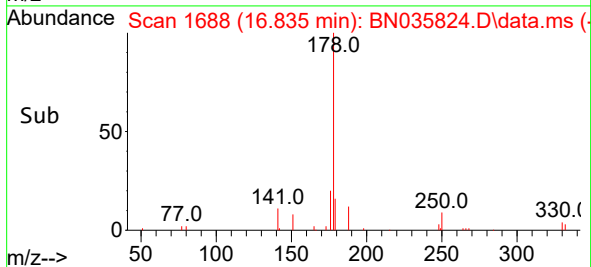
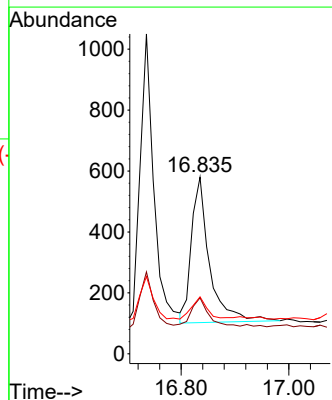
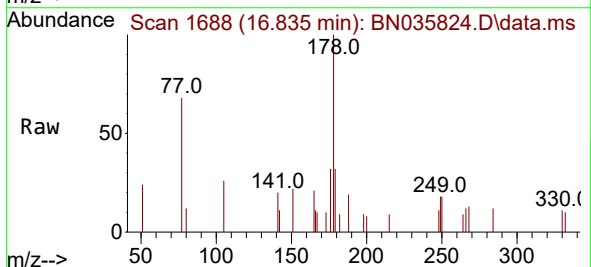
Tgt Ion:178 Resp: 1113

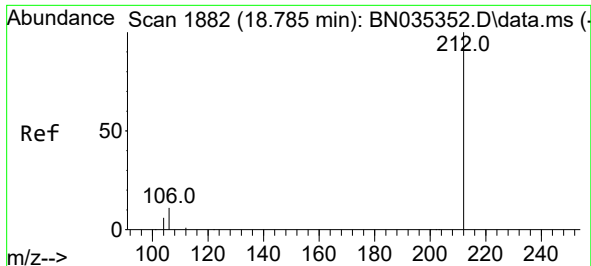
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

179 12.8 12.6 18.8

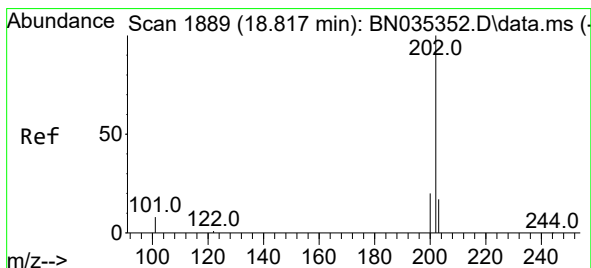
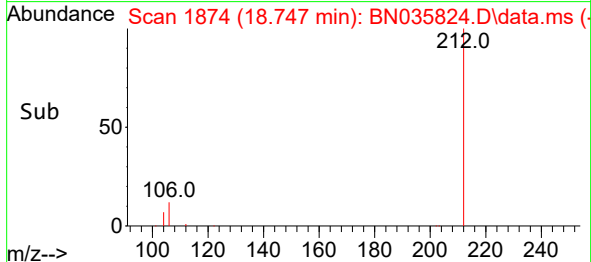
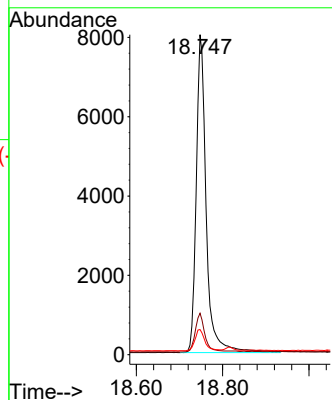
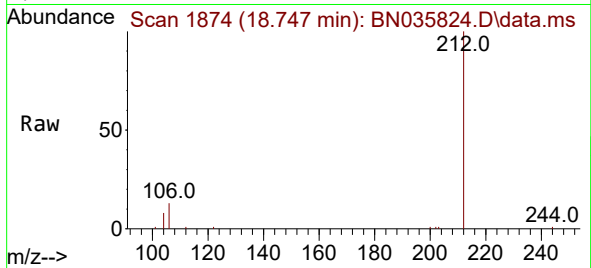




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

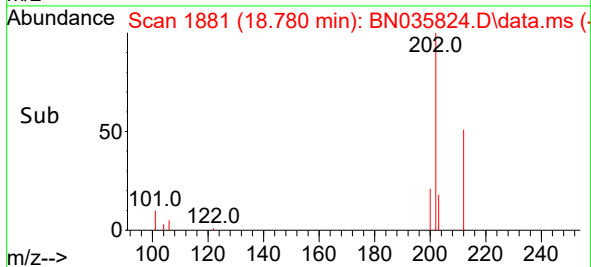
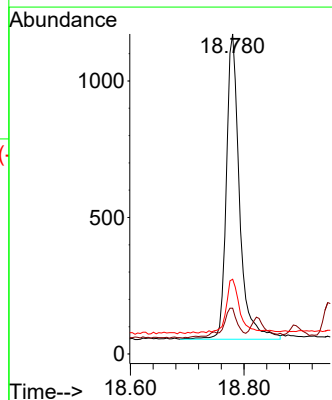
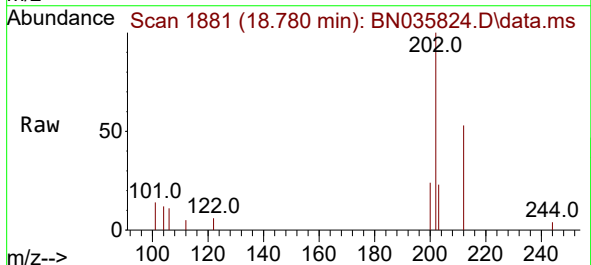
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

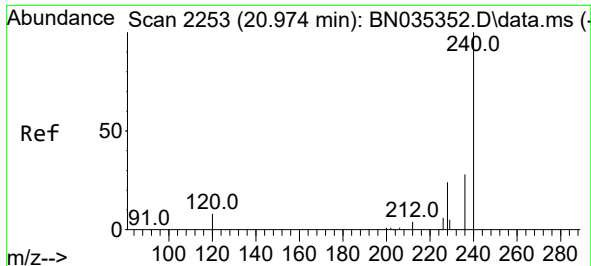
Tgt Ion:212 Resp: 12883
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 6.7 5.3 7.9



#28
Fluoranthene
Concen: 0.043 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1804
Ion Ratio Lower Upper
202 100
101 11.1 7.4 11.0#
203 18.0 13.7 20.5

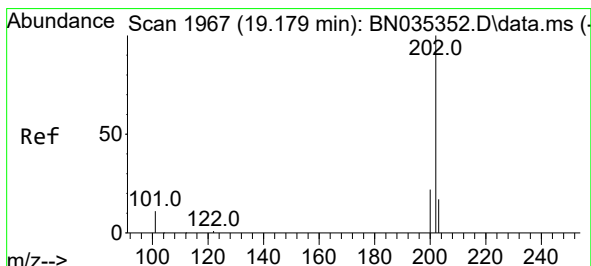
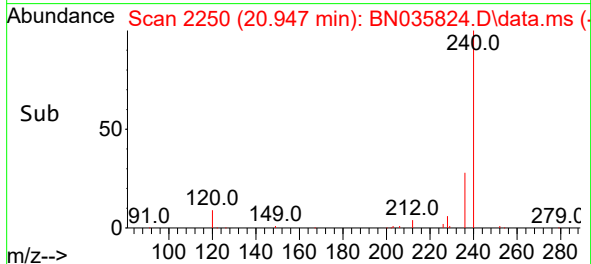
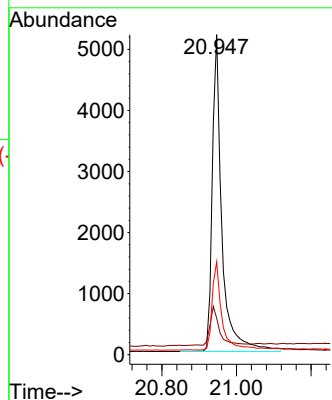
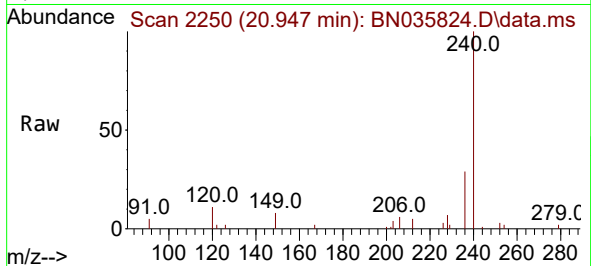




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

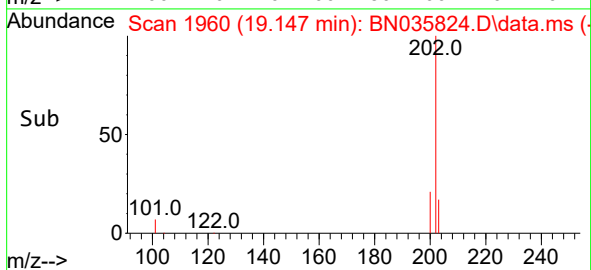
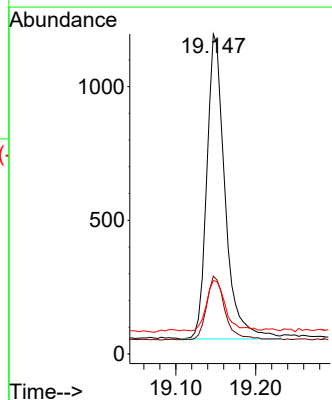
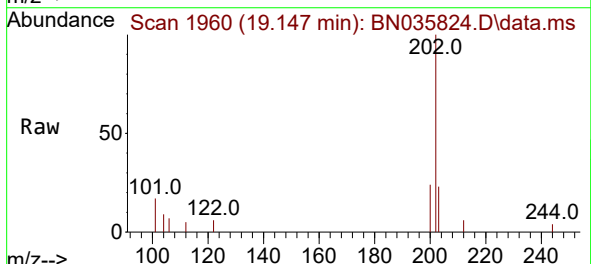
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

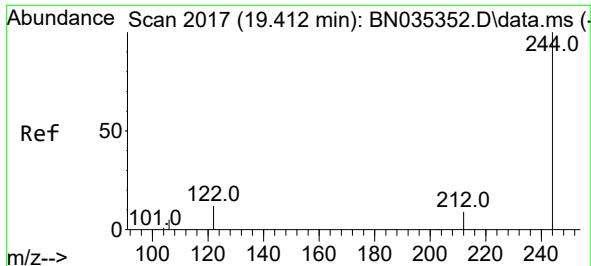
Tgt Ion:240 Resp: 9270
Ion Ratio Lower Upper
240 100
120 11.4 7.9 11.9
236 29.0 22.9 34.3



#30
Pyrene
Concen: 0.053 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1807
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.7 14.3 21.5

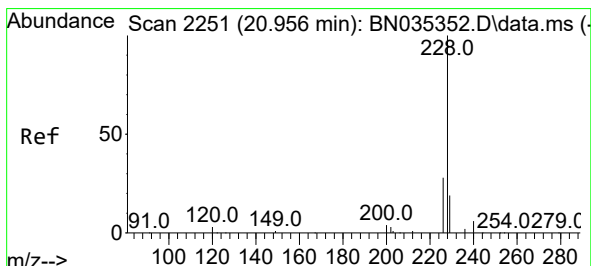
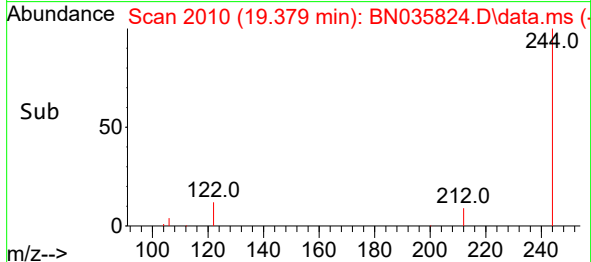
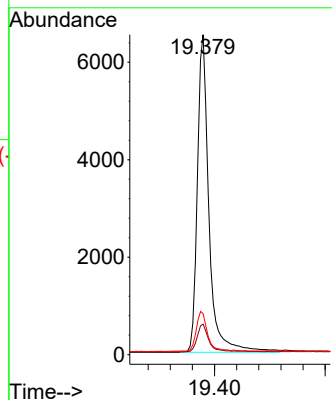
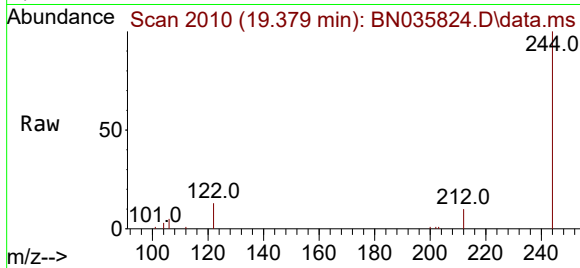




#31
 Terphenyl-d14
 Concen: 0.520 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035824.D
 Acq: 24 Dec 2024 16:42

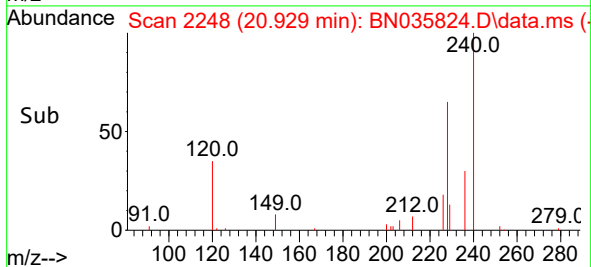
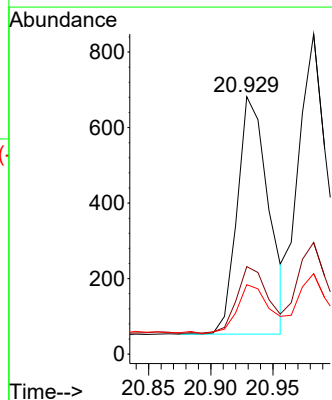
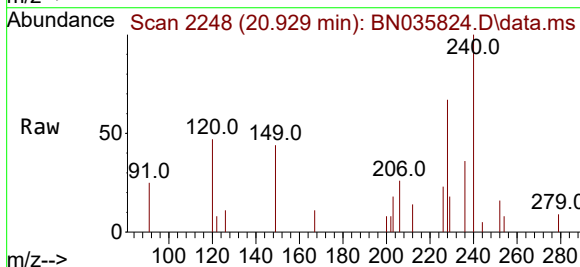
Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01S-20241218

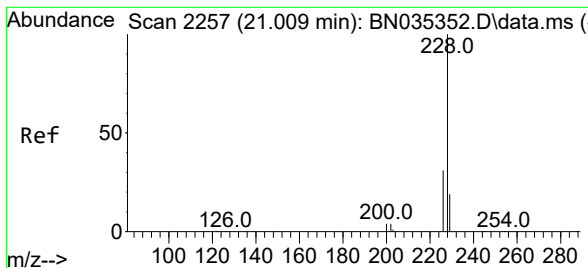
Tgt Ion:244 Resp: 9501
 Ion Ratio Lower Upper
 244 100
 212 9.5 8.1 12.1
 122 12.8 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.034 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035824.D
 Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 1100
 Ion Ratio Lower Upper
 228 100
 226 34.0 22.5 33.7#
 229 27.0 15.8 23.8#





#33

Chrysene

Concen: 0.045 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218

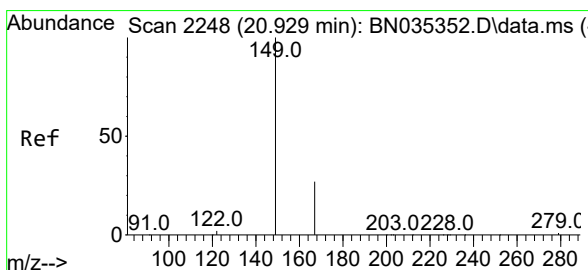
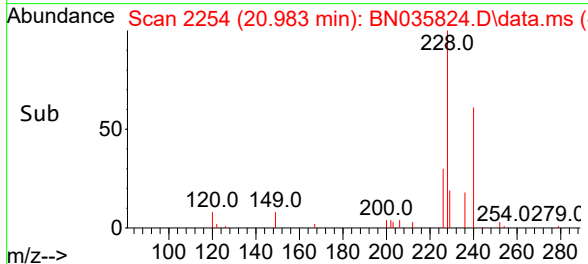
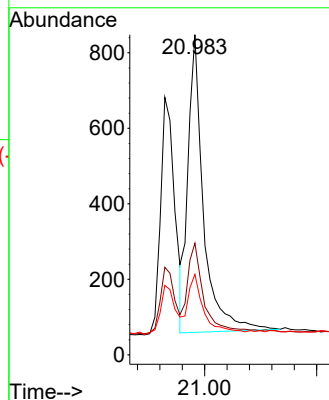
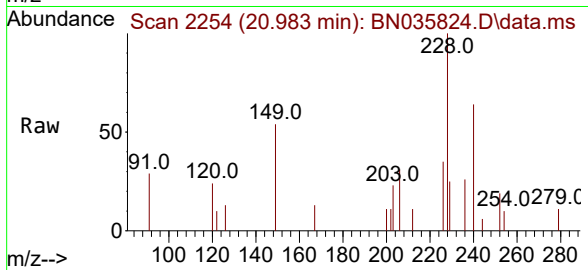
Tgt Ion:228 Resp: 1514

Ion Ratio Lower Upper

228 100

226 34.9 24.6 37.0

229 25.1 15.9 23.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.077 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

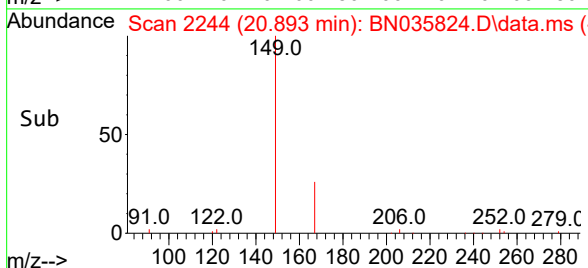
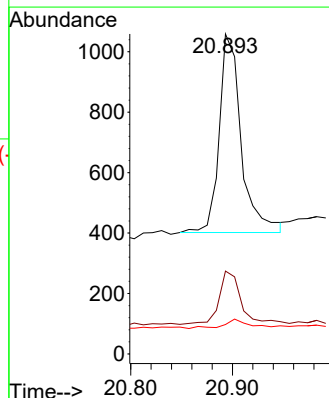
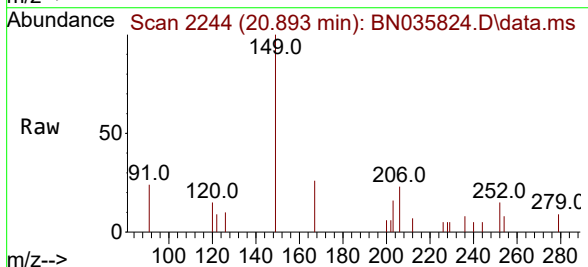
Tgt Ion:149 Resp: 988

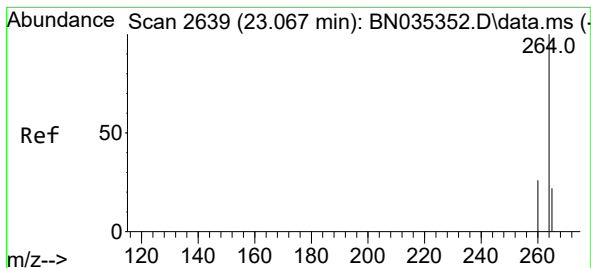
Ion Ratio Lower Upper

149 100

167 26.7 22.2 33.4

279 5.5 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: BN035824.D

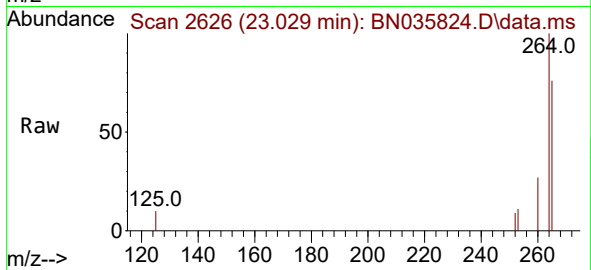
Acq: 24 Dec 2024 16:42

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20241218



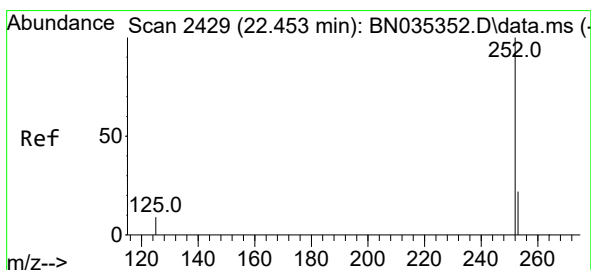
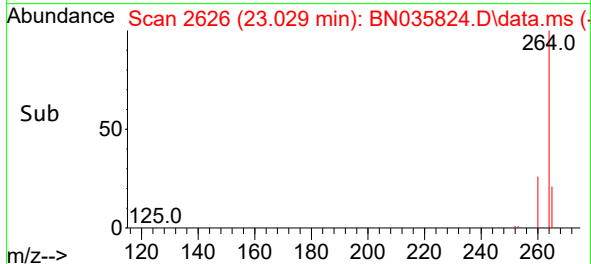
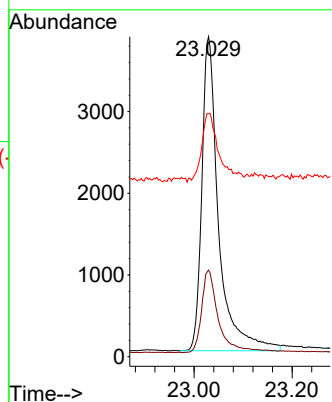
Tgt Ion:264 Resp: 9119

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 75.9 40.2 60.4#



#37

Benzo(b)fluoranthene

Concen: 0.042 ng

RT: 22.424 min Scan# 2419

Delta R.T. -0.006 min

Lab File: BN035824.D

Acq: 24 Dec 2024 16:42

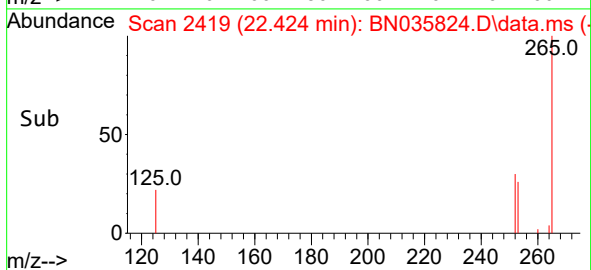
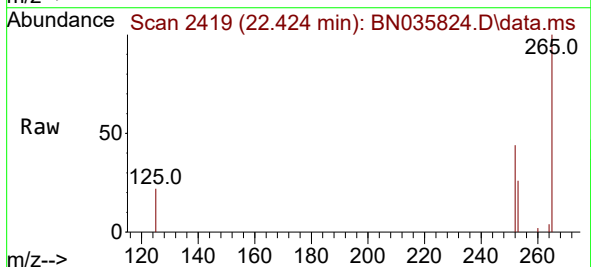
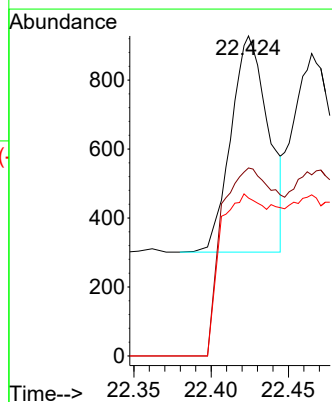
Tgt Ion:252 Resp: 1409

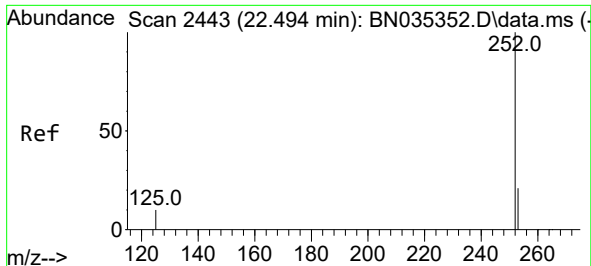
Ion Ratio Lower Upper

252 100

253 58.7 19.6 29.4#

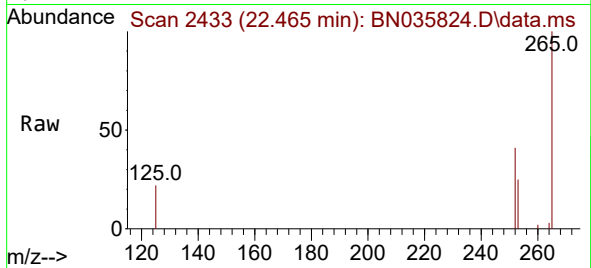
125 49.4 9.6 14.4#



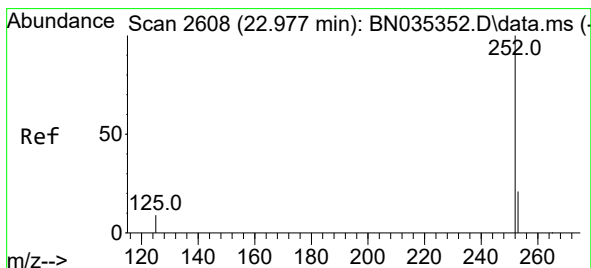
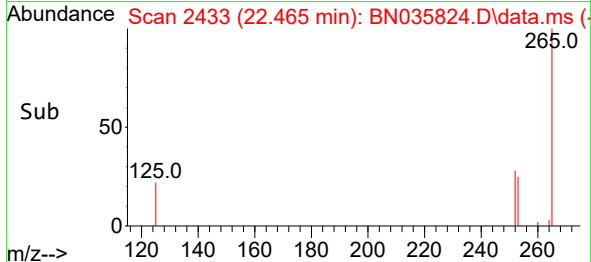
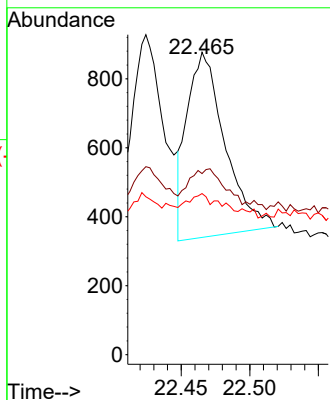


#38
Benzo(k)fluoranthene
Concen: 0.031 ng
RT: 22.465 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

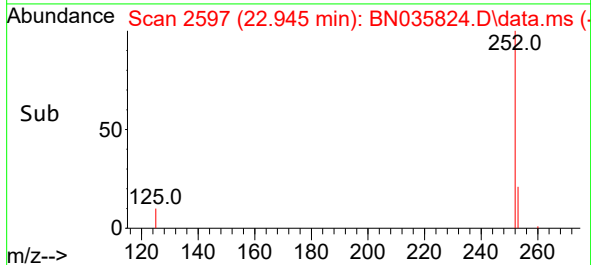
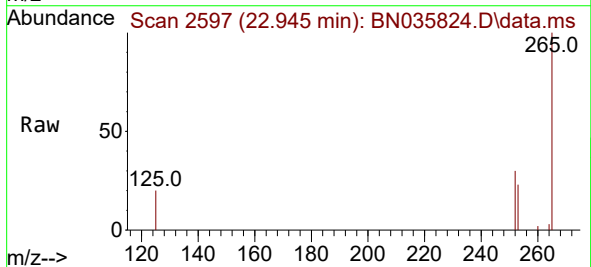
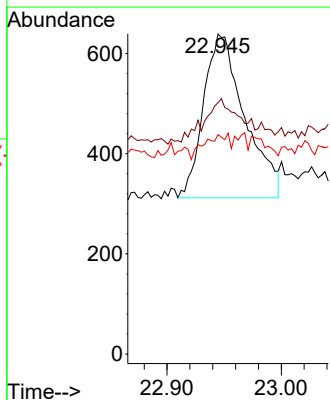


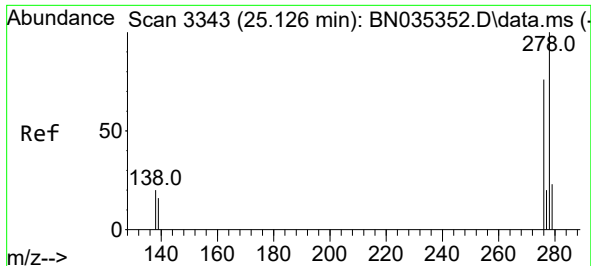
Tgt Ion:252 Resp: 1028
Ion Ratio Lower Upper
252 100
253 59.9 19.5 29.3#
125 53.2 10.2 15.4#



#39
Benzo(a)pyrene
Concen: 0.030 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 820
Ion Ratio Lower Upper
252 100
253 78.6 20.2 30.4#
125 68.5 10.9 16.3#

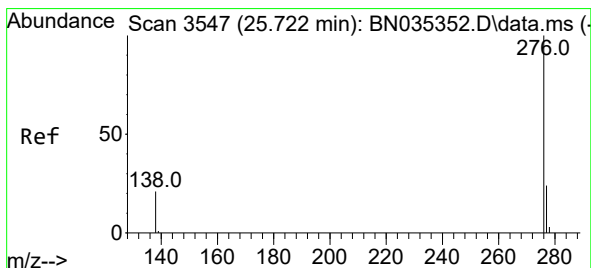
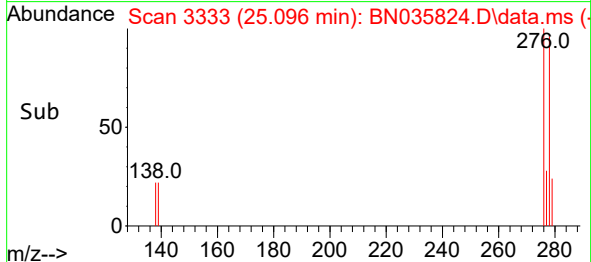
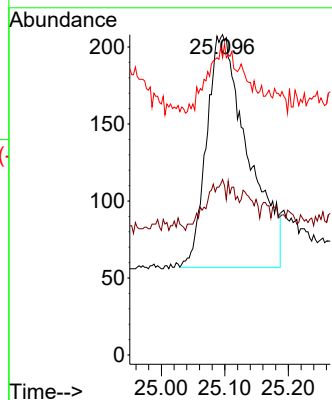
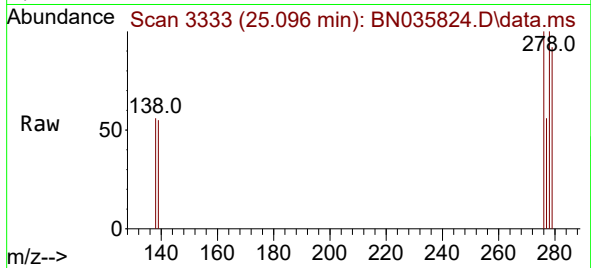




#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.096 min Scan# 31
Delta R.T. 0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

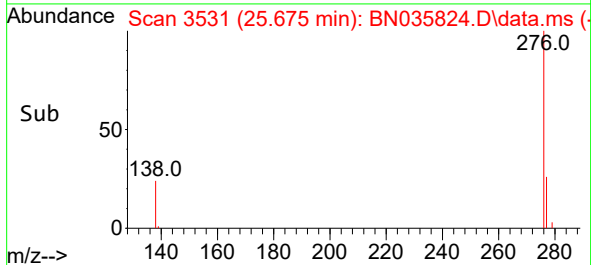
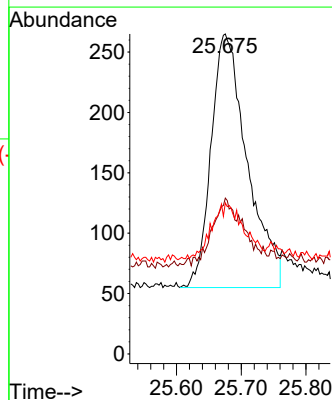
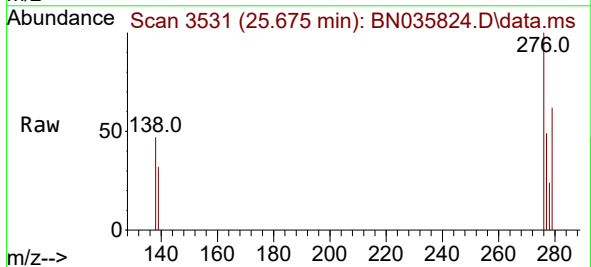
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:278 Resp: 685
Ion Ratio Lower Upper
278 100
139 54.8 14.2 21.4#
279 92.8 20.5 30.7#



#41
Benzo(g,h,i)perylene
Concen: 0.028 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 816
Ion Ratio Lower Upper
276 100
277 48.7 19.9 29.9#
138 47.2 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035825.D
 Acq On : 24 Dec 2024 17:18
 Operator : RC/JU
 Sample : P5376-12
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01I-20241218

Quant Time: Dec 24 23:20:05 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)

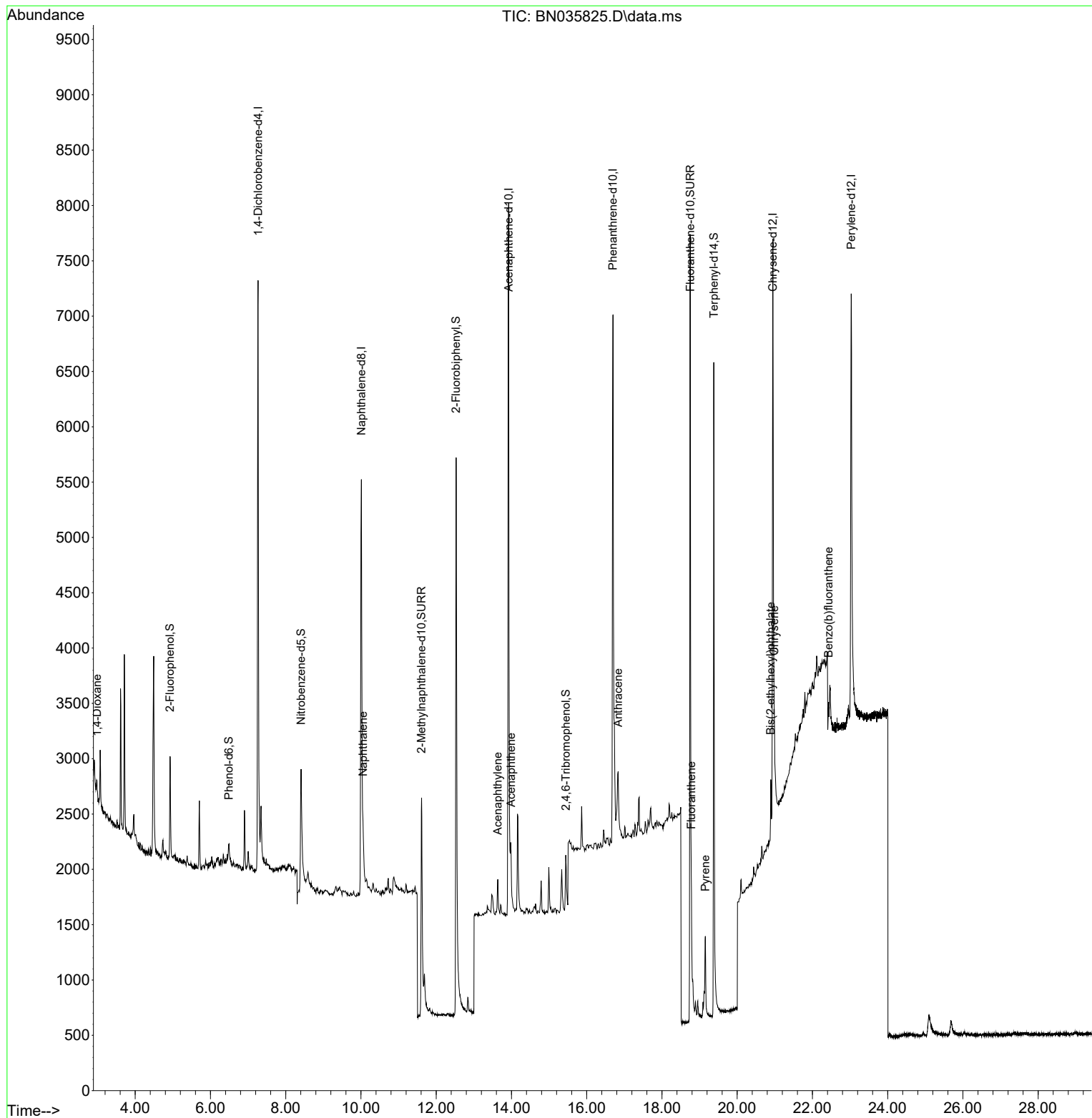
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3186	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7275	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4568	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9048	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6943	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6791	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	881	0.110	ng	-0.01
5) Phenol-d6	6.484	99	395	0.041	ng	0.00
8) Nitrobenzene-d5	8.408	82	2909	0.655	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4263	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	626	0.193	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6668	0.386	ng	-0.02
27) Fluoranthene-d10	18.752	212	10051	0.392	ng	0.00
31) Terphenyl-d14	19.379	244	7353	0.537	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.982	88	98	0.032	ng	# 64
9) Naphthalene	10.052	128	451	0.024	ng	# 49
16) Acenaphthylene	13.636	152	407	0.021	ng	# 89
17) Acenaphthene	13.989	154	278	0.022	ng	94
26) Anthracene	16.835	178	519	0.023	ng	# 88
28) Fluoranthene	18.780	202	792	0.024	ng	# 98
30) Pyrene	19.152	202	780	0.030	ng	99
33) Chrysene	20.983	228	620	0.025	ng	# 78
34) Bis(2-ethylhexyl)phtha...	20.893	149	598	0.062	ng	# 95
37) Benzo(b)fluoranthene	22.427	252	629	0.025	ng	# 1

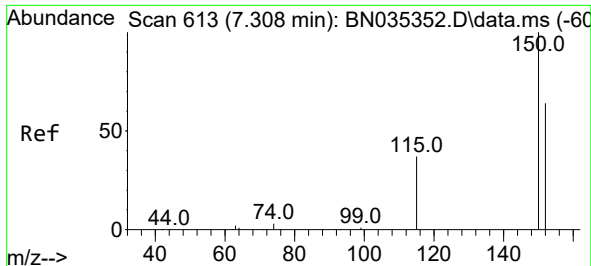
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

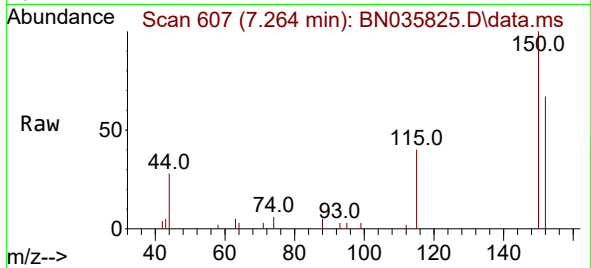
Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



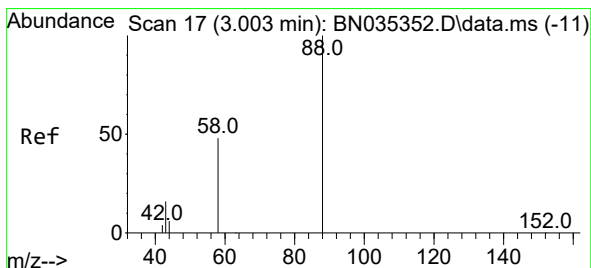
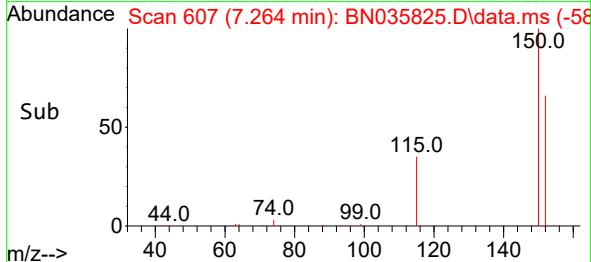
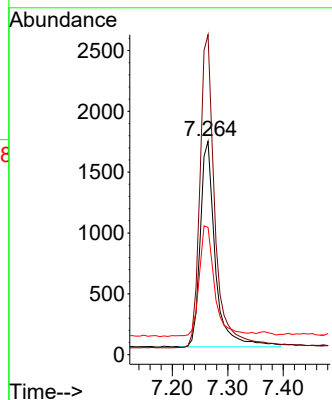


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218

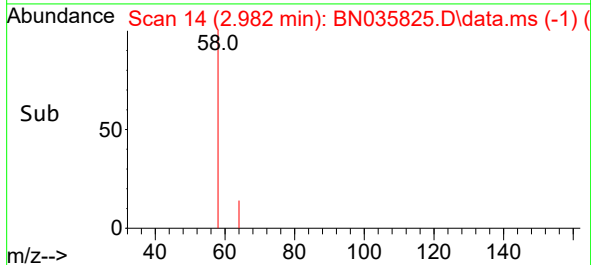
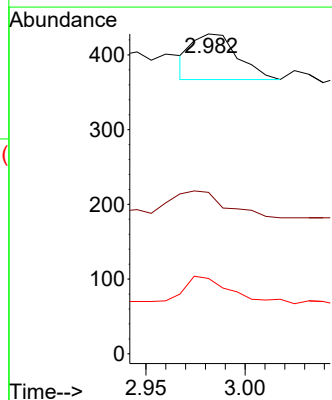
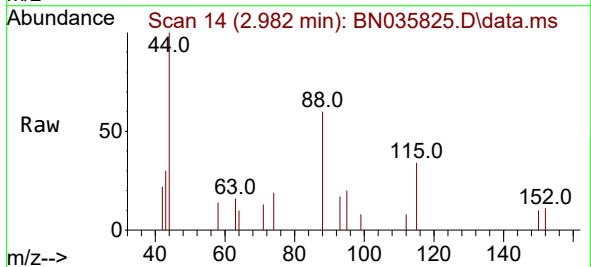


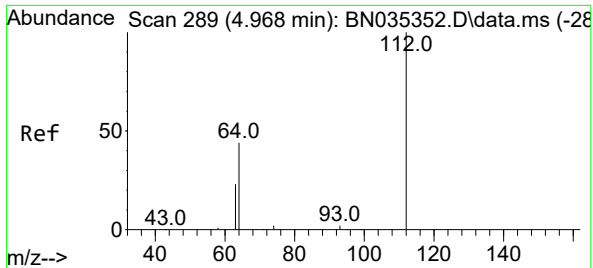
Tgt Ion:152 Resp: 3186
Ion Ratio Lower Upper
152 100
150 150.0 124.0 186.0
115 59.7 49.6 74.4



#2
1,4-Dioxane
Concen: 0.032 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 88 Resp: 98
Ion Ratio Lower Upper
88 100
43 70.4 17.2 25.8#
58 63.3 44.5 66.7

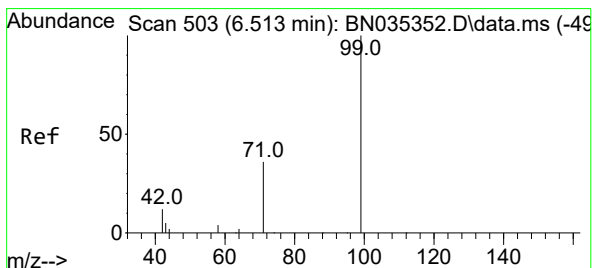
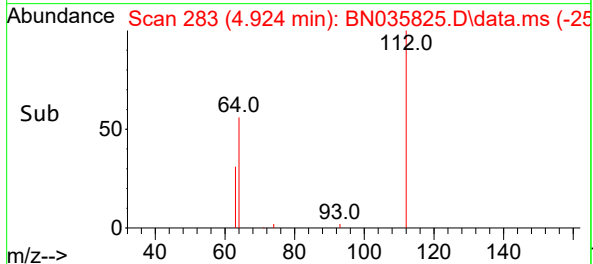
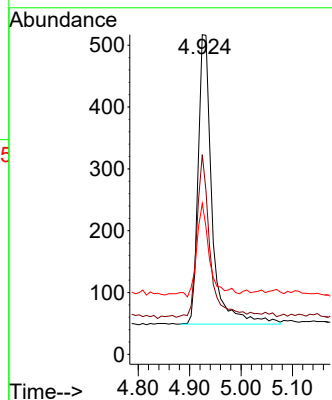
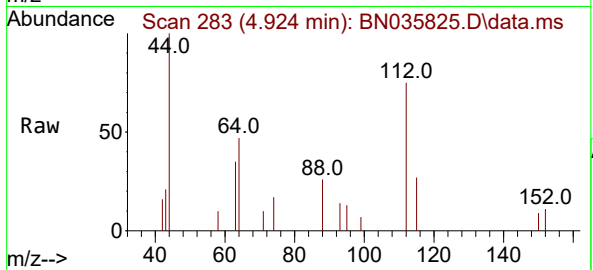




#4
2-Fluorophenol
Concen: 0.110 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

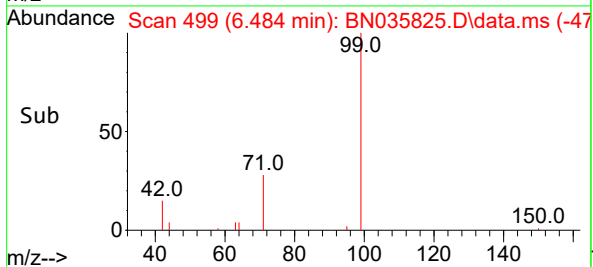
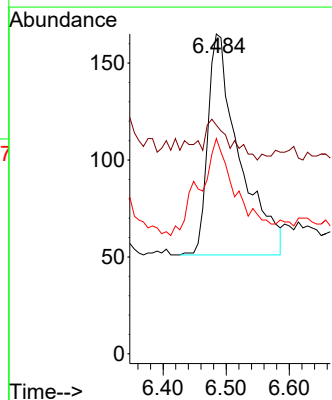
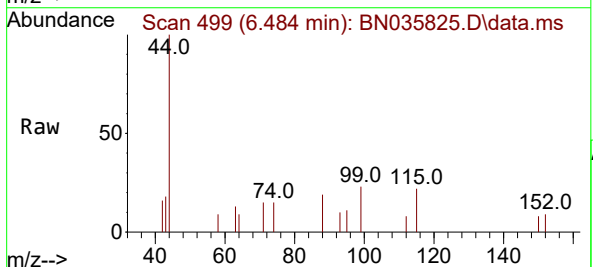
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218

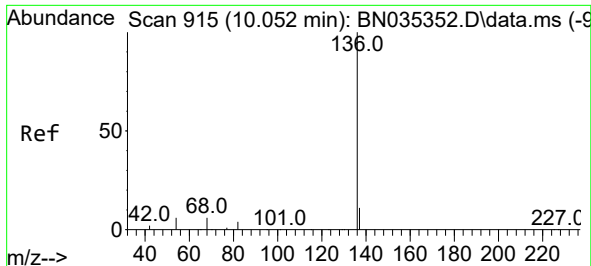
Tgt Ion:	112	Resp:	881
Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.1	21.0	31.6



#5
Phenol-d6
Concen: 0.041 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:	99	Resp:	395
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	31.4	29.3	43.9

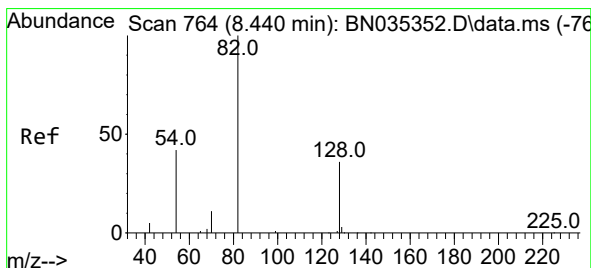
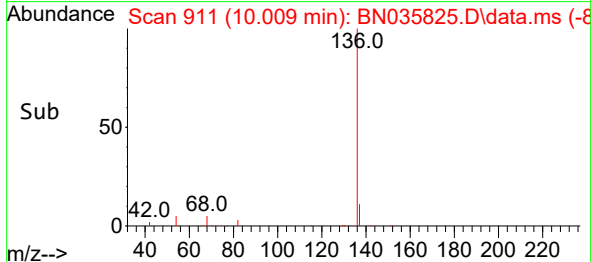
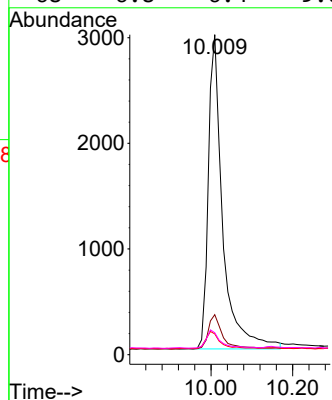
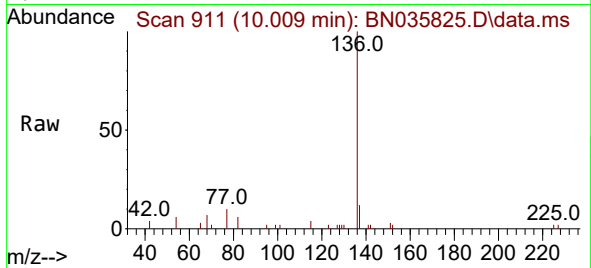




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

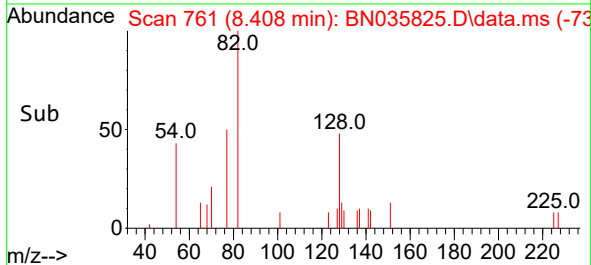
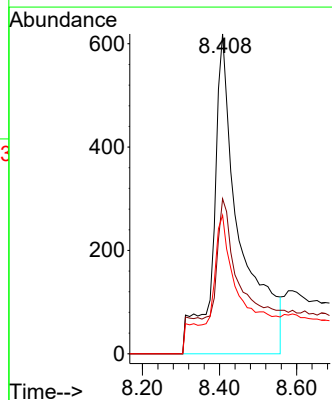
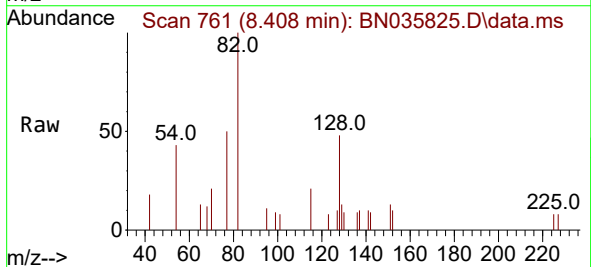
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218

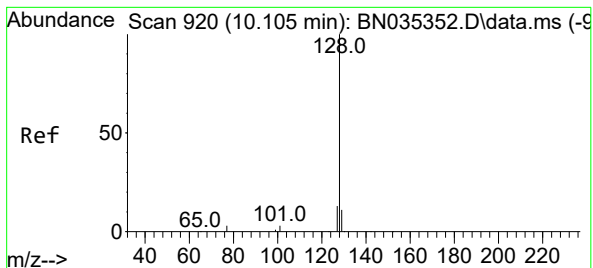
Tgt Ion:	136	Resp:	7275
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.5	6.1	9.1
68	6.8	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.655 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:	82	Resp:	2909
Ion	Ratio	Lower	Upper
82	100		
128	48.5	33.4	50.0
54	43.3	36.7	55.1





#9

Naphthalene

Concen: 0.024 ng

RT: 10.052 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035825.D

Acq: 24 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01-20241218

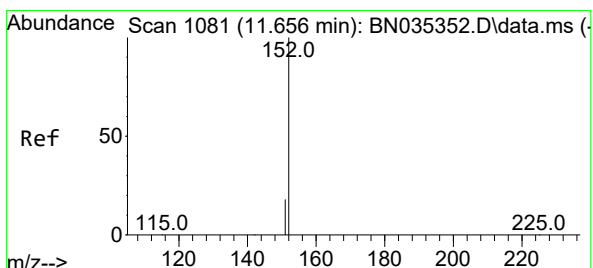
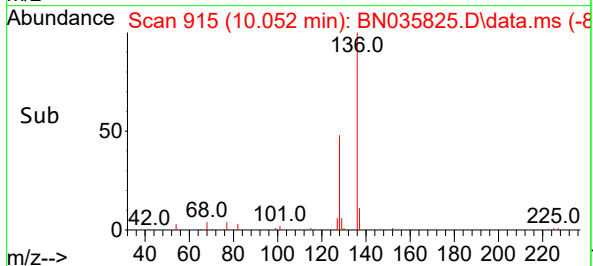
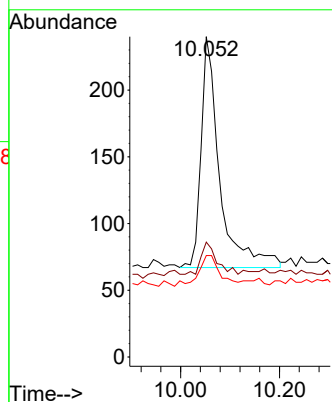
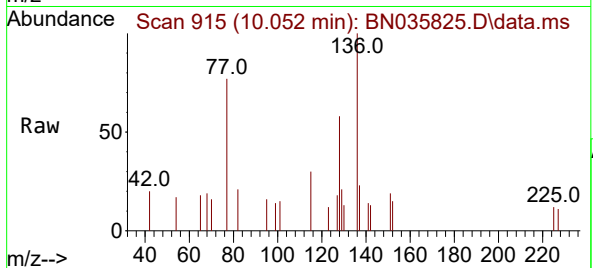
Tgt Ion:128 Resp: 451

Ion Ratio Lower Upper

128 100

129 35.8 9.8 14.6#

127 31.7 11.4 17.2#



#11

2-Methylnaphthalene-d10

Concen: 0.374 ng

RT: 11.610 min Scan# 1072

Delta R.T. -0.010 min

Lab File: BN035825.D

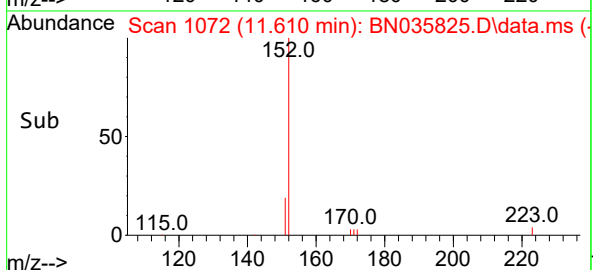
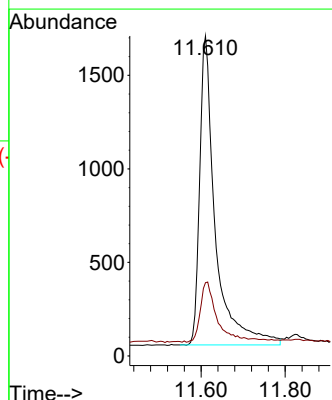
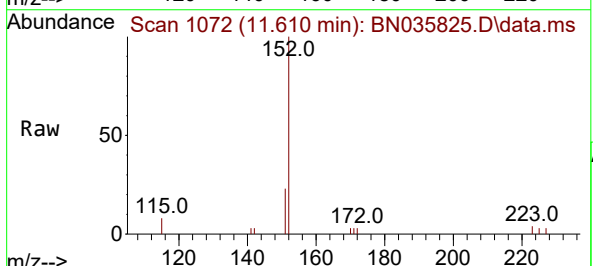
Acq: 24 Dec 2024 17:18

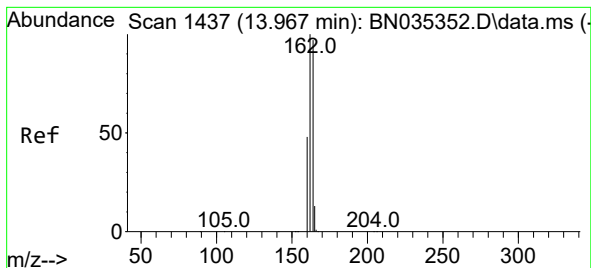
Tgt Ion:152 Resp: 4263

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: BN035825.D

Acq: 24 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01I-20241218

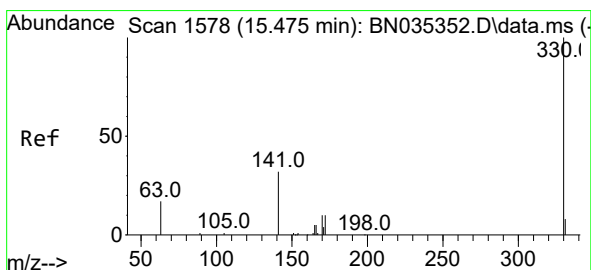
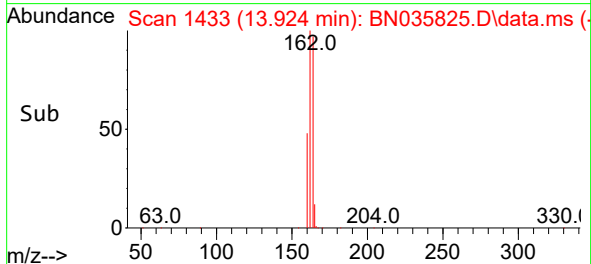
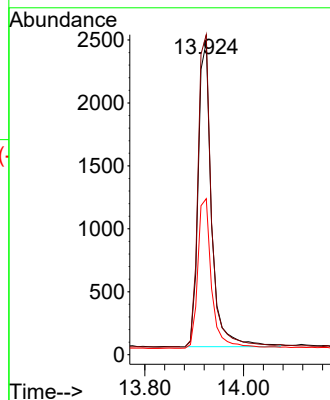
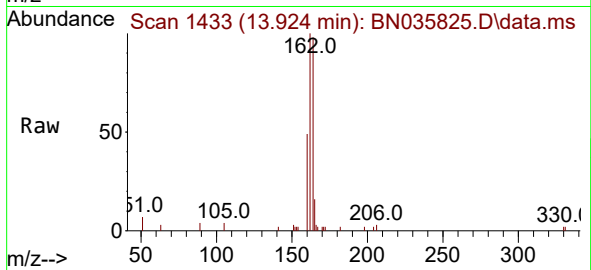
Tgt Ion:164 Resp: 4568

Ion Ratio Lower Upper

164 100

162 102.3 82.2 123.2

160 49.9 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.193 ng

RT: 15.443 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035825.D

Acq: 24 Dec 2024 17:18

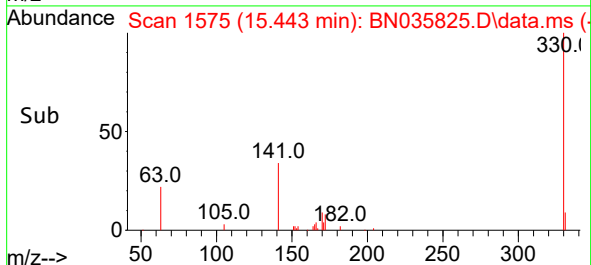
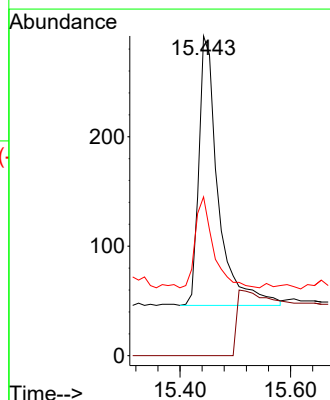
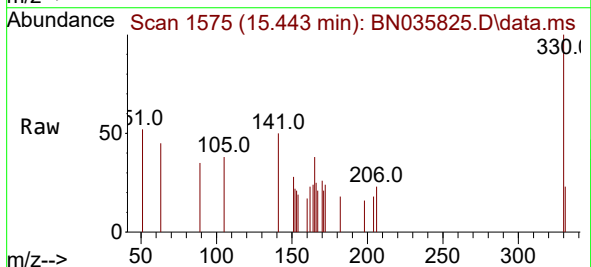
Tgt Ion:330 Resp: 626

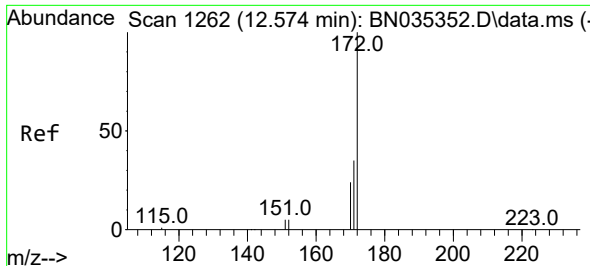
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 30.7 26.6 40.0

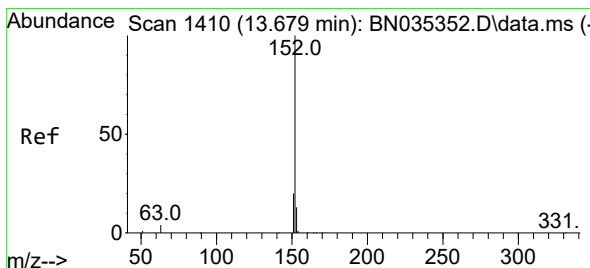
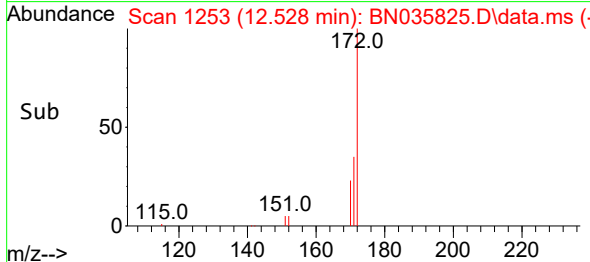
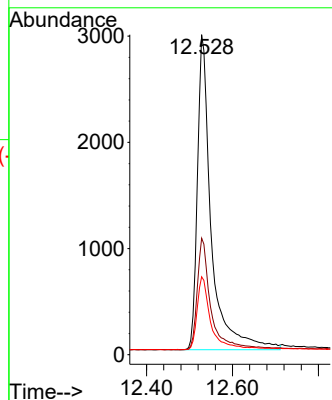
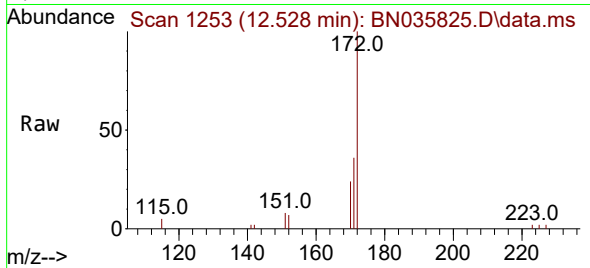




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

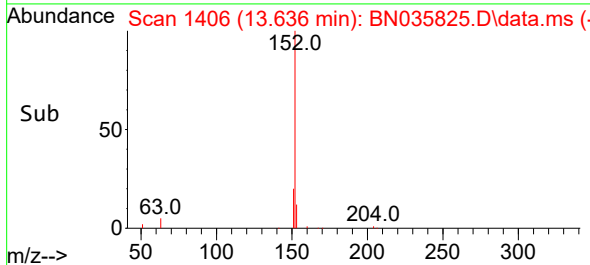
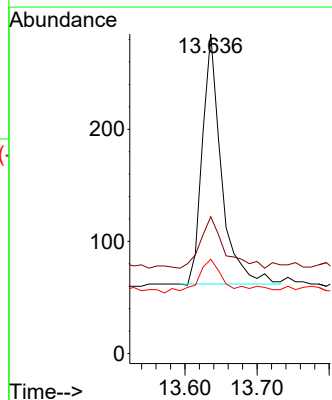
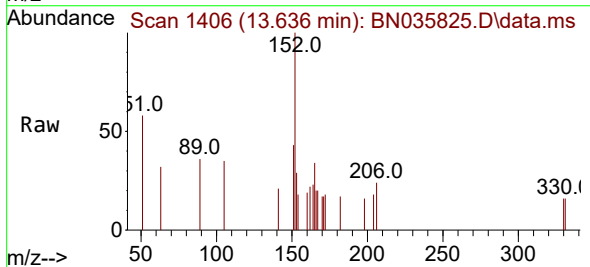
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

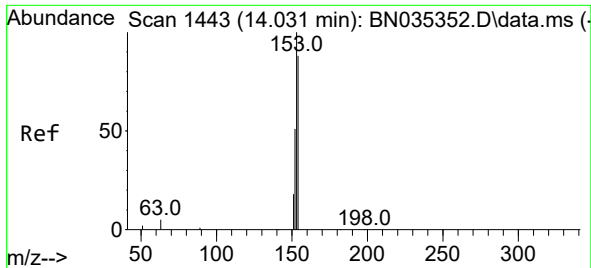
Tgt Ion:172	Resp:	6668
Ion	Ratio	Lower Upper
172	100	
171	36.4	29.0 43.4
170	24.4	19.8 29.8



#16
Acenaphthylene
Concen: 0.021 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152	Resp:	407
Ion	Ratio	Lower Upper
152	100	
151	25.3	16.2 24.2#
153	17.7	10.4 15.6#

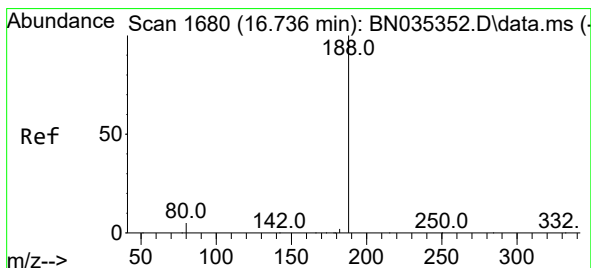
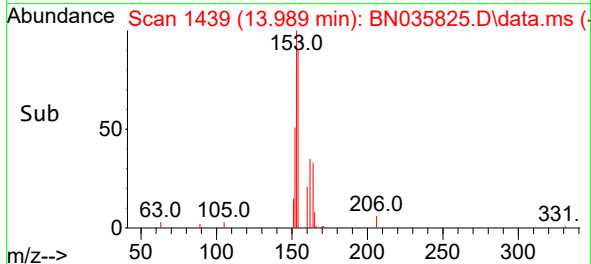
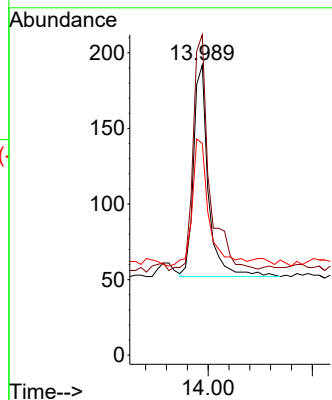
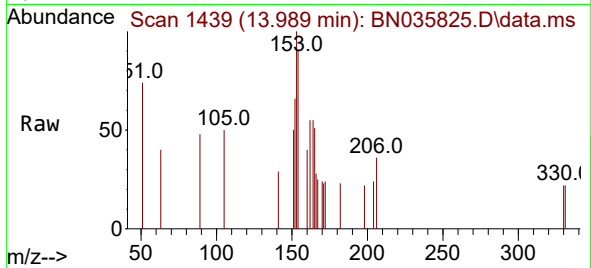




#17
Acenaphthene
Concen: 0.022 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

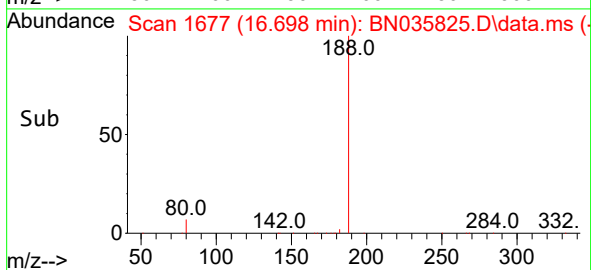
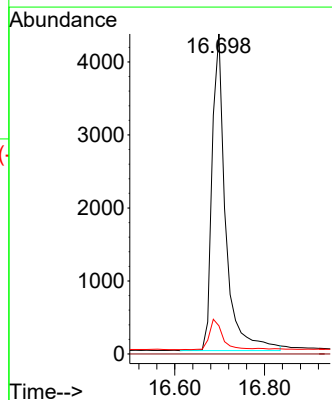
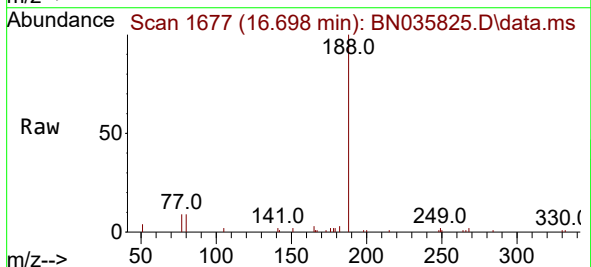
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218

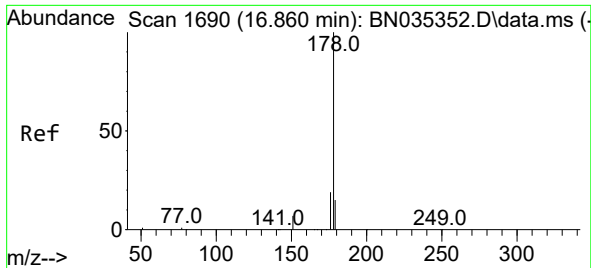
Tgt Ion:154 Resp: 278
Ion Ratio Lower Upper
154 100
153 121.9 92.6 139.0
152 67.3 49.0 73.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:188 Resp: 9048
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 4.6 6.8#

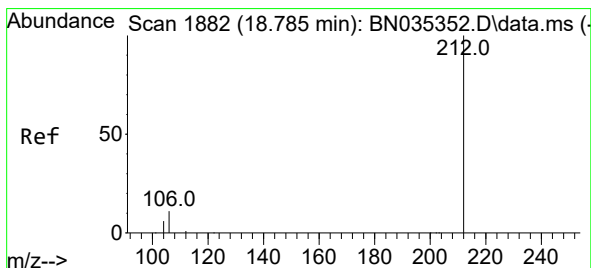
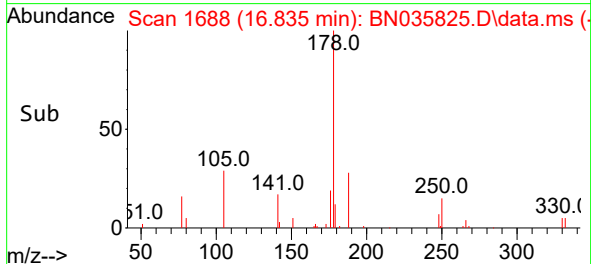
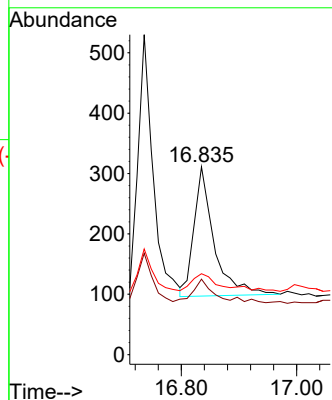
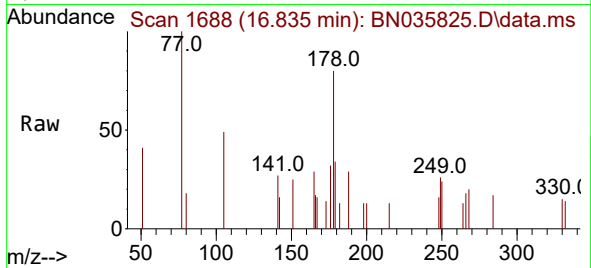




#26
 Anthracene
 Concen: 0.023 ng
 RT: 16.835 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: BN035825.D
 Acq: 24 Dec 2024 17:18

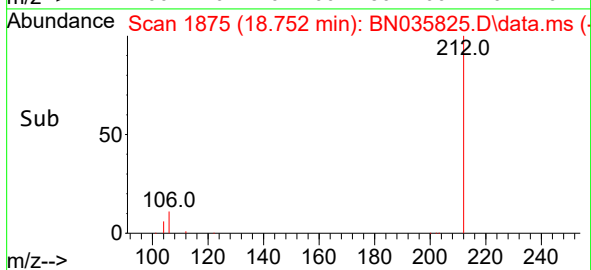
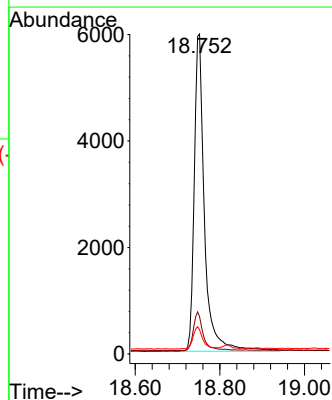
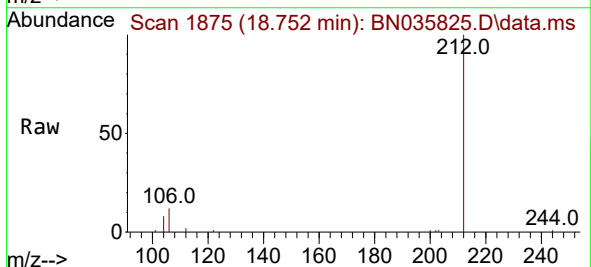
Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01-20241218

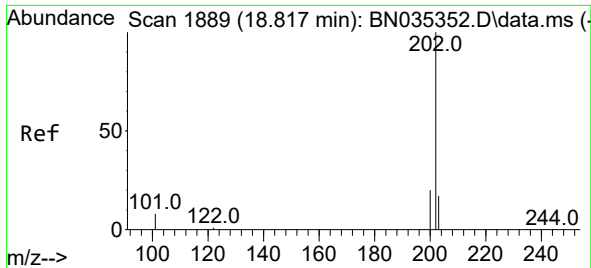
Tgt Ion:178 Resp: 519
 Ion Ratio Lower Upper
 178 100
 176 15.4 15.0 22.6
 179 23.1 12.6 18.8#



#27
 Fluoranthene-d10
 Concen: 0.392 ng
 RT: 18.752 min Scan# 1875
 Delta R.T. -0.009 min
 Lab File: BN035825.D
 Acq: 24 Dec 2024 17:18

Tgt Ion:212 Resp: 10051
 Ion Ratio Lower Upper
 212 100
 106 11.8 9.2 13.8
 104 6.5 5.3 7.9

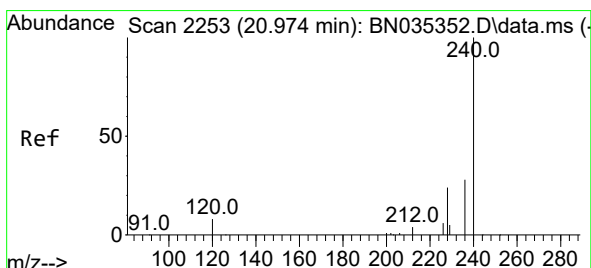
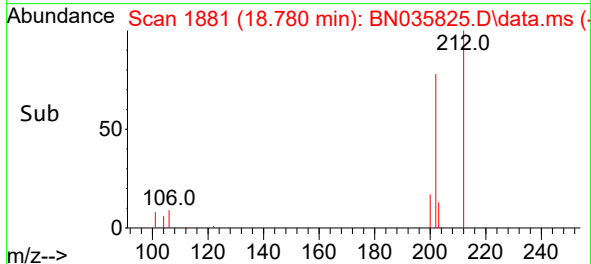
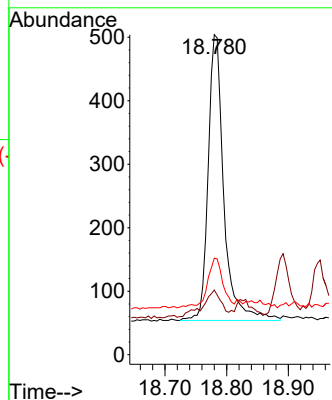
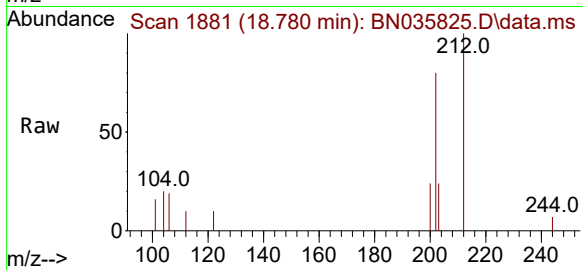




#28
Fluoranthene
Concen: 0.024 ng
RT: 18.780 min Scan# 1889
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

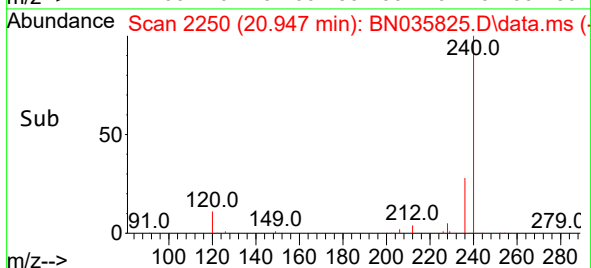
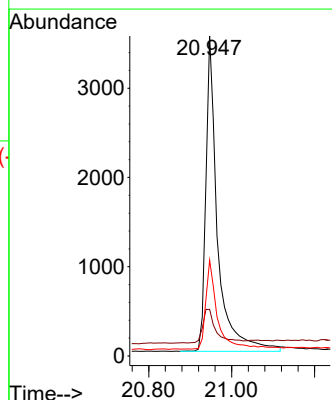
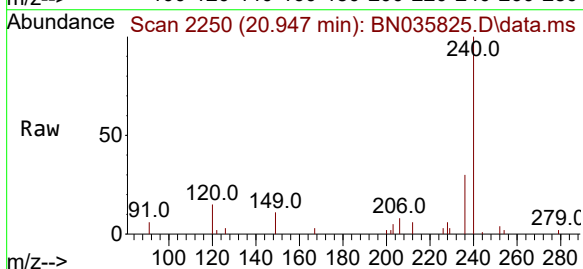
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20241218

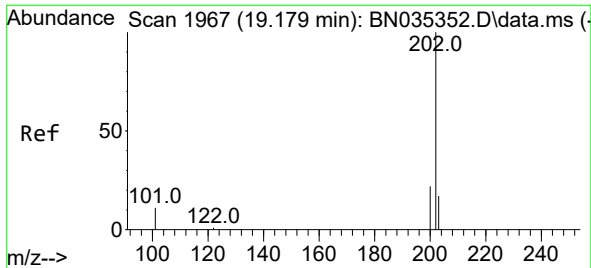
Tgt Ion:202 Resp: 792
Ion Ratio Lower Upper
202 100
101 11.1 7.4 11.0#
203 17.2 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:240 Resp: 6943
Ion Ratio Lower Upper
240 100
120 14.5 7.9 11.9#
236 29.9 22.9 34.3

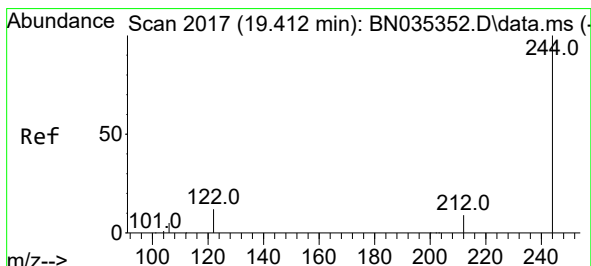
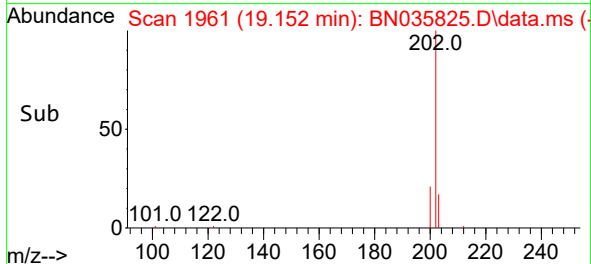
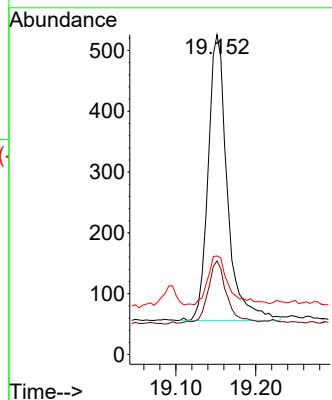
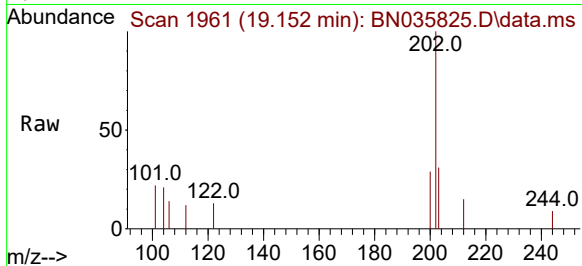




#30
 Pyrene
 Concen: 0.030 ng
 RT: 19.152 min Scan# 1961
 Delta R.T. -0.009 min
 Lab File: BN035825.D
 Acq: 24 Dec 2024 17:18

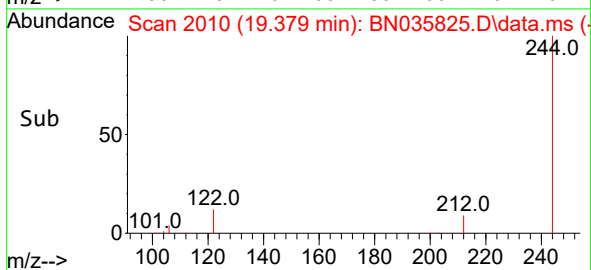
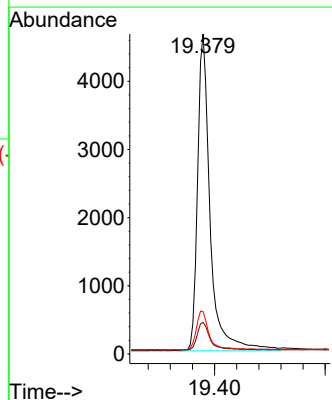
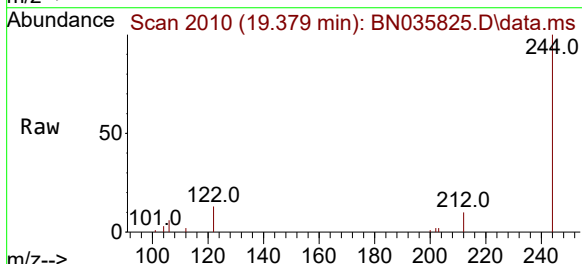
Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01-20241218

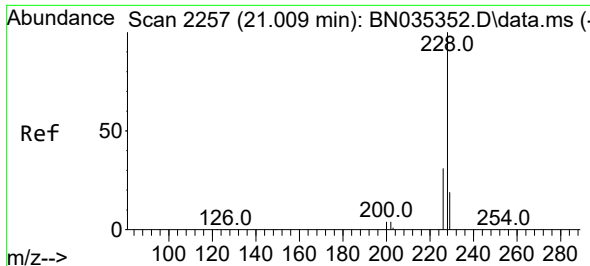
Tgt Ion:	202	Resp:	780
Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	18.5	14.3	21.5



#31
 Terphenyl-d14
 Concen: 0.537 ng
 RT: 19.379 min Scan# 2010
 Delta R.T. -0.009 min
 Lab File: BN035825.D
 Acq: 24 Dec 2024 17:18

Tgt Ion:	244	Resp:	7353
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.3	10.3	15.5





#33

Chrysene

Concen: 0.025 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035825.D

Acq: 24 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01-20241218

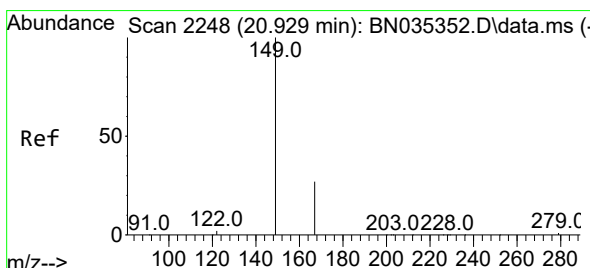
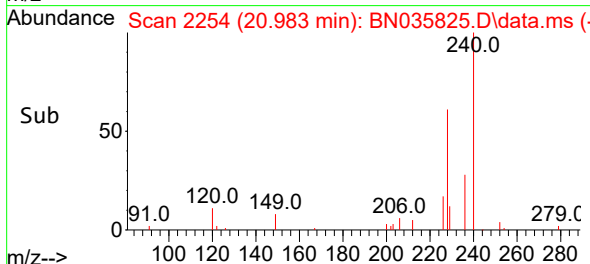
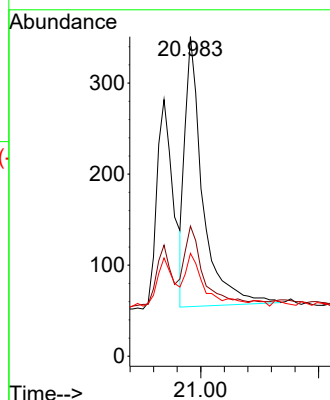
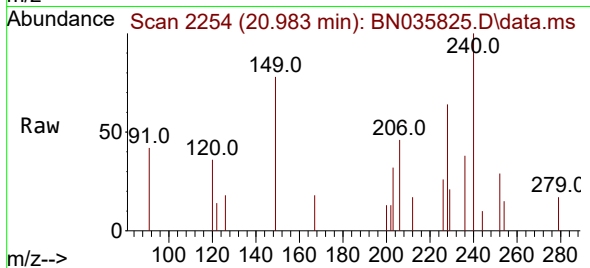
Tgt Ion:228 Resp: 620

Ion Ratio Lower Upper

228 100

226 40.7 24.6 37.0#

229 32.2 15.9 23.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.062 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035825.D

Acq: 24 Dec 2024 17:18

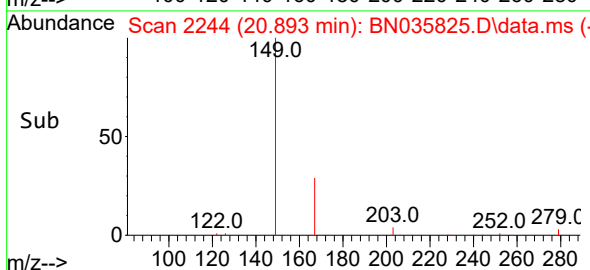
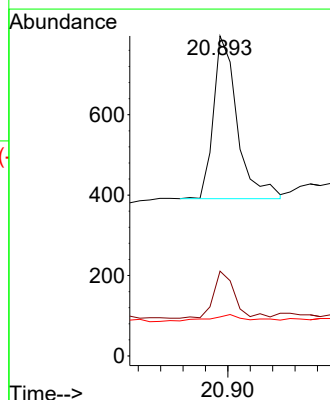
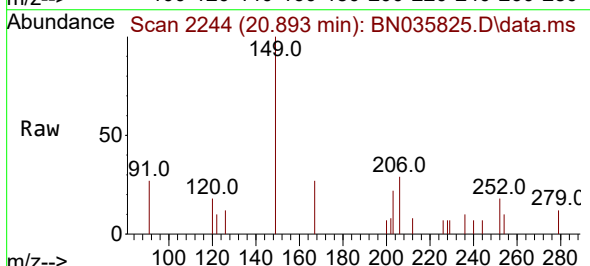
Tgt Ion:149 Resp: 598

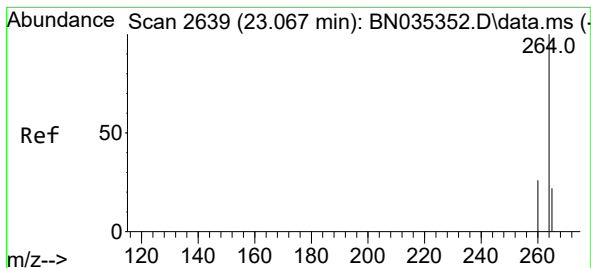
Ion Ratio Lower Upper

149 100

167 25.4 22.2 33.4

279 5.5 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: BN035825.D

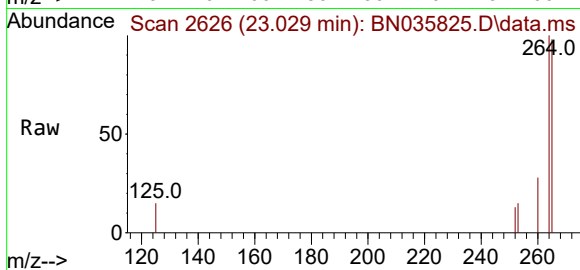
Acq: 24 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01I-20241218



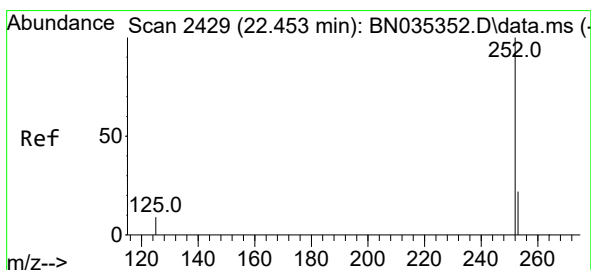
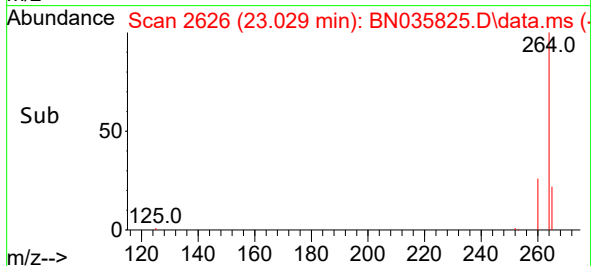
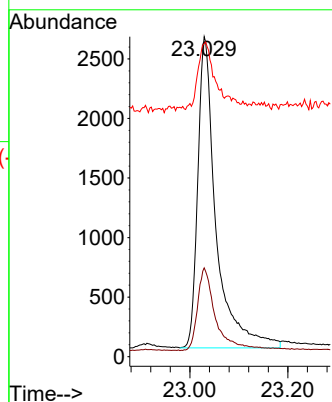
Tgt Ion:264 Resp: 6791

Ion Ratio Lower Upper

264 100

260 27.8 21.4 32.2

265 97.8 40.2 60.4#



#37

Benzo(b)fluoranthene

Concen: 0.025 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035825.D

Acq: 24 Dec 2024 17:18

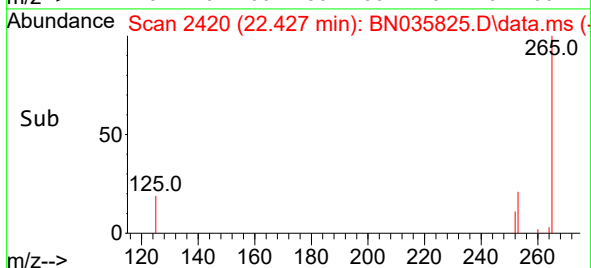
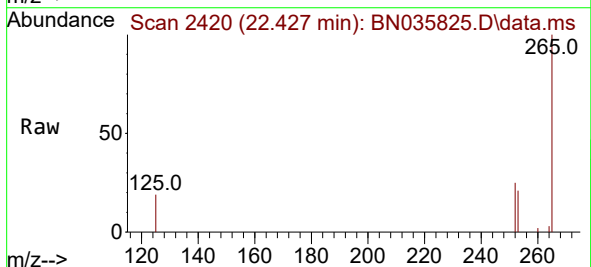
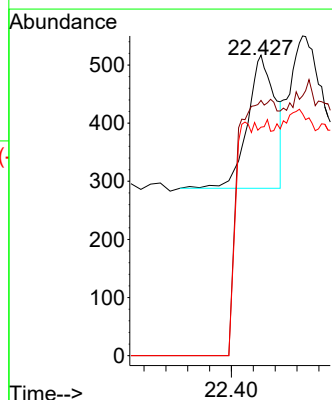
Tgt Ion:252 Resp: 629

Ion Ratio Lower Upper

252 100

253 84.9 19.6 29.4#

125 76.0 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035826.D
 Acq On : 24 Dec 2024 17:53
 Operator : RC/JU
 Sample : P5376-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE117D2-20241218

Quant Time: Dec 24 23:20:19 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)

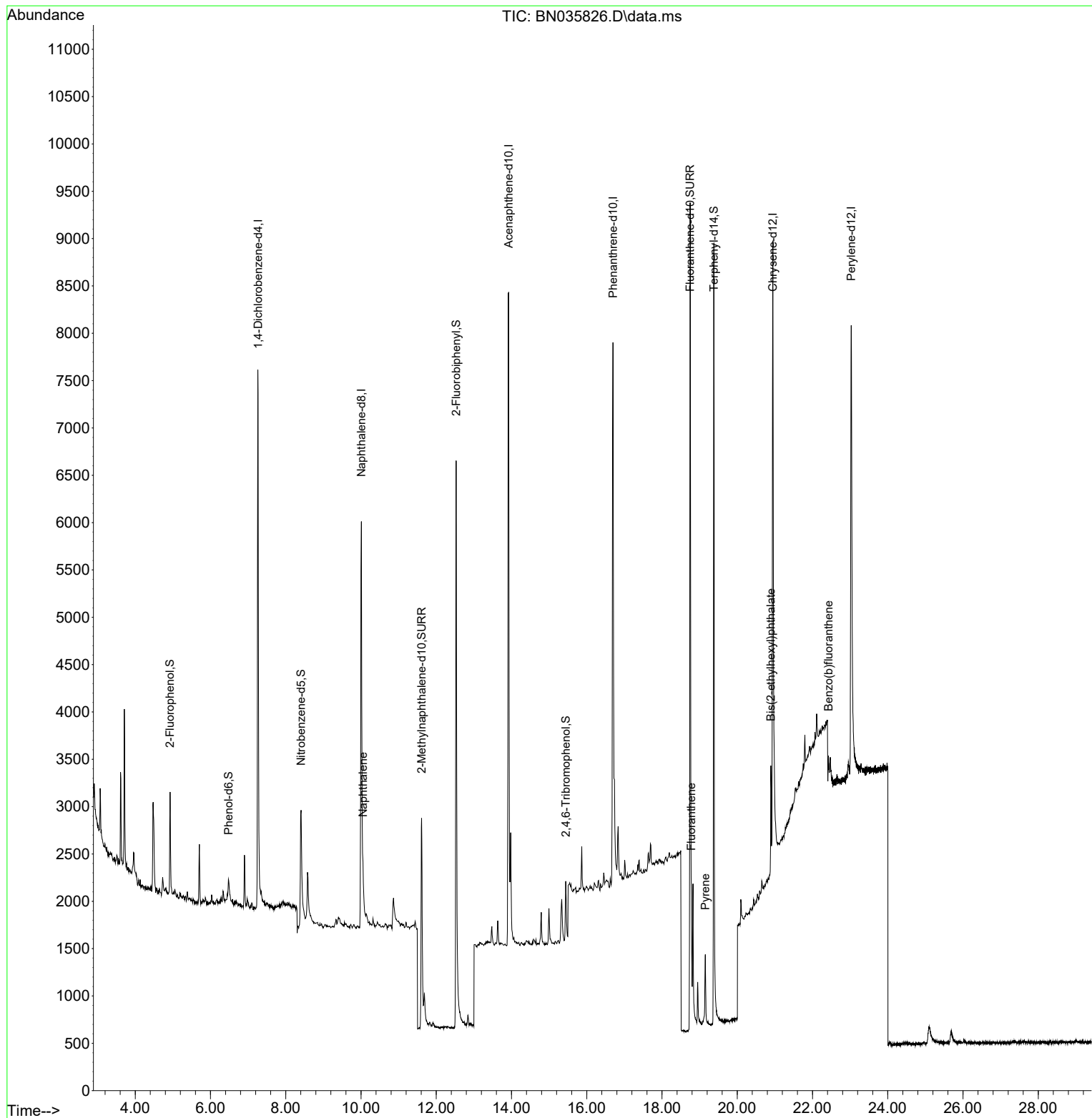
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3378	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7925	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4973	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10383	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8532	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	8295	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	971	0.115	ng	-0.01
5) Phenol-d6	6.477	99	466	0.046	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2915	0.602	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4563	0.368	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	723	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7227	0.384	ng	-0.02
27) Fluoranthene-d10	18.747	212	12295	0.418	ng	-0.01
31) Terphenyl-d14	19.379	244	9489	0.564	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	457	0.022	ng	# 56
28) Fluoranthene	18.780	202	782	0.020	ng	# 95
30) Pyrene	19.151	202	811	0.026	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1313	0.111	ng	93
37) Benzo(b)fluoranthene	22.424	252	720	0.024	ng	# 1

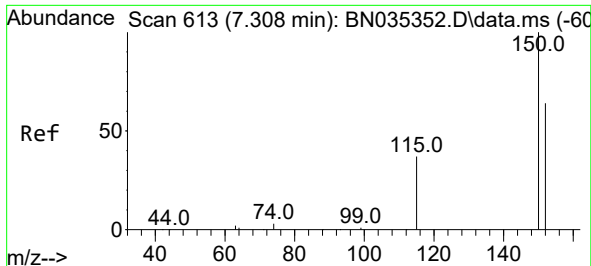
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

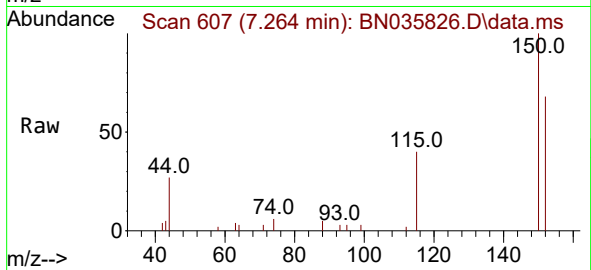
Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



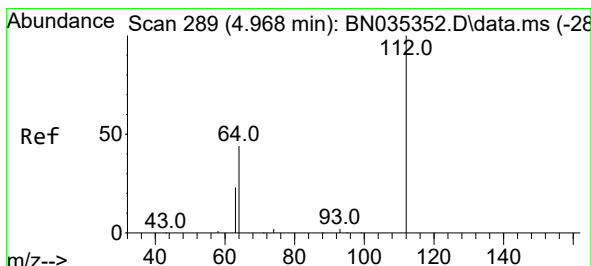
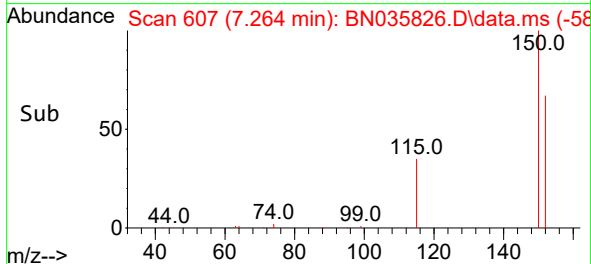
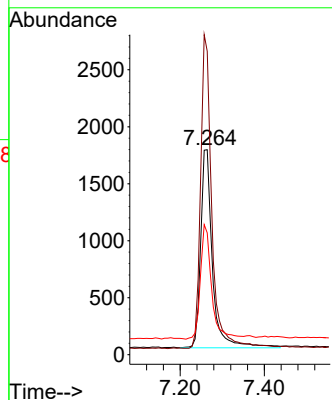


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 613
Delta R.T. -0.008 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

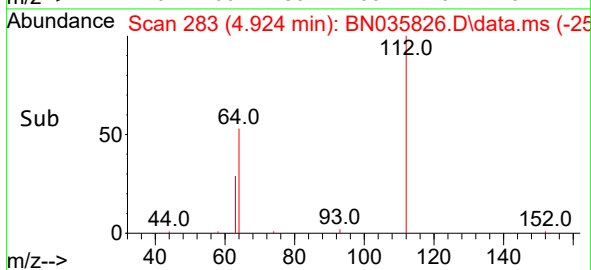
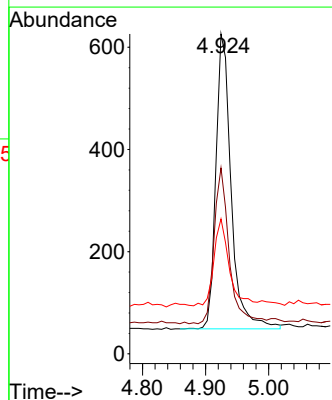
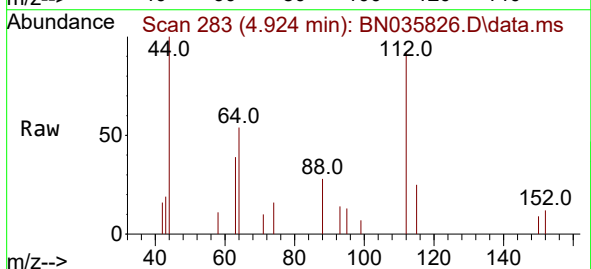


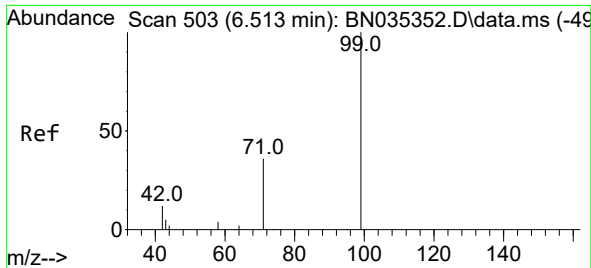
Tgt Ion:152 Resp: 3378
Ion Ratio Lower Upper
152 100
150 148.1 124.0 186.0
115 59.4 49.6 74.4



#4
2-Fluorophenol
Concen: 0.115 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:112 Resp: 971
Ion Ratio Lower Upper
112 100
64 52.3 39.8 59.8
63 29.4 21.0 31.6

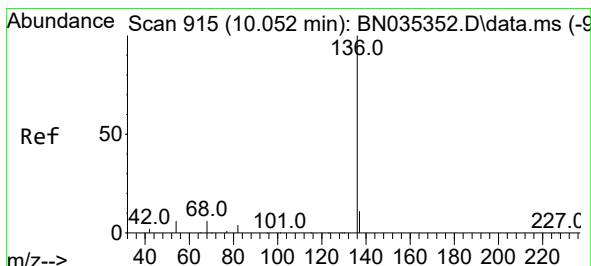
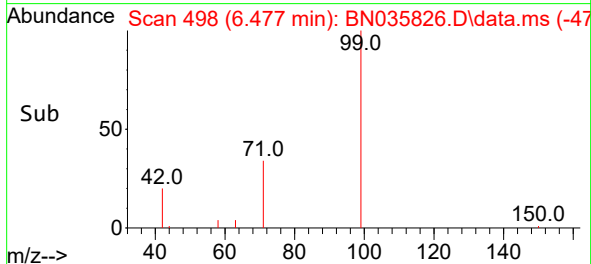
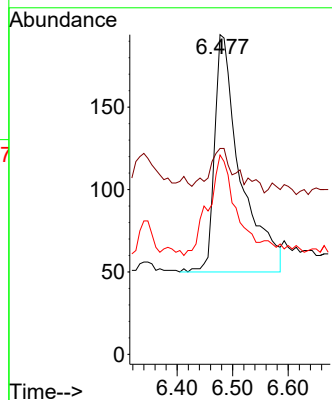
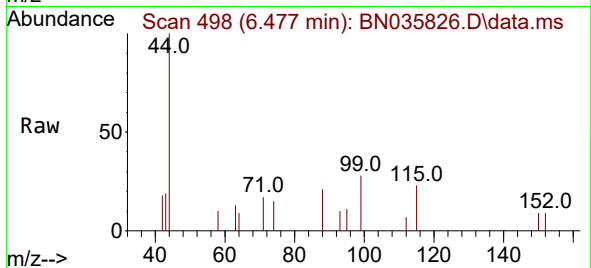




#5
Phenol-d6
Concen: 0.046 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

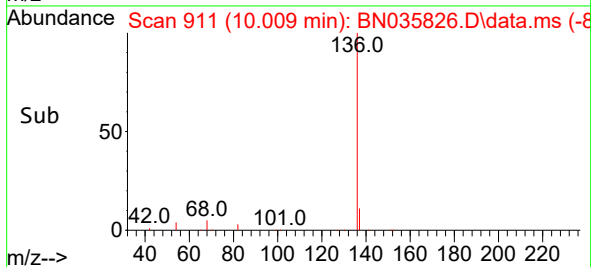
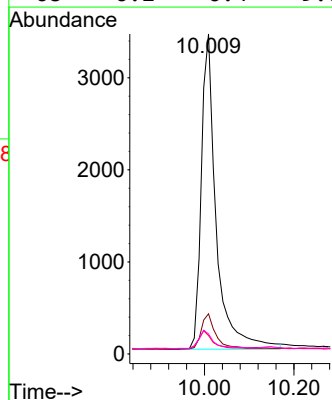
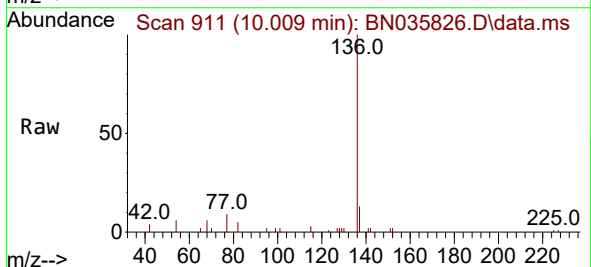
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

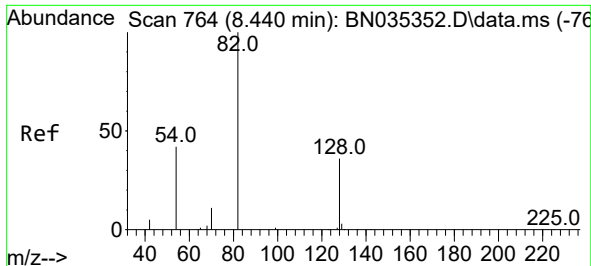
Tgt Ion: 99 Resp: 466
Ion Ratio Lower Upper
99 100
42 20.2 11.4 17.2#
71 44.6 29.3 43.9#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion: 136 Resp: 7925
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 5.8 6.1 9.1#
68 6.2 6.4 9.6#

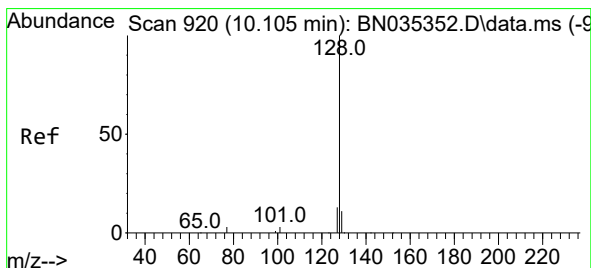
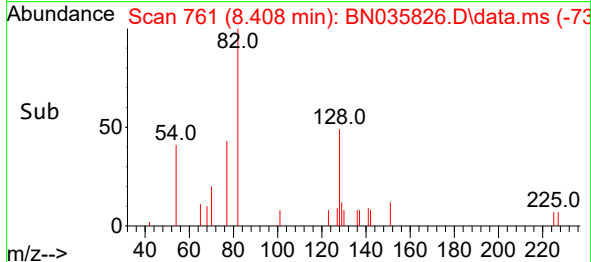
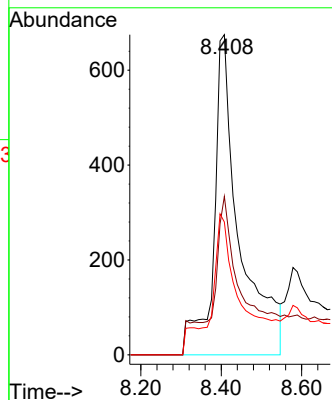
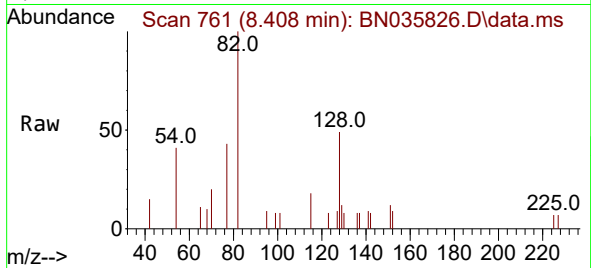




#8
Nitrobenzene-d5
Concen: 0.602 ng
RT: 8.408 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

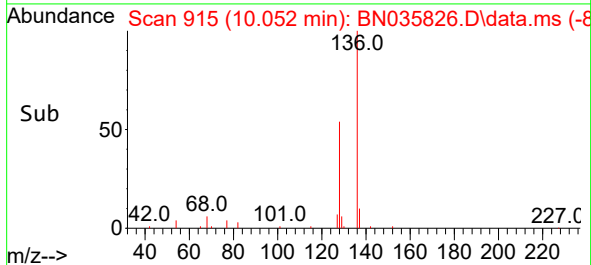
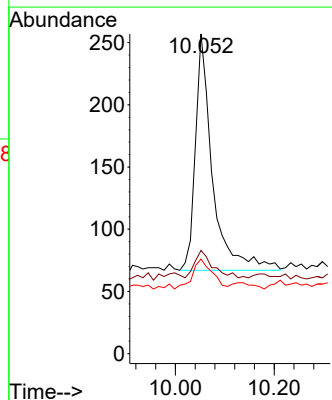
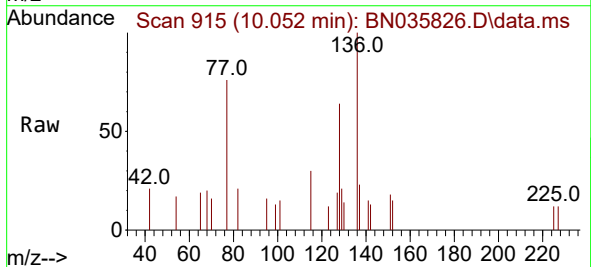
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

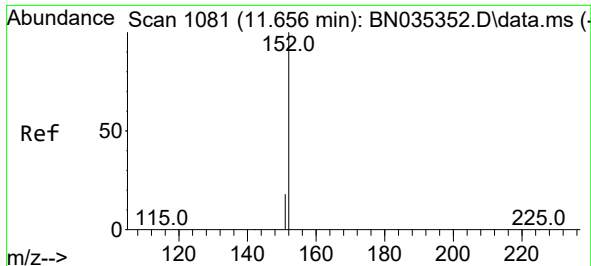
Tgt Ion: 82 Resp: 2915
Ion Ratio Lower Upper
82 100
128 49.5 33.4 50.0
54 41.5 36.7 55.1



#9
Naphthalene
Concen: 0.022 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion: 128 Resp: 457
Ion Ratio Lower Upper
128 100
129 32.3 9.8 14.6#
127 29.6 11.4 17.2#

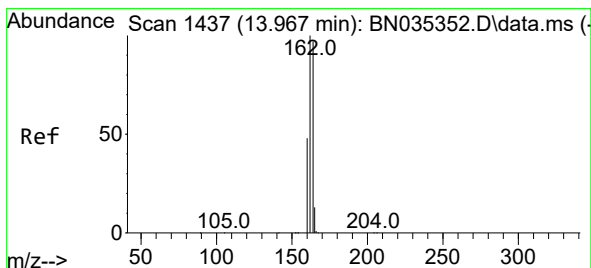
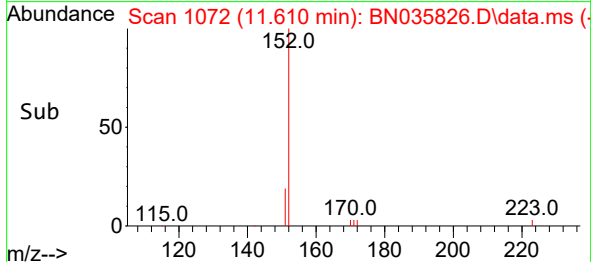
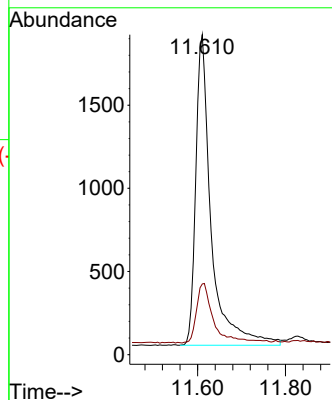
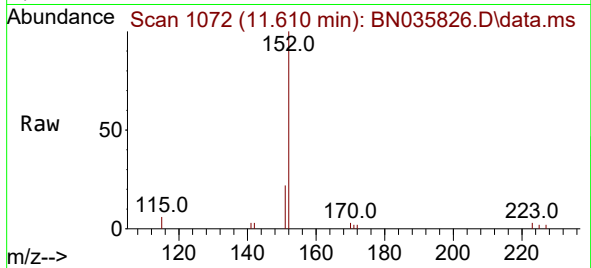




#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.610 min Scan# 1081
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

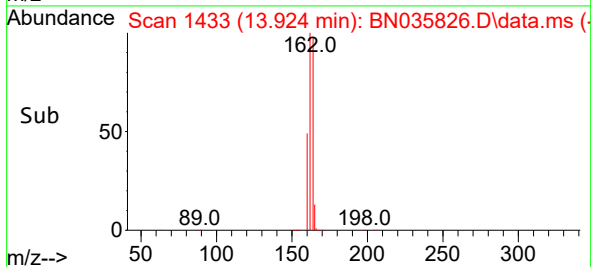
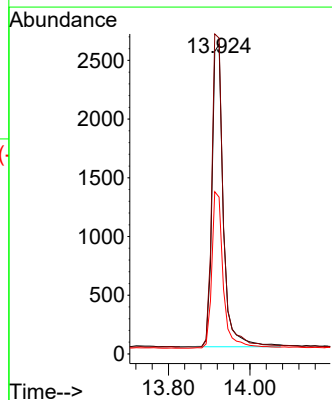
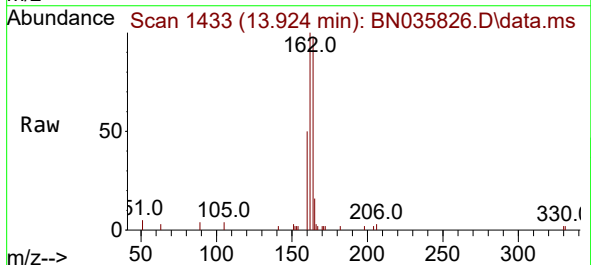
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

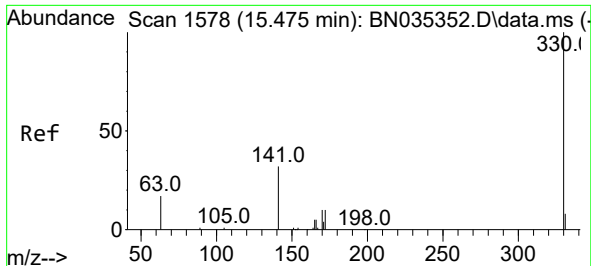
Tgt Ion:152 Resp: 4563
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:164 Resp: 4973
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 50.6 40.1 60.1

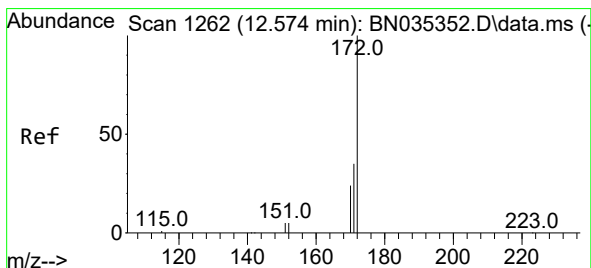
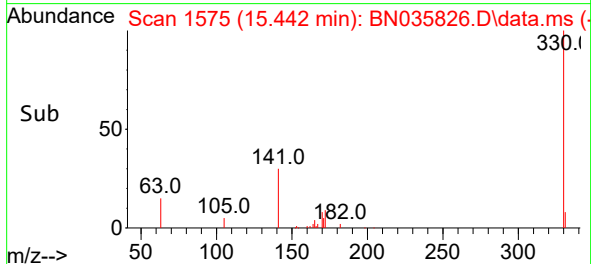
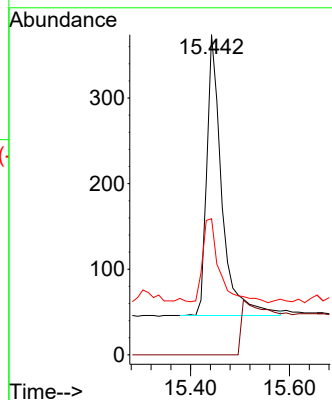
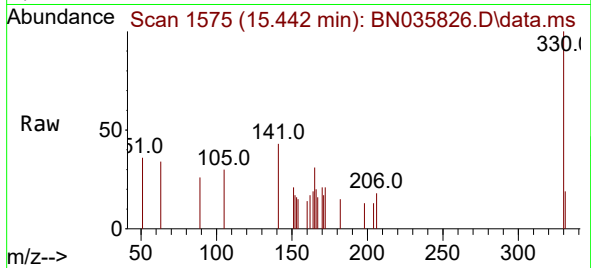




#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.442 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

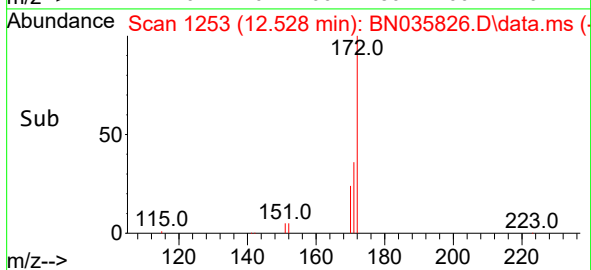
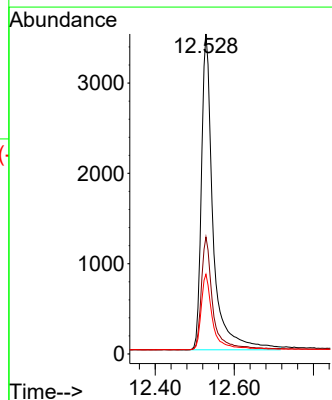
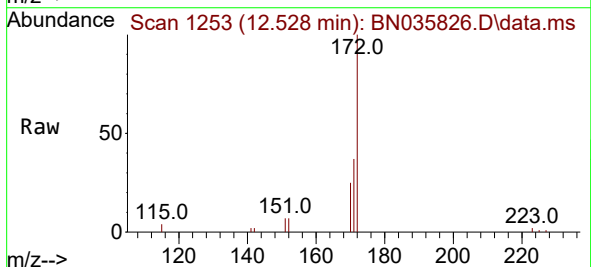
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

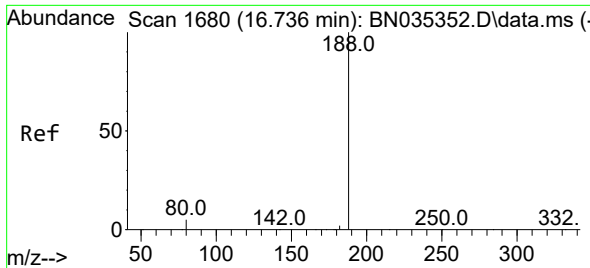
Tgt Ion:330 Resp: 723
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.2 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:172 Resp: 7227
Ion Ratio Lower Upper
172 100
171 36.6 29.0 43.4
170 24.9 19.8 29.8

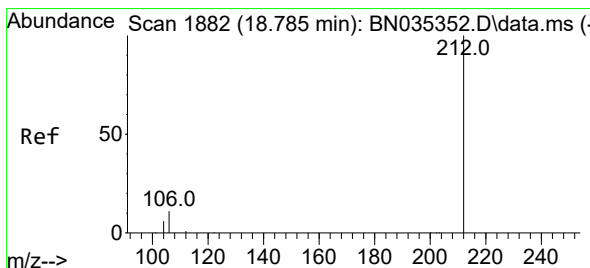
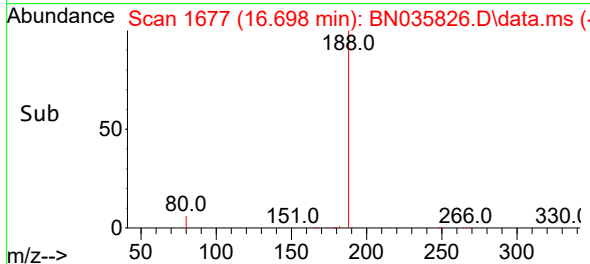
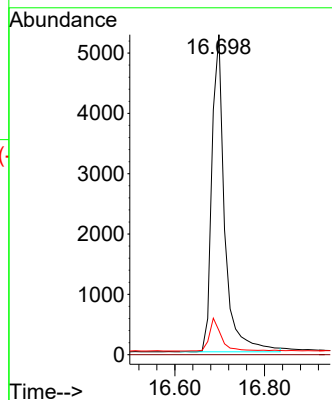
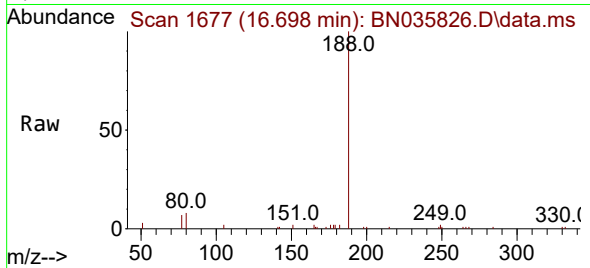




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

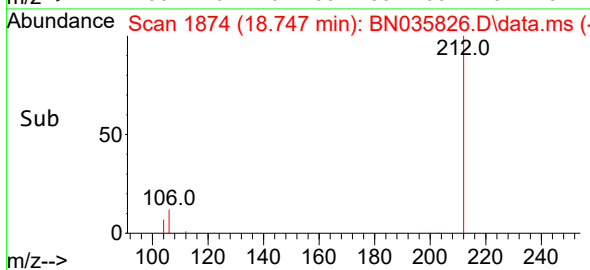
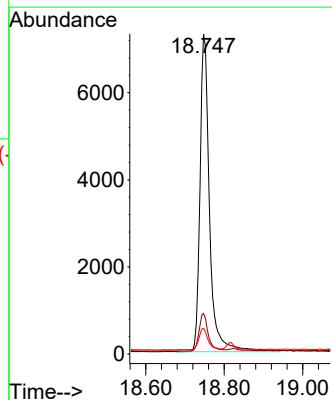
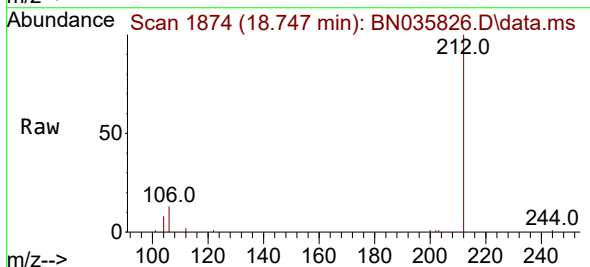
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

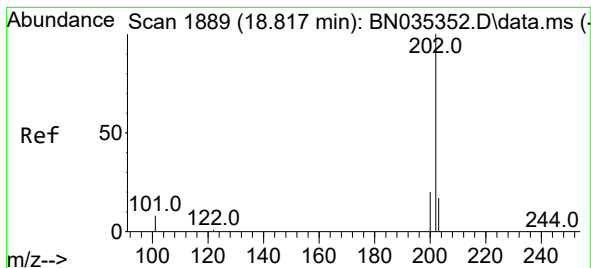
Tgt Ion:188 Resp: 10383
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.6 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:212 Resp: 12295
Ion Ratio Lower Upper
212 100
106 11.2 9.2 13.8
104 6.3 5.3 7.9





#28

Fluoranthene

Concen: 0.020 ng

RT: 18.780 min Scan# 11

Delta R.T. -0.010 min

Lab File: BN035826.D

Acq: 24 Dec 2024 17:53

Instrument :

BNA_N

ClientSampleId :

RE117D2-20241218

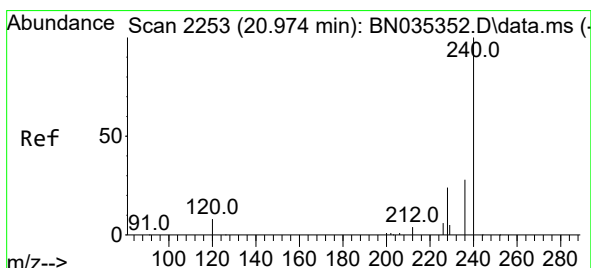
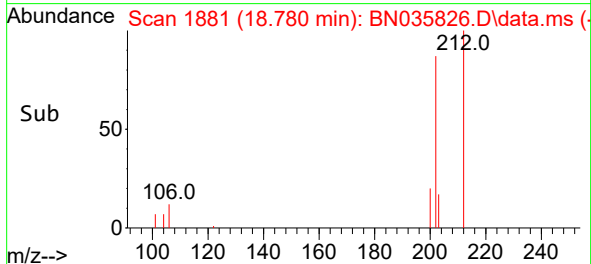
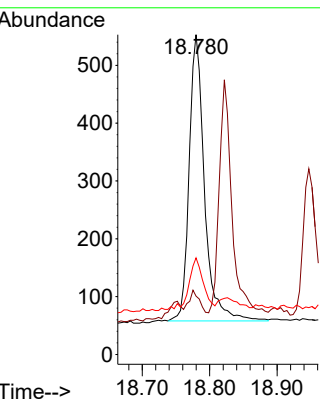
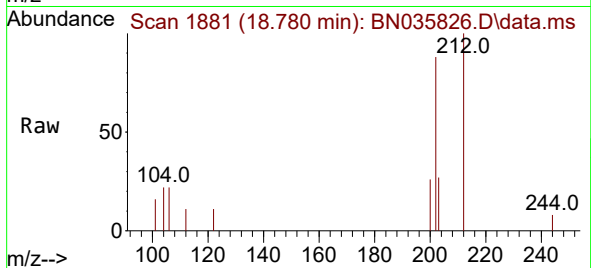
Tgt Ion:202 Resp: 782

Ion Ratio Lower Upper

202 100

101 5.5 7.4 11.0#

203 18.2 13.7 20.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN035826.D

Acq: 24 Dec 2024 17:53

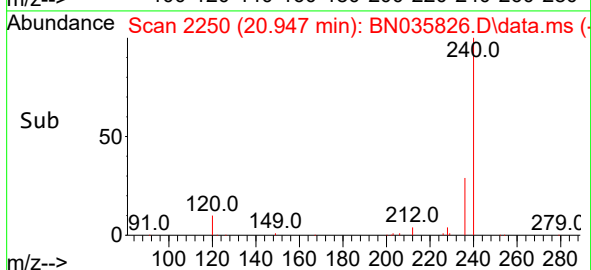
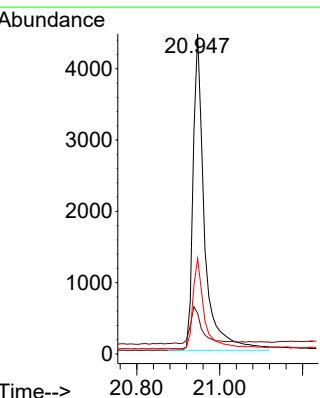
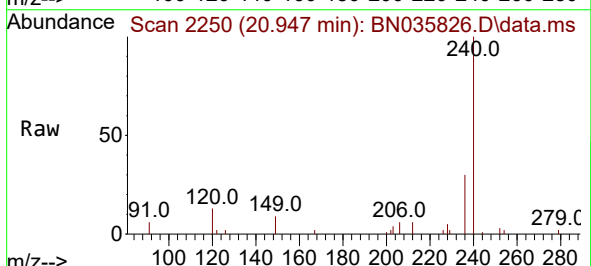
Tgt Ion:240 Resp: 8532

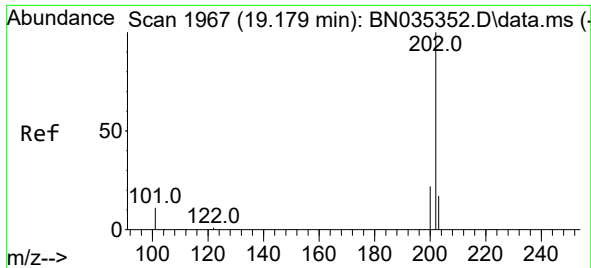
Ion Ratio Lower Upper

240 100

120 12.7 7.9 11.9#

236 29.8 22.9 34.3

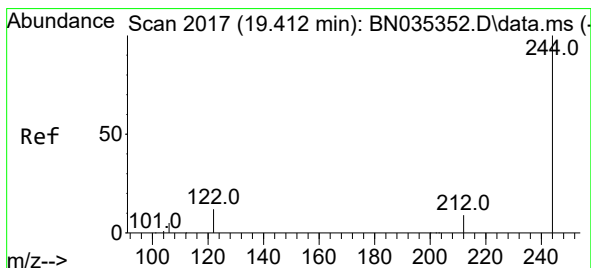
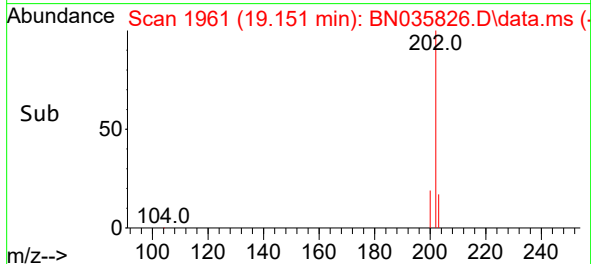
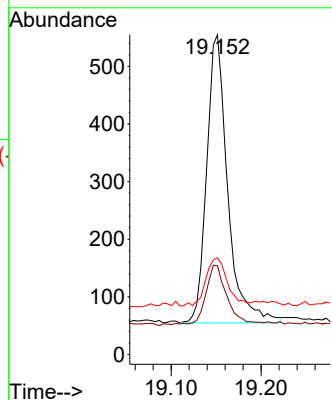
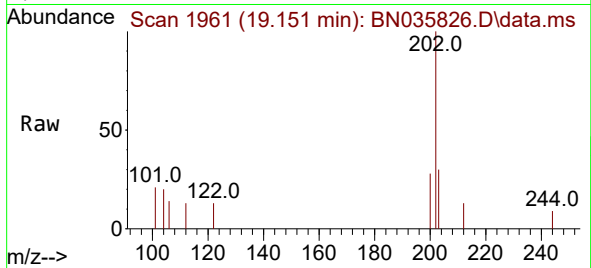




#30
Pyrene
Concen: 0.026 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

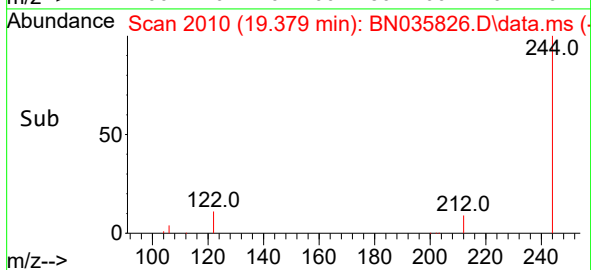
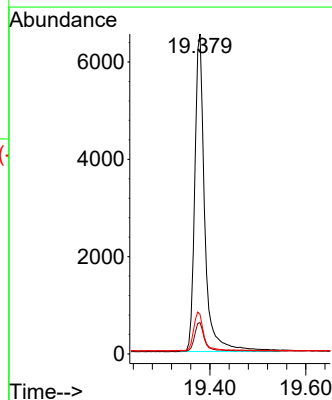
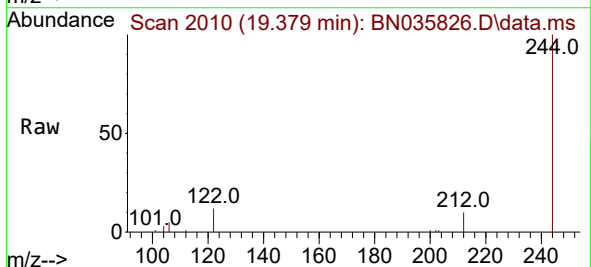
Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

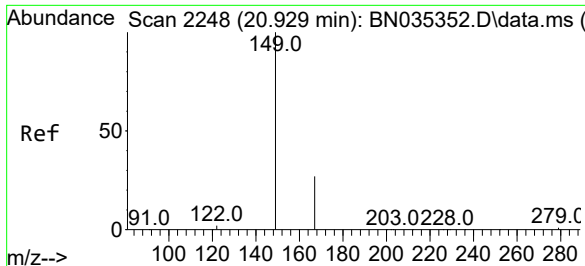
Tgt Ion:202 Resp: 811
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.4
203 16.8 14.3 21.5



#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:244 Resp: 9489
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 12.3 10.3 15.5

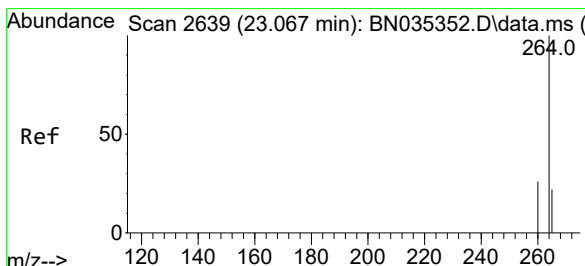
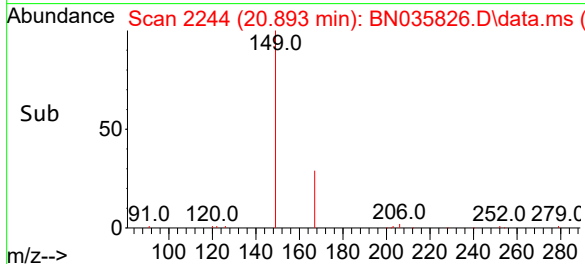
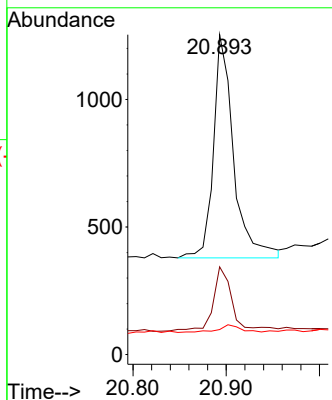
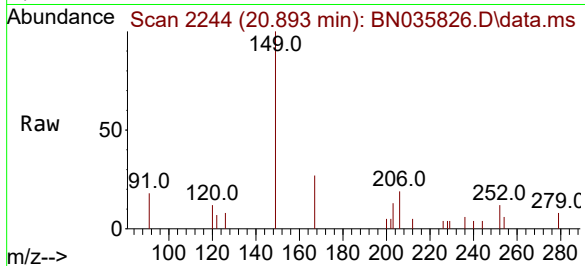




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.111 ng
 RT: 20.893 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BN035826.D
 Acq: 24 Dec 2024 17:53

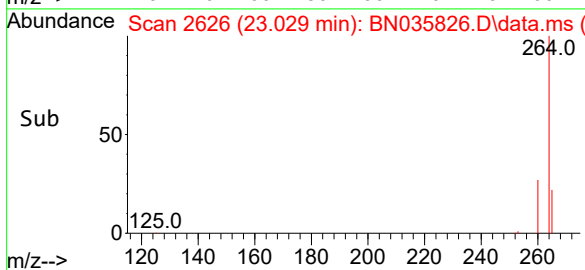
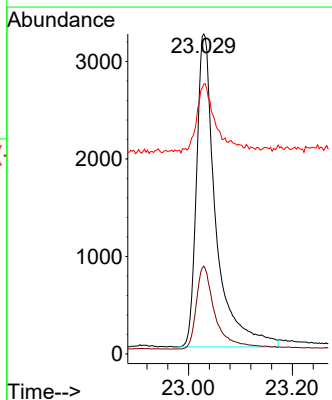
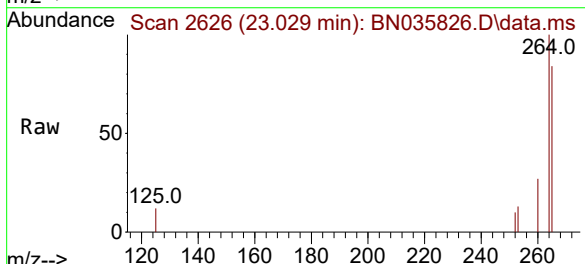
Instrument :
 BNA_N
 ClientSampleId :
 RE117D2-20241218

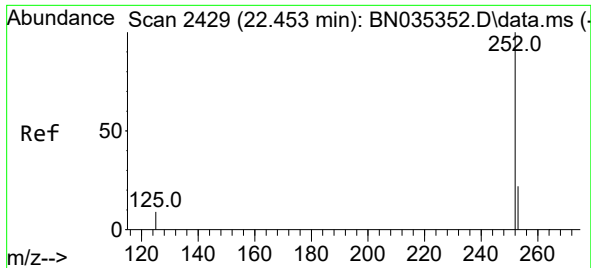
Tgt Ion:149 Resp: 1313
 Ion Ratio Lower Upper
 149 100
 167 23.5 22.2 33.4
 279 3.8 2.7 4.1



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.029 min Scan# 2626
 Delta R.T. -0.012 min
 Lab File: BN035826.D
 Acq: 24 Dec 2024 17:53

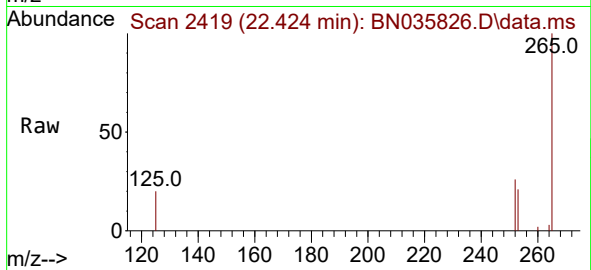
Tgt Ion:264 Resp: 8295
 Ion Ratio Lower Upper
 264 100
 260 27.5 21.4 32.2
 265 84.4 40.2 60.4#



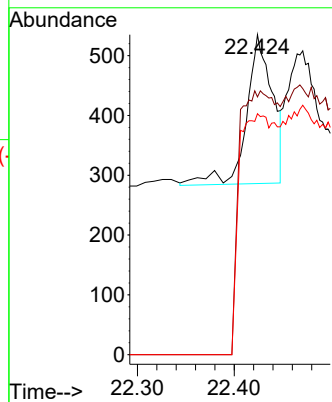
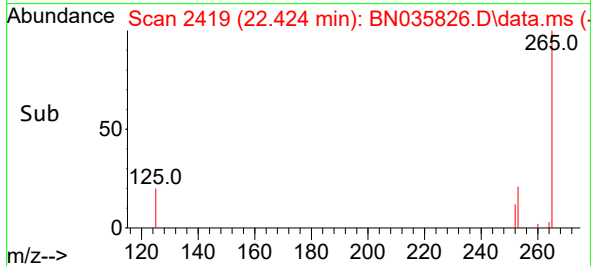


#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218



Tgt Ion:252 Resp: 720
Ion Ratio Lower Upper
252 100
253 80.6 19.6 29.4#
125 75.3 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035827.D
 Acq On : 24 Dec 2024 18:29
 Operator : RC/JU
 Sample : P5376-14
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT161S1-20241219

Quant Time: Dec 24 23:20:32 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)

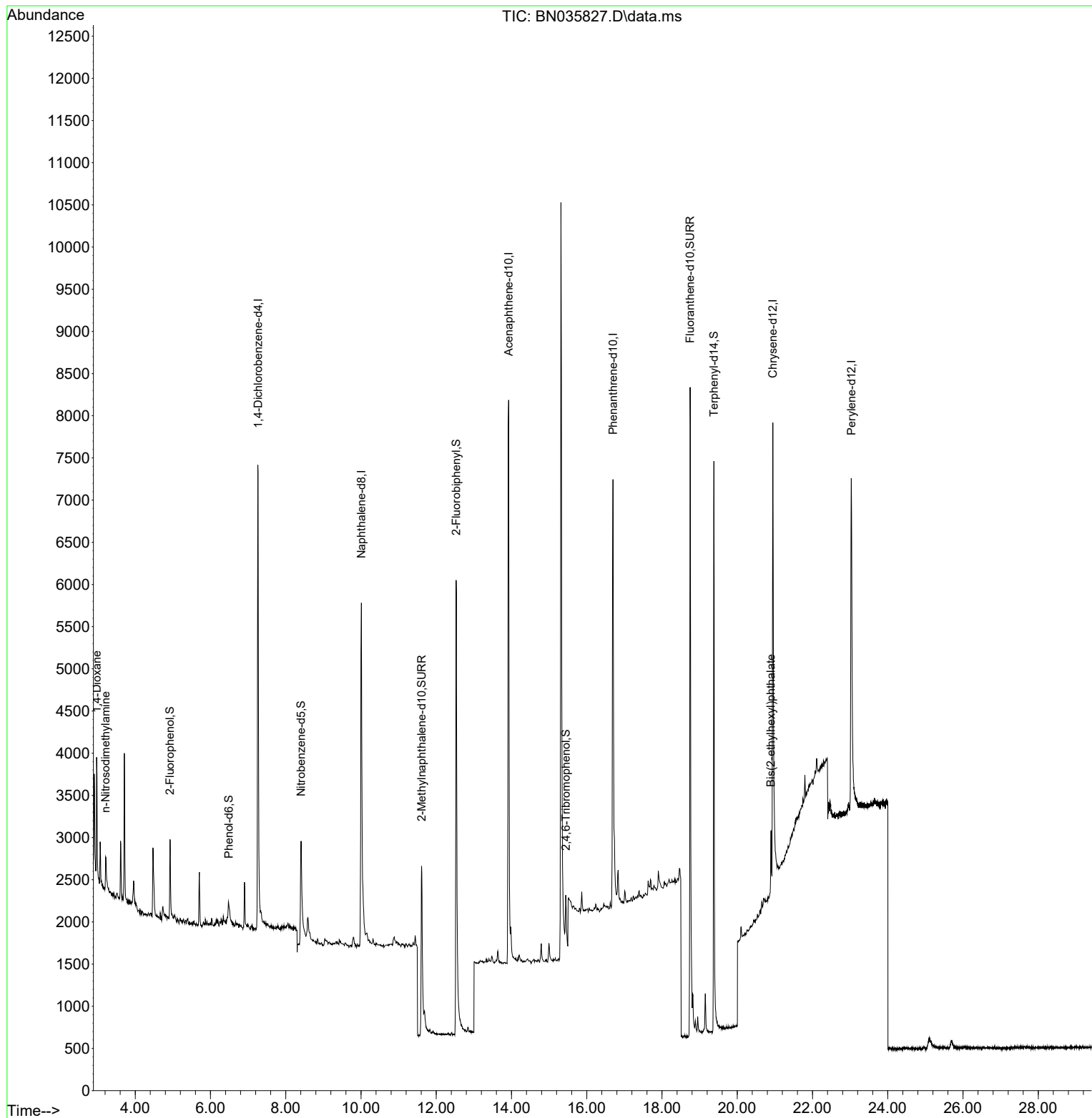
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3265	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7883	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4842	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9395	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7091	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6735	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	907	0.111	ng	-0.01
5) Phenol-d6	6.484	99	487	0.050	ng	0.00
8) Nitrobenzene-d5	8.408	82	2197	0.456	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4487	0.364	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	681	0.198	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7221	0.395	ng	-0.02
27) Fluoranthene-d10	18.747	212	10577	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	7825	0.559	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1019	0.326	ng	# 95
3) n-Nitrosodimethylamine	3.213	42	132	0.051	ng	# 1
34) Bis(2-ethylhexyl)phtha...	20.893	149	896	0.091	ng	# 98

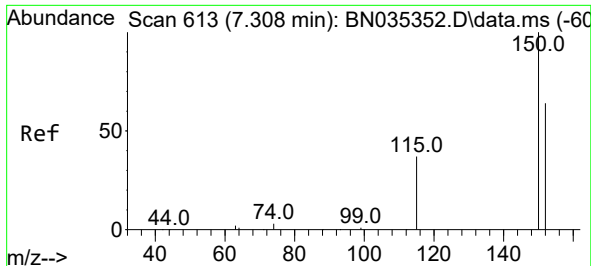
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

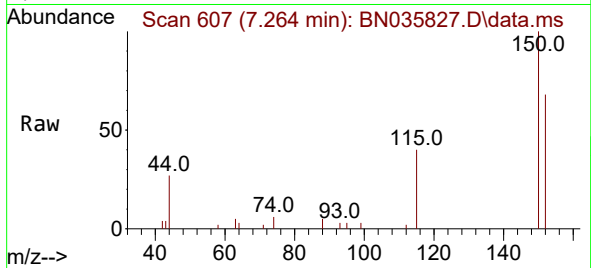
Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



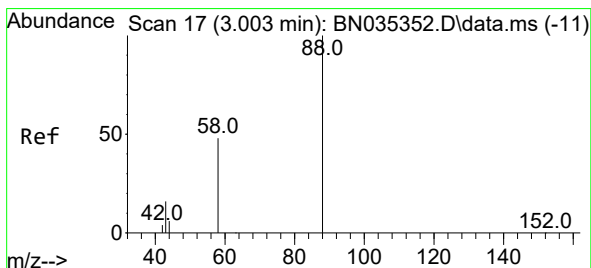
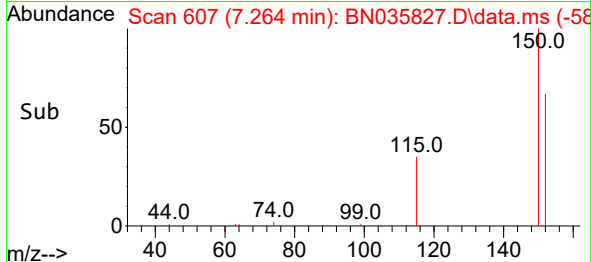
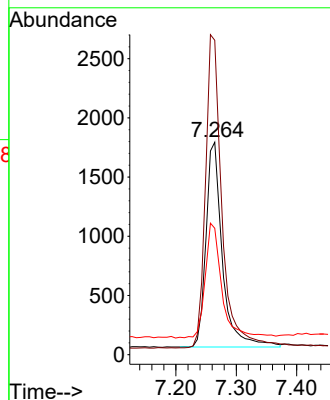


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035827.D
 Acq: 24 Dec 2024 18:29

Instrument :
 BNA_N
 ClientSampleId :
 TT161S1-20241219

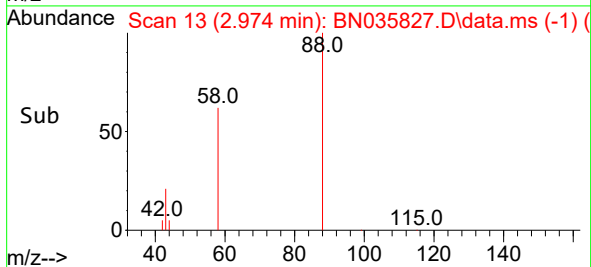
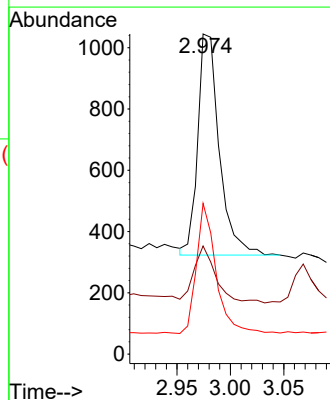
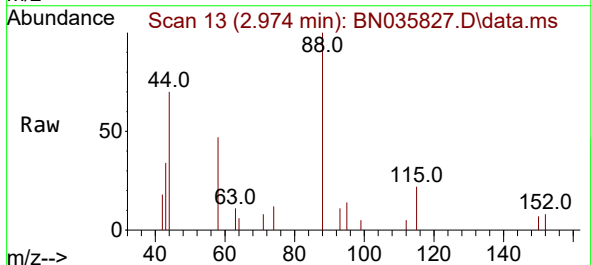


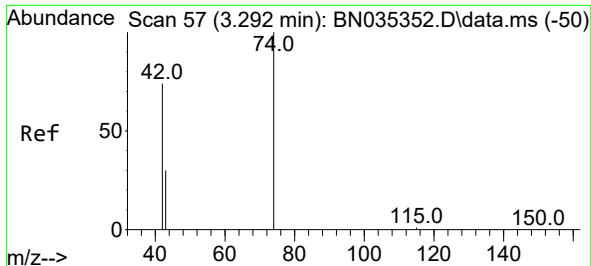
Tgt Ion:152 Resp: 3265
 Ion Ratio Lower Upper
 152 100
 150 148.0 124.0 186.0
 115 59.5 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.326 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035827.D
 Acq: 24 Dec 2024 18:29

Tgt Ion: 88 Resp: 1019
 Ion Ratio Lower Upper
 88 100
 43 26.0 17.2 25.8#
 58 53.1 44.5 66.7

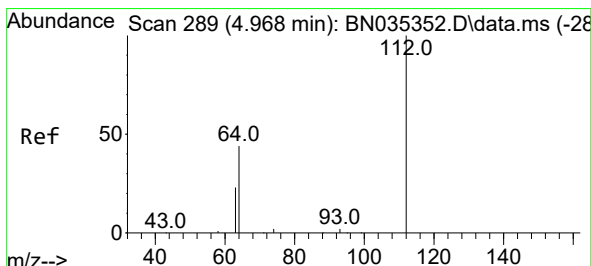
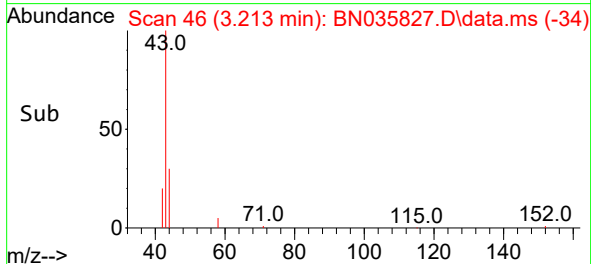
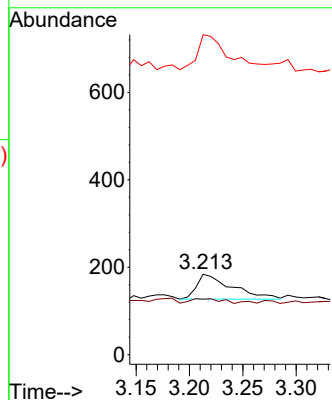
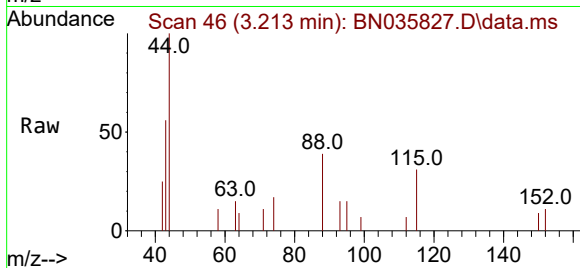




#3
n-Nitrosodimethylamine
Concen: 0.051 ng
RT: 3.213 min Scan# 4
Delta R.T. -0.065 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

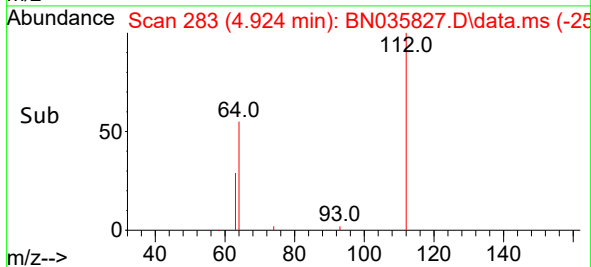
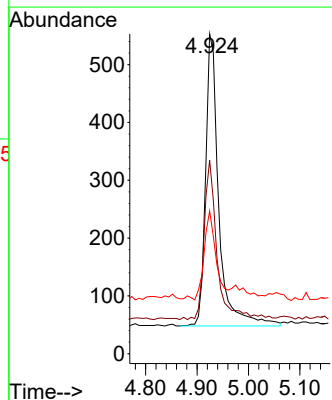
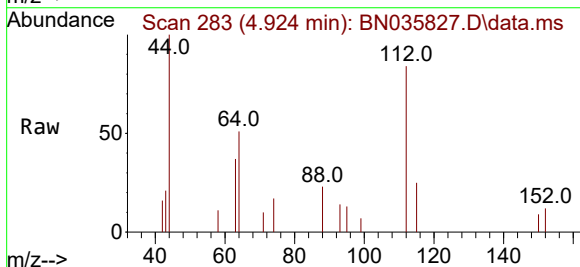
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

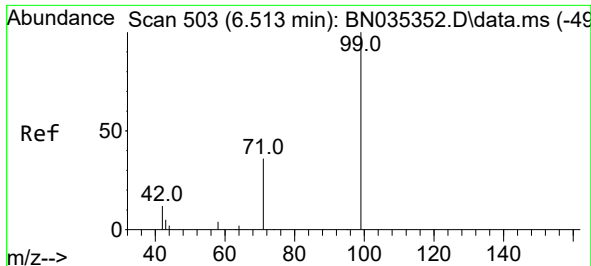
Tgt Ion: 42 Resp: 132
Ion Ratio Lower Upper
42 100
74 15.2 124.9 187.3#
44 120.5 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.111 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 112 Resp: 907
Ion Ratio Lower Upper
112 100
64 53.8 39.8 59.8
63 26.7 21.0 31.6

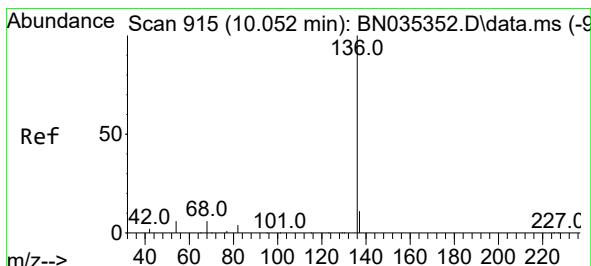
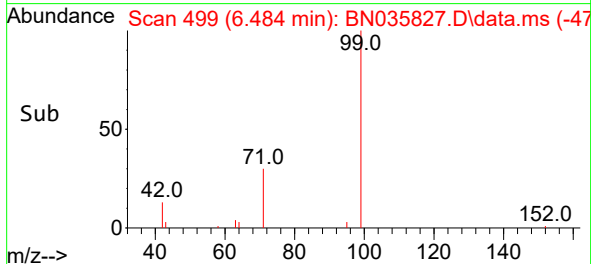
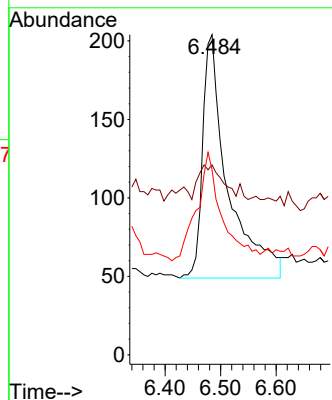
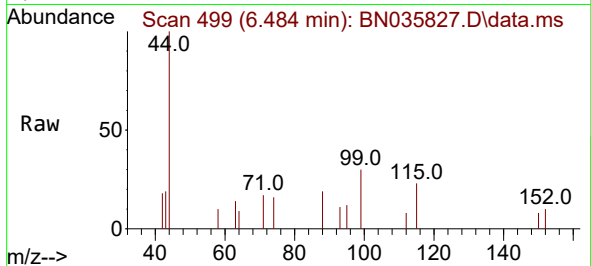




#5
Phenol-d6
Concen: 0.050 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

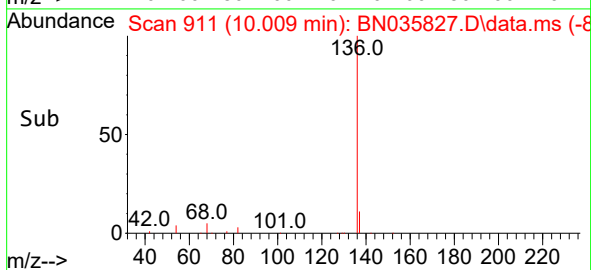
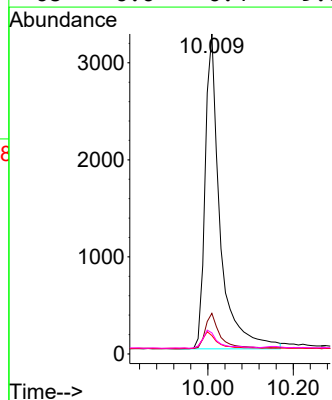
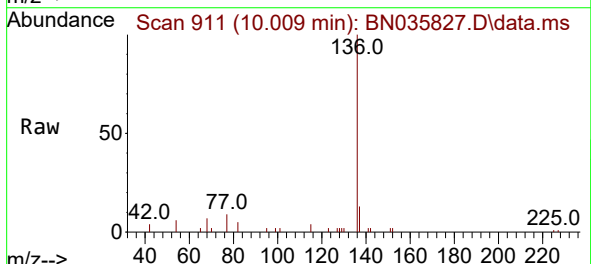
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

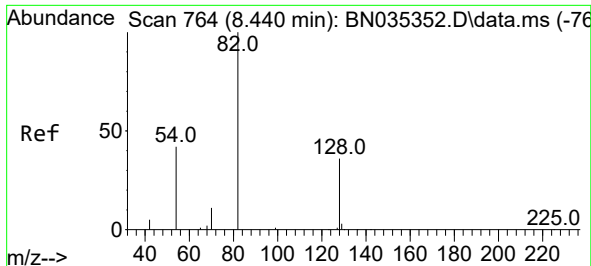
Tgt Ion: 99 Resp: 487
Ion Ratio Lower Upper
99 100
42 13.3 11.4 17.2
71 44.6 29.3 43.9#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 136 Resp: 7883
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 5.7 6.1 9.1#
68 6.6 6.4 9.6

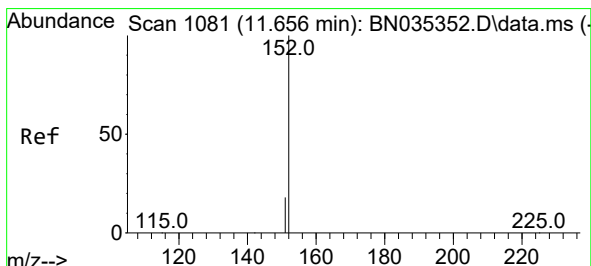
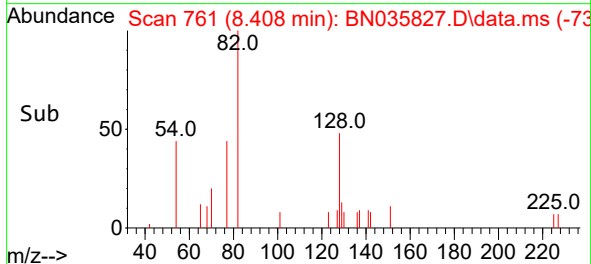
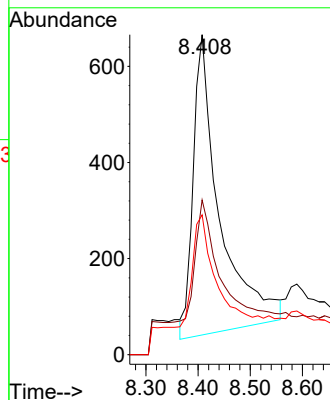
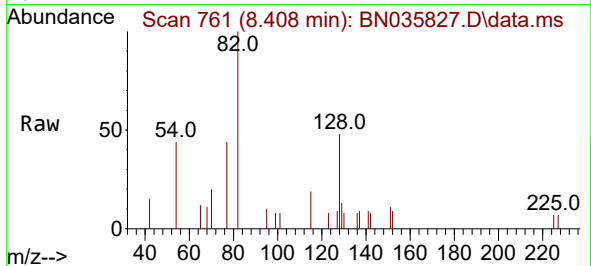




#8
Nitrobenzene-d5
Concen: 0.456 ng
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

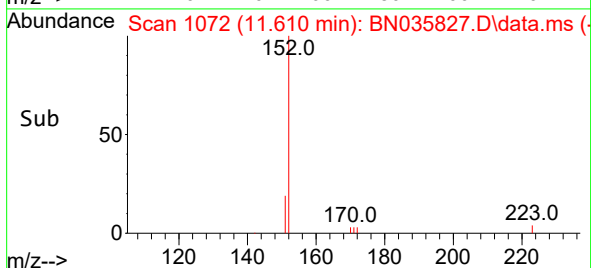
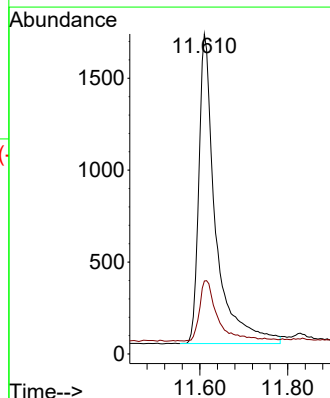
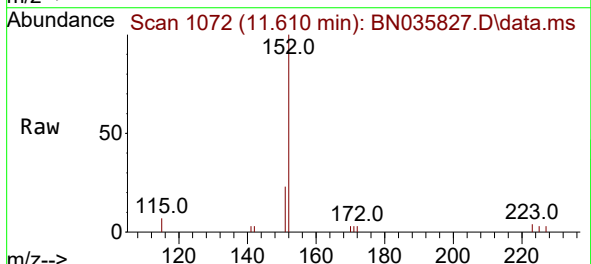
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

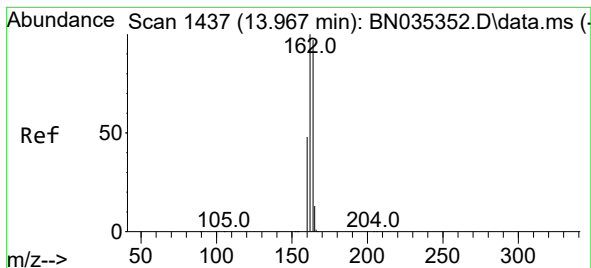
Tgt Ion: 82 Resp: 2197
Ion Ratio Lower Upper
82 100
128 48.3 33.4 50.0
54 43.7 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 4487
Ion Ratio Lower Upper
152 100
151 20.8 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: BN035827.D

Acq: 24 Dec 2024 18:29

Instrument :

BNA_N

ClientSampleId :

TT161S1-20241219

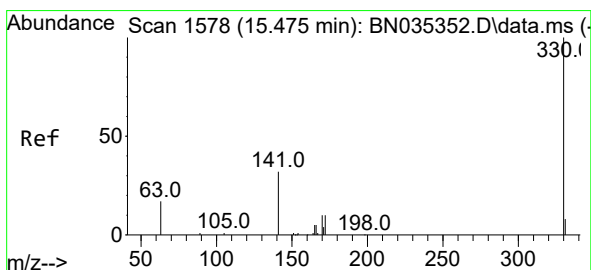
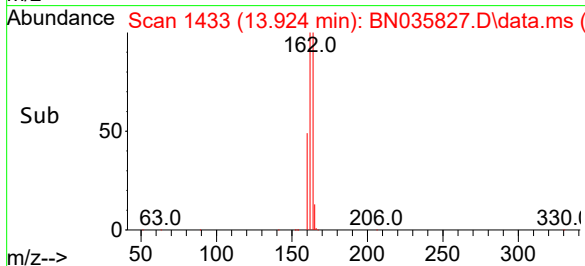
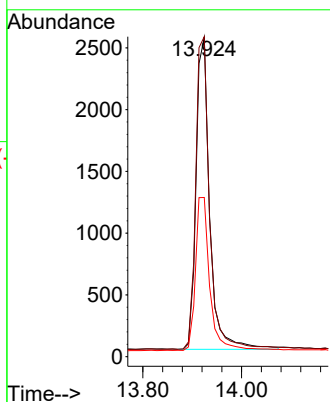
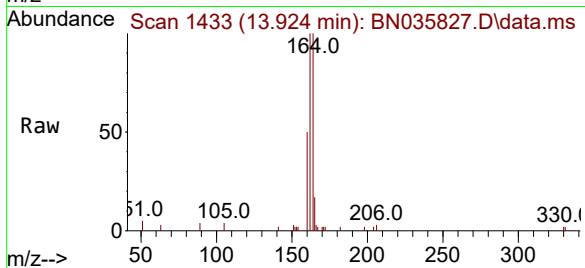
Tgt Ion:164 Resp: 4842

Ion Ratio Lower Upper

164 100

162 100.3 82.2 123.2

160 49.9 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.198 ng

RT: 15.443 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035827.D

Acq: 24 Dec 2024 18:29

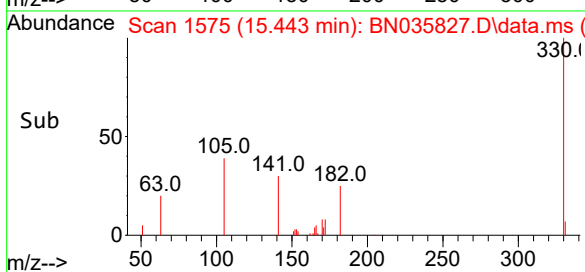
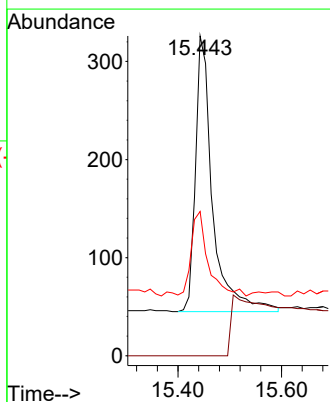
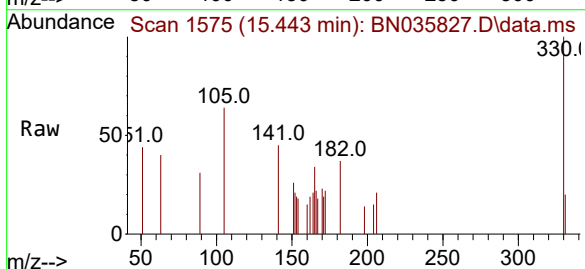
Tgt Ion:330 Resp: 681

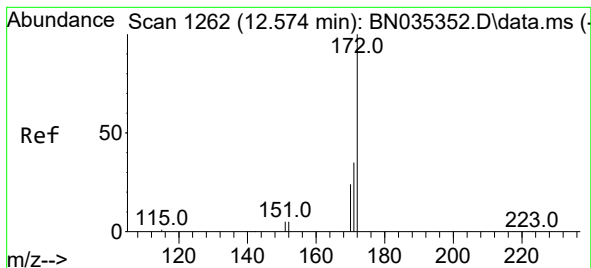
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.8 26.6 40.0

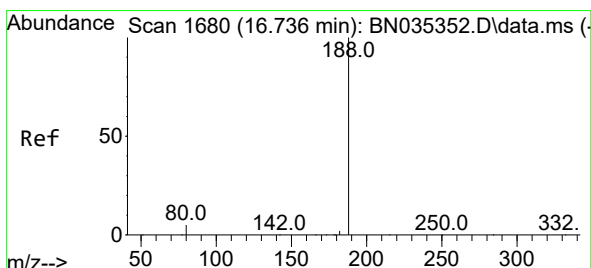
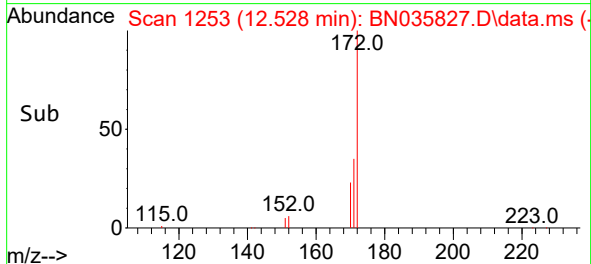
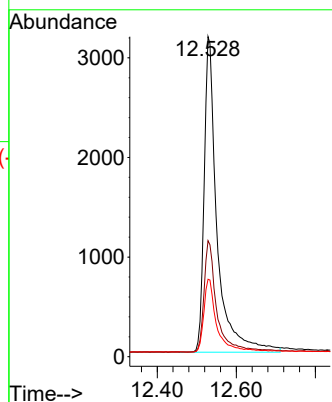
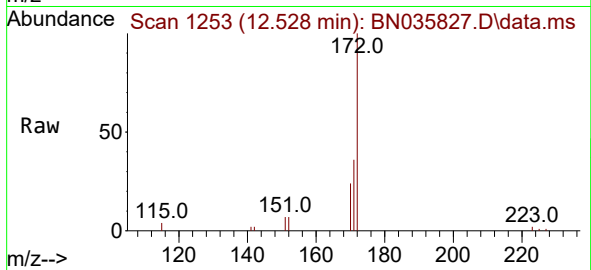




#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

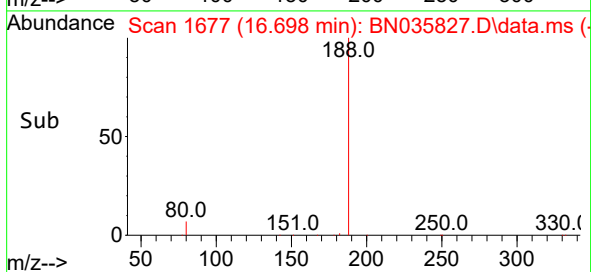
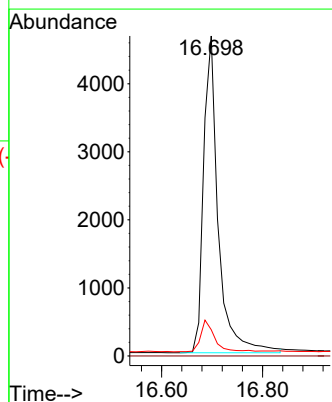
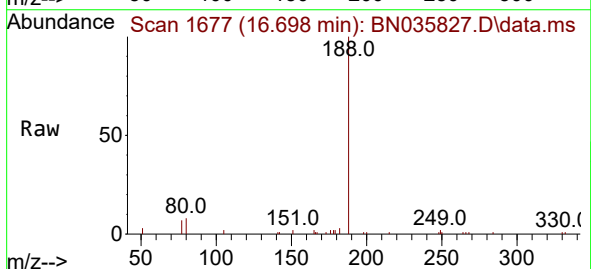
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

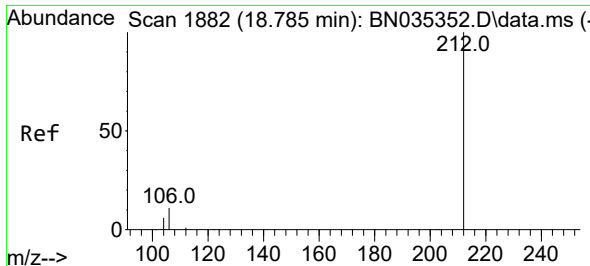
Tgt Ion:172	Resp:	7221
Ion	Ratio	Lower Upper
172	100	
171	36.3	29.0 43.4
170	24.2	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:188	Resp:	9395
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	8.2	4.6 6.8

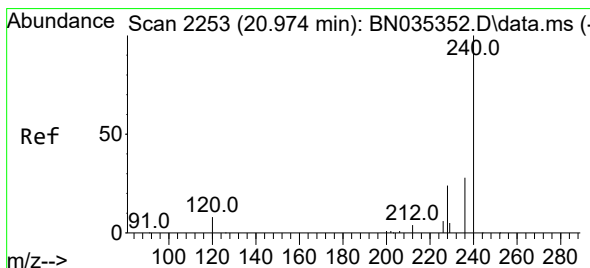
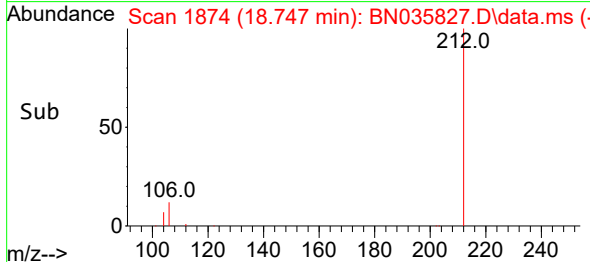
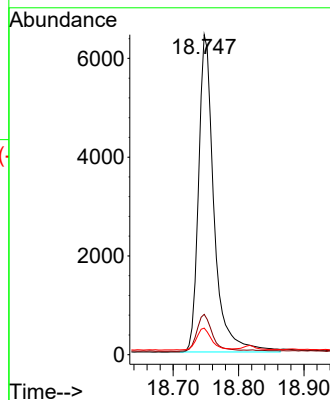
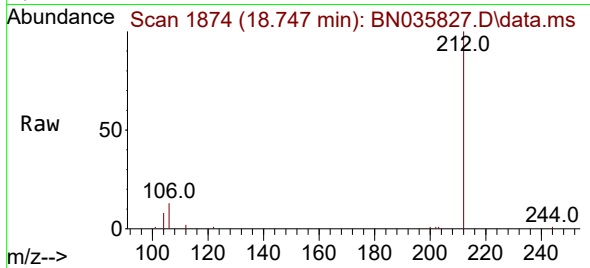




#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 11
Delta R.T. -0.014 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

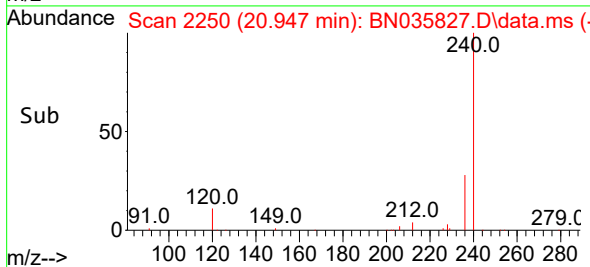
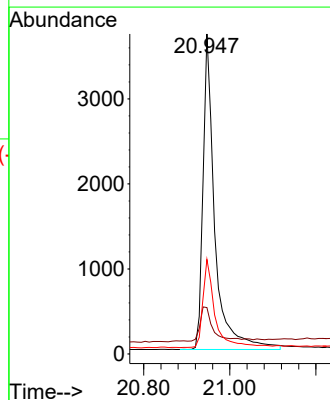
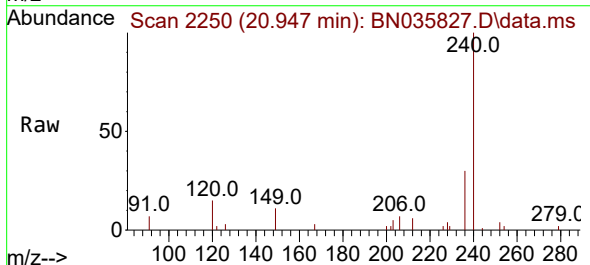
Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

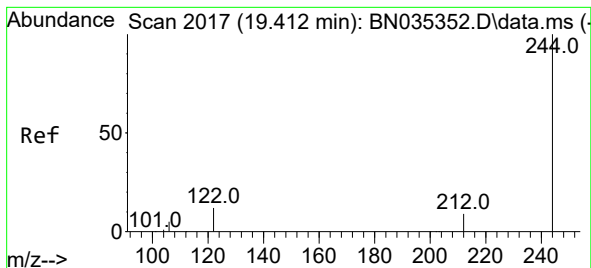
Tgt Ion:212 Resp: 10577
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 6.7 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:240 Resp: 7091
Ion Ratio Lower Upper
240 100
120 14.5 7.9 11.9#
236 29.6 22.9 34.3





#31

Terphenyl-d14

Concen: 0.559 ng

RT: 19.379 min Scan# 2010

Delta R.T. -0.009 min

Lab File: BN035827.D

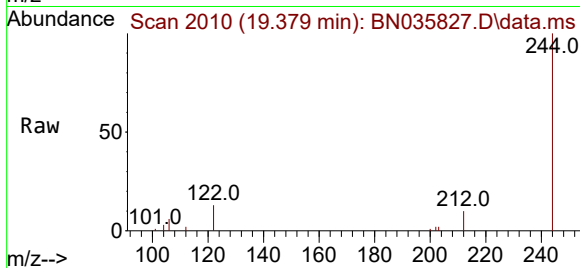
Acq: 24 Dec 2024 18:29

Instrument :

BNA_N

ClientSampleId :

TT161S1-20241219



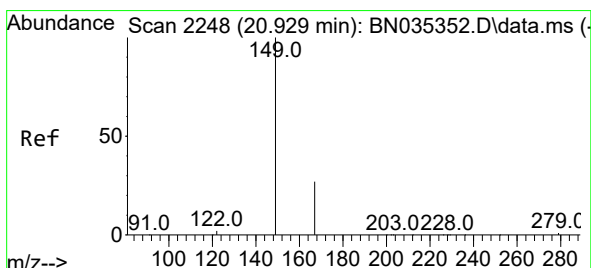
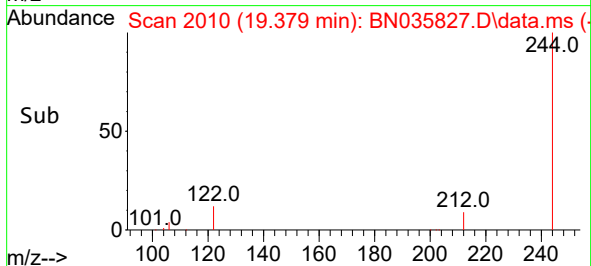
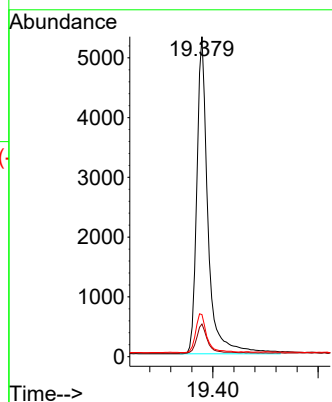
Tgt Ion:244 Resp: 7825

Ion Ratio Lower Upper

244 100

212 10.2 8.1 12.1

122 13.1 10.3 15.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.091 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035827.D

Acq: 24 Dec 2024 18:29

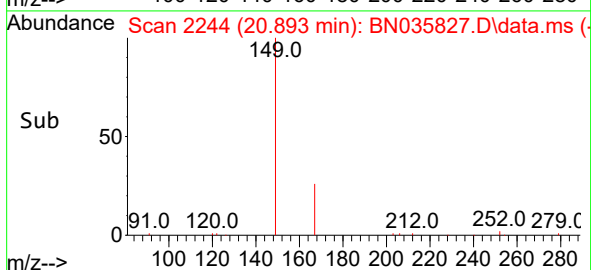
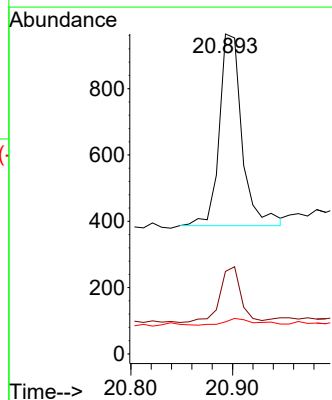
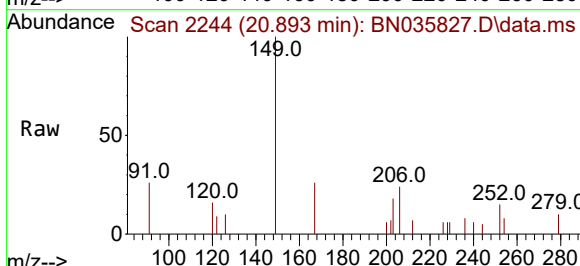
Tgt Ion:149 Resp: 896

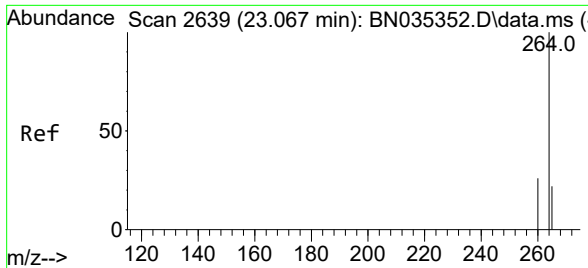
Ion Ratio Lower Upper

149 100

167 26.8 22.2 33.4

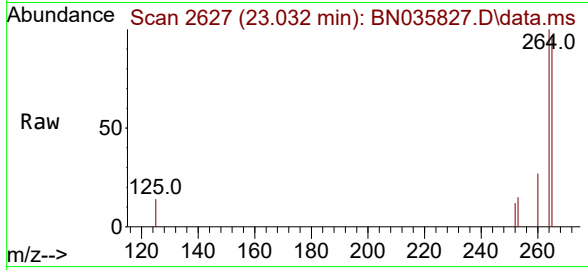
279 4.6 2.7 4.1#





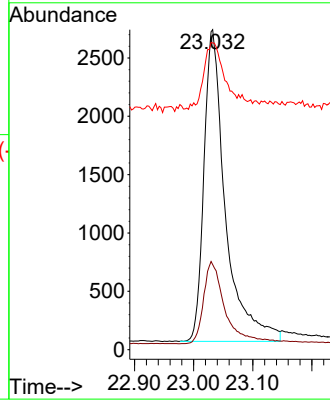
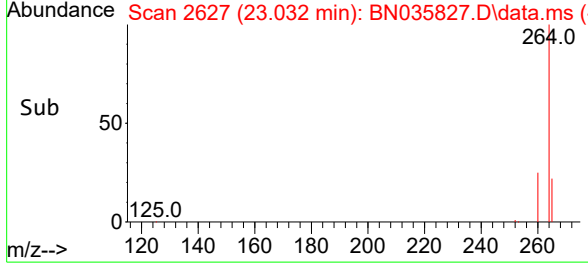
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.032 min Scan# 20
 Delta R.T. -0.009 min
 Lab File: BN035827.D
 Acq: 24 Dec 2024 18:29

Instrument :
 BNA_N
 ClientSampleId :
 TT161S1-20241219



Tgt Ion:264 Resp: 6735

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	95.8	40.2	60.4



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

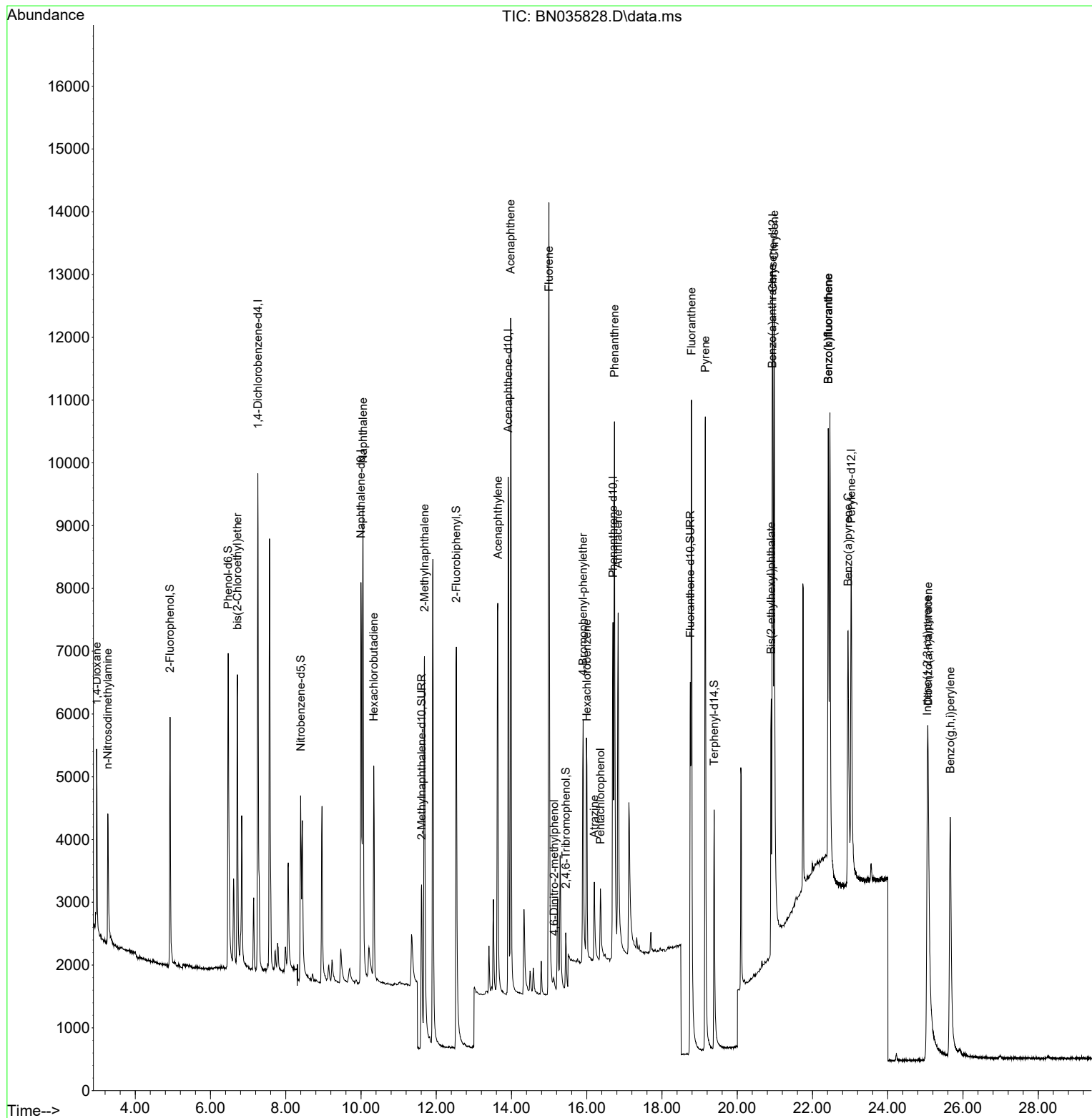
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400	ng	-0.02
7) Naphthalene-d8	9.998	136	9840	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400	ng	# 0.00
29) Chrysene-d12	20.947	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						
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

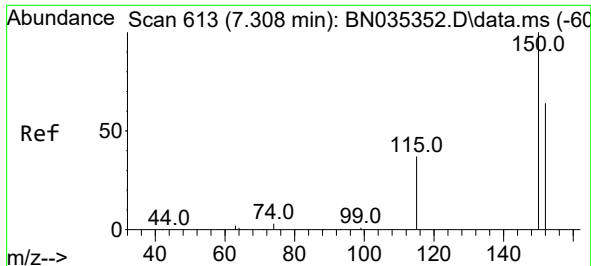
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

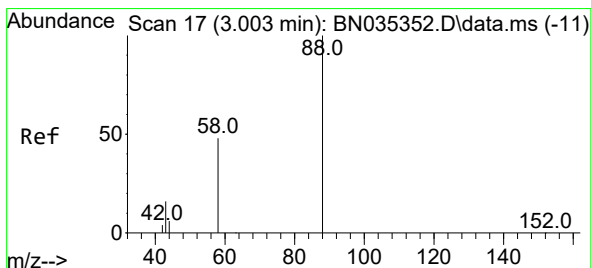
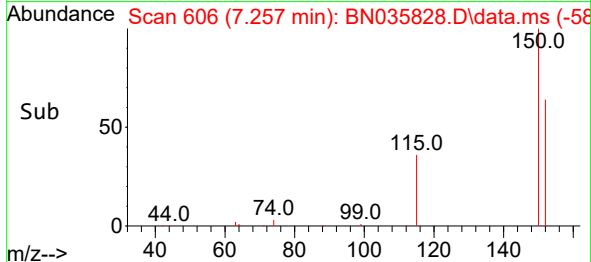
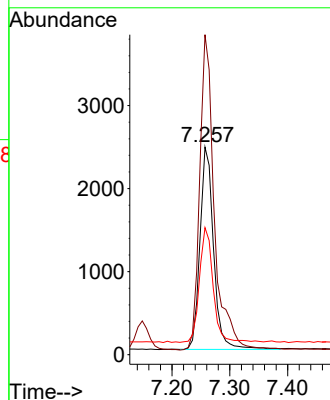
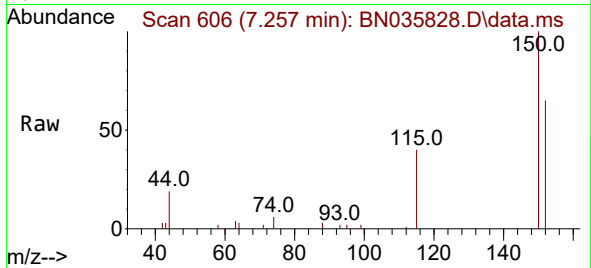




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

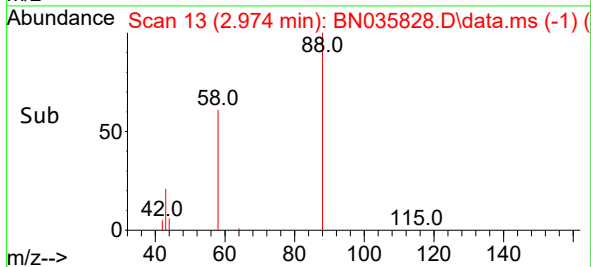
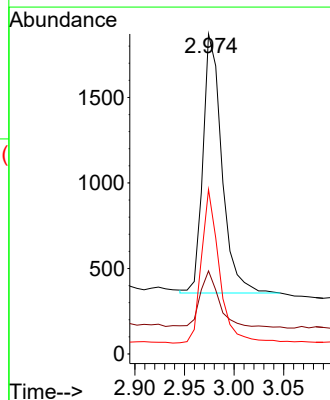
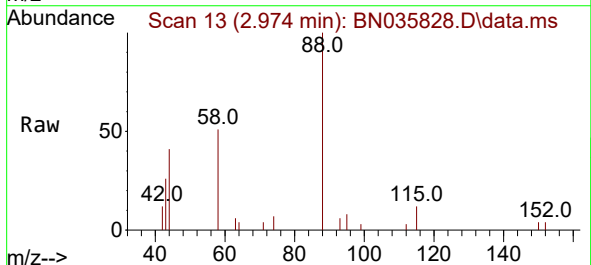
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

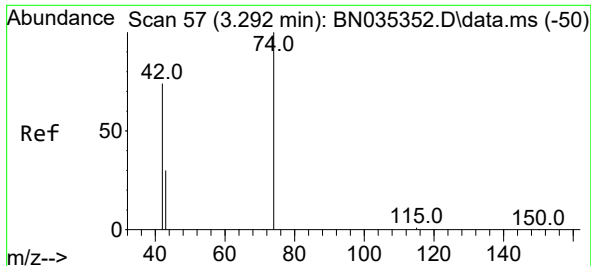
Tgt Ion:152 Resp: 4008
Ion Ratio Lower Upper
152 100
150 154.2 124.0 186.0
115 61.2 49.6 74.4



#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

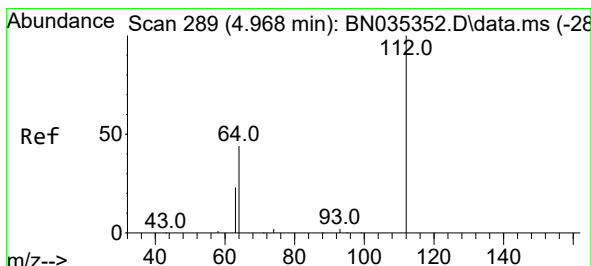
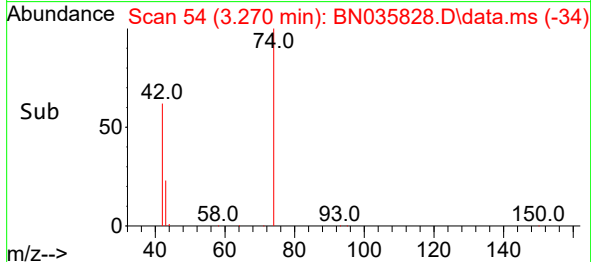
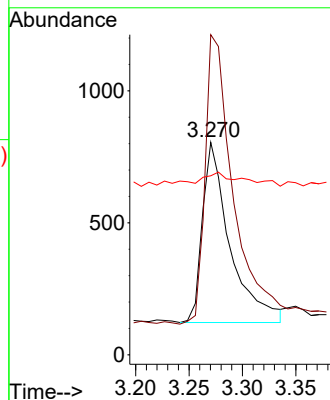
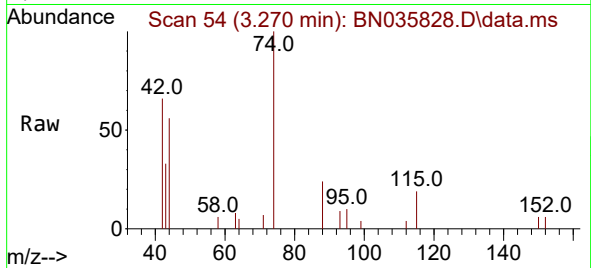




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

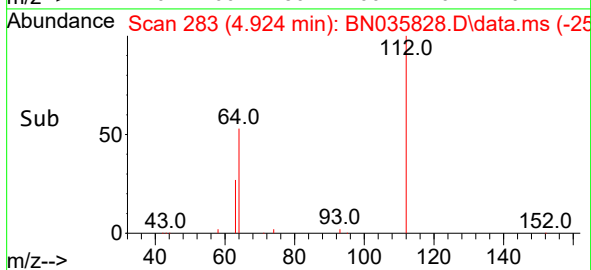
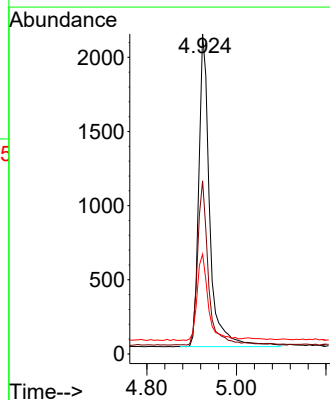
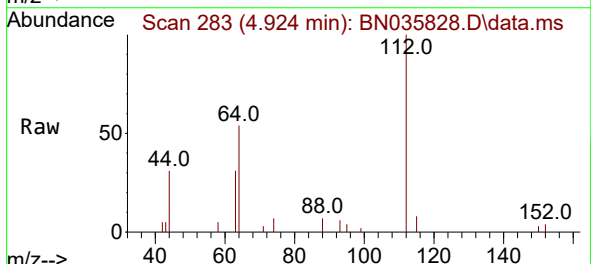
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

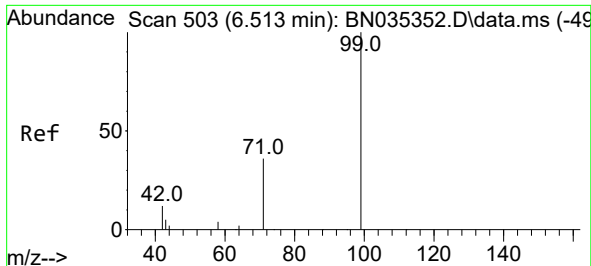
Tgt Ion: 42 Resp: 1227
Ion Ratio Lower Upper
42 100
74 178.7 124.9 187.3
44 14.2 2.2 3.4#



#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# 497

Delta R.T. -0.022 min

Lab File: BN035828.D

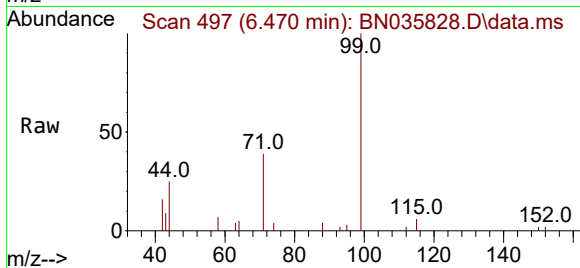
Acq: 24 Dec 2024 19:05

Instrument :

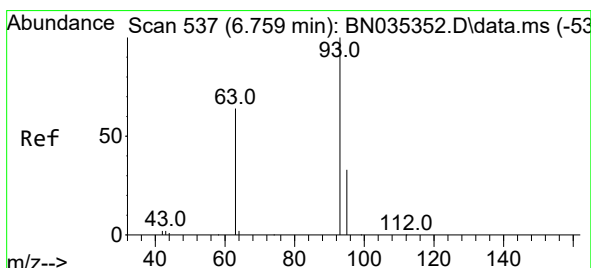
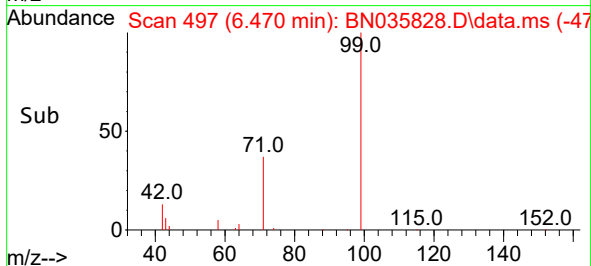
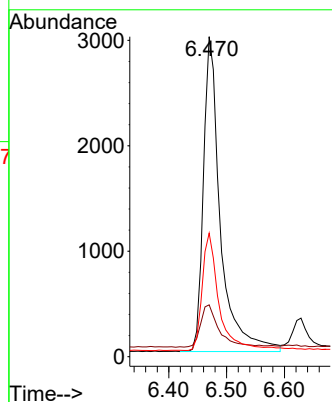
BNA_N

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

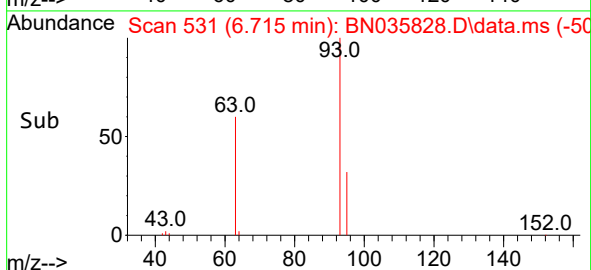
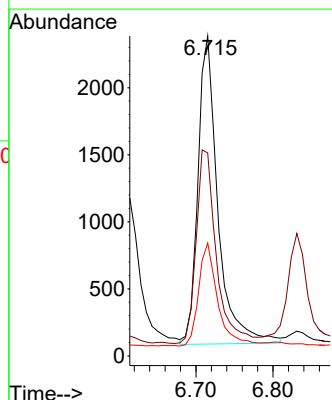
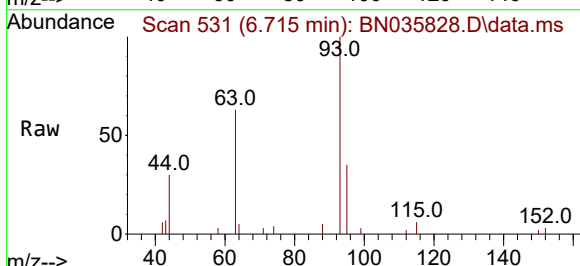
RT: 6.715 min Scan# 531

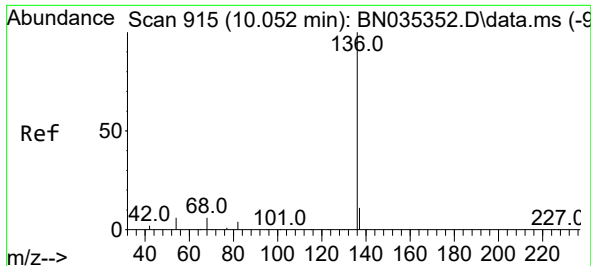
Delta R.T. -0.015 min

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

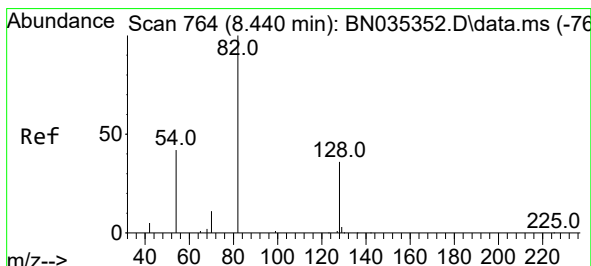
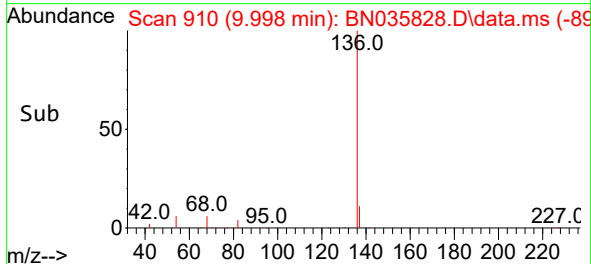
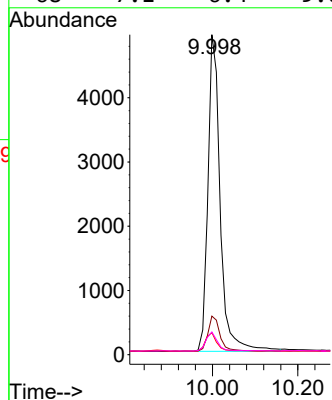
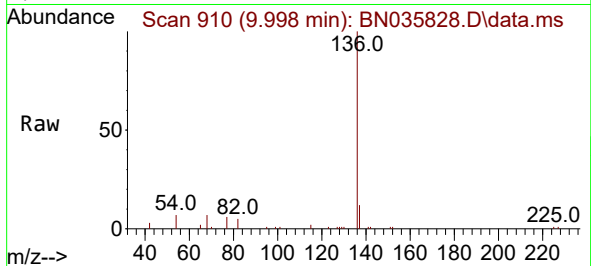




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

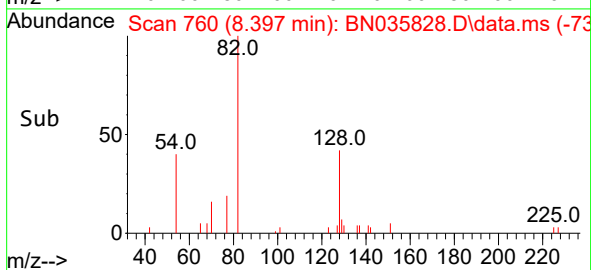
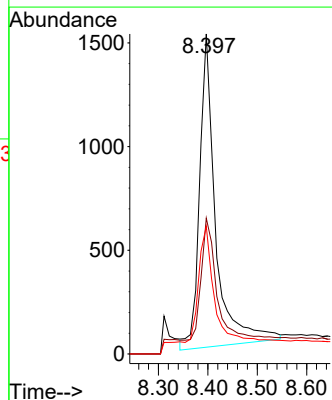
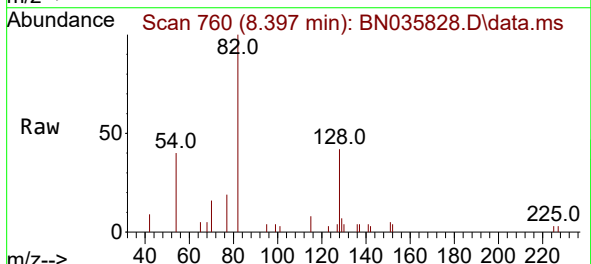
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

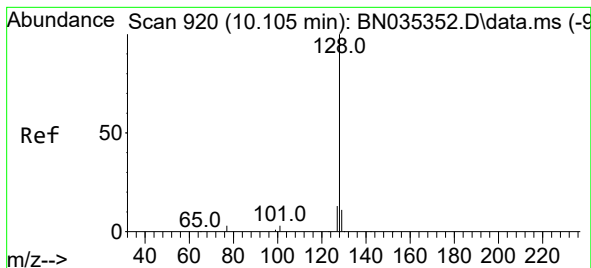
Tgt Ion:	136	Resp:	9840
Ion Ratio	Lower	Upper	
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6



#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# 915

Delta R.T. -0.011 min

Lab File: BN035828.D

Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

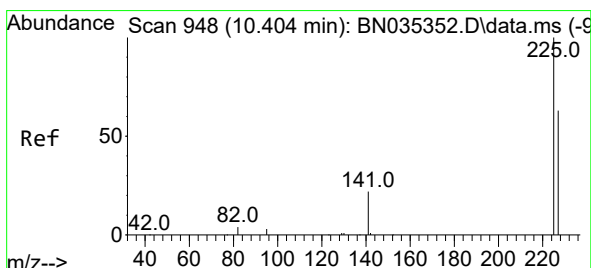
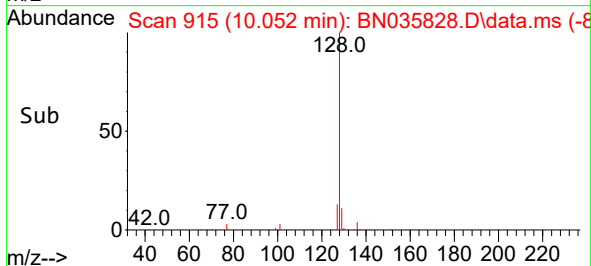
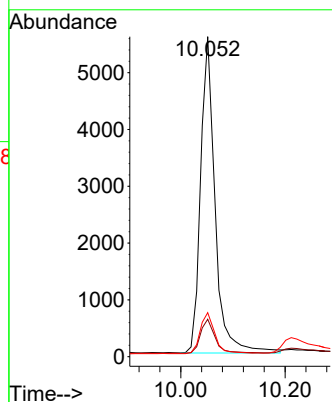
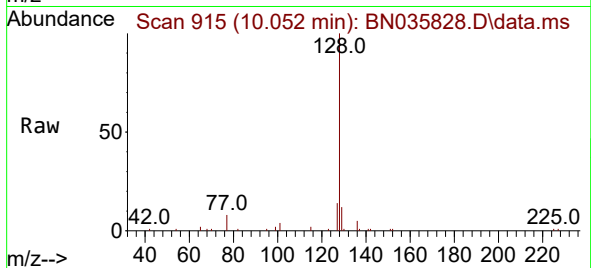
Tgt Ion:128 Resp: 10772

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

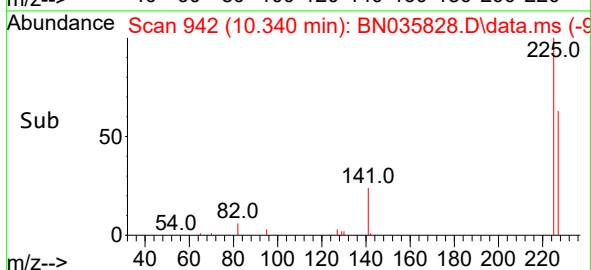
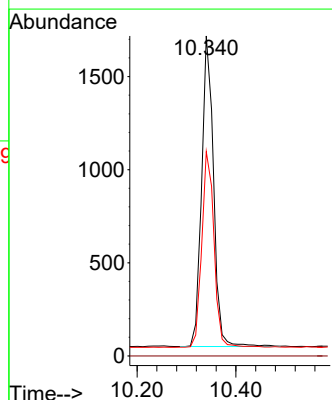
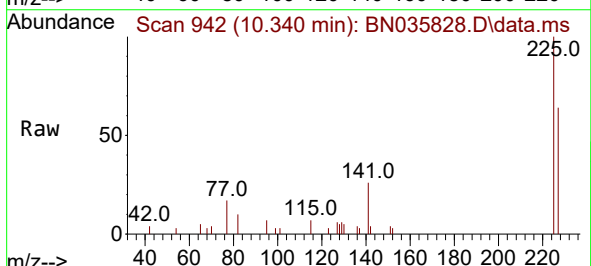
Tgt Ion:225 Resp: 2784

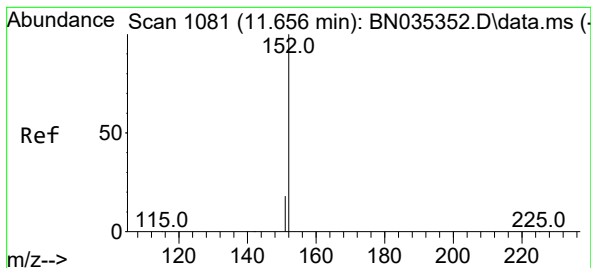
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.9 51.3 76.9

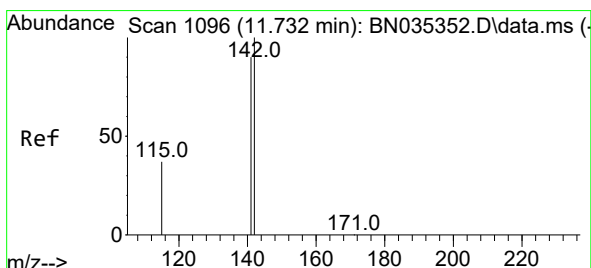
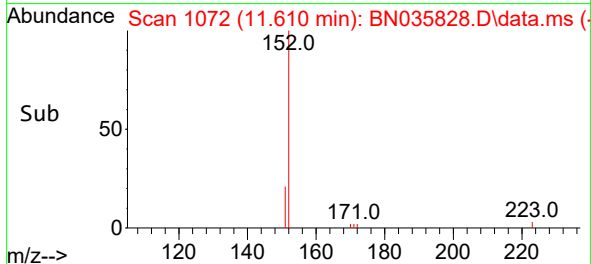
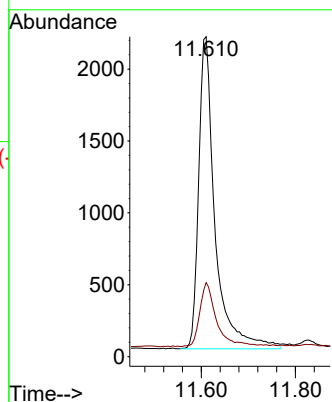
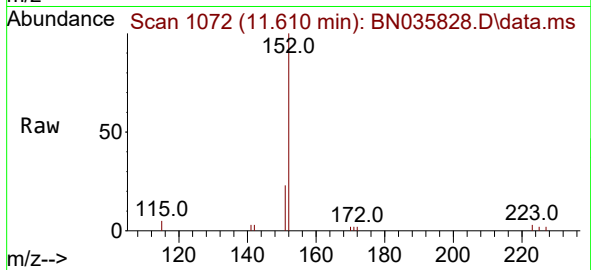




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

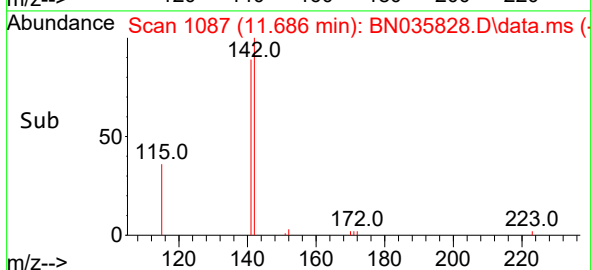
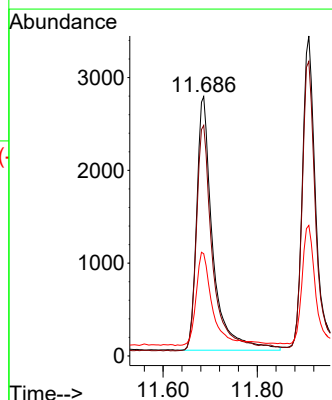
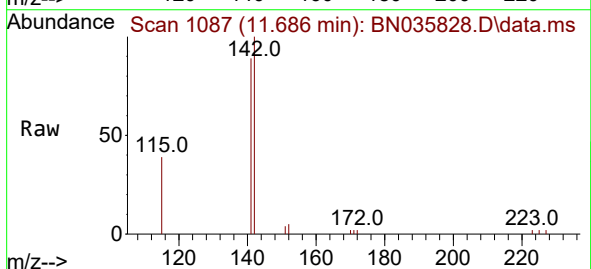
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

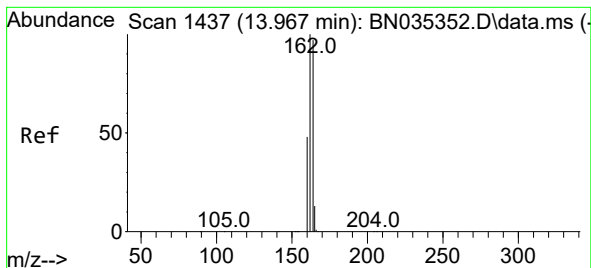
Tgt Ion:152 Resp: 5246
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#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

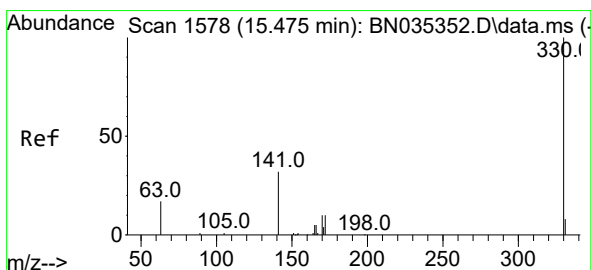
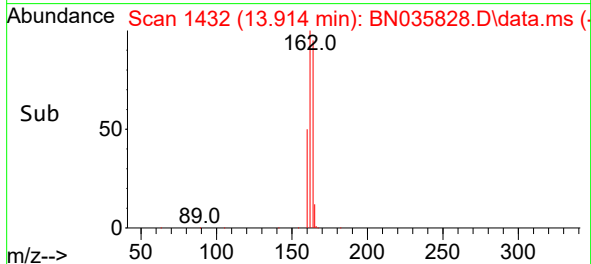
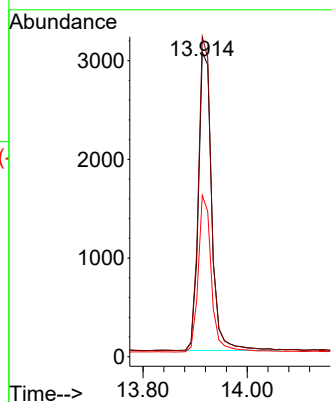
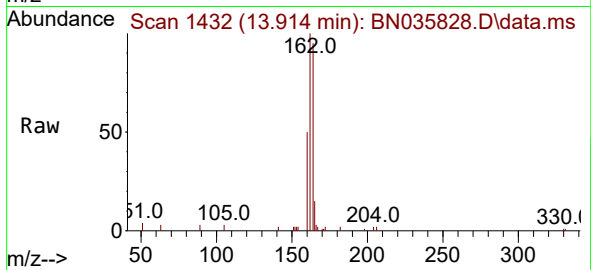
Tgt Ion:164 Resp: 5373

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

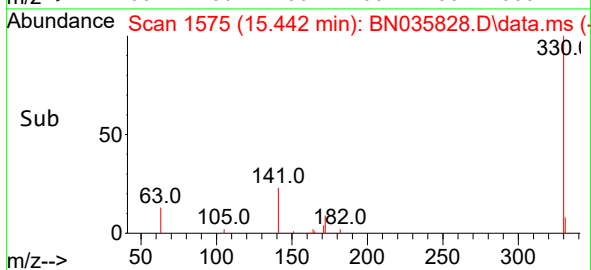
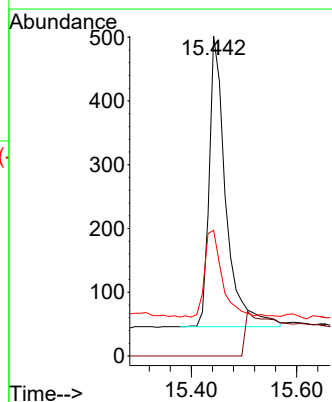
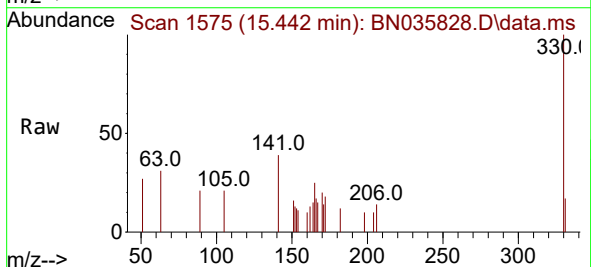
Tgt Ion:330 Resp: 1040

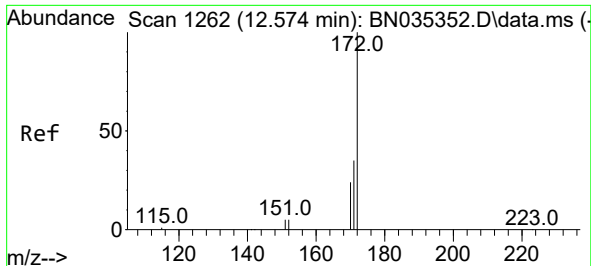
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.0 26.6 40.0

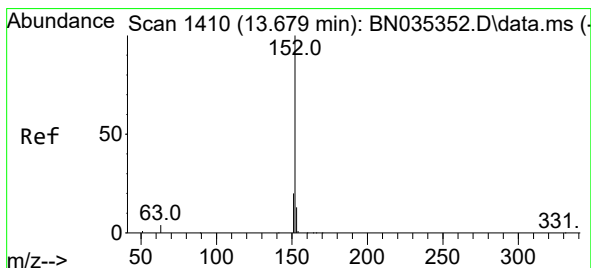
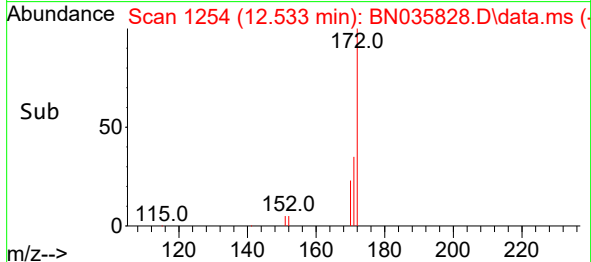
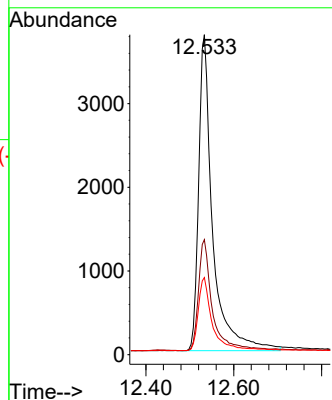
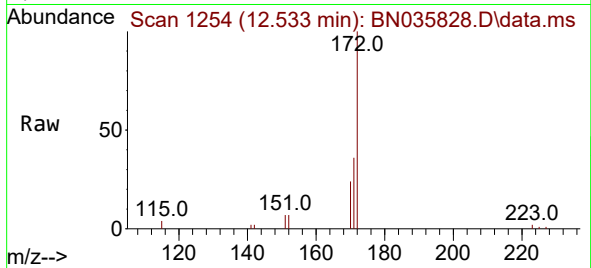




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

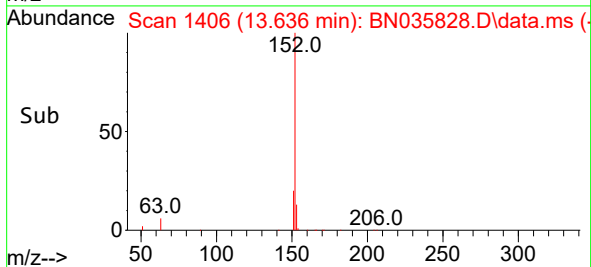
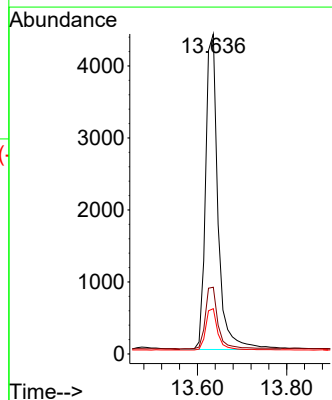
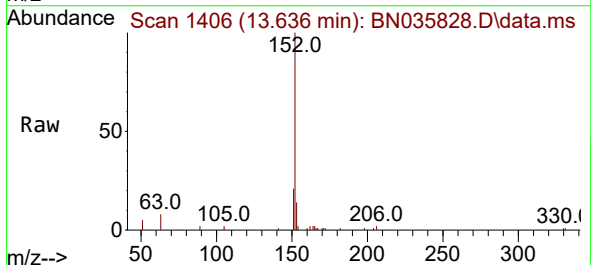
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

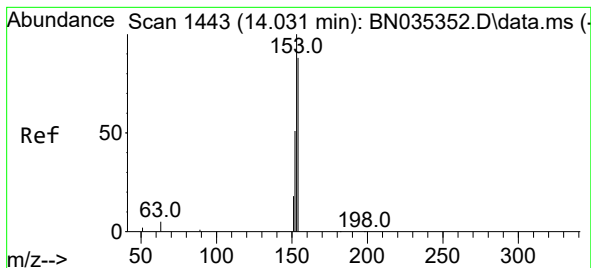
Tgt Ion:172 Resp: 8409
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 24.1 19.8 29.8



#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

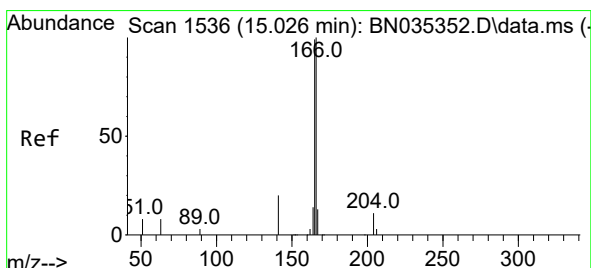
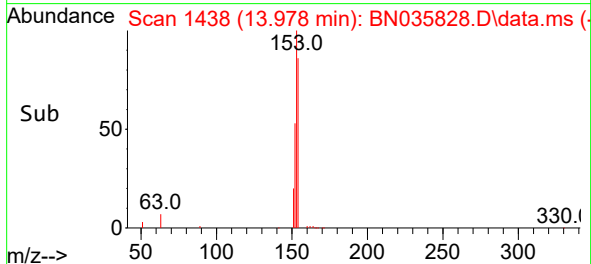
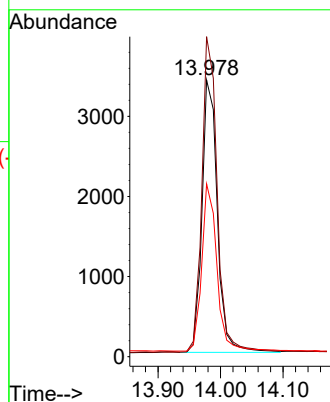
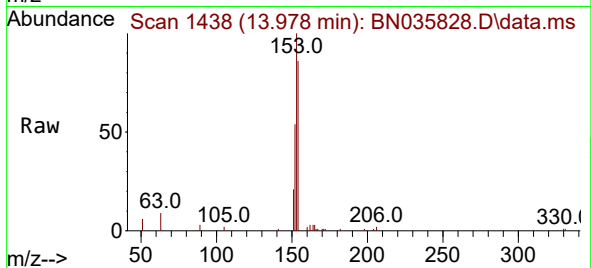
Tgt Ion:154 Resp: 5821

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

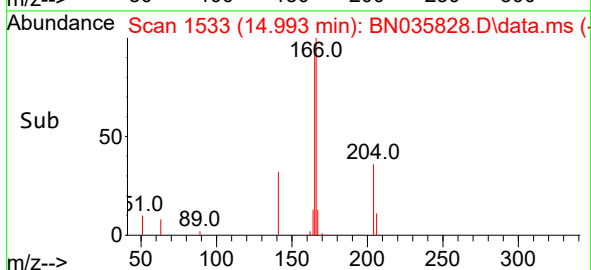
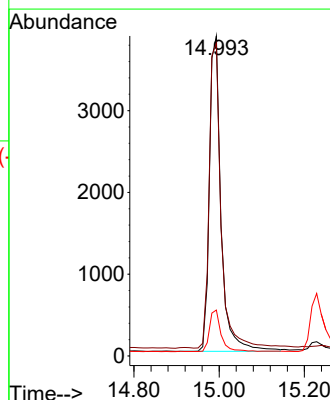
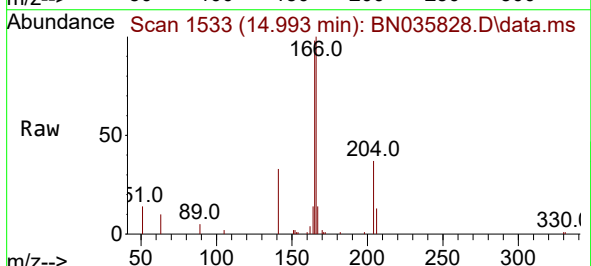
Tgt Ion:166 Resp: 7311

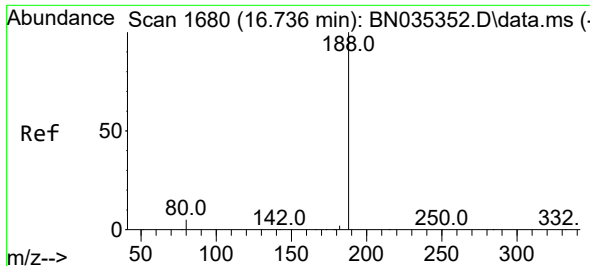
Ion Ratio Lower Upper

166 100

165 98.6 79.7 119.5

167 13.0 10.8 16.2

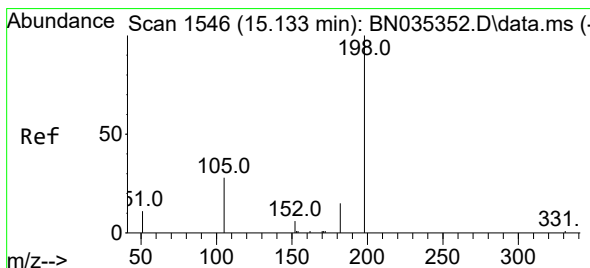
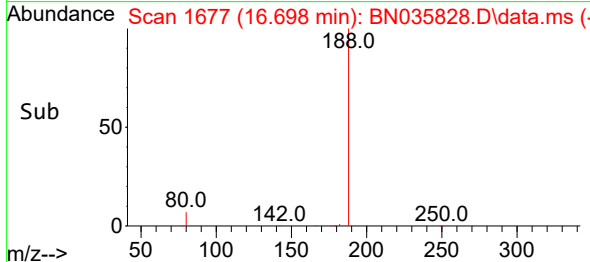
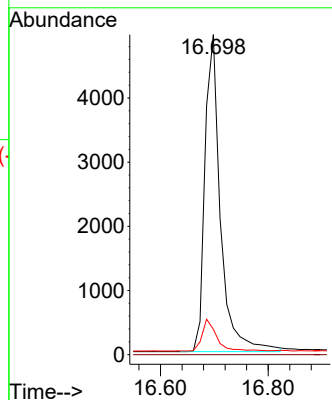
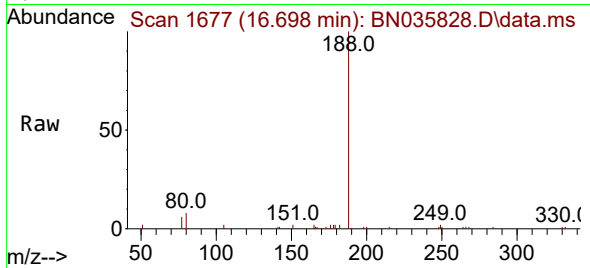




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

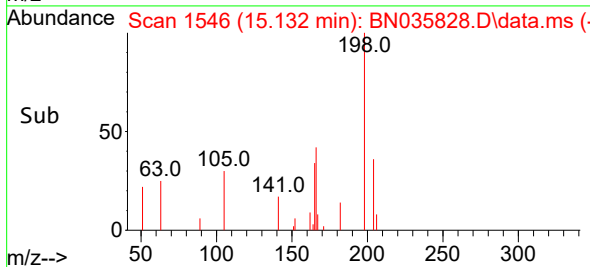
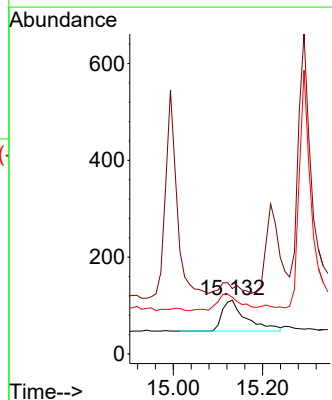
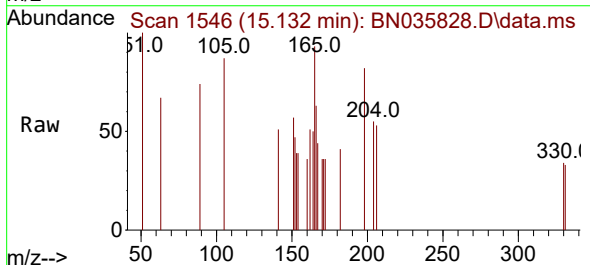
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

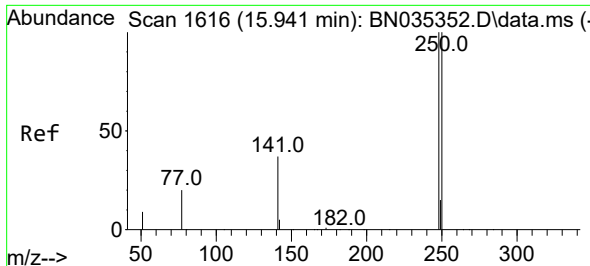
Tgt Ion:188 Resp: 9905
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.0 4.6 6.8#



#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#

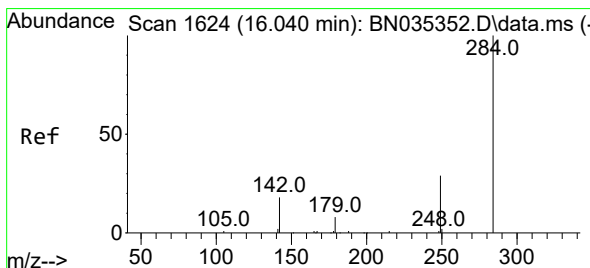
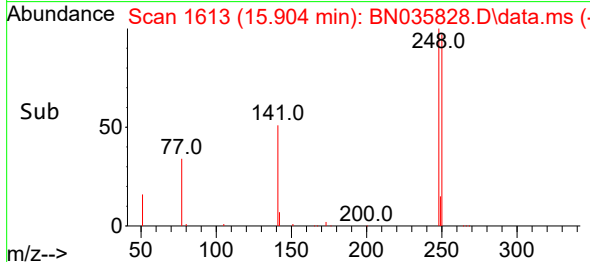
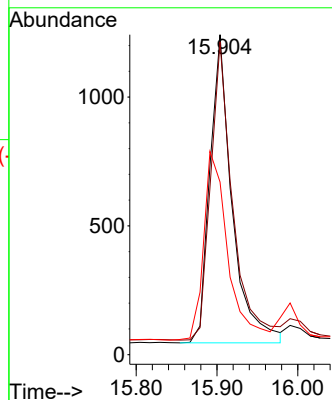
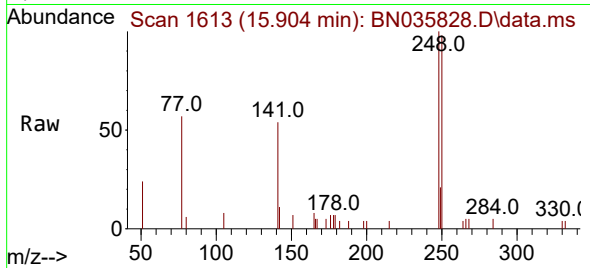




#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

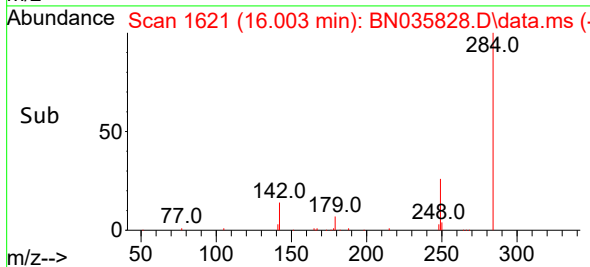
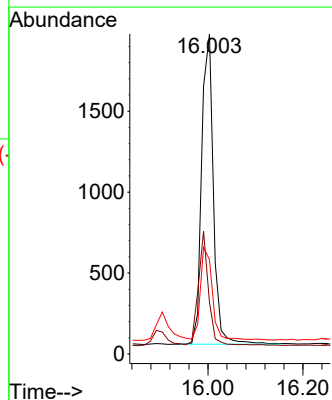
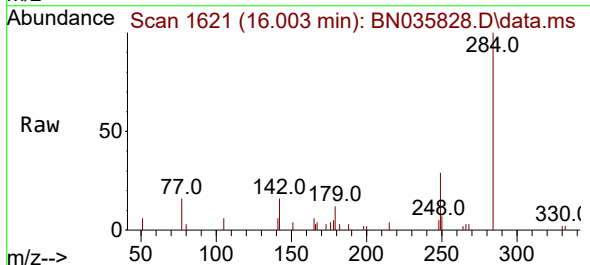
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

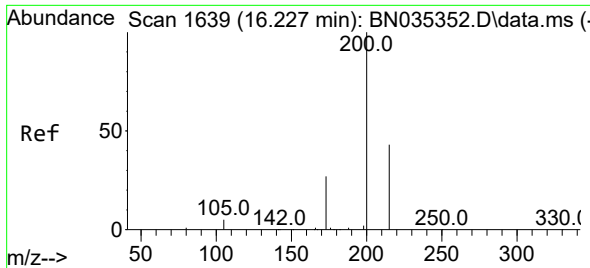
Tgt Ion:248 Resp: 2287
Ion Ratio Lower Upper
248 100
250 97.8 80.6 120.8
141 53.9 31.5 47.3#



#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

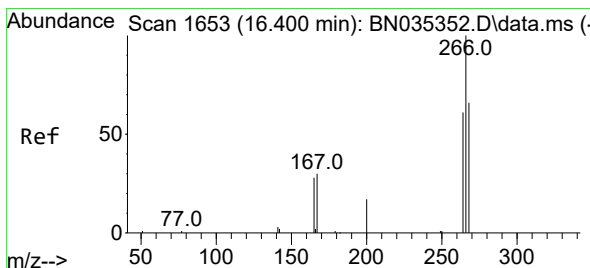
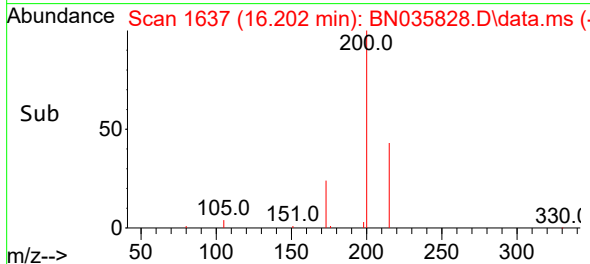
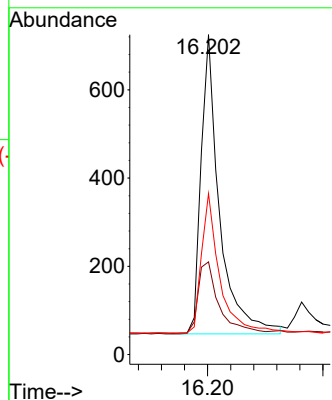
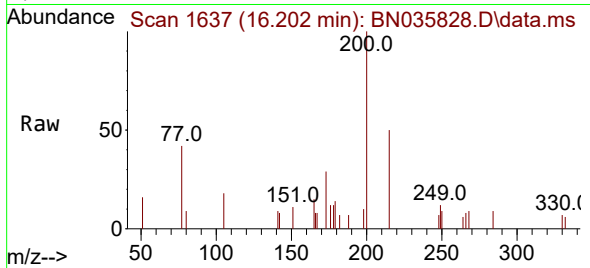




#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

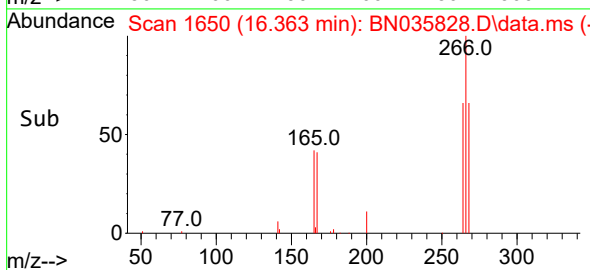
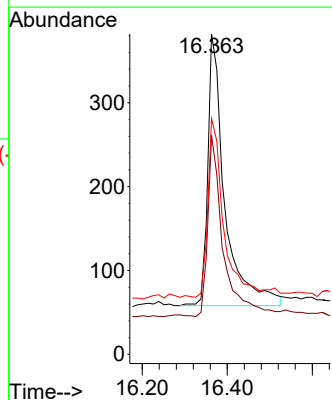
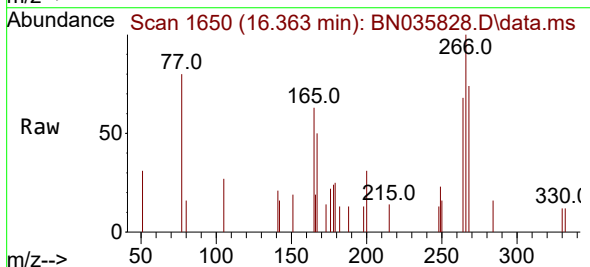
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

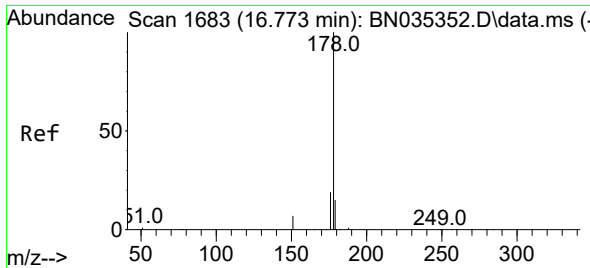
Tgt Ion:200 Resp: 1504
Ion Ratio Lower Upper
200 100
173 29.0 24.1 36.1
215 50.3 36.9 55.3



#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

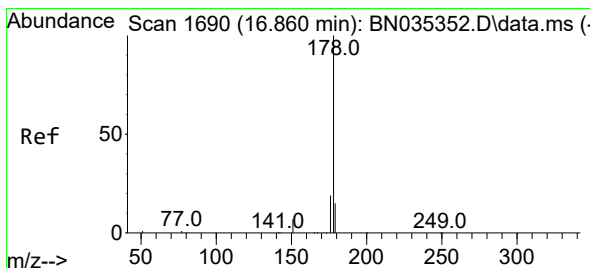
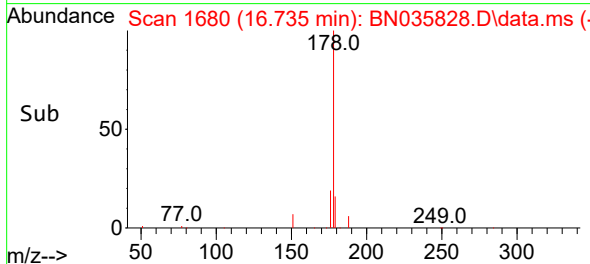
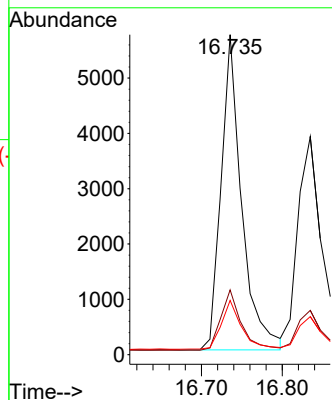
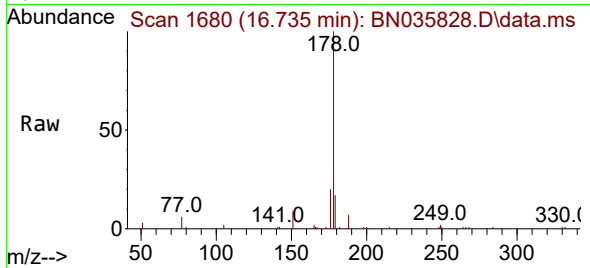




#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

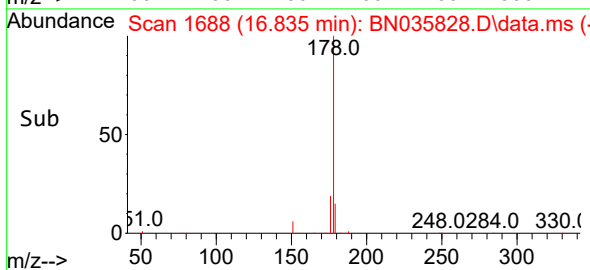
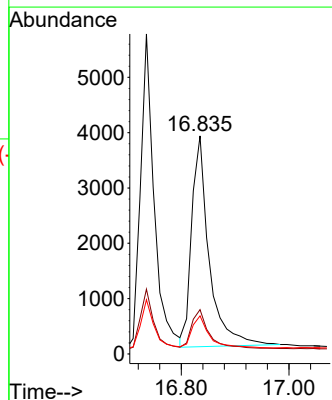
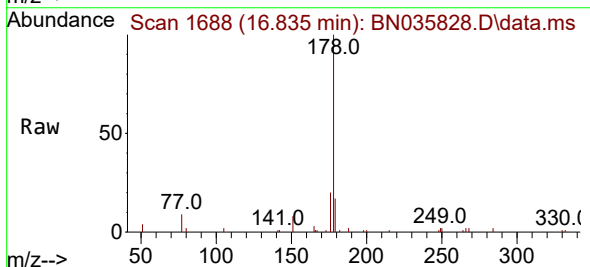
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

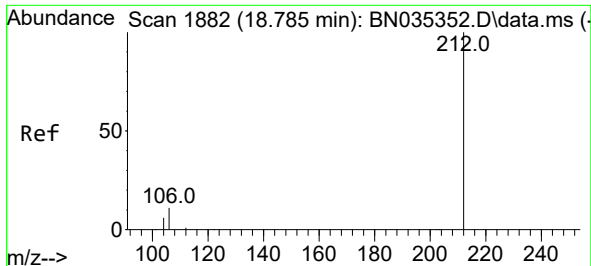
Tgt Ion:178 Resp: 10097
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5



#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

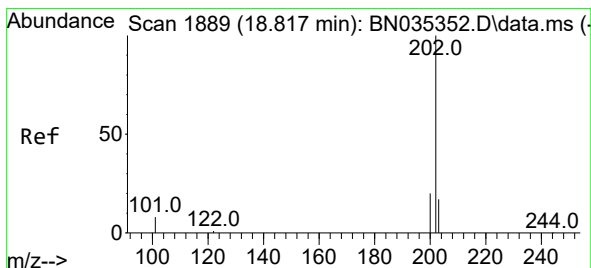
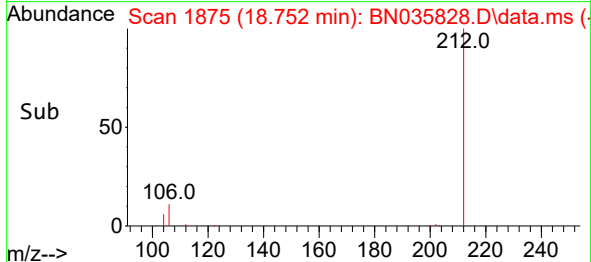
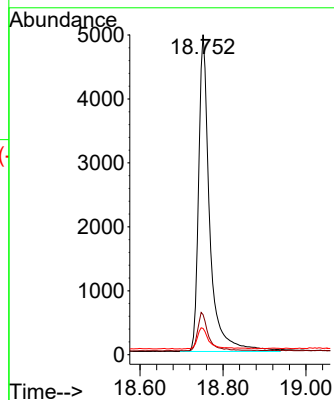
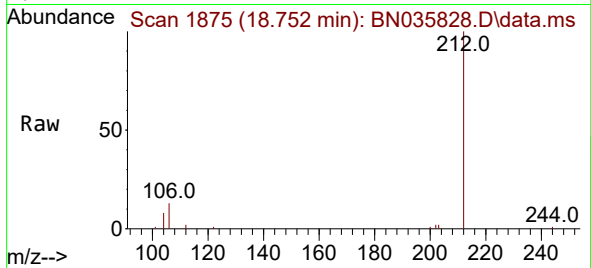




#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

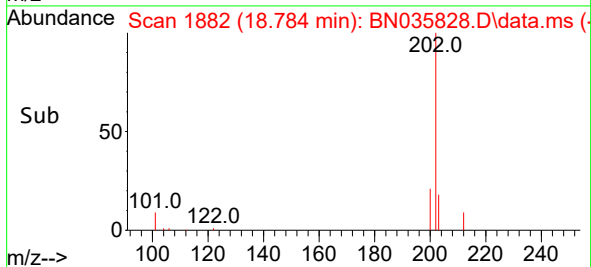
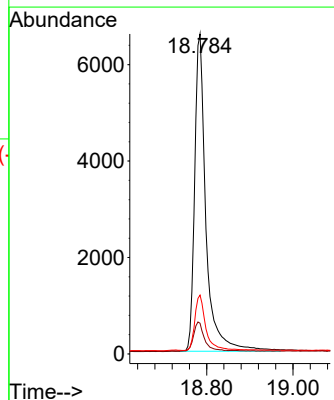
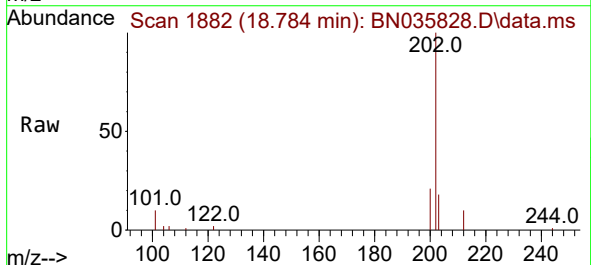
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

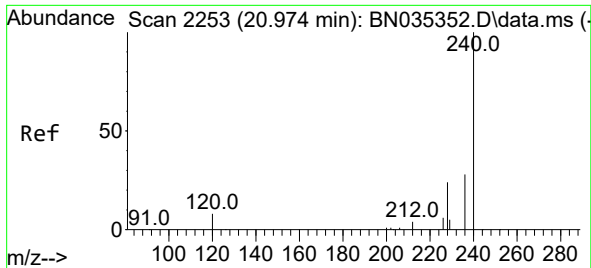
Tgt Ion:212 Resp: 9222
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 7.0 5.3 7.9



#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

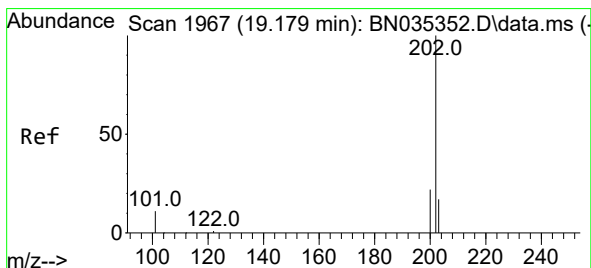
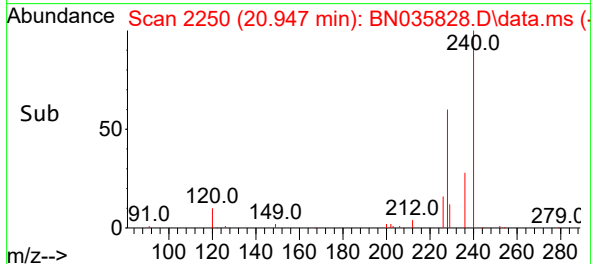
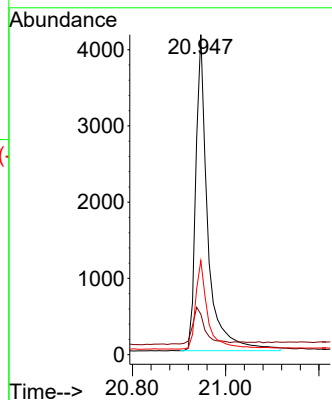
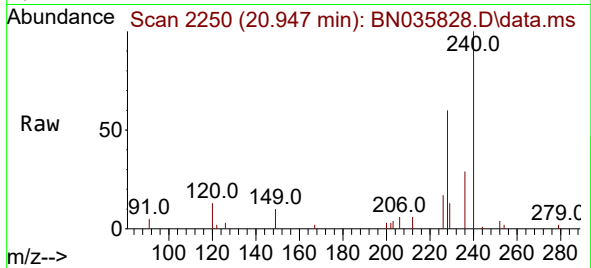




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

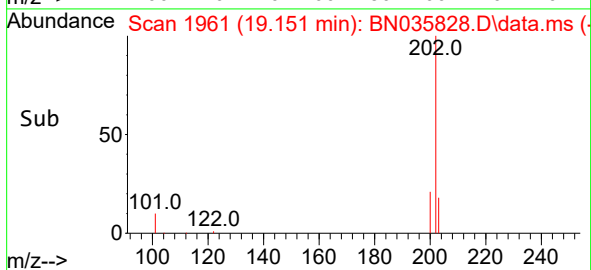
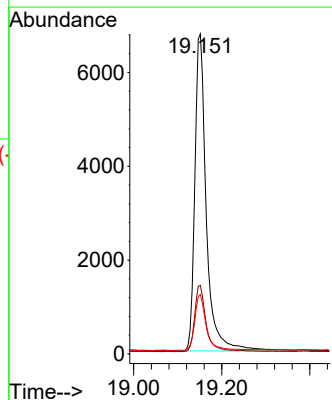
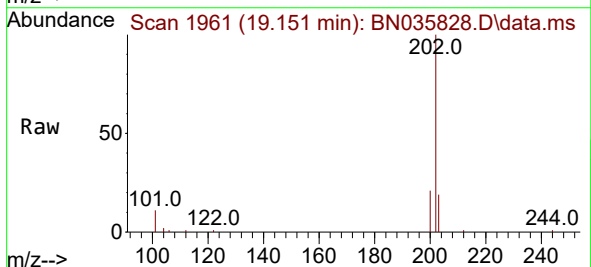
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

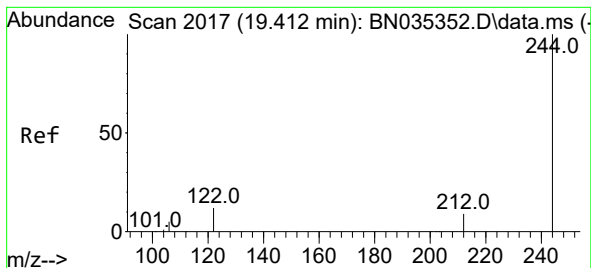
Tgt Ion:240 Resp: 7447
Ion Ratio Lower Upper
240 100
120 12.6 7.9 11.9#
236 29.4 22.9 34.3



#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# 20

Delta R.T. -0.005 min

Lab File: BN035828.D

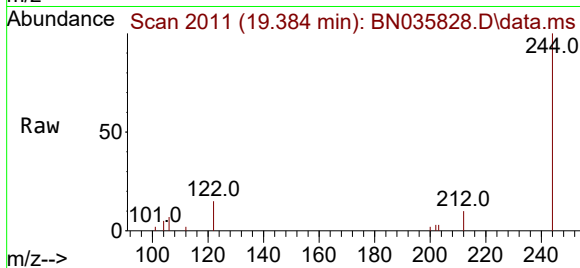
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



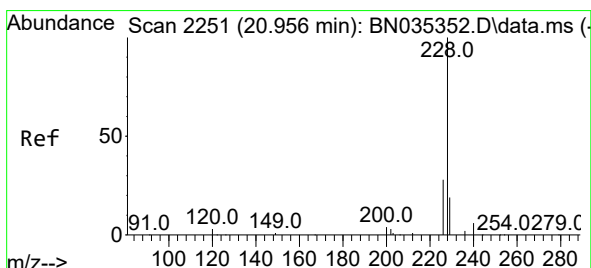
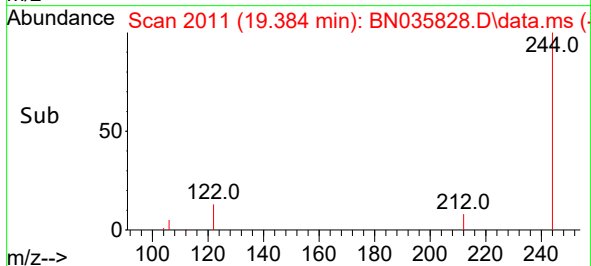
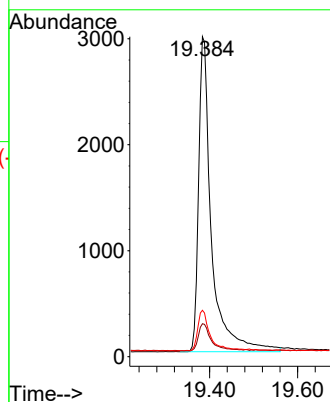
Tgt Ion:244 Resp: 6024

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

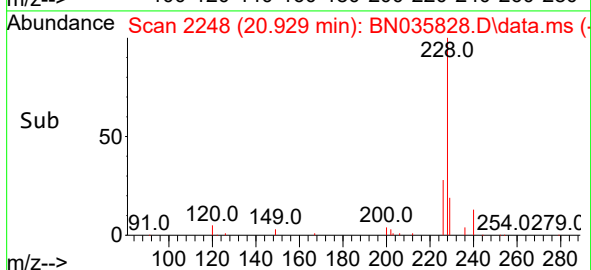
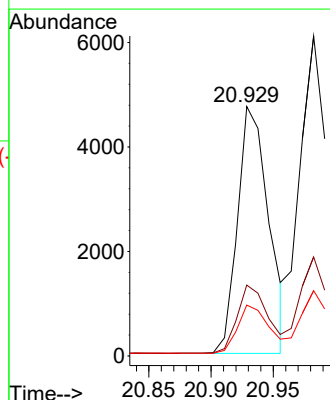
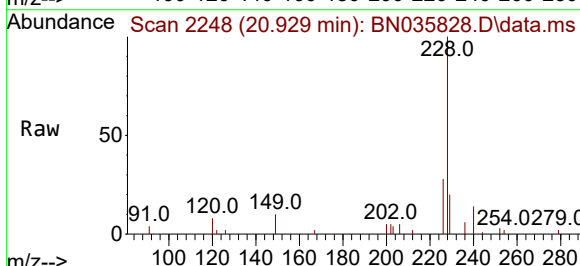
Tgt Ion:228 Resp: 8203

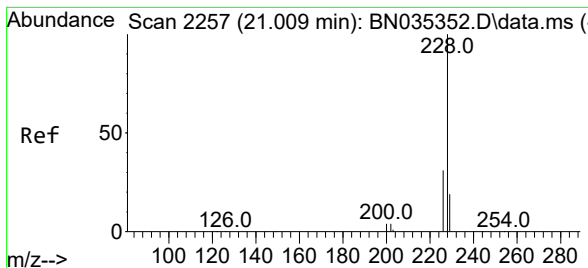
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.009 min

Lab File: BN035828.D

Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

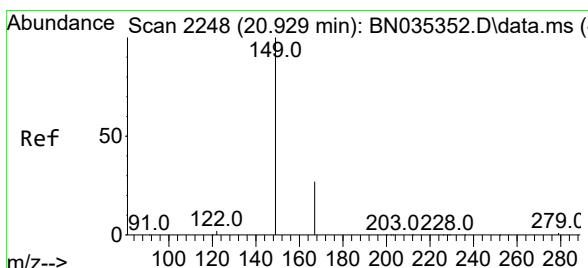
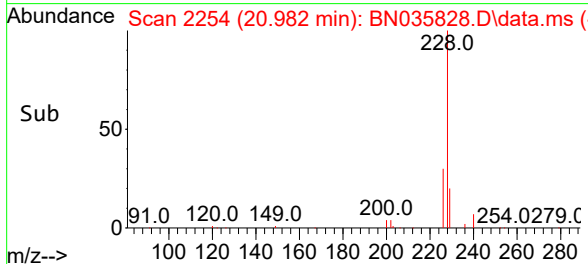
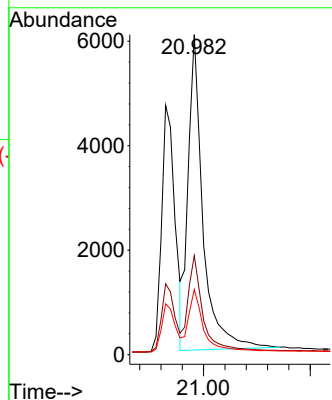
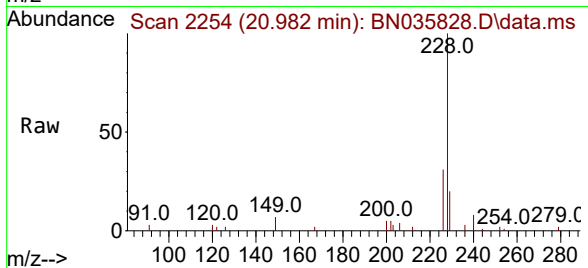
Tgt Ion:228 Resp: 11628

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

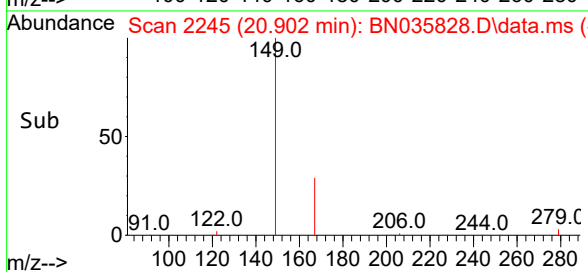
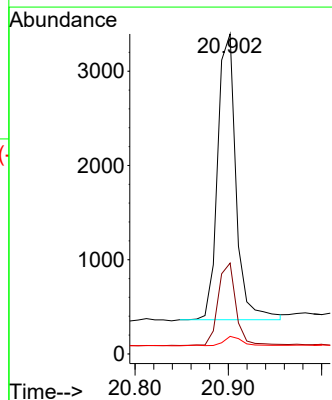
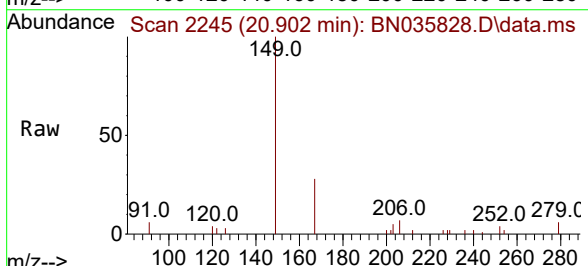
Tgt Ion:149 Resp: 4135

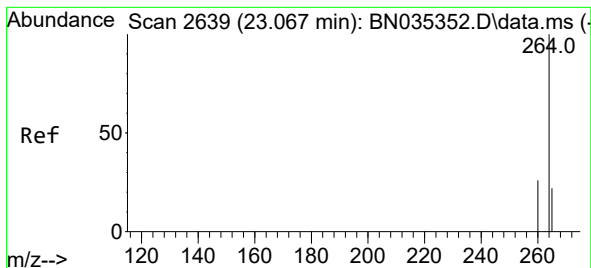
Ion Ratio Lower Upper

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

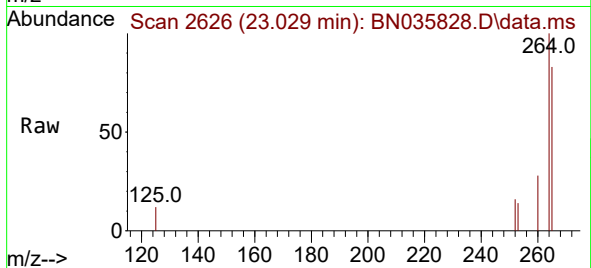
Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



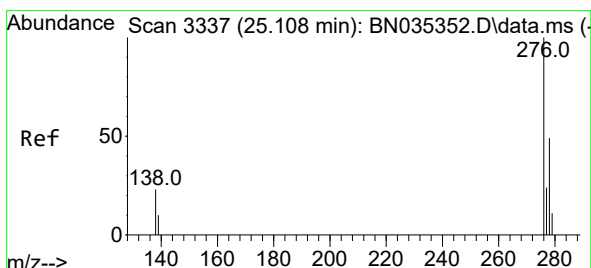
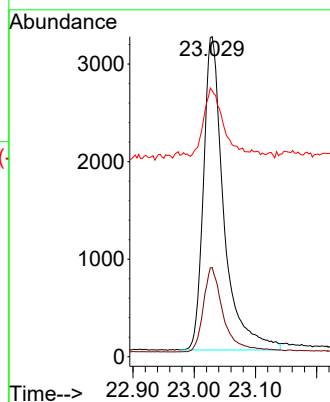
Tgt Ion:264 Resp: 7426

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

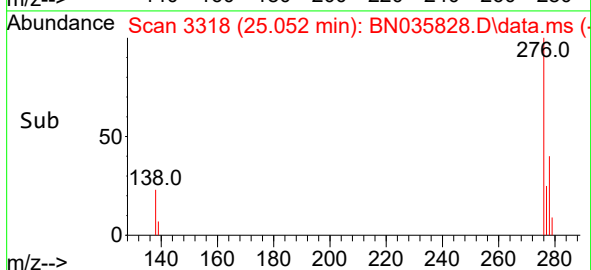
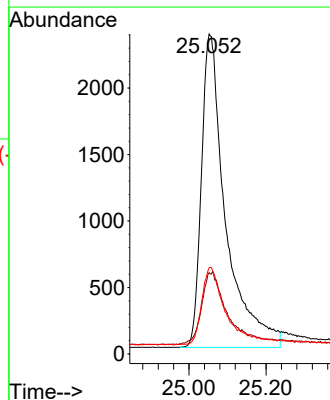
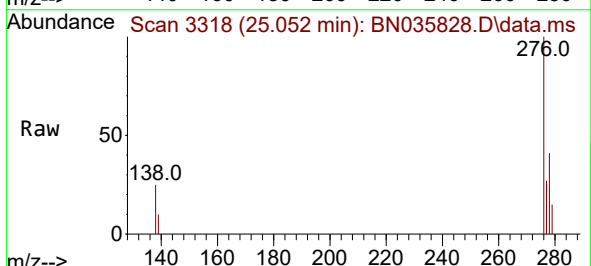
Tgt Ion:276 Resp: 10298

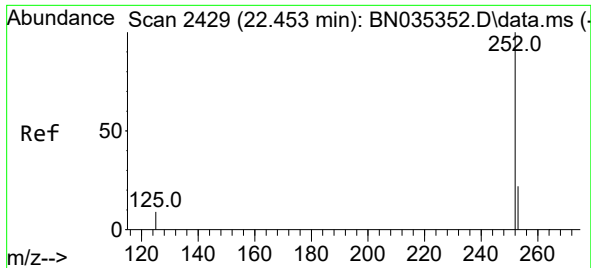
Ion Ratio Lower Upper

276 100

138 8.7 19.4 29.0#

277 22.9 19.8 29.6

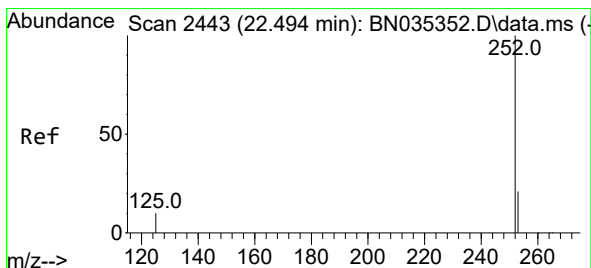
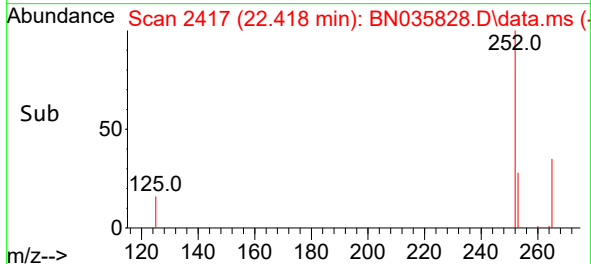
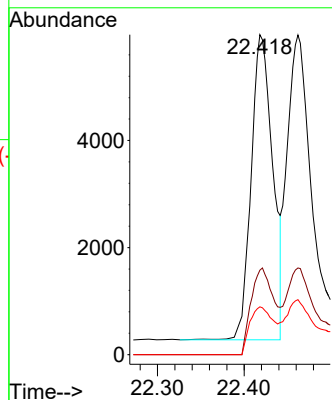
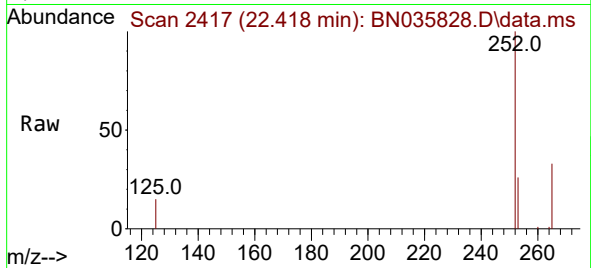




#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

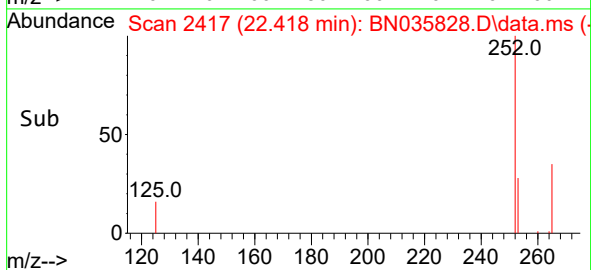
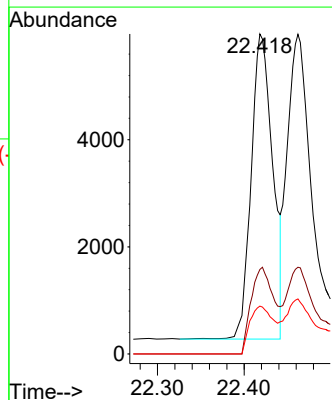
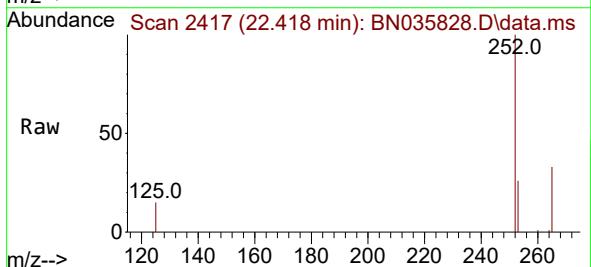
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

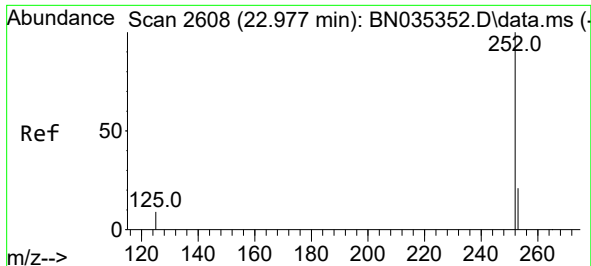
Tgt Ion:252 Resp: 17240
Ion Ratio Lower Upper
252 100
253 26.4 19.6 29.4
125 15.0 9.6 14.4#



#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# 21

Delta R.T. -0.006 min

Lab File: BN035828.D

Acq: 24 Dec 2024 19:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

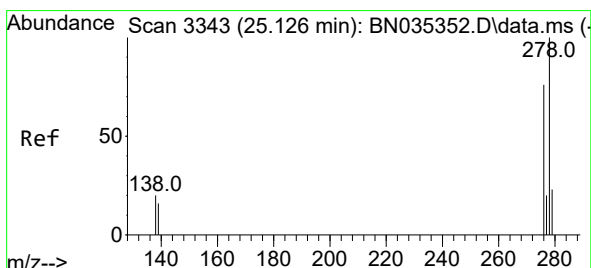
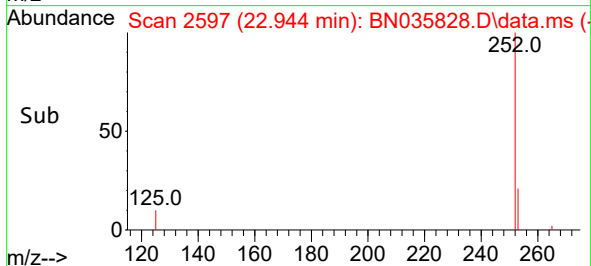
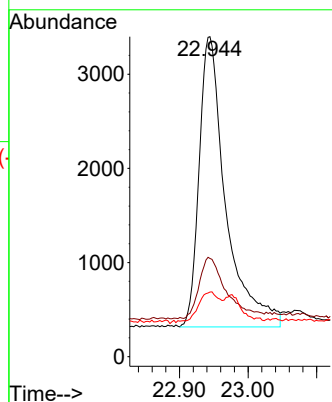
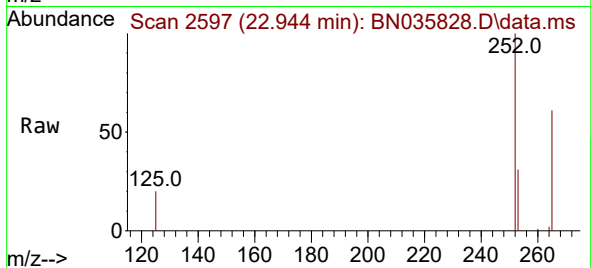
Tgt Ion:252 Resp: 8337

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

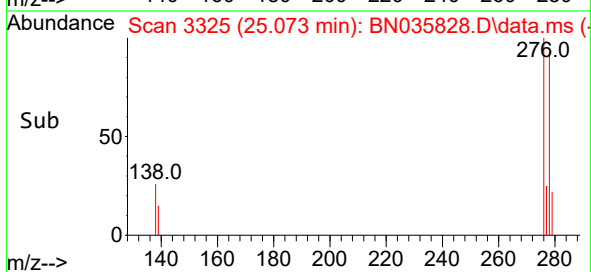
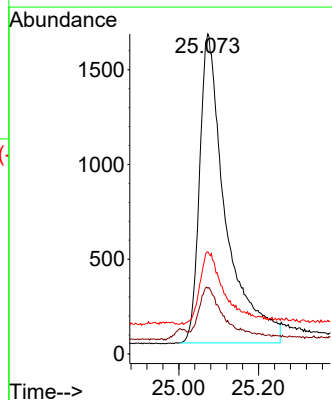
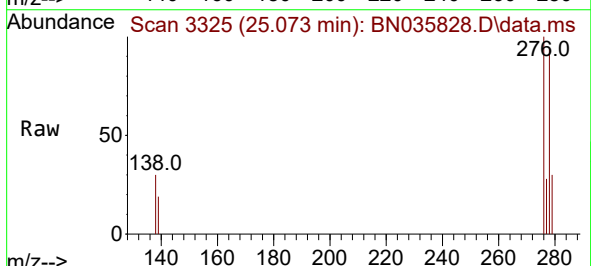
Tgt Ion:278 Resp: 7409

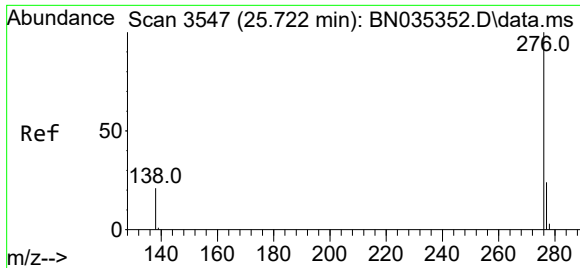
Ion Ratio Lower Upper

278 100

139 20.5 14.2 21.4

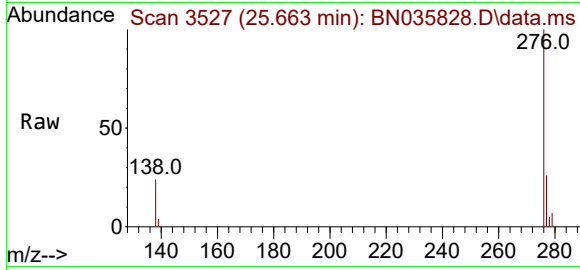
279 31.9 20.5 30.7#



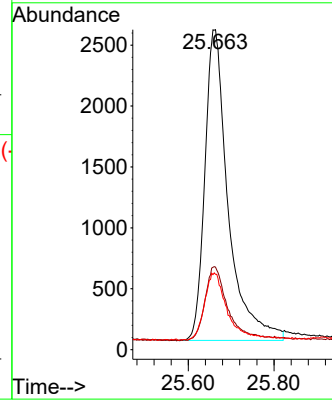
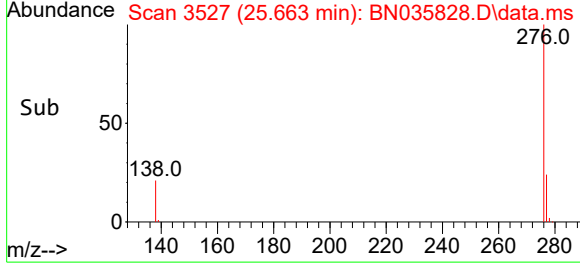


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 31
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035830.D
 Acq On : 24 Dec 2024 20:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 23:55:02 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)

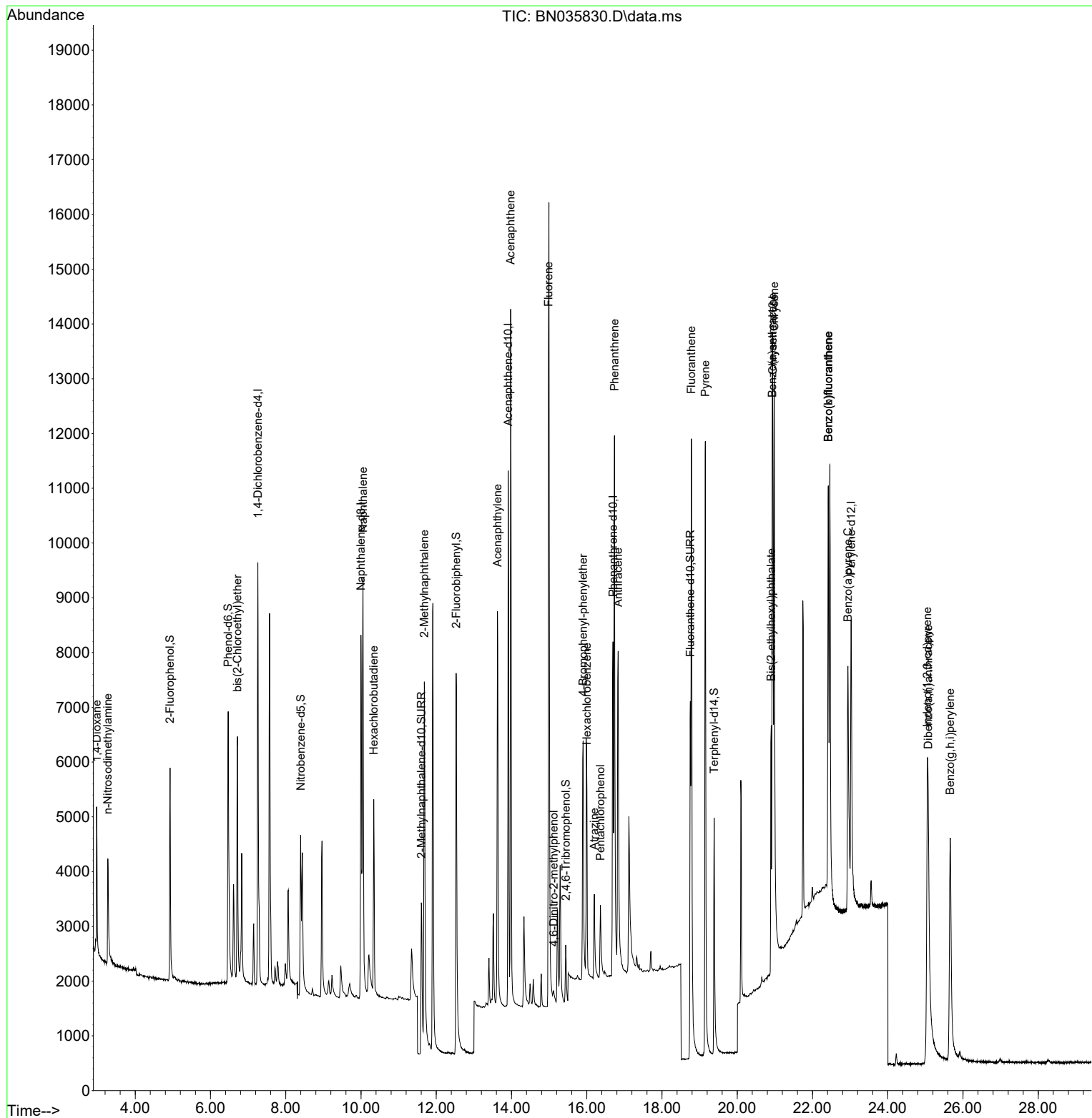
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3866	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	9955	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5956	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	11143	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7851	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7870	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3514	0.363	ng	-0.01
5) Phenol-d6	6.470	99	6003	0.516	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3360	0.553	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5482	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1203	0.285	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	9033	0.401	ng	-0.02
27) Fluoranthene-d10	18.752	212	9737	0.308	ng	0.00
31) Terphenyl-d14	19.384	244	6543	0.422	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1940	0.525	ng	99
3) n-Nitrosodimethylamine	3.270	42	1162	0.377	ng	# 83
6) bis(2-Chloroethyl)ether	6.715	93	4053	0.415	ng	99
9) Naphthalene	10.052	128	10855	0.413	ng	99
10) Hexachlorobutadiene	10.340	225	2815	0.465	ng	# 100
12) 2-Methylnaphthalene	11.681	142	6938	0.369	ng	98
16) Acenaphthylene	13.625	152	9384	0.375	ng	100
17) Acenaphthene	13.978	154	6532	0.393	ng	100
18) Fluorene	14.983	166	8318	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	301	0.275	ng	# 35
21) 4-Bromophenyl-phenylether	15.904	248	2677	0.411	ng	# 94
22) Hexachlorobenzene	16.003	284	3900	0.510	ng	96
23) Atrazine	16.202	200	1790	0.386	ng	96
24) Pentachlorophenol	16.363	266	1032	0.310	ng	88
25) Phenanthrene	16.735	178	11523	0.376	ng	100
26) Anthracene	16.835	178	9576	0.346	ng	100
28) Fluoranthene	18.780	202	13046	0.316	ng	100
30) Pyrene	19.152	202	13156	0.454	ng	100
32) Benzo(a)anthracene	20.929	228	8776	0.320	ng	100
33) Chrysene	20.983	228	12184	0.430	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4711	0.434	ng	100
36) Indeno(1,2,3-cd)pyrene	25.052	276	10972	0.357	ng	99
37) Benzo(b)fluoranthene	22.418	252	14430	0.501	ng	# 95
38) Benzo(k)fluoranthene	22.418	252	14430	0.509	ng	95
39) Benzo(a)pyrene	22.942	252	8861	0.374	ng	# 88
40) Dibenzo(a,h)anthracene	25.076	278	7792	0.321	ng	92
41) Benzo(g,h,i)perylene	25.661	276	10218	0.403	ng	99

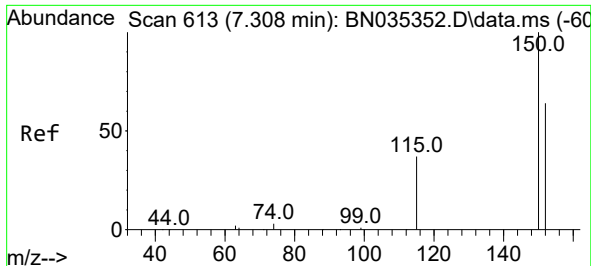
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 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

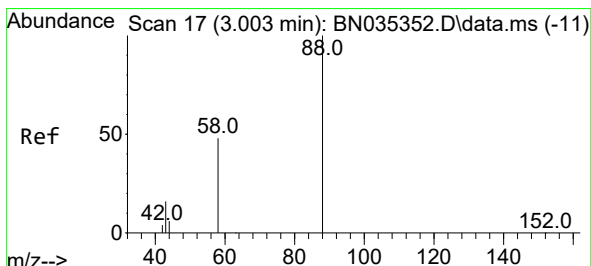
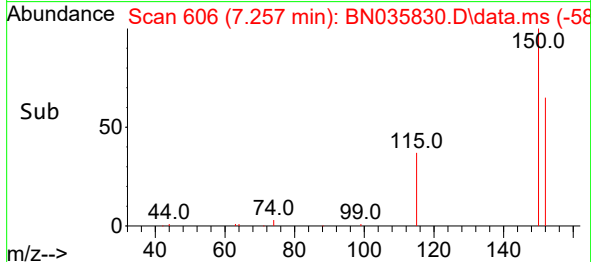
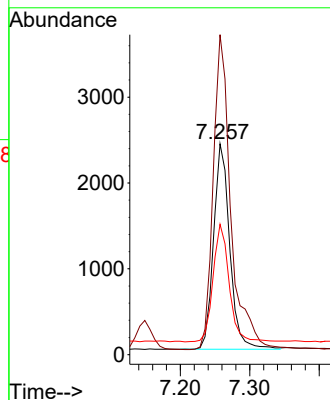
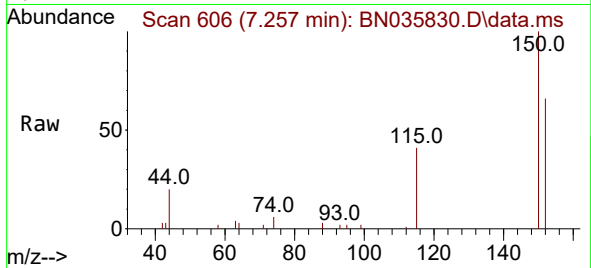




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035830.D
 Acq: 24 Dec 2024 20:55

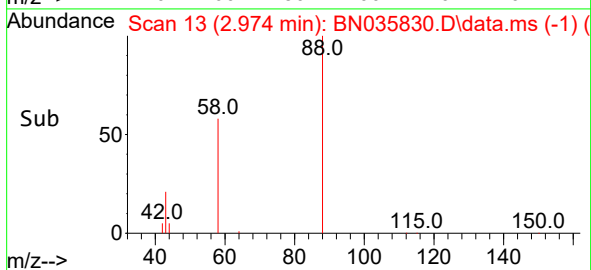
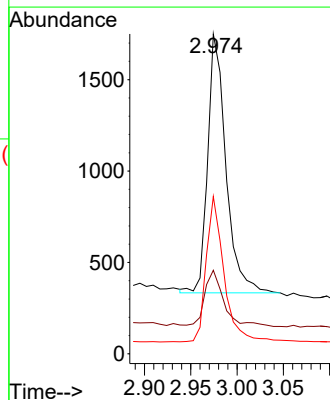
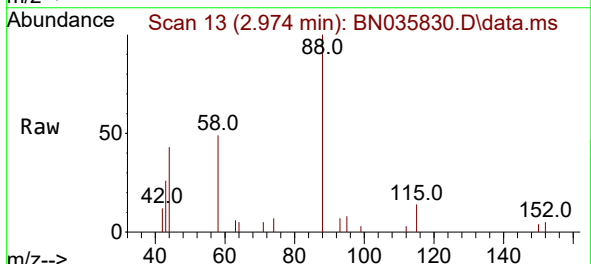
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

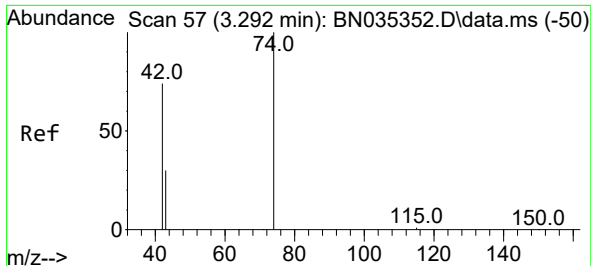
Tgt Ion:152 Resp: 3866
 Ion Ratio Lower Upper
 152 100
 150 151.7 124.0 186.0
 115 61.8 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.525 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035830.D
 Acq: 24 Dec 2024 20:55

Tgt Ion: 88 Resp: 1940
 Ion Ratio Lower Upper
 88 100
 43 22.6 17.2 25.8
 58 55.1 44.5 66.7

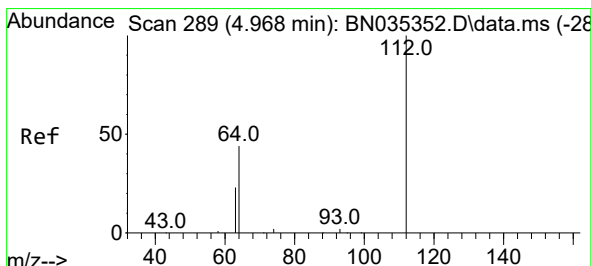
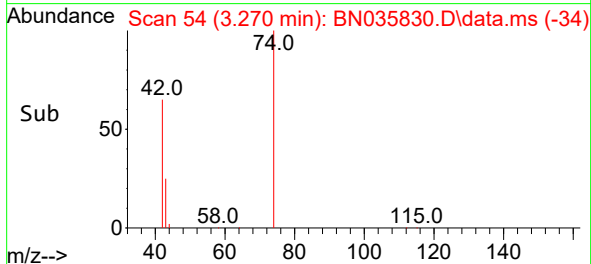
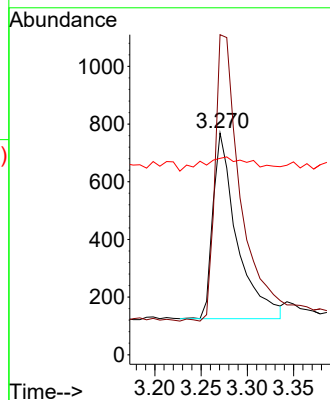
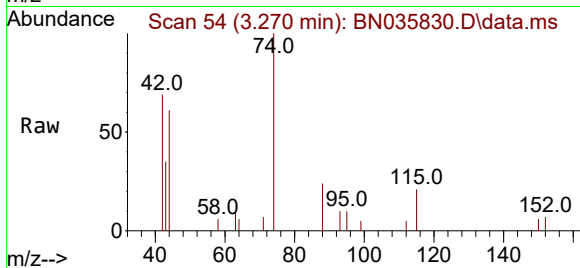




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

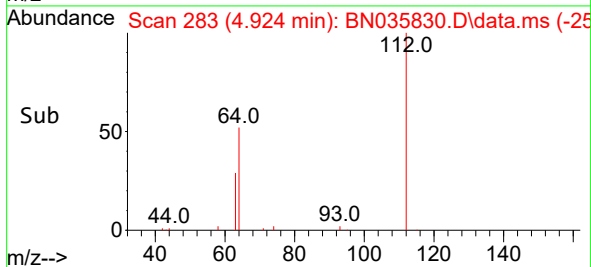
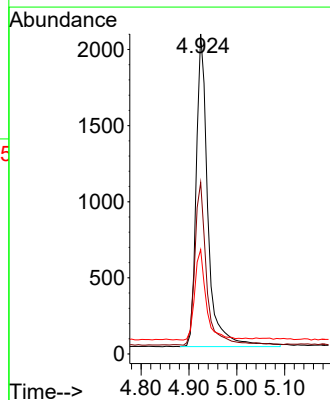
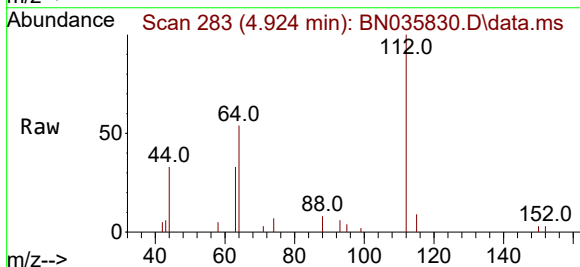
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

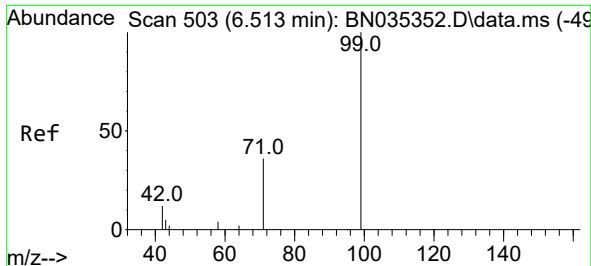
Tgt Ion: 42 Resp: 1162
Ion Ratio Lower Upper
42 100
74 177.6 124.9 187.3
44 15.8 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.363 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 112 Resp: 3514
Ion Ratio Lower Upper
112 100
64 50.9 39.8 59.8
63 27.9 21.0 31.6

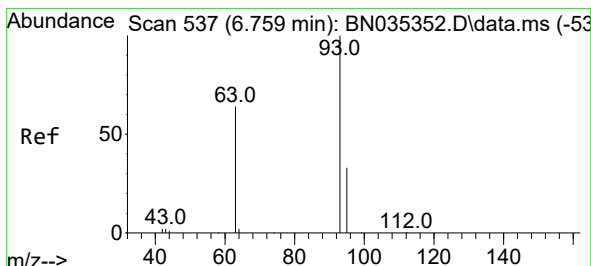
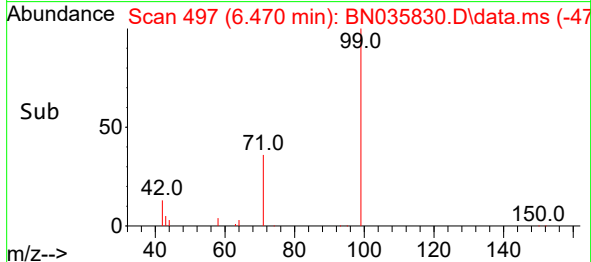
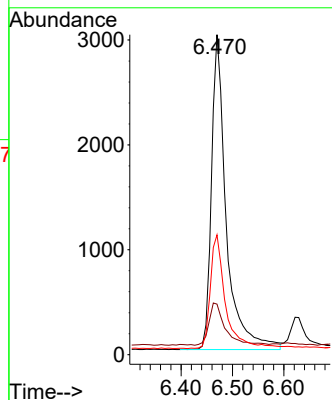
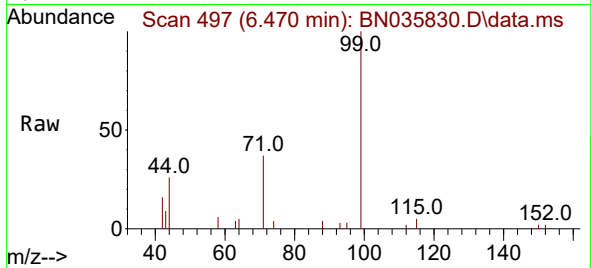




#5
Phenol-d6
Concen: 0.516 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

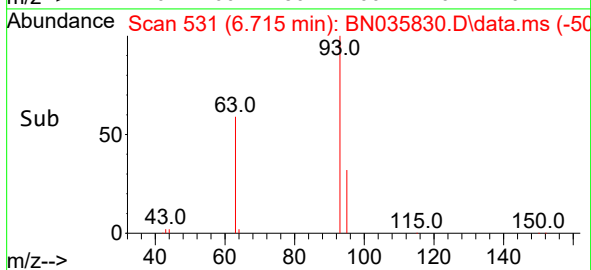
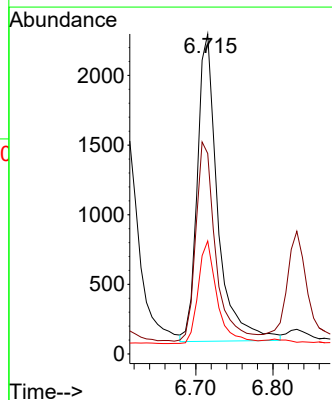
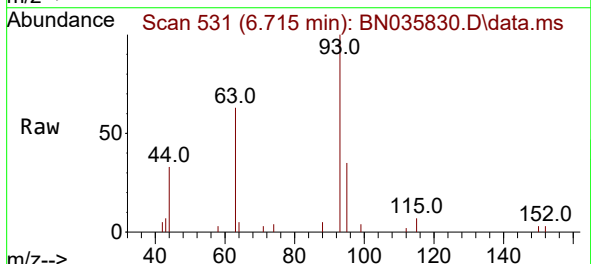
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

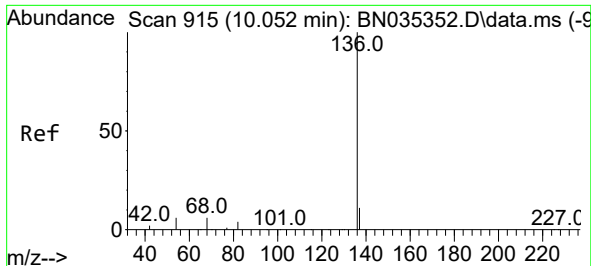
Tgt Ion: 99 Resp: 6003
Ion Ratio Lower Upper
99 100
42 14.8 11.4 17.2
71 37.8 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 93 Resp: 4053
Ion Ratio Lower Upper
93 100
63 63.1 50.4 75.6
95 31.0 25.7 38.5

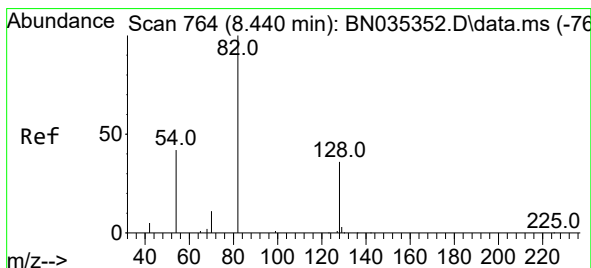
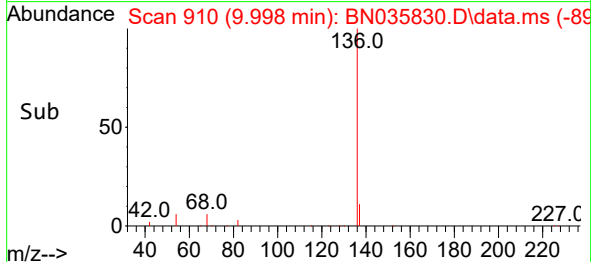
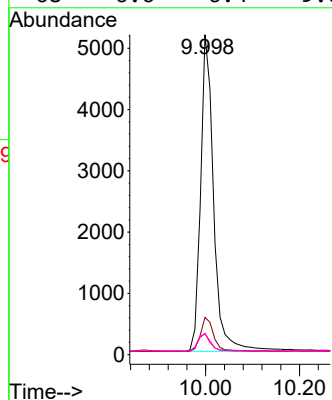
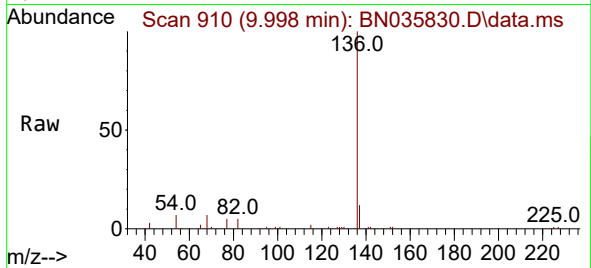




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

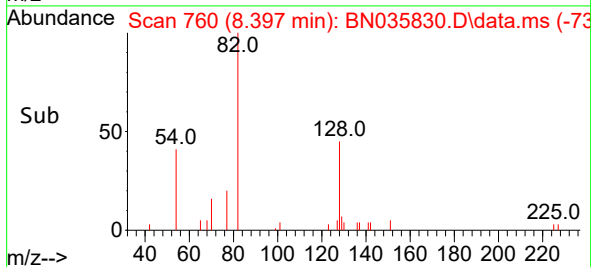
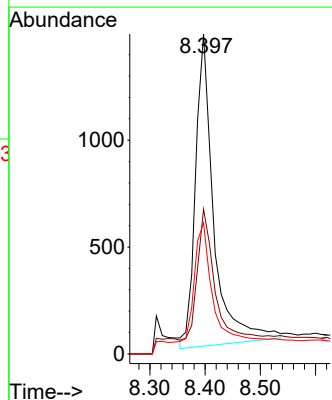
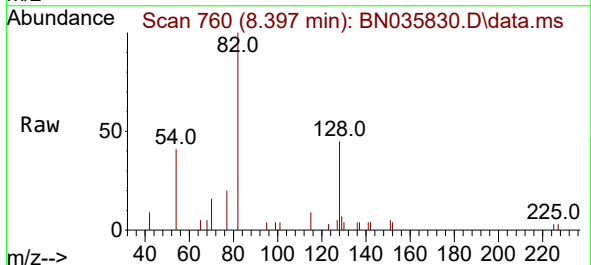
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

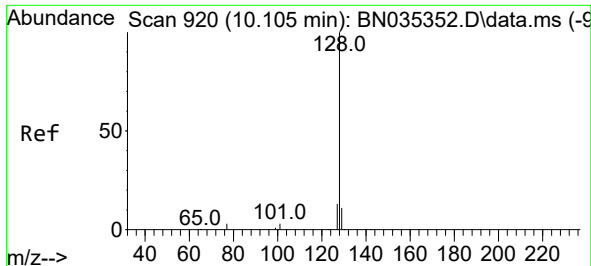
Tgt Ion:136	Resp:	9955
Ion Ratio	Lower	Upper
136	100	
137	11.6	10.2 15.2
54	6.6	6.1 9.1
68	6.6	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 82	Resp:	3360
Ion Ratio	Lower	Upper
82	100	
128	45.2	33.4 50.0
54	40.9	36.7 55.1

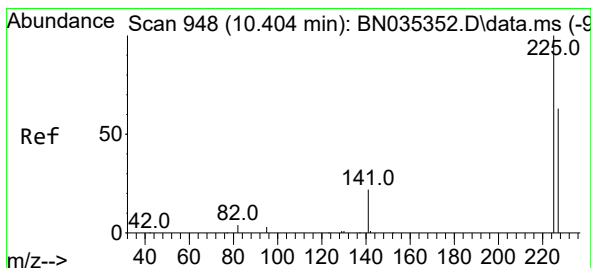
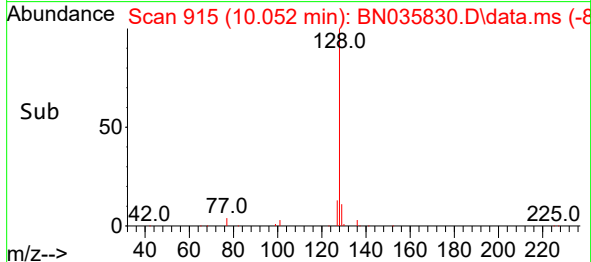
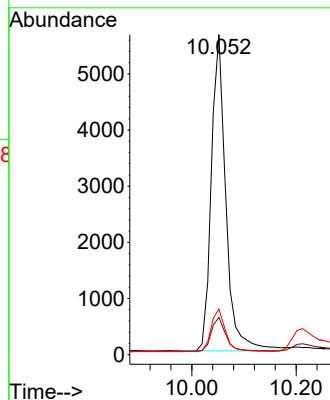
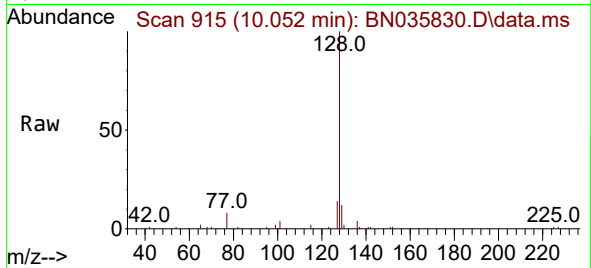




#9
Naphthalene
Concen: 0.413 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

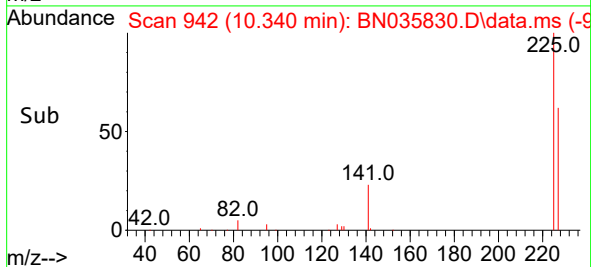
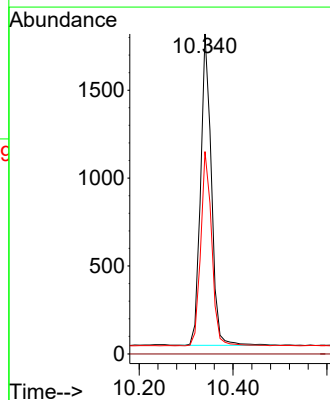
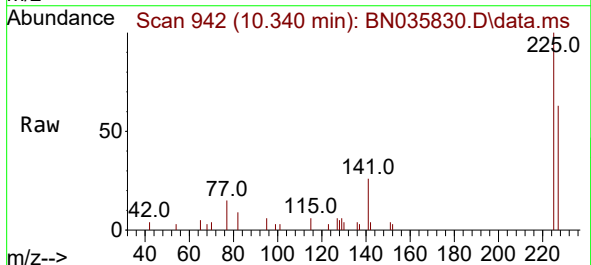
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

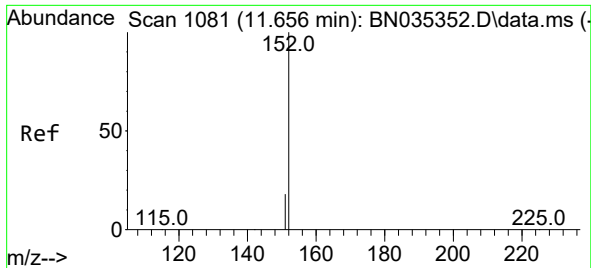
Tgt Ion:128 Resp: 10855
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:225 Resp: 2815
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9

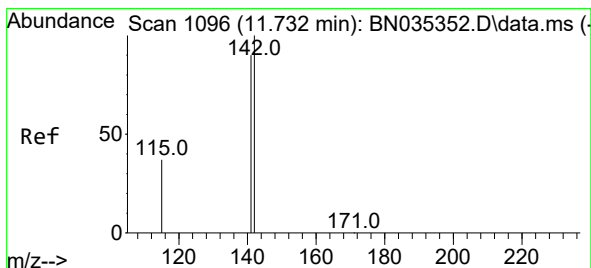
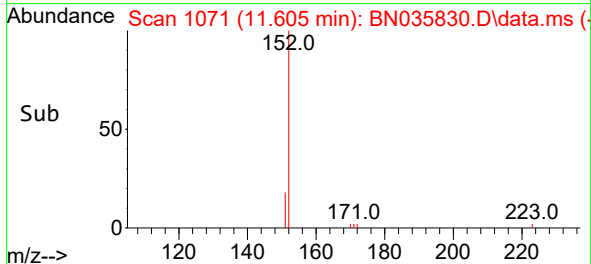
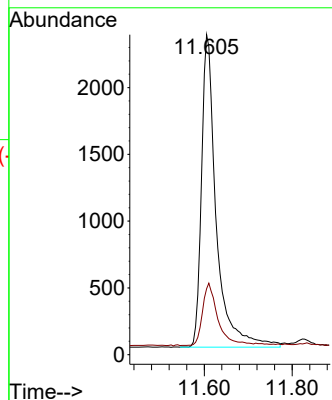
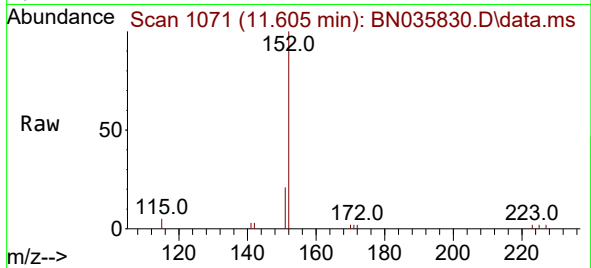




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

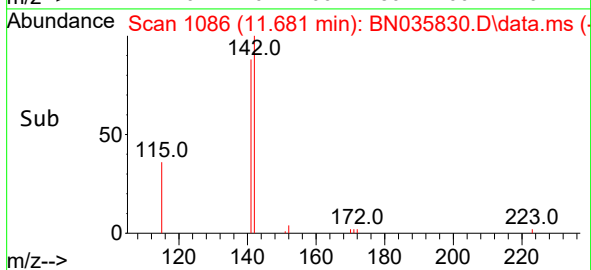
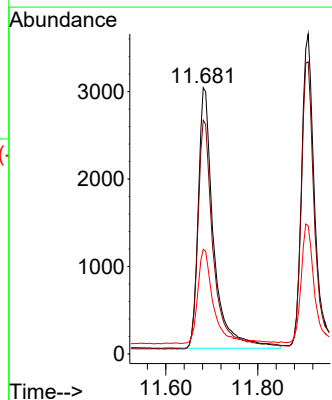
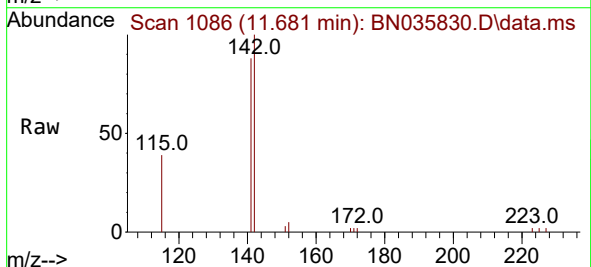
Instrument :
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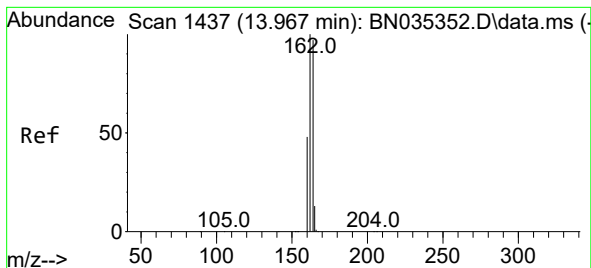
Tgt Ion:152 Resp: 5482
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:142 Resp: 6938
Ion Ratio Lower Upper
142 100
141 87.8 72.2 108.4
115 39.3 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.914 min Scan# 1437

Delta R.T. -0.022 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

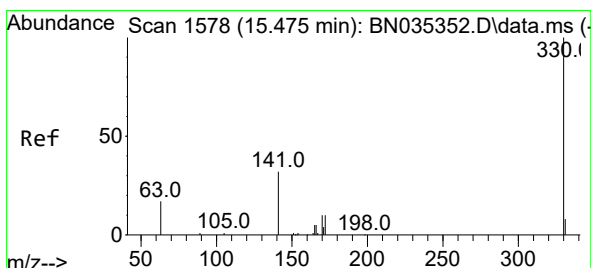
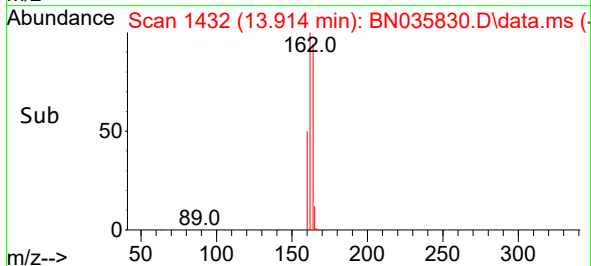
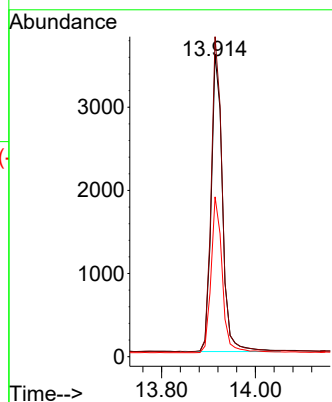
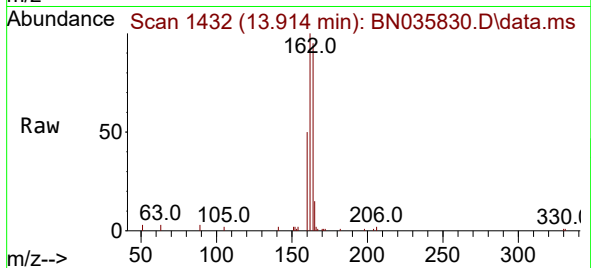
Tgt Ion:164 Resp: 5956

Ion Ratio Lower Upper

164 100

162 105.8 82.2 123.2

160 52.9 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.285 ng

RT: 15.443 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

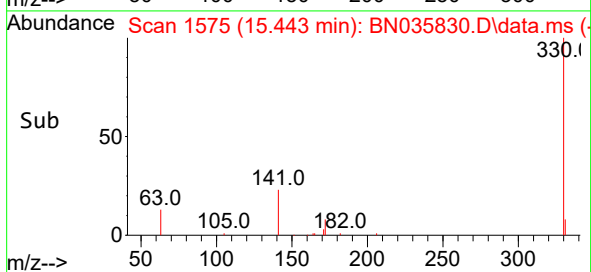
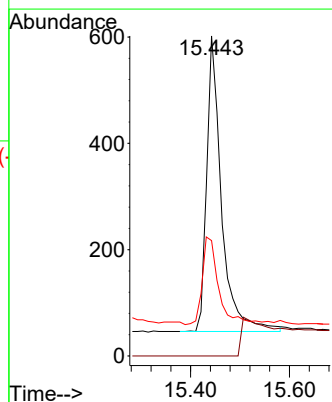
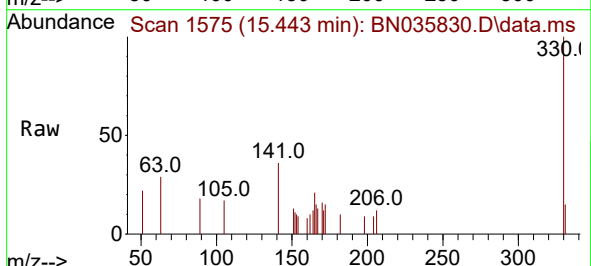
Tgt Ion:330 Resp: 1203

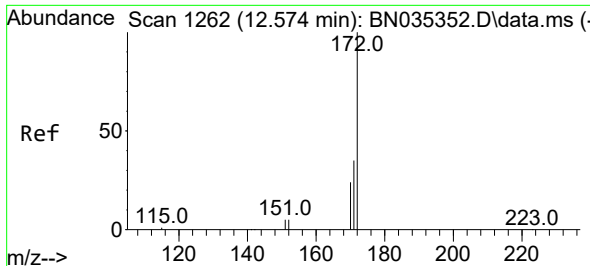
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 33.3 26.6 40.0

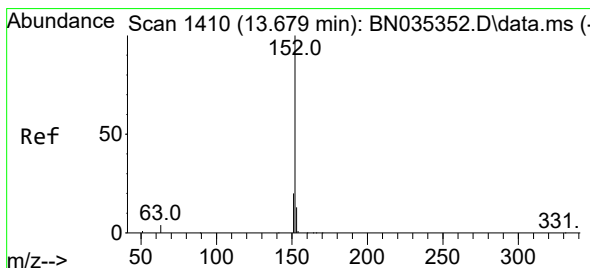
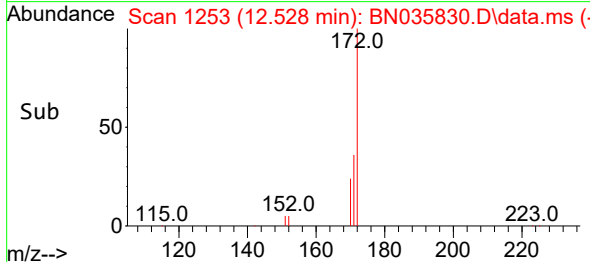
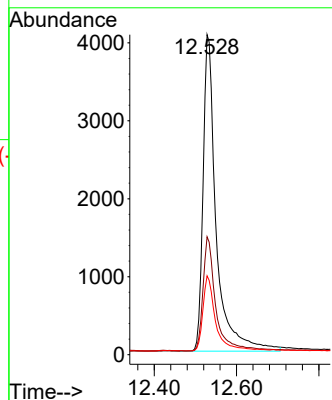
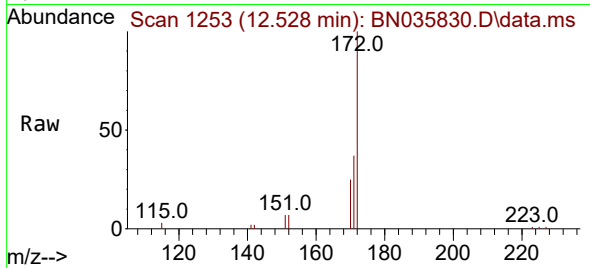




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

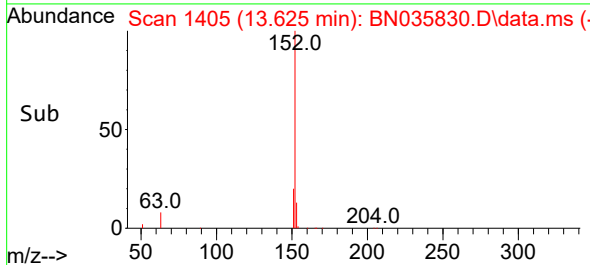
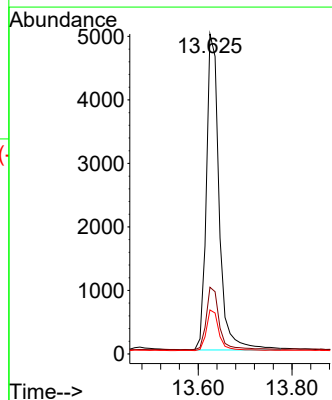
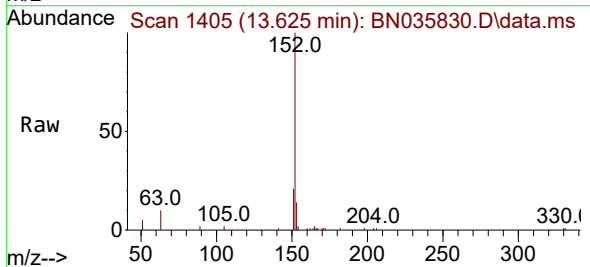
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

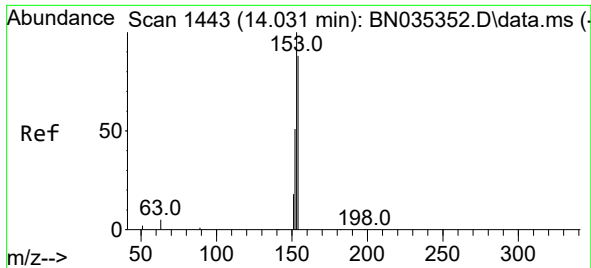
Tgt Ion:172	Resp:	9033
Ion Ratio	Lower	Upper
172	100	
171	36.9	29.0 43.4
170	24.7	19.8 29.8



#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152	Resp:	9384
Ion Ratio	Lower	Upper
152	100	
151	20.2	16.2 24.2
153	12.7	10.4 15.6

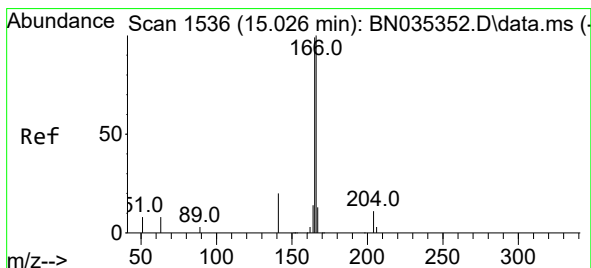
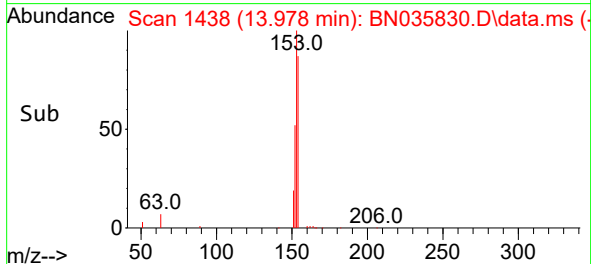
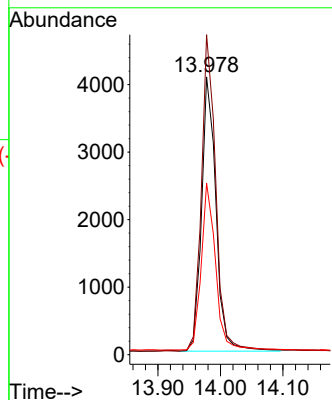
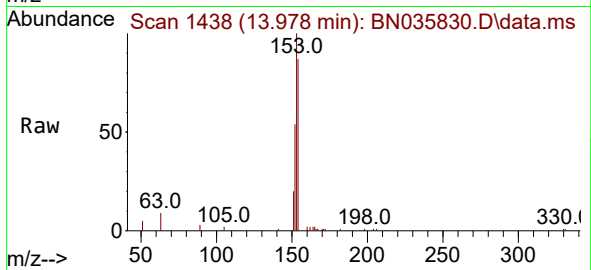




#17
Acenaphthene
Concen: 0.393 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

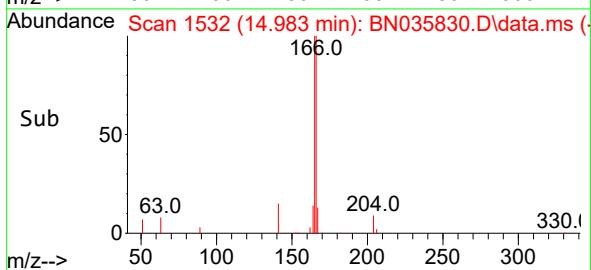
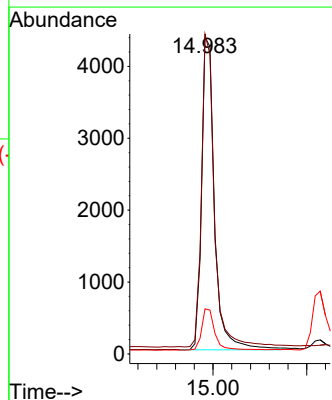
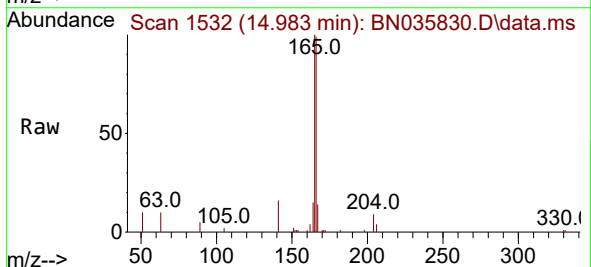
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

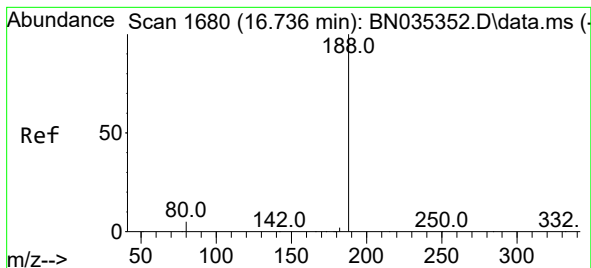
Tgt Ion:154 Resp: 6532
Ion Ratio Lower Upper
154 100
153 115.7 92.6 139.0
152 60.6 49.0 73.6



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:166 Resp: 8318
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: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

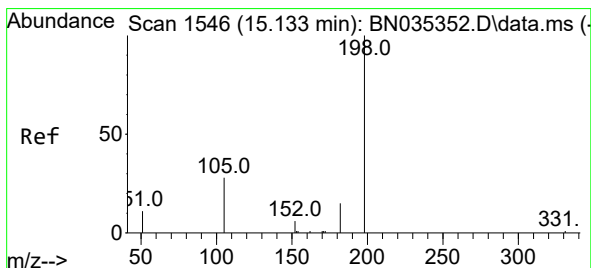
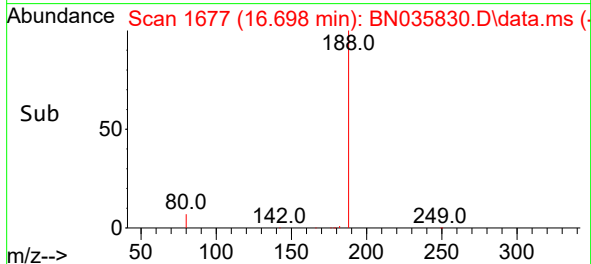
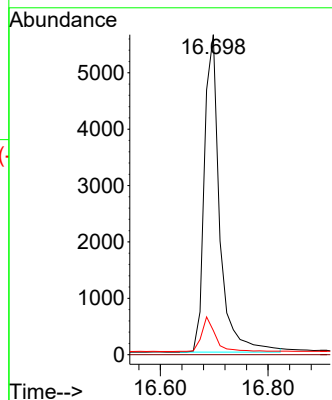
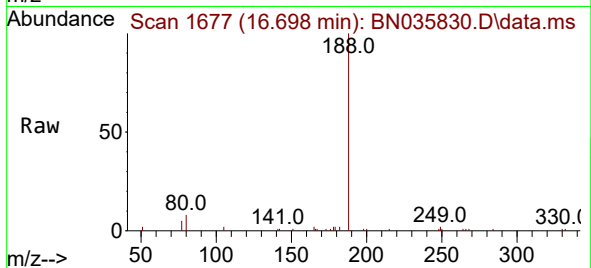
Tgt Ion:188 Resp: 11143

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: 0.275 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

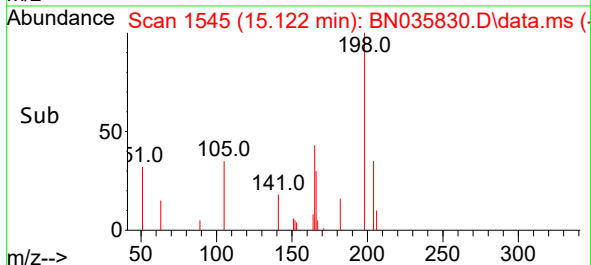
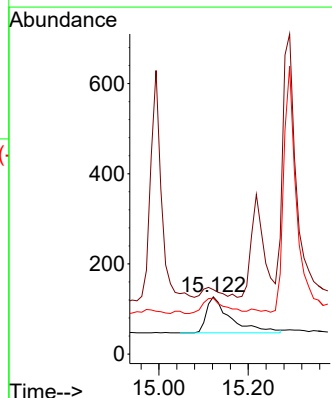
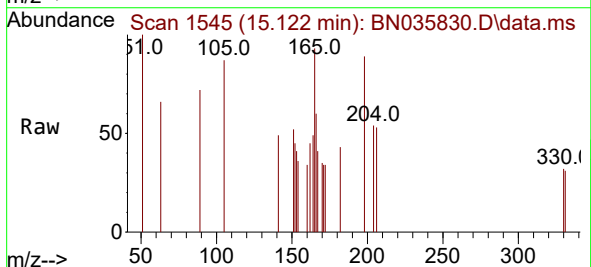
Tgt Ion:198 Resp: 301

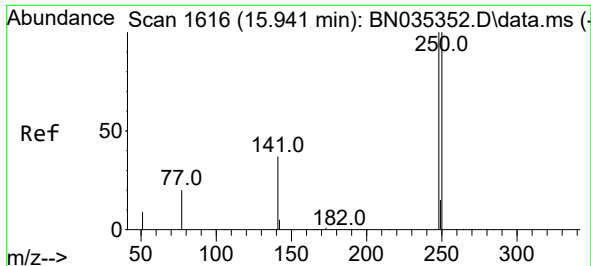
Ion Ratio Lower Upper

198 100

51 112.6 46.5 69.7#

105 97.6 45.3 67.9#

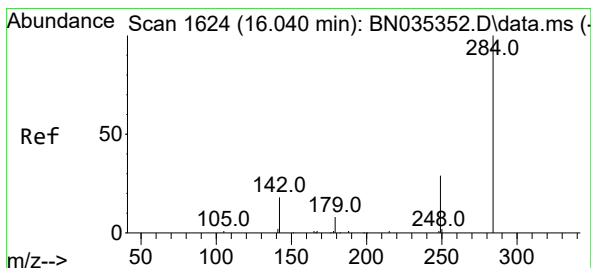
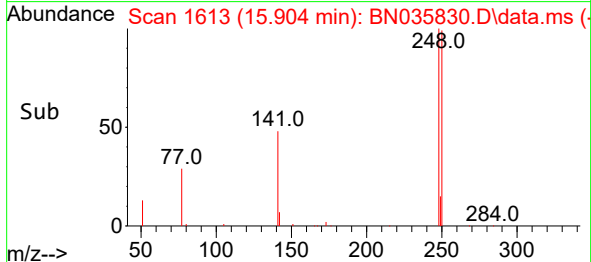
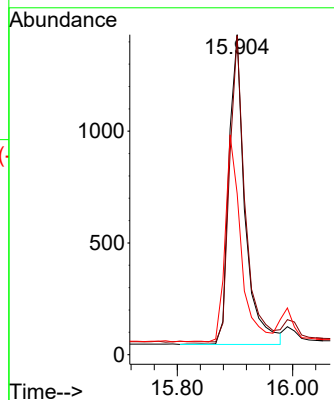
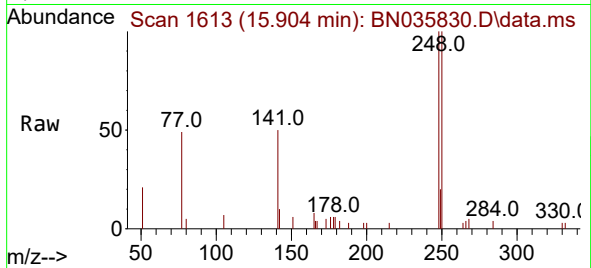




#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

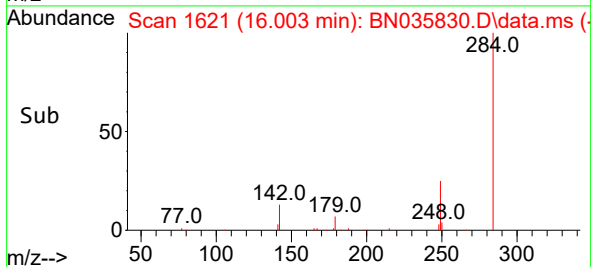
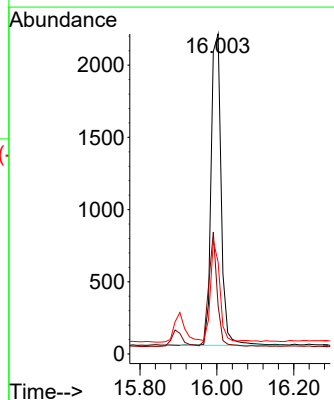
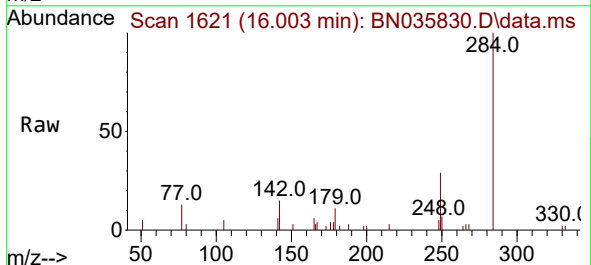
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

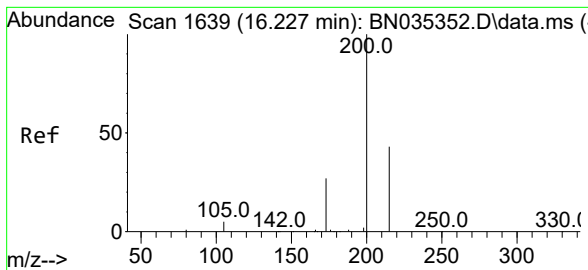
Tgt Ion:248 Resp: 2677
Ion Ratio Lower Upper
248 100
250 99.7 80.6 120.8
141 50.3 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.510 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:284 Resp: 3900
Ion Ratio Lower Upper
284 100
142 30.4 26.7 40.1
249 29.3 24.6 36.8





#23

Atrazine

Concen: 0.386 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

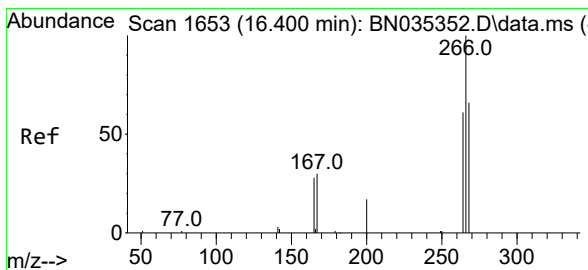
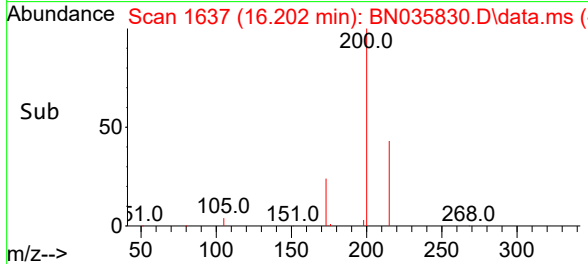
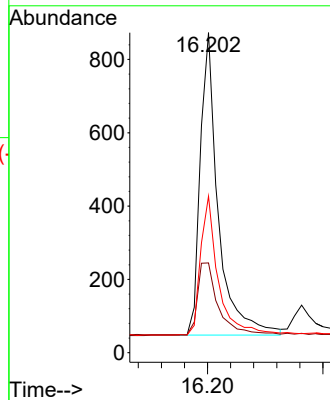
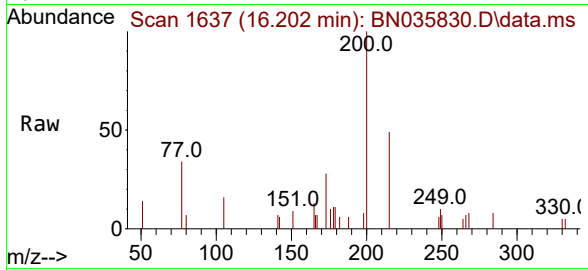
Tgt Ion:200 Resp: 1790

Ion Ratio Lower Upper

200 100

173 28.1 24.1 36.1

215 48.9 36.9 55.3



#24

Pentachlorophenol

Concen: 0.310 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.013 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

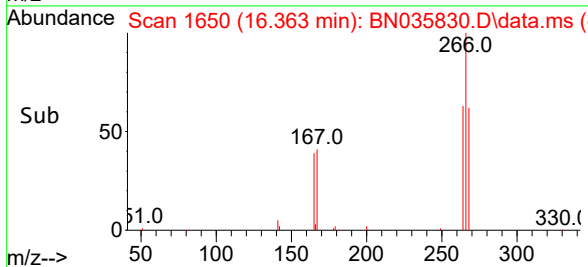
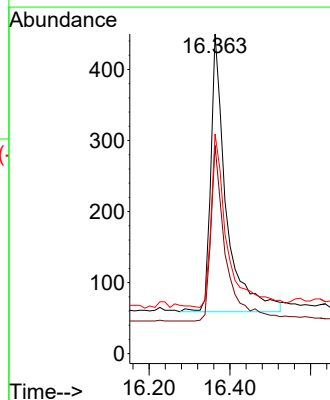
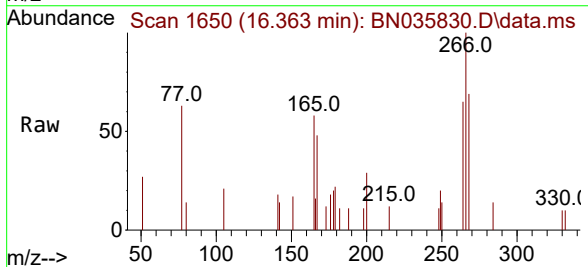
Tgt Ion:266 Resp: 1032

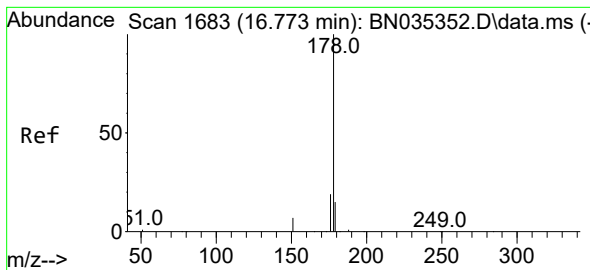
Ion Ratio Lower Upper

266 100

264 60.9 42.3 63.5

268 63.5 43.3 64.9





#25

Phenanthrene

Concen: 0.376 ng

RT: 16.735 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

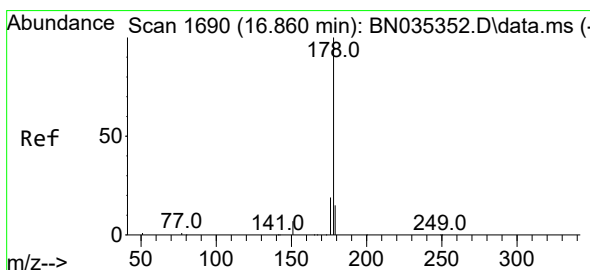
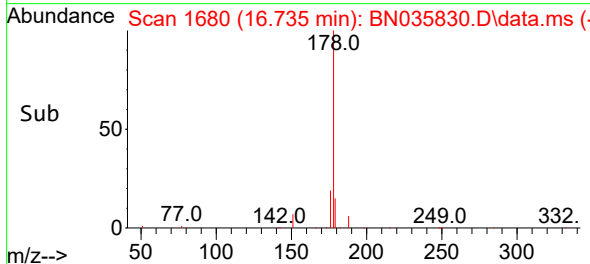
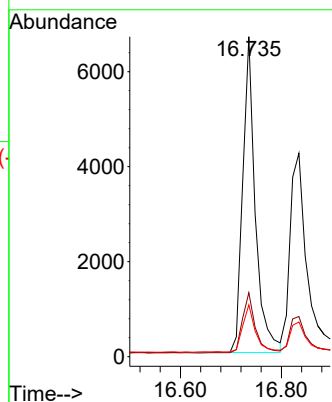
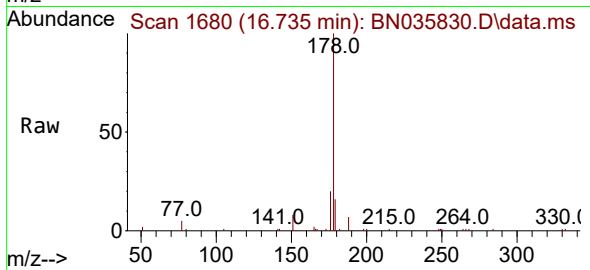
Tgt Ion:178 Resp: 11523

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.346 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

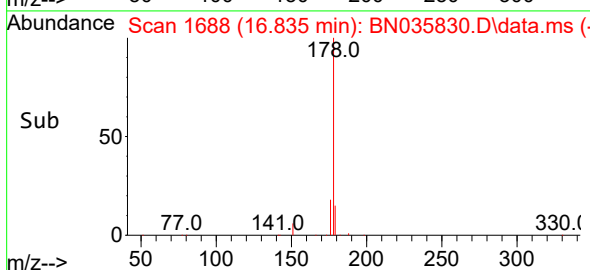
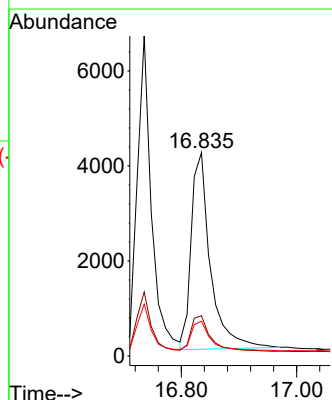
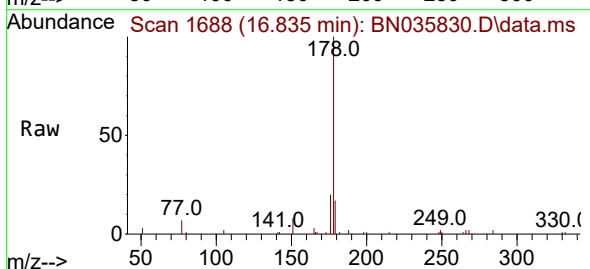
Tgt Ion:178 Resp: 9576

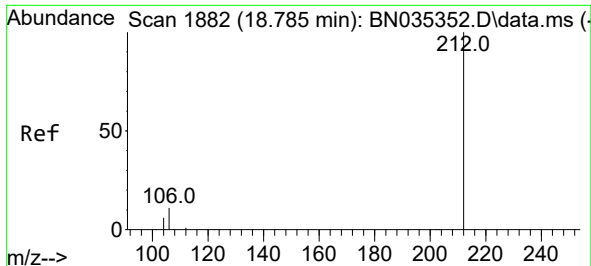
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

179 15.6 12.6 18.8

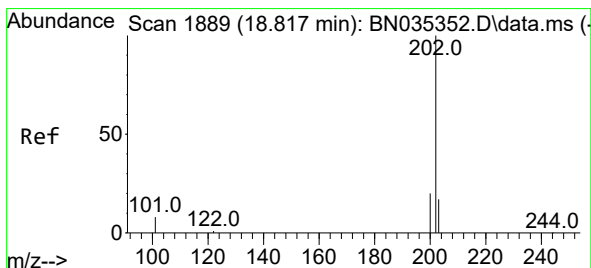
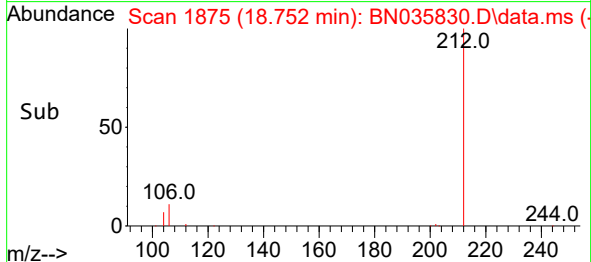
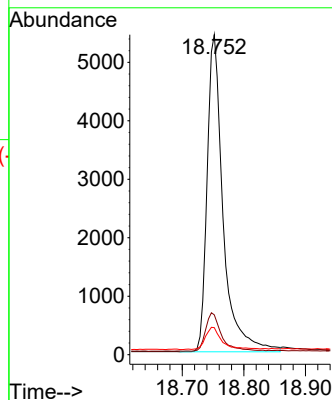
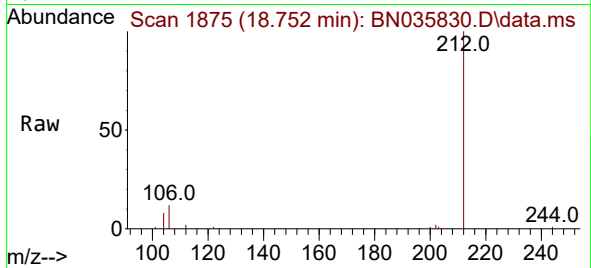




#27
Fluoranthene-d10
Concen: 0.308 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

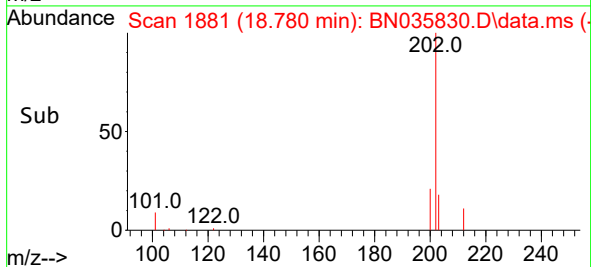
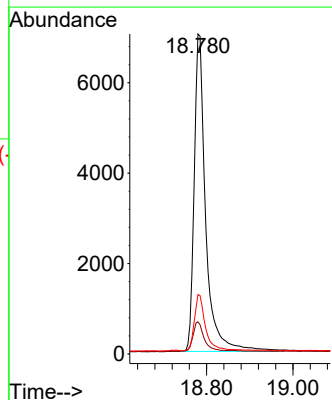
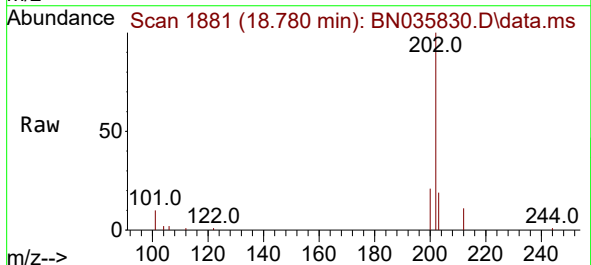
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

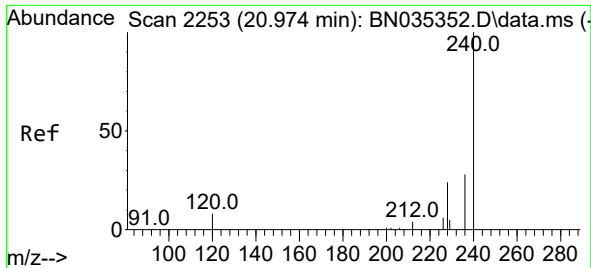
Tgt Ion:212 Resp: 9737
Ion Ratio Lower Upper
212 100
106 12.0 9.2 13.8
104 7.3 5.3 7.9



#28
Fluoranthene
Concen: 0.316 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13046
Ion Ratio Lower Upper
202 100
101 8.9 7.4 11.0
203 17.0 13.7 20.5

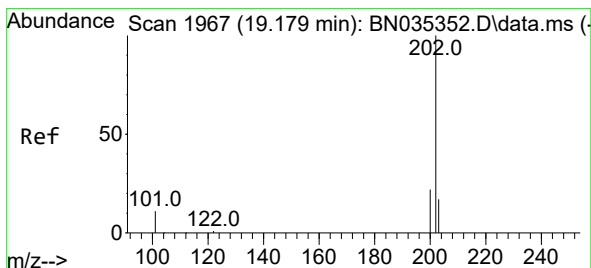
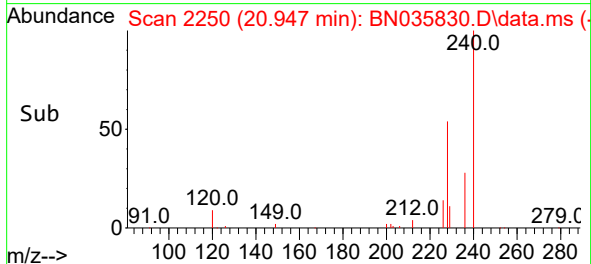
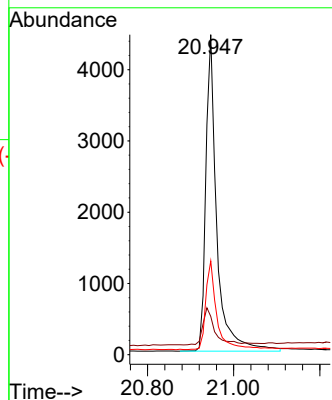
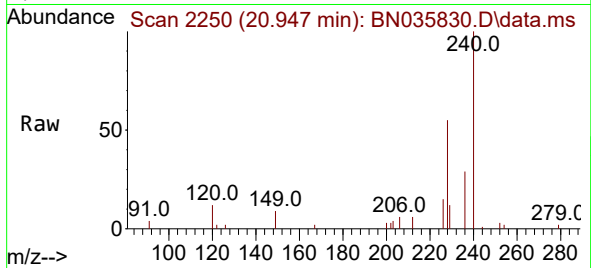




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

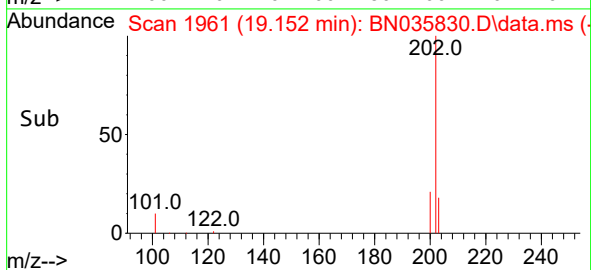
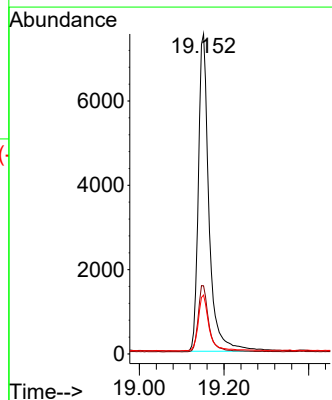
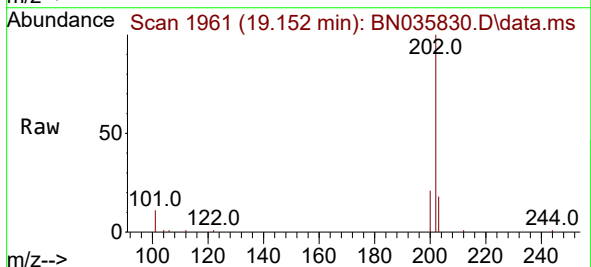
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

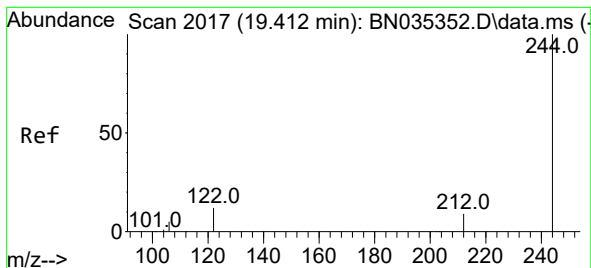
Tgt Ion:240 Resp: 7851
Ion Ratio Lower Upper
240 100
120 11.9 7.9 11.9#
236 29.3 22.9 34.3



#30
Pyrene
Concen: 0.454 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13156
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.422 ng

RT: 19.384 min Scan# 20

Delta R.T. -0.005 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

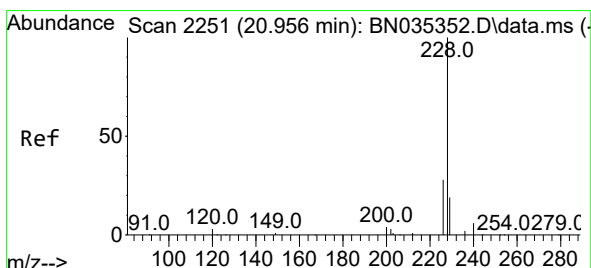
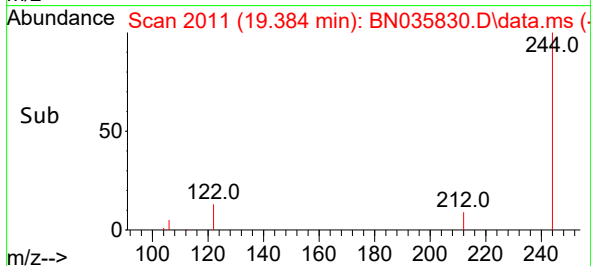
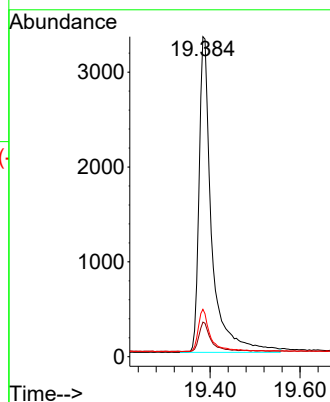
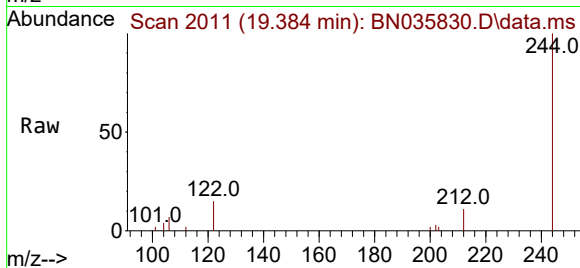
Tgt Ion:244 Resp: 6543

Ion Ratio Lower Upper

244 100

212 10.8 8.1 12.1

122 14.8 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.320 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.009 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

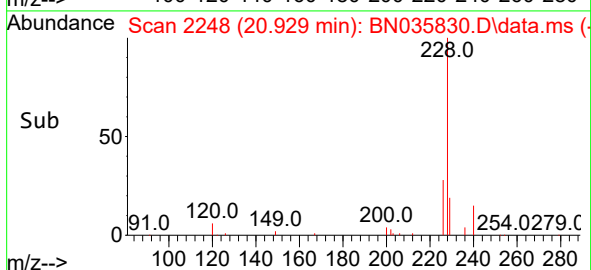
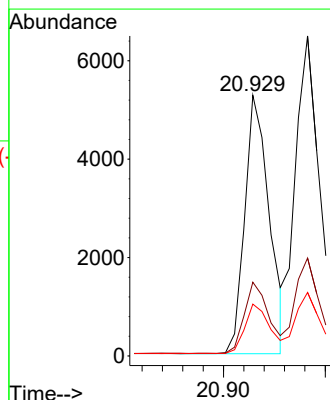
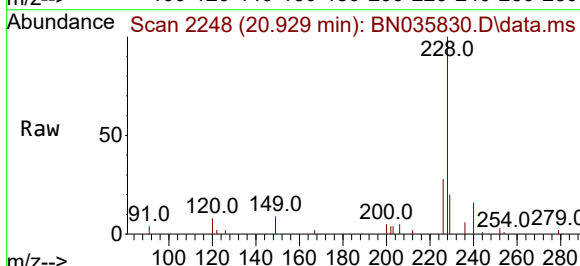
Tgt Ion:228 Resp: 8776

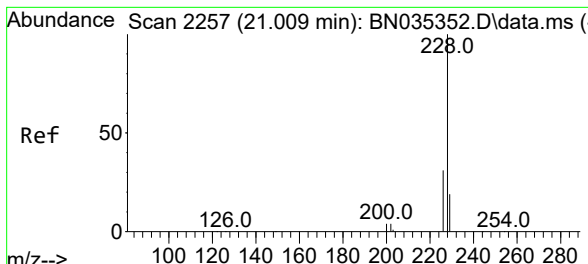
Ion Ratio Lower Upper

228 100

226 28.3 22.5 33.7

229 19.9 15.8 23.8



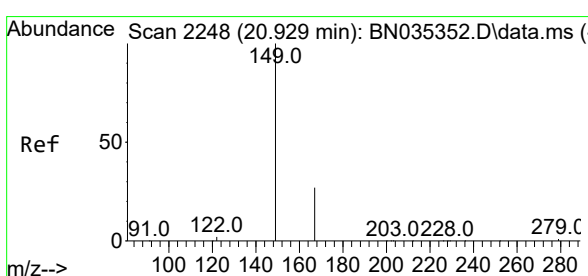
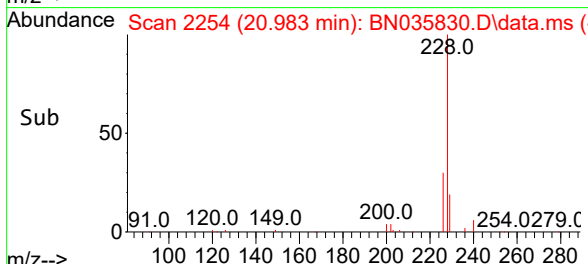
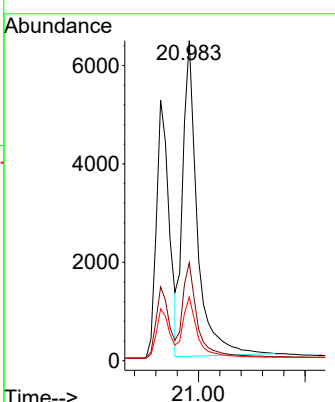
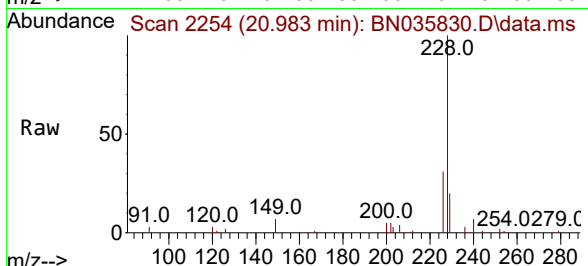


#33
 Chrysene
 Concen: 0.430 ng
 RT: 20.983 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN035830.D
 Acq: 24 Dec 2024 20:55

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:228 Resp: 12184

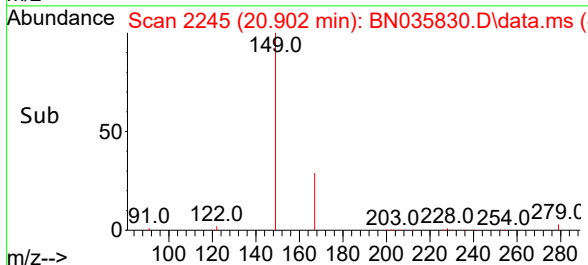
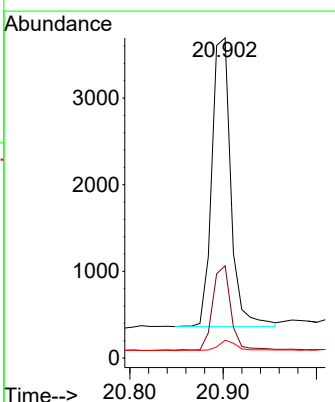
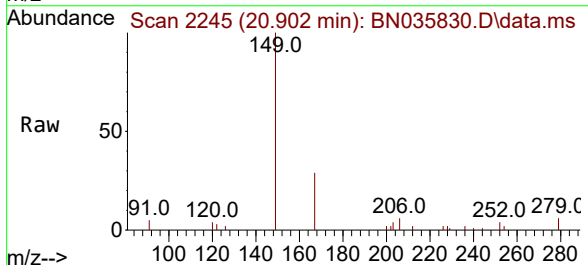
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.9	15.9	23.9

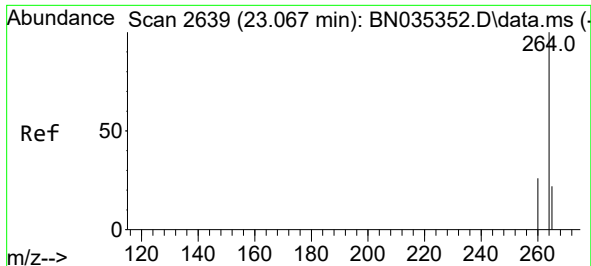


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.434 ng
 RT: 20.902 min Scan# 2245
 Delta R.T. -0.009 min
 Lab File: BN035830.D
 Acq: 24 Dec 2024 20:55

Tgt Ion:149 Resp: 4711

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

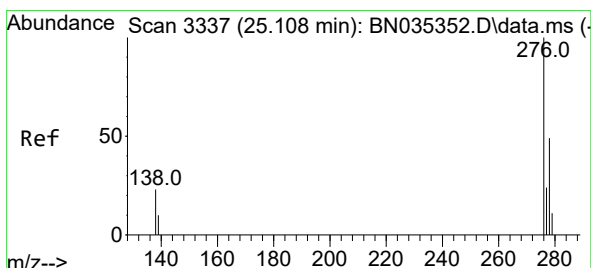
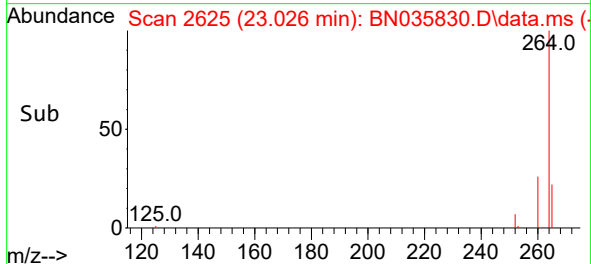
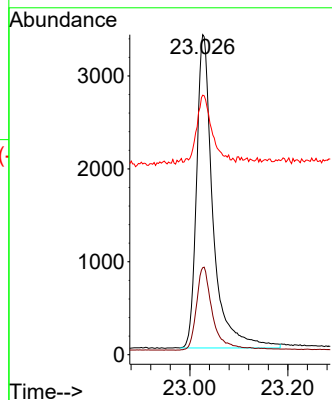
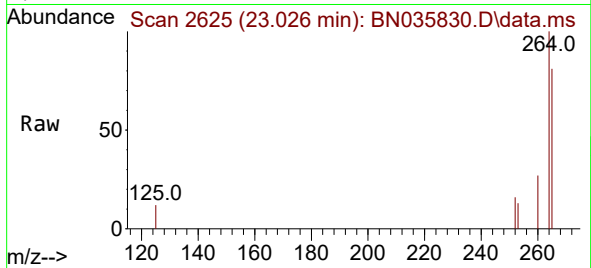




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

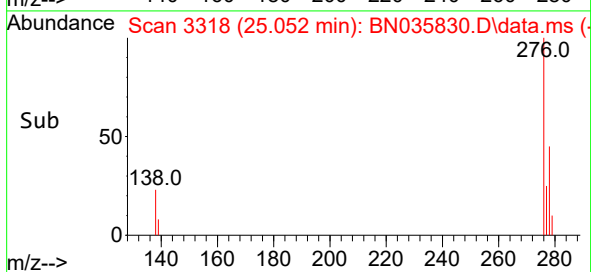
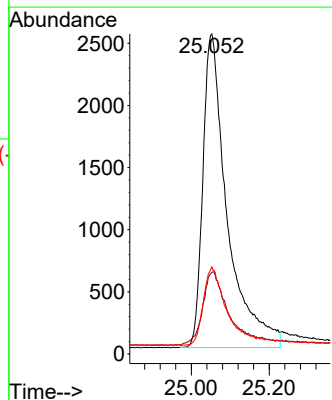
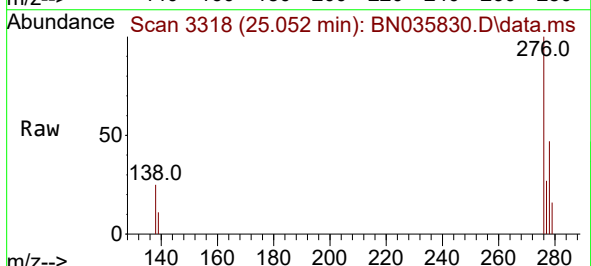
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

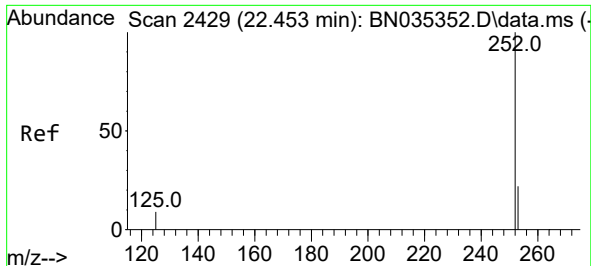
Tgt Ion:264 Resp: 7870
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 81.1 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 10972
Ion Ratio Lower Upper
276 100
138 24.1 19.4 29.0
277 23.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.501 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035830.D

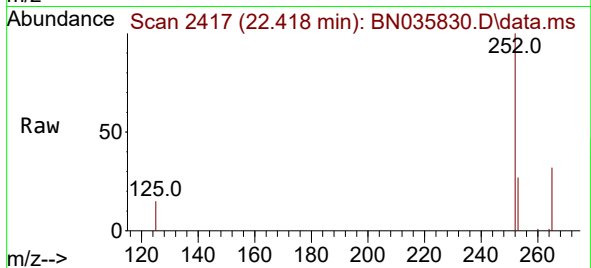
Acq: 24 Dec 2024 20:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



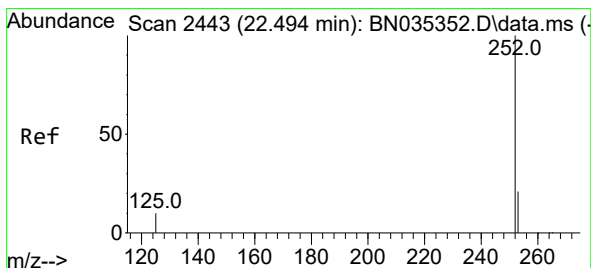
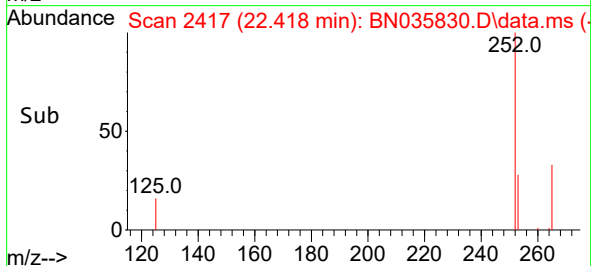
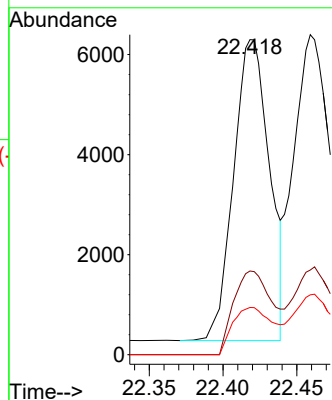
Tgt Ion:252 Resp: 14430

Ion Ratio Lower Upper

252 100

253 26.6 19.6 29.4

125 15.0 9.6 14.4#



#38

Benzo(k)fluoranthene

Concen: 0.509 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.053 min

Lab File: BN035830.D

Acq: 24 Dec 2024 20:55

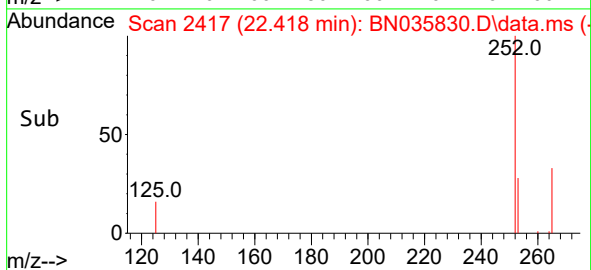
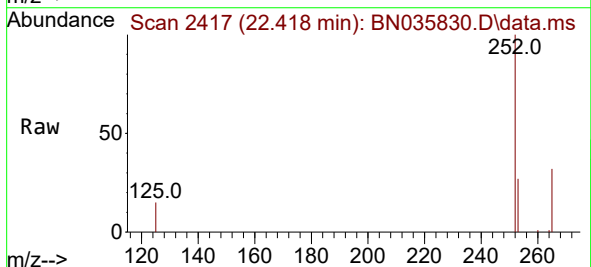
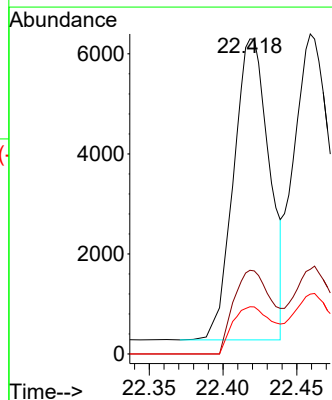
Tgt Ion:252 Resp: 14430

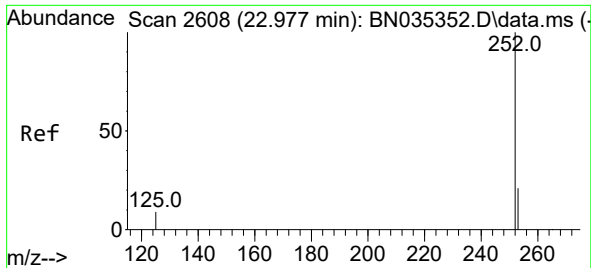
Ion Ratio Lower Upper

252 100

253 26.6 19.5 29.3

125 15.0 10.2 15.4

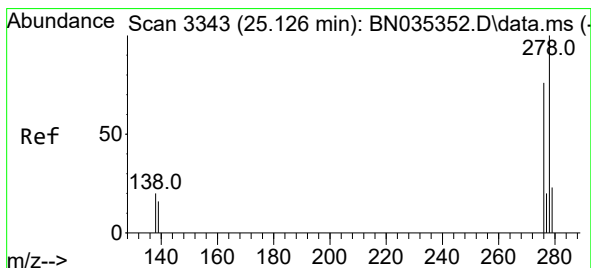
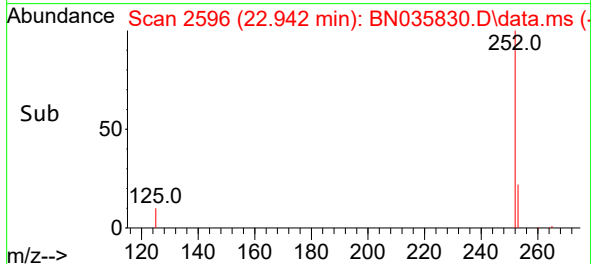
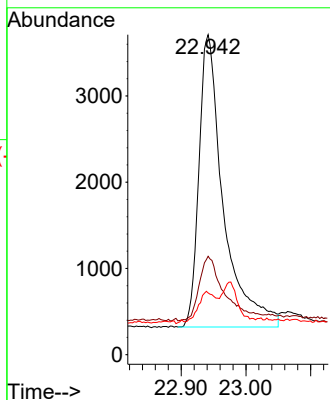
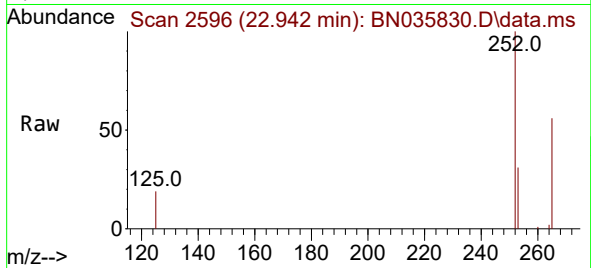




#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.942 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

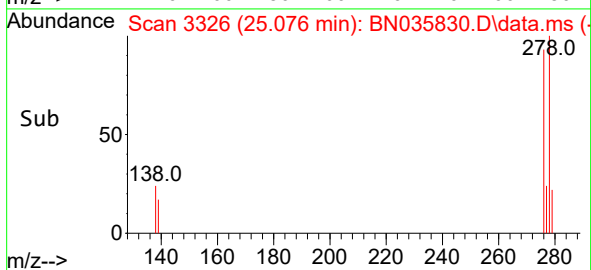
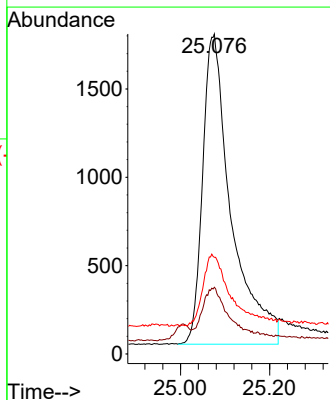
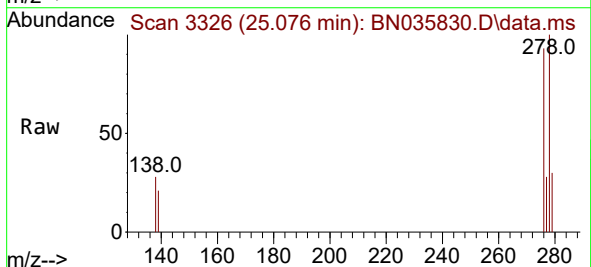
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

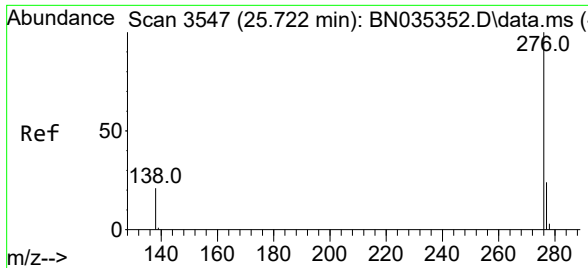
Tgt Ion:252 Resp: 8861
Ion Ratio Lower Upper
252 100
253 30.7 20.2 30.4#
125 19.3 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.321 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

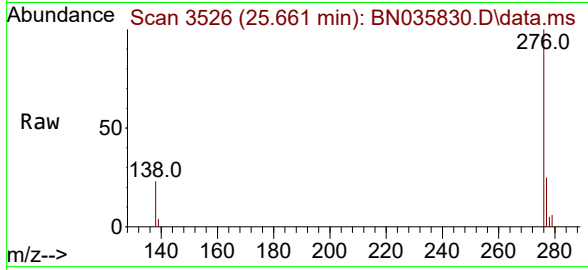
Tgt Ion:278 Resp: 7792
Ion Ratio Lower Upper
278 100
139 20.9 14.2 21.4
279 30.2 20.5 30.7



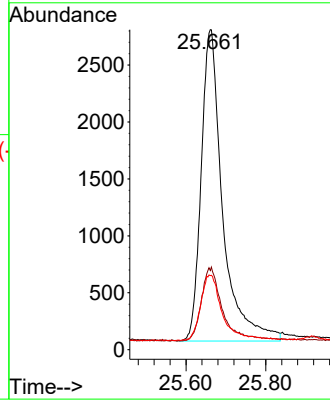
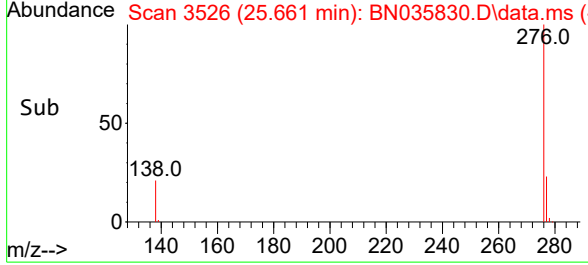


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.661 min Scan# 31
Delta R.T. -0.018 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:	276	Resp:	10218
Ion Ratio	Lower	Upper	
276	100		
277	24.8	19.9	29.9
138	23.2	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035833.D
 Acq On : 24 Dec 2024 23:18
 Operator : RC/JU
 Sample : P5376-16
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01S-20241219

Quant Time: Dec 25 02:35:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

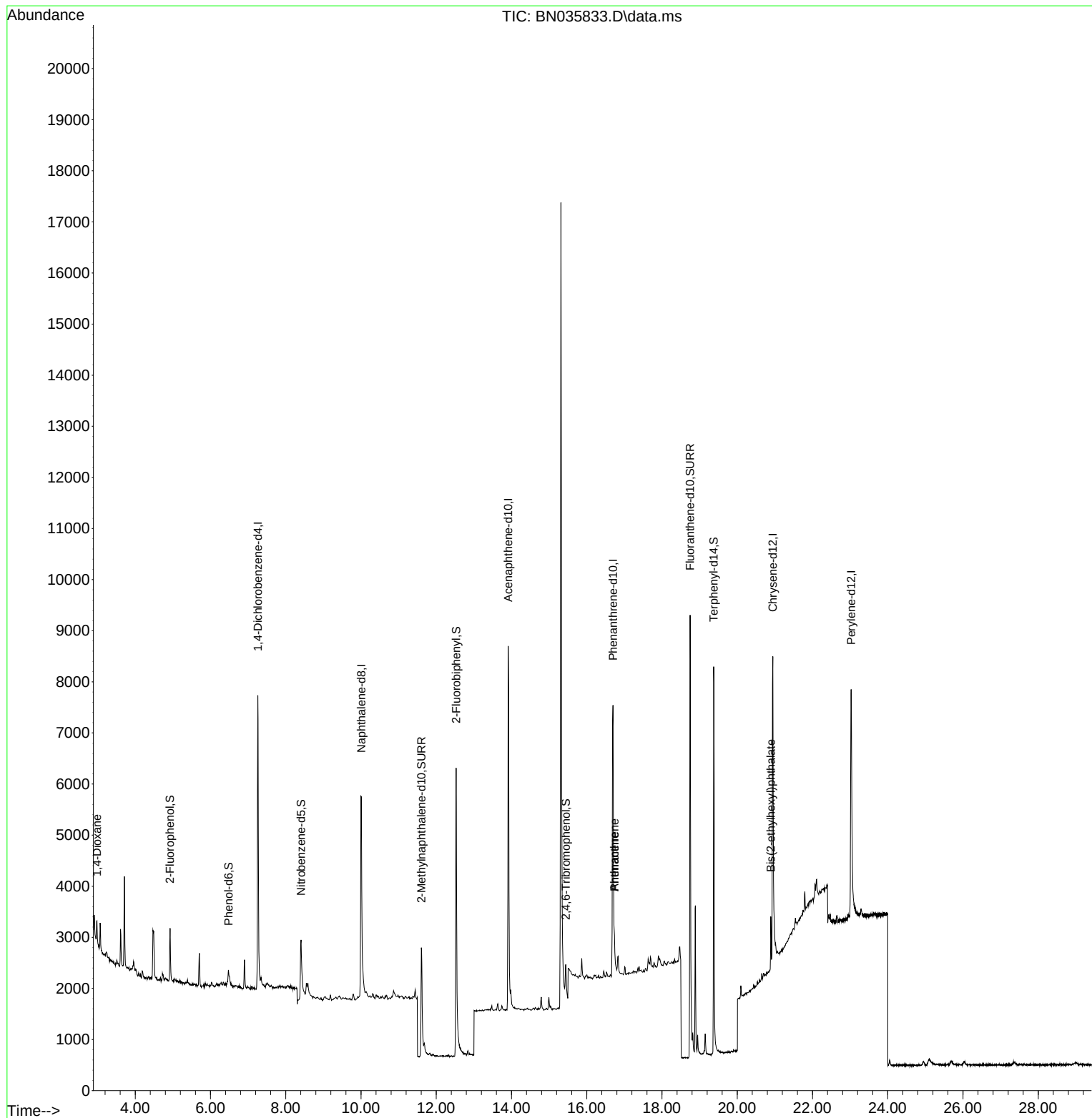
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3277	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7724	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	4815	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10024	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8069	0.400	ng	0.00
35) Perylene-d12	23.026	264	7784	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	965	0.118	ng	-0.01
5) Phenol-d6	6.477	99	504	0.051	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2228	0.472	ng	0.00
11) 2-Methylnaphthalene-d10	11.605	152	4512	0.373	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	723	0.212	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7112	0.391	ng	-0.02
27) Fluoranthene-d10	18.747	212	11675	0.411	ng	-0.01
31) Terphenyl-d14	19.375	244	8422	0.529	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	506	0.162	ng	# 77
25) Phenanthrene	16.736	178	582	0.021	ng	# 92
26) Anthracene	16.736	178	569	0.023	ng	94
34) Bis(2-ethylhexyl)phtha...	20.893	149	981	0.088	ng	# 98

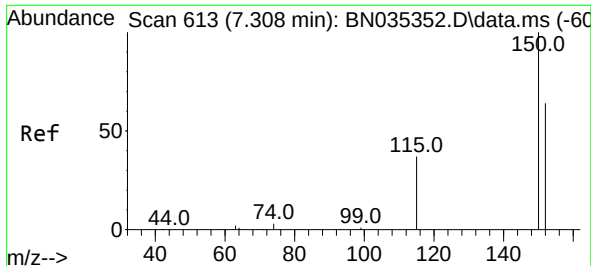
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

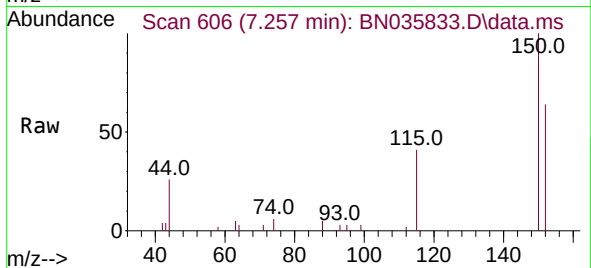
Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



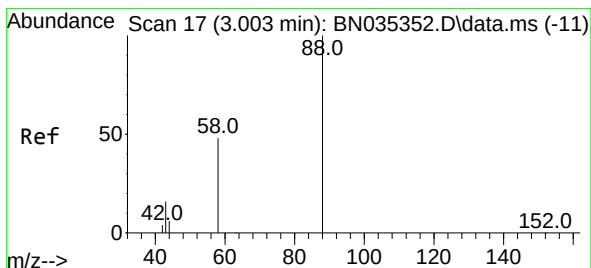
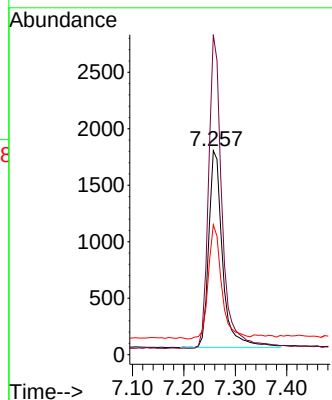
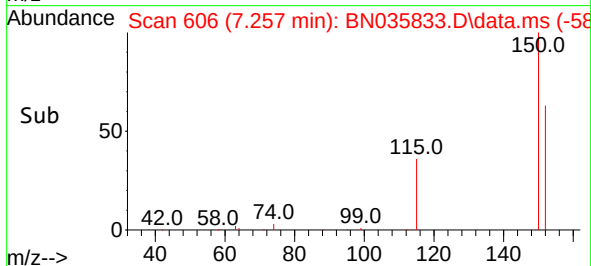


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035833.D
 Acq: 24 Dec 2024 23:18

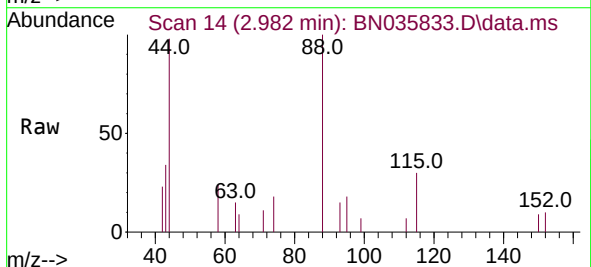
Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01S-20241219



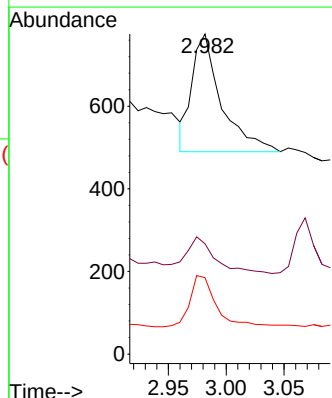
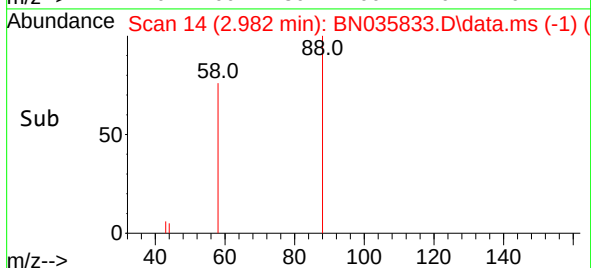
Tgt Ion:152 Resp: 3277
 Ion Ratio Lower Upper
 152 100
 150 156.9 124.0 186.0
 115 63.7 49.6 74.4

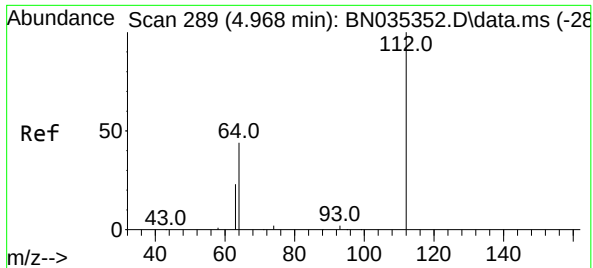


#2
 1,4-Dioxane
 Concen: 0.162 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035833.D
 Acq: 24 Dec 2024 23:18



Tgt Ion: 88 Resp: 506
 Ion Ratio Lower Upper
 88 100
 43 32.0 17.2 25.8#
 58 38.5 44.5 66.7#

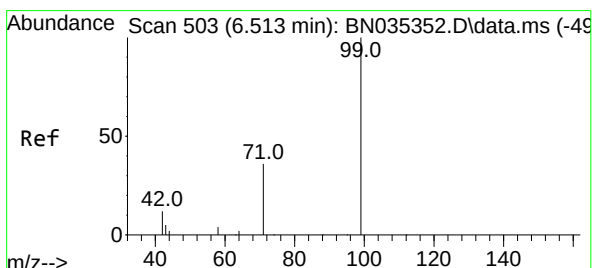
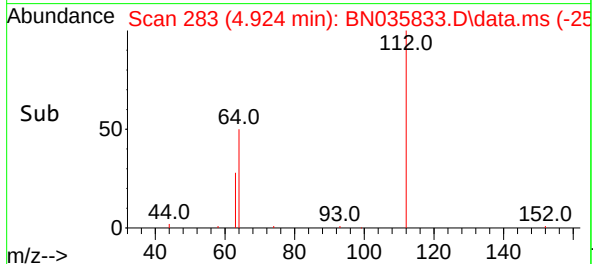
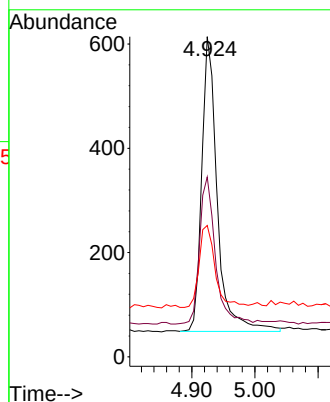
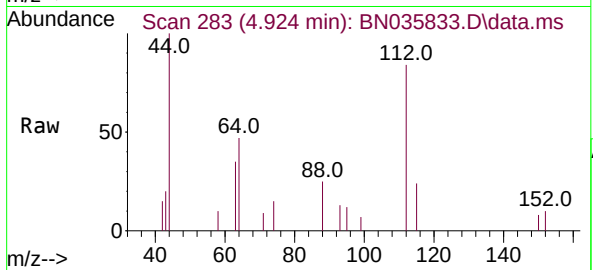




#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

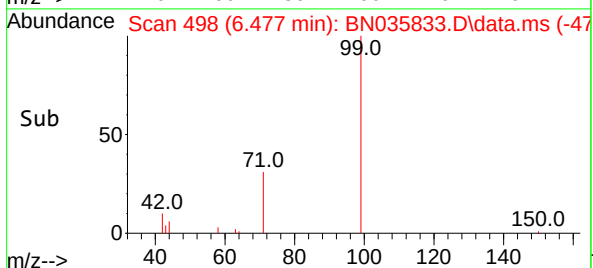
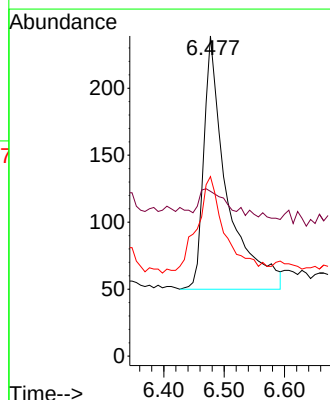
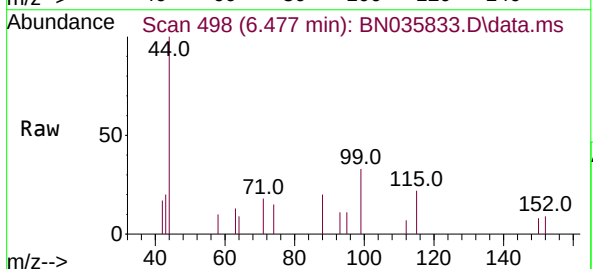
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

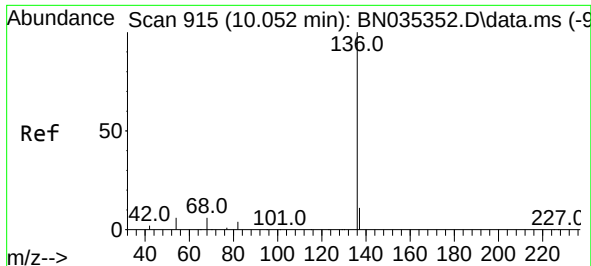
Tgt Ion:	112	Resp:	965
Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	28.6	21.0	31.6



#5
Phenol-d6
Concen: 0.051 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:	99	Resp:	504
Ion	Ratio	Lower	Upper
99	100		
42	12.7	11.4	17.2
71	47.0	29.3	43.9

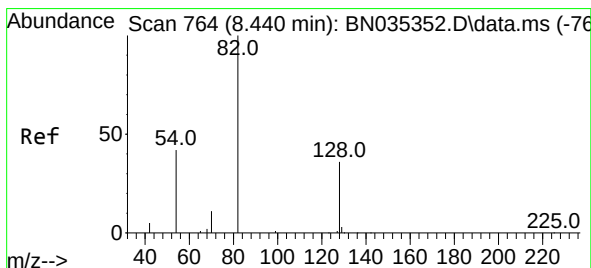
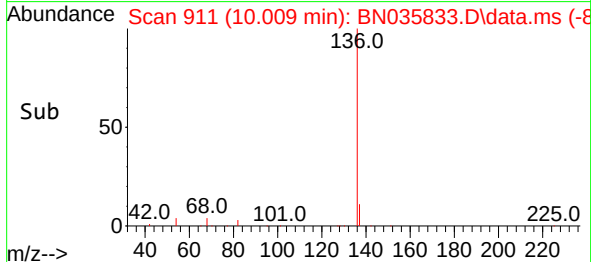
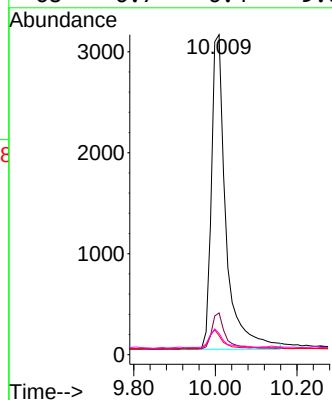
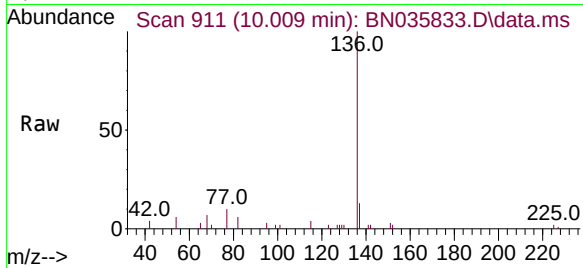




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

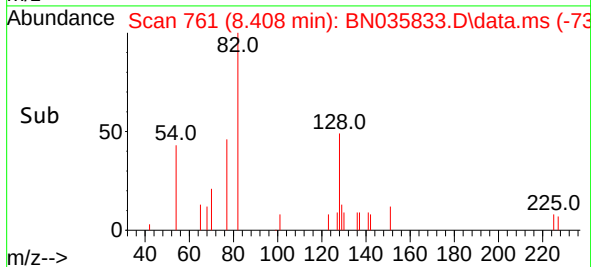
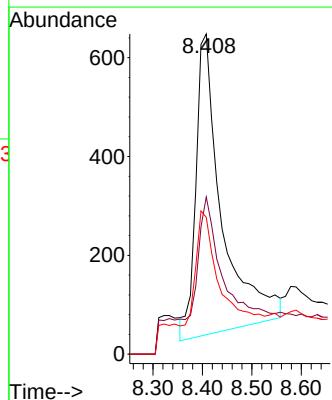
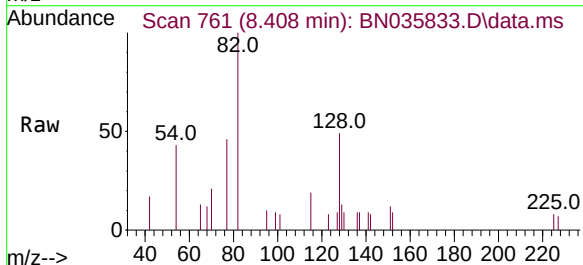
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

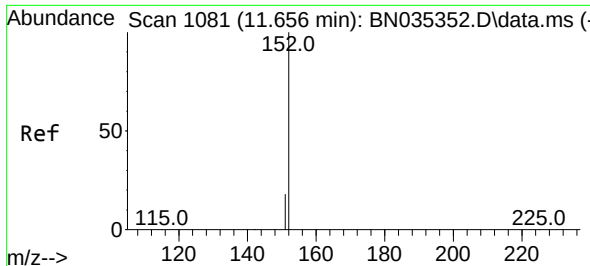
Tgt Ion:	136	Resp:	7724
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	6.0	6.1	9.1#
68	6.7	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.472 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:	82	Resp:	2228
Ion	Ratio	Lower	Upper
82	100		
128	49.1	33.4	50.0
54	42.7	36.7	55.1

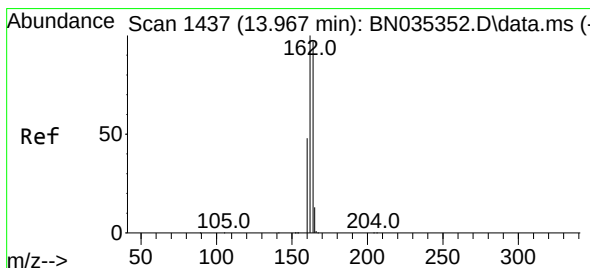
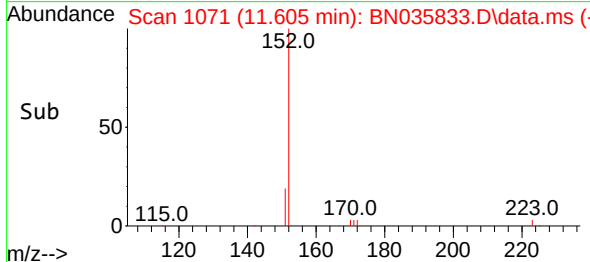
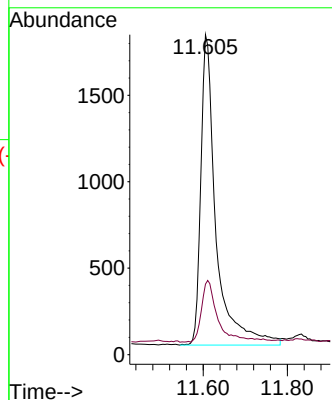
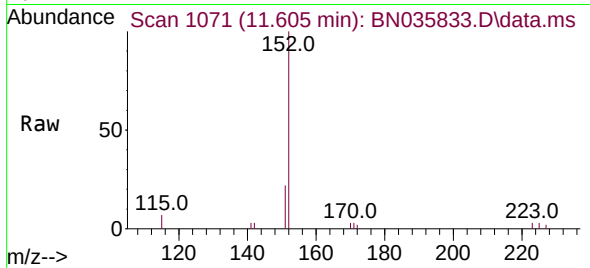




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

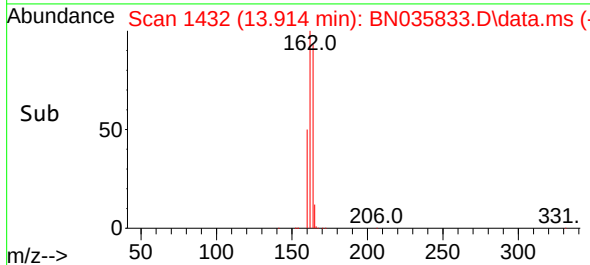
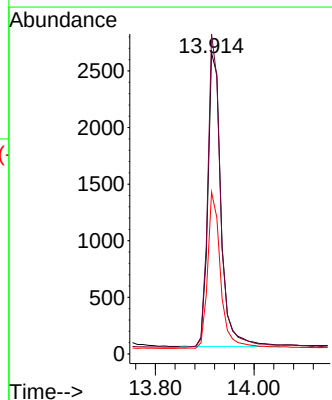
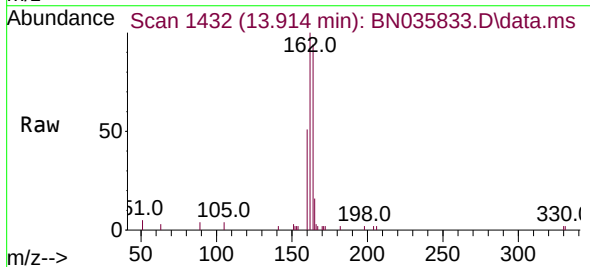
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

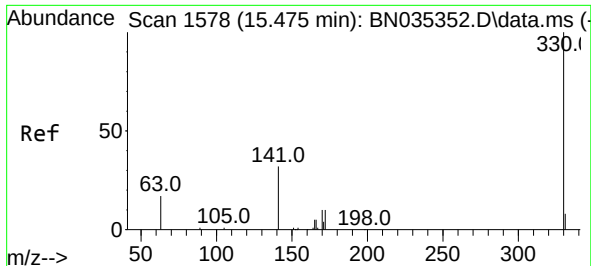
Tgt Ion:152 Resp: 4512
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:164 Resp: 4815
Ion Ratio Lower Upper
164 100
162 106.3 82.2 123.2
160 53.8 40.1 60.1





#14

2,4,6-Tribromophenol

Concen: 0.212 ng

RT: 15.443 min Scan# 11

Delta R.T. -0.011 min

Lab File: BN035833.D

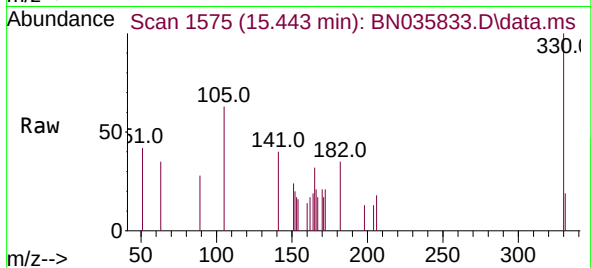
Acq: 24 Dec 2024 23:18

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20241219



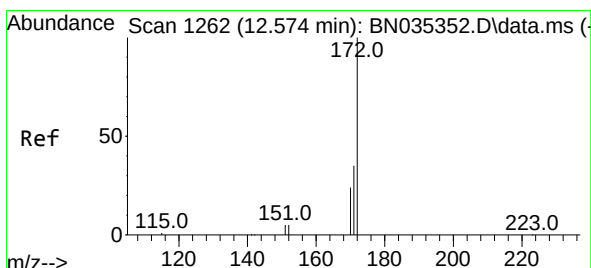
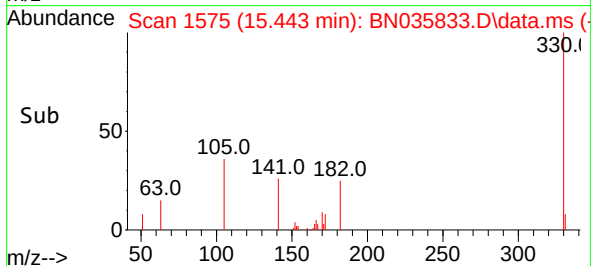
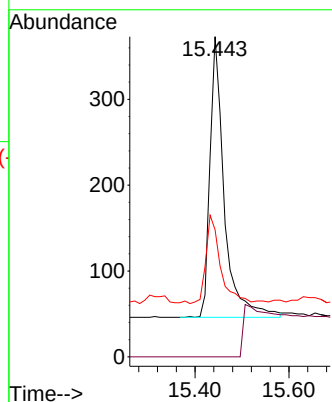
Tgt Ion:330 Resp: 723

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 31.5 26.6 40.0



#15

2-Fluorobiphenyl

Concen: 0.391 ng

RT: 12.528 min Scan# 1253

Delta R.T. -0.015 min

Lab File: BN035833.D

Acq: 24 Dec 2024 23:18

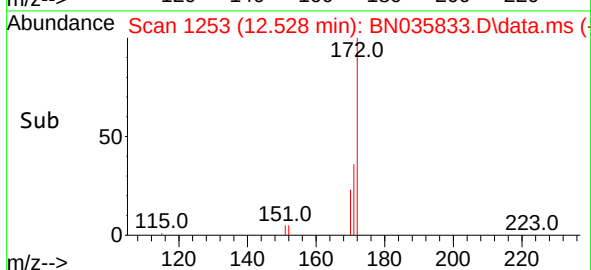
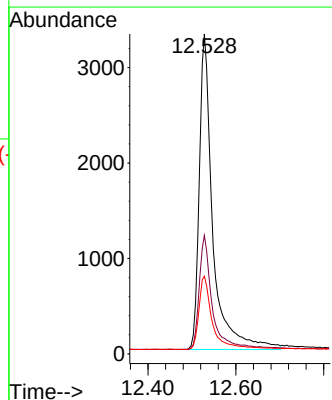
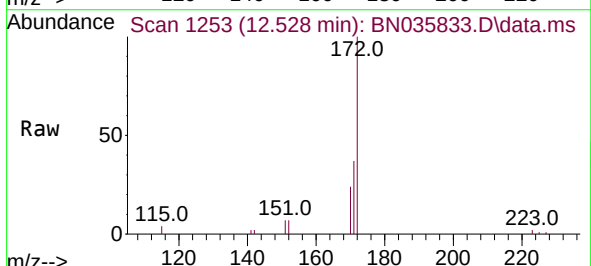
Tgt Ion:172 Resp: 7112

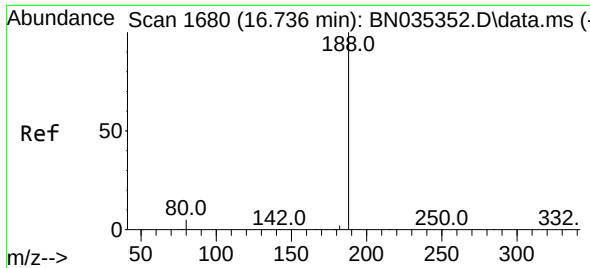
Ion Ratio Lower Upper

172 100

171 37.1 29.0 43.4

170 24.3 19.8 29.8

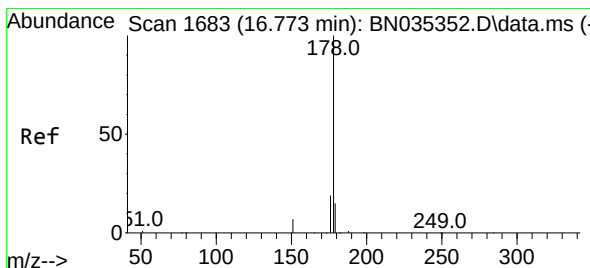
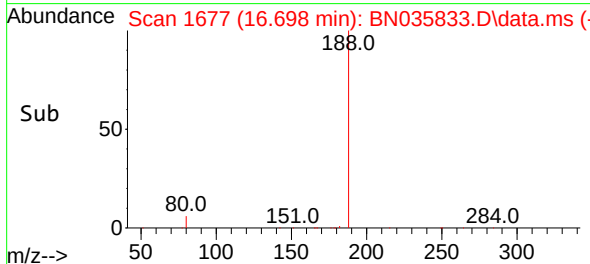
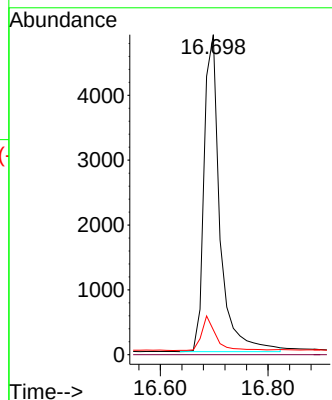
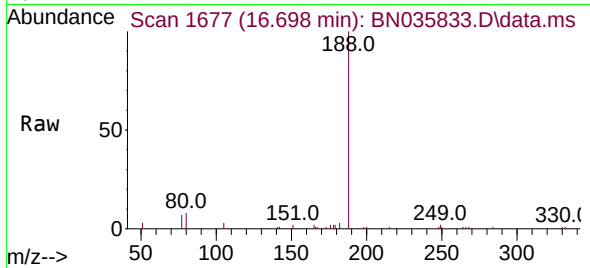




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

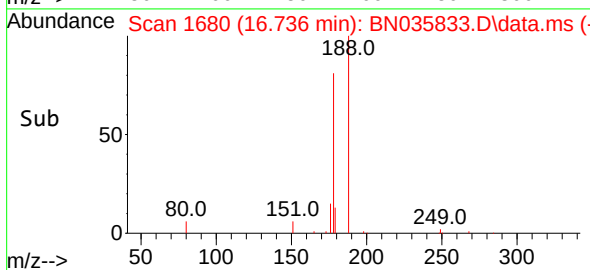
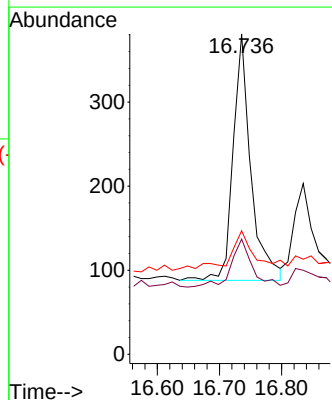
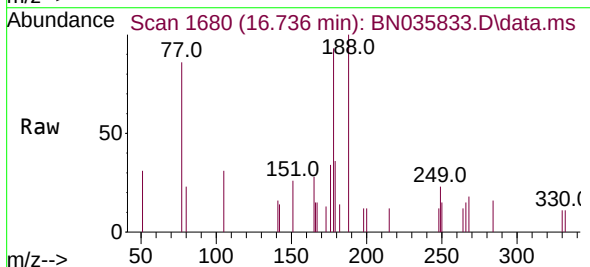
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

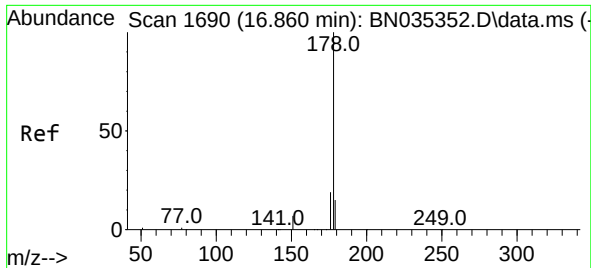
Tgt Ion:188 Resp: 10024
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.8 4.6 6.8#



#25
Phenanthrene
Concen: 0.021 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:178 Resp: 582
Ion Ratio Lower Upper
178 100
176 23.0 15.4 23.2
179 18.7 12.3 18.5#

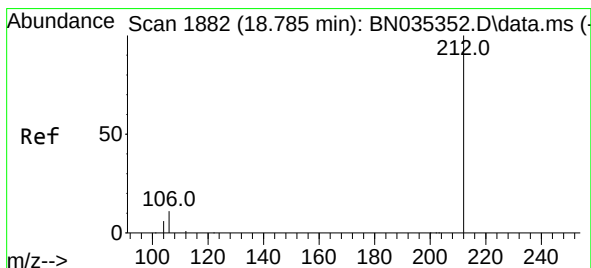
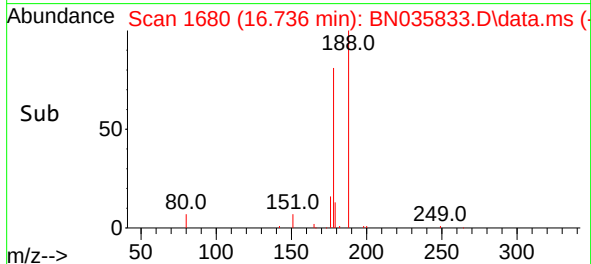
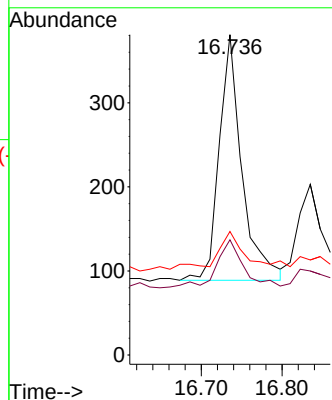
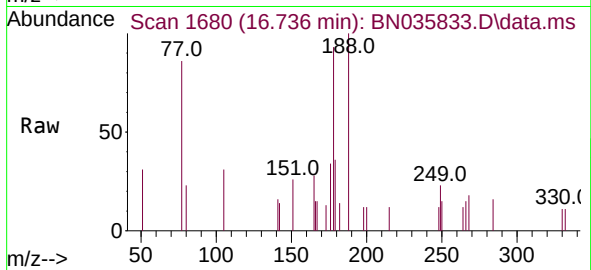




#26
 Anthracene
 Concen: 0.023 ng
 RT: 16.736 min Scan# 1680
 Delta R.T. -0.099 min
 Lab File: BN035833.D
 Acq: 24 Dec 2024 23:18

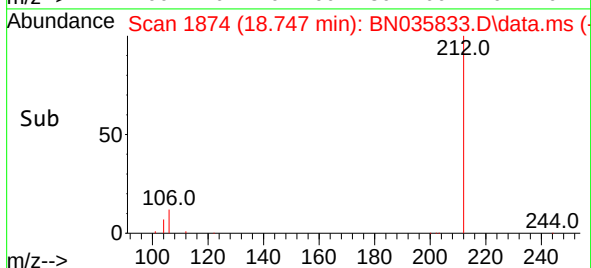
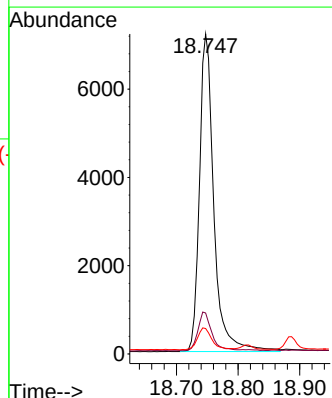
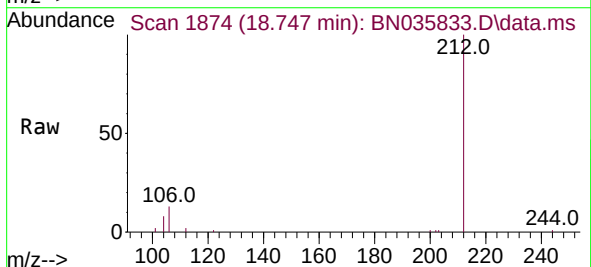
Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01S-20241219

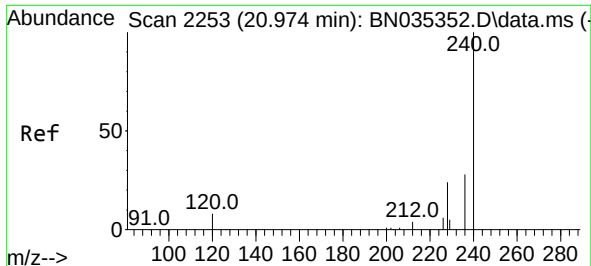
Tgt Ion:	178	Resp:	569
Ion	Ratio	Lower	Upper
178	100		
176	22.0	15.0	22.6
179	18.1	12.6	18.8



#27
 Fluoranthene-d10
 Concen: 0.411 ng
 RT: 18.747 min Scan# 1874
 Delta R.T. -0.014 min
 Lab File: BN035833.D
 Acq: 24 Dec 2024 23:18

Tgt Ion:	212	Resp:	11675
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9

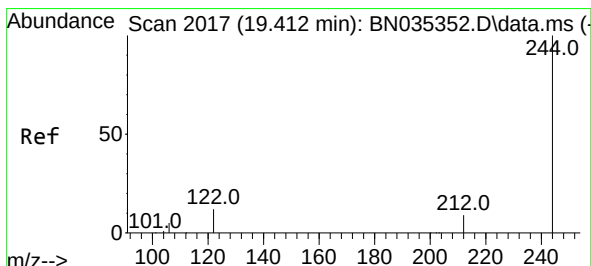
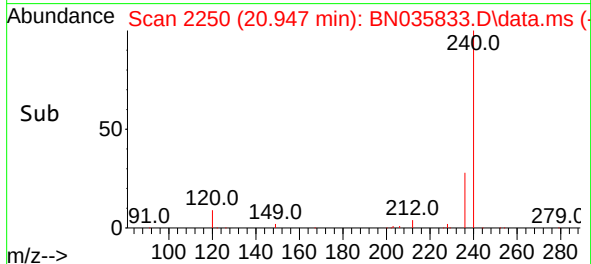
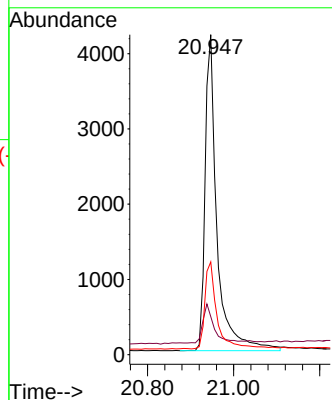
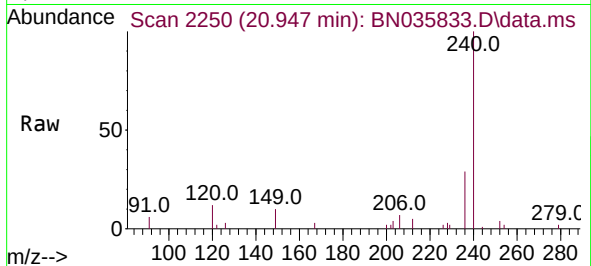




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

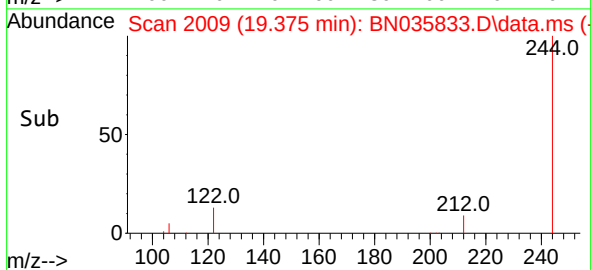
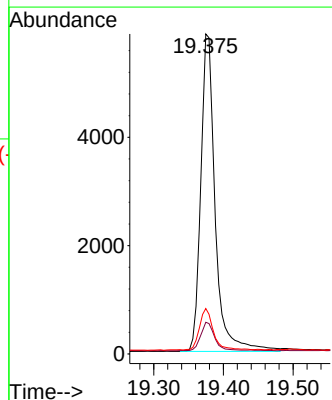
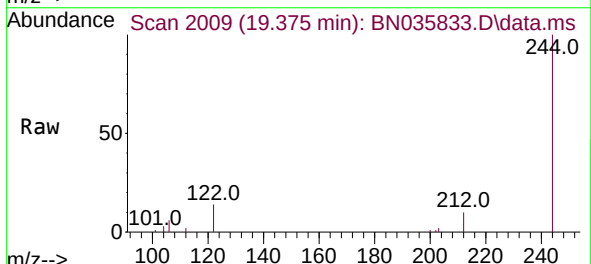
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

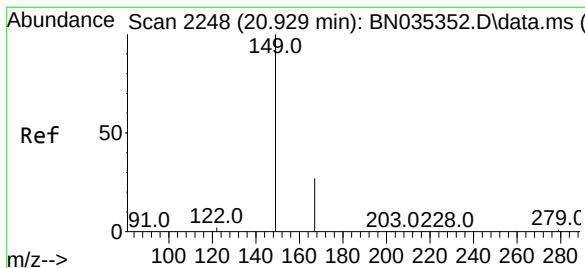
Tgt Ion:240 Resp: 8069
Ion Ratio Lower Upper
240 100
120 11.9 7.9 11.9
236 29.0 22.9 34.3



#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:244 Resp: 8422
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 14.2 10.3 15.5





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.088 ng

RT: 20.893 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035833.D

Acq: 24 Dec 2024 23:18

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20241219

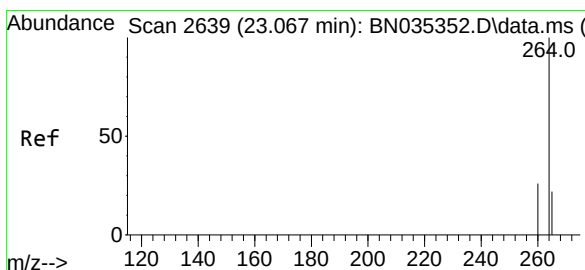
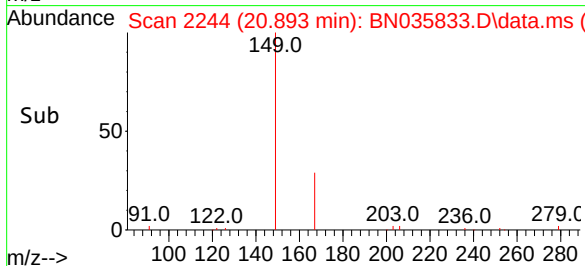
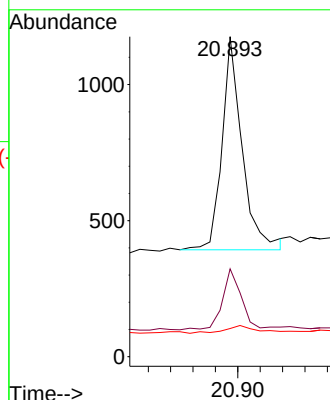
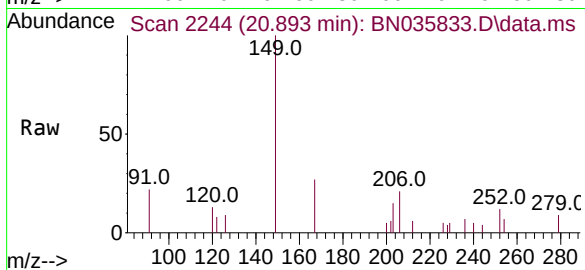
Tgt Ion:149 Resp: 981

Ion Ratio Lower Upper

149 100

167 27.2 22.2 33.4

279 6.7 2.7 4.1#



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.026 min Scan# 2625

Delta R.T. -0.015 min

Lab File: BN035833.D

Acq: 24 Dec 2024 23:18

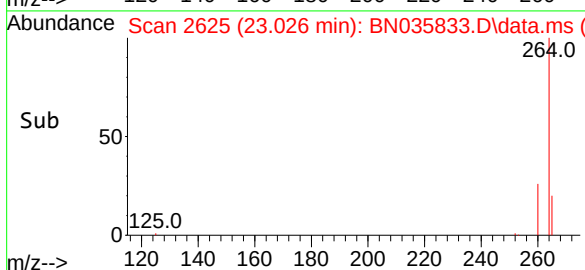
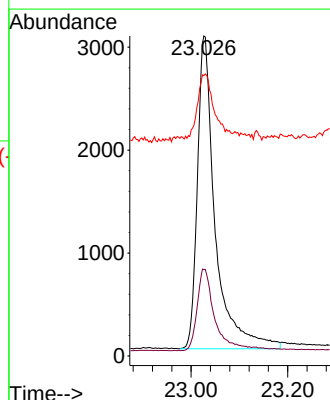
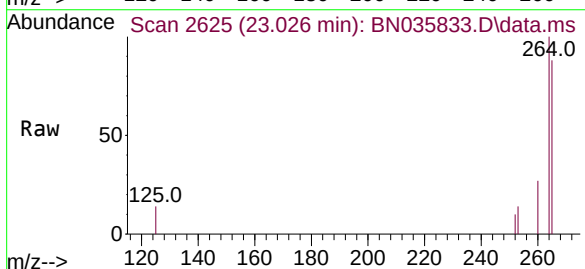
Tgt Ion:264 Resp: 7784

Ion Ratio Lower Upper

264 100

260 27.0 21.4 32.2

265 87.6 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035834.D
 Acq On : 24 Dec 2024 23:53
 Operator : RC/JU
 Sample : P5376-17
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01I-20241219

Quant Time: Dec 25 02:35:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

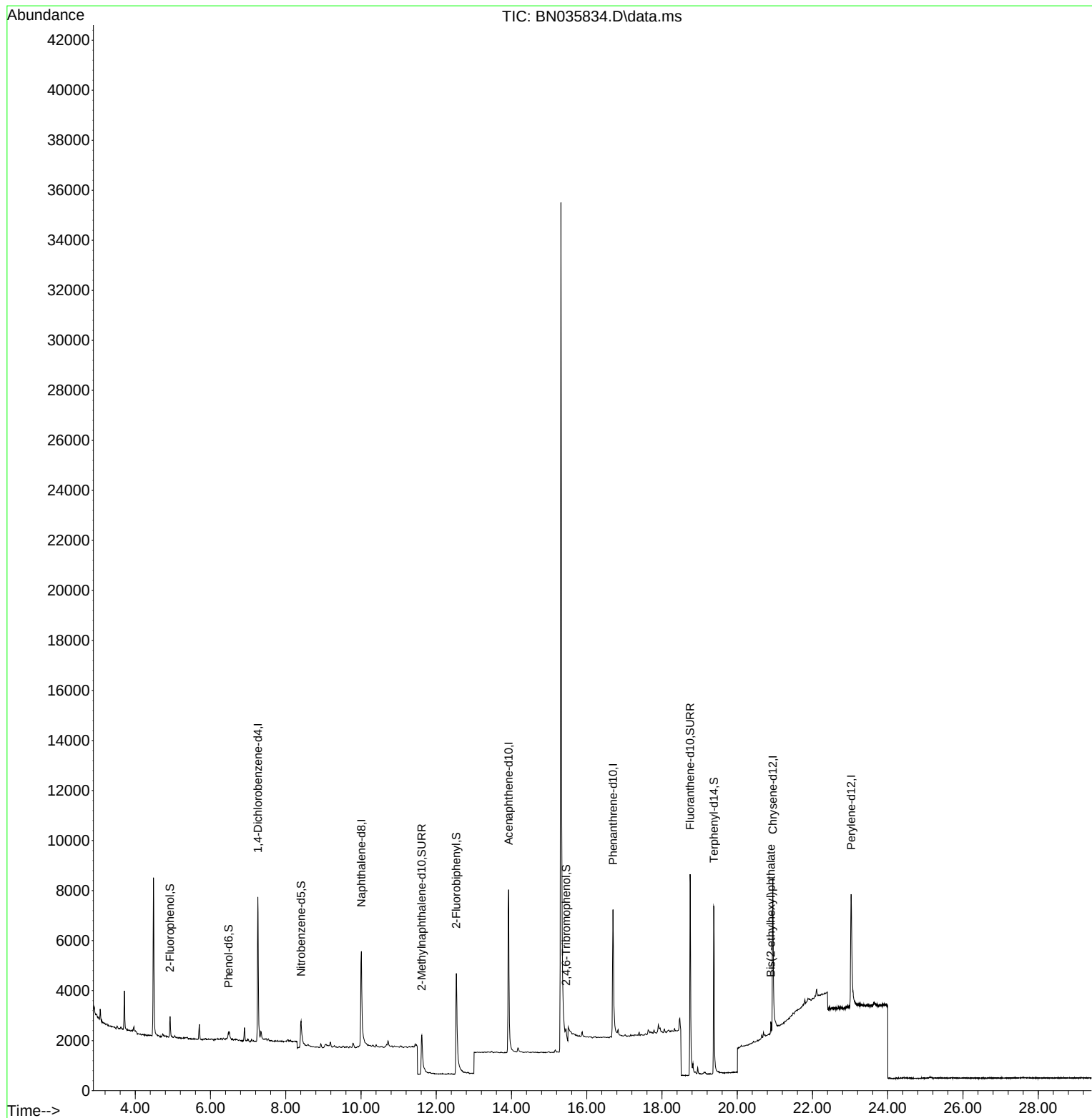
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3211	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7680	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4788	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10028	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8231	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7812	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	770	0.096	ng	-0.01
5) Phenol-d6	6.477	99	388	0.040	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2039	0.435	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4135	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	529	0.156	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	6614	0.365	ng	-0.01
27) Fluoranthene-d10	18.747	212	11419	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	8341	0.514	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	20.893	149	474	0.042	ng	# 96

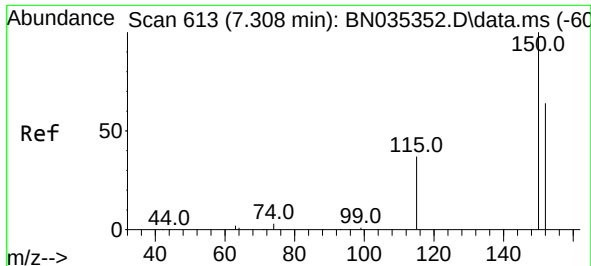
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

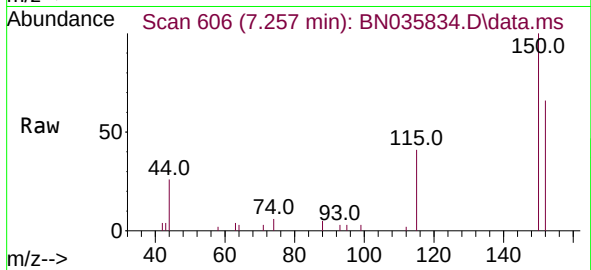
Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



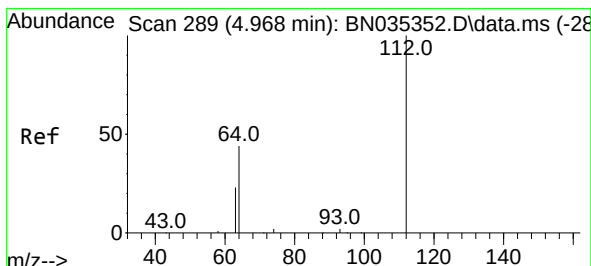
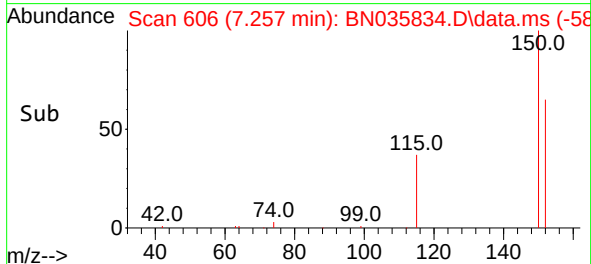
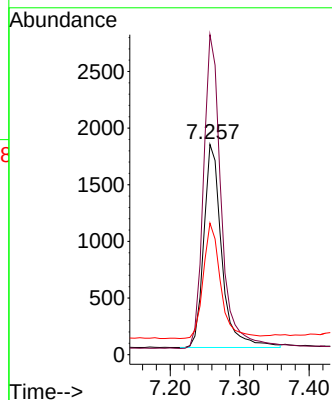


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 613
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

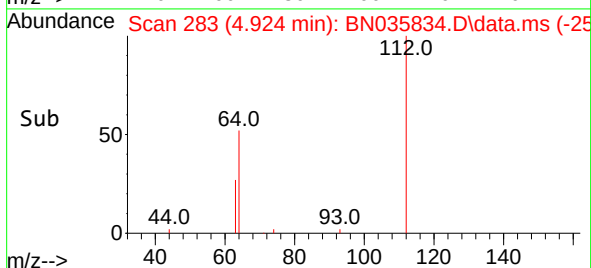
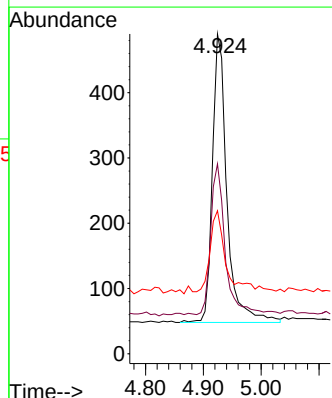
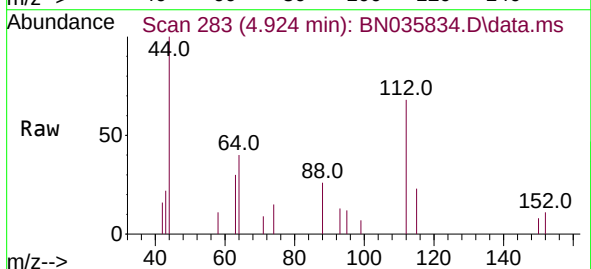


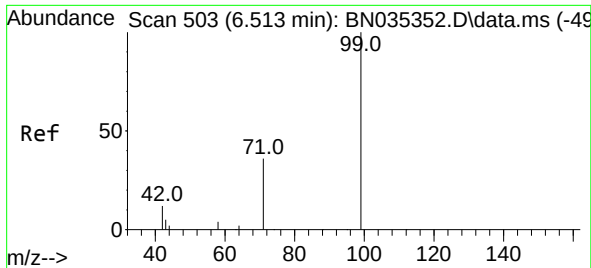
Tgt Ion:152 Resp: 3211
Ion Ratio Lower Upper
152 100
150 152.2 124.0 186.0
115 62.6 49.6 74.4



#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:112 Resp: 770
Ion Ratio Lower Upper
112 100
64 53.1 39.8 59.8
63 31.9 21.0 31.6#

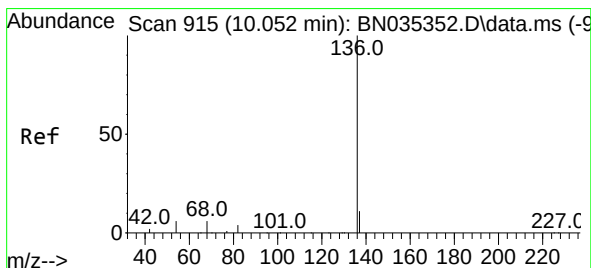
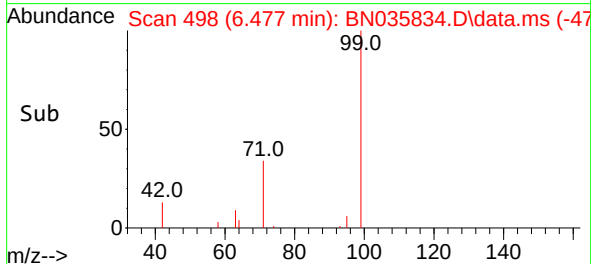
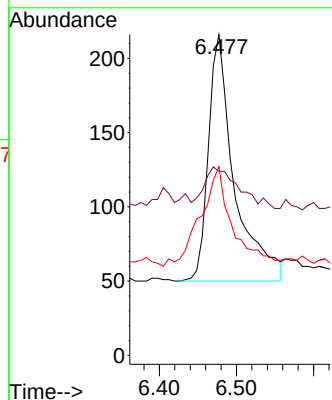
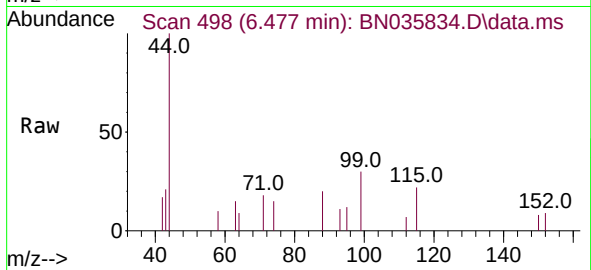




#5
Phenol-d6
Concen: 0.040 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

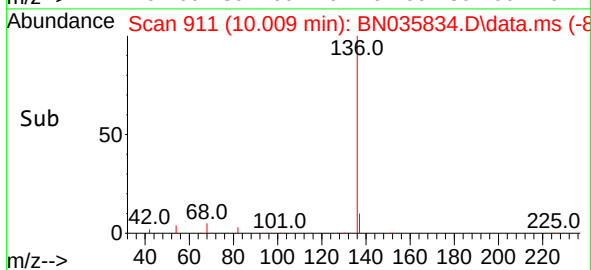
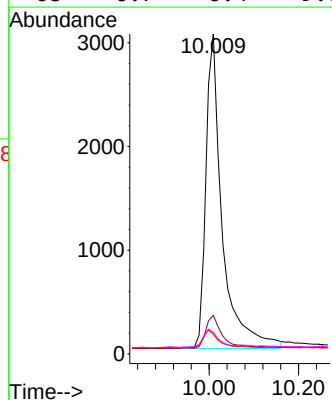
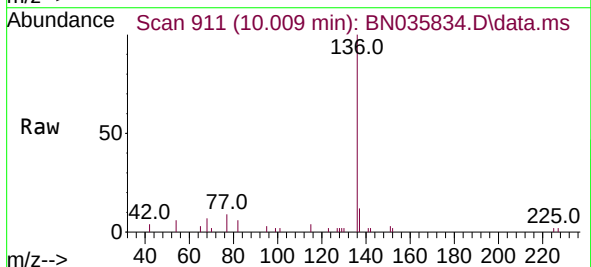
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

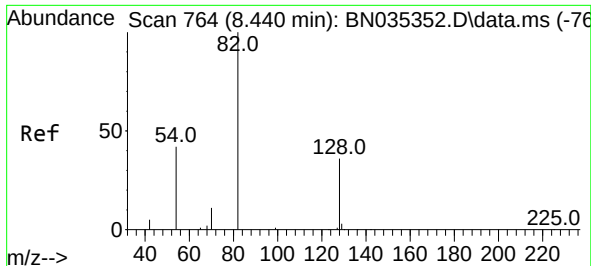
Tgt Ion: 99 Resp: 388
Ion Ratio Lower Upper
99 100
42 25.5 11.4 17.2#
71 49.7 29.3 43.9#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion: 136 Resp: 7680
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 6.2 6.1 9.1
68 6.7 6.4 9.6

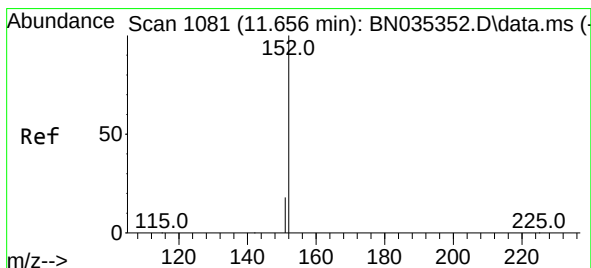
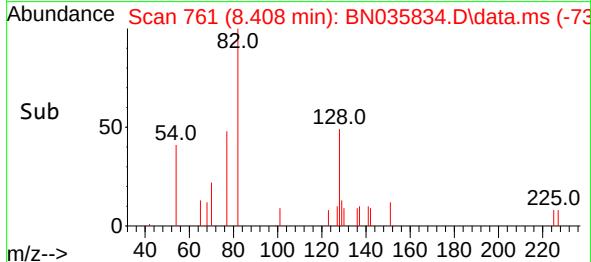
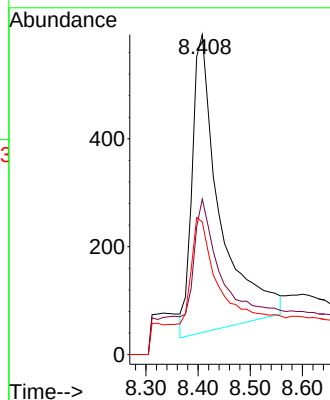
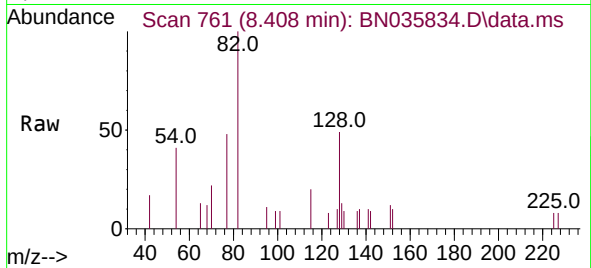




#8
Nitrobenzene-d5
Concen: 0.435 ng
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

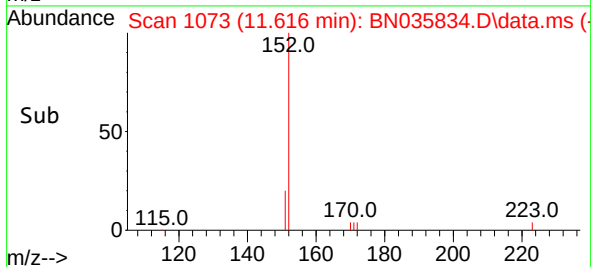
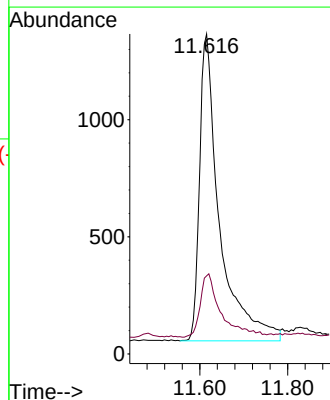
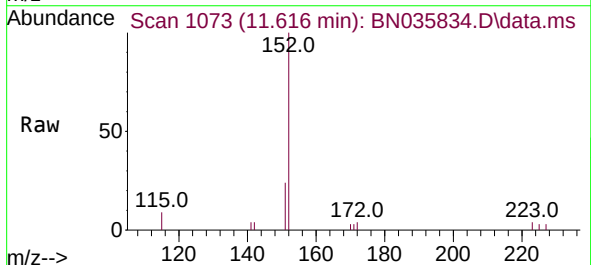
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

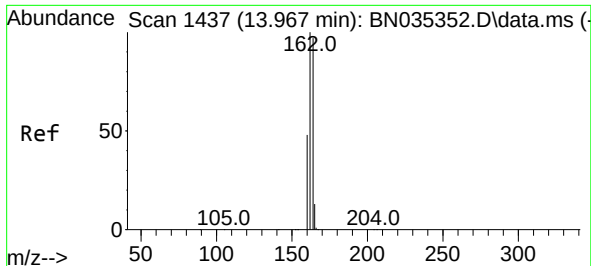
Tgt Ion: 82 Resp: 2039
Ion Ratio Lower Upper
82 100
128 48.6 33.4 50.0
54 41.5 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 4135
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0

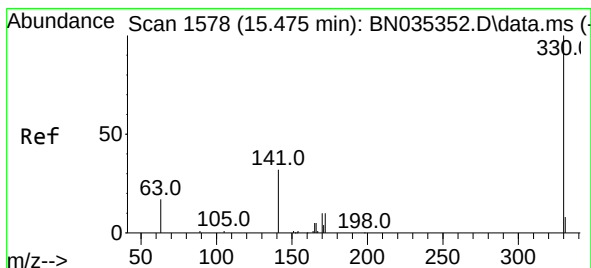
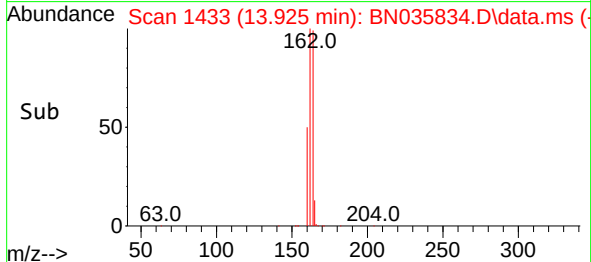
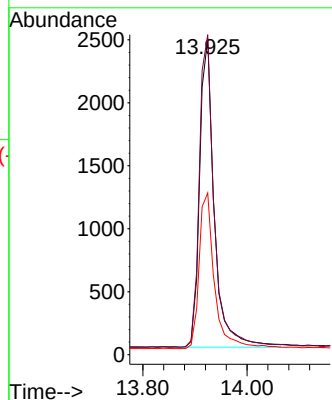
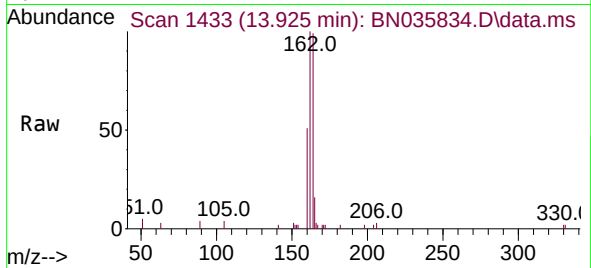




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

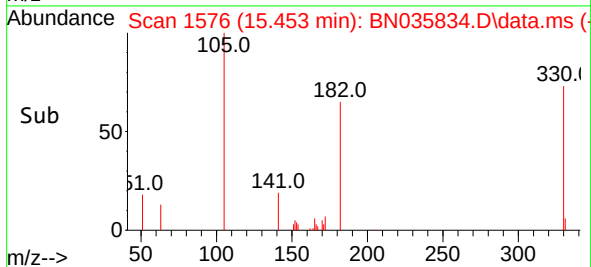
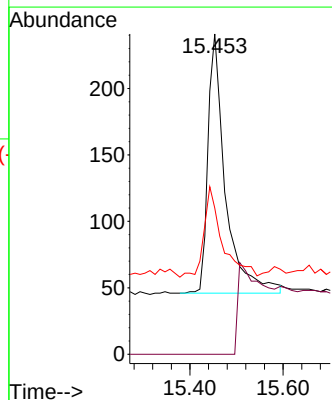
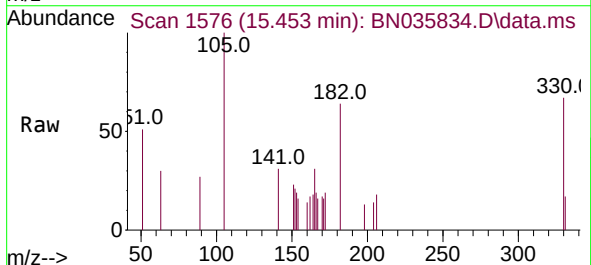
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

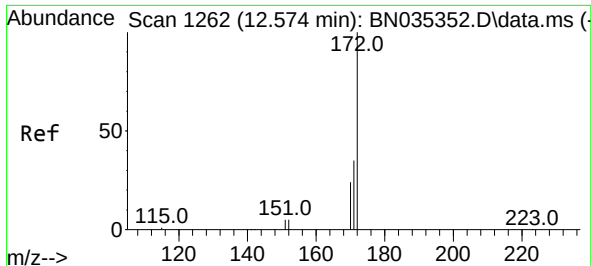
Tgt Ion:164 Resp: 4788
Ion Ratio Lower Upper
164 100
162 101.2 82.2 123.2
160 51.2 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:330 Resp: 529
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.3 26.6 40.0

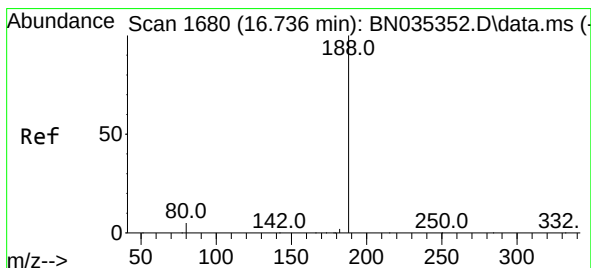
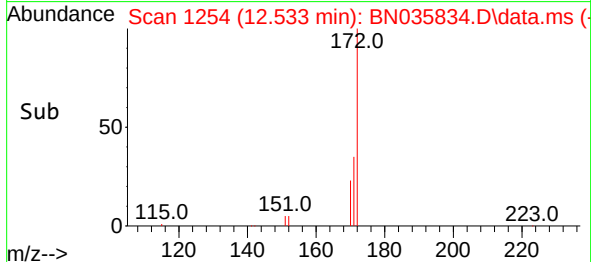
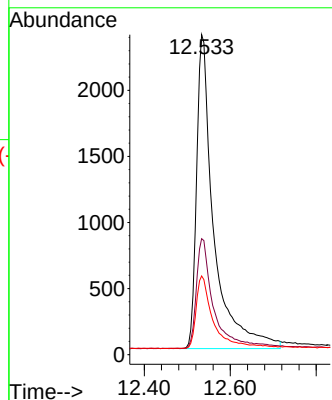
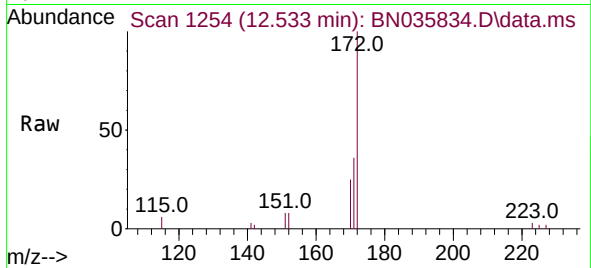




#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

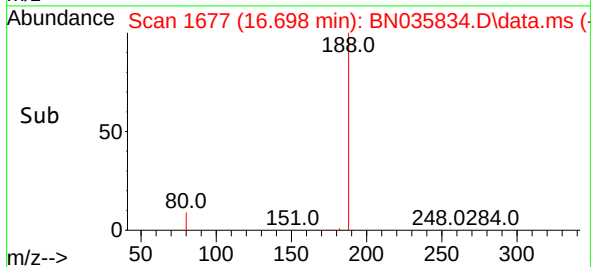
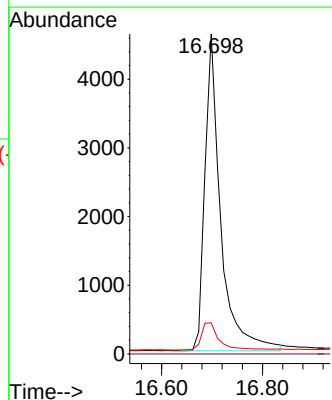
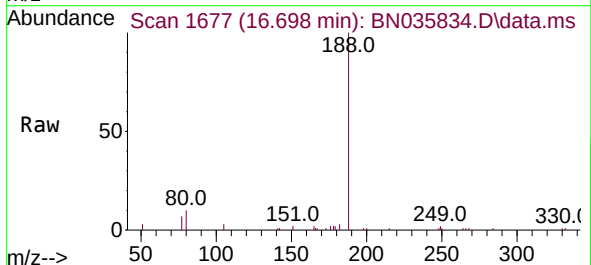
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

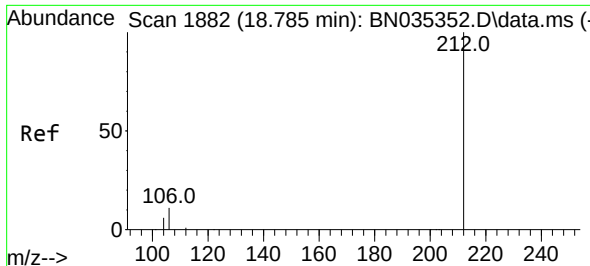
Tgt Ion:	172	Resp:	6614
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.0	43.4
170	24.6	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:	188	Resp:	10028
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.7	4.6	6.8

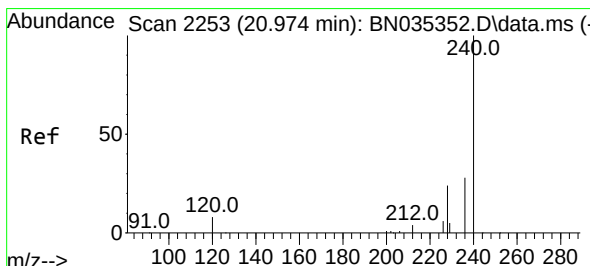
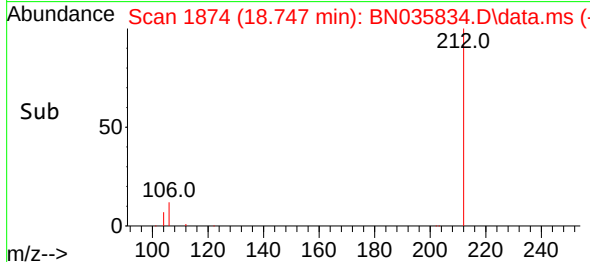
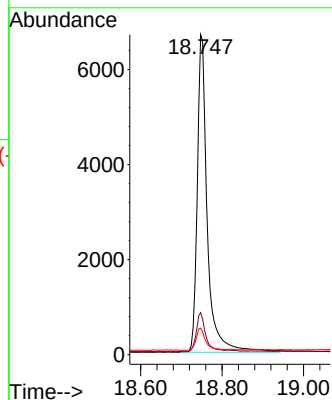
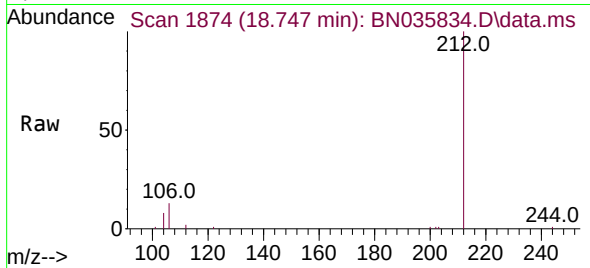




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 11
Delta R.T. -0.014 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

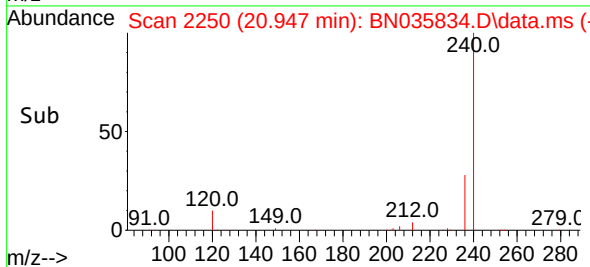
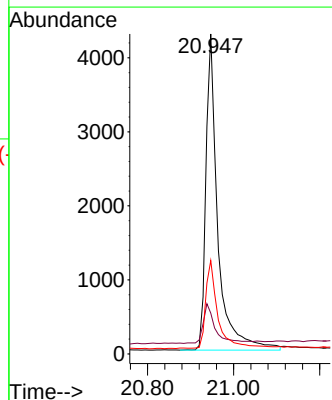
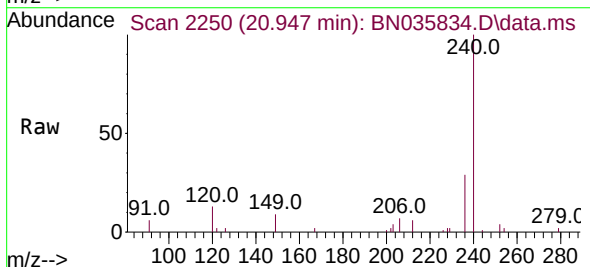
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

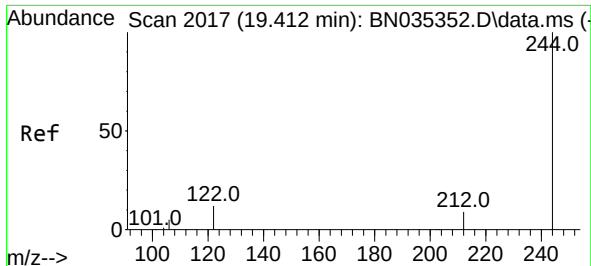
Tgt Ion:212 Resp: 11419
Ion Ratio Lower Upper
212 100
106 11.2 9.2 13.8
104 6.7 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:240 Resp: 8231
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9#
236 29.2 22.9 34.3

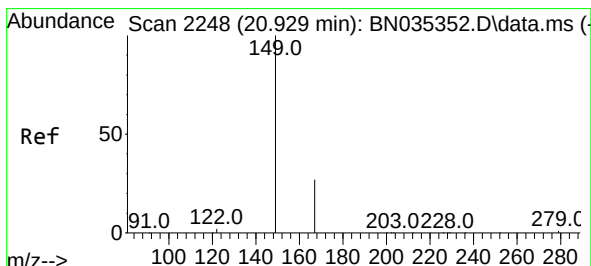
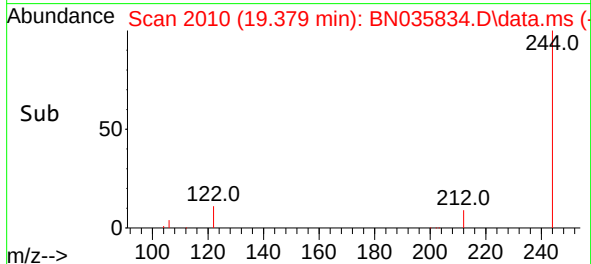
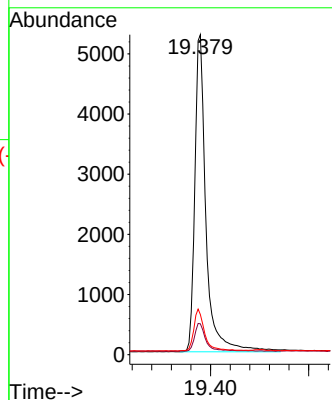
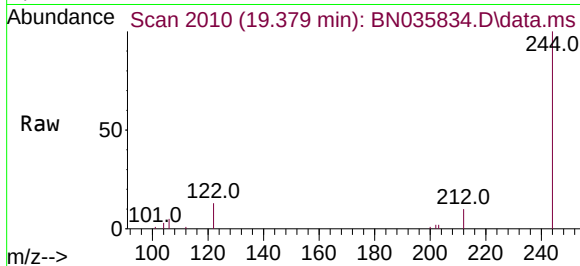




#31
 Terphenyl-d14
 Concen: 0.514 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035834.D
 Acq: 24 Dec 2024 23:53

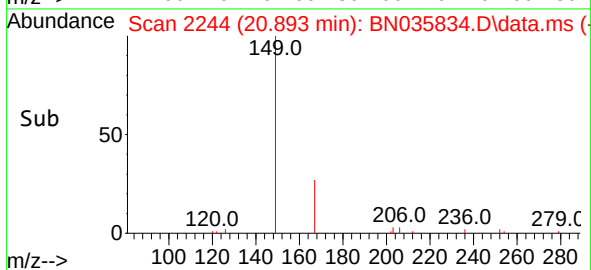
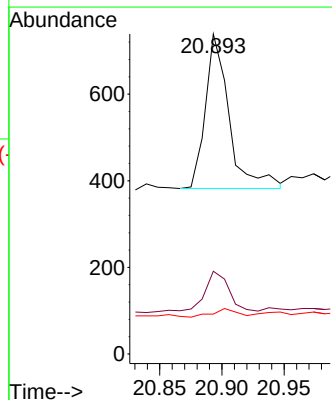
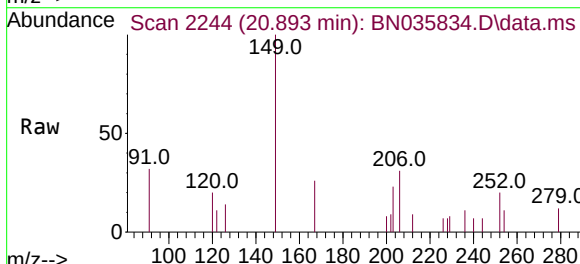
Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01I-20241219

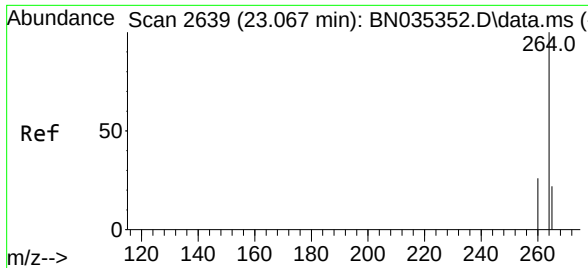
Tgt Ion:244 Resp: 8341
 Ion Ratio Lower Upper
 244 100
 212 9.7 8.1 12.1
 122 12.6 10.3 15.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.042 ng
 RT: 20.893 min Scan# 2244
 Delta R.T. -0.018 min
 Lab File: BN035834.D
 Acq: 24 Dec 2024 23:53

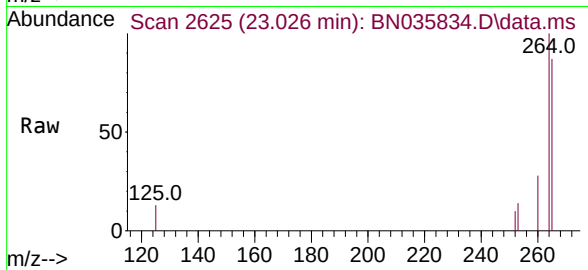
Tgt Ion:149 Resp: 474
 Ion Ratio Lower Upper
 149 100
 167 26.2 22.2 33.4
 279 5.7 2.7 4.1#



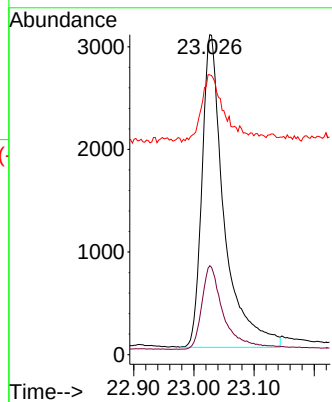
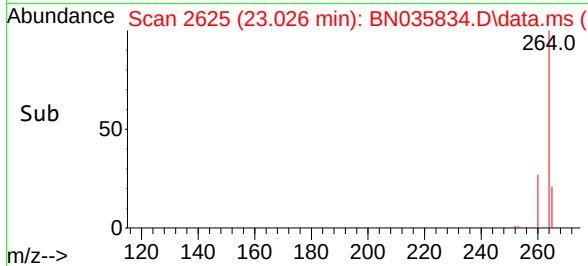


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.026 min Scan# 20
 Delta R.T. -0.015 min
 Lab File: BN035834.D
 Acq: 24 Dec 2024 23:53

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01I-20241219



Tgt Ion:264 Resp: 7812
 Ion Ratio Lower Upper
 264 100
 260 27.8 21.4 32.2
 265 87.5 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035835.D
 Acq On : 25 Dec 2024 00:29
 Operator : RC/JU
 Sample : P5376-18
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20241219

Quant Time: Dec 25 02:35:20 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)

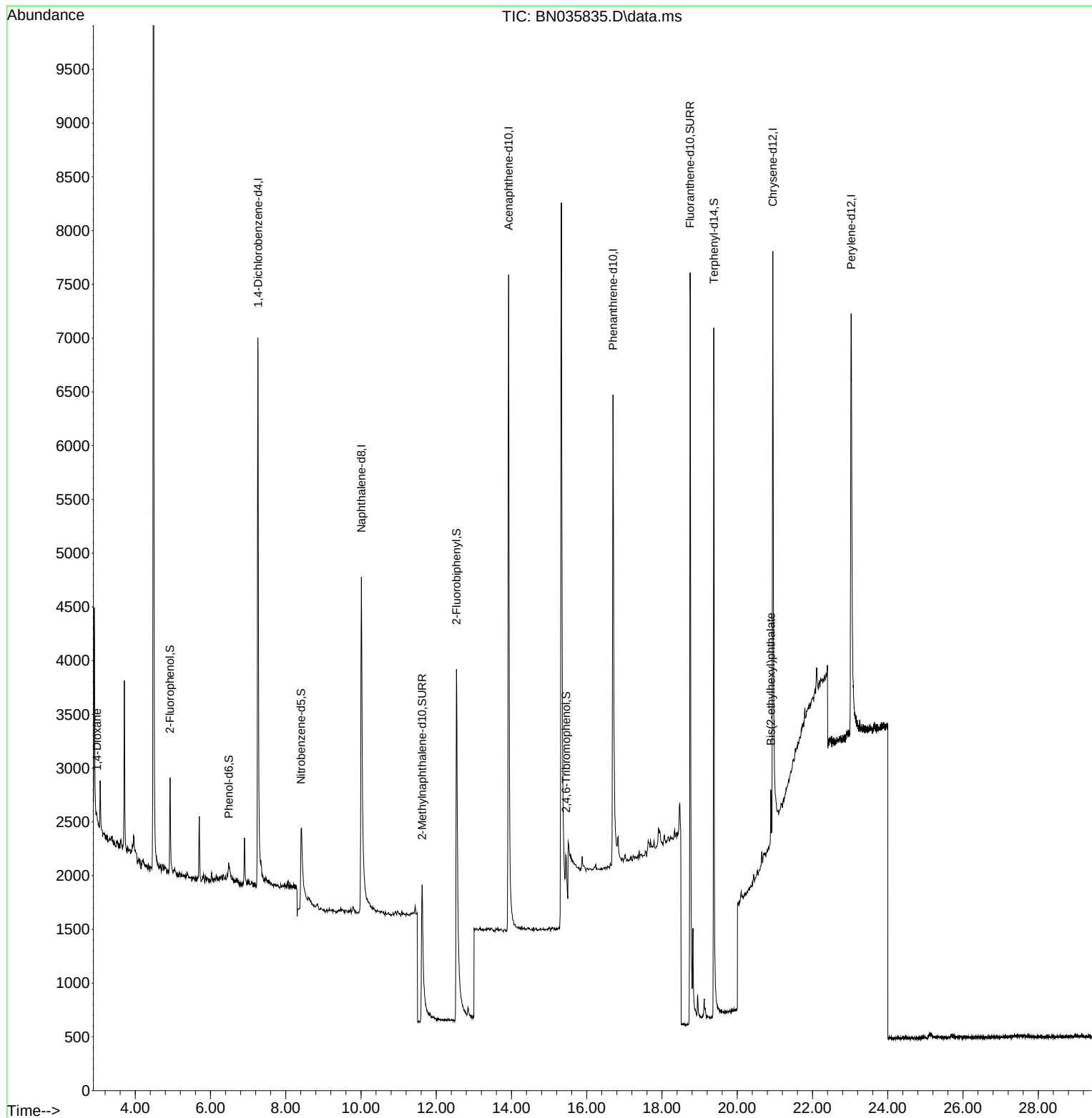
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3270	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7393	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4622	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7437	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7071	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	859	0.105	ng	-0.01
5) Phenol-d6	6.484	99	361	0.037	ng	0.00
8) Nitrobenzene-d5	8.408	82	2688	0.595	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	3916	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	618	0.188	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6261	0.358	ng	0.00
27) Fluoranthene-d10	18.747	212	10636	0.410	ng	-0.01
31) Terphenyl-d14	19.379	244	7814	0.533	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	63	0.020	ng	# 71
34) Bis(2-ethylhexyl)phtha...	20.893	149	496	0.048	ng	99

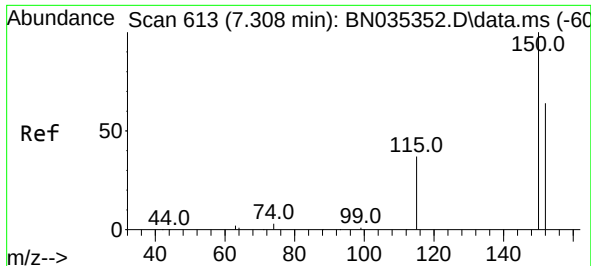
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

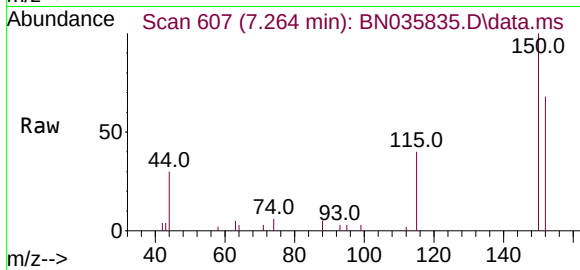
Quant Time: Dec 25 02:35:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



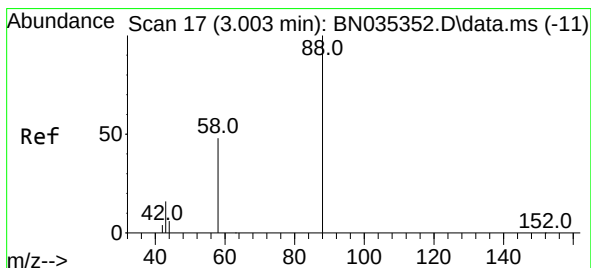
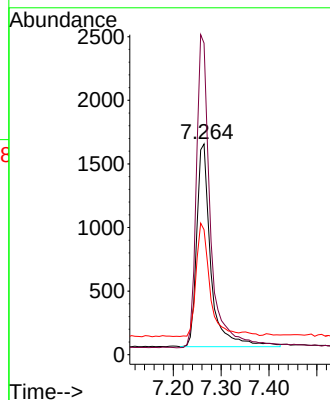
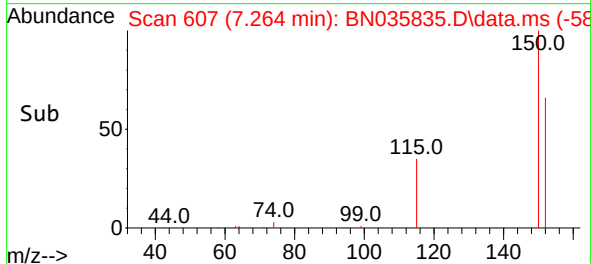


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035835.D
 Acq: 25 Dec 2024 00:29

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20241219

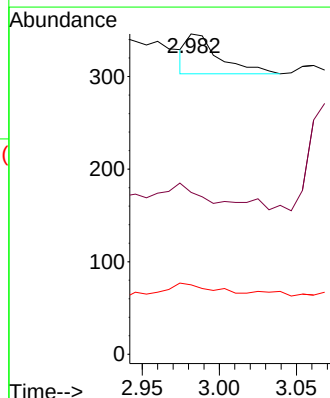
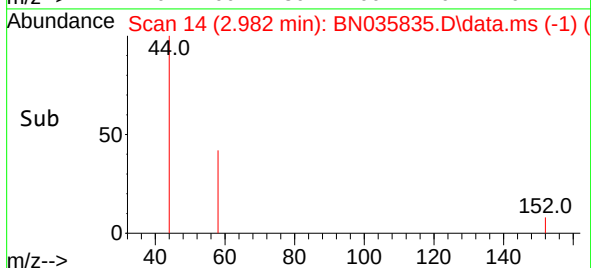
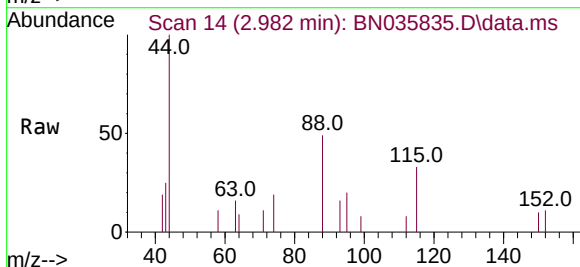


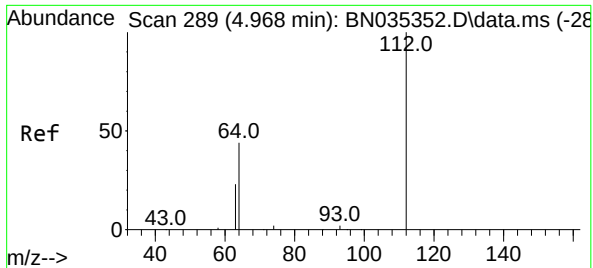
Tgt Ion:152 Resp: 3270
 Ion Ratio Lower Upper
 152 100
 150 147.9 124.0 186.0
 115 59.3 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.020 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035835.D
 Acq: 25 Dec 2024 00:29

Tgt Ion: 88 Resp: 63
 Ion Ratio Lower Upper
 88 100
 43 41.3 17.2 25.8#
 58 38.1 44.5 66.7#

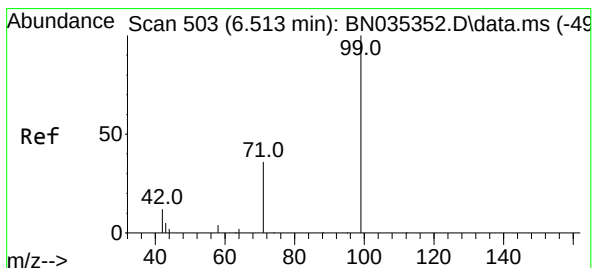
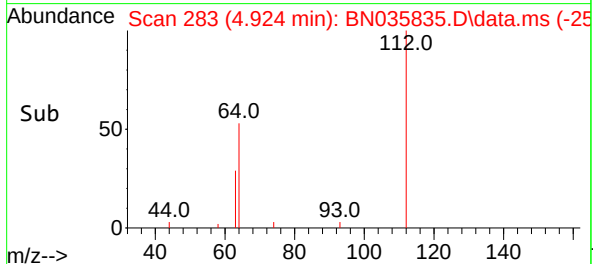
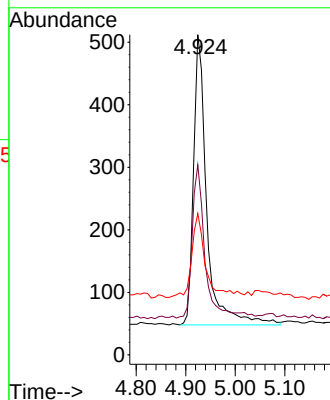
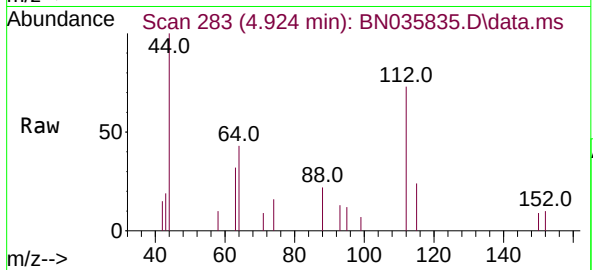




#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

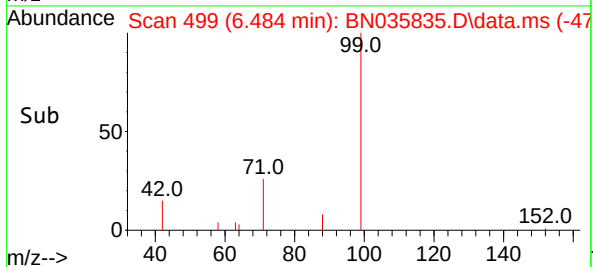
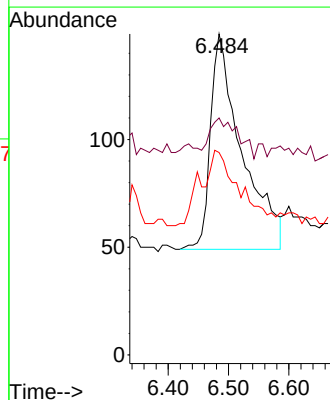
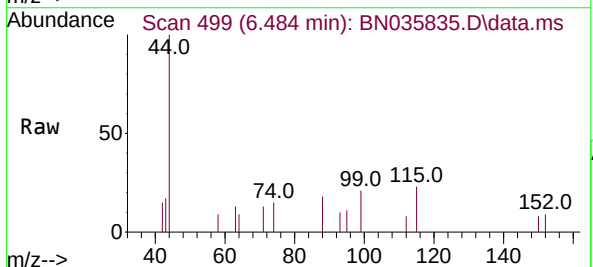
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

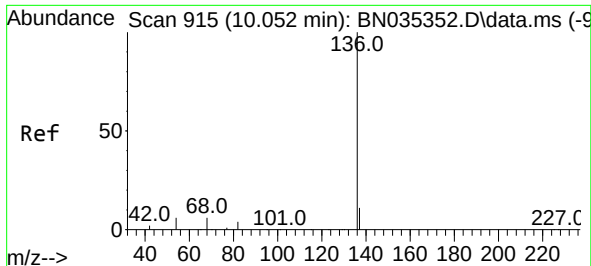
Tgt Ion:	112	Resp:	859
Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	30.2	21.0	31.6



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:	99	Resp:	361
Ion	Ratio	Lower	Upper
99	100		
42	16.9	11.4	17.2
71	25.8	29.3	43.9

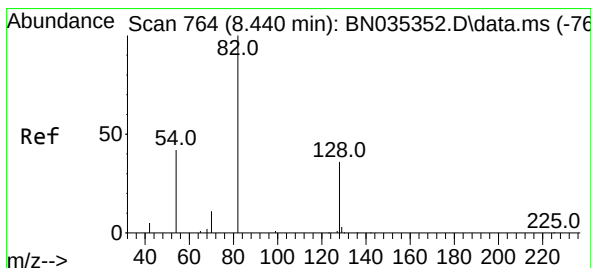
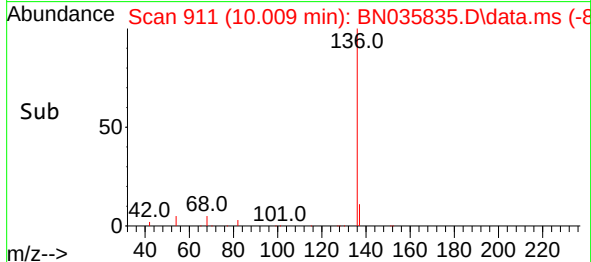
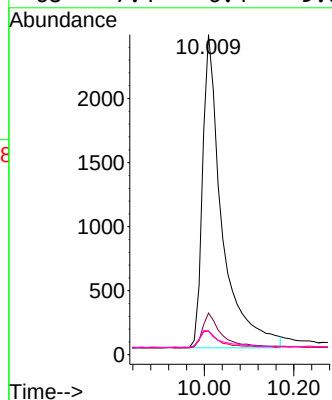
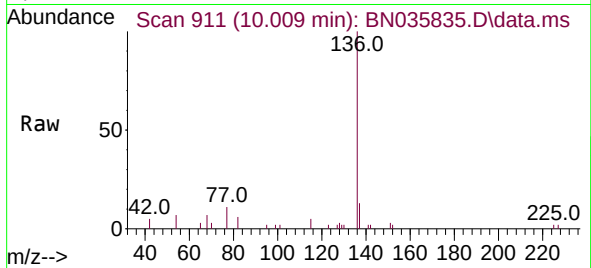




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

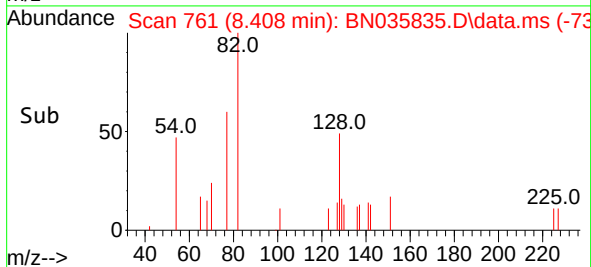
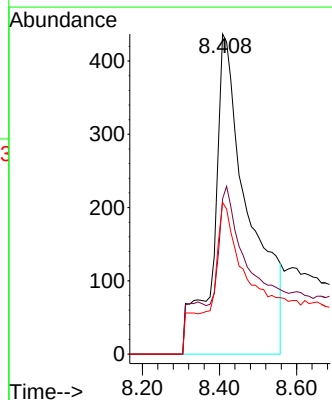
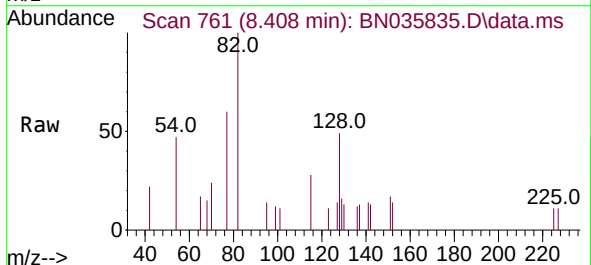
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

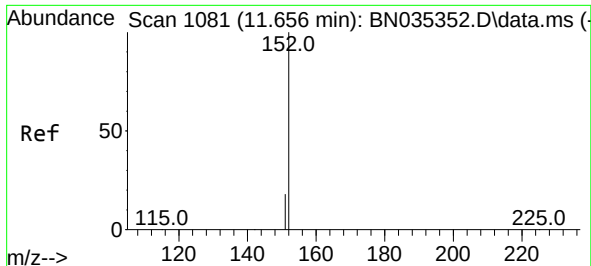
Tgt Ion:	136	Resp:	7393
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.4	6.1	9.1
68	7.4	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.595 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:	82	Resp:	2688
Ion	Ratio	Lower	Upper
82	100		
128	48.5	33.4	50.0
54	47.4	36.7	55.1

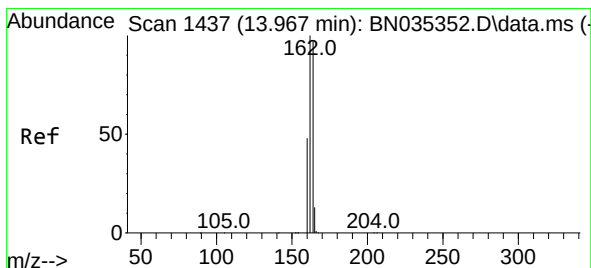
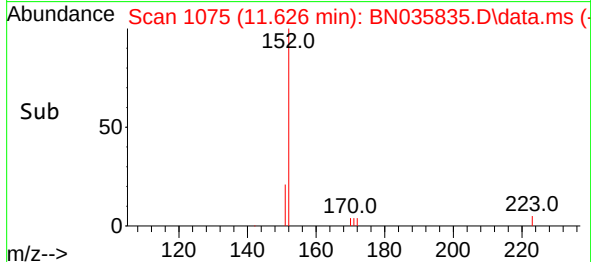
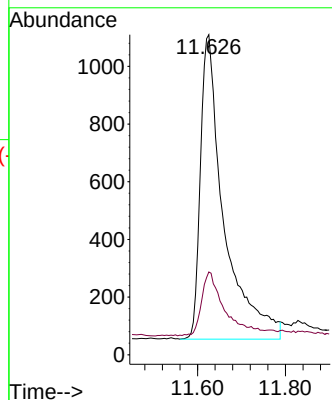
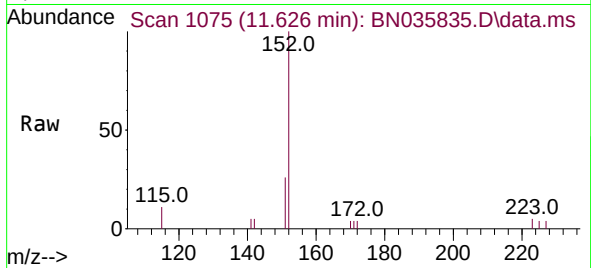




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.626 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

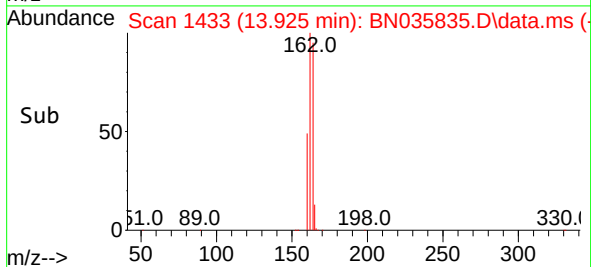
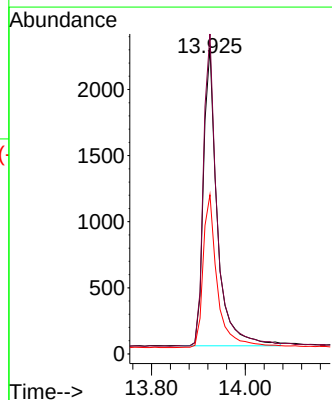
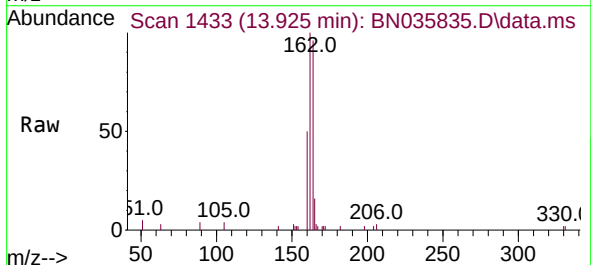
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

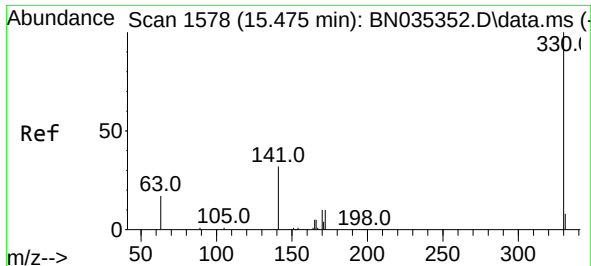
Tgt Ion:152 Resp: 3916
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

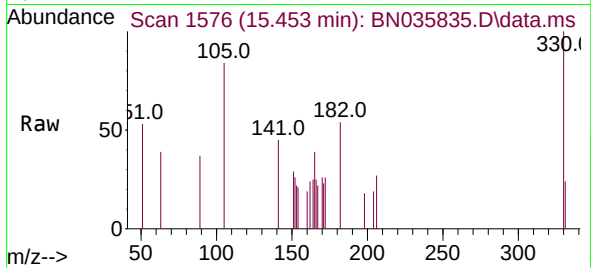
Tgt Ion:164 Resp: 4622
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 52.0 40.1 60.1



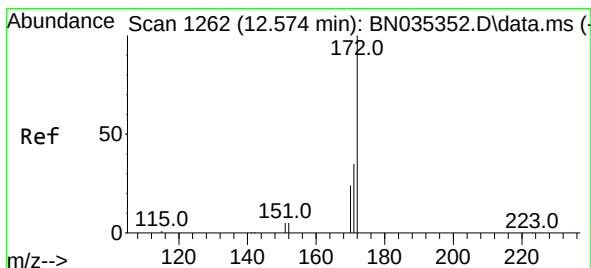
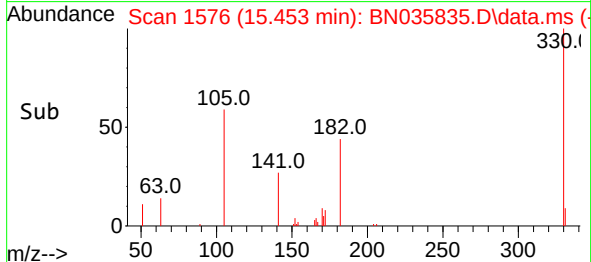
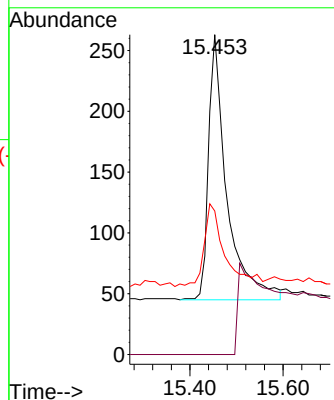


#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

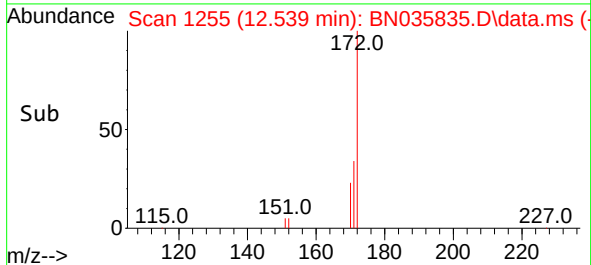
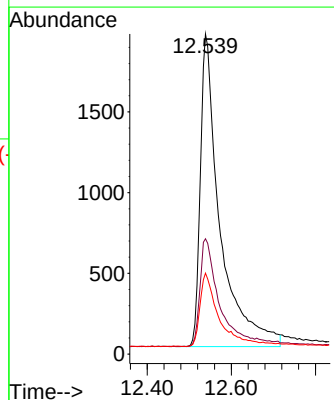
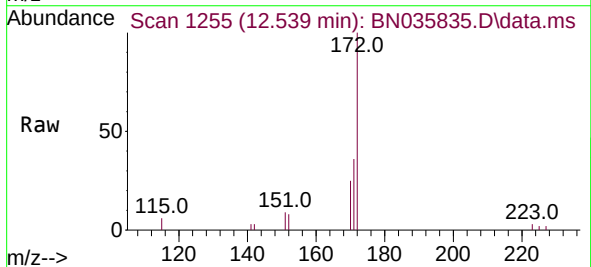


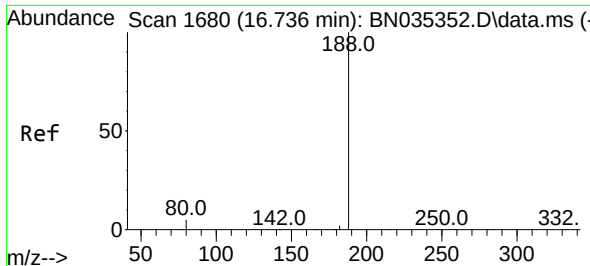
Tgt Ion:330 Resp: 618
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.8 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:172 Resp: 6261
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 25.3 19.8 29.8

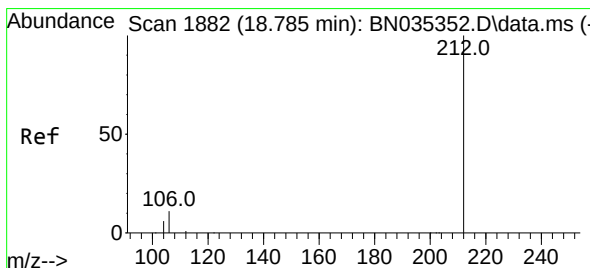
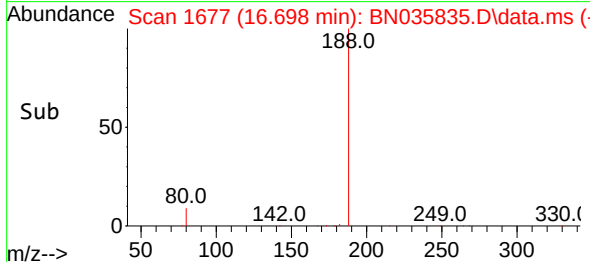
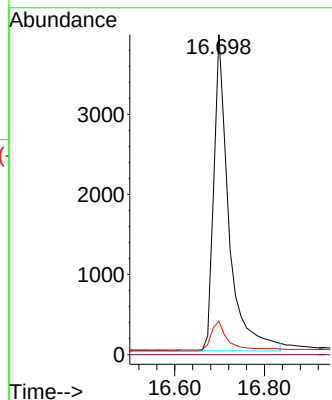
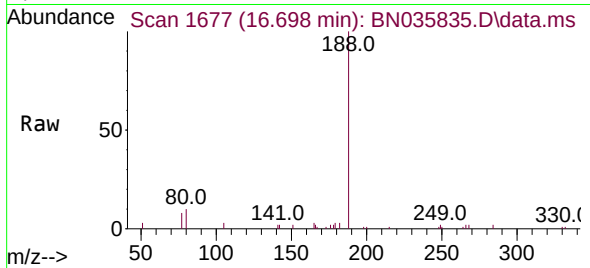




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

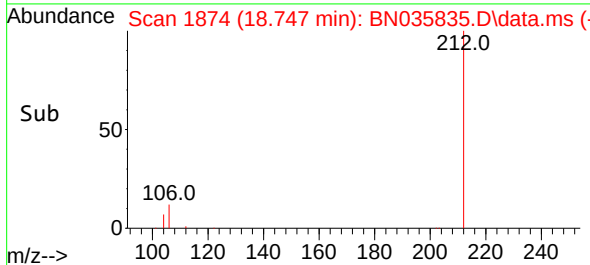
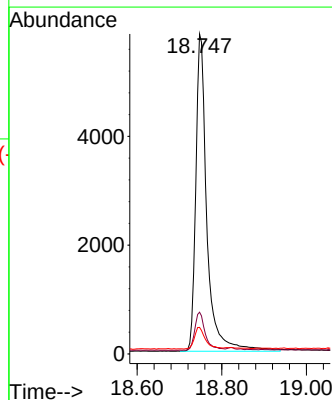
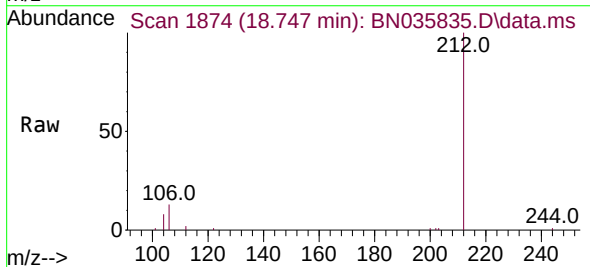
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

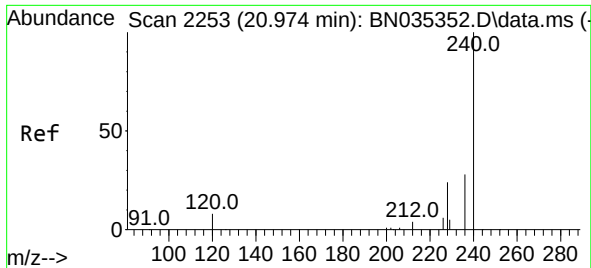
Tgt Ion:188 Resp: 9153
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:212 Resp: 10636
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.7 5.3 7.9

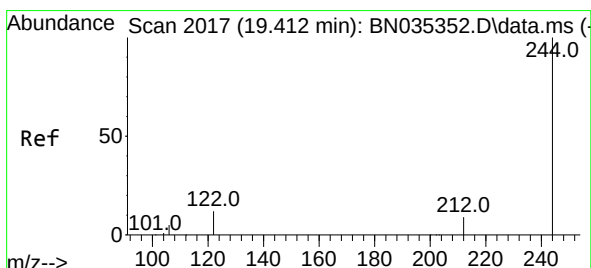
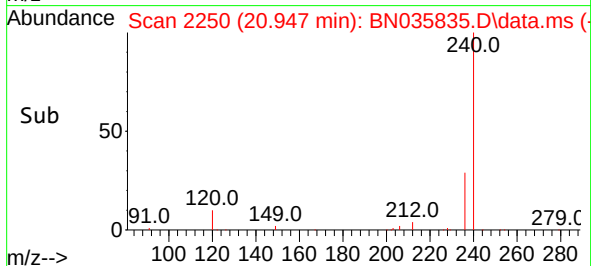
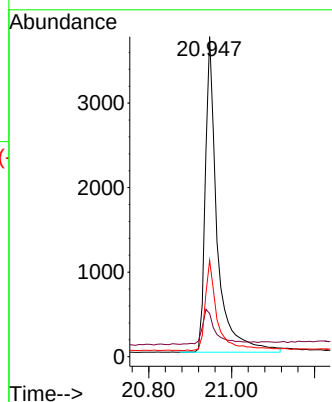
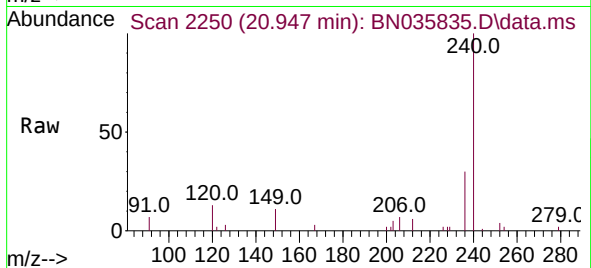




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

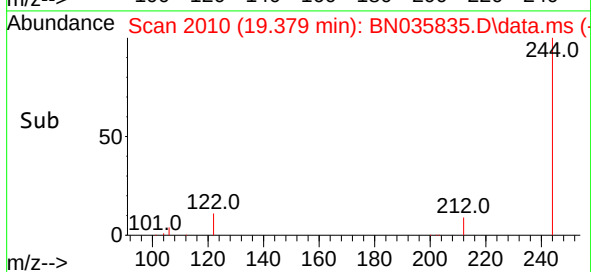
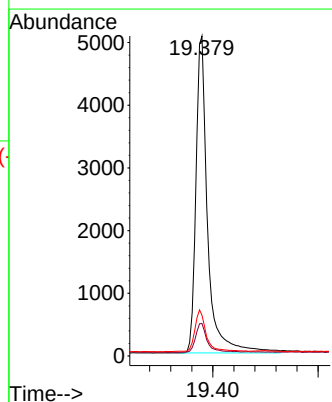
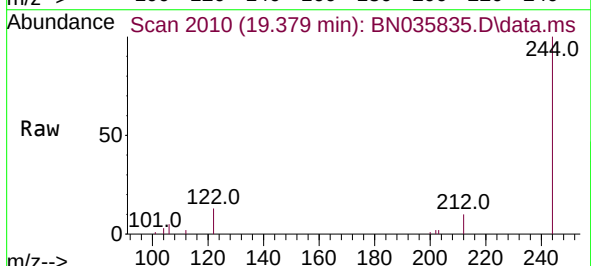
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

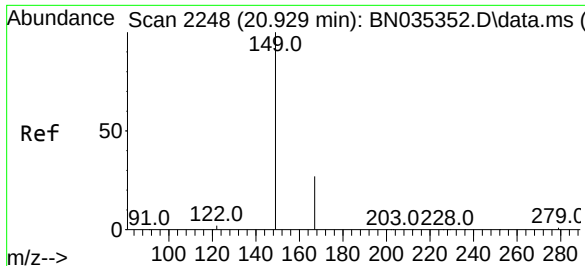
Tgt Ion:240 Resp: 7437
Ion Ratio Lower Upper
240 100
120 13.5 7.9 11.9#
236 30.1 22.9 34.3



#31
Terphenyl-d14
Concen: 0.533 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:244 Resp: 7814
Ion Ratio Lower Upper
244 100
212 10.1 8.1 12.1
122 12.7 10.3 15.5

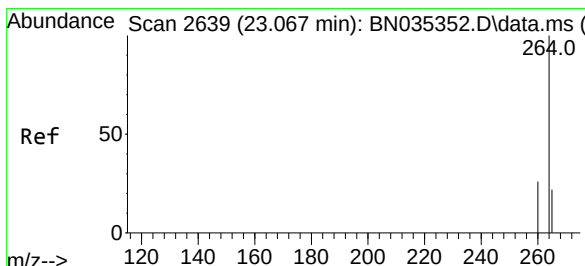
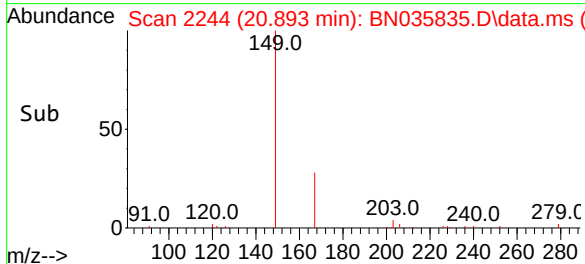
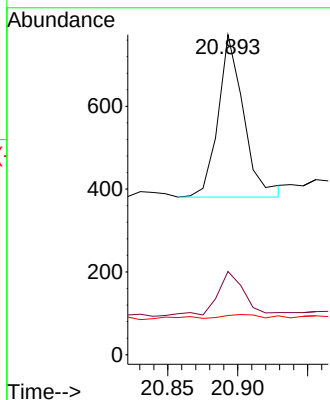
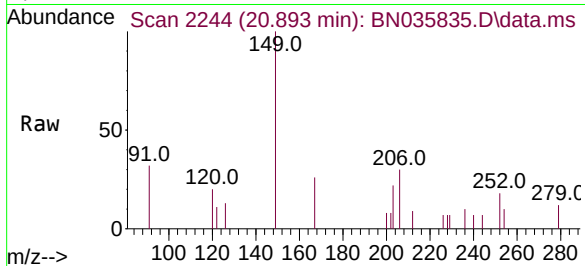




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

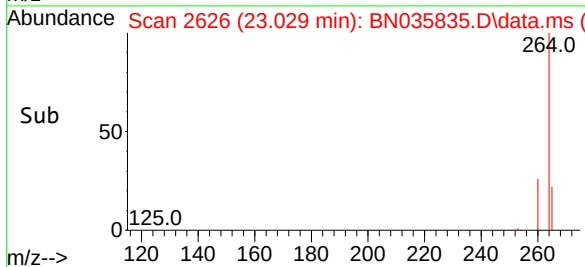
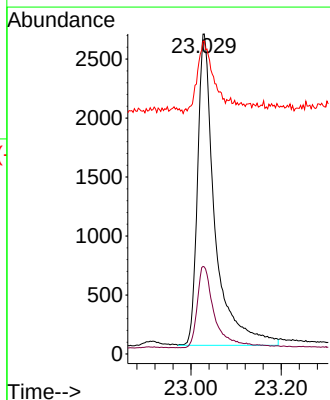
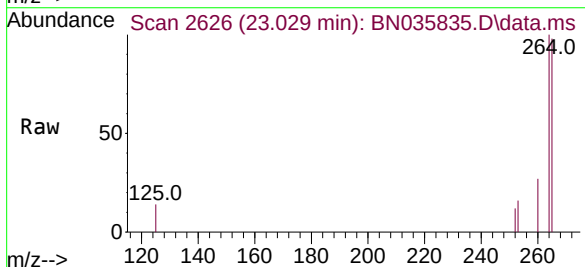
Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:149 Resp: 496
Ion Ratio Lower Upper
149 100
167 28.4 22.2 33.4
279 3.6 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: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:264 Resp: 7071
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 97.8 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035837.D
 Acq On : 25 Dec 2024 01:40
 Operator : RC/JU
 Sample : P5376-20
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 FB03-20241219

Quant Time: Dec 25 02:35:36 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)

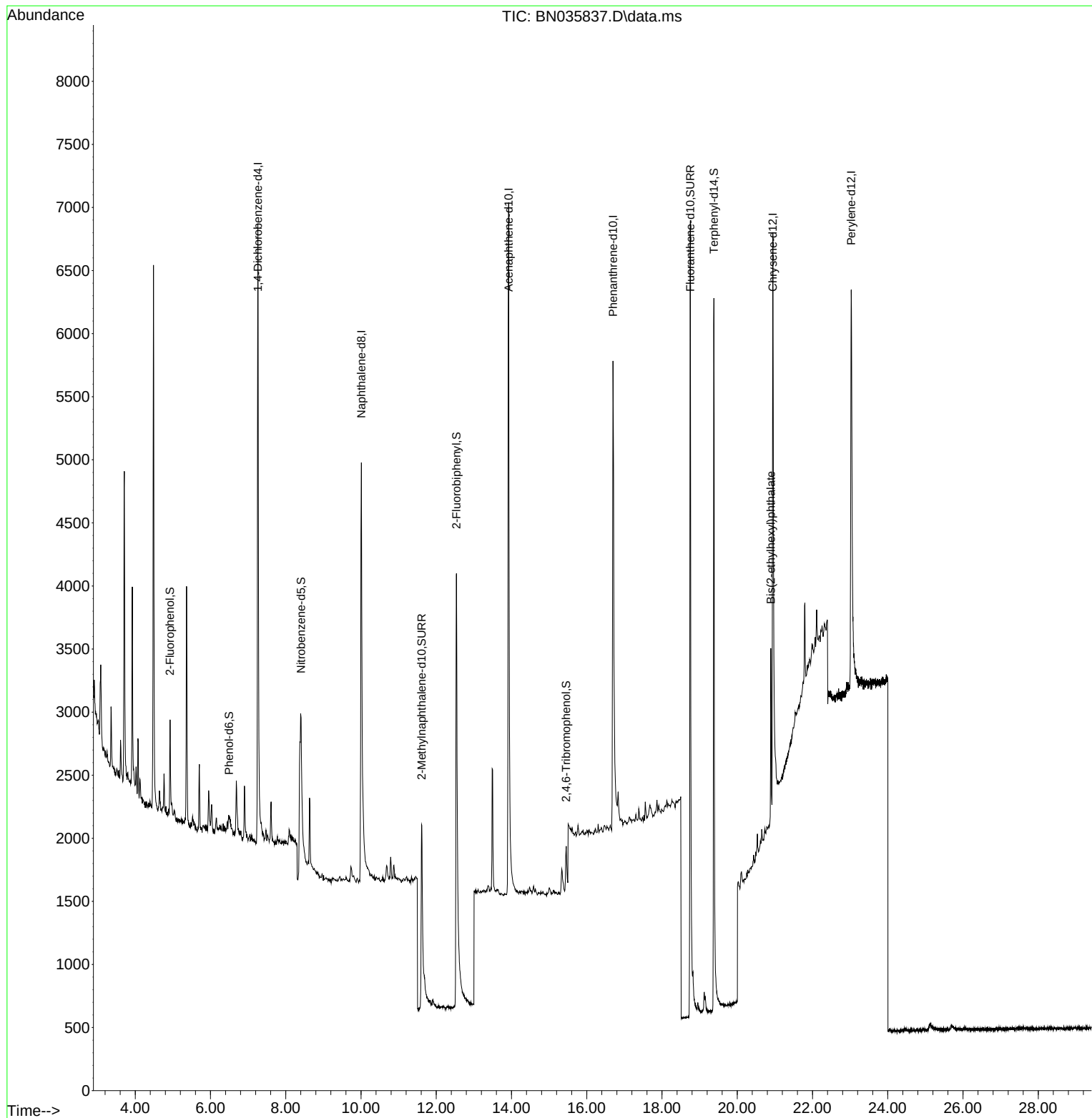
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2951	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6785	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4279	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8231	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6628	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	5858	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	738	0.100	ng	-0.01
5) Phenol-d6	6.492	99	341	0.038	ng	0.00
8) Nitrobenzene-d5	8.408	82	2744	0.662	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	3847	0.362	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	557	0.183	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6166	0.381	ng	0.00
27) Fluoranthene-d10	18.752	212	9755	0.418	ng	0.00
31) Terphenyl-d14	19.379	244	7505	0.574	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	1349	0.147	ng	# 100

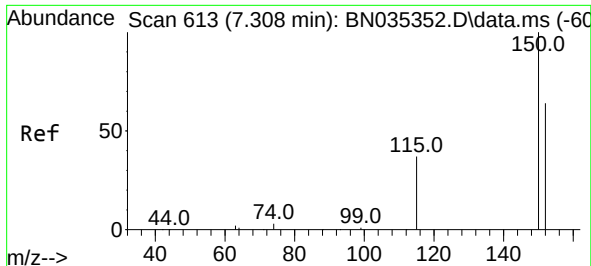
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

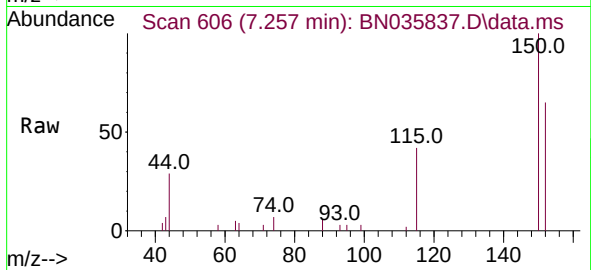
Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



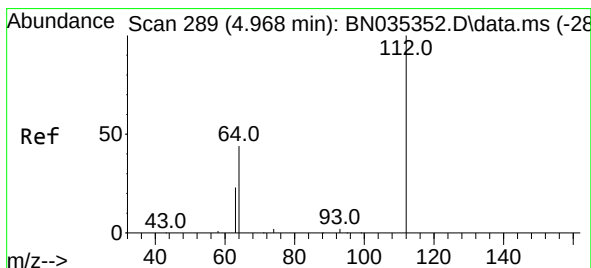
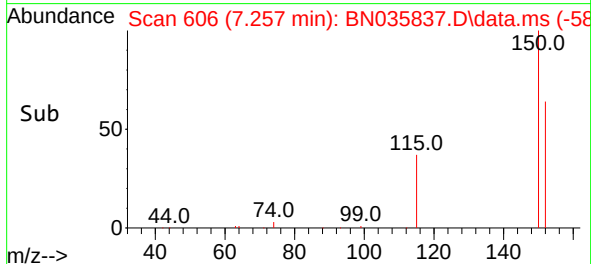
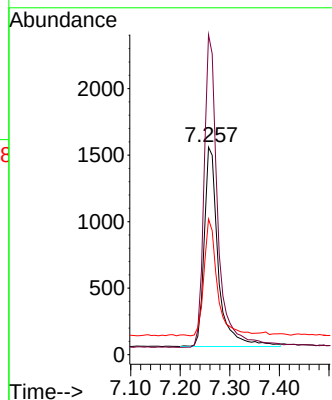


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

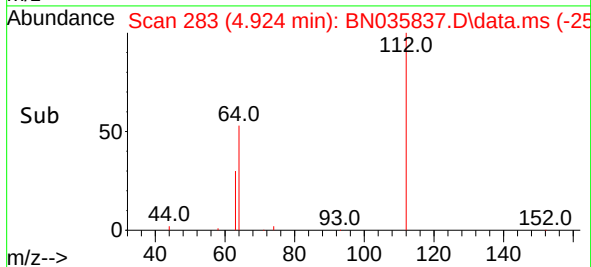
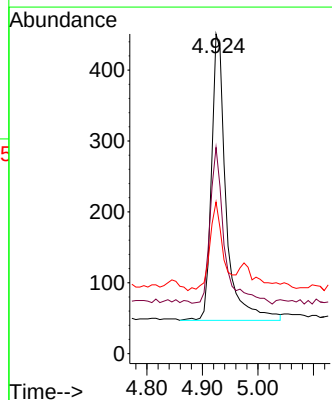
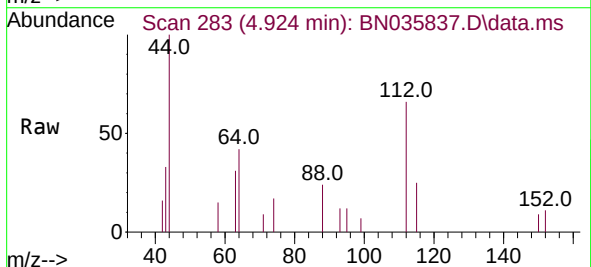


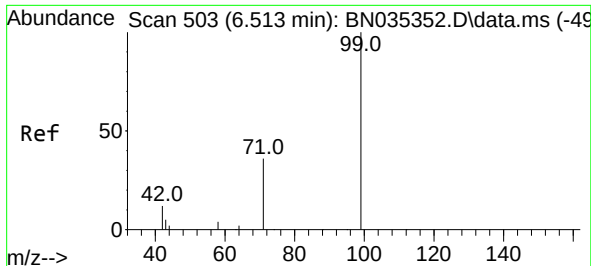
Tgt Ion:152 Resp: 2951
Ion Ratio Lower Upper
152 100
150 154.2 124.0 186.0
115 65.4 49.6 74.4



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:112 Resp: 738
Ion Ratio Lower Upper
112 100
64 53.7 39.8 59.8
63 27.2 21.0 31.6

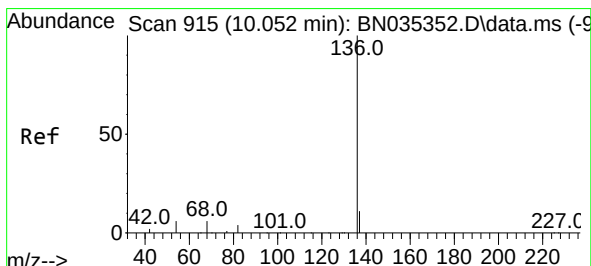
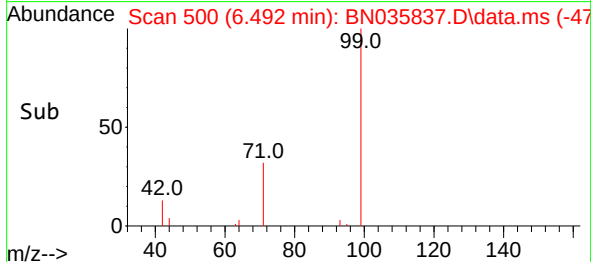
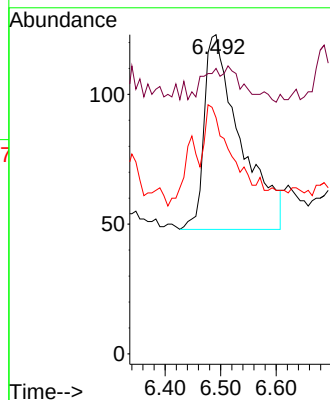
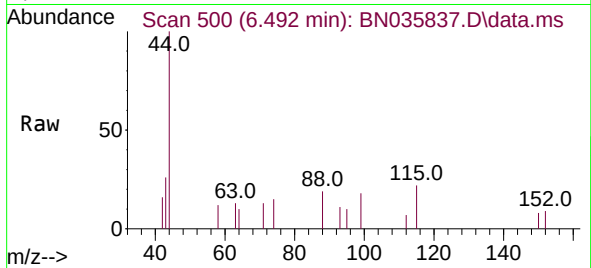




#5
Phenol-d6
Concen: 0.038 ng
RT: 6.492 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

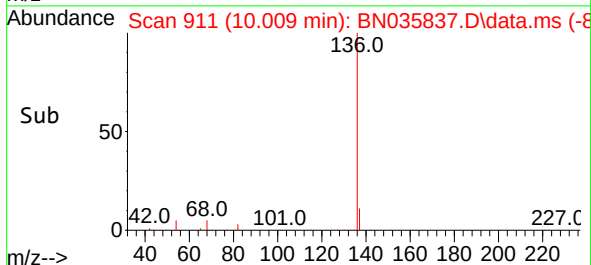
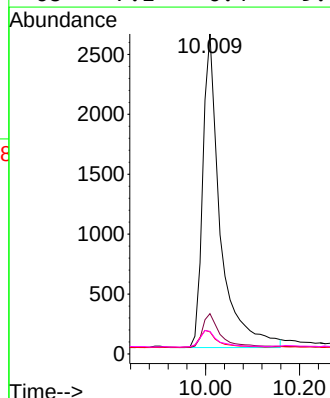
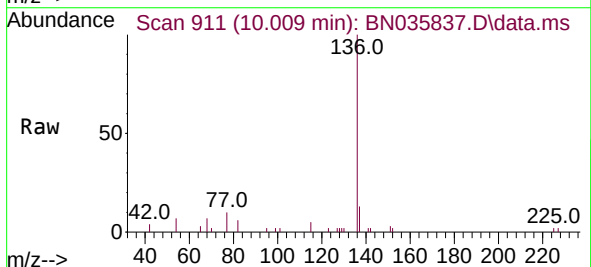
Instrument :
BNA_N
ClientSampleId :
FB03-20241219

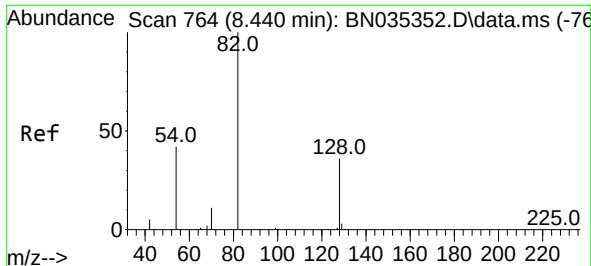
Tgt Ion: 99 Resp: 341
Ion Ratio Lower Upper
99 100
42 6.7 11.4 17.2#
71 30.5 29.3 43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion: 136 Resp: 6785
Ion Ratio Lower Upper
136 100
137 12.6 10.2 15.2
54 6.9 6.1 9.1
68 7.1 6.4 9.6

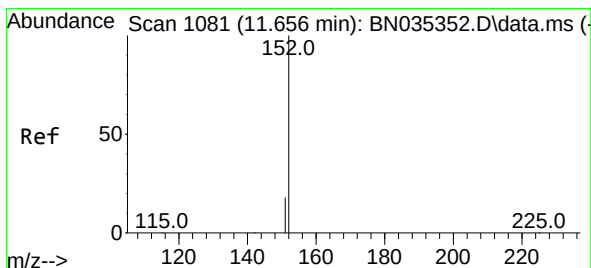
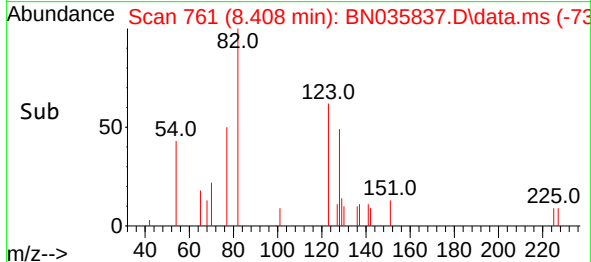
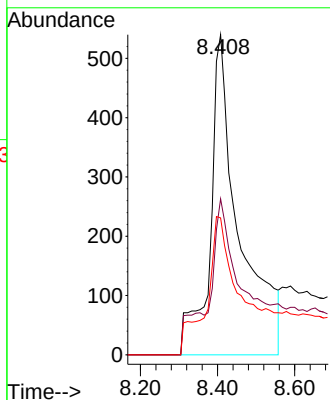
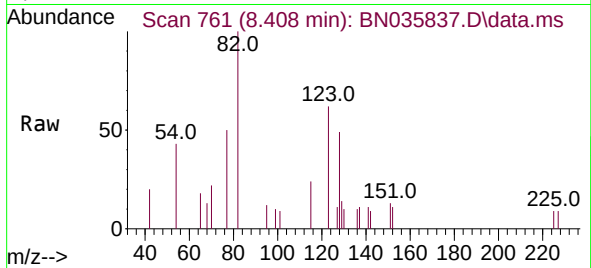




#8
Nitrobenzene-d5
Concen: 0.662 ng
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

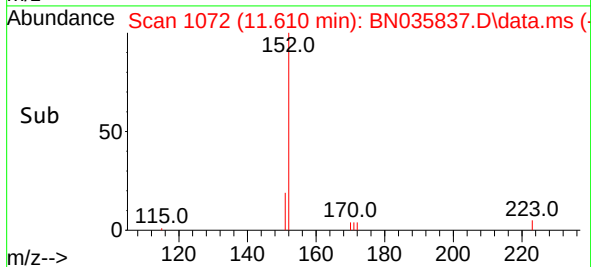
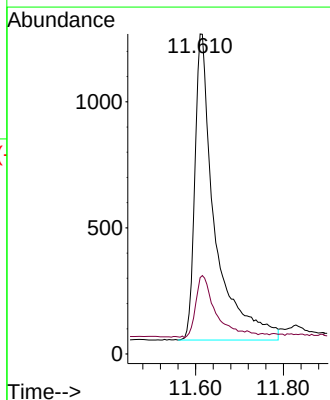
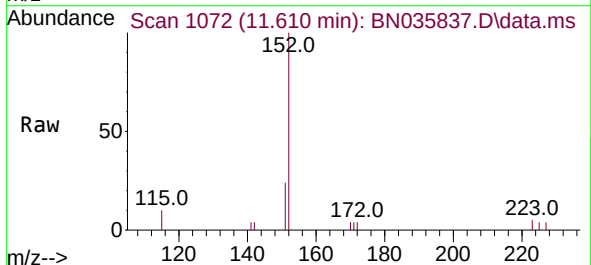
Instrument :
BNA_N
ClientSampleId :
FB03-20241219

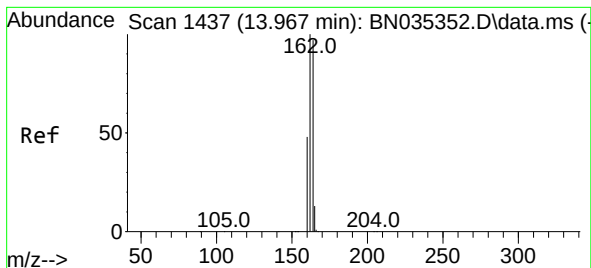
Tgt Ion: 82 Resp: 2744
Ion Ratio Lower Upper
82 100
128 48.7 33.4 50.0
54 42.8 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion: 152 Resp: 3847
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 1437

Delta R.T. -0.011 min

Lab File: BN035837.D

Acq: 25 Dec 2024 01:40

Instrument :

BNA_N

ClientSampleId :

FB03-20241219

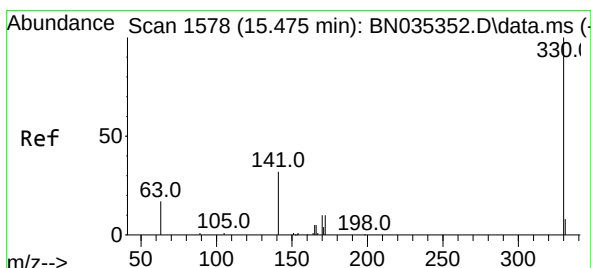
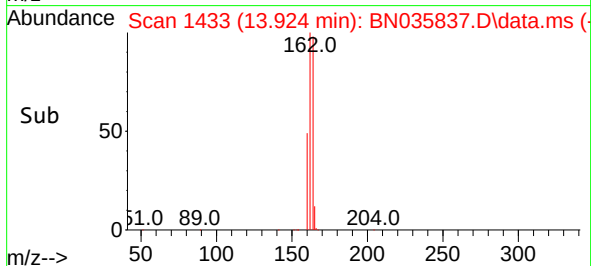
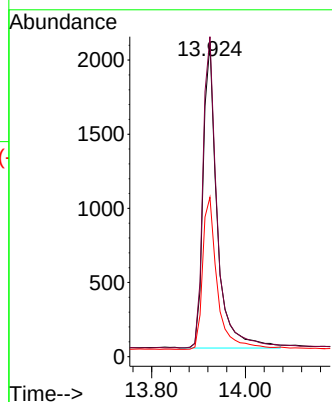
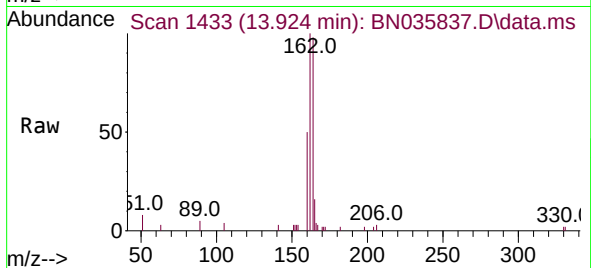
Tgt Ion:164 Resp: 4279

Ion Ratio Lower Upper

164 100

162 102.1 82.2 123.2

160 50.9 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.183 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035837.D

Acq: 25 Dec 2024 01:40

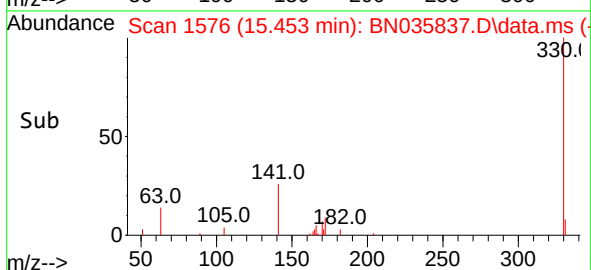
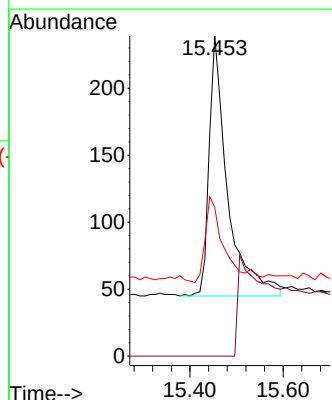
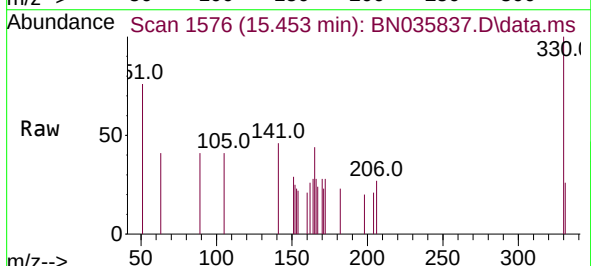
Tgt Ion:330 Resp: 557

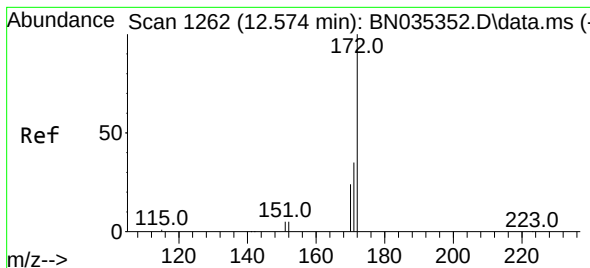
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 33.9 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.381 ng

RT: 12.538 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN035837.D

Acq: 25 Dec 2024 01:40

Instrument :

BNA_N

ClientSampleId :

FB03-20241219

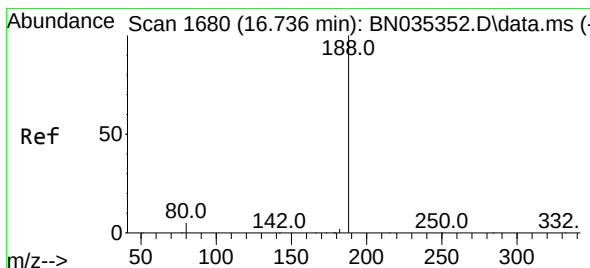
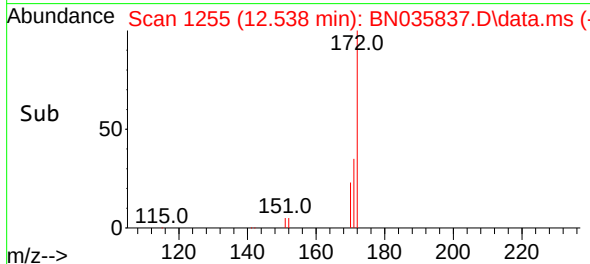
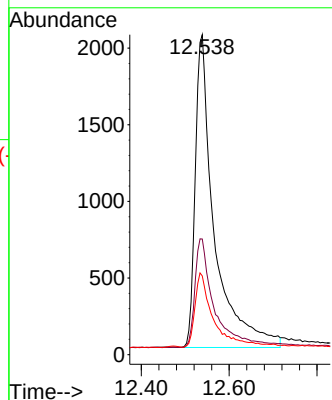
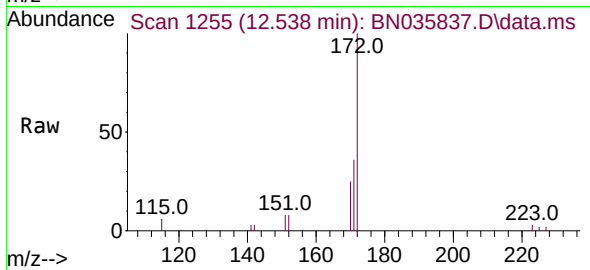
Tgt Ion:172 Resp: 6166

Ion Ratio Lower Upper

172 100

171 36.2 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: BN035837.D

Acq: 25 Dec 2024 01:40

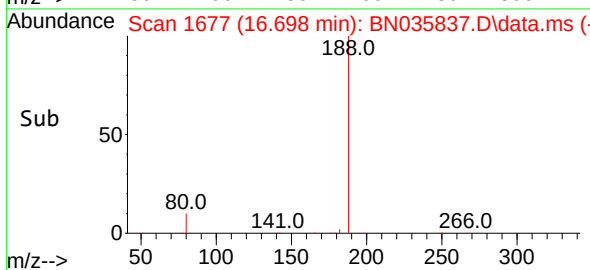
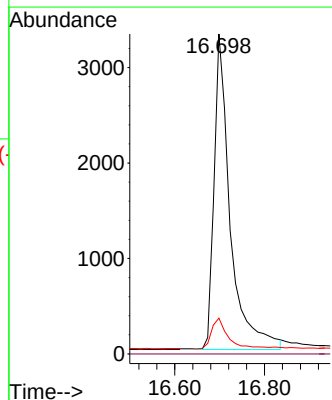
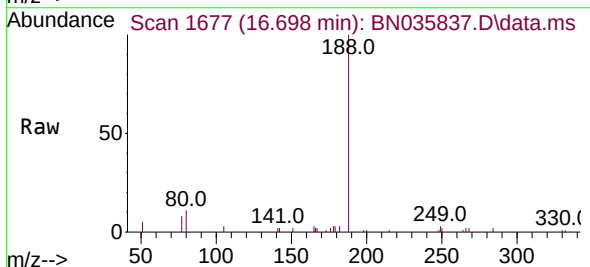
Tgt Ion:188 Resp: 8231

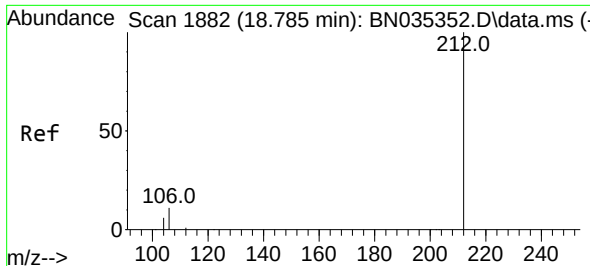
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.2 4.6 6.8#

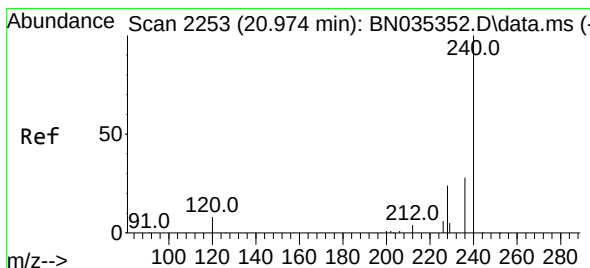
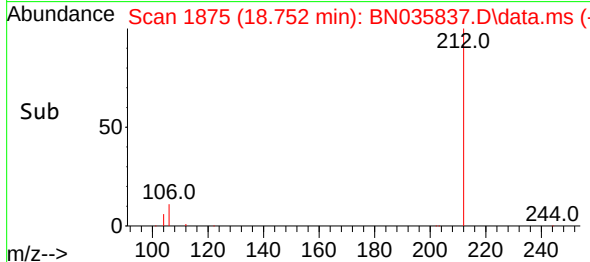
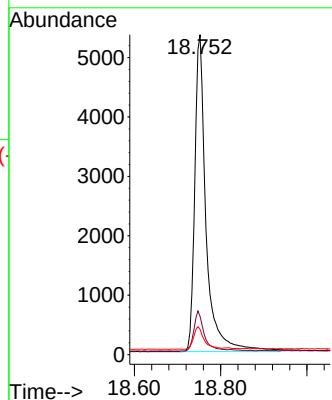
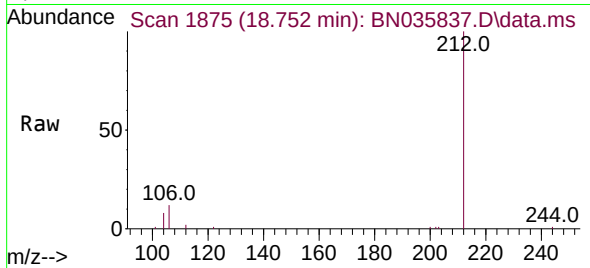




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.752 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

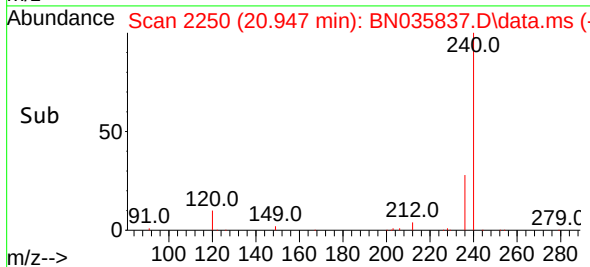
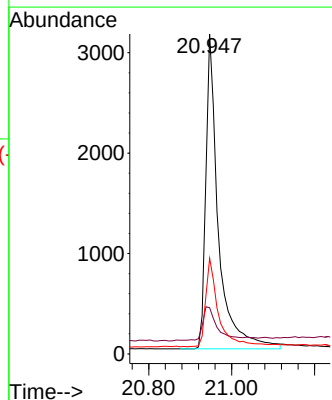
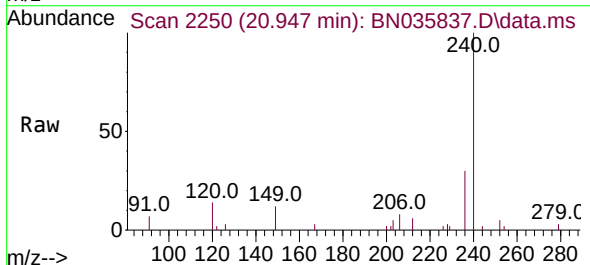
Instrument :
BNA_N
ClientSampleId :
FB03-20241219

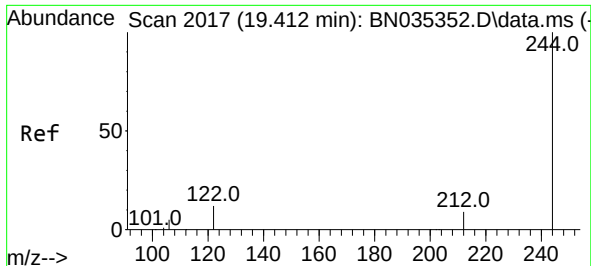
Tgt Ion:212 Resp: 9755
Ion Ratio Lower Upper
212 100
106 12.2 9.2 13.8
104 6.6 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:240 Resp: 6628
Ion Ratio Lower Upper
240 100
120 14.4 7.9 11.9#
236 29.9 22.9 34.3

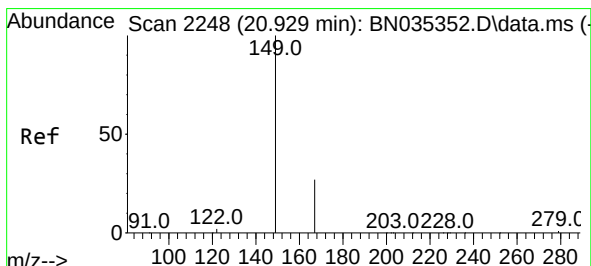
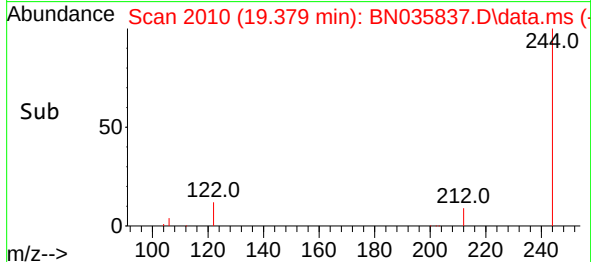
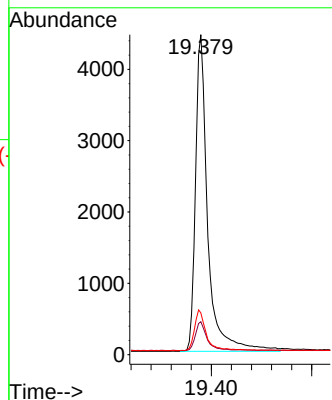
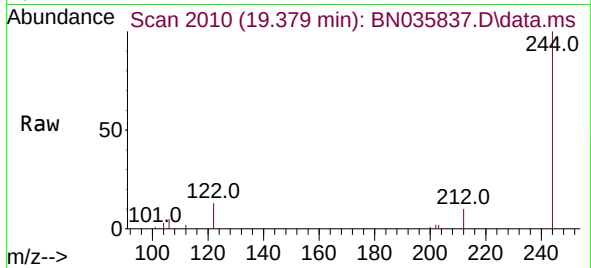




#31
 Terphenyl-d14
 Concen: 0.574 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035837.D
 Acq: 25 Dec 2024 01:40

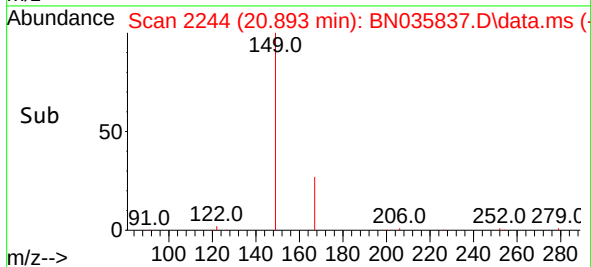
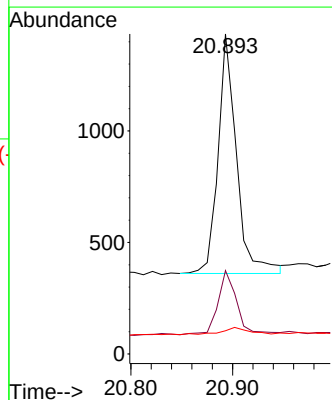
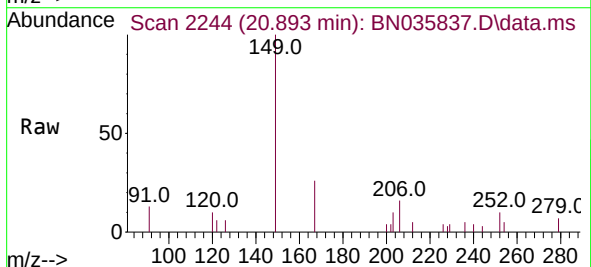
Instrument :
 BNA_N
 ClientSampleId :
 FB03-20241219

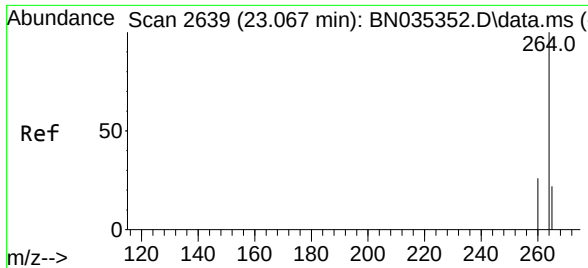
Tgt Ion:244 Resp: 7505
 Ion Ratio Lower Upper
 244 100
 212 10.3 8.1 12.1
 122 13.1 10.3 15.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.147 ng
 RT: 20.893 min Scan# 2244
 Delta R.T. -0.018 min
 Lab File: BN035837.D
 Acq: 25 Dec 2024 01:40

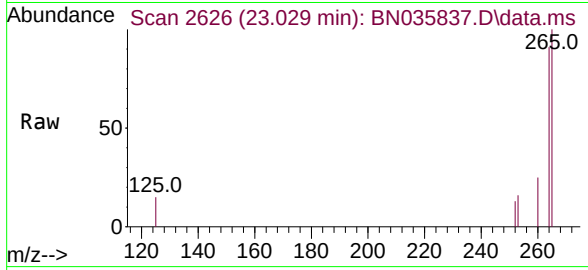
Tgt Ion:149 Resp: 1349
 Ion Ratio Lower Upper
 149 100
 167 27.9 22.2 33.4
 279 4.4 2.7 4.1#





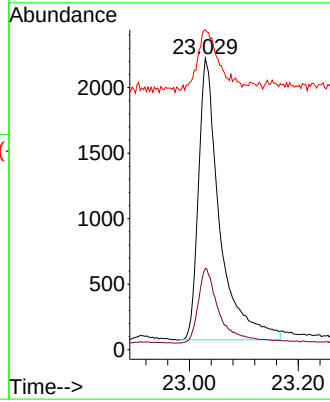
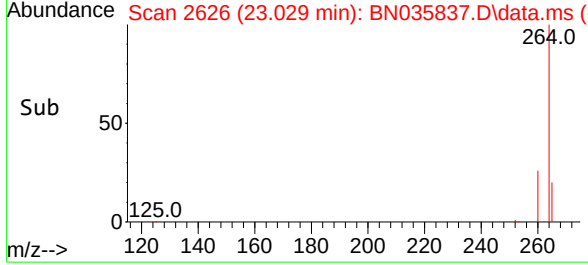
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.029 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BN035837.D
 Acq: 25 Dec 2024 01:40

Instrument :
 BNA_N
 ClientSampleId :
 FB03-20241219



Tgt Ion:264 Resp: 5858

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	109.9	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035843.D
 Acq On : 25 Dec 2024 05:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 25 07:05:57 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)

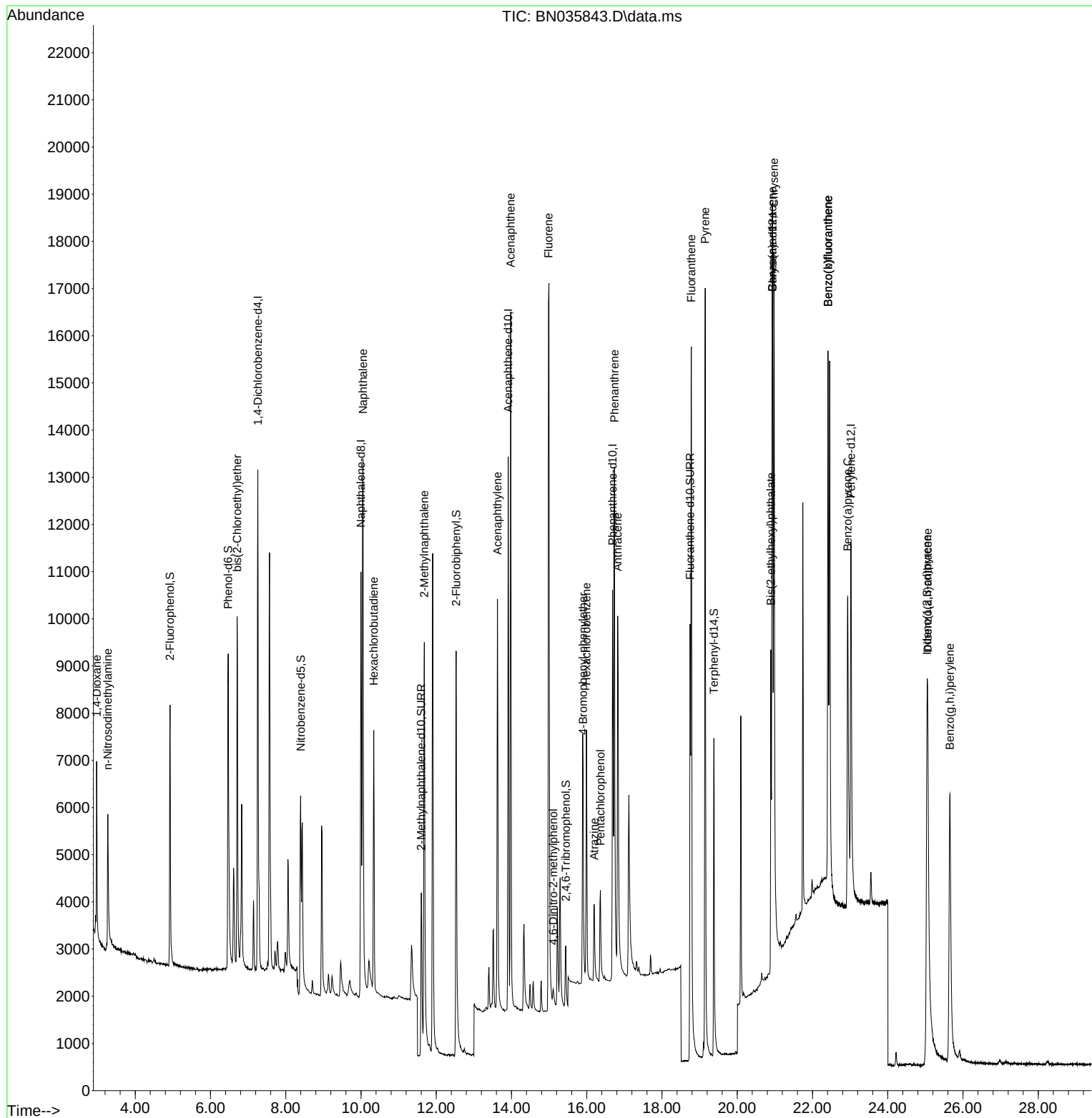
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	5156	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	13078	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	6801	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	13499	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	10827	0.400	ng	#-0.02
35) Perylene-d12	23.023	264	11272	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	4881	0.378	ng	-0.01
5) Phenol-d6	6.470	99	8113	0.523	ng	-0.02
8) Nitrobenzene-d5	8.397	82	4915	0.615	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	6864	0.335	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1590	0.329	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	10817	0.421	ng	-0.02
27) Fluoranthene-d10	18.747	212	12946	0.338	ng	-0.01
31) Terphenyl-d14	19.379	244	8772	0.411	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.974	88	2628	0.533	ng	99
3) n-Nitrosodimethylamine	3.270	42	1575	0.384	ng	# 83
6) bis(2-Chloroethyl)ether	6.708	93	6304	0.483	ng	99
9) Naphthalene	10.052	128	17615	0.511	ng	98
10) Hexachlorobutadiene	10.340	225	4448	0.559	ng	# 99
12) 2-Methylnaphthalene	11.681	142	8694	0.352	ng	98
16) Acenaphthylene	13.625	152	10564	0.370	ng	99
17) Acenaphthene	13.978	154	7280	0.384	ng	99
18) Fluorene	14.983	166	9290	0.342	ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	461	0.347	ng	# 44
21) 4-Bromophenyl-phenylether	15.904	248	2960	0.375	ng	96
22) Hexachlorobenzene	15.991	284	4352	0.469	ng	95
23) Atrazine	16.202	200	2032	0.362	ng	93
24) Pentachlorophenol	16.363	266	1431	0.355	ng	# 85
25) Phenanthrene	16.735	178	14253	0.384	ng	99
26) Anthracene	16.822	178	11727	0.350	ng	99
28) Fluoranthene	18.780	202	16856	0.337	ng	99
30) Pyrene	19.147	202	17619	0.441	ng	99
32) Benzo(a)anthracene	20.929	228	13110	0.346	ng	99
33) Chrysene	20.974	228	16237	0.416	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	5933	0.397	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15331	0.348	ng	99
37) Benzo(b)fluoranthene	22.412	252	25617	0.621	ng	# 96
38) Benzo(k)fluoranthene	22.412	252	25617	0.631	ng	97
39) Benzo(a)pyrene	22.936	252	12667	0.373	ng	# 90
40) Dibenzo(a,h)anthracene	25.061	278	11116	0.320	ng	94
41) Benzo(g,h,i)perylene	25.652	276	14070	0.387	ng	98

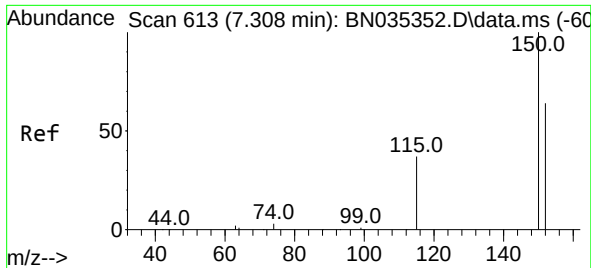
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 25 07:05:57 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

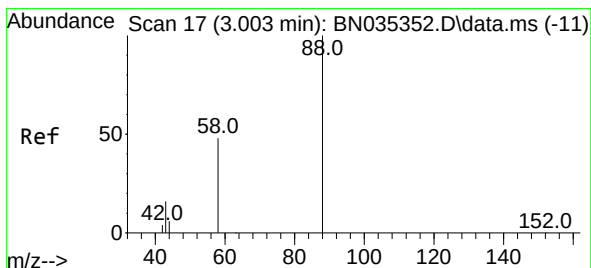
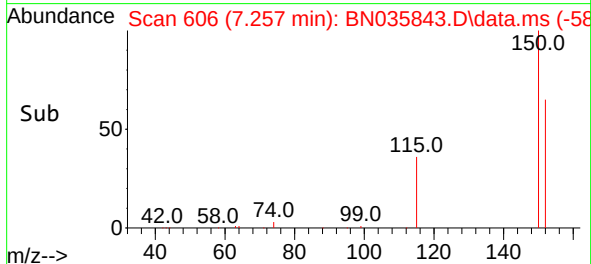
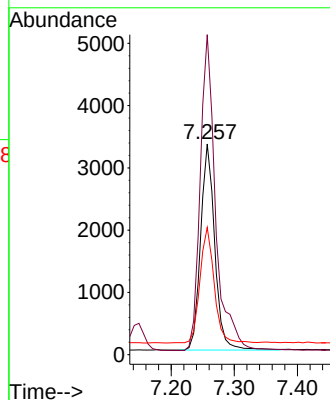
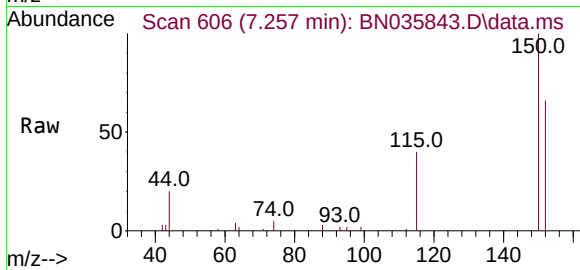




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

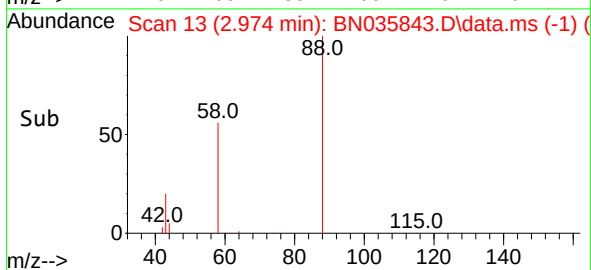
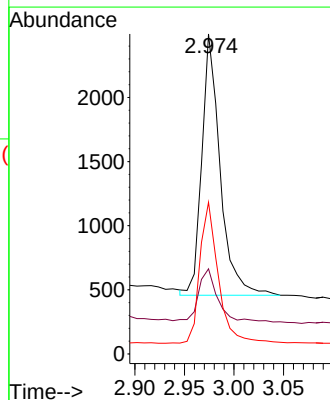
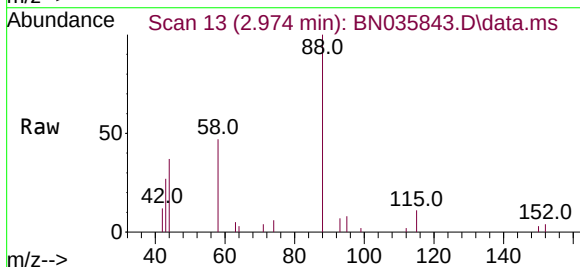
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

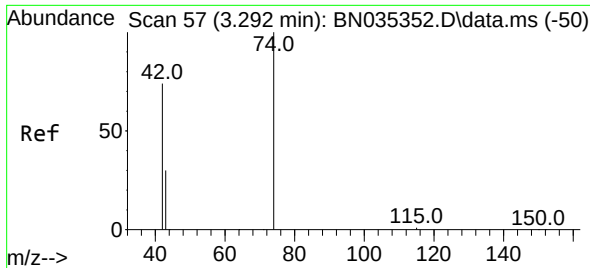
Tgt Ion:152 Resp: 5156
 Ion Ratio Lower Upper
 152 100
 150 151.9 124.0 186.0
 115 60.4 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.533 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

Tgt Ion: 88 Resp: 2628
 Ion Ratio Lower Upper
 88 100
 43 21.2 17.2 25.8
 58 54.7 44.5 66.7

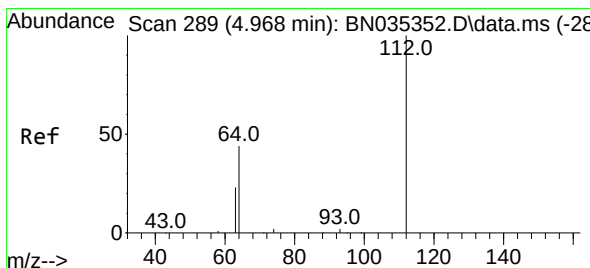
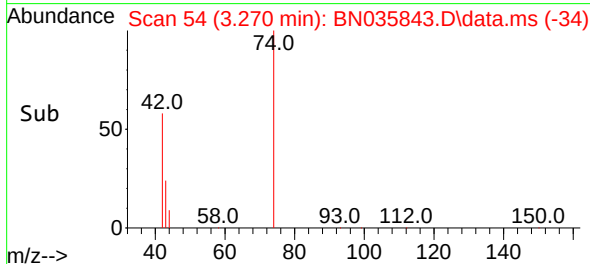
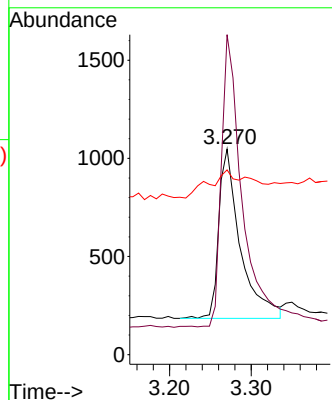
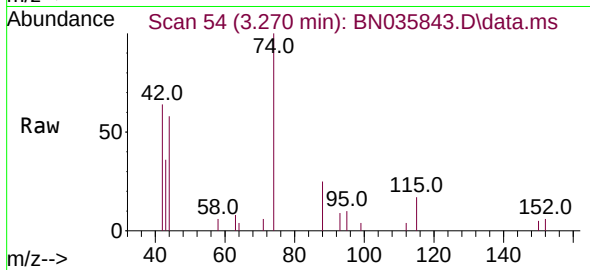




#3
 n-Nitrosodimethylamine
 Concen: 0.384 ng
 RT: 3.270 min Scan# 54
 Delta R.T. -0.007 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

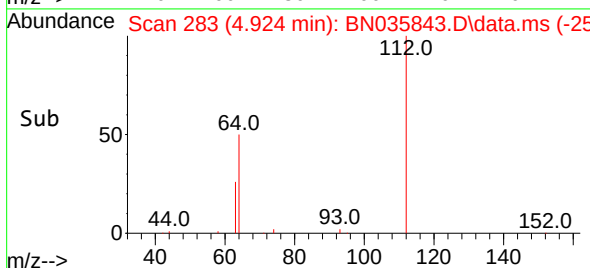
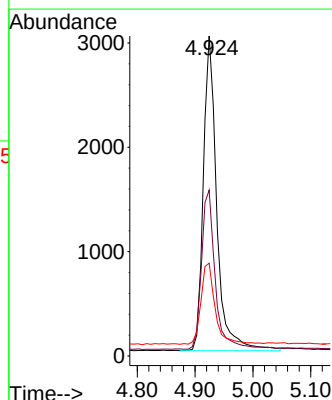
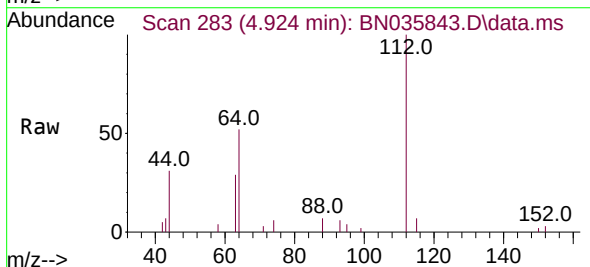
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

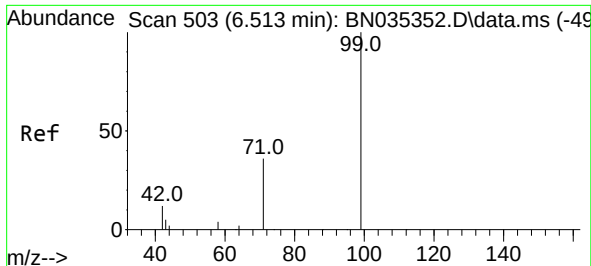
Tgt Ion: 42 Resp: 1575
 Ion Ratio Lower Upper
 42 100
 74 177.0 124.9 187.3
 44 20.2 2.2 3.4#



#4
 2-Fluorophenol
 Concen: 0.378 ng
 RT: 4.924 min Scan# 283
 Delta R.T. -0.015 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

Tgt Ion: 112 Resp: 4881
 Ion Ratio Lower Upper
 112 100
 64 52.0 39.8 59.8
 63 27.3 21.0 31.6

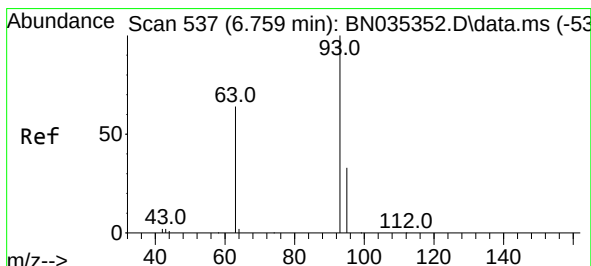
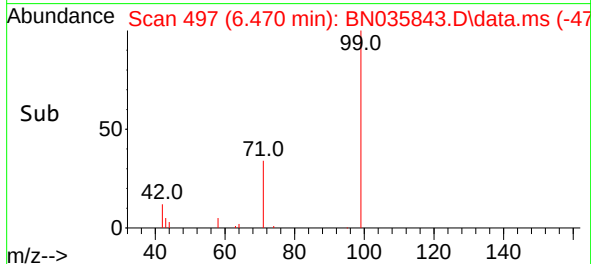
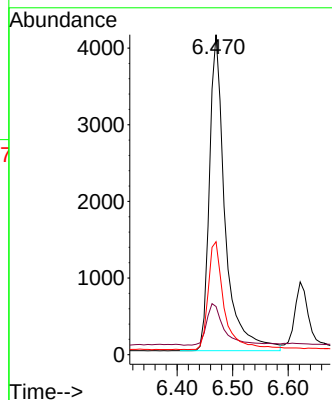
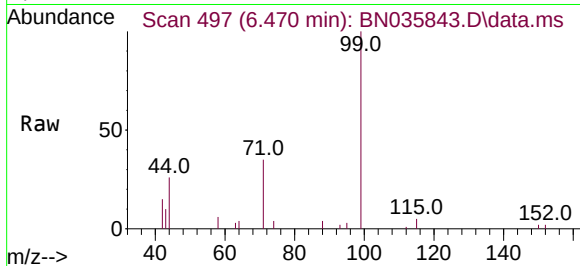




#5
Phenol-d6
Concen: 0.523 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

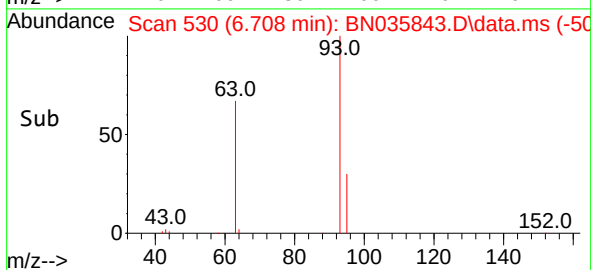
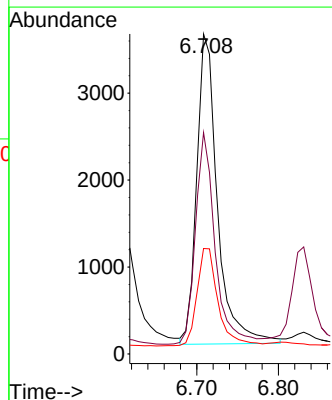
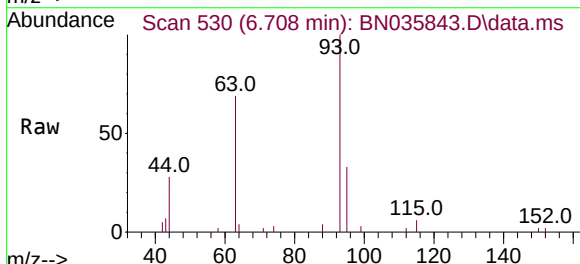
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

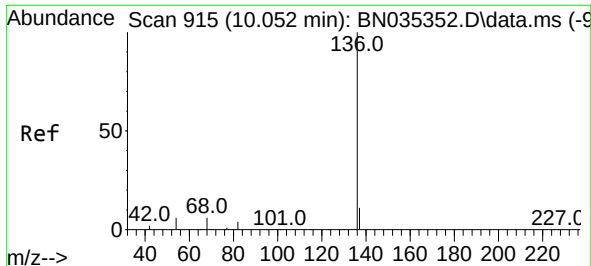
Tgt Ion:	99	Resp:	8113
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.5	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.483 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:	93	Resp:	6304
Ion	Ratio	Lower	Upper
93	100		
63	64.6	50.4	75.6
95	32.1	25.7	38.5

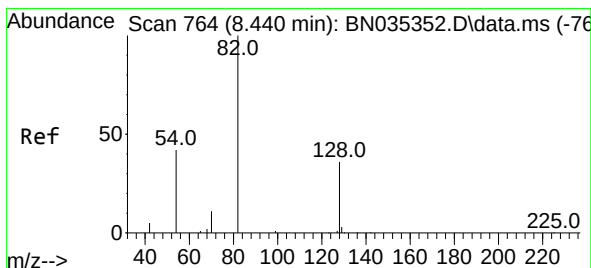
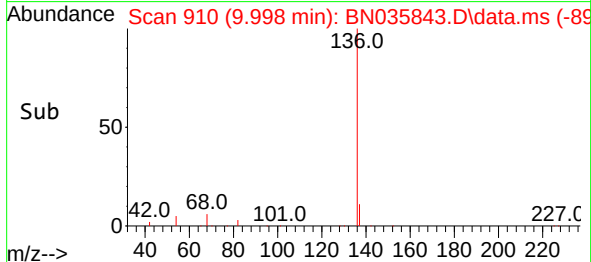
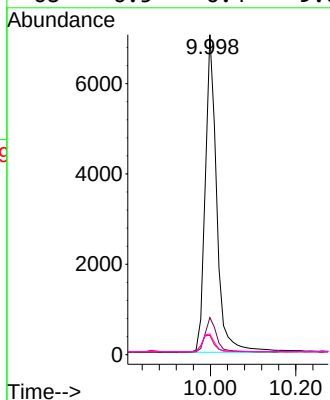
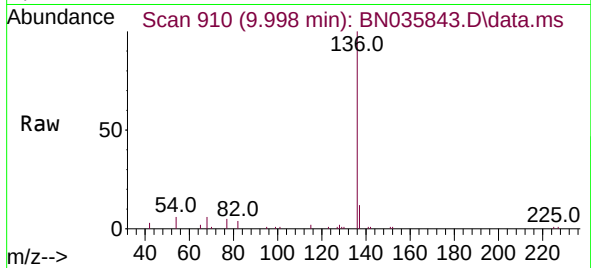




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

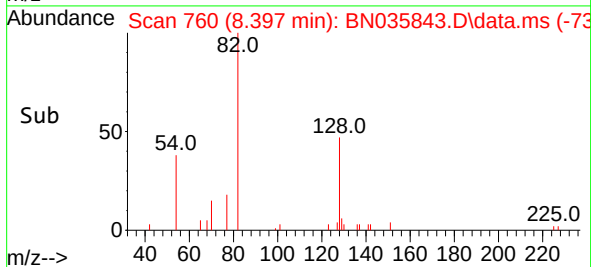
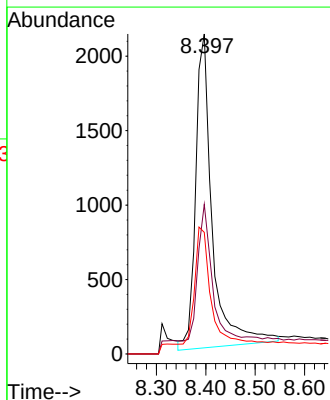
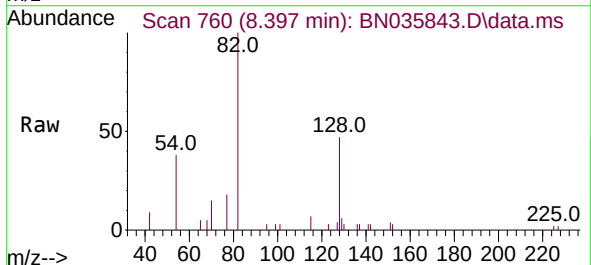
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

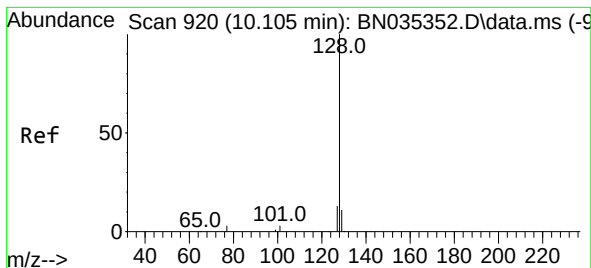
Tgt Ion:136	Resp:	13078
Ion Ratio	Lower	Upper
136	100	
137	11.6	10.2 15.2
54	6.1	6.1 9.1#
68	6.5	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.615 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 82	Resp:	4915
Ion Ratio	Lower	Upper
82	100	
128	46.8	33.4 50.0
54	38.0	36.7 55.1





#9

Naphthalene

Concen: 0.511 ng

RT: 10.052 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

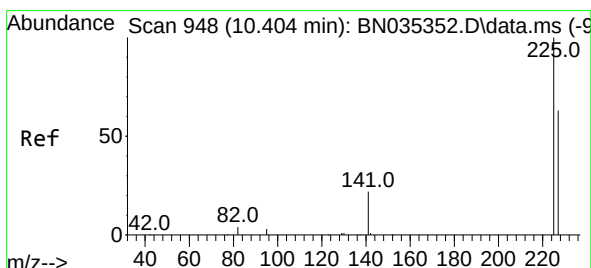
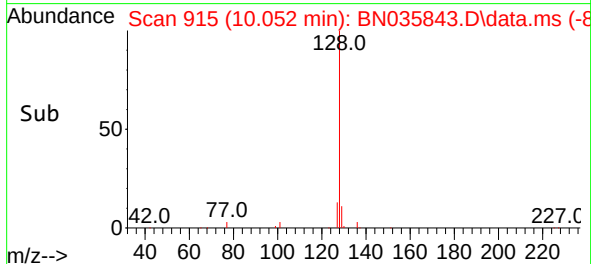
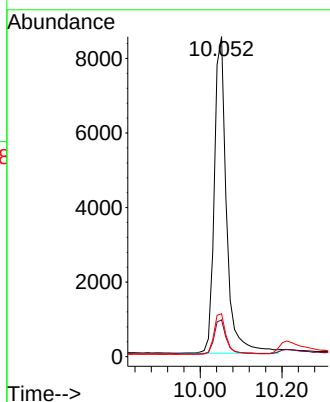
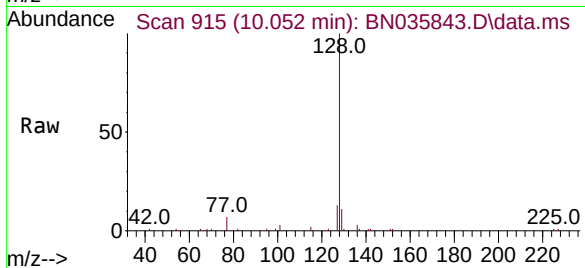
Tgt Ion:128 Resp: 17615

Ion Ratio Lower Upper

128 100

129 11.5 9.8 14.6

127 13.4 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.559 ng

RT: 10.340 min Scan# 942

Delta R.T. -0.022 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

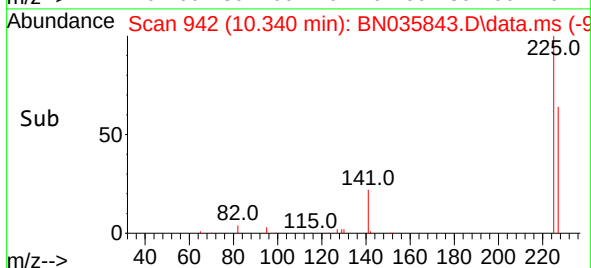
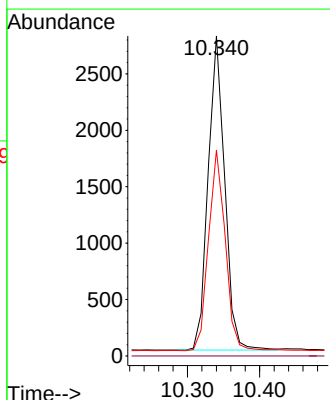
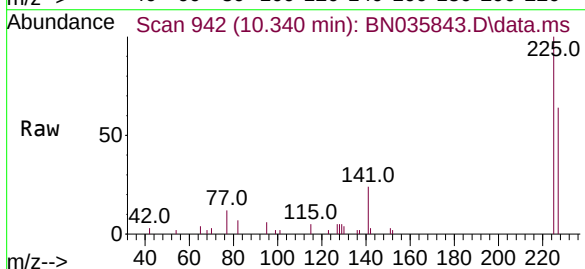
Tgt Ion:225 Resp: 4448

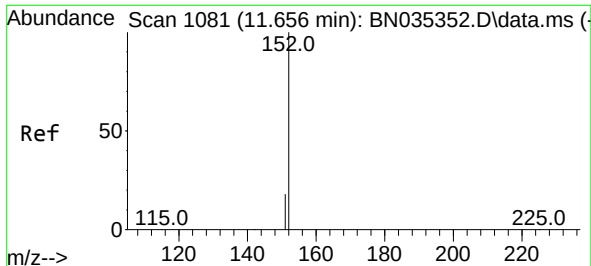
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.0 51.3 76.9

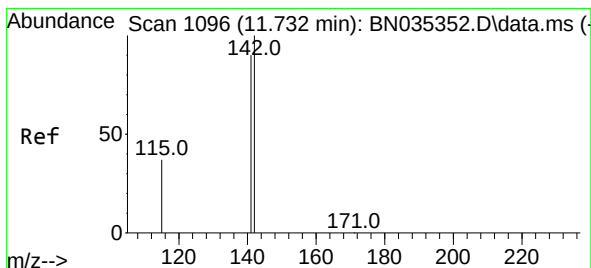
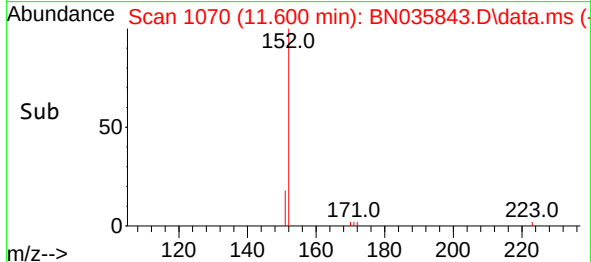
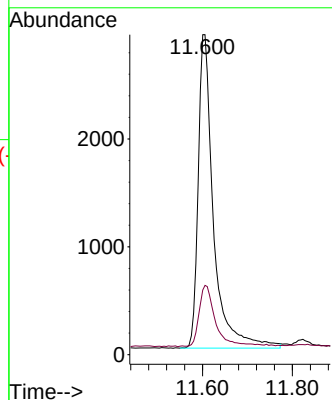
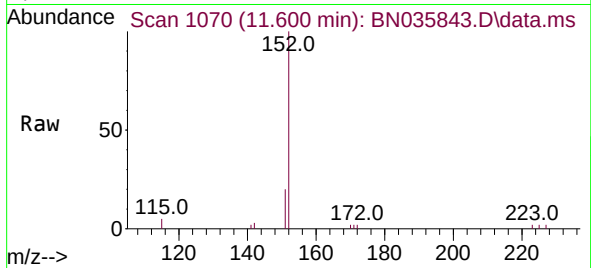




#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

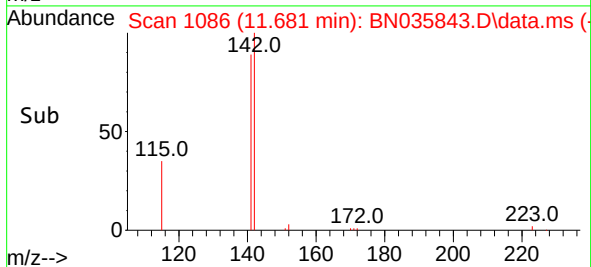
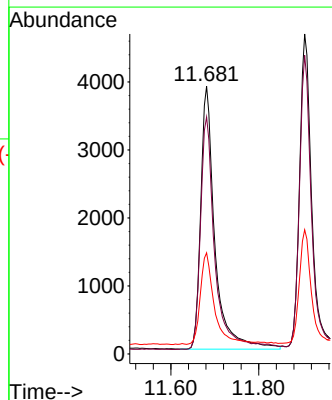
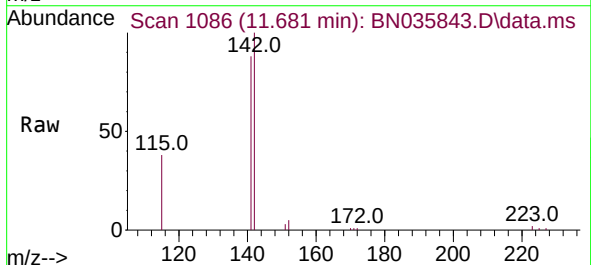
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

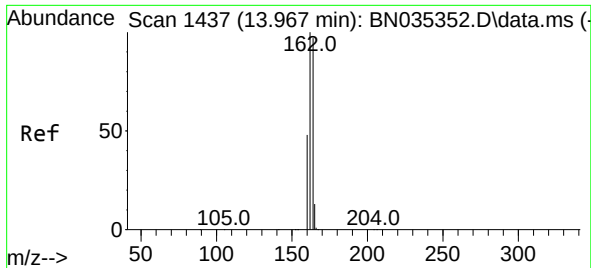
Tgt Ion:152 Resp: 6864
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:142 Resp: 8694
Ion Ratio Lower Upper
142 100
141 88.5 72.2 108.4
115 37.8 31.4 47.0

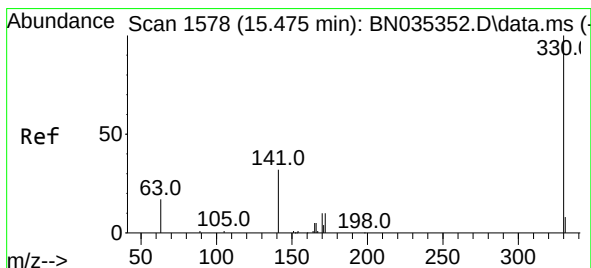
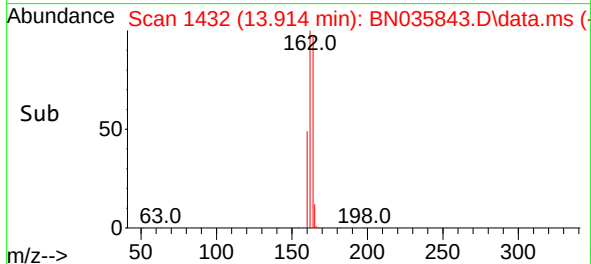
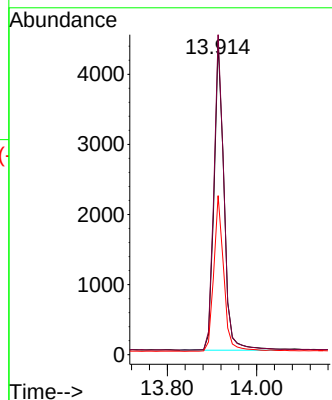
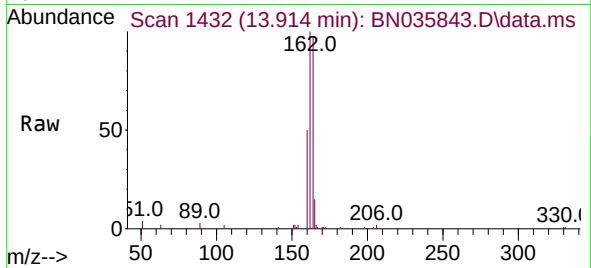




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

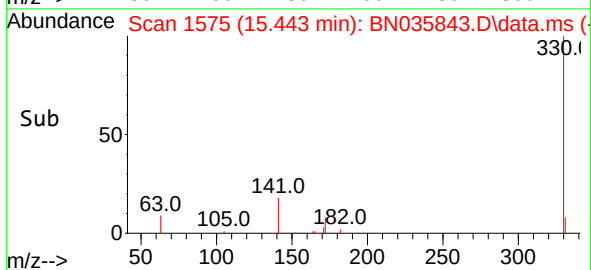
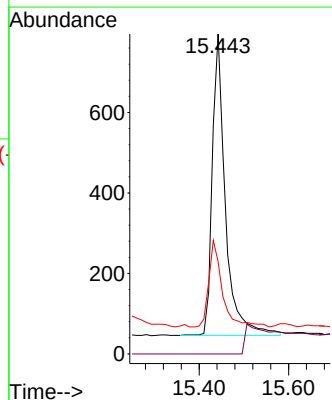
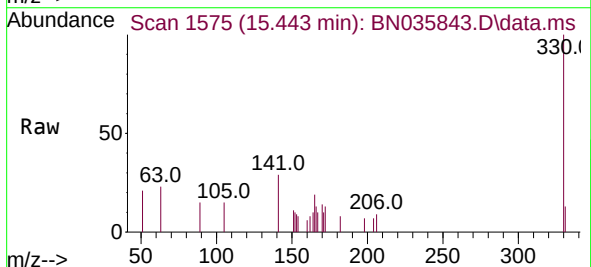
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

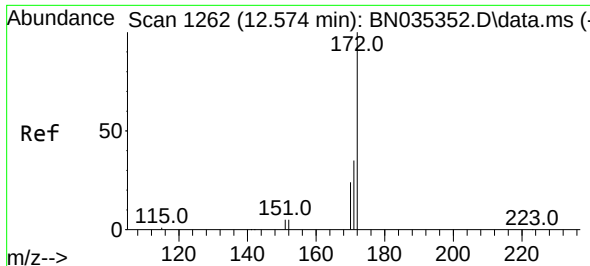
Tgt Ion:164 Resp: 6801
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 51.0 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:330 Resp: 1590
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.5 26.6 40.0

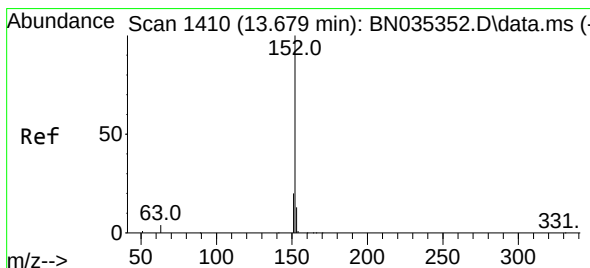
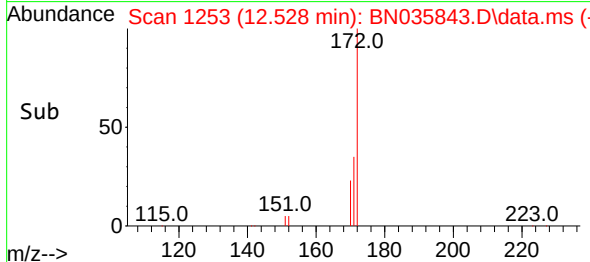
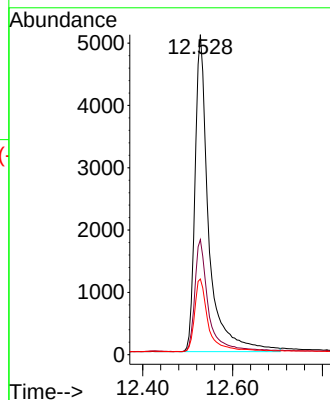
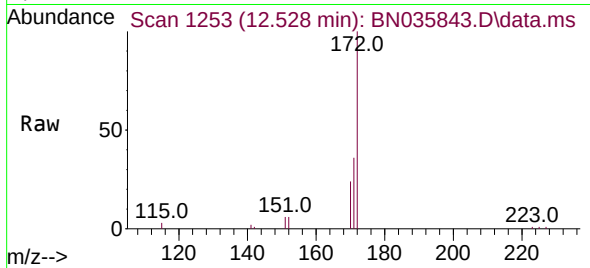




#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

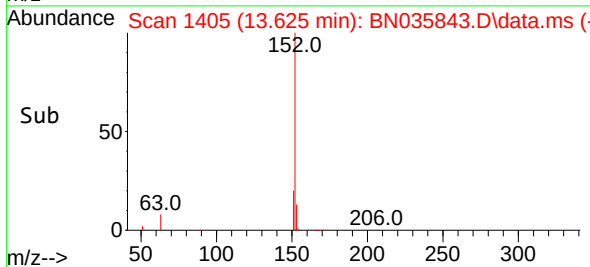
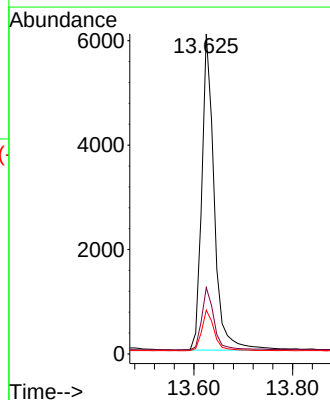
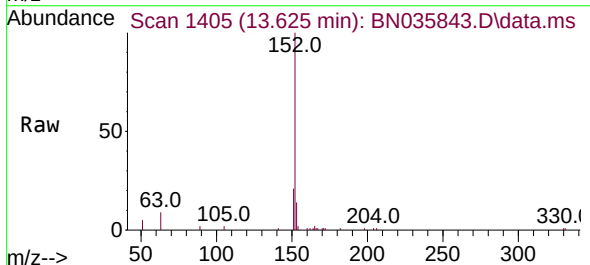
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

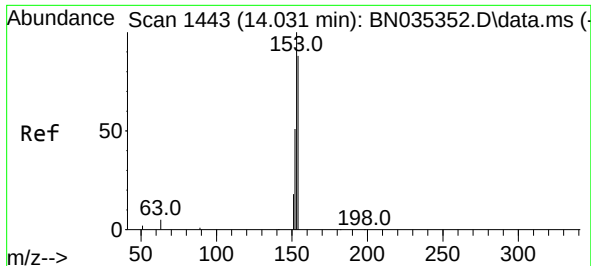
Tgt Ion:172 Resp: 10817
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 23.6 19.8 29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 10564
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 13.1 10.4 15.6

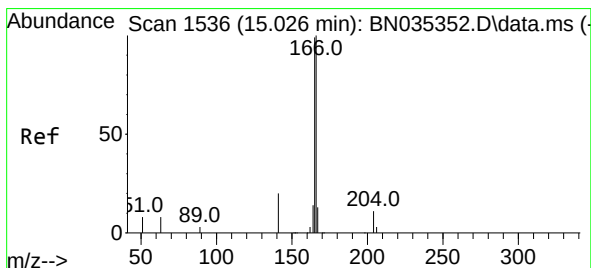
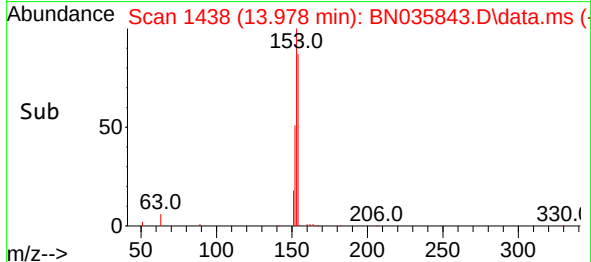
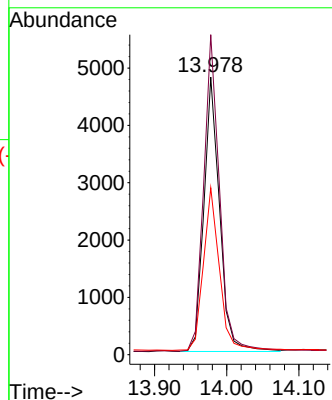
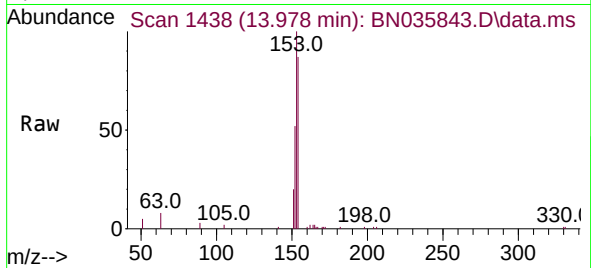




#17
Acenaphthene
Concen: 0.384 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

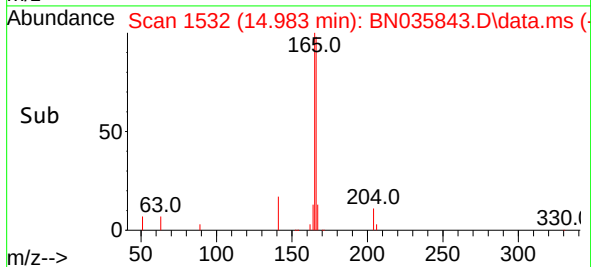
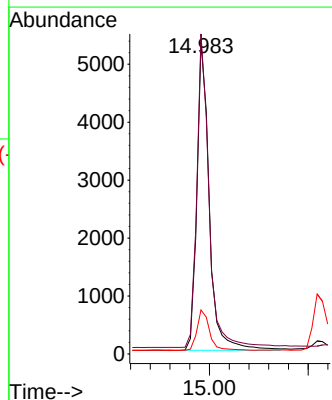
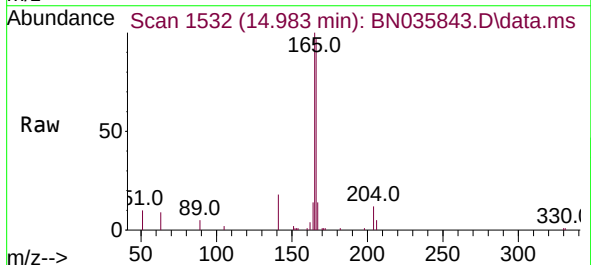
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

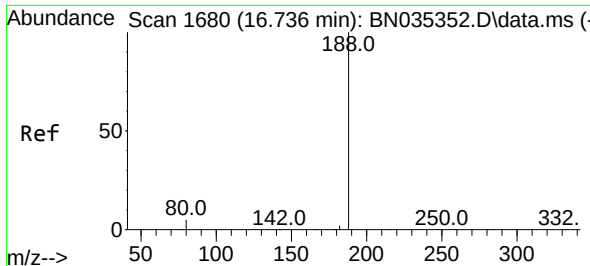
Tgt Ion:154 Resp: 7280
Ion Ratio Lower Upper
154 100
153 116.2 92.6 139.0
152 60.3 49.0 73.6



#18
Fluorene
Concen: 0.342 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:166 Resp: 9290
Ion Ratio Lower Upper
166 100
165 99.5 79.7 119.5
167 13.4 10.8 16.2

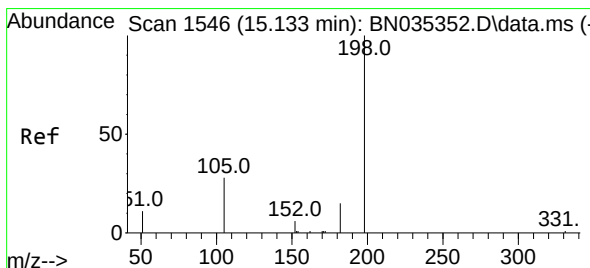
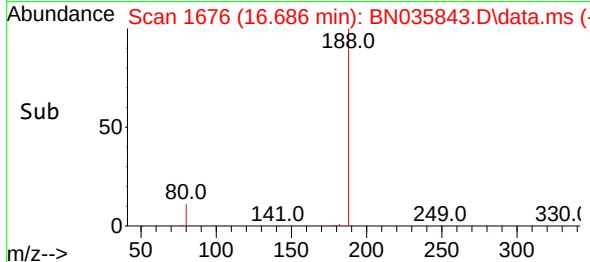
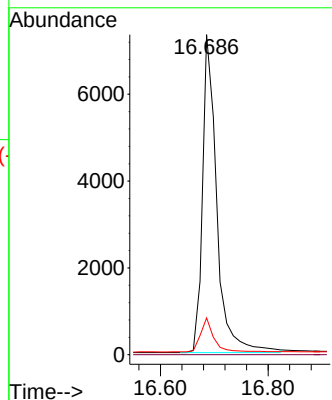
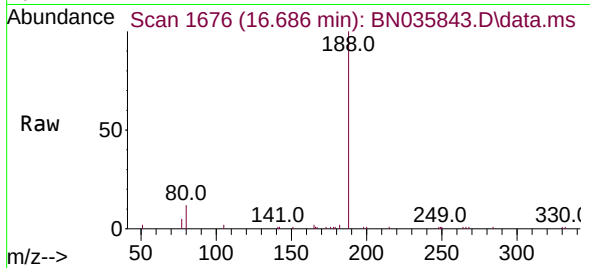




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

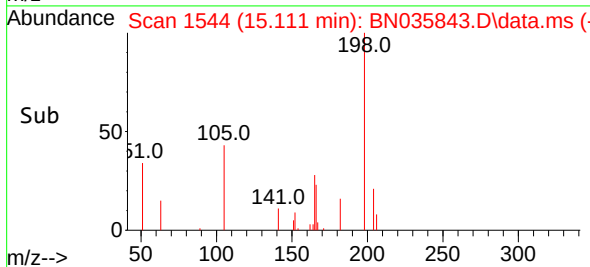
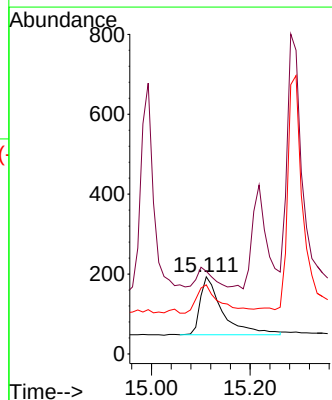
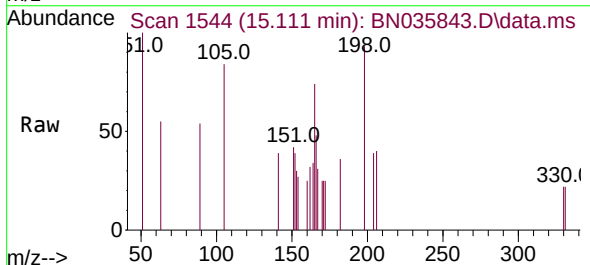
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

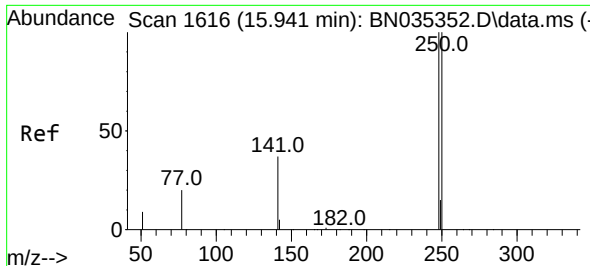
Tgt Ion:188 Resp: 13499
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.5 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.347 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:198 Resp: 461
Ion Ratio Lower Upper
198 100
51 107.3 46.5 69.7#
105 89.6 45.3 67.9#

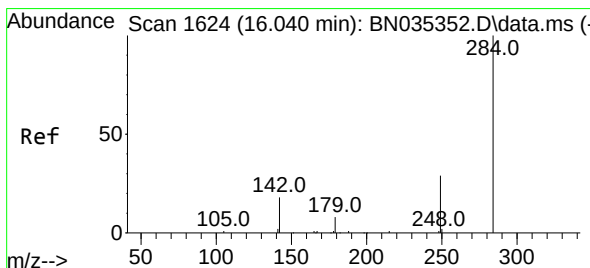
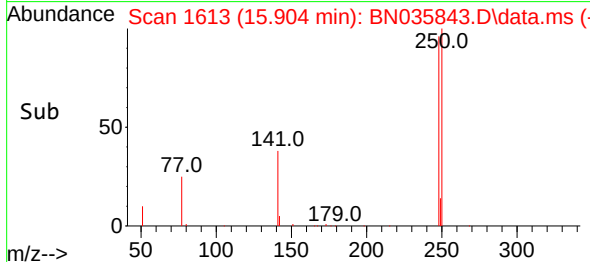
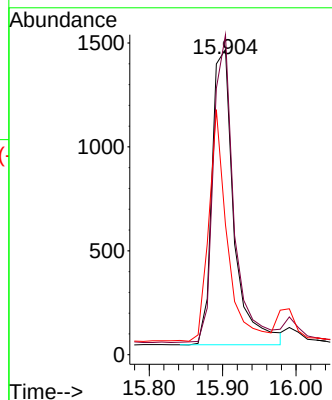
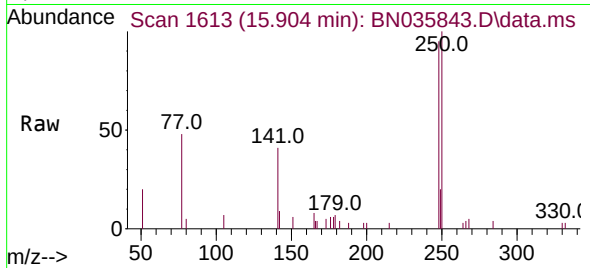




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

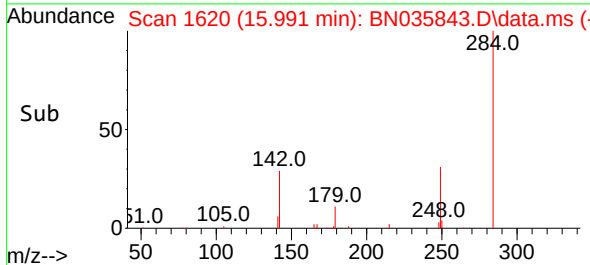
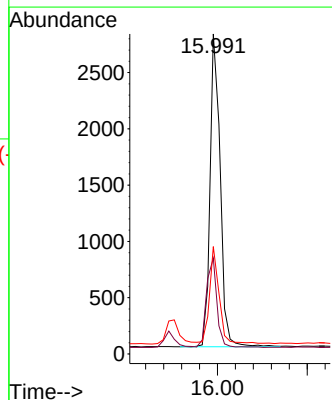
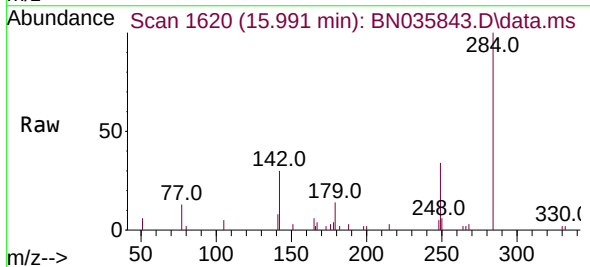
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

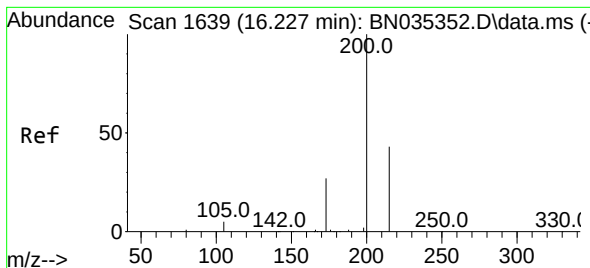
Tgt Ion:248 Resp: 2960
Ion Ratio Lower Upper
248 100
250 104.8 80.6 120.8
141 42.5 31.5 47.3



#22
Hexachlorobenzene
Concen: 0.469 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:284 Resp: 4352
Ion Ratio Lower Upper
284 100
142 29.5 26.7 40.1
249 29.5 24.6 36.8





#23

Atrazine

Concen: 0.362 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

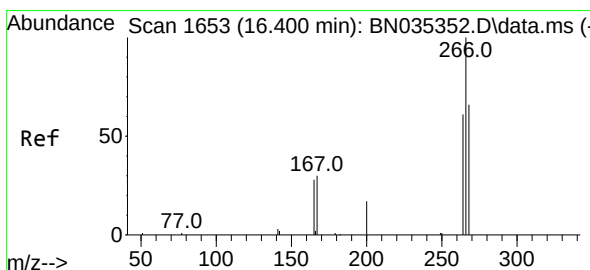
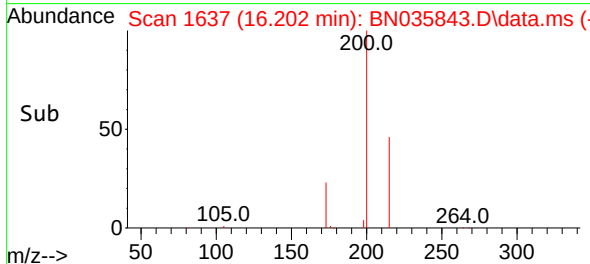
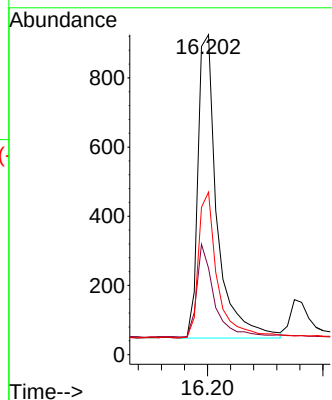
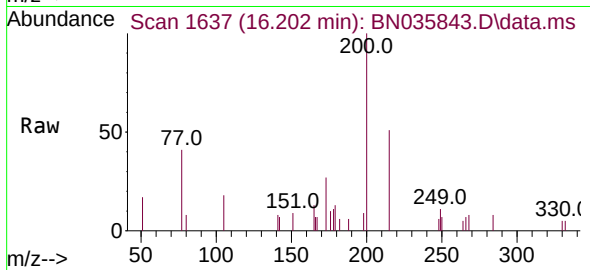
Tgt Ion:200 Resp: 2032

Ion Ratio Lower Upper

200 100

173 27.0 24.1 36.1

215 50.8 36.9 55.3



#24

Pentachlorophenol

Concen: 0.355 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.013 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

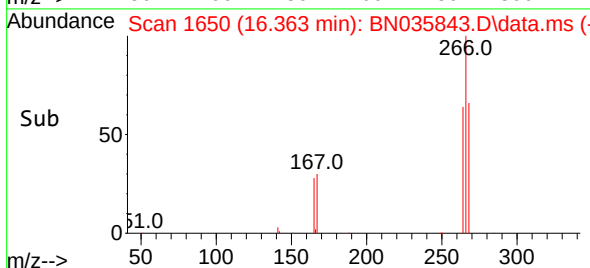
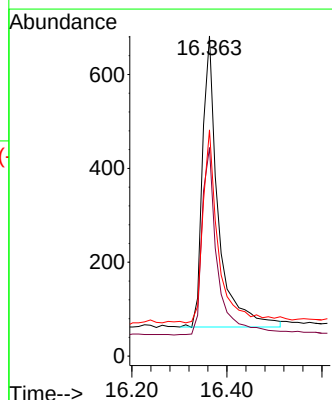
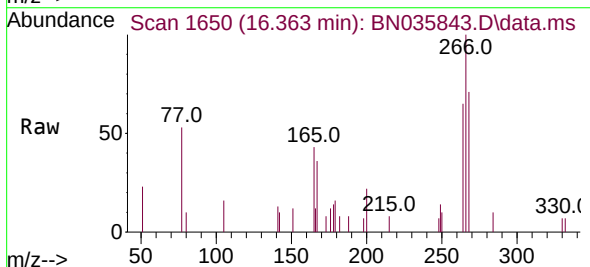
Tgt Ion:266 Resp: 1431

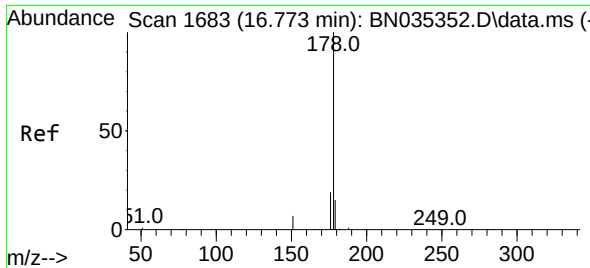
Ion Ratio Lower Upper

266 100

264 63.7 42.3 63.5#

268 64.5 43.3 64.9

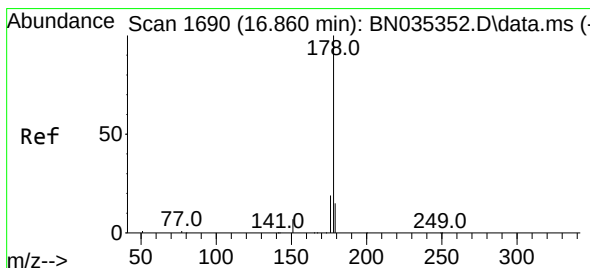
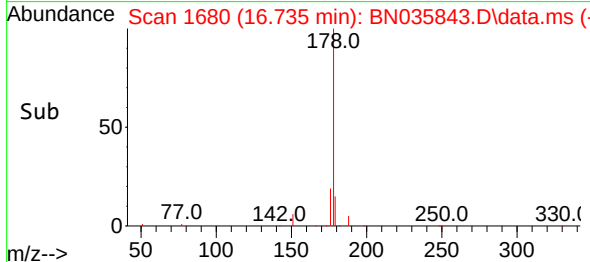
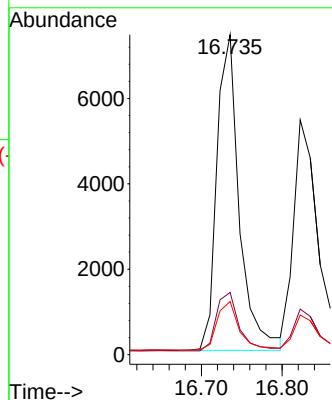
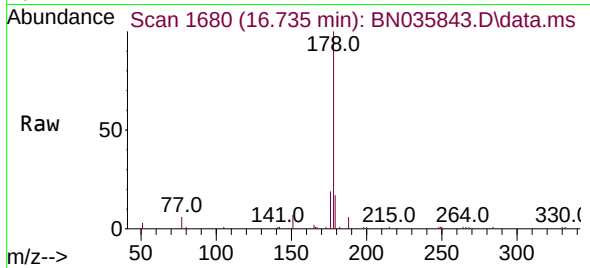




#25
Phenanthrene
Concen: 0.384 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

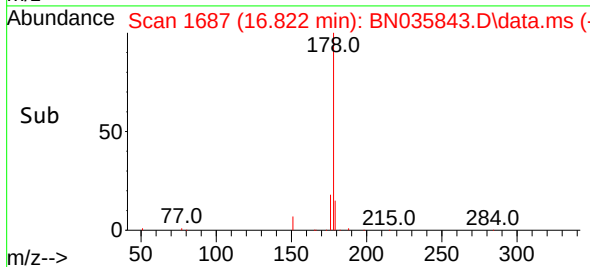
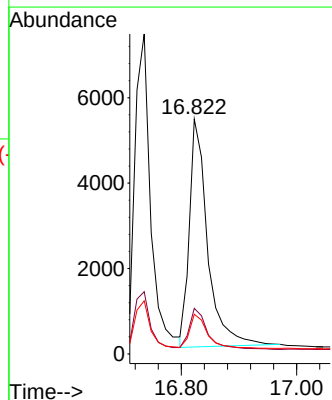
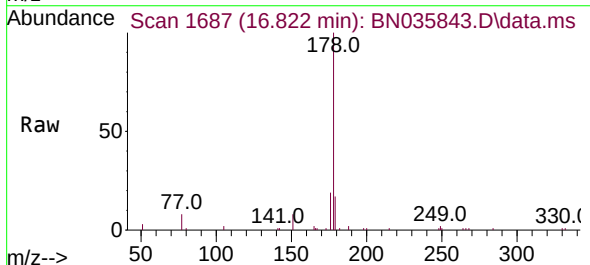
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

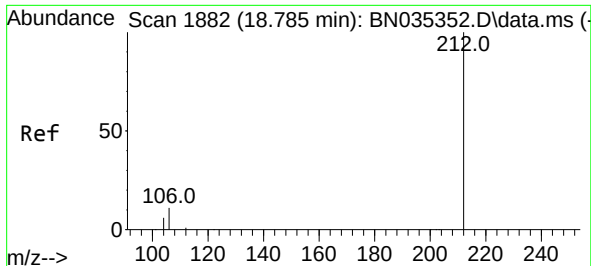
Tgt Ion:178 Resp: 14253
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.350 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 11727
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.0 12.6 18.8

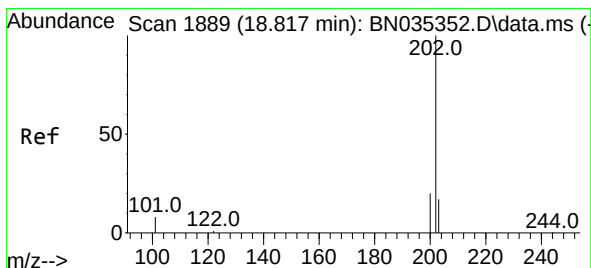
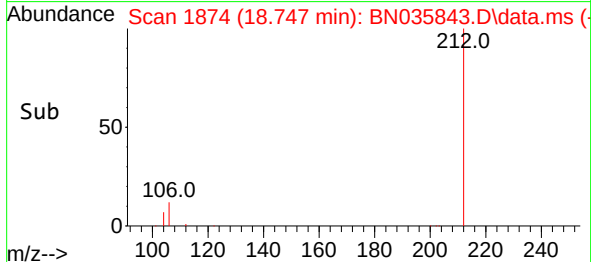
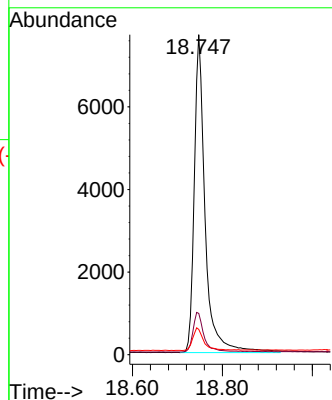
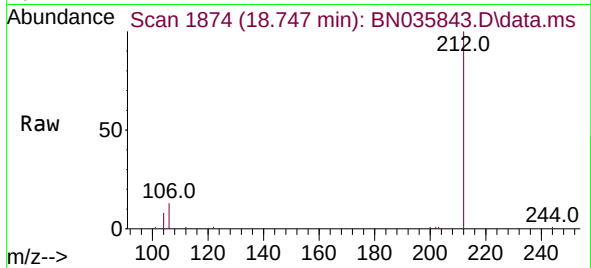




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

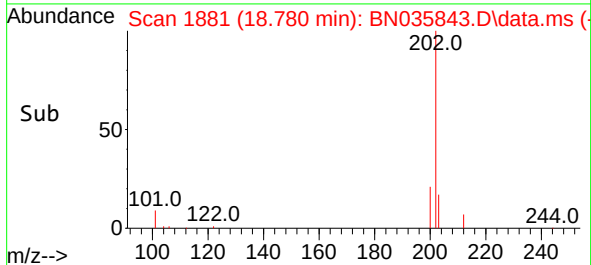
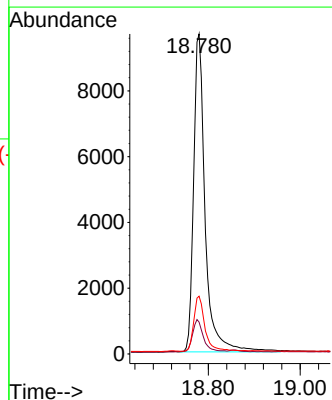
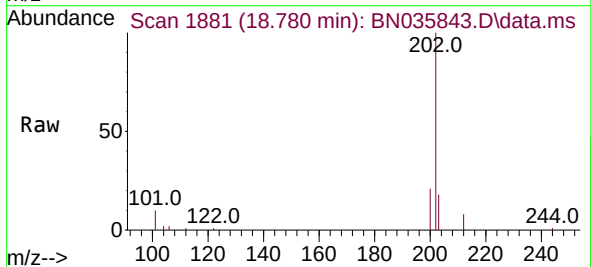
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

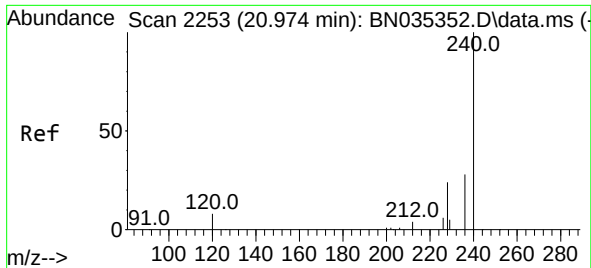
Tgt Ion:212 Resp: 12946
Ion Ratio Lower Upper
212 100
106 12.6 9.2 13.8
104 7.2 5.3 7.9



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 16856
Ion Ratio Lower Upper
202 100
101 9.9 7.4 11.0
203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

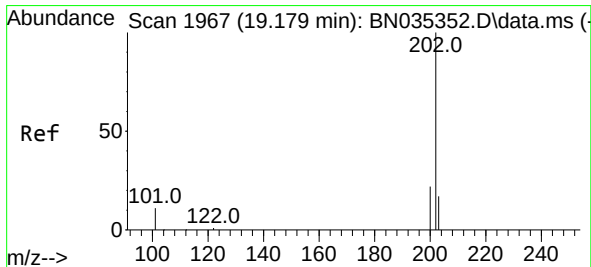
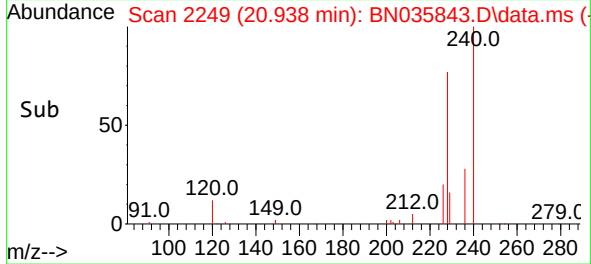
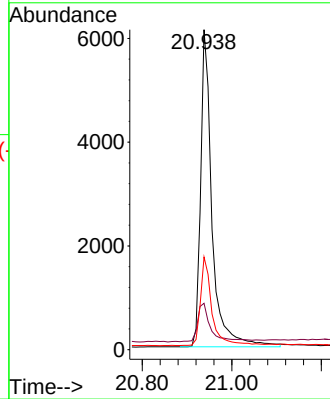
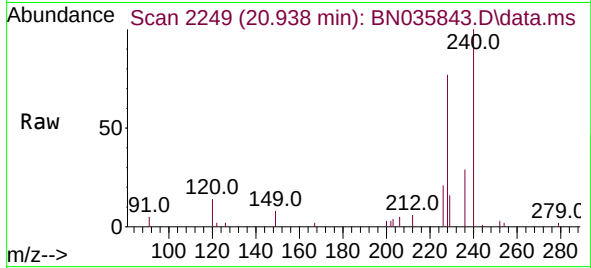
Tgt Ion:240 Resp: 10827

Ion Ratio Lower Upper

240 100

120 14.5 7.9 11.9#

236 29.0 22.9 34.3



#30

Pyrene

Concen: 0.441 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

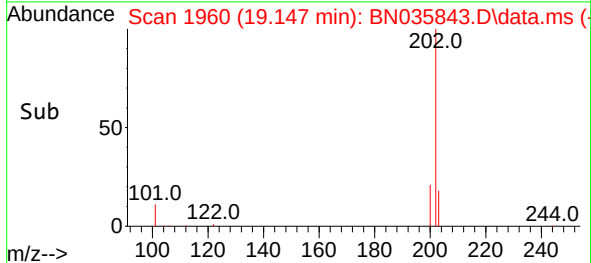
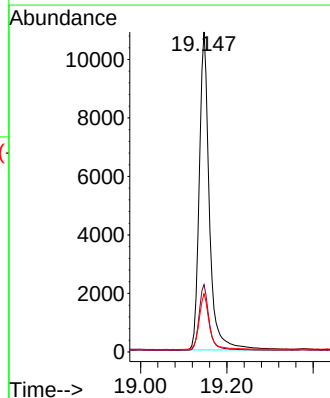
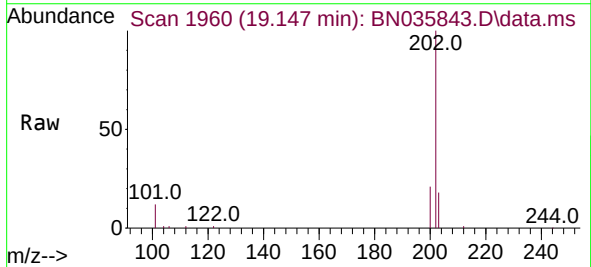
Tgt Ion:202 Resp: 17619

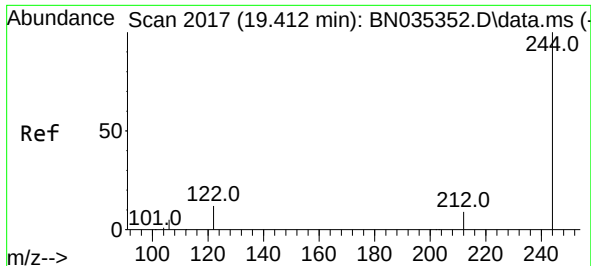
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 17.8 14.3 21.5

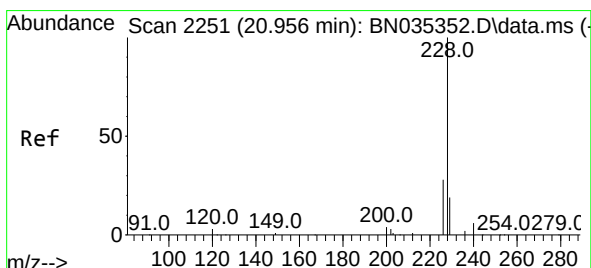
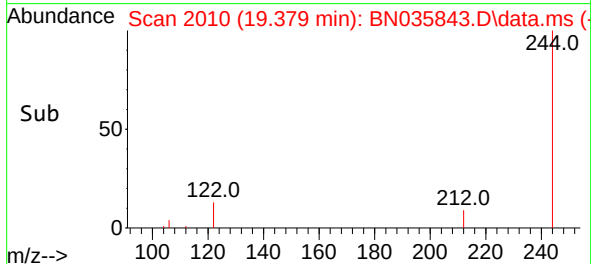
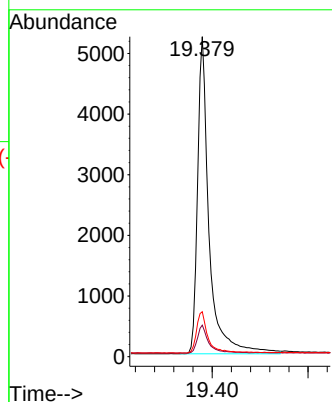
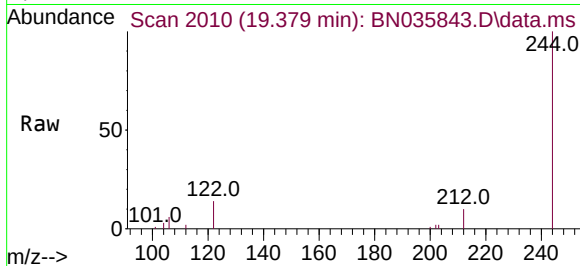




#31
 Terphenyl-d14
 Concen: 0.411 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

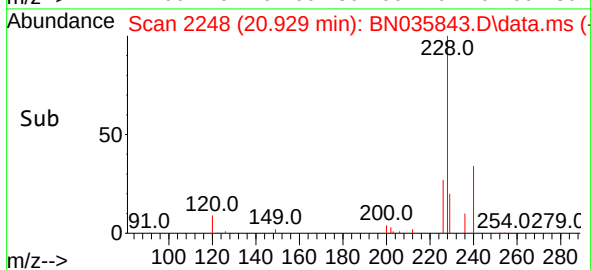
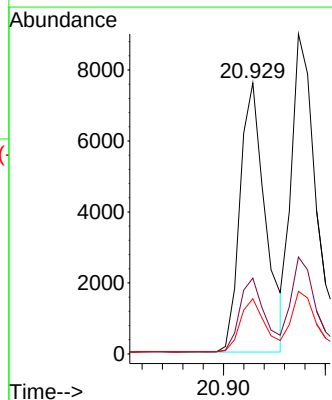
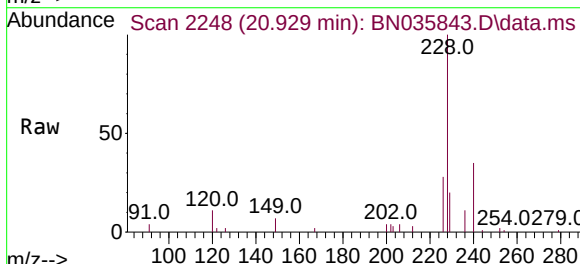
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

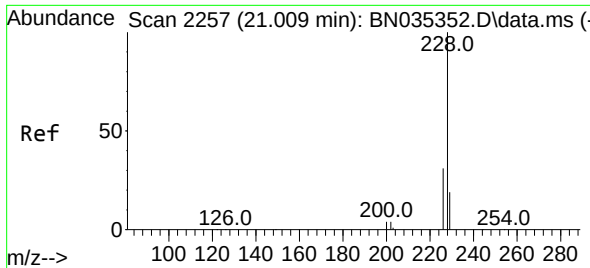
Tgt Ion:244 Resp: 8772
 Ion Ratio Lower Upper
 244 100
 212 9.8 8.1 12.1
 122 14.1 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.346 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 13110
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.5 33.7
 229 20.3 15.8 23.8





#33

Chrysene

Concen: 0.416 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

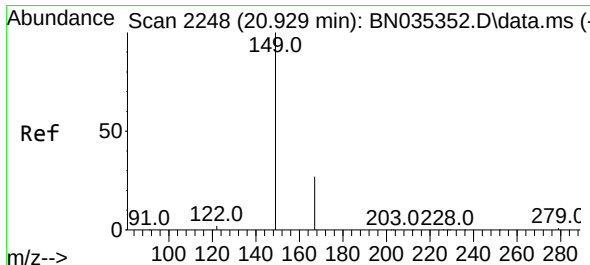
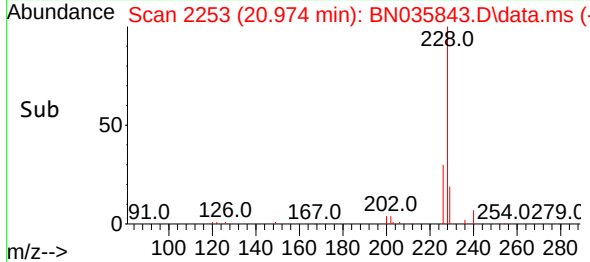
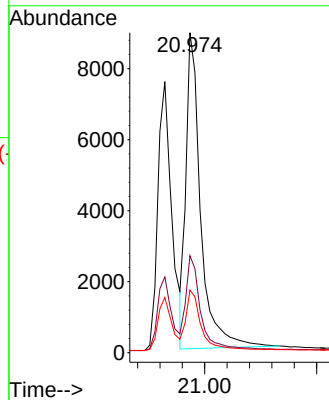
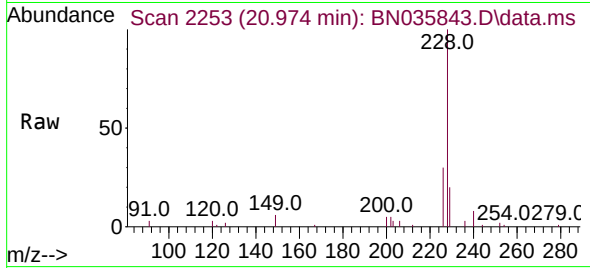
Tgt Ion:228 Resp: 16237

Ion Ratio Lower Upper

228 100

226 30.3 24.6 37.0

229 19.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.397 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

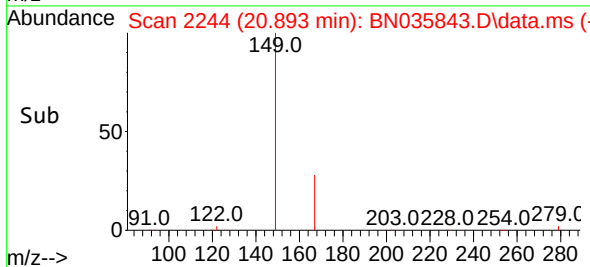
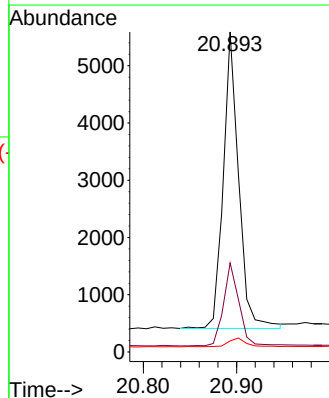
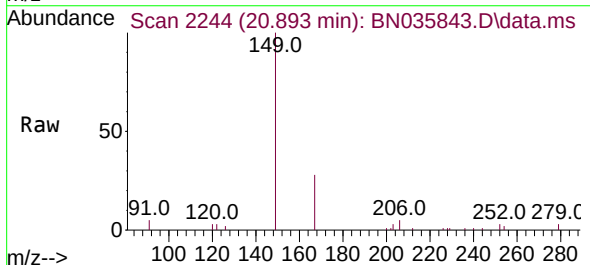
Tgt Ion:149 Resp: 5933

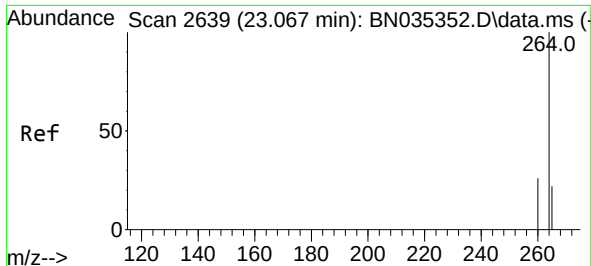
Ion Ratio Lower Upper

149 100

167 28.1 22.2 33.4

279 3.5 2.7 4.1

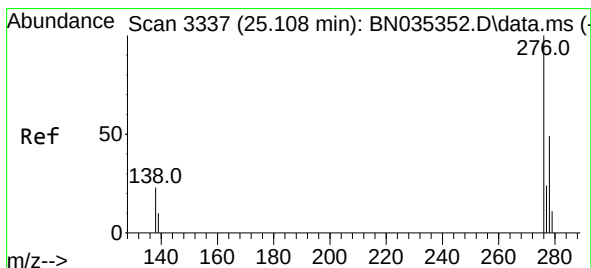
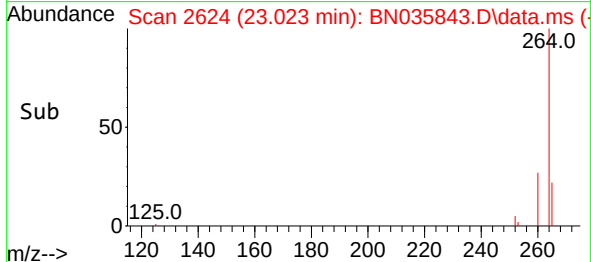
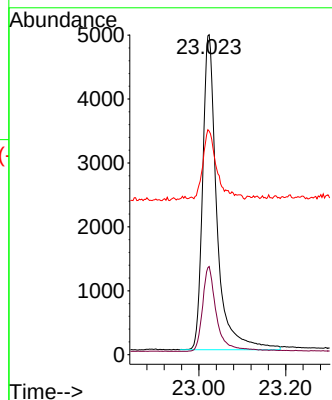
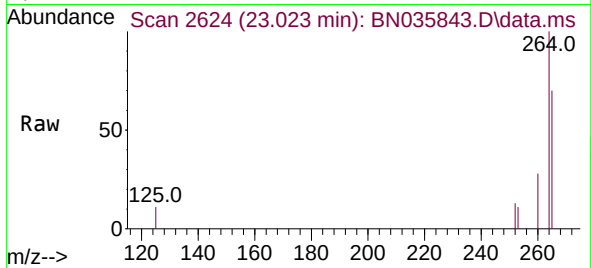




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

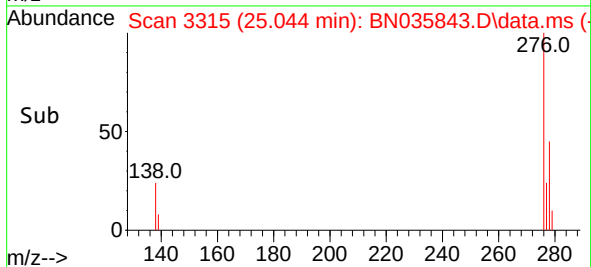
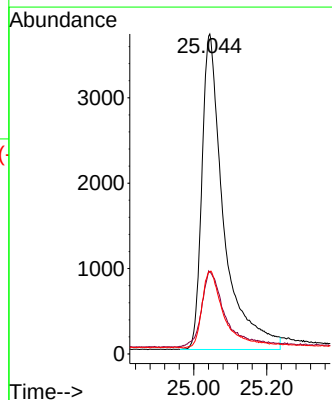
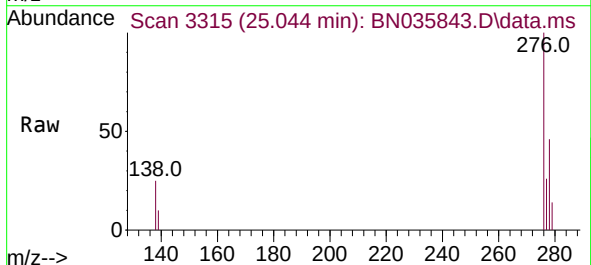
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

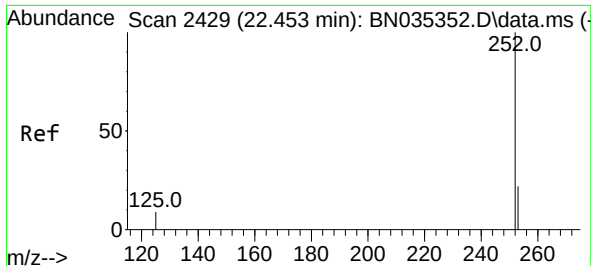
Tgt Ion:264 Resp: 11272
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 69.9 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 15331
Ion Ratio Lower Upper
276 100
138 24.4 19.4 29.0
277 24.2 19.8 29.6

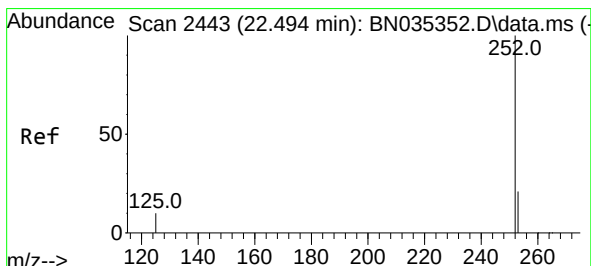
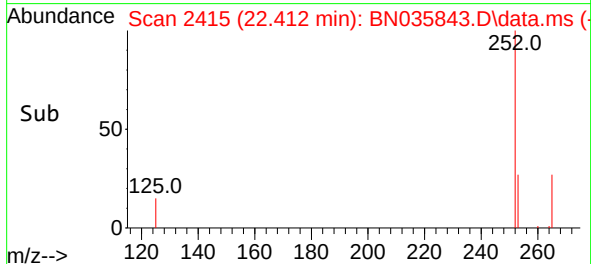
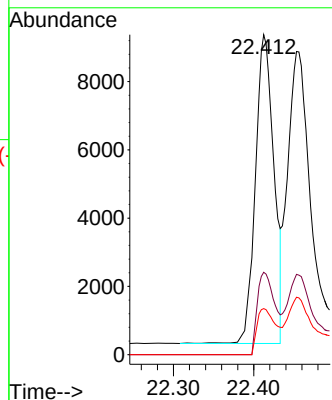
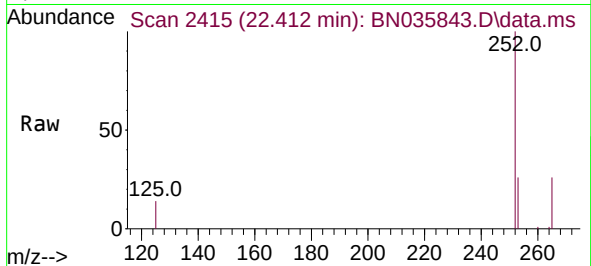




#37
Benzo(b)fluoranthene
Concen: 0.621 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

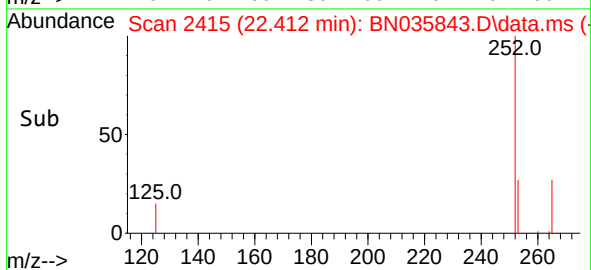
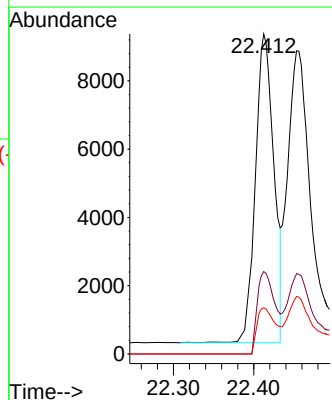
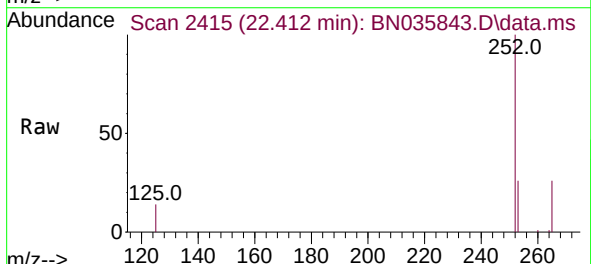
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

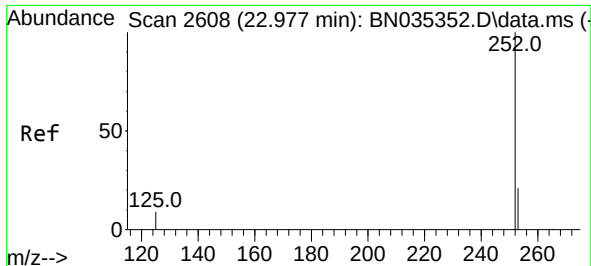
Tgt Ion:252 Resp: 25617
Ion Ratio Lower Upper
252 100
253 25.7 19.6 29.4
125 14.4 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.631 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 25617
Ion Ratio Lower Upper
252 100
253 25.7 19.5 29.3
125 14.4 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.373 ng

RT: 22.936 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

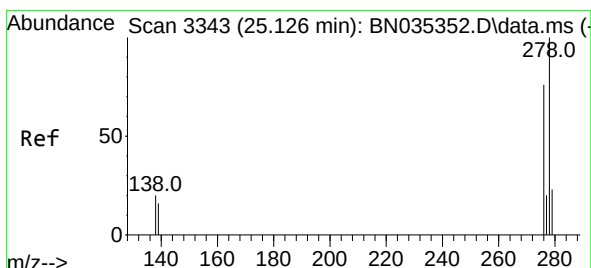
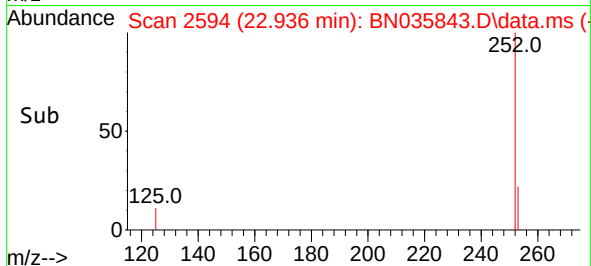
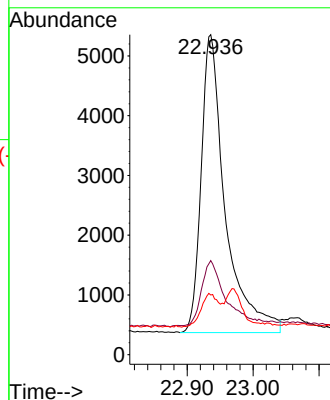
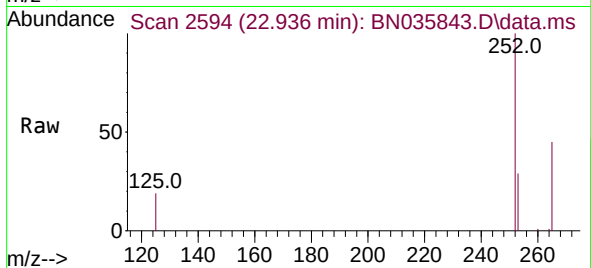
Tgt Ion:252 Resp: 12667

Ion Ratio Lower Upper

252 100

253 29.4 20.2 30.4

125 18.6 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.320 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.021 min

Lab File: BN035843.D

Acq: 25 Dec 2024 05:14

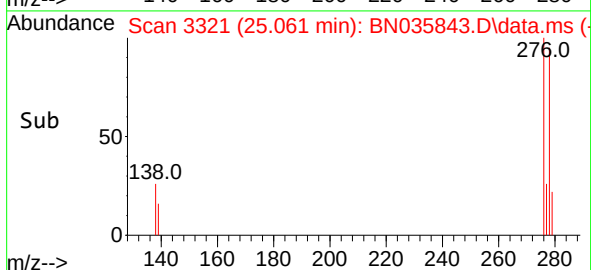
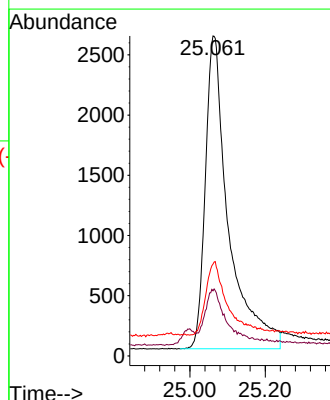
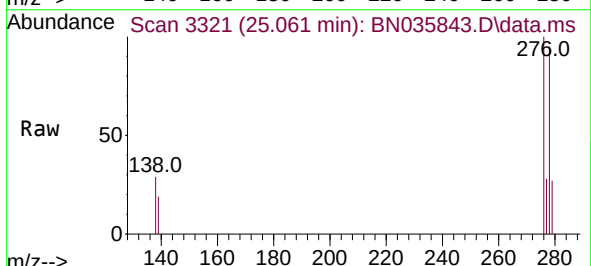
Tgt Ion:278 Resp: 11116

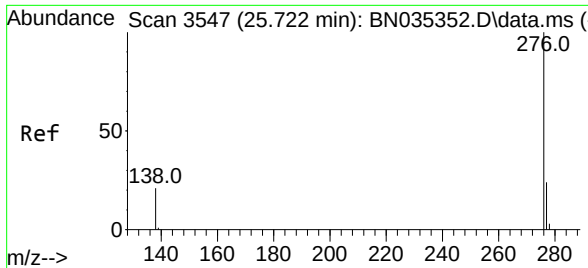
Ion Ratio Lower Upper

278 100

139 20.4 14.2 21.4

279 28.7 20.5 30.7

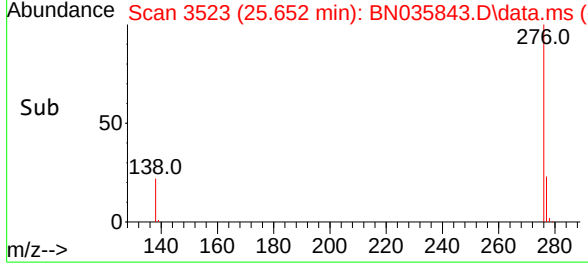
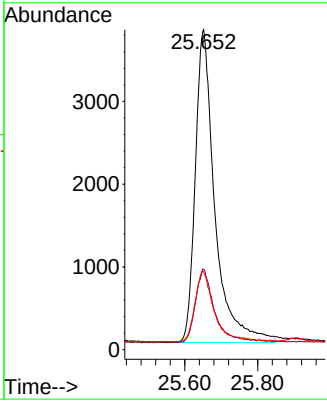
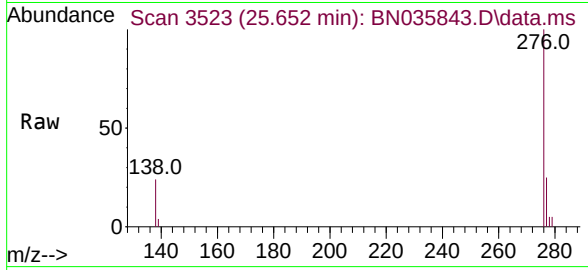




#41
 Benzo(g,h,i)perylene
 Concen: 0.387 ng
 RT: 25.652 min Scan# 31
 Delta R.T. -0.027 min
 Lab File: BN035843.D
 Acq: 25 Dec 2024 05:14

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion:	276	Resp:	14070
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



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)

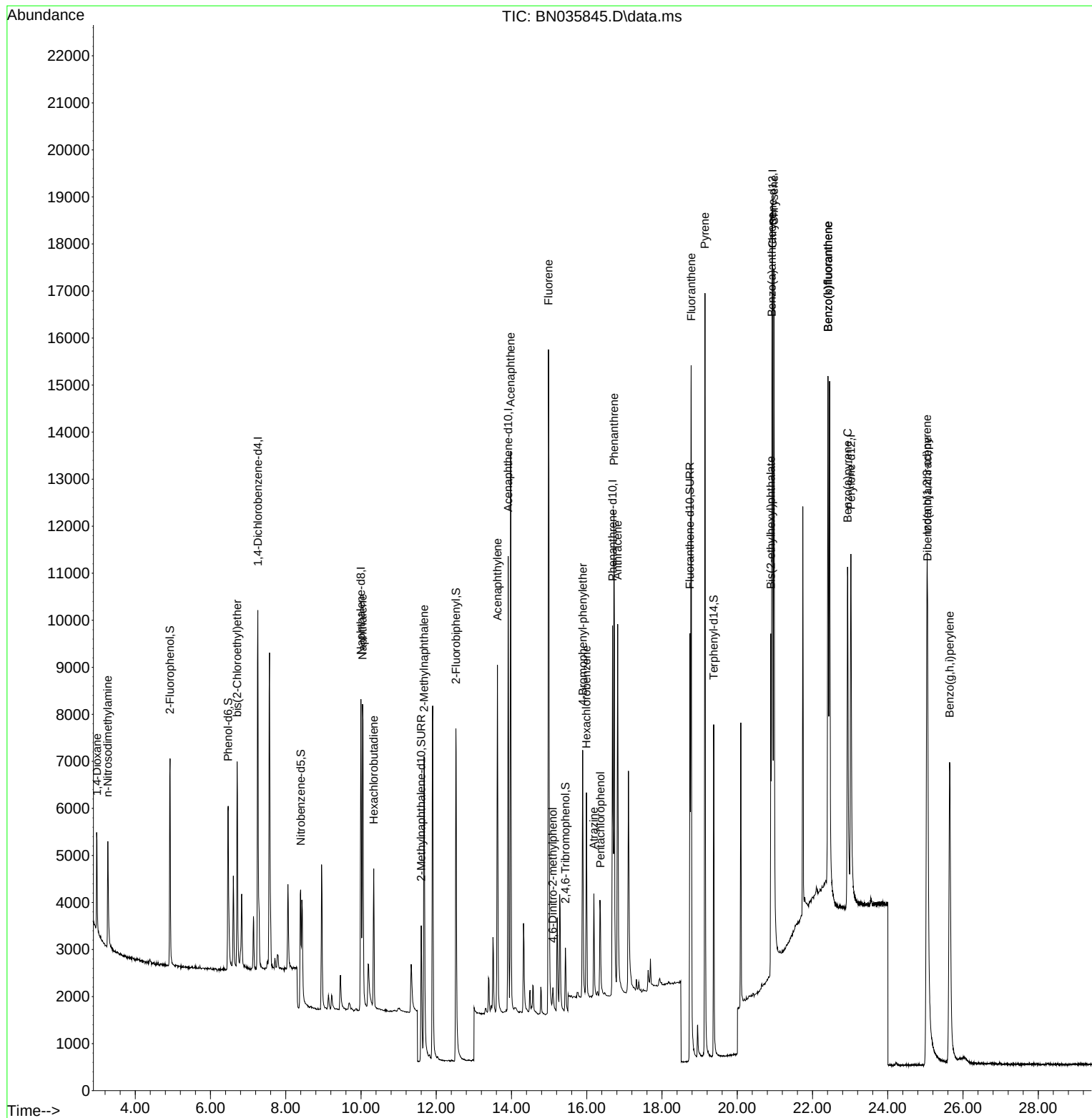
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng	#-0.02
35) Perylene-d12	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

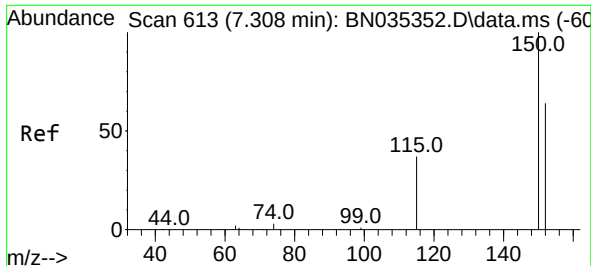
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

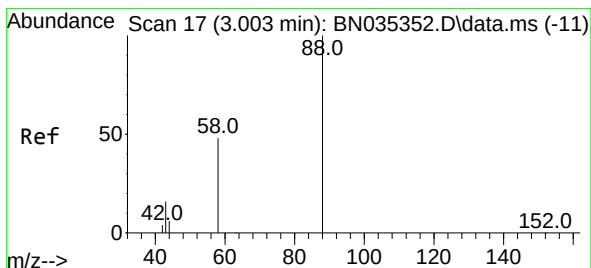
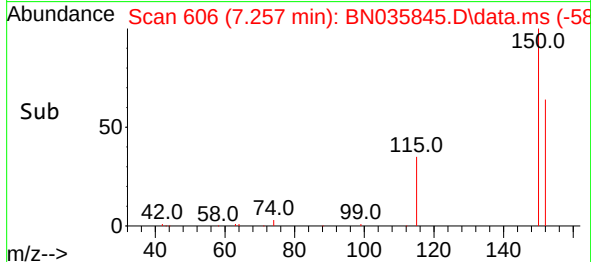
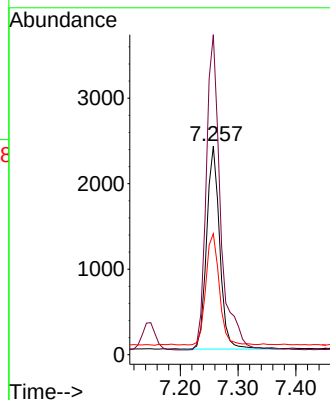
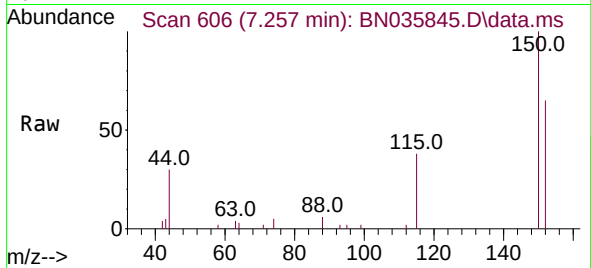




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035845.D
 Acq: 26 Dec 2024 09:58

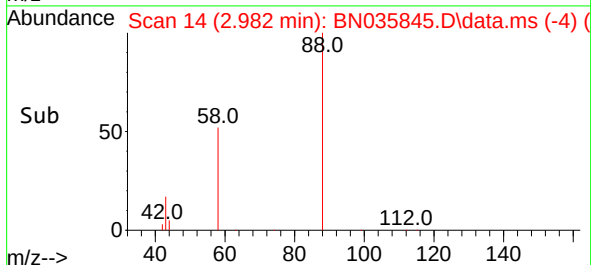
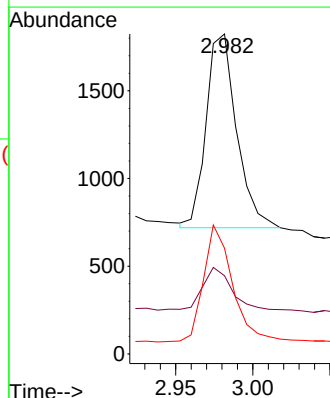
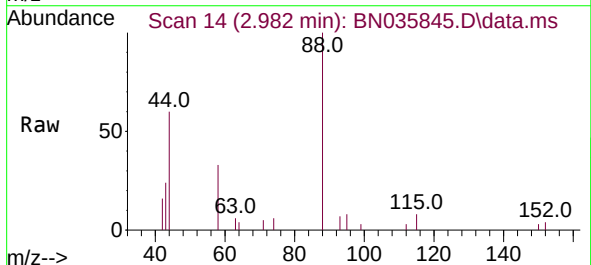
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

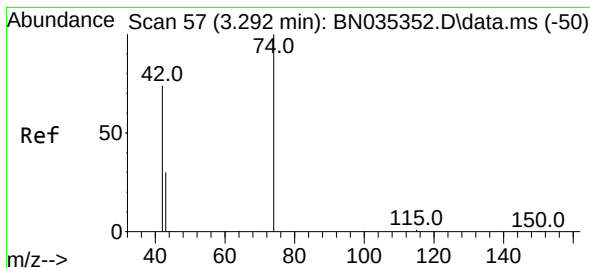
Tgt Ion:152 Resp: 3755
 Ion Ratio Lower Upper
 152 100
 150 153.5 124.0 186.0
 115 58.0 49.6 74.4



#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

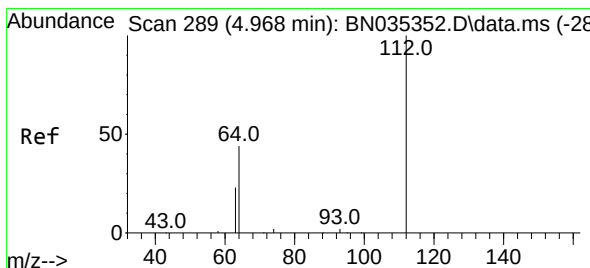
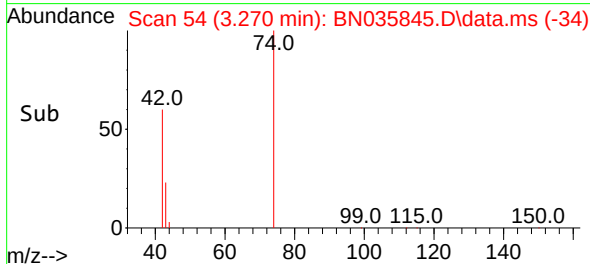
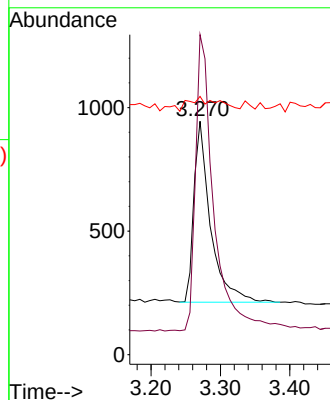
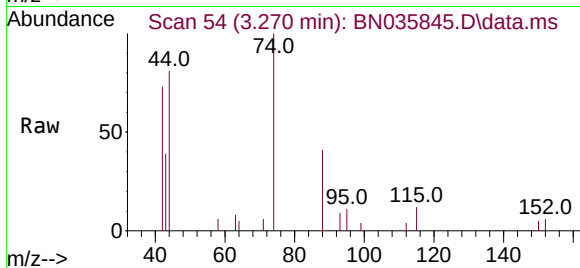
Tgt Ion: 42 Resp: 1223

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

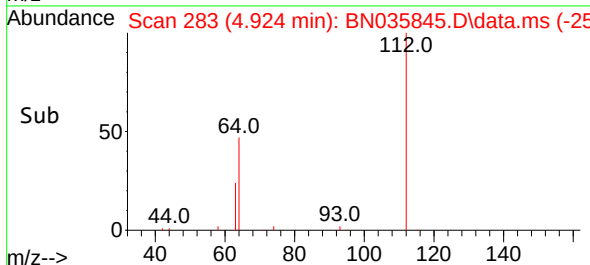
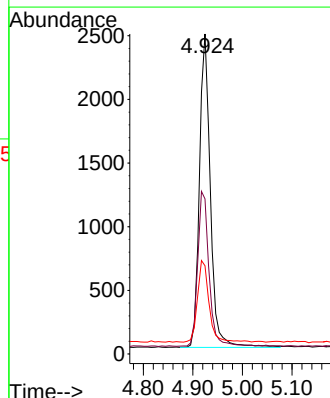
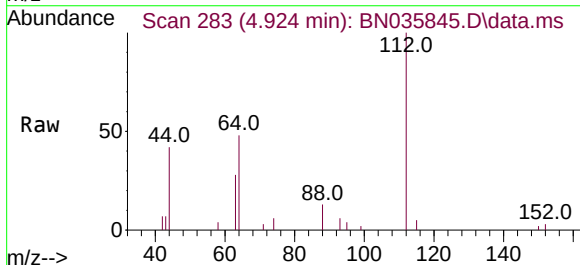
Tgt Ion: 112 Resp: 3777

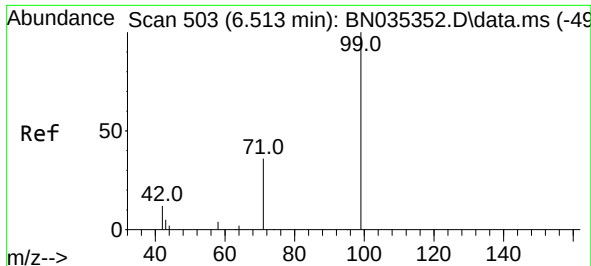
Ion Ratio Lower Upper

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# 497

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

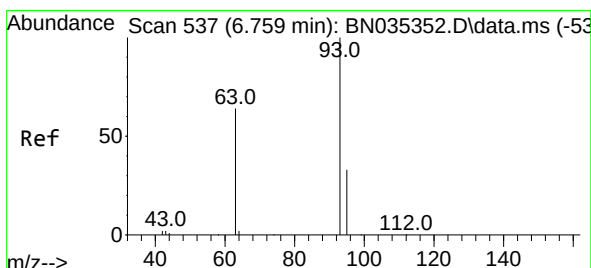
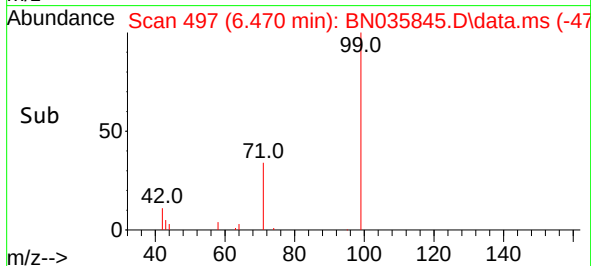
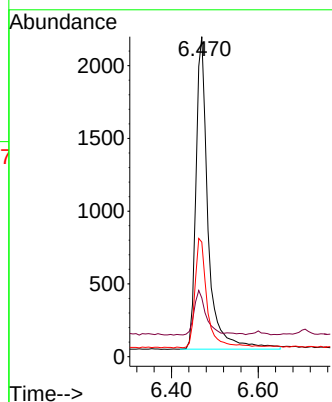
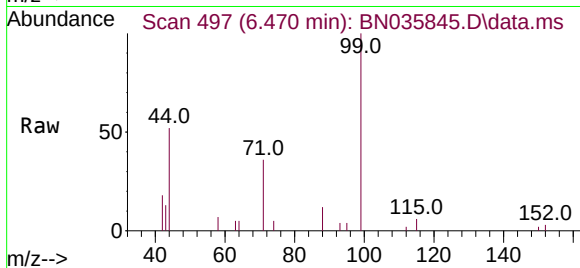
Tgt Ion: 99 Resp: 4175

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

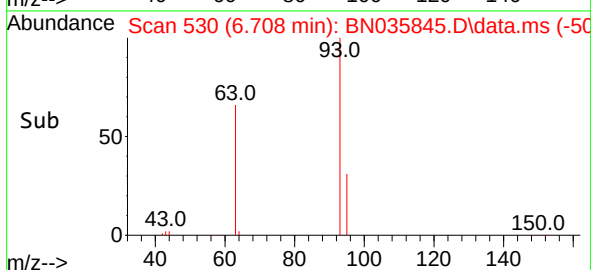
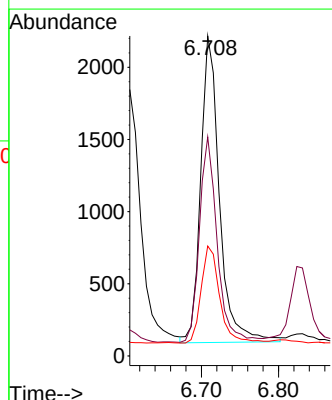
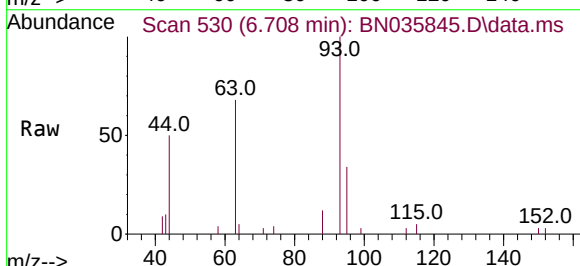
Tgt Ion: 93 Resp: 3599

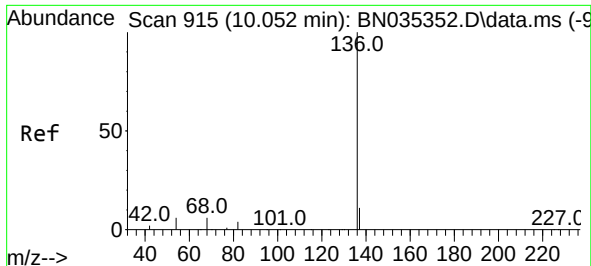
Ion Ratio Lower Upper

93 100

63 63.3 50.4 75.6

95 31.3 25.7 38.5

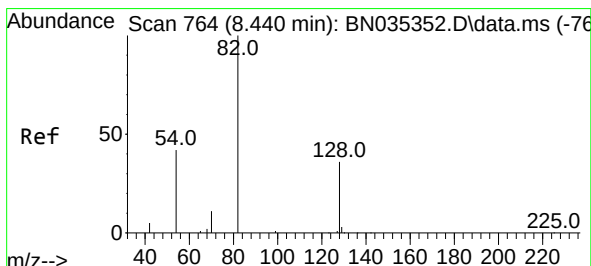
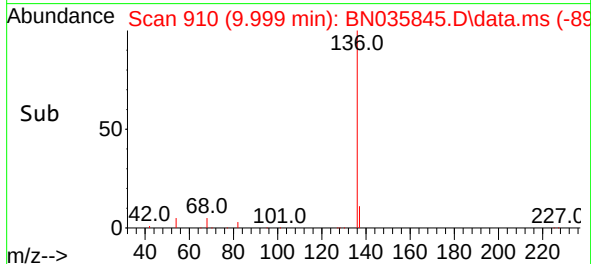
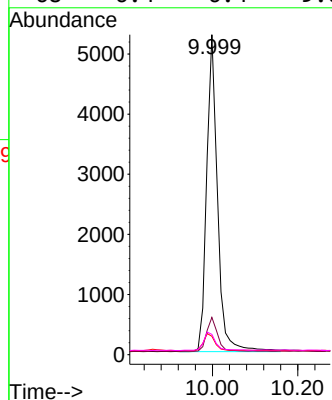
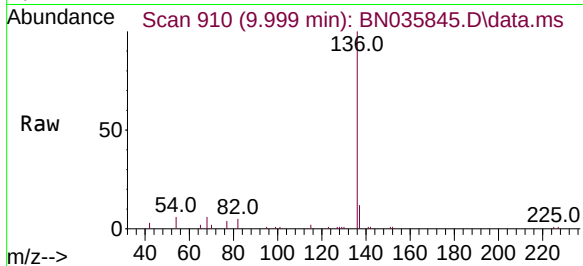




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

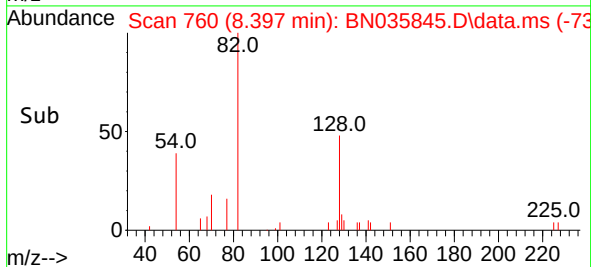
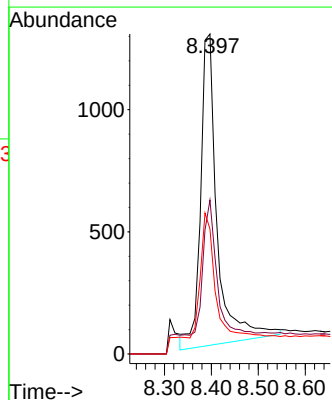
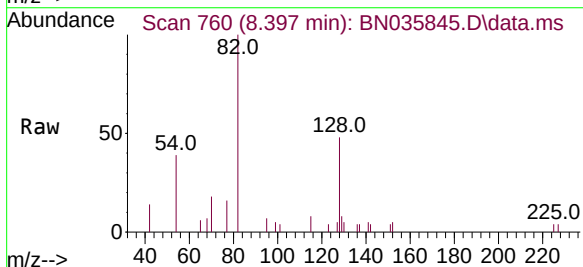
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

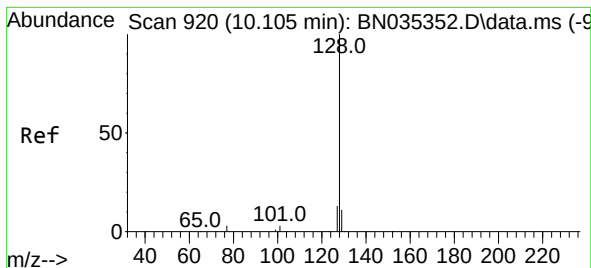
Tgt Ion:136	Resp:	9322
Ion Ratio	Lower	Upper
136	100	
137	11.6	10.2 15.2
54	5.8	6.1 9.1#
68	6.4	6.4 9.6#



#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# 914

Delta R.T. -0.021 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

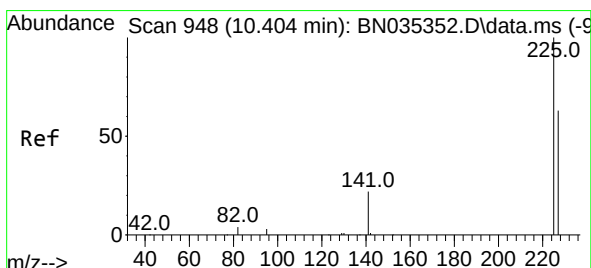
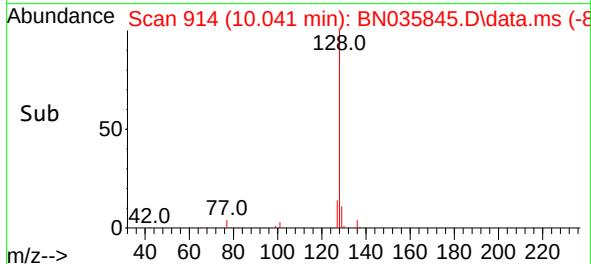
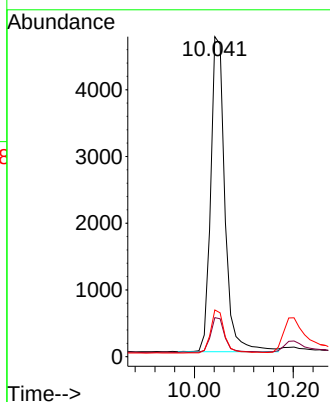
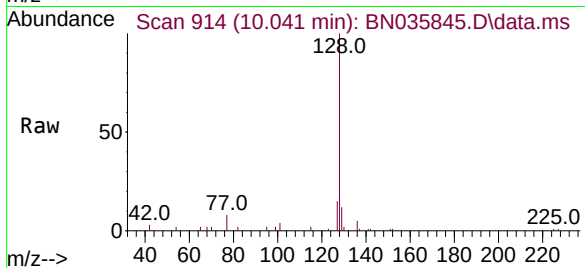
Tgt Ion:128 Resp: 9440

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

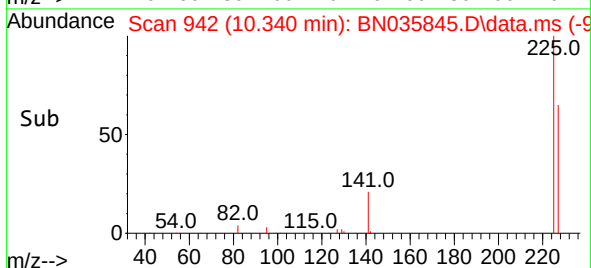
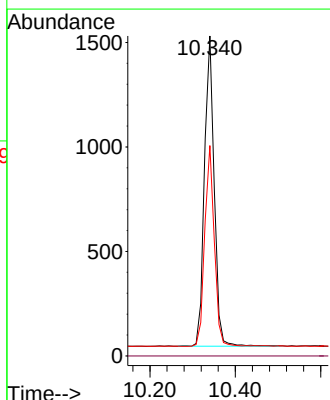
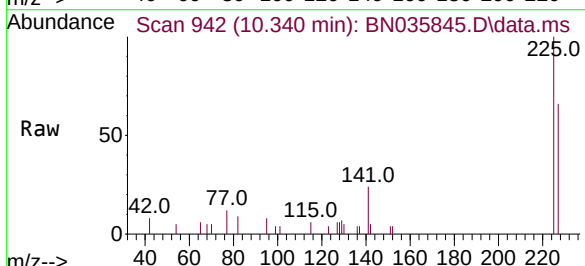
Tgt Ion:225 Resp: 2352

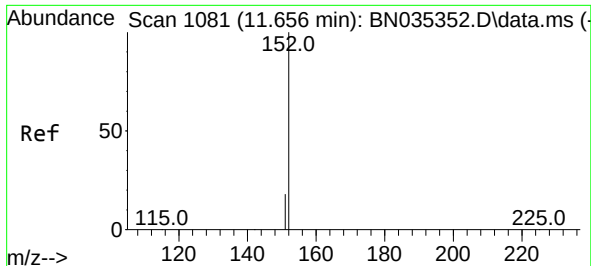
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.3 76.9

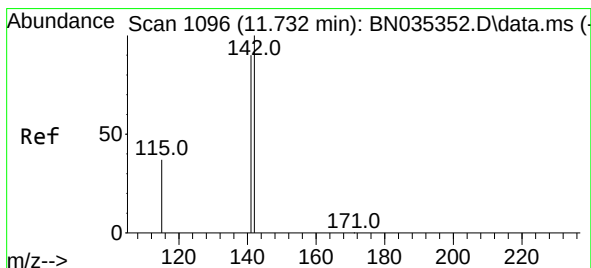
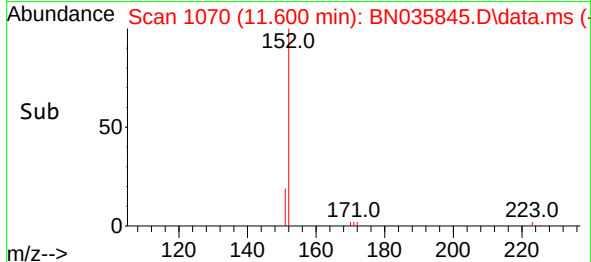
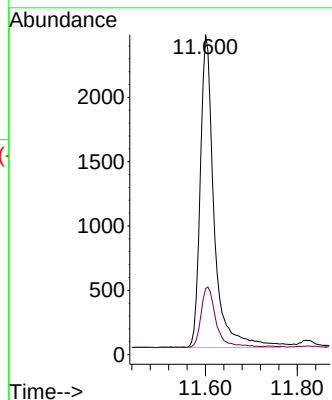
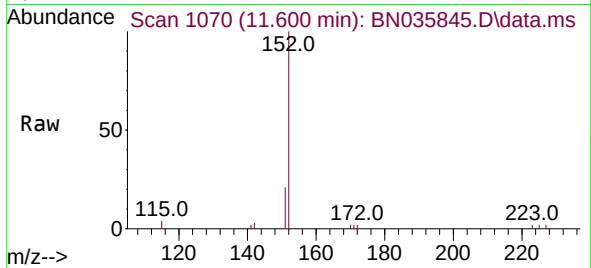




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1080
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

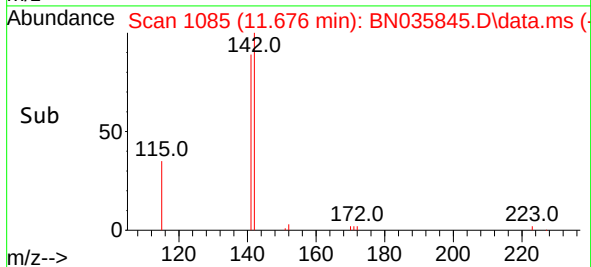
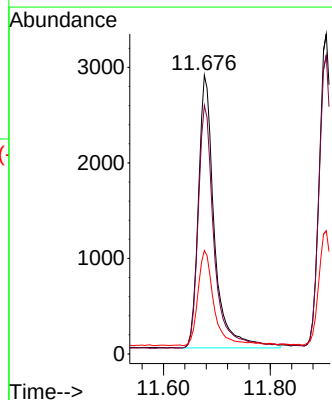
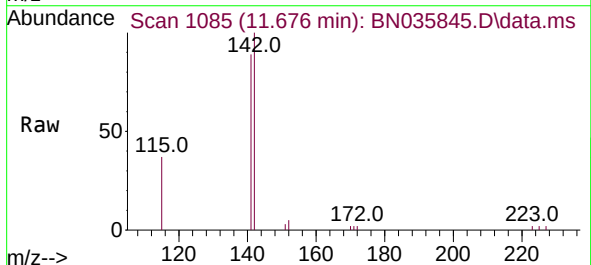
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

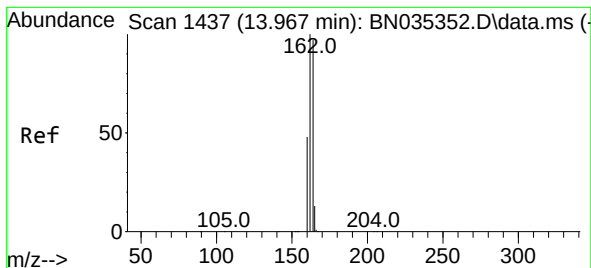
Tgt Ion:152 Resp: 5080
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#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

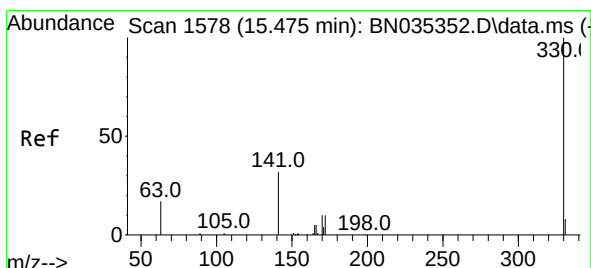
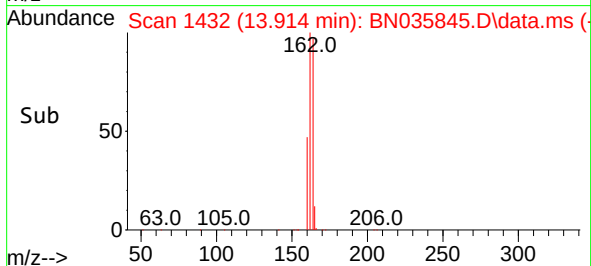
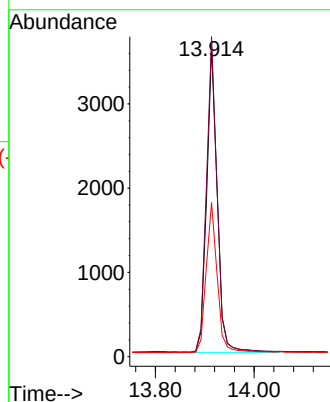
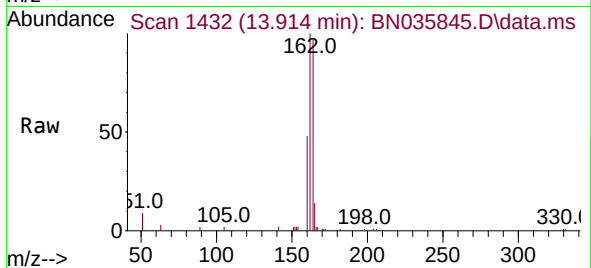
Tgt Ion:164 Resp: 5387

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

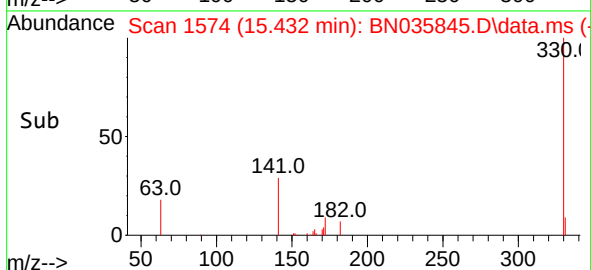
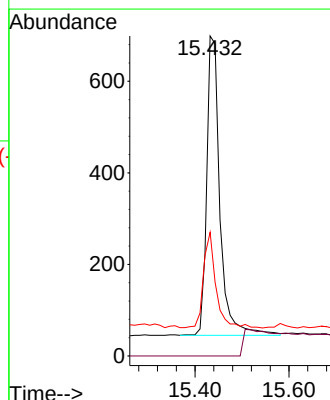
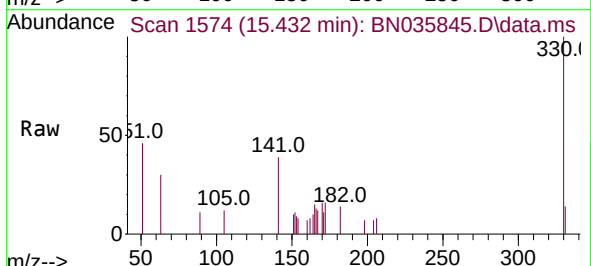
Tgt Ion:330 Resp: 1338

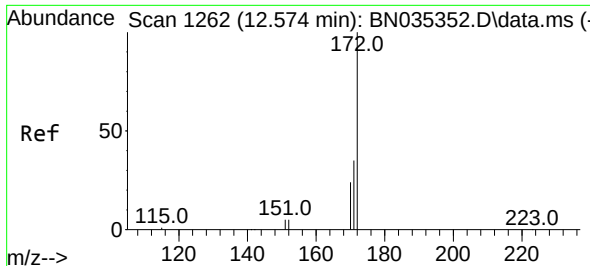
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.7 26.6 40.0

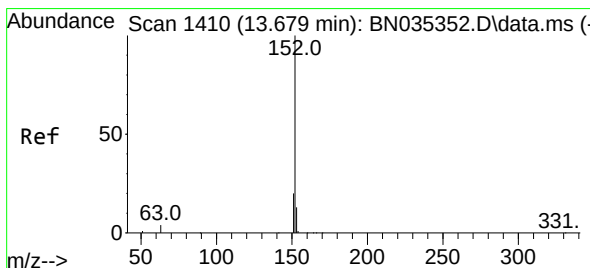
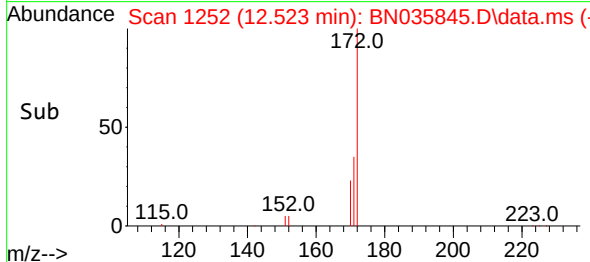
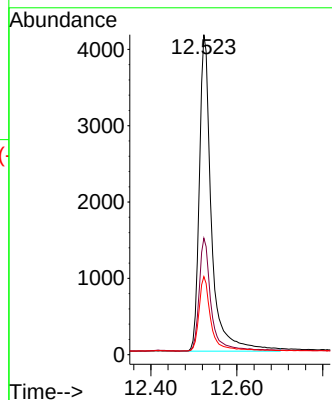
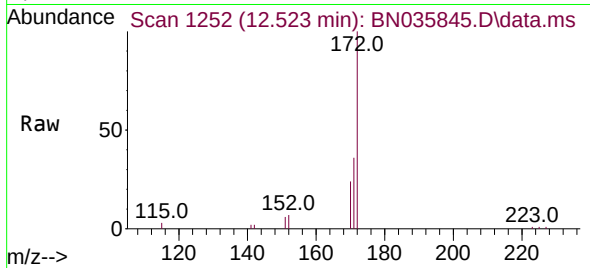




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

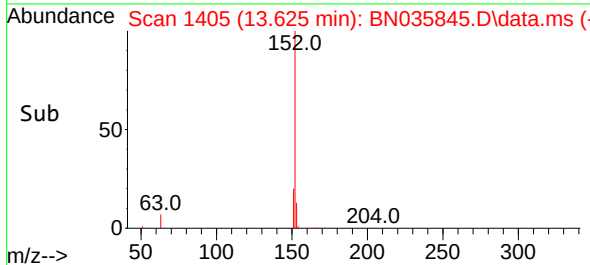
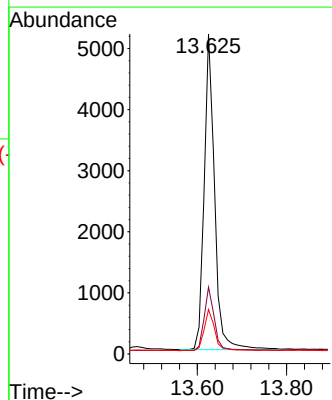
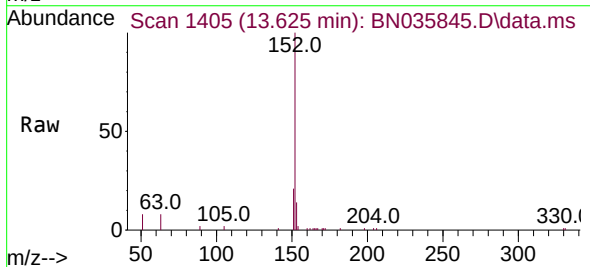
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

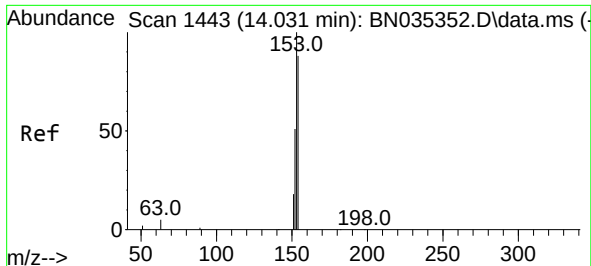
Tgt Ion:172	Resp:	8104
Ion Ratio	Lower	Upper
172	100	
171	36.4	29.0 43.4
170	24.4	19.8 29.8



#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

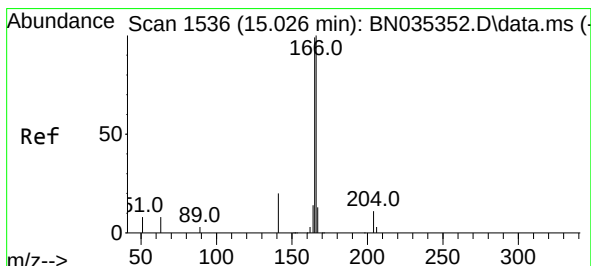
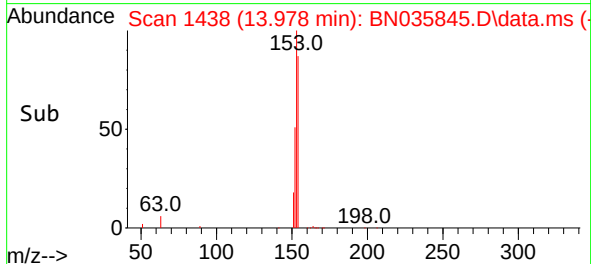
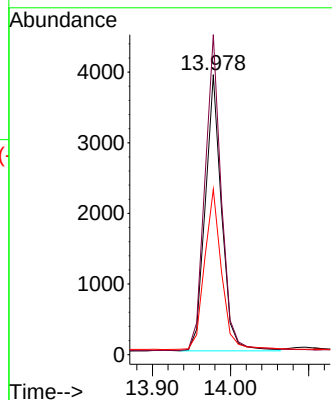
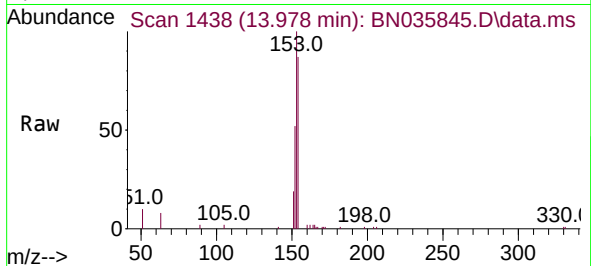




#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

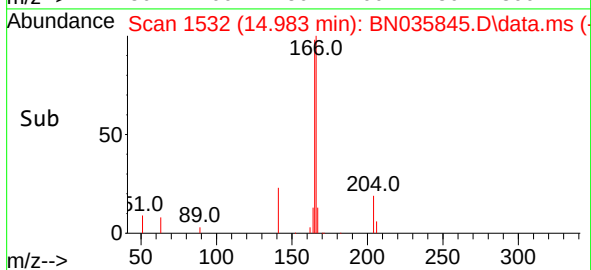
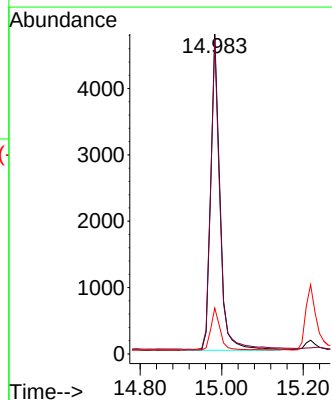
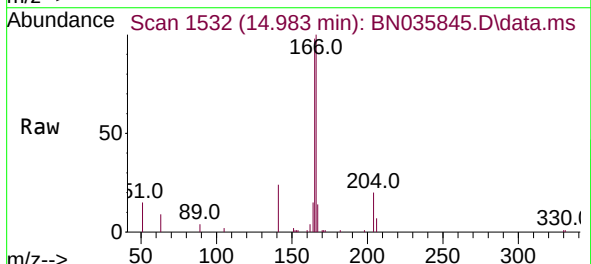
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

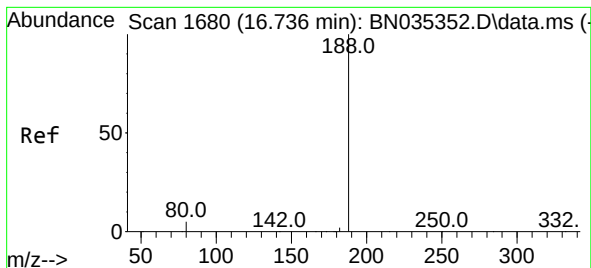
Tgt Ion:154 Resp: 5695
Ion Ratio Lower Upper
154 100
153 116.1 92.6 139.0
152 60.4 49.0 73.6



#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

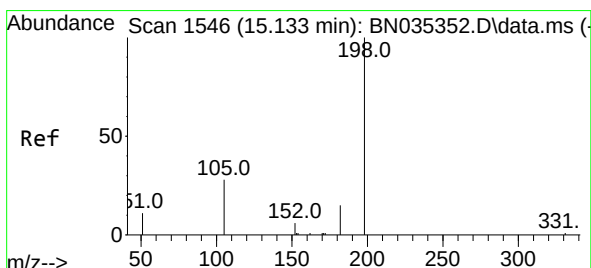
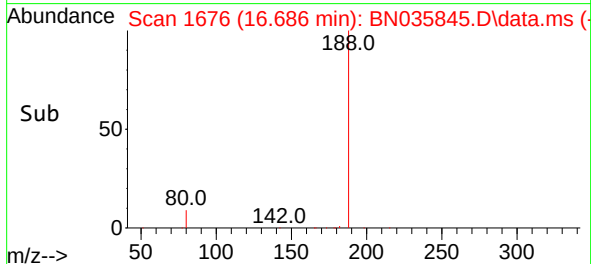
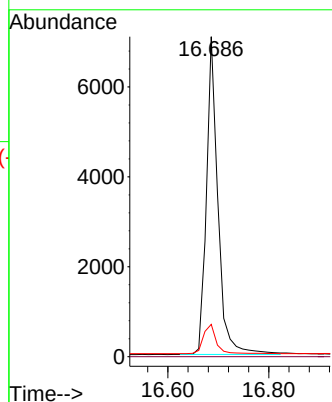
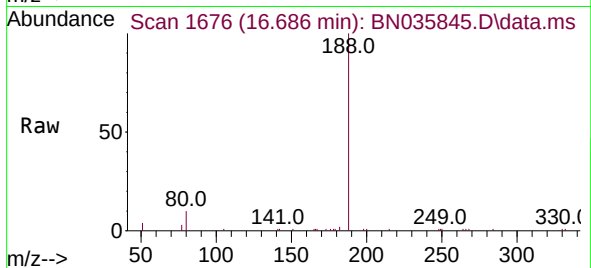
Tgt Ion:188 Resp: 11262

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

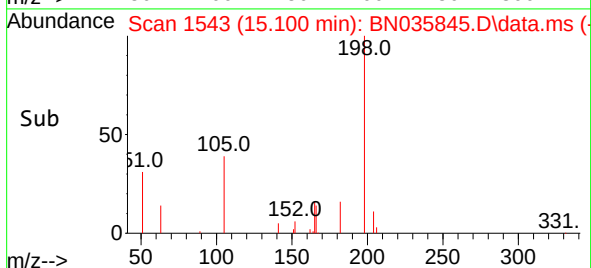
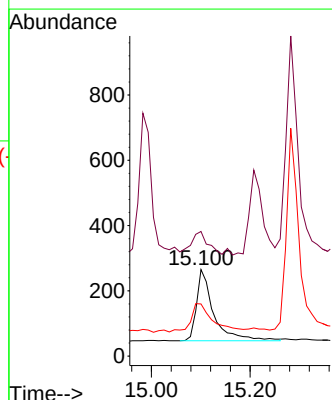
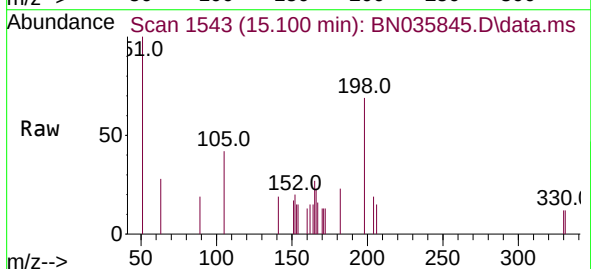
Tgt Ion:198 Resp: 526

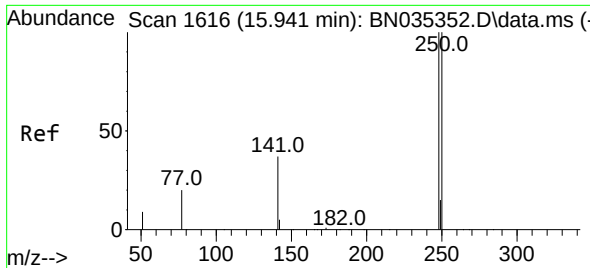
Ion Ratio Lower Upper

198 100

51 144.2 46.5 69.7#

105 60.4 45.3 67.9

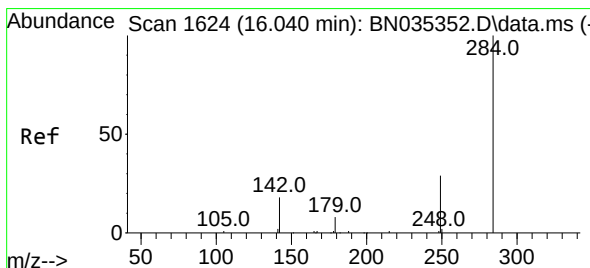
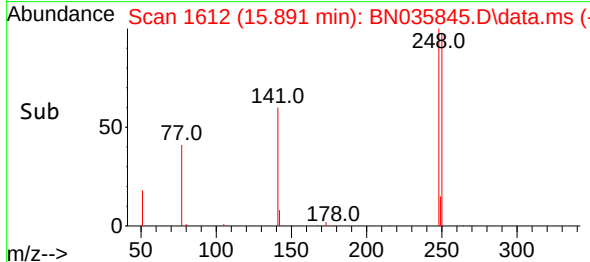
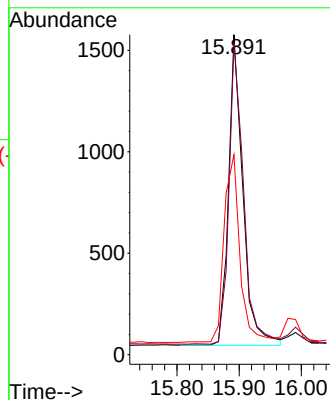
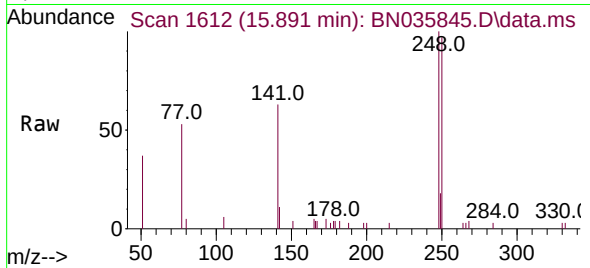




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

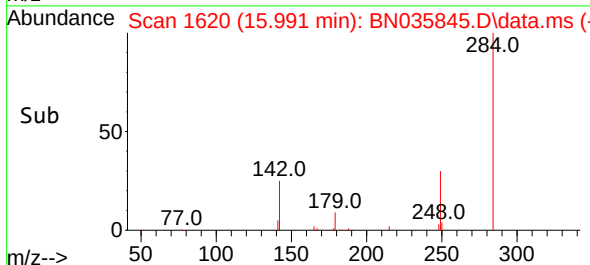
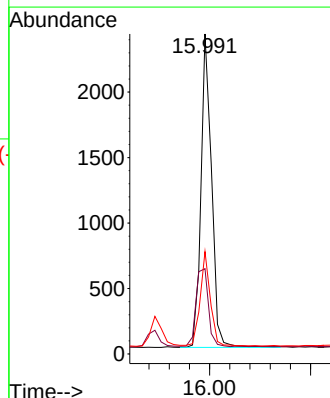
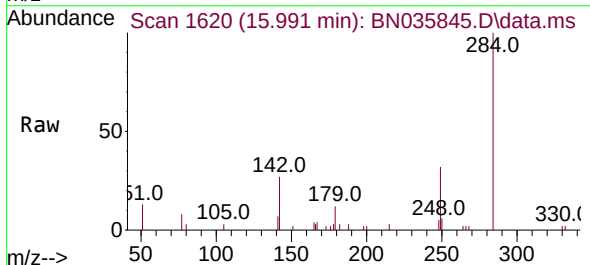
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

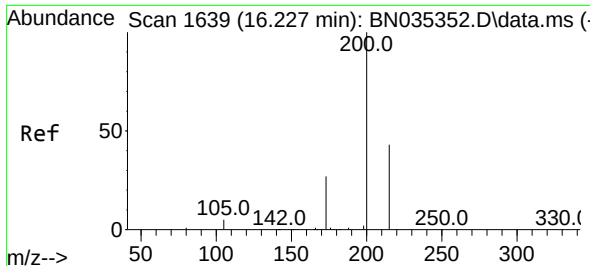
Tgt Ion:248 Resp: 2443
Ion Ratio Lower Upper
248 100
250 97.3 80.6 120.8
141 62.5 31.5 47.3#



#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

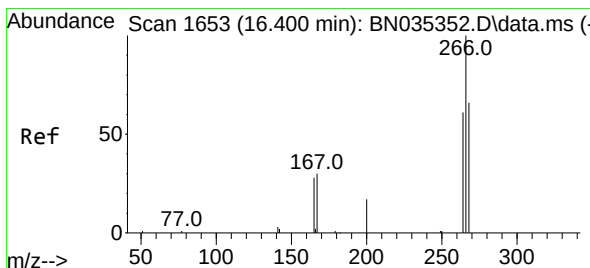
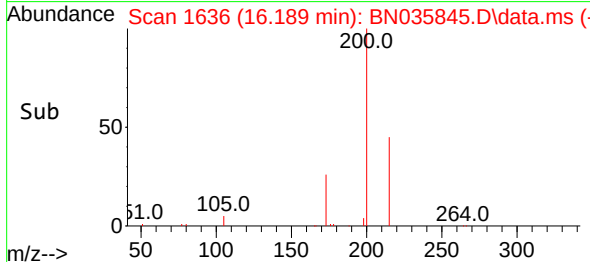
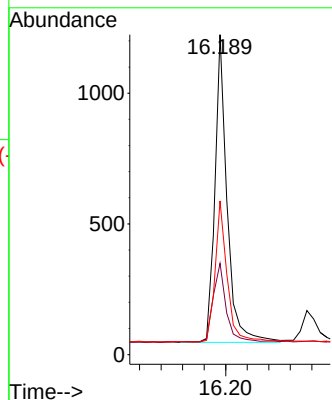
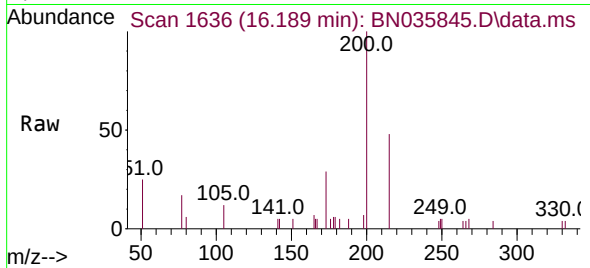




#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

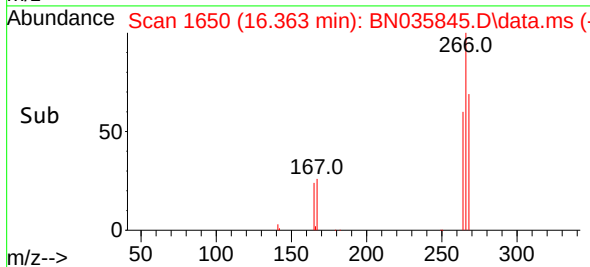
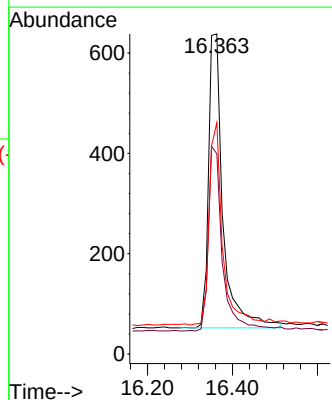
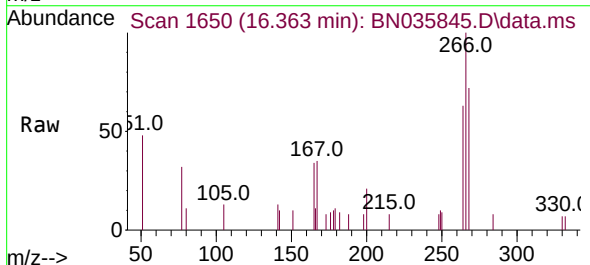
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

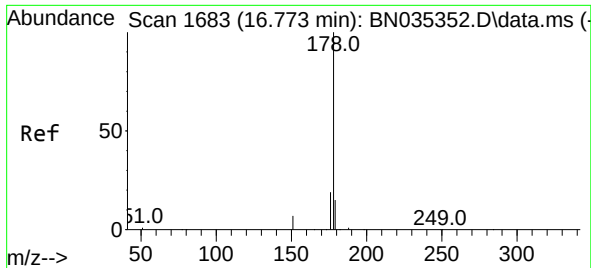
Tgt Ion:200 Resp: 1843
Ion Ratio Lower Upper
200 100
173 28.5 24.1 36.1
215 48.0 36.9 55.3



#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

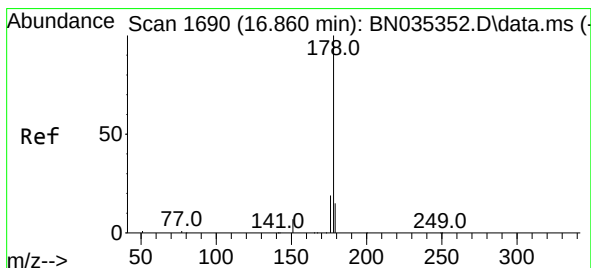
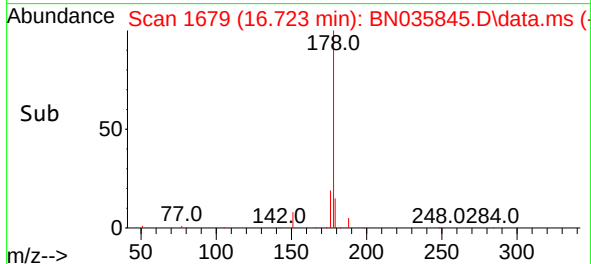
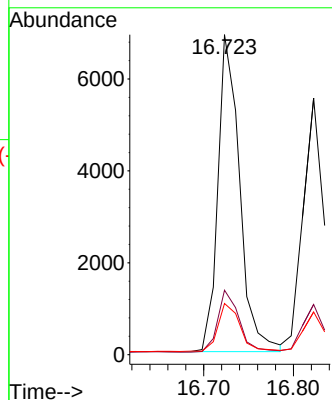
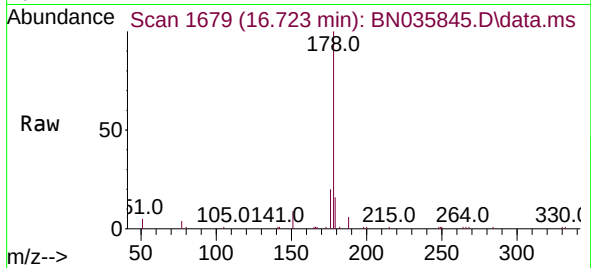




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1682
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

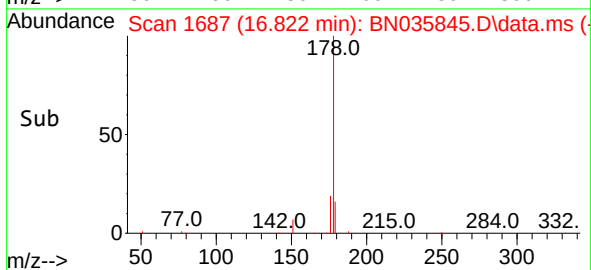
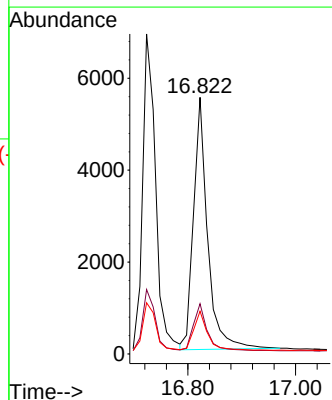
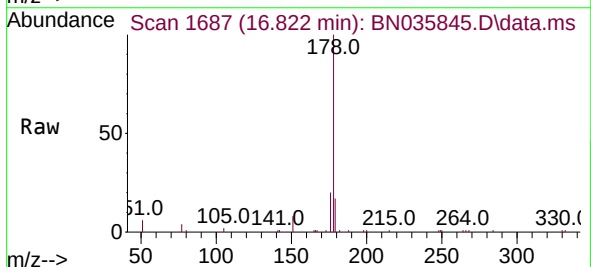
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

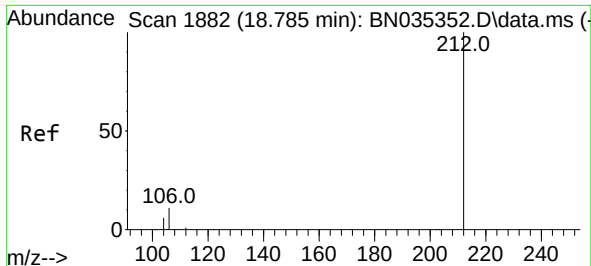
Tgt Ion:178 Resp: 11602
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.7 12.3 18.5



#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

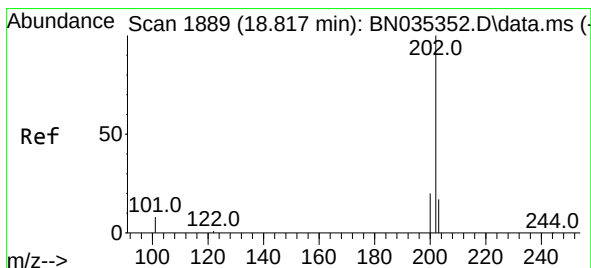
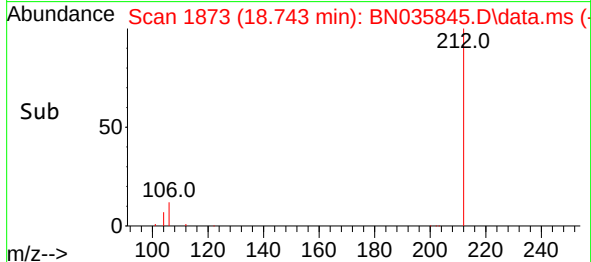
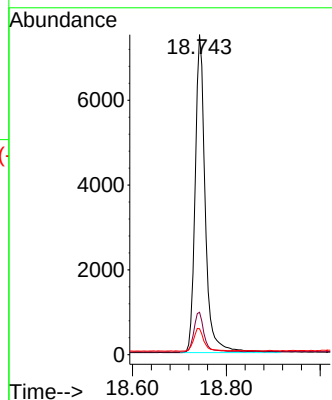
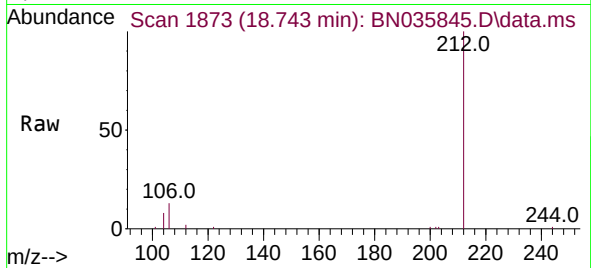




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1873
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

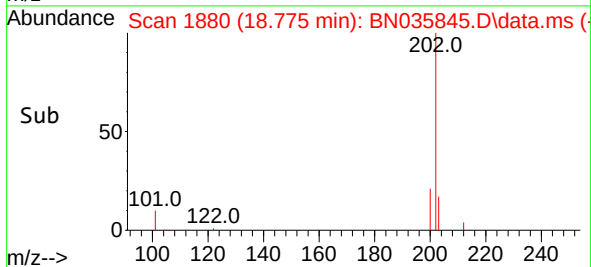
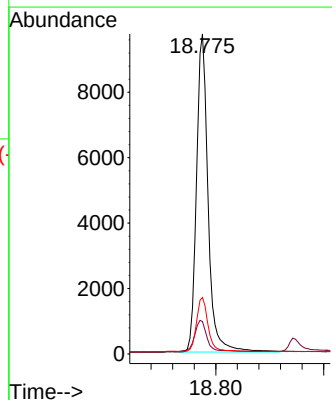
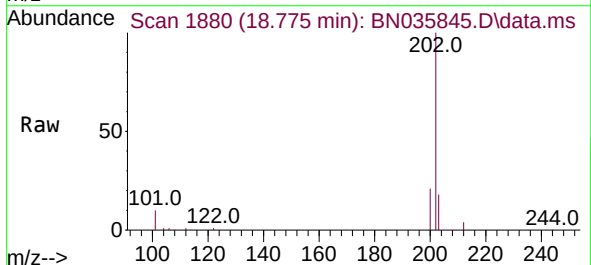
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

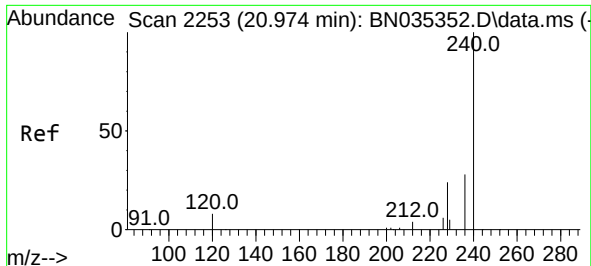
Tgt Ion:212 Resp: 11161
Ion Ratio Lower Upper
212 100
106 12.7 9.2 13.8
104 7.4 5.3 7.9



#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# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

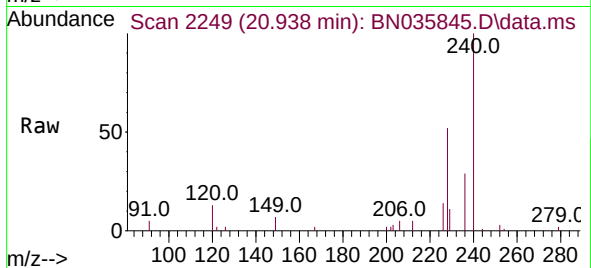
Acq: 26 Dec 2024 09:58

Instrument :

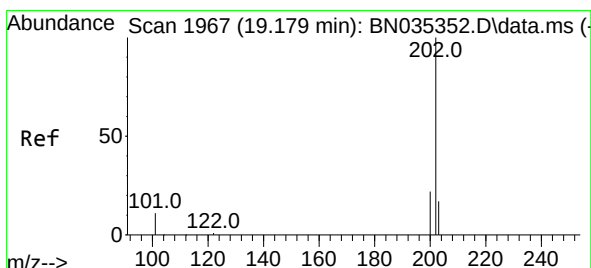
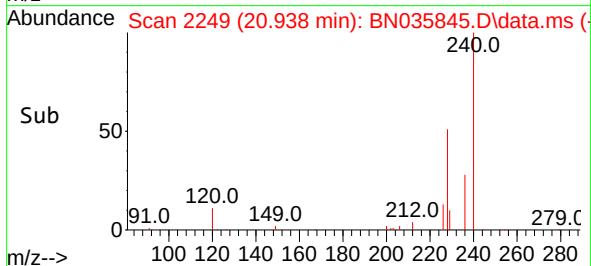
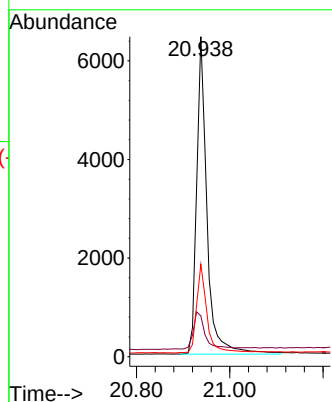
BNA_N

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

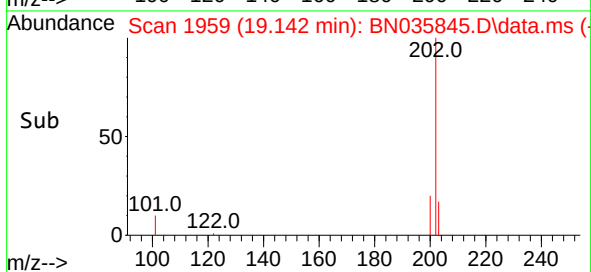
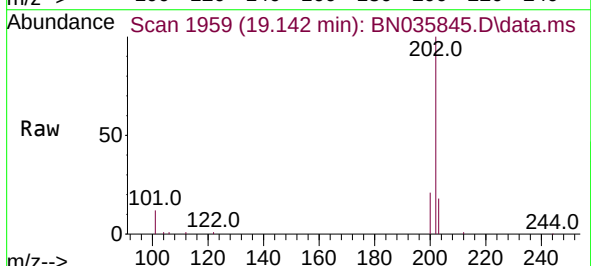
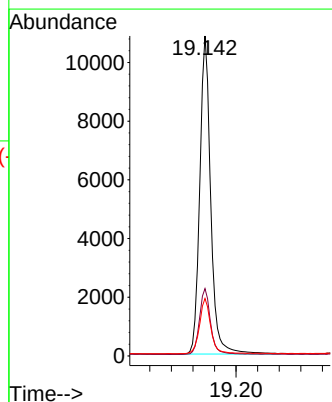
RT: 19.142 min Scan# 1959

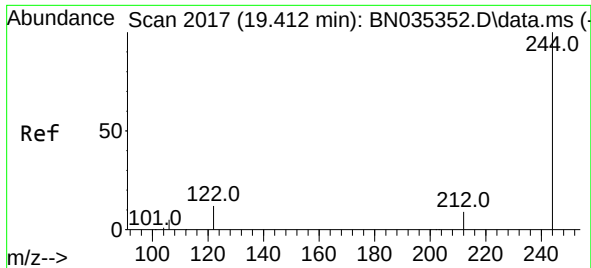
Delta R.T. -0.019 min

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

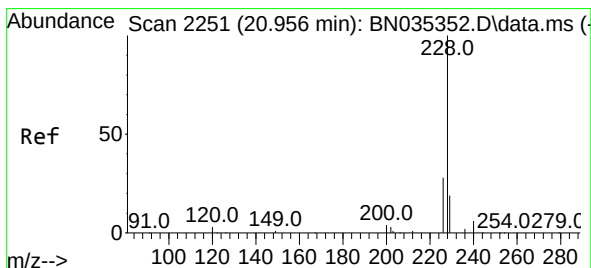
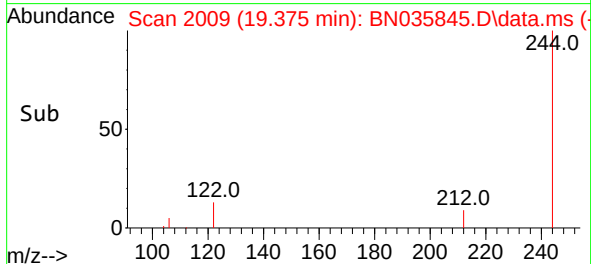
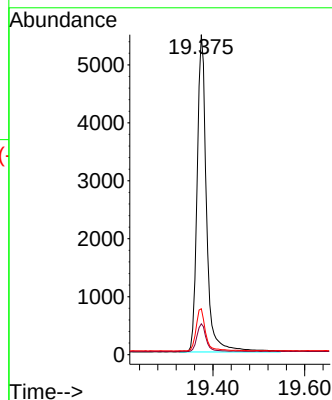
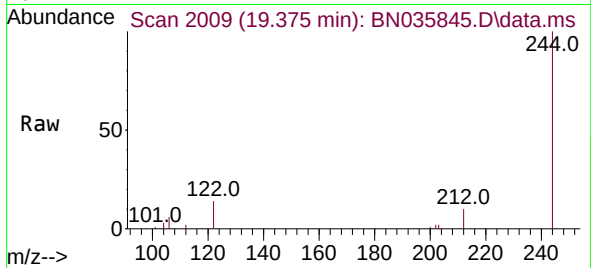




#31
 Terphenyl-d14
 Concen: 0.397 ng
 RT: 19.375 min Scan# 2017
 Delta R.T. -0.014 min
 Lab File: BN035845.D
 Acq: 26 Dec 2024 09:58

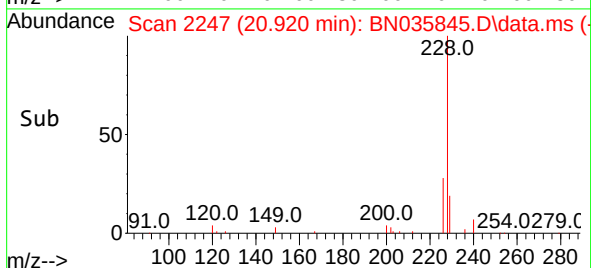
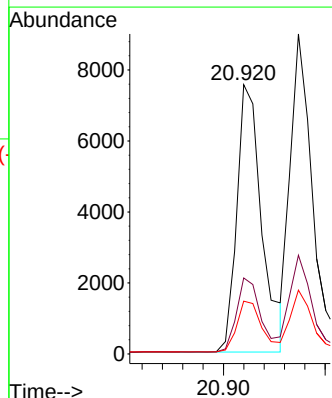
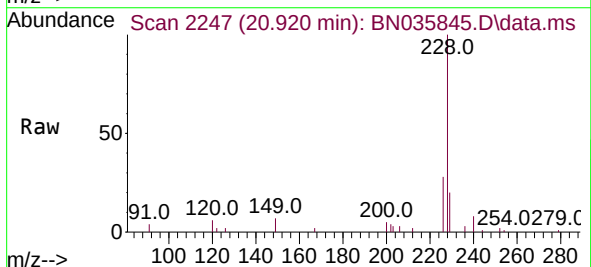
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

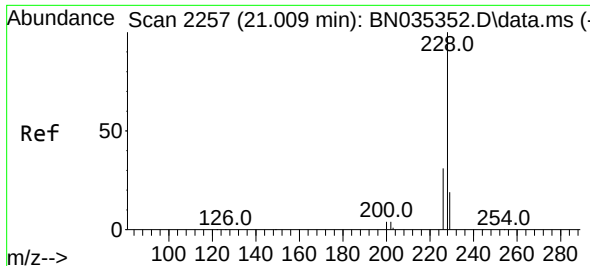
Tgt Ion:244 Resp: 7783
 Ion Ratio Lower Upper
 244 100
 212 9.7 8.1 12.1
 122 14.4 10.3 15.5



#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# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

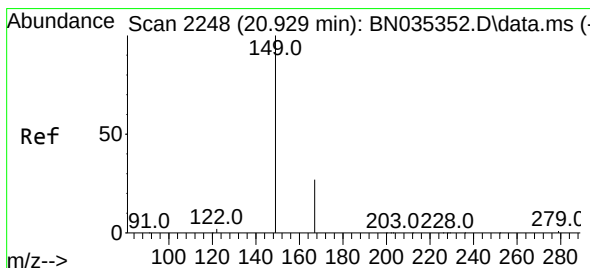
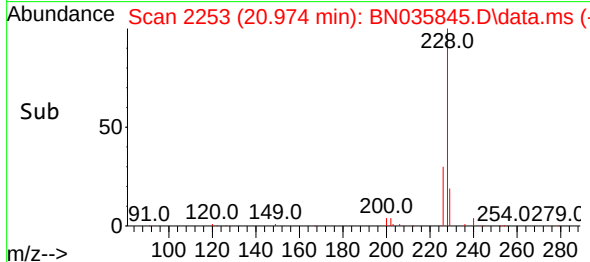
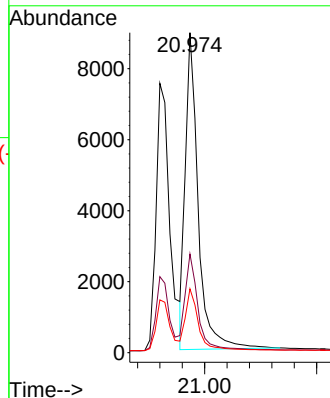
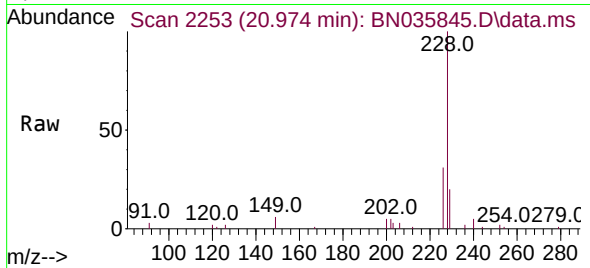
Tgt Ion:228 Resp: 14214

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

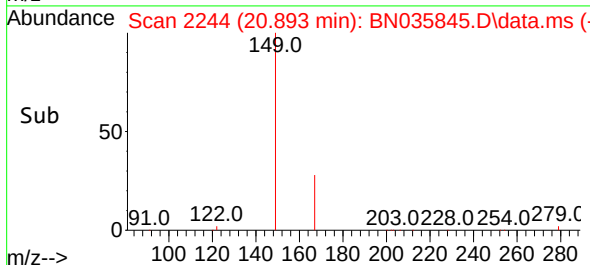
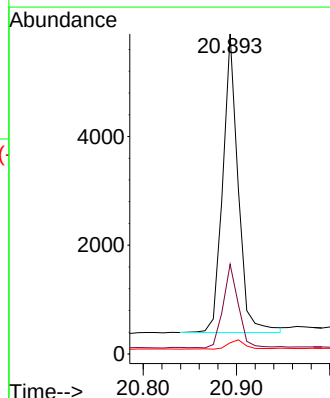
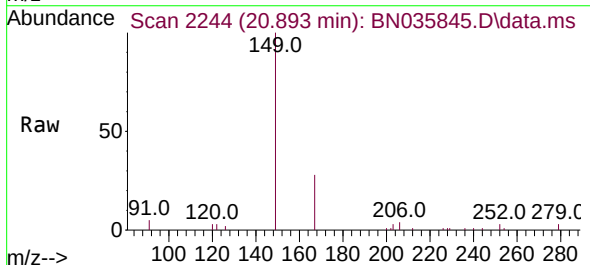
Tgt Ion:149 Resp: 6282

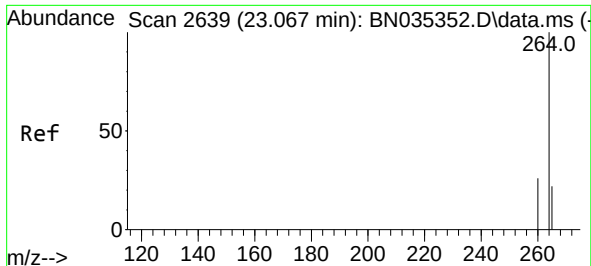
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

279 3.4 2.7 4.1

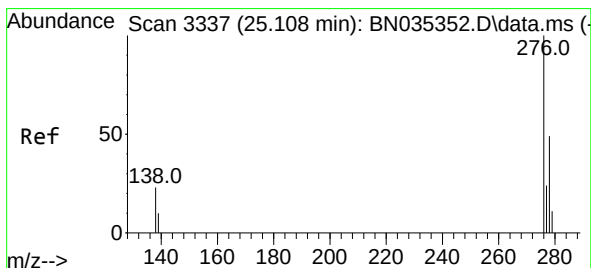
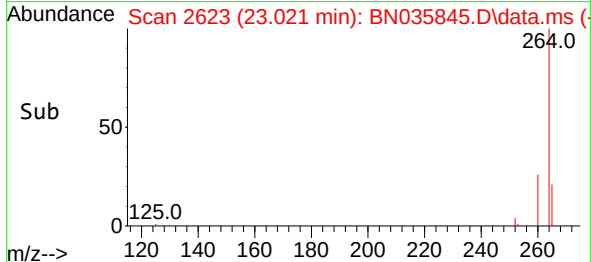
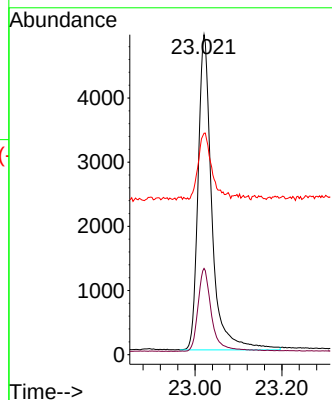
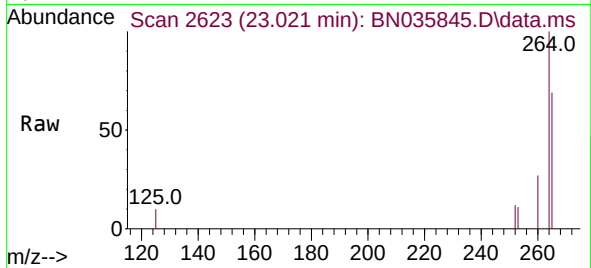




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.021 min Scan# 2623
 Delta R.T. -0.021 min
 Lab File: BN035845.D
 Acq: 26 Dec 2024 09:58

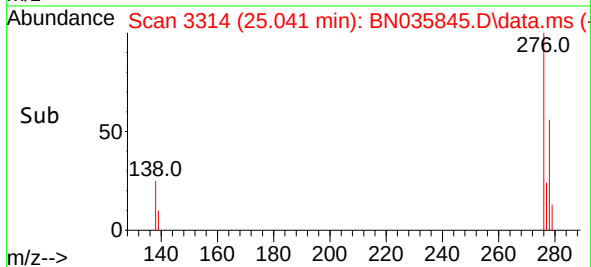
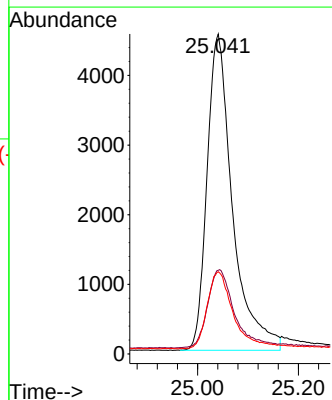
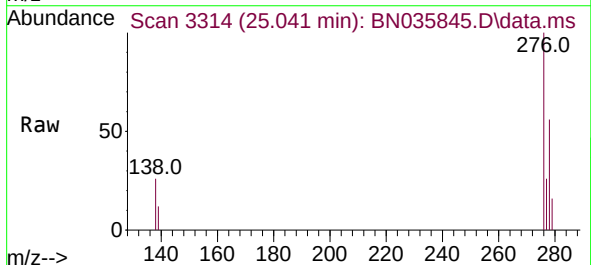
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

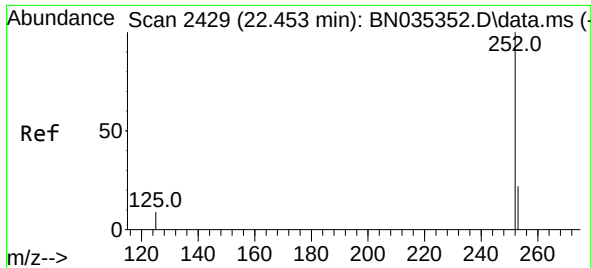
Tgt Ion:264 Resp: 10817
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.4 32.2
 265 69.2 40.2 60.4#



#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

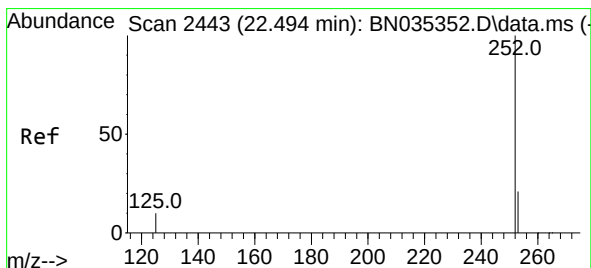
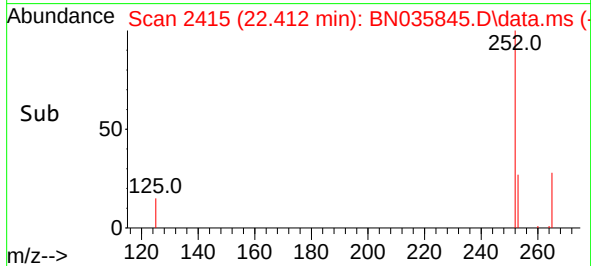
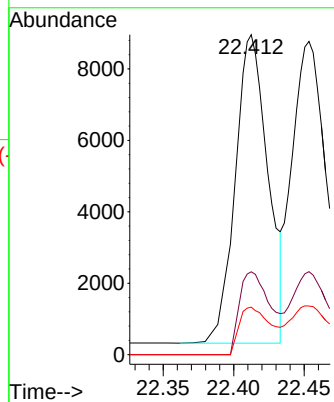
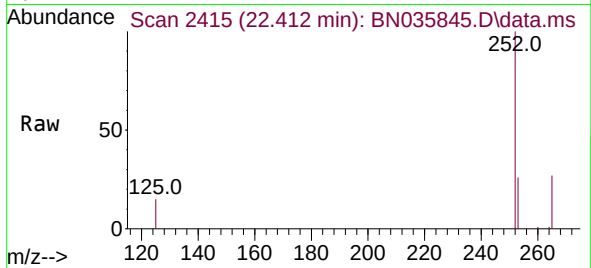




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

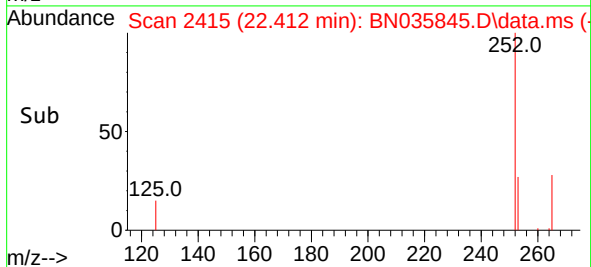
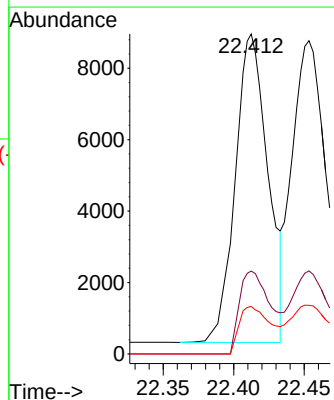
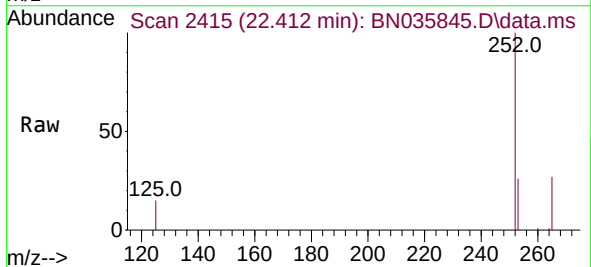
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

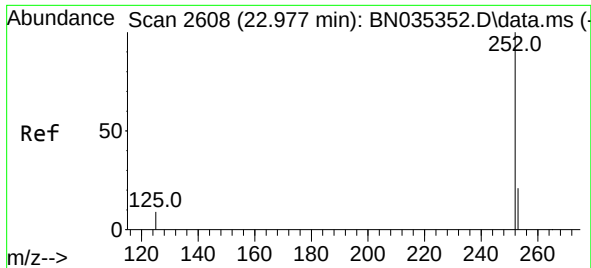
Tgt Ion:252 Resp: 19565
Ion Ratio Lower Upper
252 100
253 25.9 19.6 29.4
125 14.9 9.6 14.4#



#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

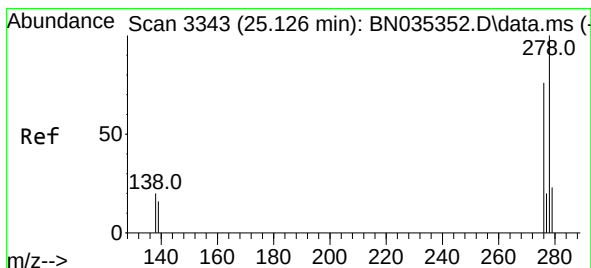
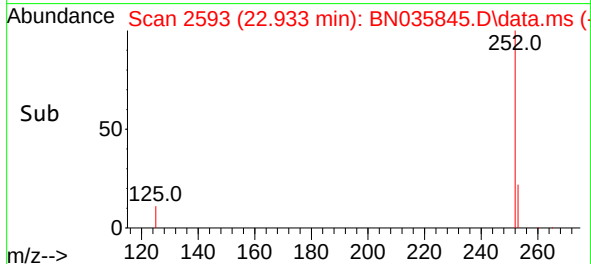
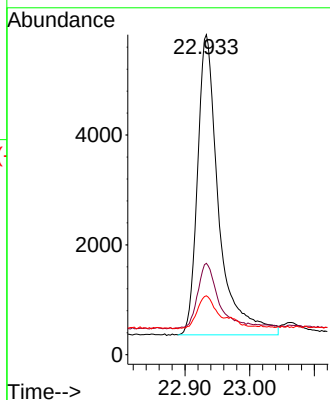
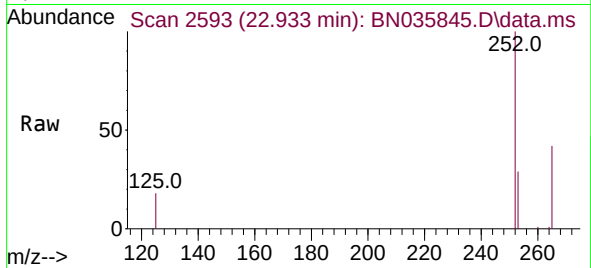




#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

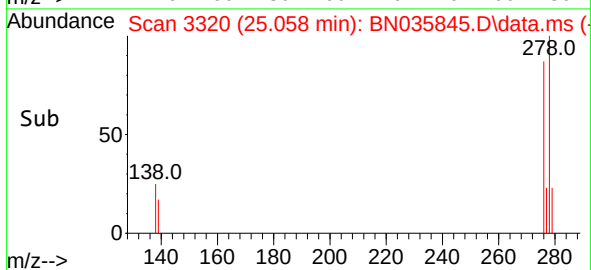
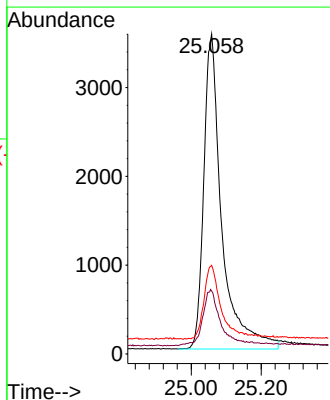
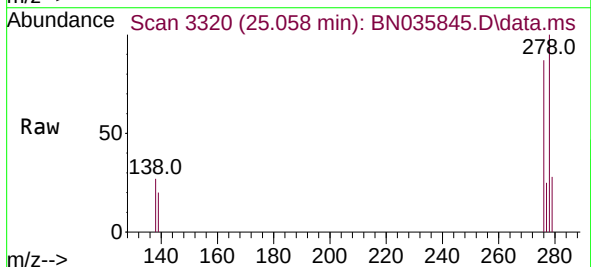
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

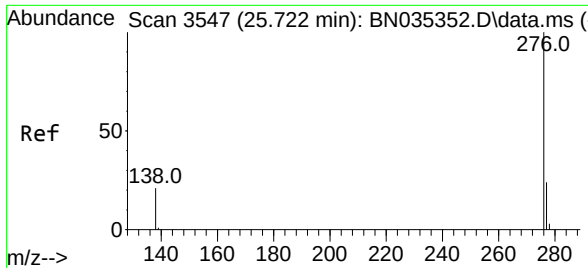
Tgt Ion:252 Resp: 12458
Ion Ratio Lower Upper
252 100
253 28.6 20.2 30.4
125 18.4 10.9 16.3#



#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

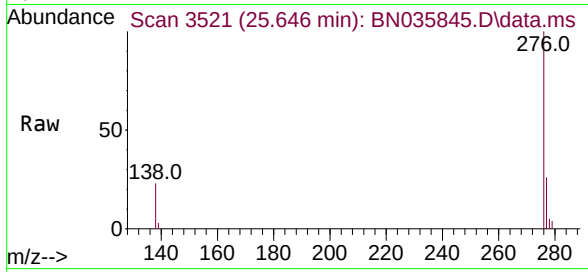
Tgt Ion:278 Resp: 12678
Ion Ratio Lower Upper
278 100
139 19.7 14.2 21.4
279 27.7 20.5 30.7



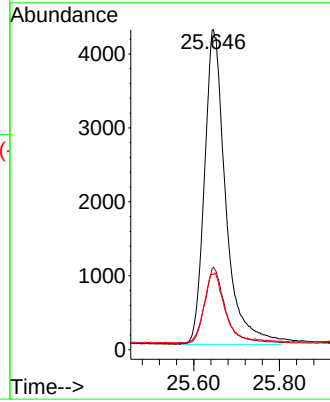
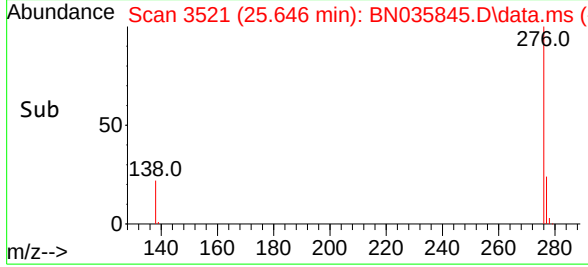


#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 31
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035847.D
 Acq On : 26 Dec 2024 11:20
 Operator : RC/JU
 Sample : P5376-15
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT162S1-20241219

Quant Time: Dec 27 00:40:32 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)

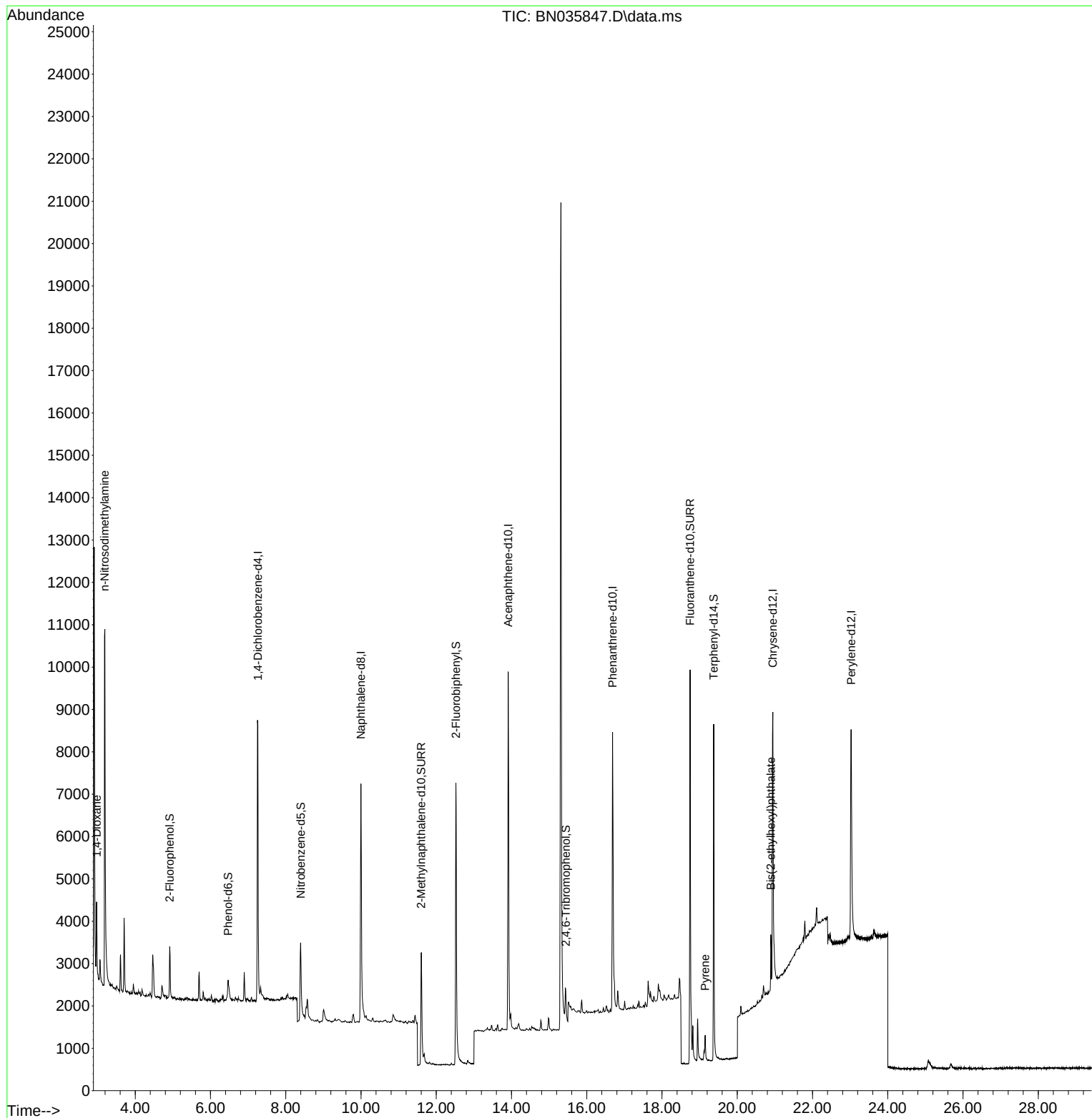
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3703	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8876	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5154	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10596	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8138	0.400	ng	0.00
35) Perylene-d12	23.026	264	8007	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.917	112	1078	0.116	ng	-0.02
5) Phenol-d6	6.470	99	611	0.055	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3163	0.583	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	4895	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	808	0.221	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	7648	0.393	ng	-0.02
27) Fluoranthene-d10	18.747	212	11741	0.391	ng	-0.01
31) Terphenyl-d14	19.375	244	8616	0.537	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1214	0.343	ng	98
3) n-Nitrosodimethylamine	3.184	42	1981	0.672	ng	# 1
30) Pyrene	19.147	202	618	0.021	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	1284	0.114	ng	# 96

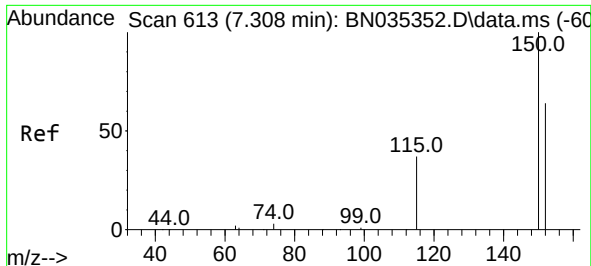
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

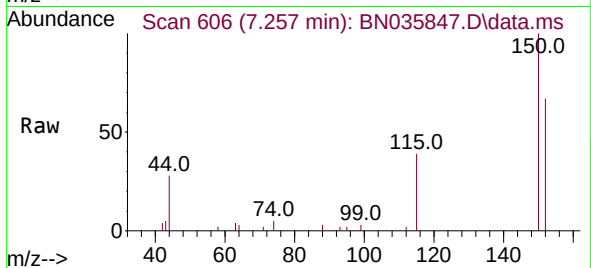
Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



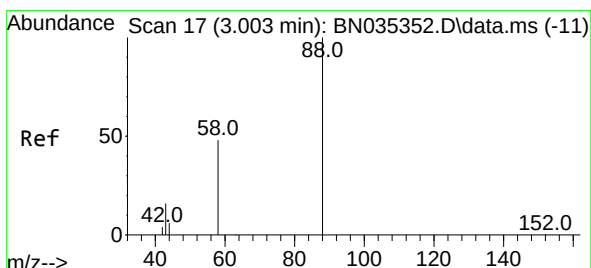
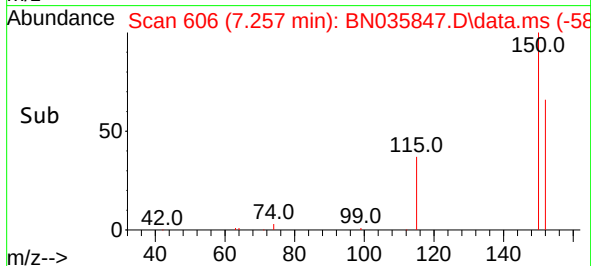
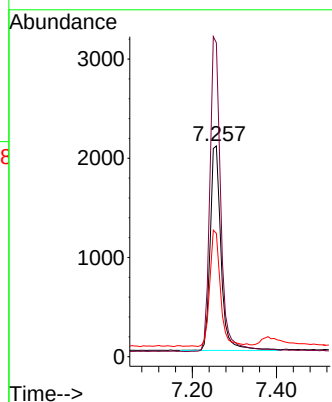


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

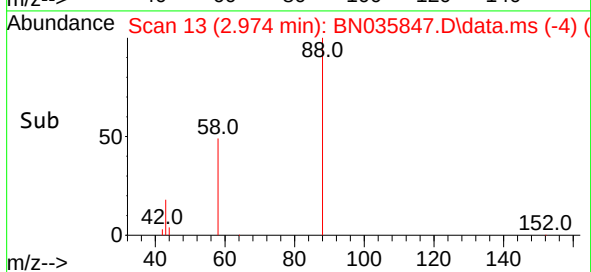
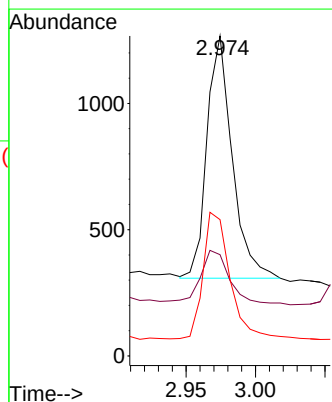
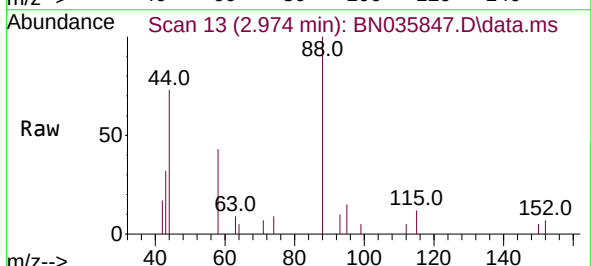


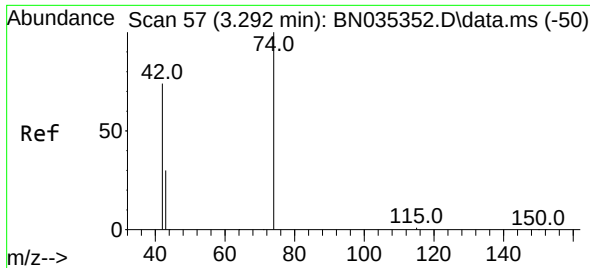
Tgt Ion:152 Resp: 3703
Ion Ratio Lower Upper
152 100
150 148.9 124.0 186.0
115 58.5 49.6 74.4



#2
1,4-Dioxane
Concen: 0.343 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 88 Resp: 1214
Ion Ratio Lower Upper
88 100
43 24.0 17.2 25.8
58 55.2 44.5 66.7

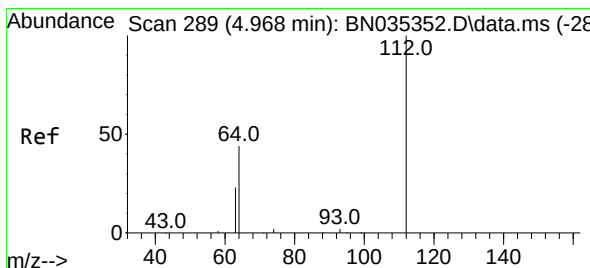
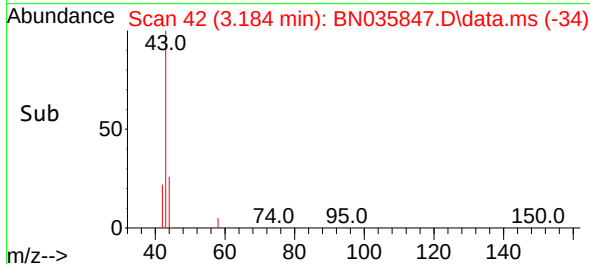
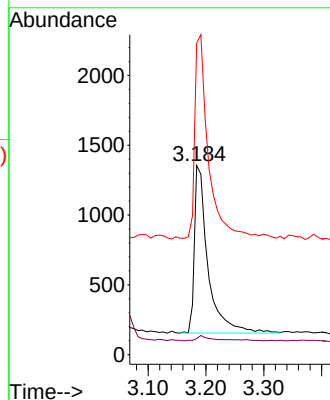
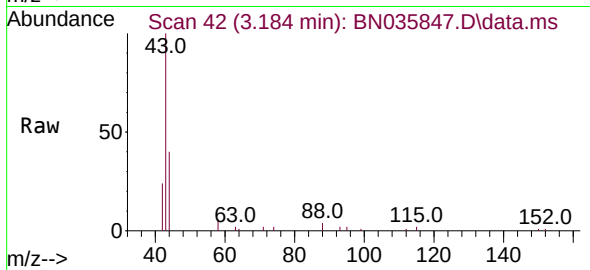




#3
 n-Nitrosodimethylamine
 Concen: 0.672 ng
 RT: 3.184 min Scan# 41
 Delta R.T. -0.094 min
 Lab File: BN035847.D
 Acq: 26 Dec 2024 11:20

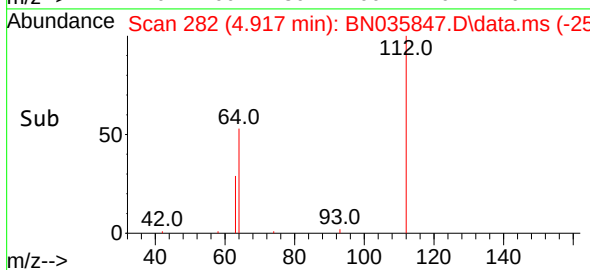
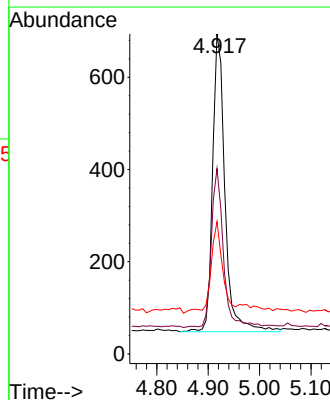
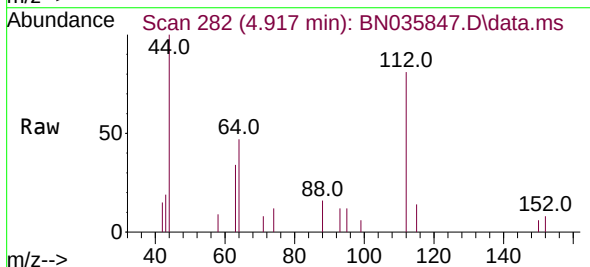
Instrument :
 BNA_N
 ClientSampleId :
 TT162S1-20241219

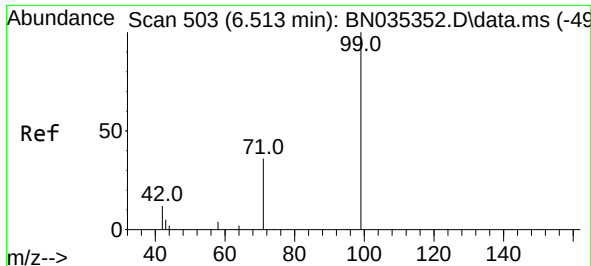
Tgt Ion: 42 Resp: 1981
 Ion Ratio Lower Upper
 42 100
 74 4.1 124.9 187.3#
 44 122.5 2.2 3.4#



#4
 2-Fluorophenol
 Concen: 0.116 ng
 RT: 4.917 min Scan# 282
 Delta R.T. -0.022 min
 Lab File: BN035847.D
 Acq: 26 Dec 2024 11:20

Tgt Ion: 112 Resp: 1078
 Ion Ratio Lower Upper
 112 100
 64 52.5 39.8 59.8
 63 29.4 21.0 31.6

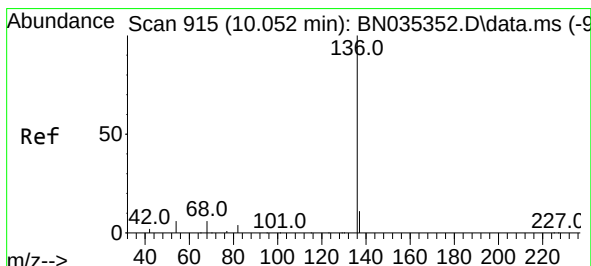
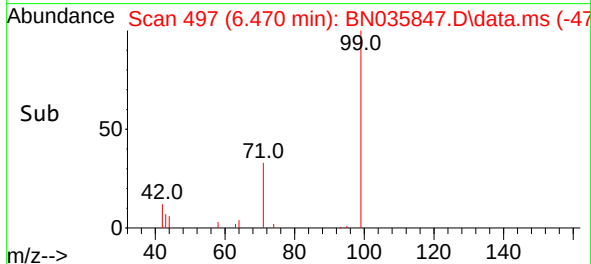
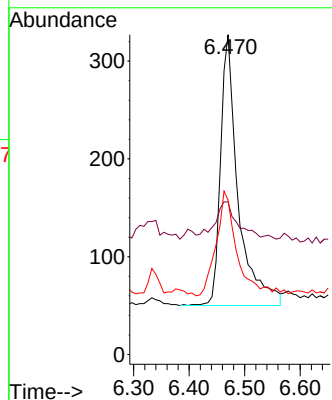
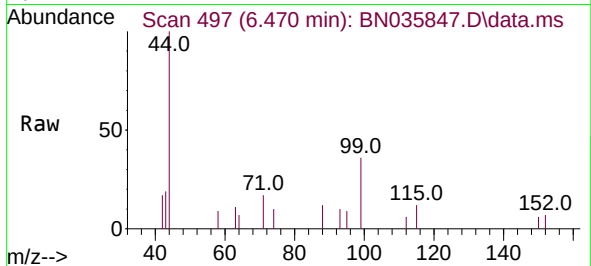




#5
Phenol-d6
Concen: 0.055 ng
RT: 6.470 min Scan# 49
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

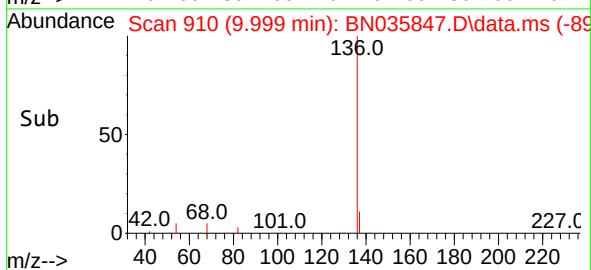
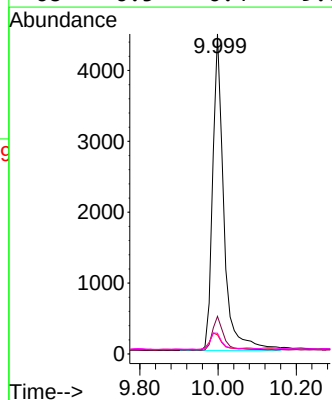
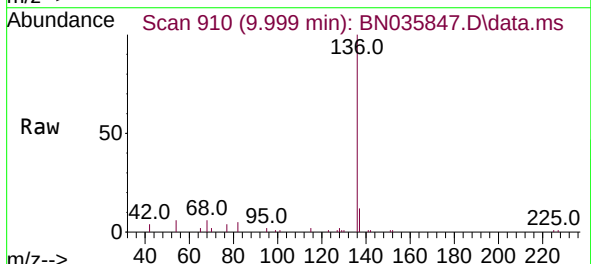
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

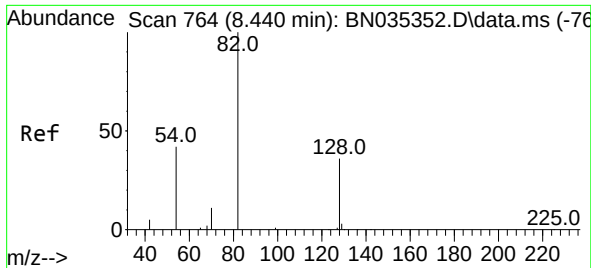
Tgt Ion: 99 Resp: 611
Ion Ratio Lower Upper
99 100
42 20.9 11.4 17.2#
71 46.6 29.3 43.9#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 136 Resp: 8876
Ion Ratio Lower Upper
136 100
137 11.7 10.2 15.2
54 6.0 6.1 9.1#
68 6.5 6.4 9.6

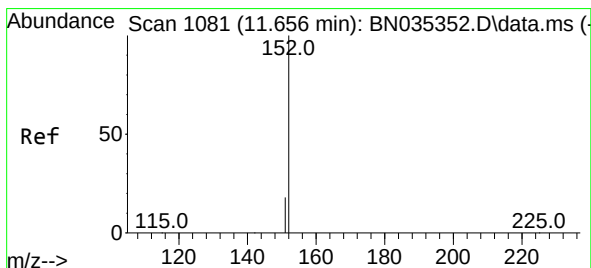
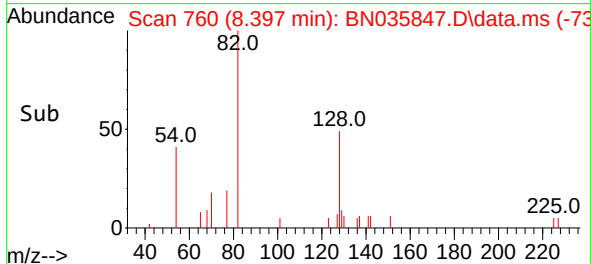
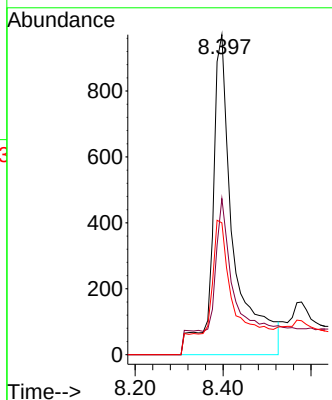
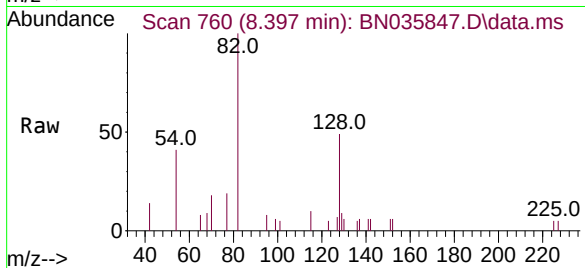




#8
Nitrobenzene-d5
Concen: 0.583 ng
RT: 8.397 min Scan# 70
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

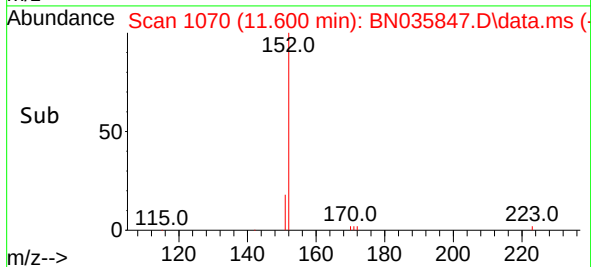
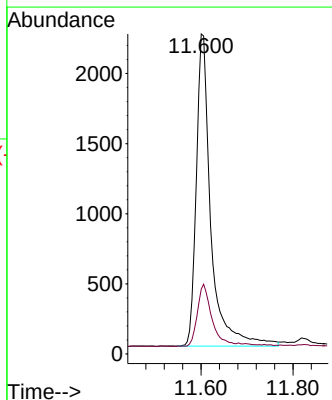
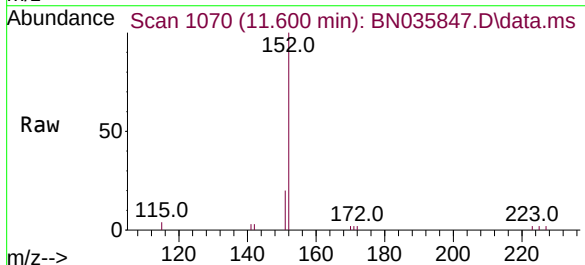
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

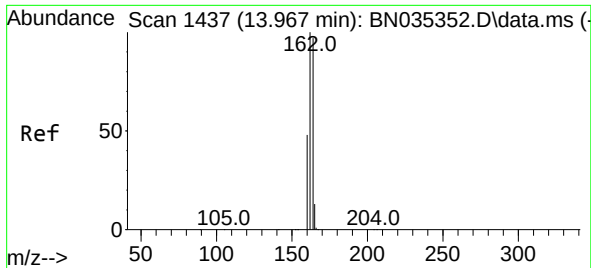
Tgt Ion: 82 Resp: 3163
Ion Ratio Lower Upper
82 100
128 48.8 33.4 50.0
54 41.2 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 152 Resp: 4895
Ion Ratio Lower Upper
152 100
151 19.7 16.6 25.0

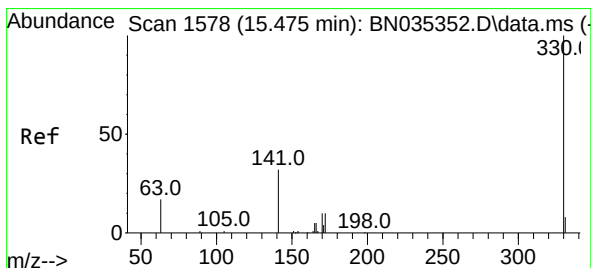
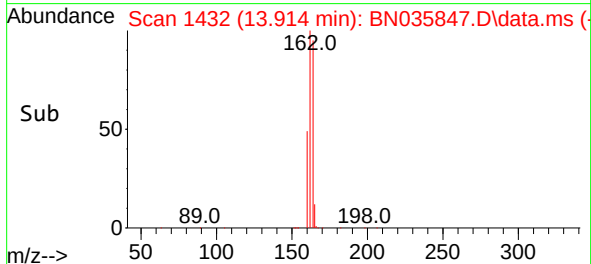
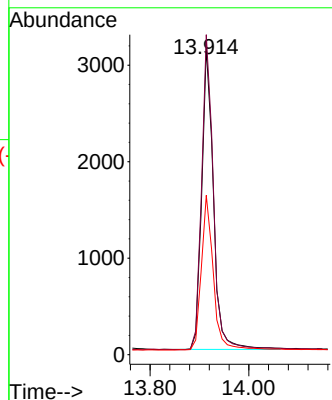
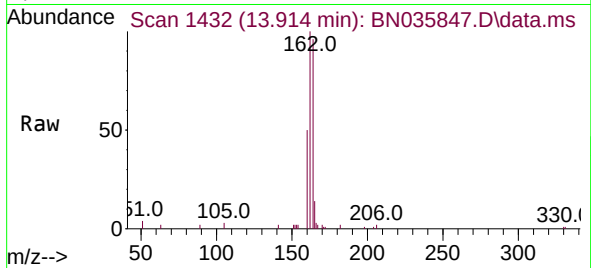




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

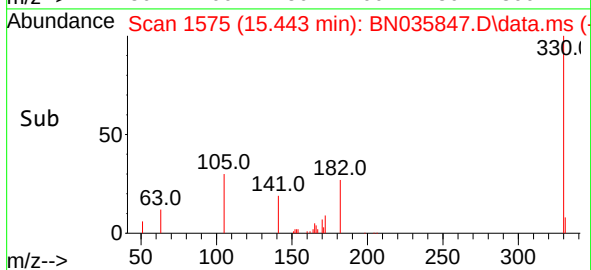
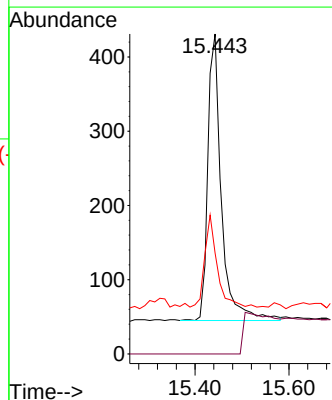
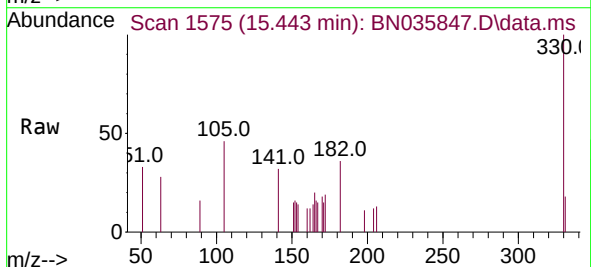
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

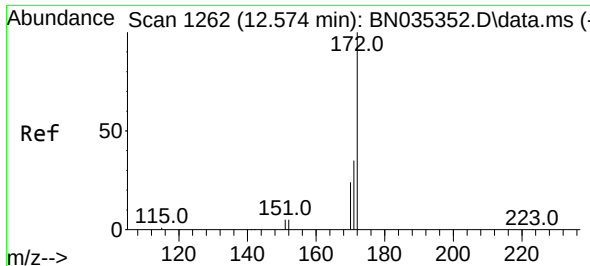
Tgt Ion:164 Resp: 5154
Ion Ratio Lower Upper
164 100
162 104.4 82.2 123.2
160 52.0 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:330 Resp: 808
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 28.6 26.6 40.0

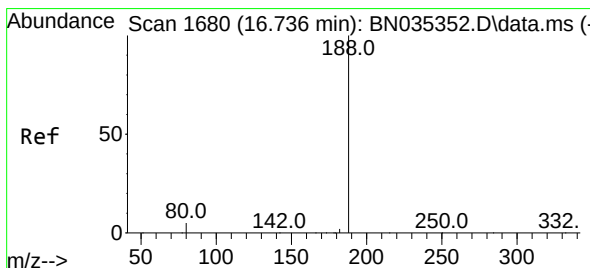
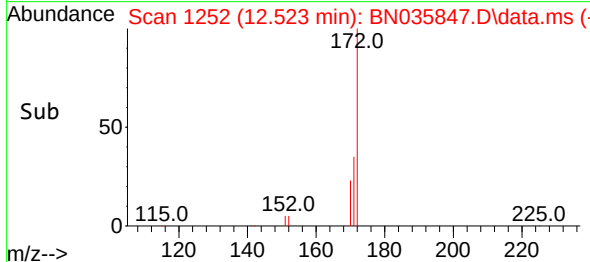
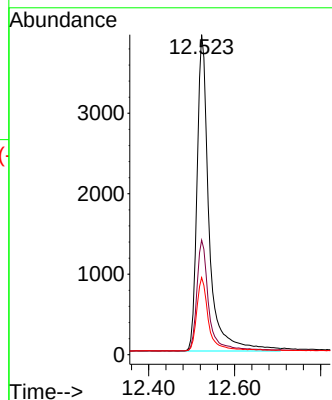
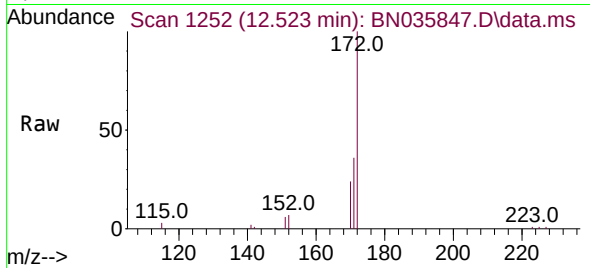




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

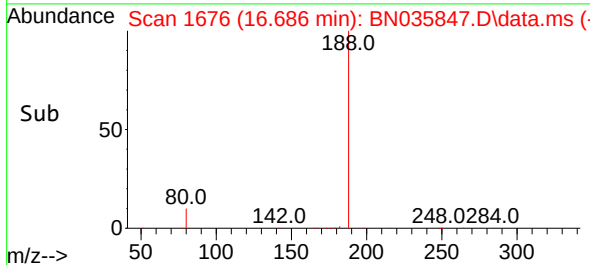
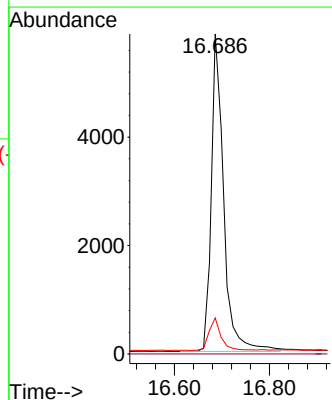
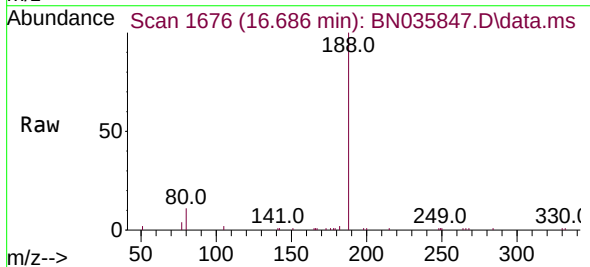
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

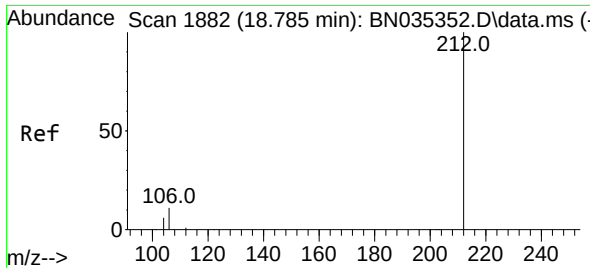
Tgt Ion:172	Resp:	7648
Ion Ratio	Lower	Upper
172	100	
171	35.8	29.0 43.4
170	24.1	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:188	Resp:	10596
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	11.2	4.6 6.8

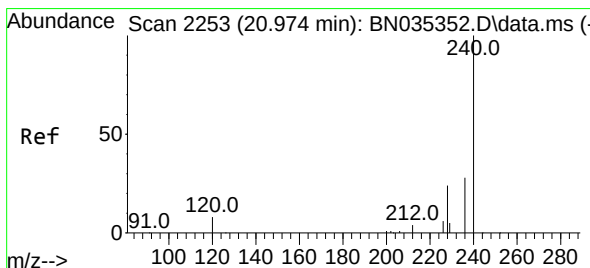
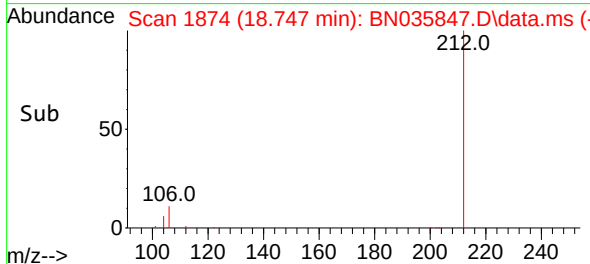
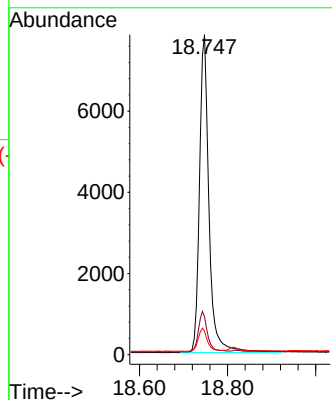
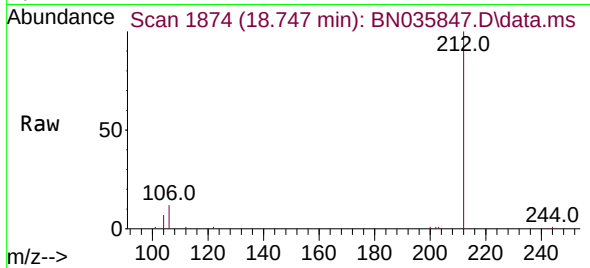




#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 18.747 min Scan# 11
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

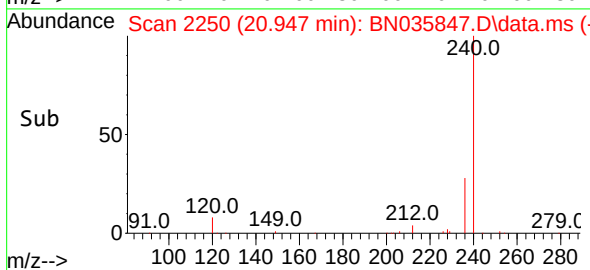
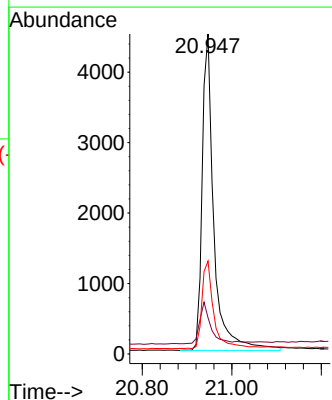
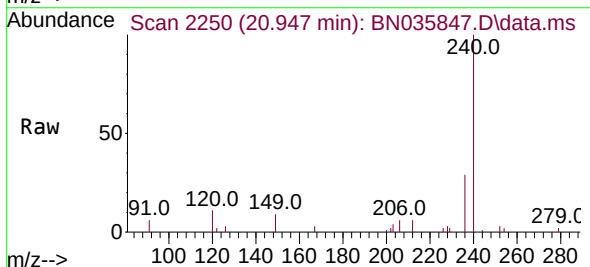
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

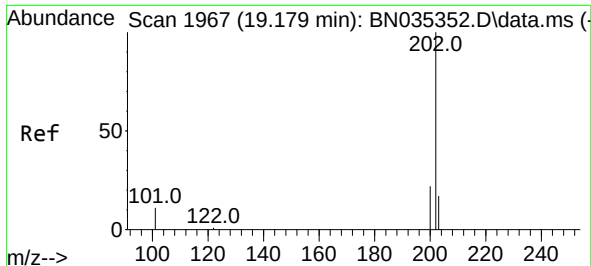
Tgt Ion:212 Resp: 11741
Ion Ratio Lower Upper
212 100
106 11.9 9.2 13.8
104 6.9 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:240 Resp: 8138
Ion Ratio Lower Upper
240 100
120 11.3 7.9 11.9
236 29.1 22.9 34.3

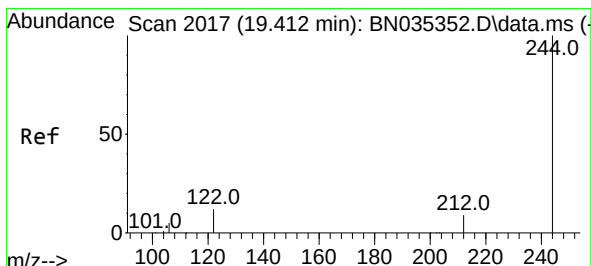
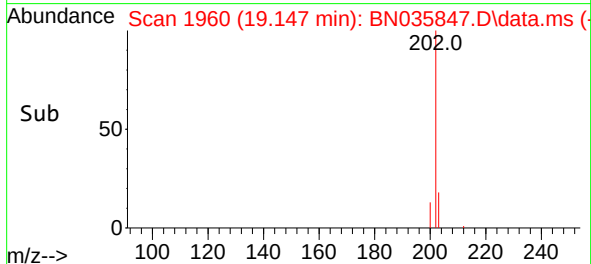
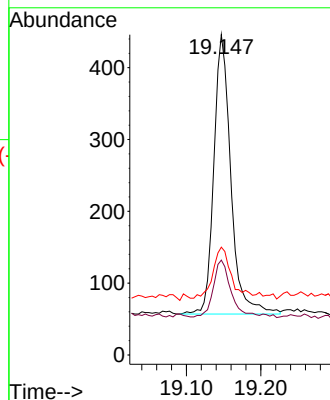
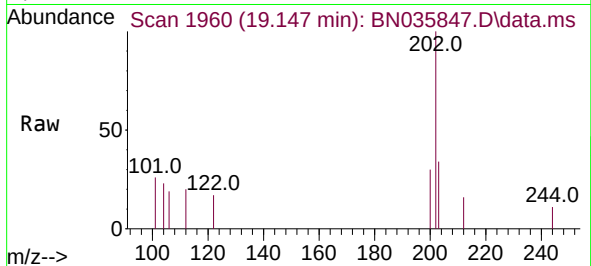




#30
Pyrene
Concen: 0.021 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

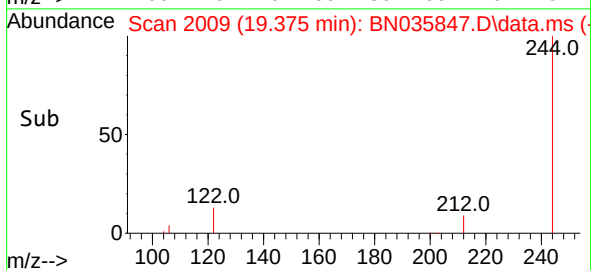
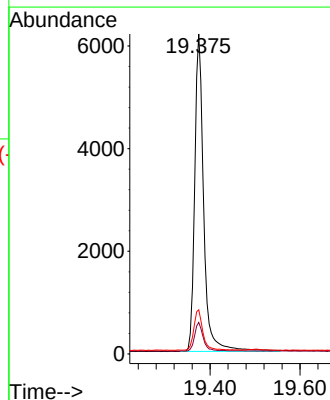
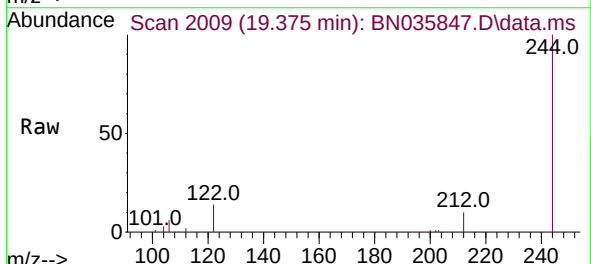
Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

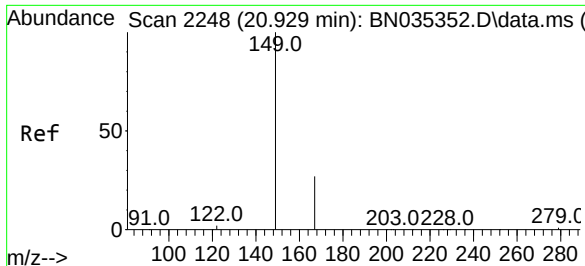
Tgt Ion:202 Resp: 618
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 20.2 14.3 21.5



#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:244 Resp: 8616
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 13.8 10.3 15.5

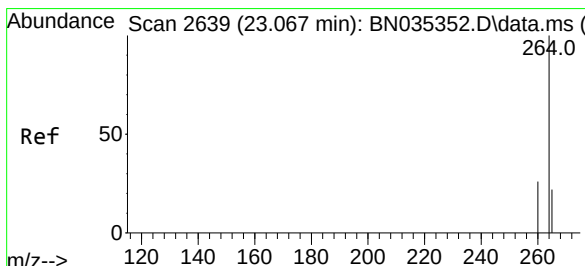
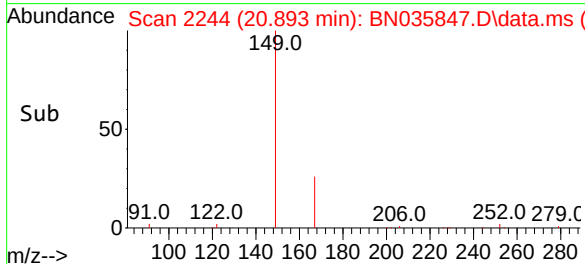
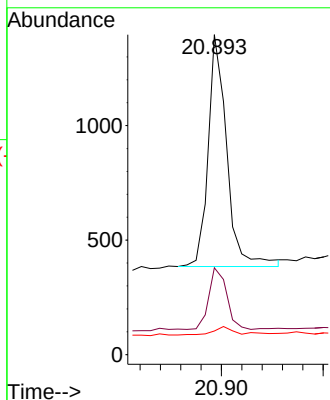
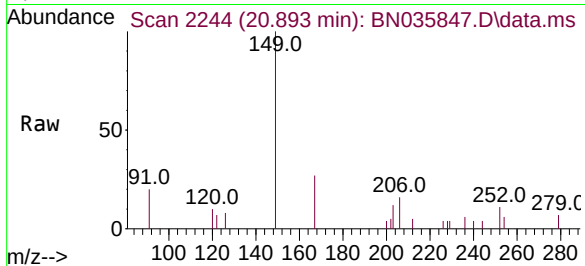




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.114 ng
 RT: 20.893 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BN035847.D
 Acq: 26 Dec 2024 11:20

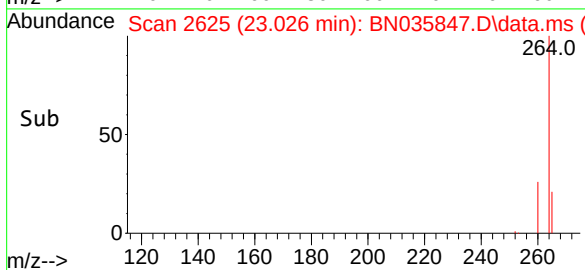
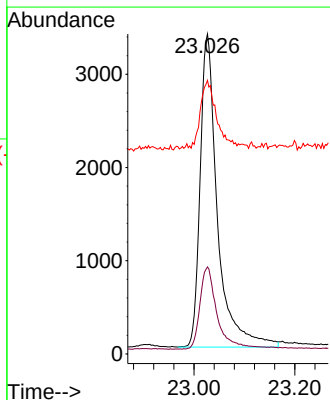
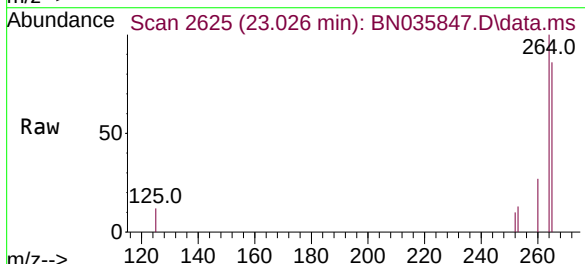
Instrument :
 BNA_N
 ClientSampleId :
 TT162S1-20241219

Tgt Ion:149 Resp: 1284
 Ion Ratio Lower Upper
 149 100
 167 25.5 22.2 33.4
 279 4.3 2.7 4.1#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.026 min Scan# 2625
 Delta R.T. -0.015 min
 Lab File: BN035847.D
 Acq: 26 Dec 2024 11:20

Tgt Ion:264 Resp: 8007
 Ion Ratio Lower Upper
 264 100
 260 27.2 21.4 32.2
 265 85.5 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035848.D
 Acq On : 26 Dec 2024 11:56
 Operator : RC/JU
 Sample : P5376-19
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT188S1-20241219

Quant Time: Dec 27 00:40:39 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)

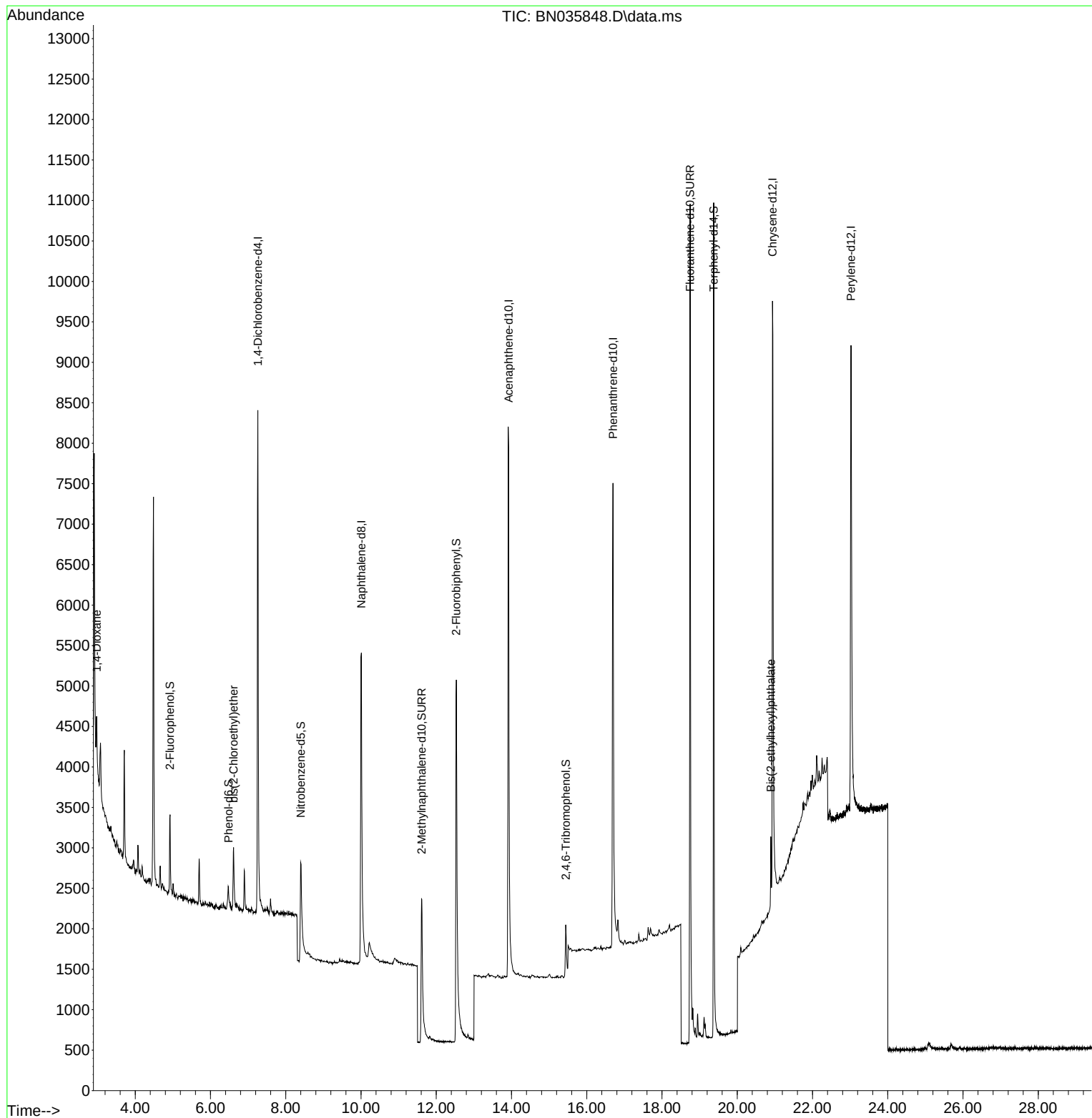
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3480	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8196	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	5304	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng	# 0.00
29) Chrysene-d12	20.938	240	9719	0.400	ng	#-0.02
35) Perylene-d12	23.024	264	9432	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	914	0.105	ng	-0.01
5) Phenol-d6	6.477	99	498	0.048	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2399	0.479	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4509	0.352	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	838	0.223	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	7269	0.363	ng	-0.01
27) Fluoranthene-d10	18.748	212	14226	0.435	ng	-0.01
31) Terphenyl-d14	19.375	244	10878	0.567	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.975	88	577	0.173	ng	# 83
6) bis(2-Chloroethyl)ether	6.615	93	1634	0.186	ng	# 32
34) Bis(2-ethylhexyl)phtha...	20.893	149	751	0.056	ng	# 95

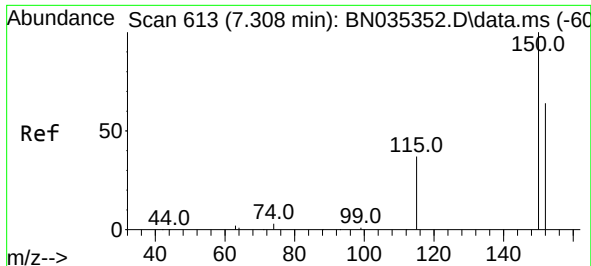
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

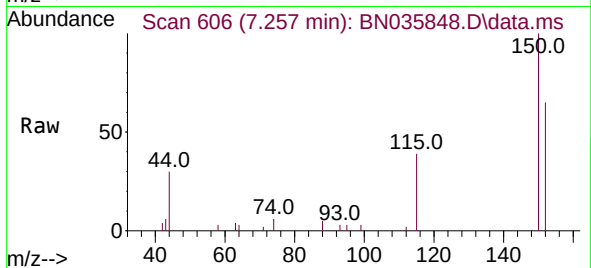
Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



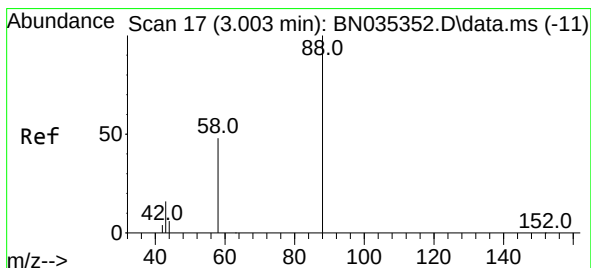
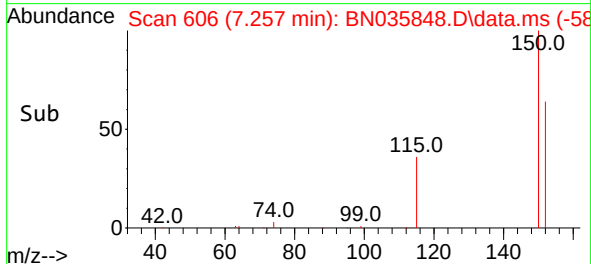
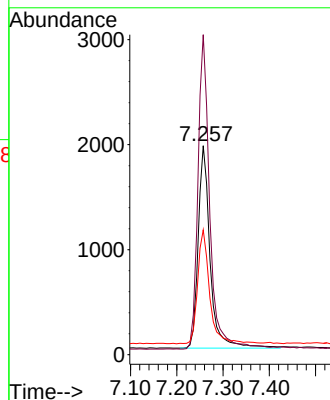


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035848.D
 Acq: 26 Dec 2024 11:56

Instrument :
 BNA_N
 ClientSampleId :
 TT188S1-20241219

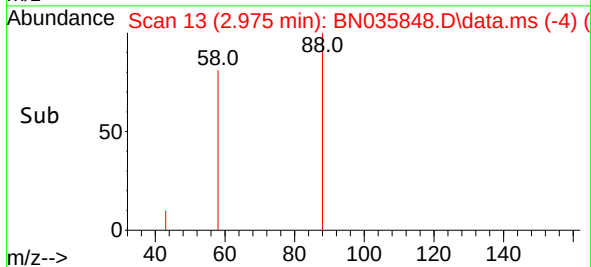
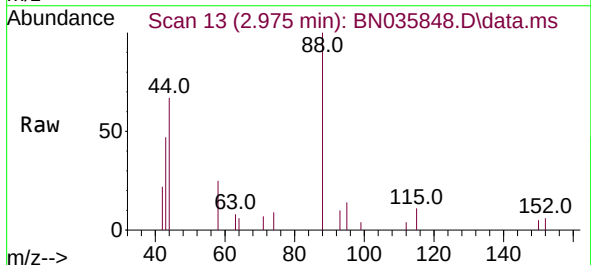
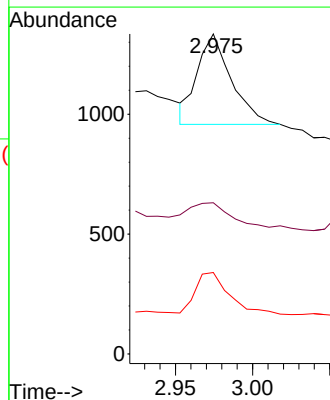


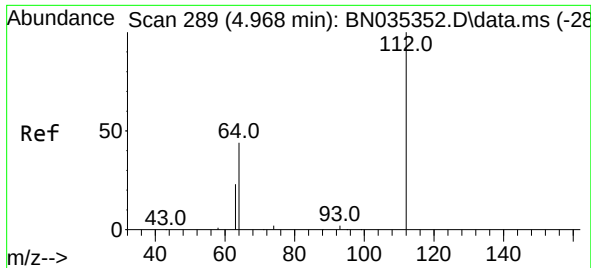
Tgt Ion:152 Resp: 3480
 Ion Ratio Lower Upper
 152 100
 150 153.1 124.0 186.0
 115 59.7 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.173 ng
 RT: 2.975 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035848.D
 Acq: 26 Dec 2024 11:56

Tgt Ion: 88 Resp: 577
 Ion Ratio Lower Upper
 88 100
 43 34.5 17.2 25.8#
 58 46.1 44.5 66.7

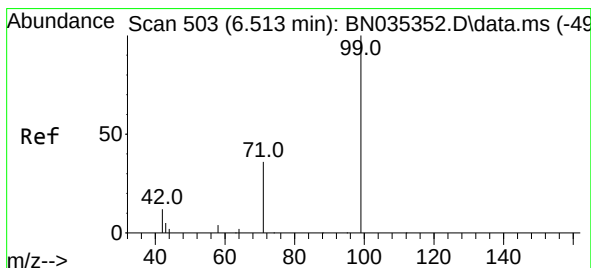
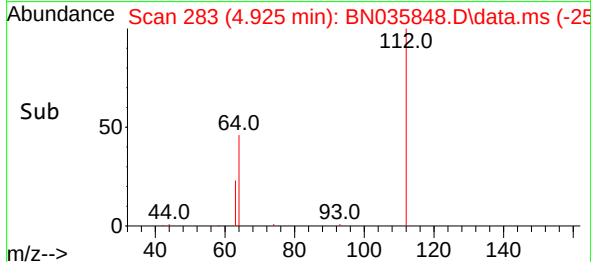
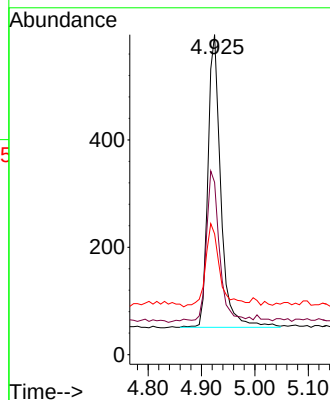
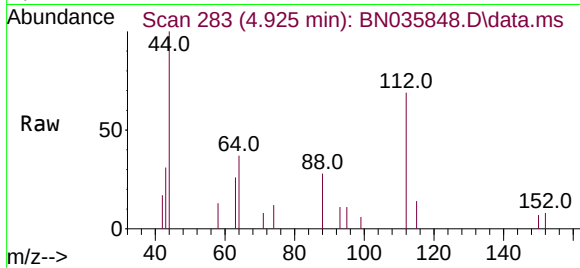




#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.925 min Scan# 21
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

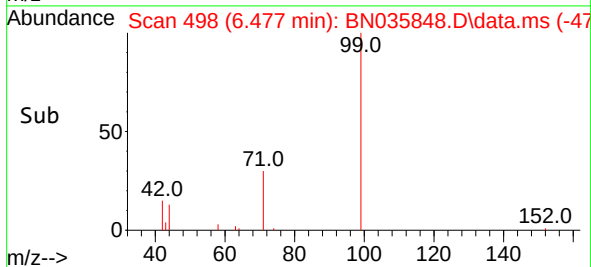
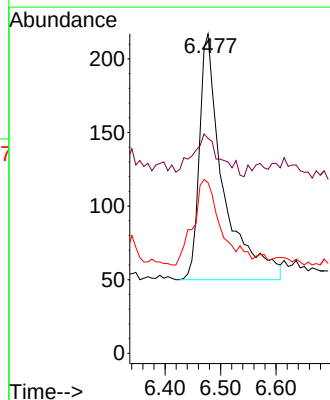
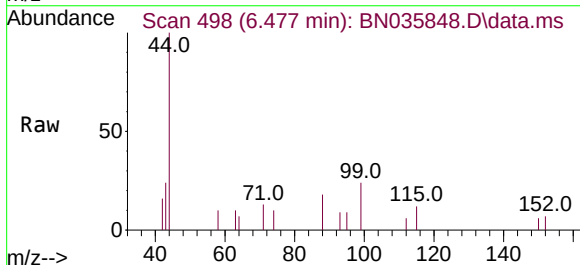
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

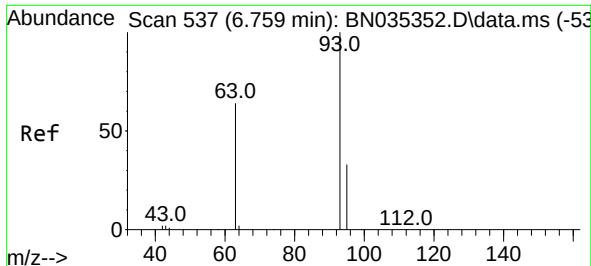
Tgt Ion:112 Resp: 914
Ion Ratio Lower Upper
112 100
64 50.8 39.8 59.8
63 31.6 21.0 31.6#



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 99 Resp: 498
Ion Ratio Lower Upper
99 100
42 19.5 11.4 17.2#
71 40.4 29.3 43.9

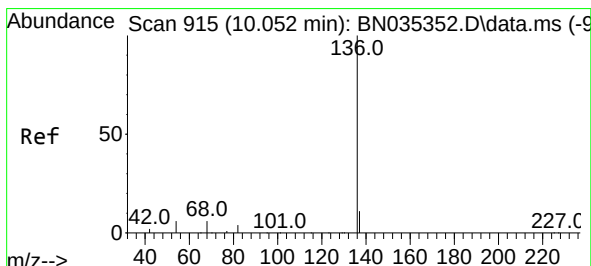
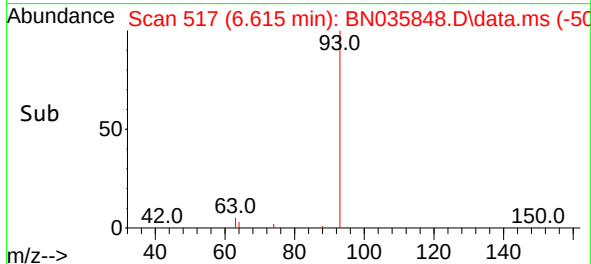
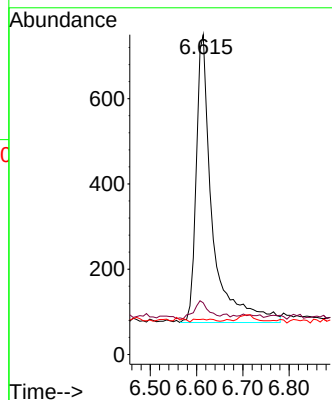
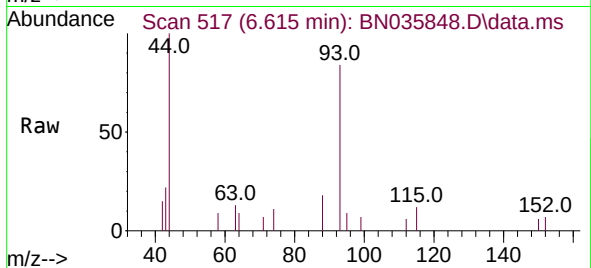




#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 6.615 min Scan# 517
Delta R.T. -0.116 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

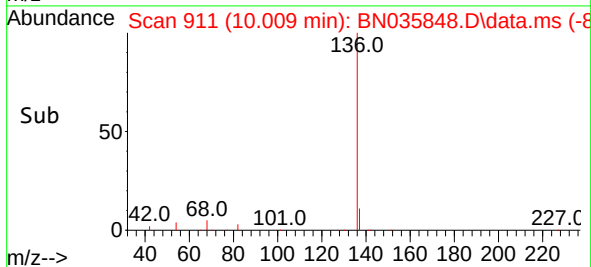
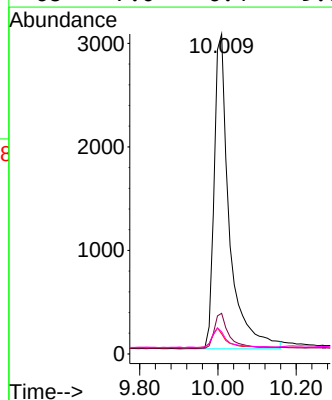
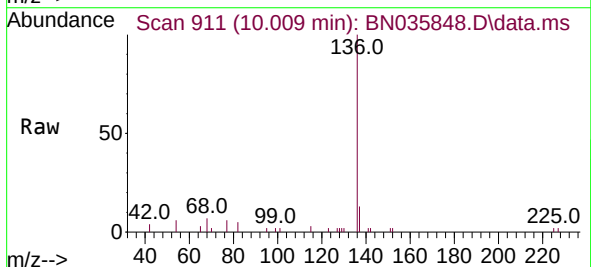
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

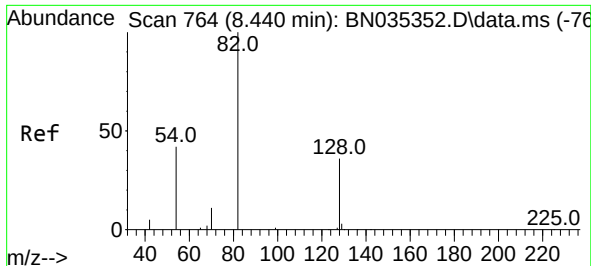
Tgt Ion: 93 Resp: 1634
Ion Ratio Lower Upper
93 100
63 5.6 50.4 75.6#
95 0.0 25.7 38.5#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:136 Resp: 8196
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 6.3 6.1 9.1
68 7.0 6.4 9.6

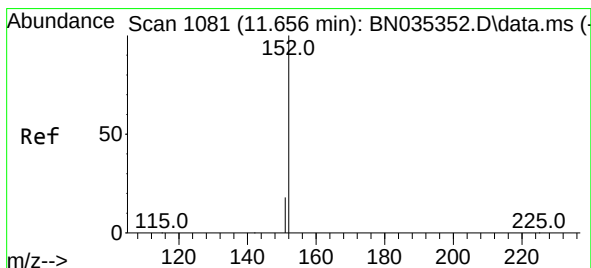
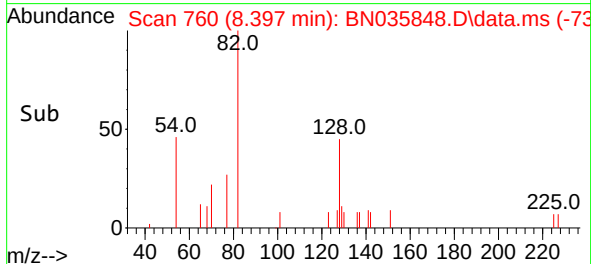
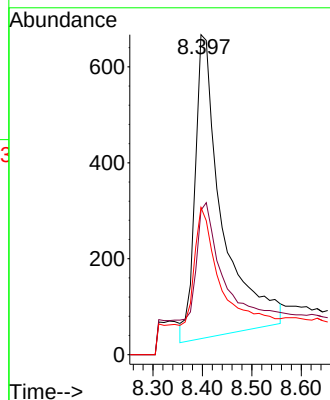
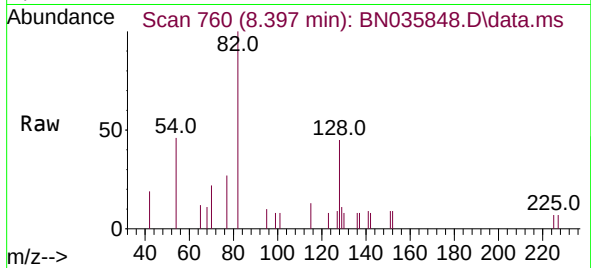




#8
Nitrobenzene-d5
Concen: 0.479 ng
RT: 8.397 min Scan# 70
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

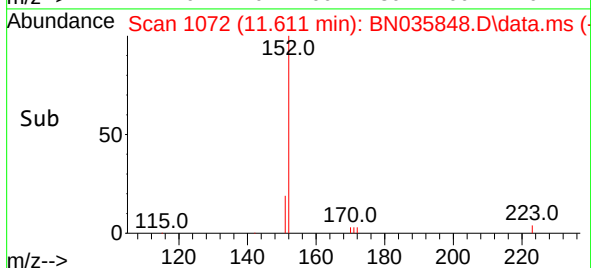
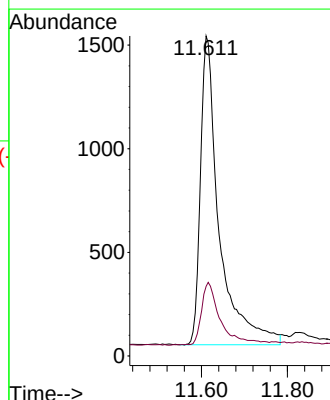
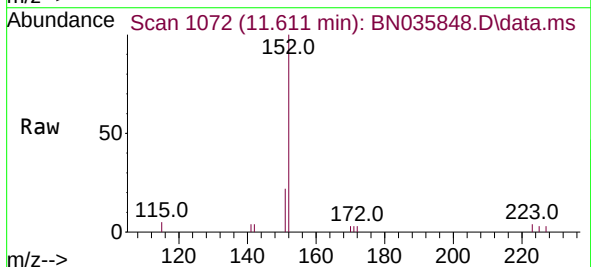
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

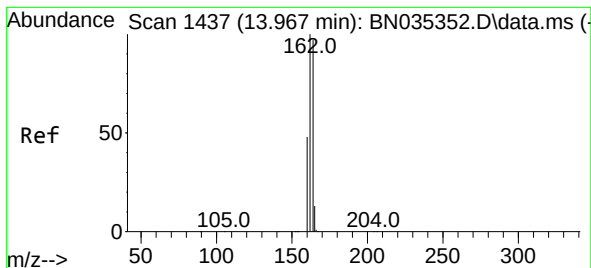
Tgt Ion: 82 Resp: 2399
Ion Ratio Lower Upper
82 100
128 45.1 33.4 50.0
54 46.0 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 152 Resp: 4509
Ion Ratio Lower Upper
152 100
151 21.1 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: BN035848.D

Acq: 26 Dec 2024 11:56

Instrument :

BNA_N

ClientSampleId :

TT188S1-20241219

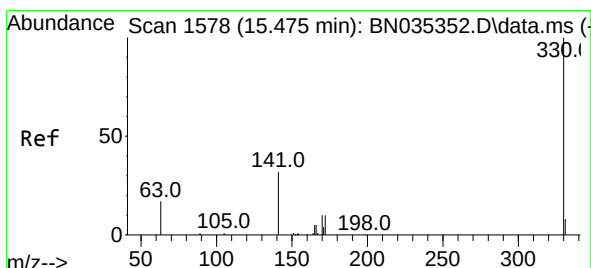
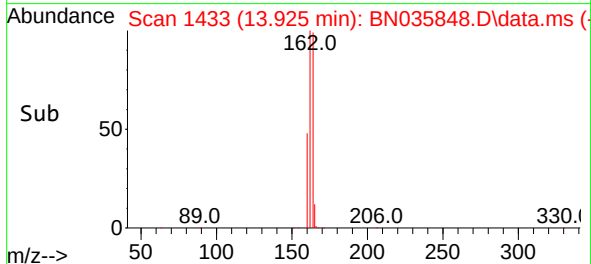
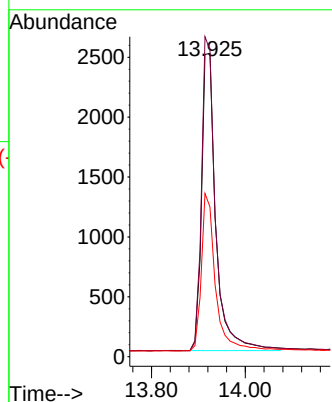
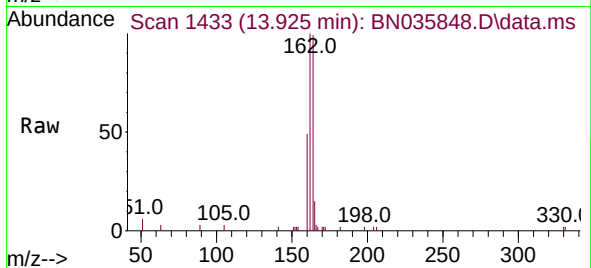
Tgt Ion:164 Resp: 5304

Ion Ratio Lower Upper

164 100

162 101.1 82.2 123.2

160 49.4 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.223 ng

RT: 15.443 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035848.D

Acq: 26 Dec 2024 11:56

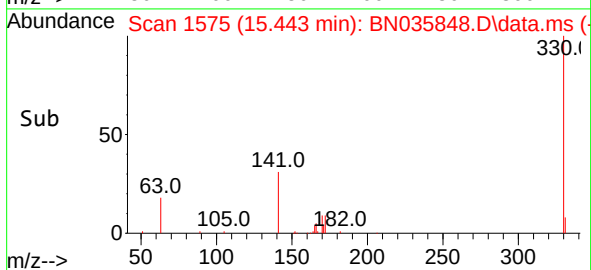
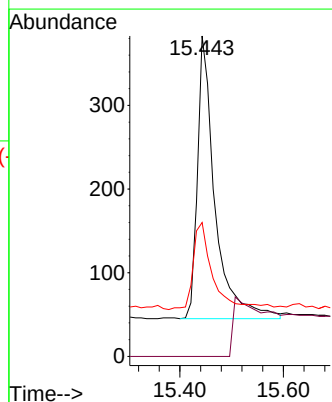
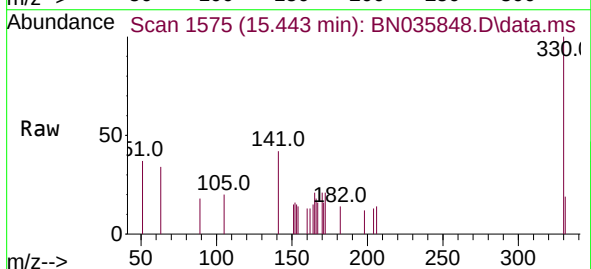
Tgt Ion:330 Resp: 838

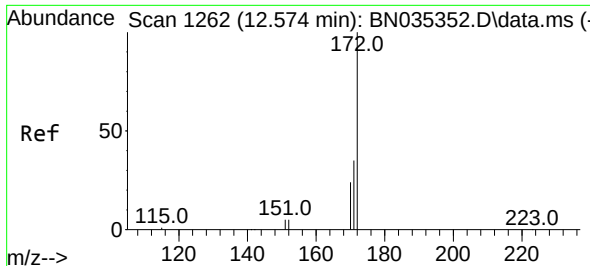
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 34.1 26.6 40.0

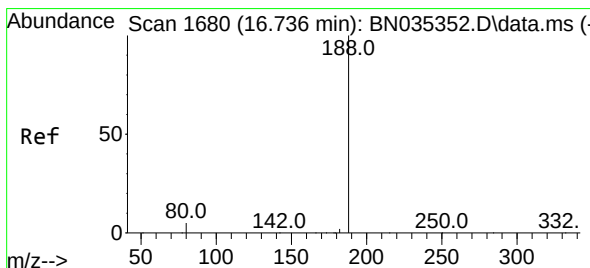
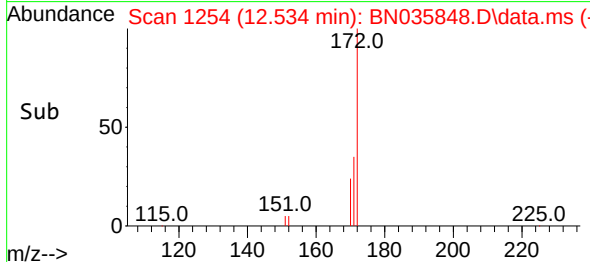
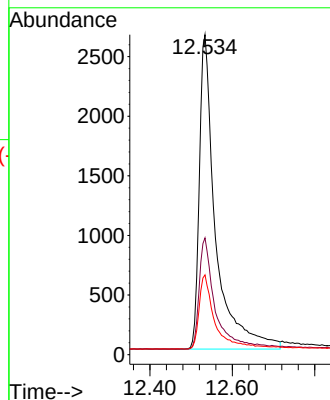
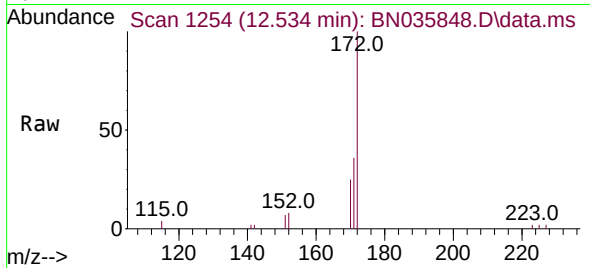




#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.534 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

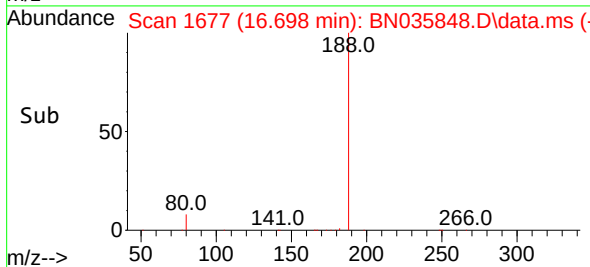
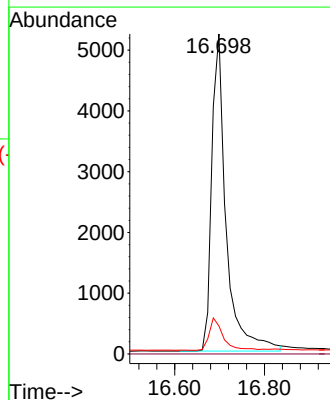
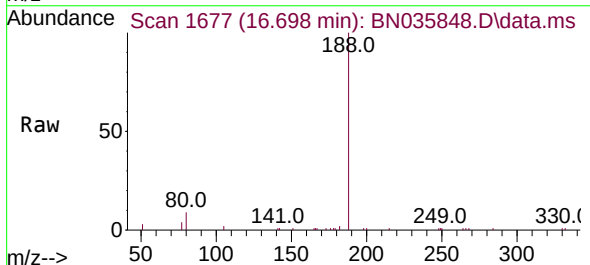
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

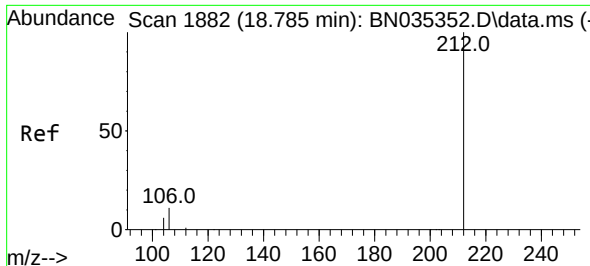
Tgt Ion:172	Resp:	7269
Ion	Ratio	Lower Upper
172	100	
171	36.5	29.0 43.4
170	24.9	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:188	Resp:	11548
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	8.8	4.6 6.8

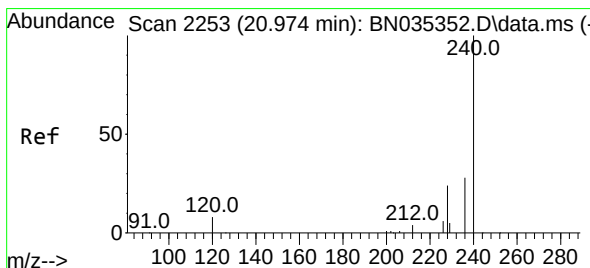
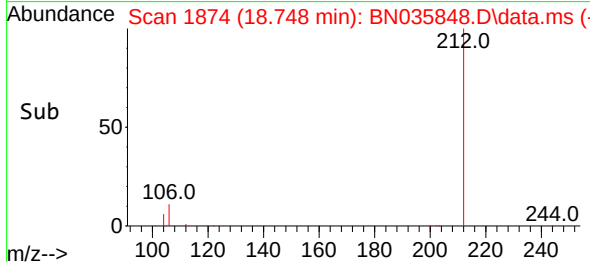
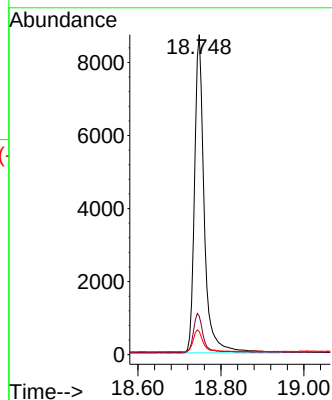
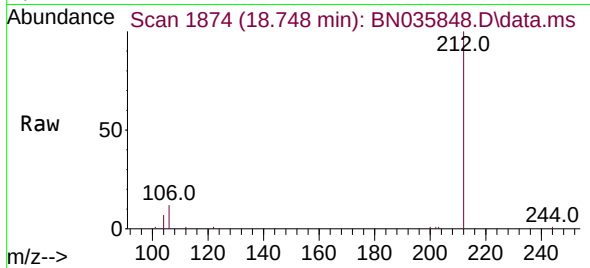




#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

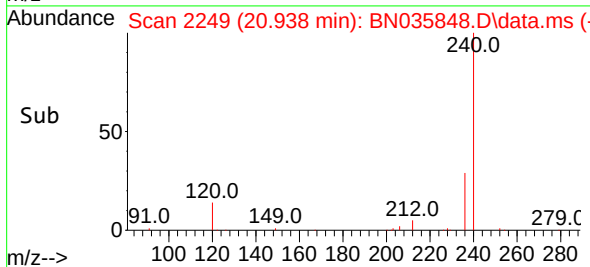
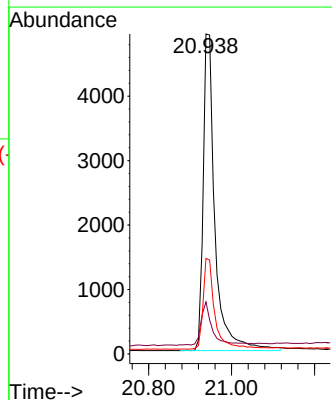
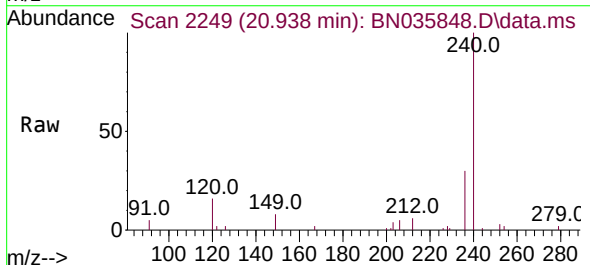
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

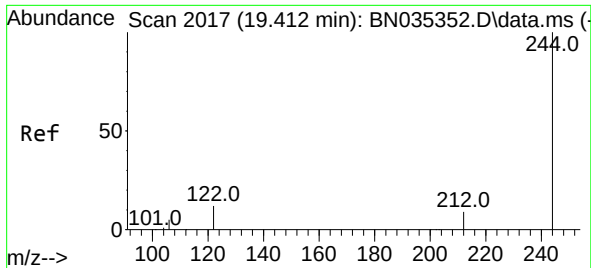
Tgt Ion:212 Resp: 14226
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 7.2 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

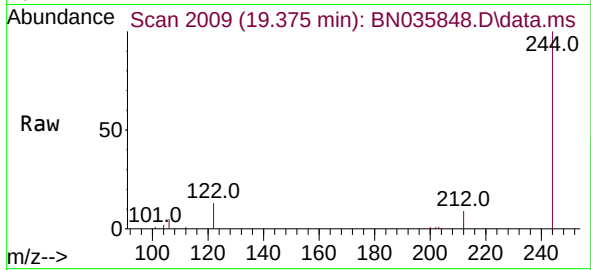
Tgt Ion:240 Resp: 9719
Ion Ratio Lower Upper
240 100
120 16.2 7.9 11.9#
236 29.8 22.9 34.3



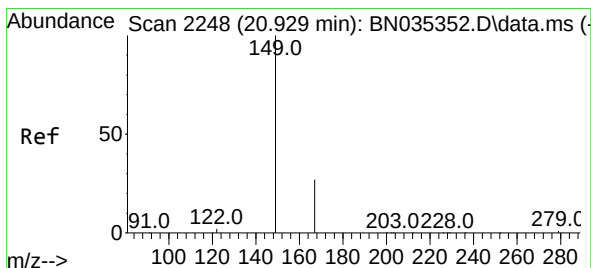
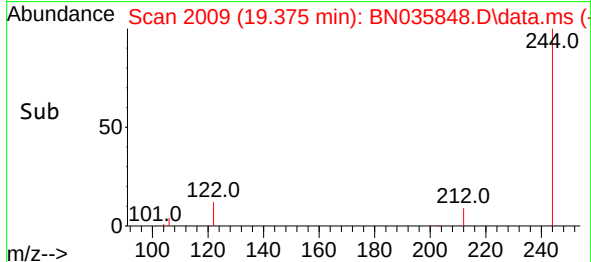
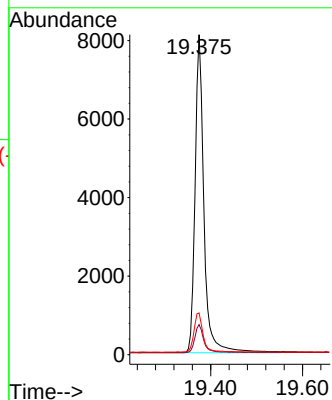


#31
Terphenyl-d14
Concen: 0.567 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

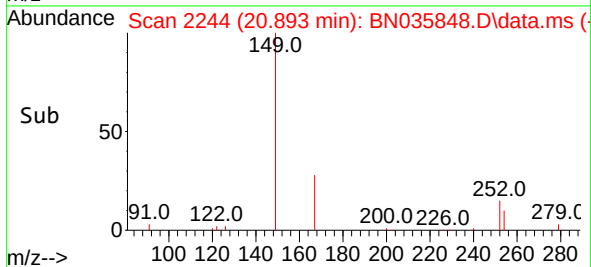
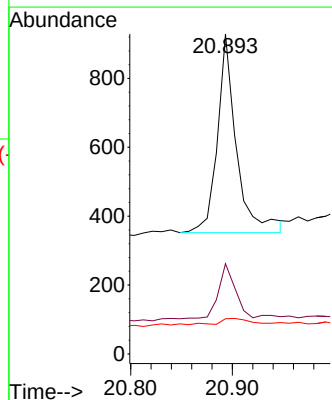
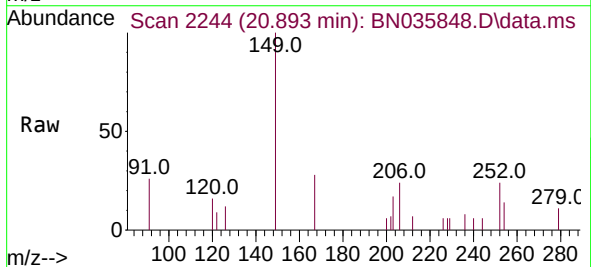


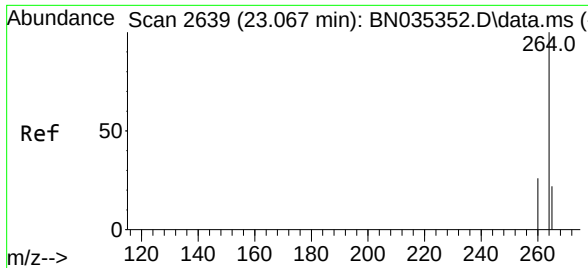
Tgt Ion:244 Resp: 10878
Ion Ratio Lower Upper
244 100
212 9.4 8.1 12.1
122 13.1 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

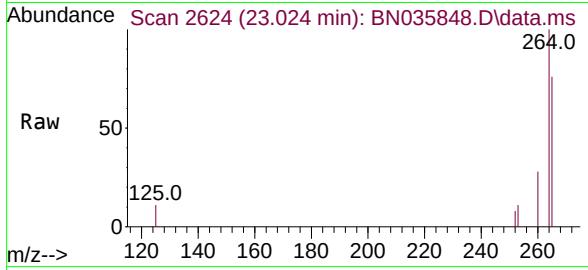
Tgt Ion:149 Resp: 751
Ion Ratio Lower Upper
149 100
167 25.2 22.2 33.4
279 6.0 2.7 4.1#



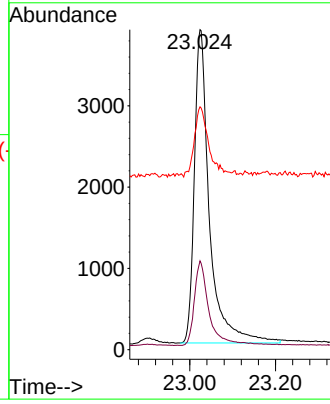
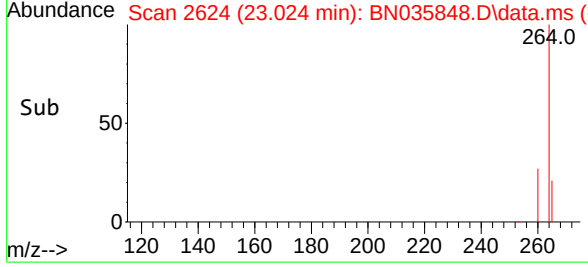


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 20
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219



Tgt Ion:264 Resp: 9432
Ion Ratio Lower Upper
264 100
260 27.7 21.4 32.2
265 75.9 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035849.D
 Acq On : 26 Dec 2024 12:31
 Operator : RC/JU
 Sample : P5376-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT205S1-20241218

Quant Time: Dec 27 00:40:49 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)

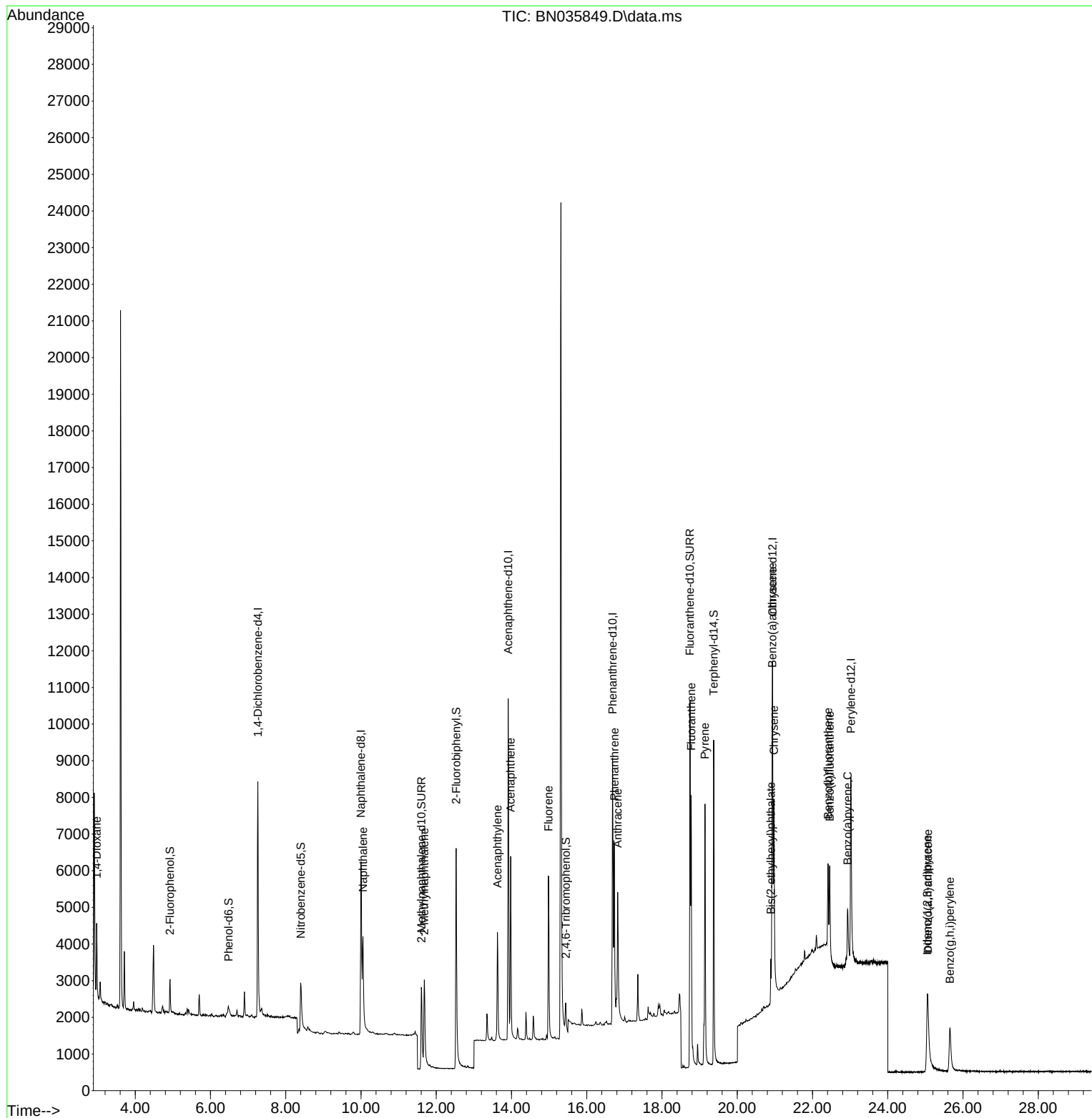
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3517	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8324	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5358	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11302	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	8549	0.400	ng	#-0.02
35) Perylene-d12	23.021	264	7798	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	846	0.096	ng	-0.01
5) Phenol-d6	6.477	99	442	0.042	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2382	0.469	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	4536	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	860	0.226	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7437	0.367	ng	-0.02
27) Fluoranthene-d10	18.743	212	12788	0.399	ng	-0.02
31) Terphenyl-d14	19.375	244	9994	0.593	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1289	0.383	ng	95
9) Naphthalene	10.052	128	3939	0.179	ng	96
12) 2-Methylnaphthalene	11.682	142	2490	0.158	ng	98
16) Acenaphthylene	13.625	152	3867	0.172	ng	99
17) Acenaphthene	13.978	154	2493	0.167	ng	99
18) Fluorene	14.983	166	3286	0.154	ng	99
25) Phenanthrene	16.736	178	6290	0.203	ng	99
26) Anthracene	16.823	178	4610	0.164	ng	98
28) Fluoranthene	18.775	202	6981	0.167	ng	99
30) Pyrene	19.142	202	7191	0.228	ng	99
32) Benzo(a)anthracene	20.929	228	4336	0.145	ng	97
33) Chrysene	20.974	228	5151	0.167	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1190	0.101	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.050	276	3640	0.119	ng	99
37) Benzo(b)fluoranthene	22.413	252	5477	0.192	ng	# 75
38) Benzo(k)fluoranthene	22.456	252	4164	0.148	ng	# 73
39) Benzo(a)pyrene	22.933	252	2844	0.121	ng	# 53
40) Dibenzo(a,h)anthracene	25.067	278	2834	0.118	ng	# 70
41) Benzo(g,h,i)perylene	25.652	276	2847	0.113	ng	# 90

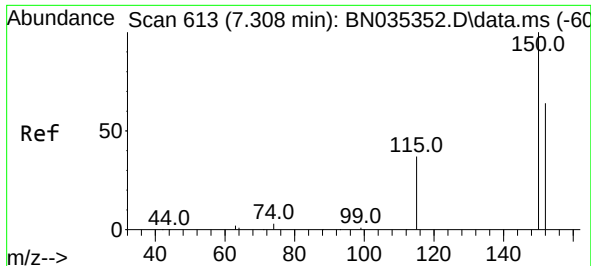
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

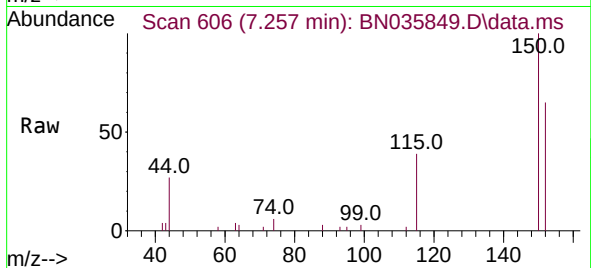
Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





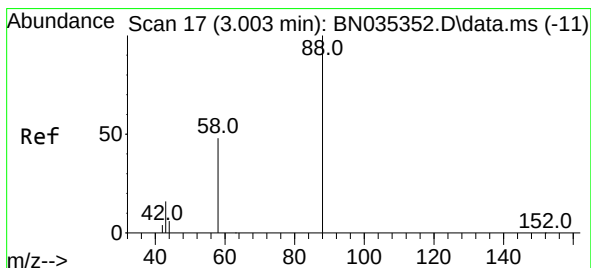
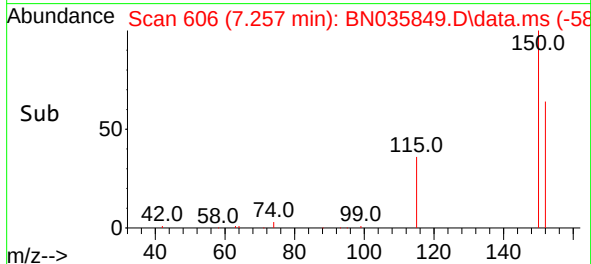
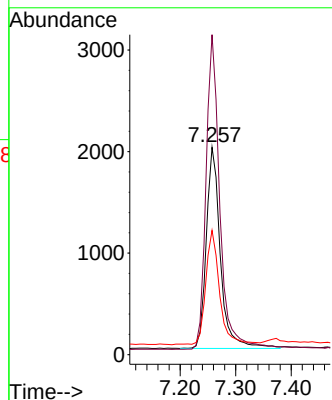
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035849.D
 Acq: 26 Dec 2024 12:31

Instrument :
 BNA_N
 ClientSampleId :
 TT205S1-20241218



Tgt Ion:152 Resp: 3517

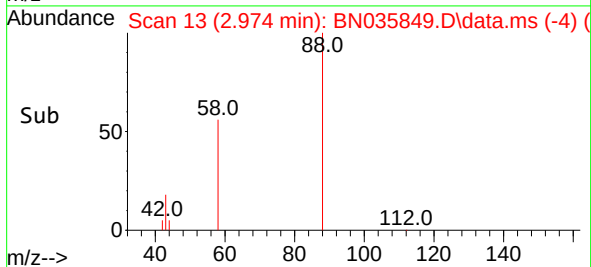
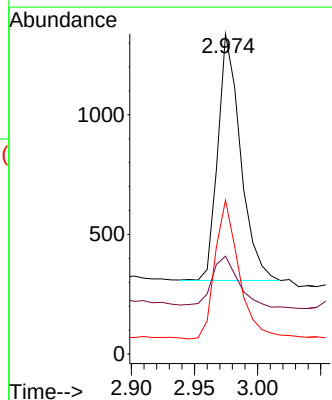
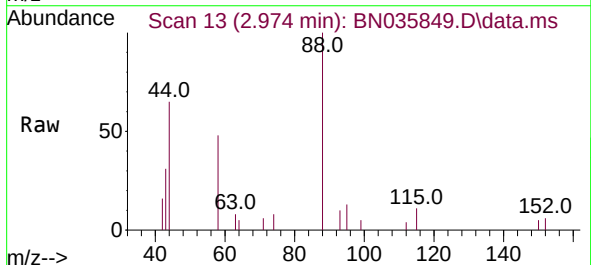
Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.0	186.0
115	60.0	49.6	74.4

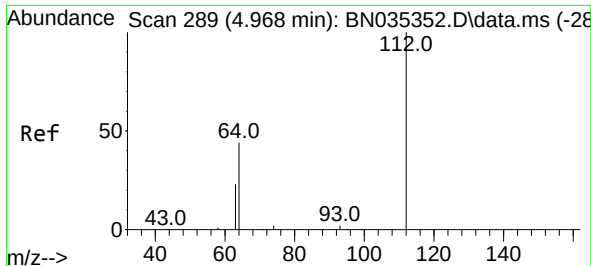


#2
 1,4-Dioxane
 Concen: 0.383 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.008 min
 Lab File: BN035849.D
 Acq: 26 Dec 2024 12:31

Tgt Ion: 88 Resp: 1289

Ion	Ratio	Lower	Upper
88	100		
43	24.2	17.2	25.8
58	59.4	44.5	66.7

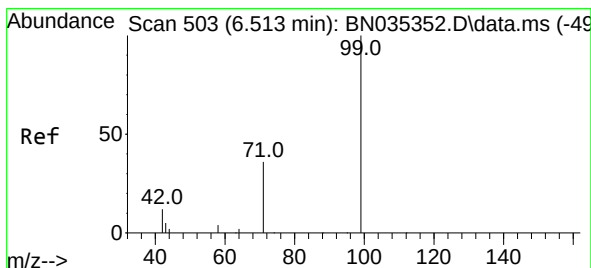
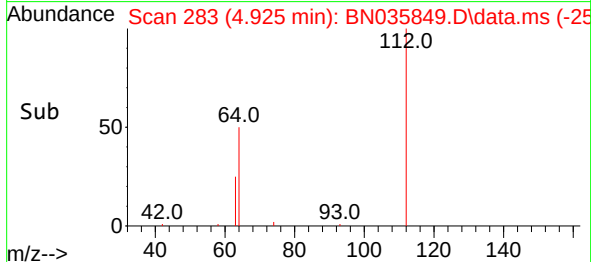
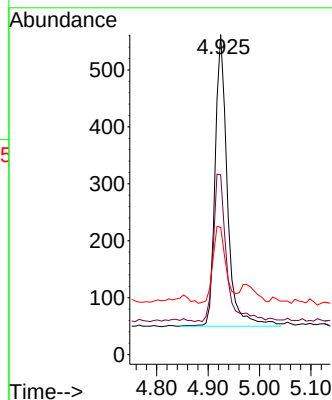
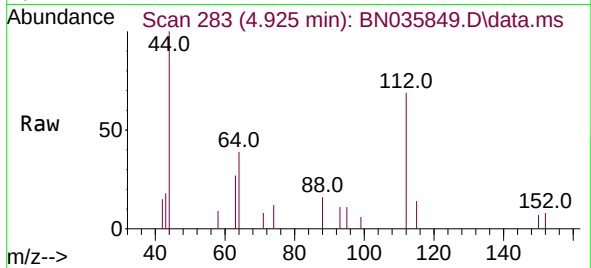




#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.925 min Scan# 21
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

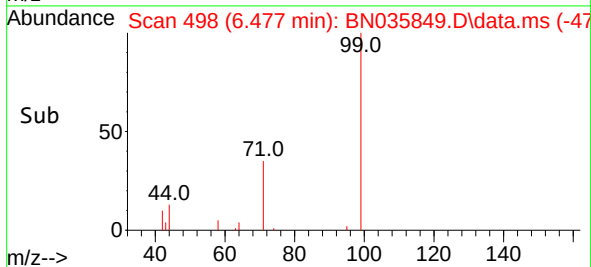
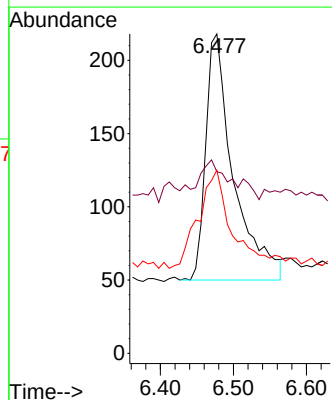
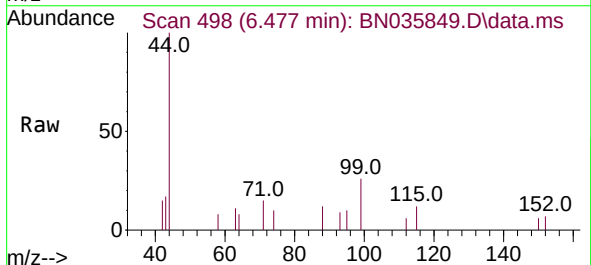
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

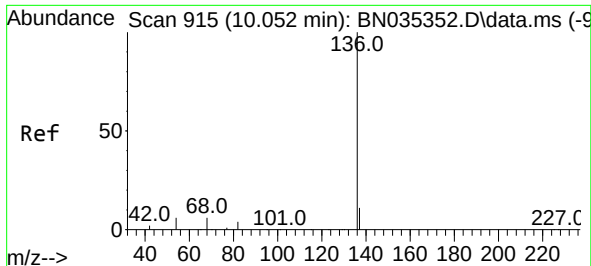
Tgt Ion:112 Resp: 846
Ion Ratio Lower Upper
112 100
64 54.4 39.8 59.8
63 27.9 21.0 31.6



#5
Phenol-d6
Concen: 0.042 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 99 Resp: 442
Ion Ratio Lower Upper
99 100
42 11.3 11.4 17.2#
71 51.1 29.3 43.9#

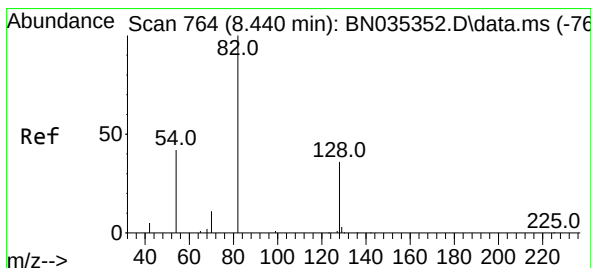
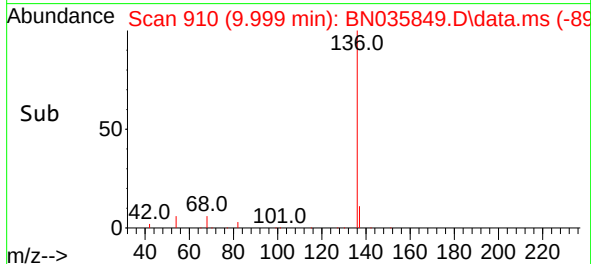
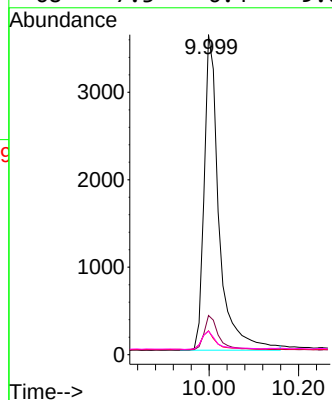
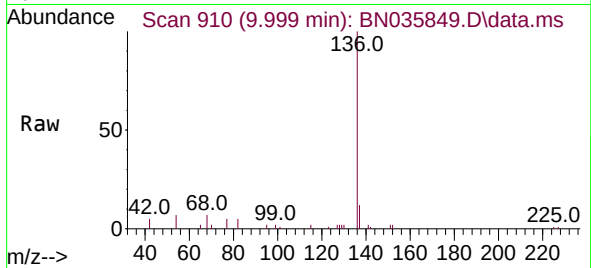




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

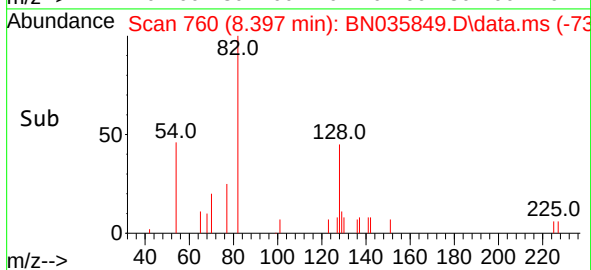
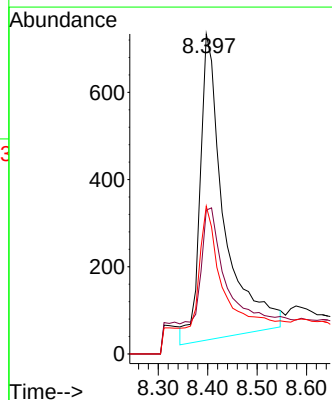
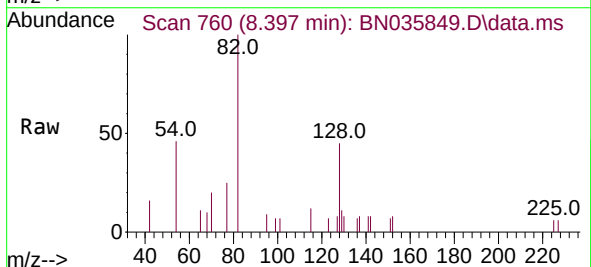
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

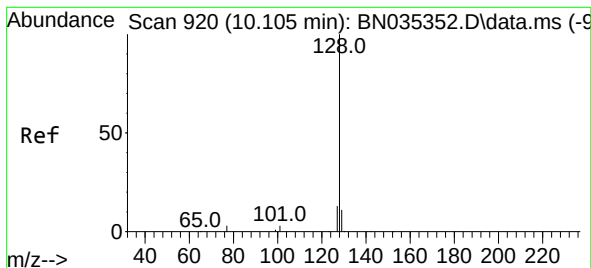
Tgt Ion:	136	Resp:	8324
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.3	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:	82	Resp:	2382
Ion	Ratio	Lower	Upper
82	100		
128	45.0	33.4	50.0
54	46.2	36.7	55.1





#9

Naphthalene

Concen: 0.179 ng

RT: 10.052 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035849.D

Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218

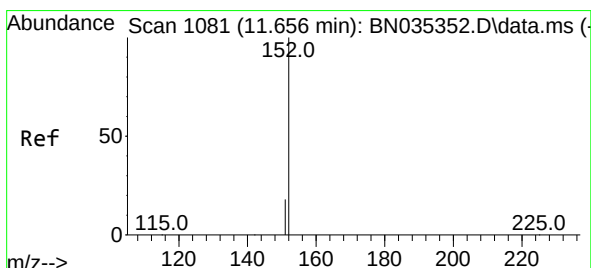
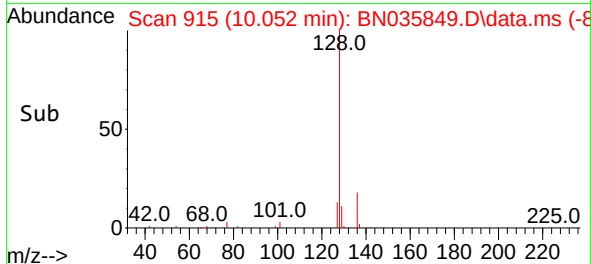
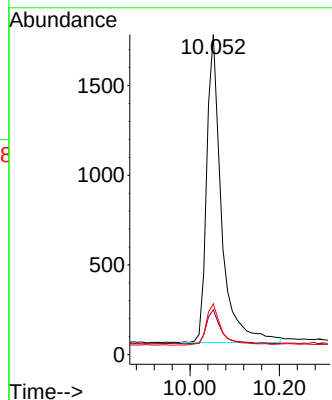
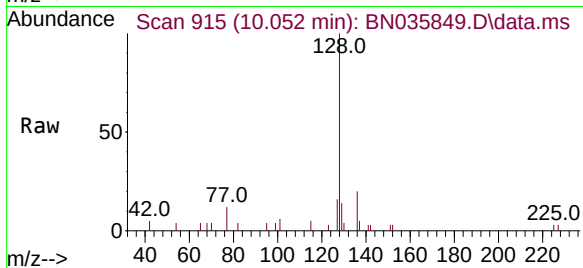
Tgt Ion:128 Resp: 3939

Ion Ratio Lower Upper

128 100

129 14.0 9.8 14.6

127 15.9 11.4 17.2



#11

2-Methylnaphthalene-d10

Concen: 0.348 ng

RT: 11.606 min Scan# 1071

Delta R.T. -0.015 min

Lab File: BN035849.D

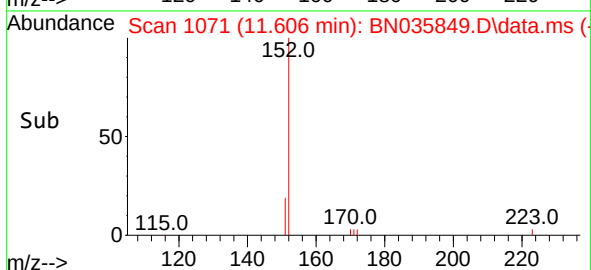
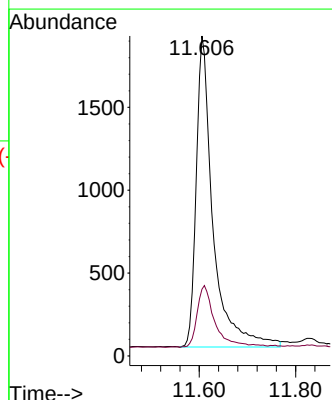
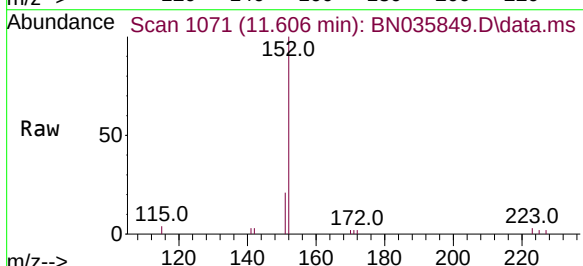
Acq: 26 Dec 2024 12:31

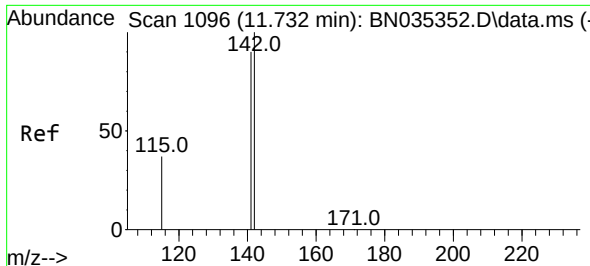
Tgt Ion:152 Resp: 4536

Ion Ratio Lower Upper

152 100

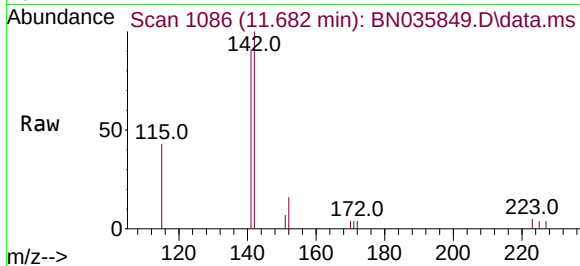
151 20.9 16.6 25.0



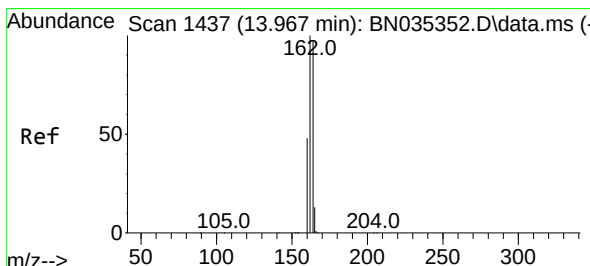
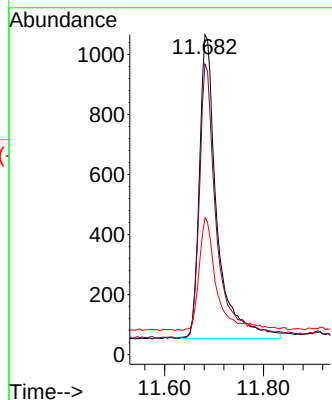
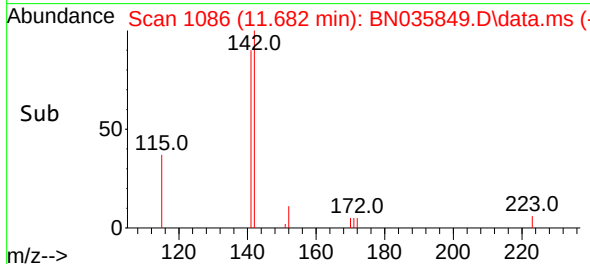


#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

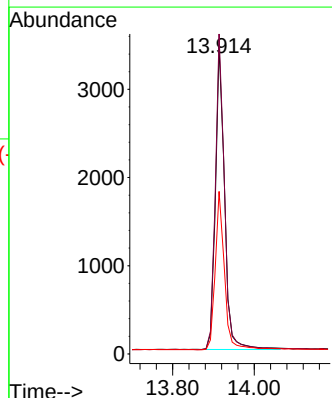
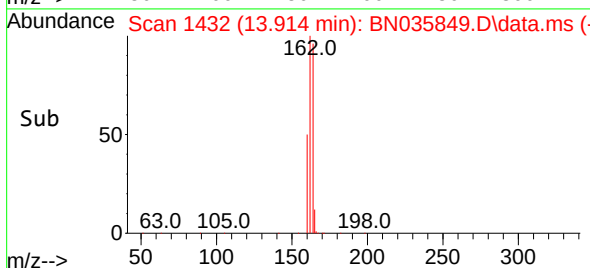
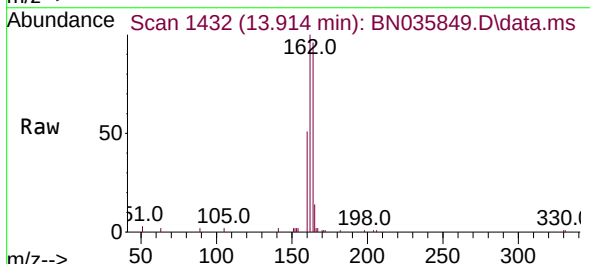


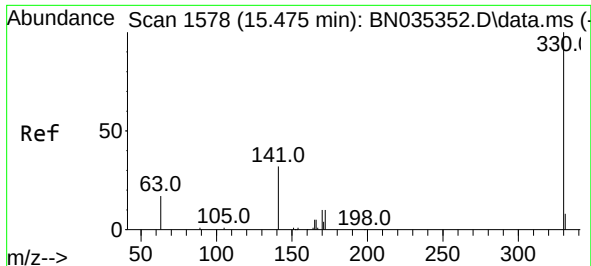
Tgt Ion:142 Resp: 2490
Ion Ratio Lower Upper
142 100
141 90.8 72.2 108.4
115 42.8 31.4 47.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

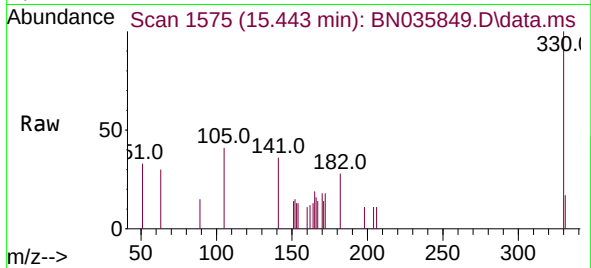
Tgt Ion:164 Resp: 5358
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 52.9 40.1 60.1



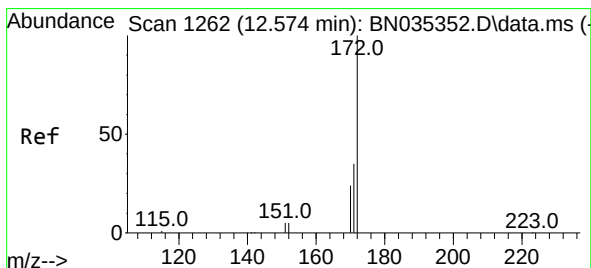
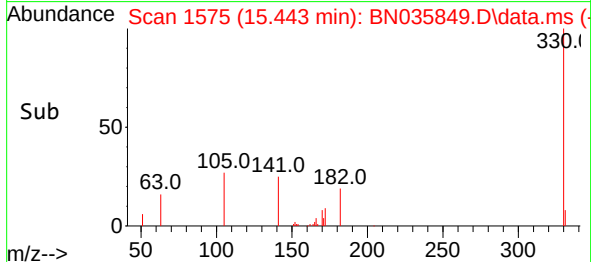
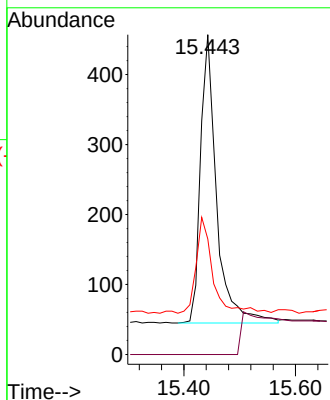


#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

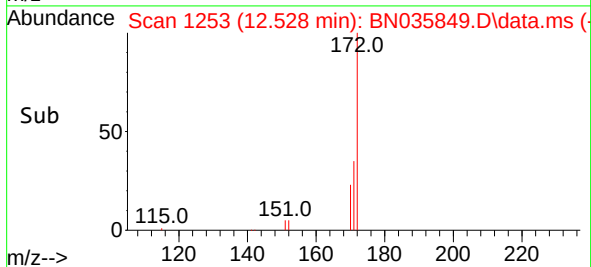
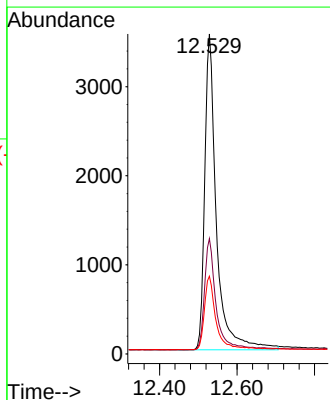
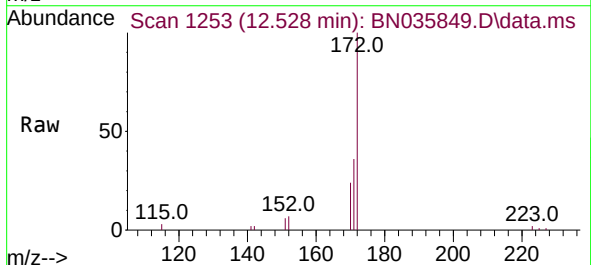


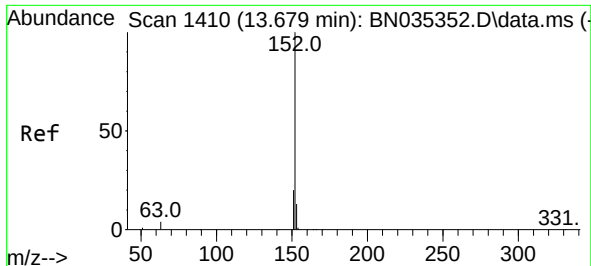
Tgt Ion:330 Resp: 860
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.0 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:172 Resp: 7437
Ion Ratio Lower Upper
172 100
171 36.0 29.0 43.4
170 24.3 19.8 29.8

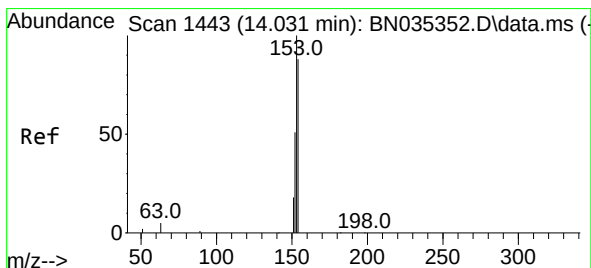
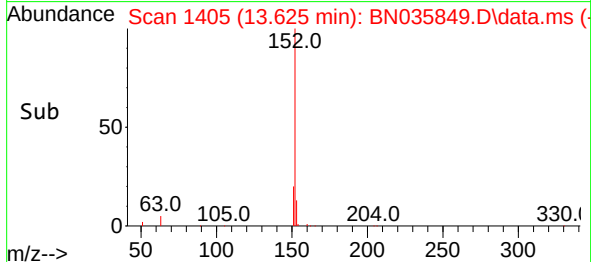
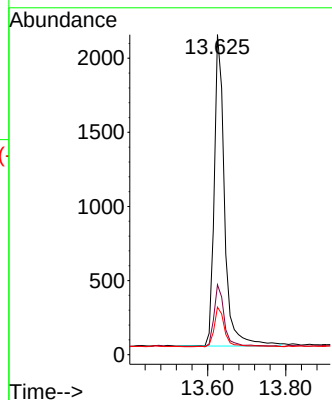
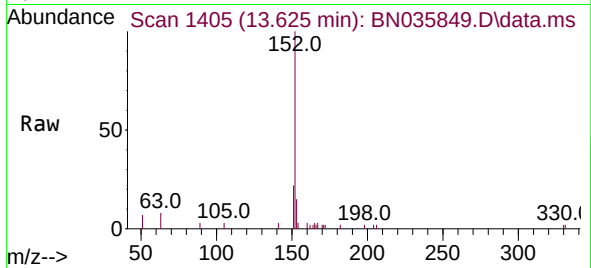




#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

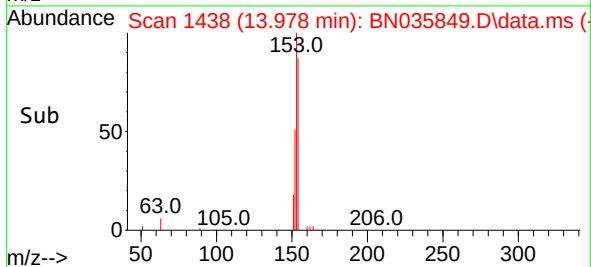
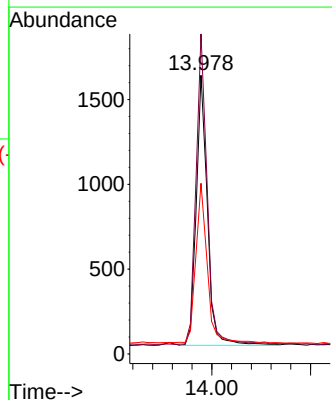
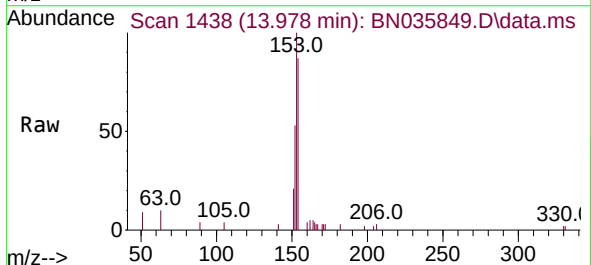
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

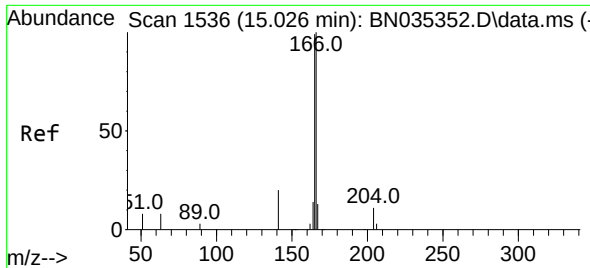
Tgt Ion:	152	Resp:	3867
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.2	24.2
153	12.9	10.4	15.6



#17
Acenaphthene
Concen: 0.167 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:	154	Resp:	2493
Ion Ratio	Lower	Upper	
154	100		
153	114.9	92.6	139.0
152	59.9	49.0	73.6

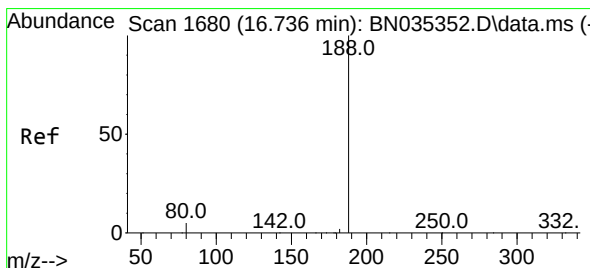
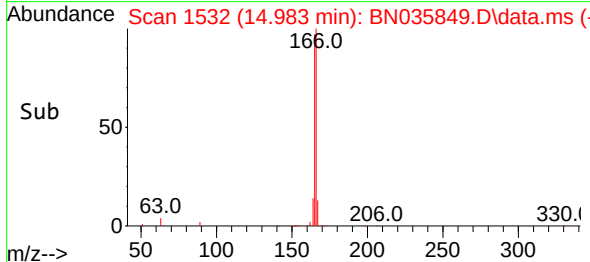
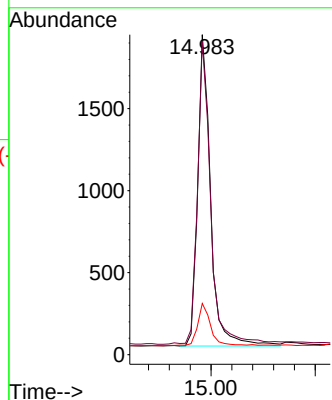
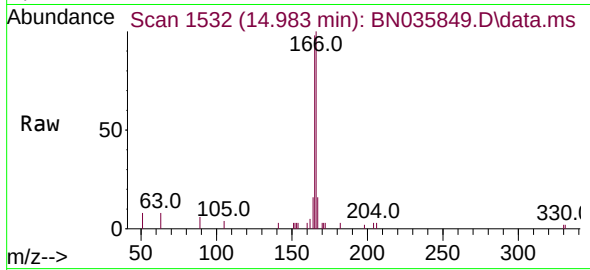




#18
 Fluorene
 Concen: 0.154 ng
 RT: 14.983 min Scan# 11
 Delta R.T. -0.021 min
 Lab File: BN035849.D
 Acq: 26 Dec 2024 12:31

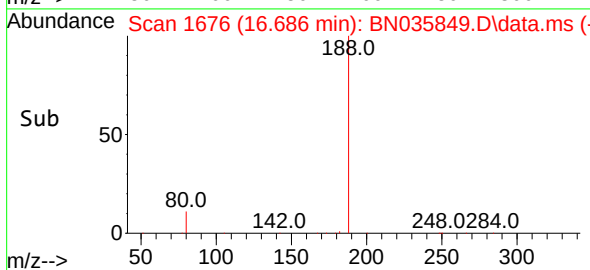
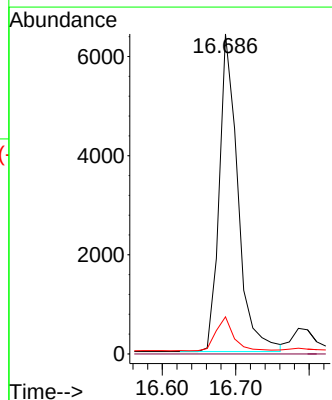
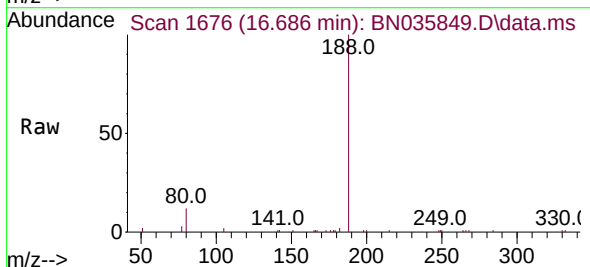
Instrument :
 BNA_N
 ClientSampleId :
 TT205S1-20241218

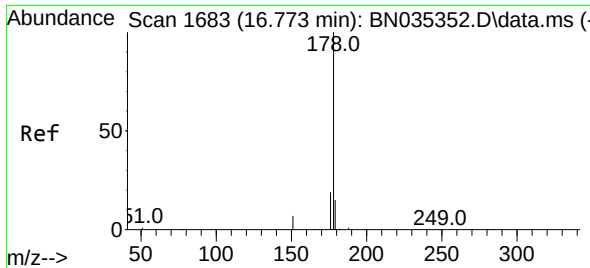
Tgt Ion:166 Resp: 3286
 Ion Ratio Lower Upper
 166 100
 165 98.7 79.7 119.5
 167 13.9 10.8 16.2



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.686 min Scan# 1676
 Delta R.T. -0.012 min
 Lab File: BN035849.D
 Acq: 26 Dec 2024 12:31

Tgt Ion:188 Resp: 11302
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 11.6 4.6 6.8#

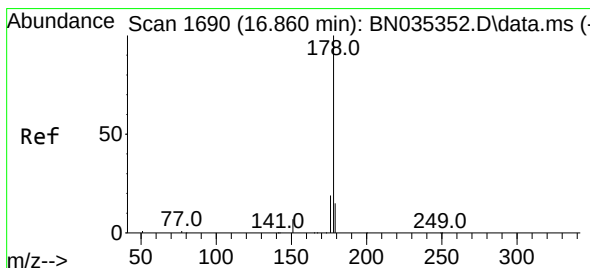
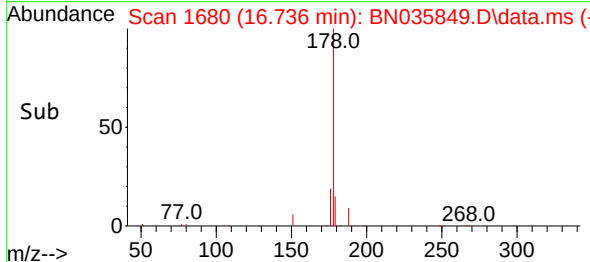
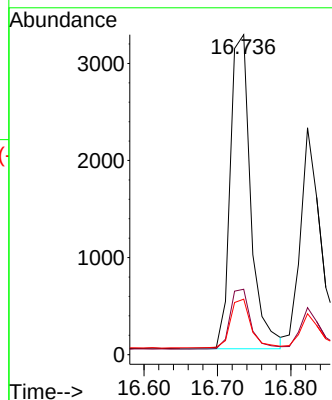
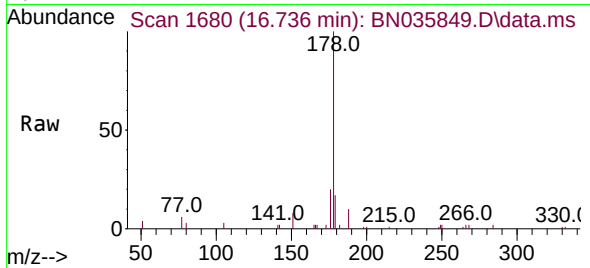




#25
Phenanthrene
Concen: 0.203 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

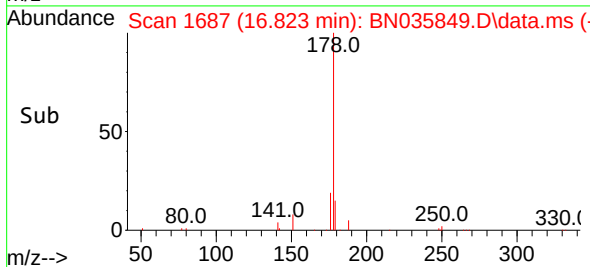
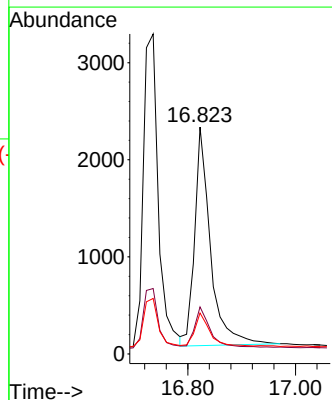
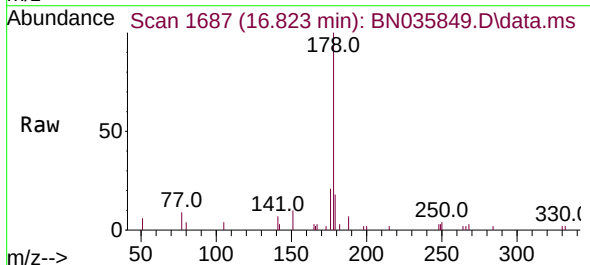
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

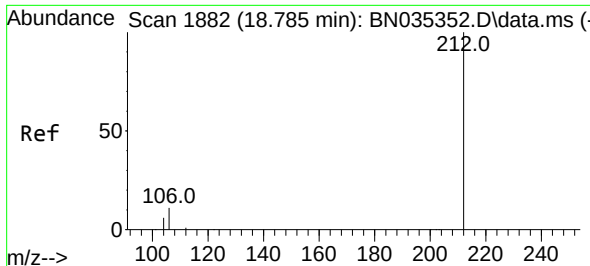
Tgt Ion:178 Resp: 6290
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.9 12.3 18.5



#26
Anthracene
Concen: 0.164 ng
RT: 16.823 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 4610
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 14.3 12.6 18.8

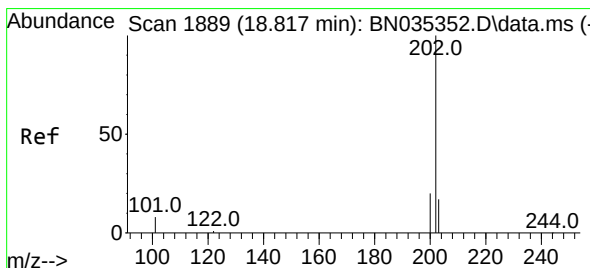
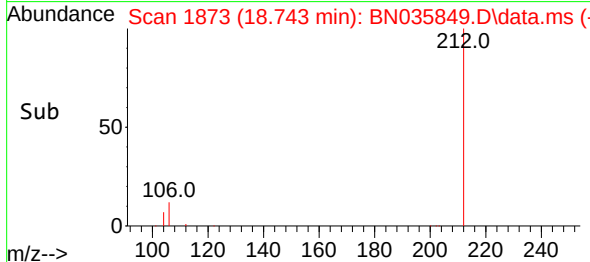
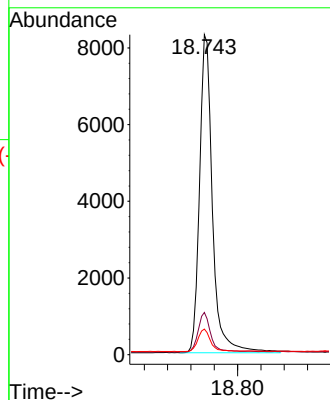
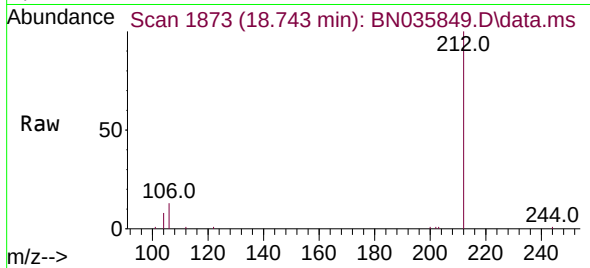




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.743 min Scan# 1873
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

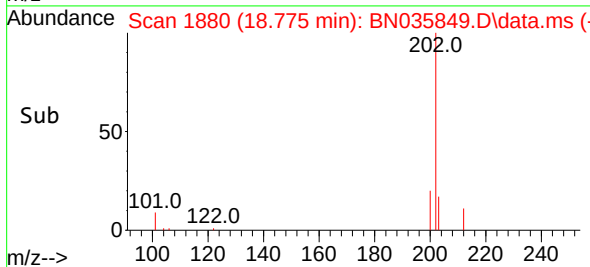
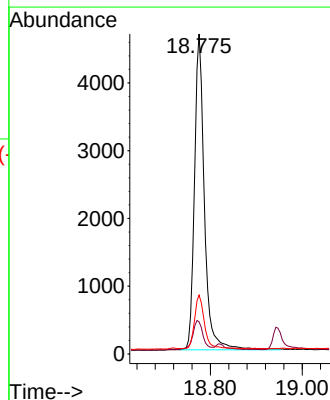
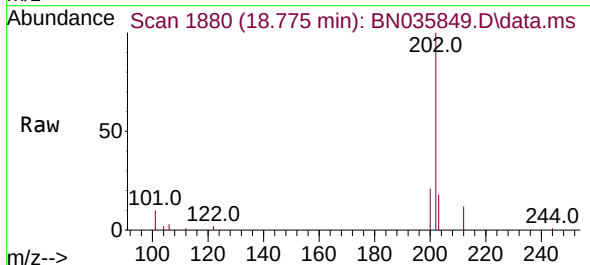
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

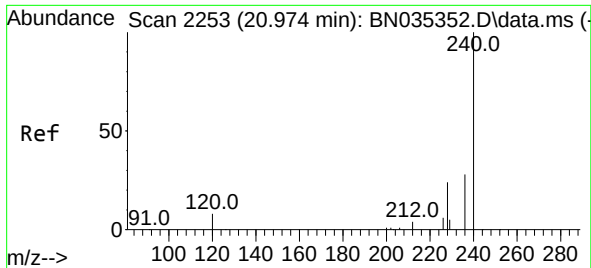
Tgt Ion:212 Resp: 12788
Ion Ratio Lower Upper
212 100
106 11.9 9.2 13.8
104 6.8 5.3 7.9



#28
Fluoranthene
Concen: 0.167 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 6981
Ion Ratio Lower Upper
202 100
101 9.6 7.4 11.0
203 16.7 13.7 20.5

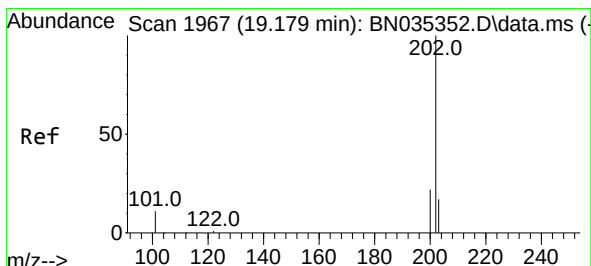
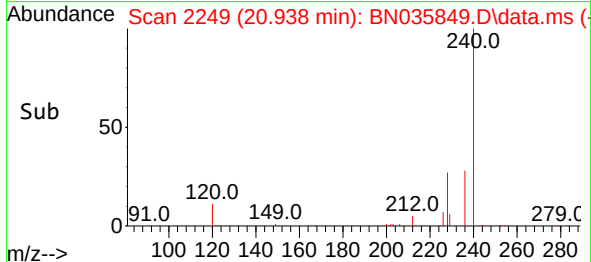
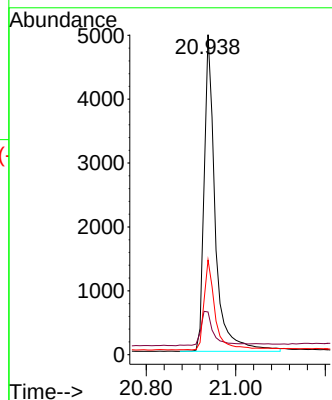
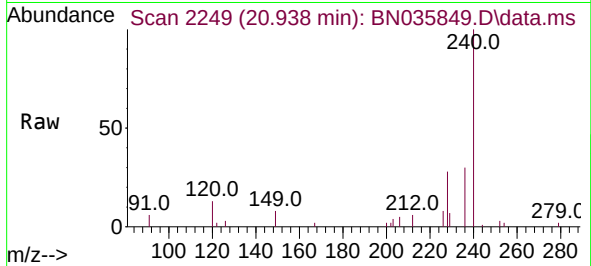




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

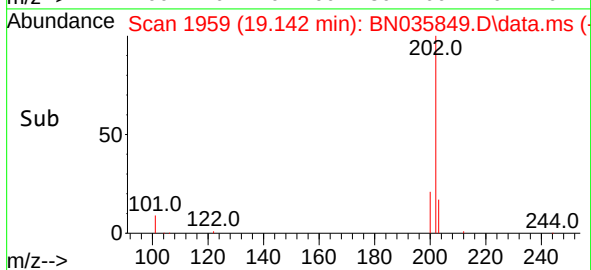
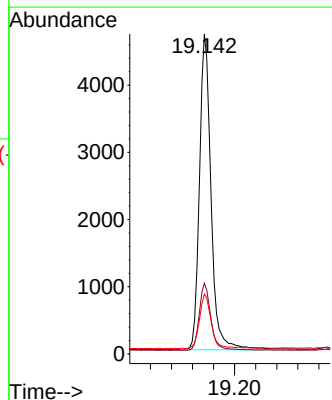
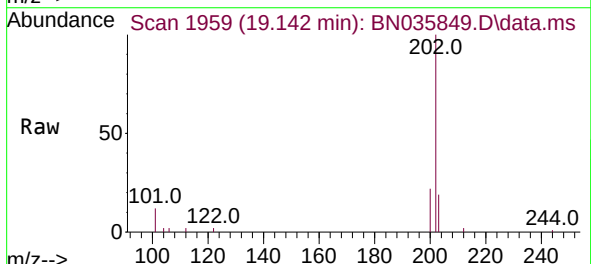
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

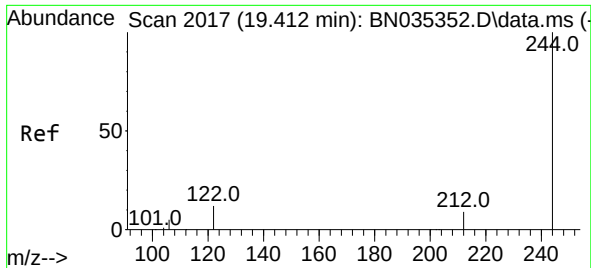
Tgt Ion:240 Resp: 8549
Ion Ratio Lower Upper
240 100
120 13.3 7.9 11.9#
236 29.6 22.9 34.3



#30
Pyrene
Concen: 0.228 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

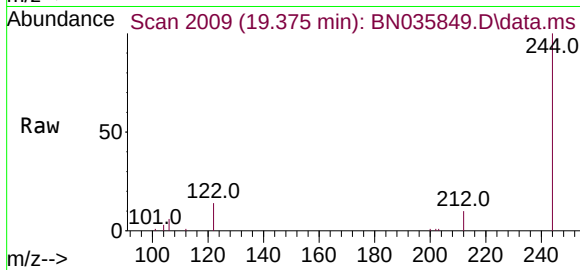
Tgt Ion:202 Resp: 7191
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.4 14.3 21.5



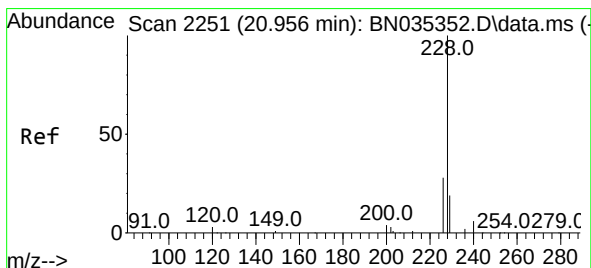
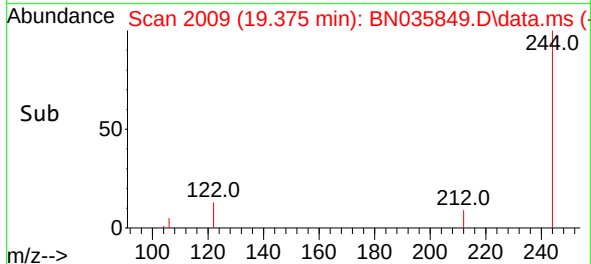
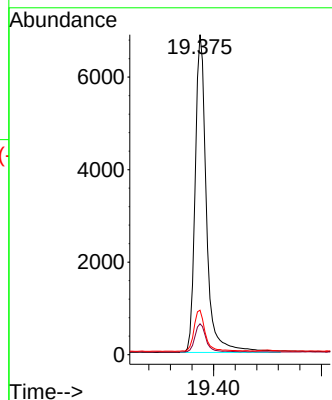


#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.375 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

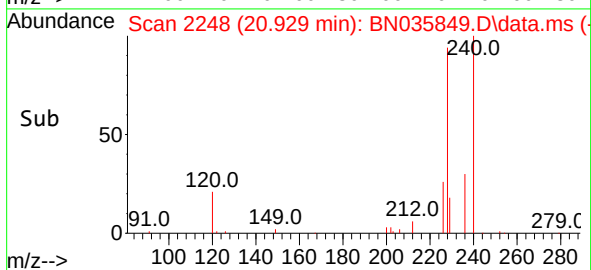
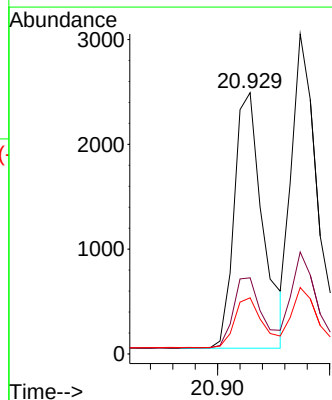
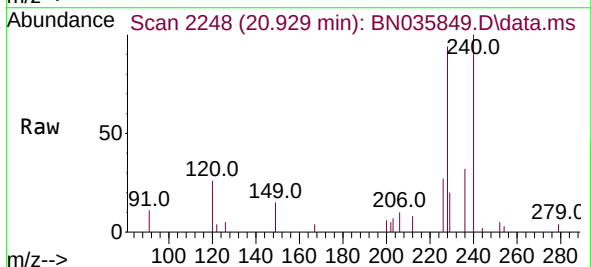


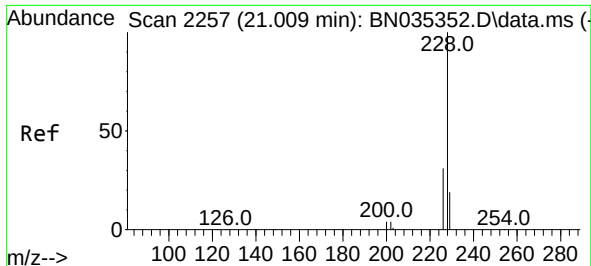
Tgt Ion:244 Resp: 9994
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 13.9 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.145 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 4336
Ion Ratio Lower Upper
228 100
226 29.1 22.5 33.7
229 21.5 15.8 23.8

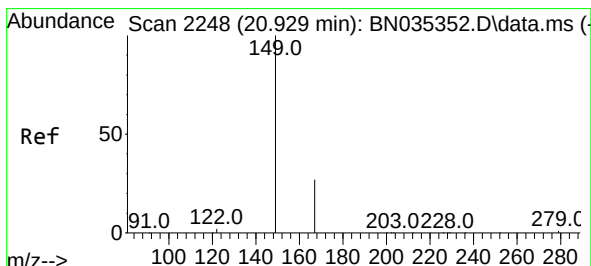
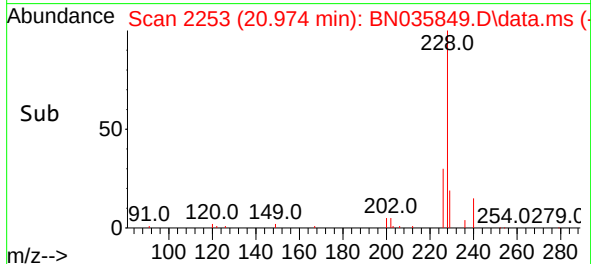
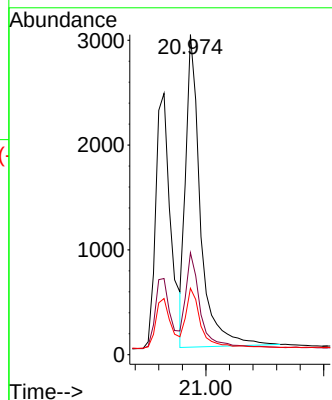
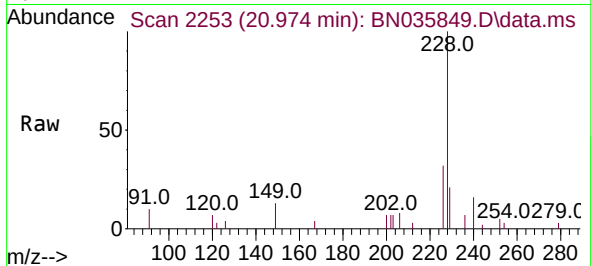




#33
Chrysene
Concen: 0.167 ng
RT: 20.974 min Scan# 2100
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

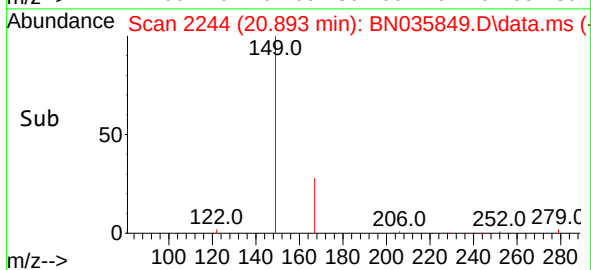
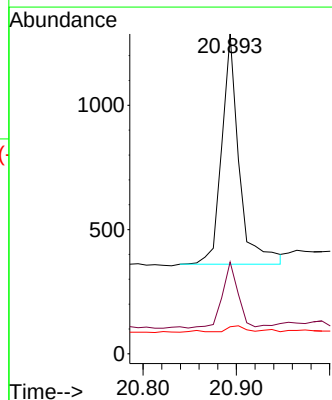
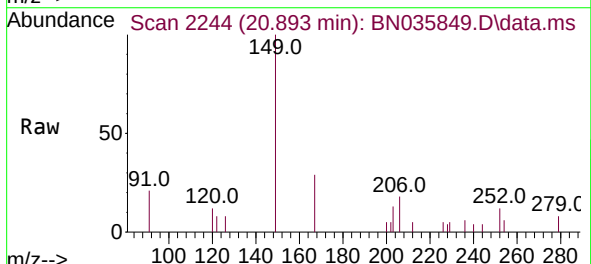
Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

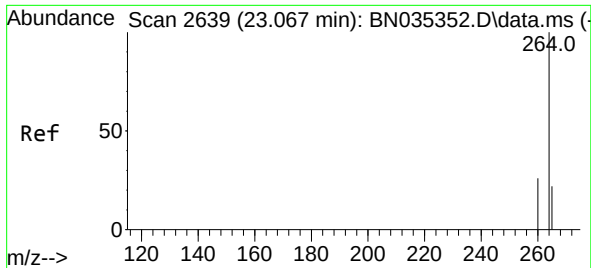
Tgt Ion:228 Resp: 5151
Ion Ratio Lower Upper
228 100
226 31.9 24.6 37.0
229 20.7 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

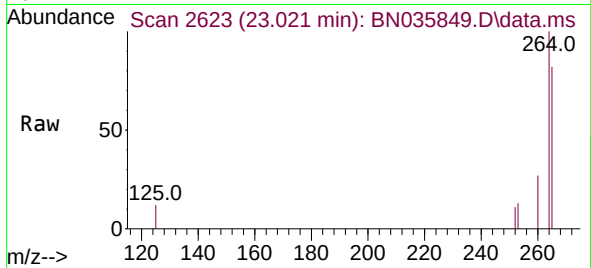
Tgt Ion:149 Resp: 1190
Ion Ratio Lower Upper
149 100
167 25.9 22.2 33.4
279 2.4 2.7 4.1#



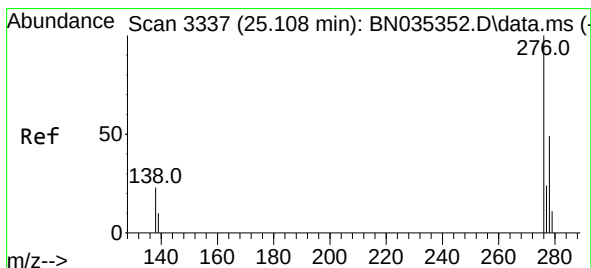
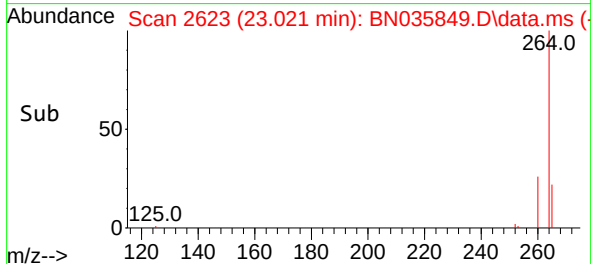
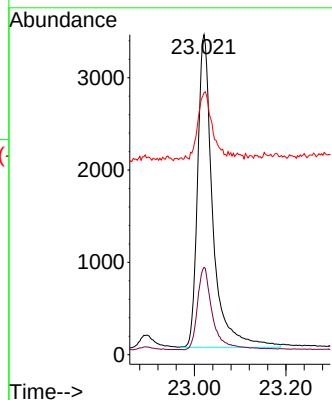


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2623
Delta R.T. -0.020 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

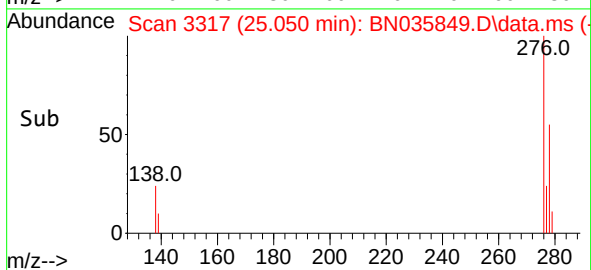
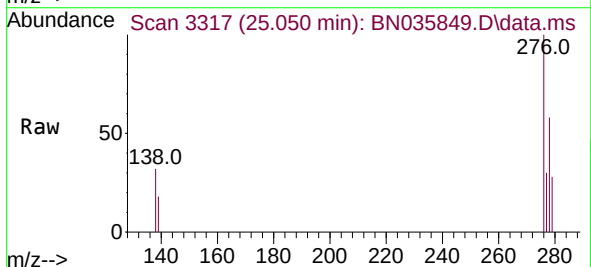
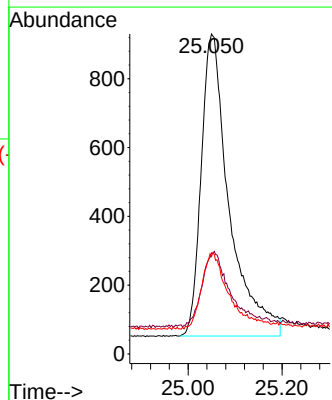


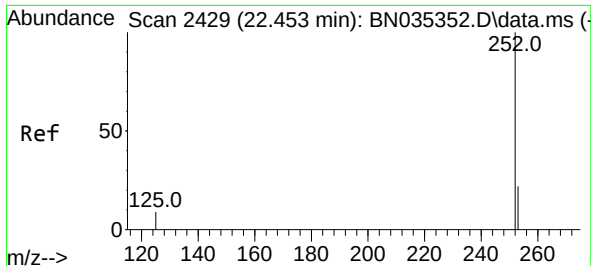
Tgt Ion:264 Resp: 7798
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 81.9 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.119 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 3640
Ion Ratio Lower Upper
276 100
138 24.8 19.4 29.0
277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.192 ng

RT: 22.413 min Scan# 2415

Delta R.T. -0.018 min

Lab File: BN035849.D

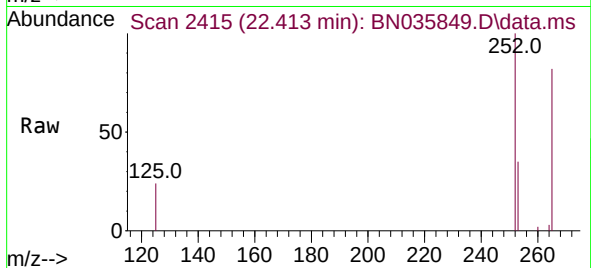
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



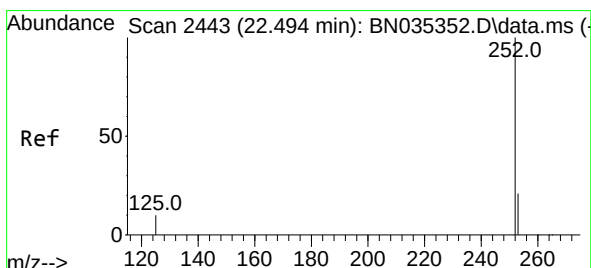
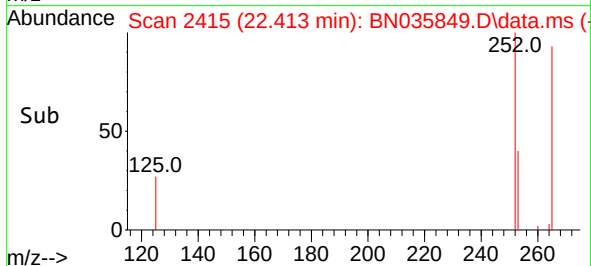
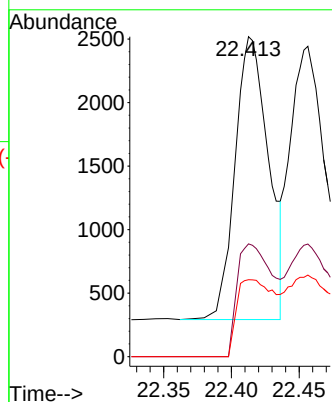
Tgt Ion:252 Resp: 5477

Ion Ratio Lower Upper

252 100

253 35.3 19.6 29.4#

125 24.1 9.6 14.4#



#38

Benzo(k)fluoranthene

Concen: 0.148 ng

RT: 22.456 min Scan# 2430

Delta R.T. -0.015 min

Lab File: BN035849.D

Acq: 26 Dec 2024 12:31

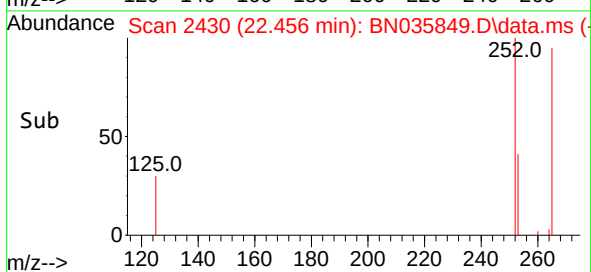
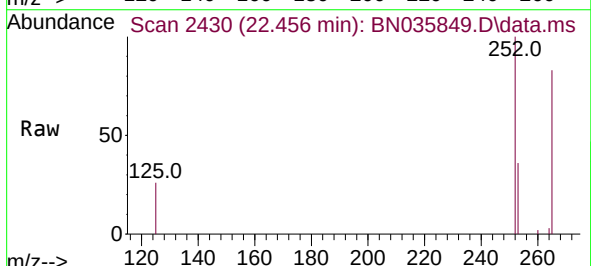
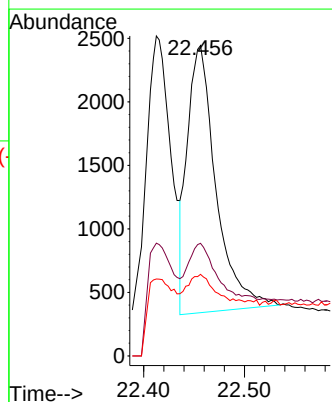
Tgt Ion:252 Resp: 4164

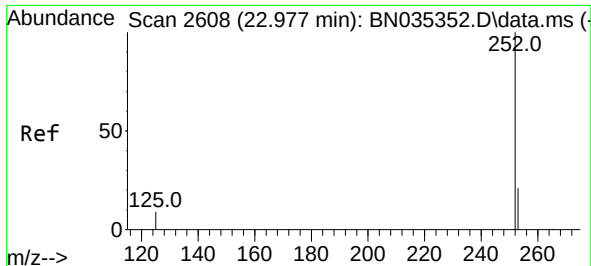
Ion Ratio Lower Upper

252 100

253 36.3 19.5 29.3#

125 26.3 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.121 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035849.D

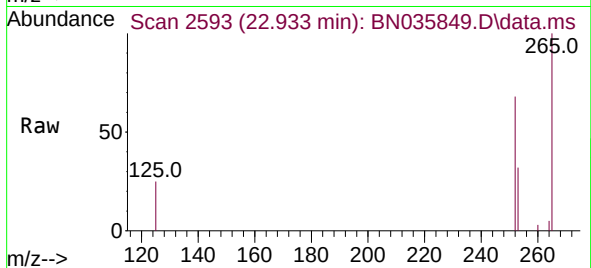
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



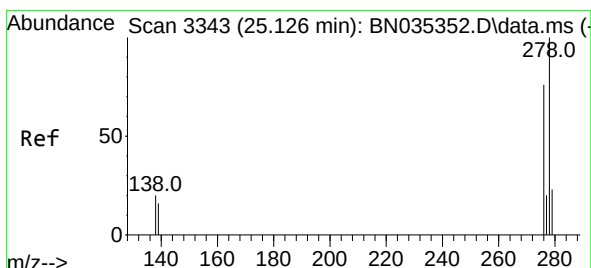
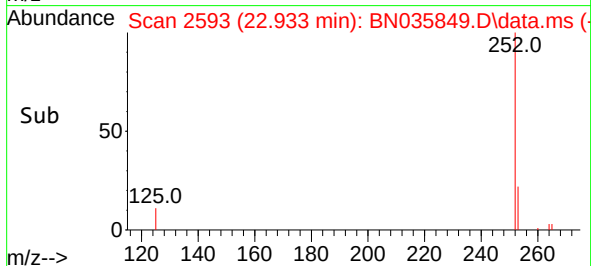
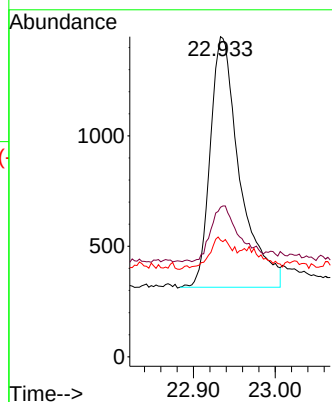
Tgt Ion:252 Resp: 2844

Ion Ratio Lower Upper

252 100

253 46.7 20.2 30.4#

125 36.4 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.118 ng

RT: 25.067 min Scan# 3323

Delta R.T. -0.015 min

Lab File: BN035849.D

Acq: 26 Dec 2024 12:31

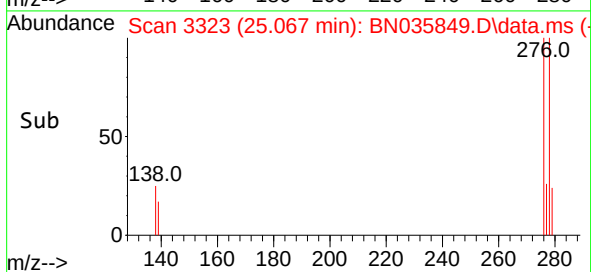
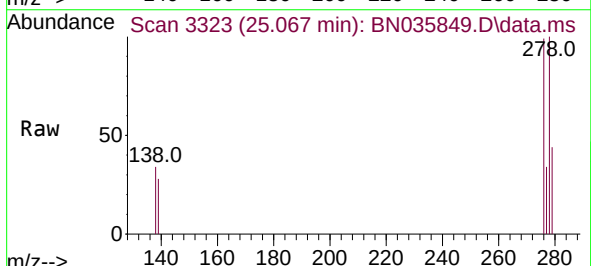
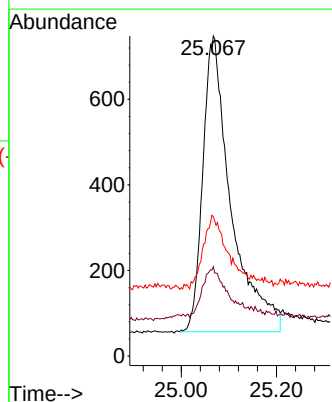
Tgt Ion:278 Resp: 2834

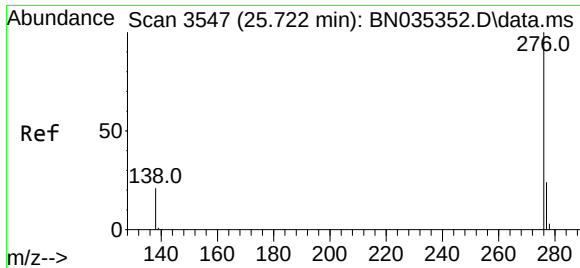
Ion Ratio Lower Upper

278 100

139 27.9 14.2 21.4#

279 43.6 20.5 30.7#





#41

Benzo(g,h,i)perylene

Concen: 0.113 ng

RT: 25.652 min Scan# 31

Delta R.T. -0.026 min

Lab File: BN035849.D

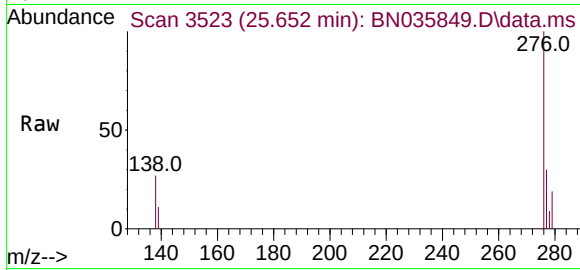
Acq: 26 Dec 2024 12:31

Instrument :

BNA_N

ClientSampleId :

TT205S1-20241218



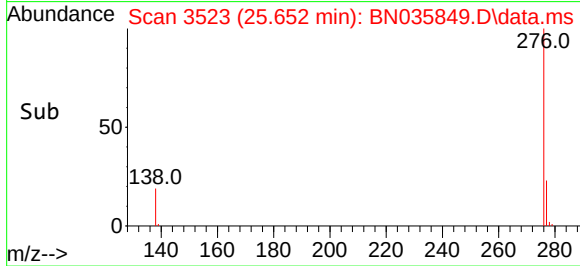
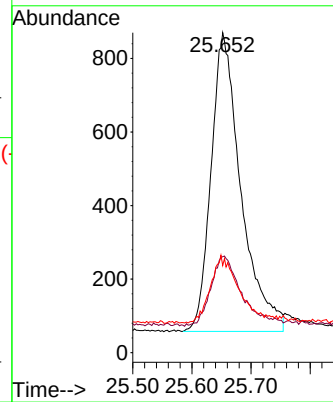
Tgt Ion:276 Resp: 2847

Ion Ratio Lower Upper

276 100

277 30.0 19.9 29.9#

138 27.2 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035852.D
 Acq On : 26 Dec 2024 14:19
 Operator : RC/JU
 Sample : PB165828BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165828BS

Quant Time: Dec 27 00:41:16 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)

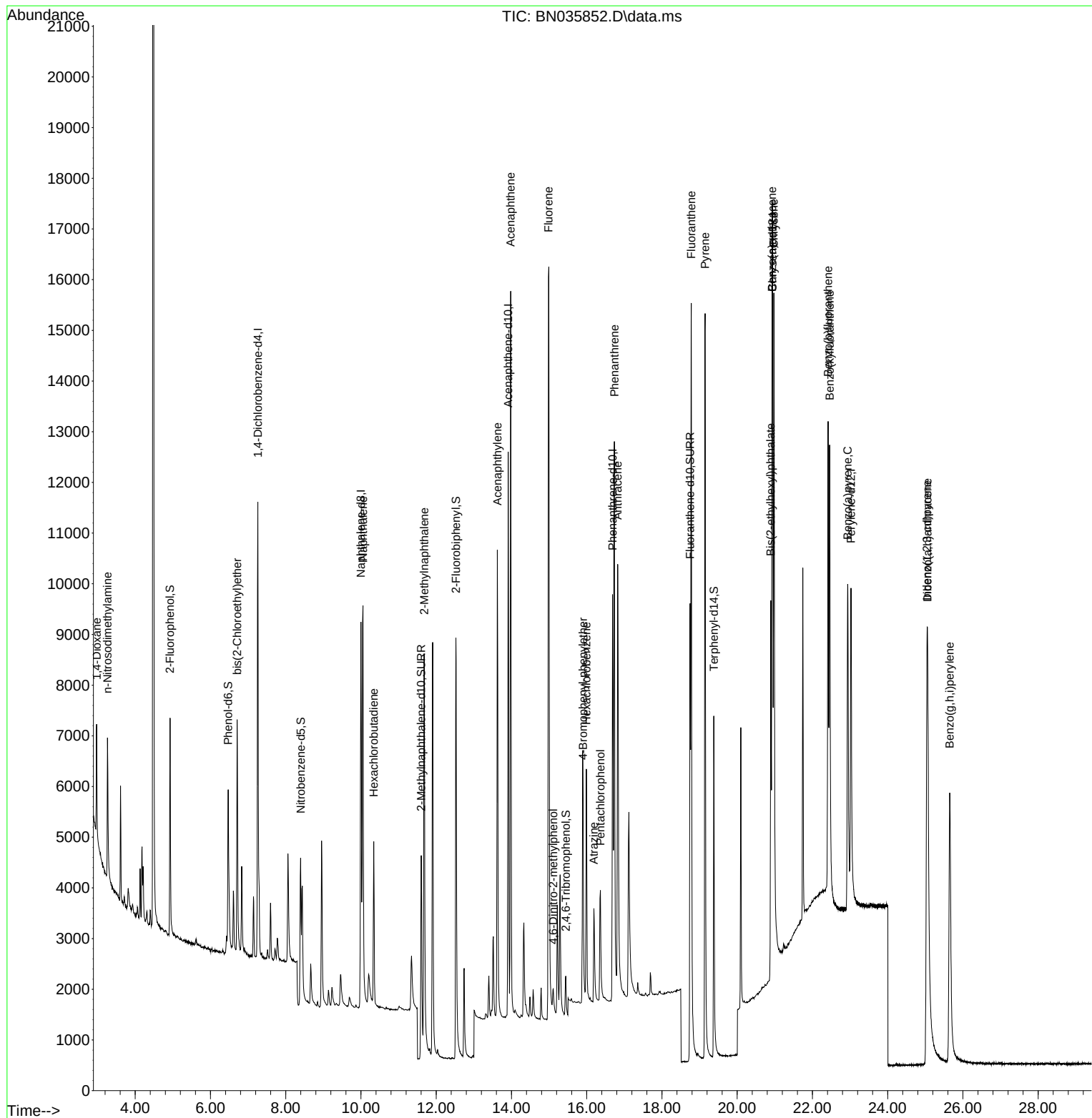
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	4431	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	10905	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	6427	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	13001	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9257	0.400	ng	#-0.02
35) Perylene-d12	23.023	264	9148	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3645	0.329	ng	-0.01
5) Phenol-d6	6.470	99	4024	0.302	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3418	0.513	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	7947	0.466	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	913	0.200	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	9578	0.394	ng	-0.02
27) Fluoranthene-d10	18.747	212	12504	0.339	ng	-0.01
31) Terphenyl-d14	19.379	244	8698	0.476	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1467	0.346	ng	# 88
3) n-Nitrosodimethylamine	3.263	42	1440	0.408	ng	# 88
6) bis(2-Chloroethyl)ether	6.708	93	3983	0.355	ng	99
9) Naphthalene	10.052	128	11935	0.415	ng	99
10) Hexachlorobutadiene	10.340	225	2551	0.385	ng	# 99
12) 2-Methylnaphthalene	11.681	142	7534	0.366	ng	96
16) Acenaphthylene	13.625	152	10983	0.407	ng	100
17) Acenaphthene	13.978	154	6982	0.390	ng	99
18) Fluorene	14.983	166	9056	0.353	ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	645	0.505	ng	92
21) 4-Bromophenyl-phenylether	15.904	248	2685	0.353	ng	97
22) Hexachlorobenzene	15.991	284	3862	0.432	ng	96
23) Atrazine	16.189	200	2110	0.390	ng	96
24) Pentachlorophenol	16.363	266	1614	0.415	ng	# 85
25) Phenanthrene	16.735	178	14161	0.397	ng	100
26) Anthracene	16.822	178	12409	0.384	ng	99
28) Fluoranthene	18.780	202	15692	0.326	ng	99
30) Pyrene	19.147	202	15917	0.466	ng	100
32) Benzo(a)anthracene	20.929	228	11832	0.365	ng	99
33) Chrysene	20.974	228	14241	0.426	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	5313	0.415	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15551	0.435	ng	99
37) Benzo(b)fluoranthene	22.415	252	19434	0.581	ng	# 96
38) Benzo(k)fluoranthene	22.456	252	14469	0.439	ng	95
39) Benzo(a)pyrene	22.936	252	11624	0.422	ng	# 91
40) Dibenzo(a,h)anthracene	25.061	278	11696	0.414	ng	95
41) Benzo(g,h,i)perylene	25.649	276	12710	0.431	ng	98

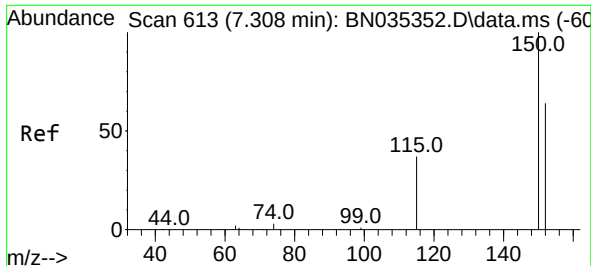
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BS

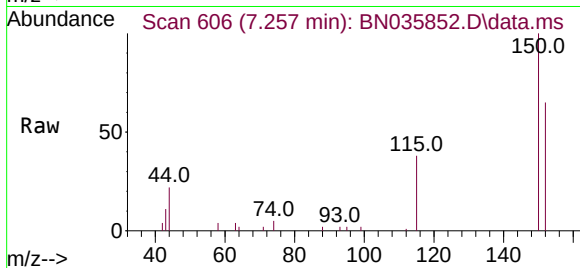
Quant Time: Dec 27 00:41:16 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



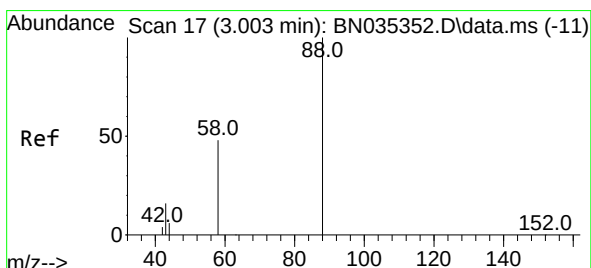
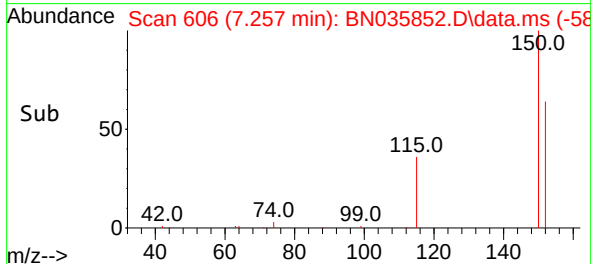
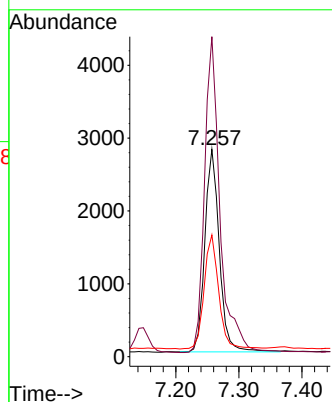


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

Instrument :
 BNA_N
 ClientSampleId :
 PB165828BS

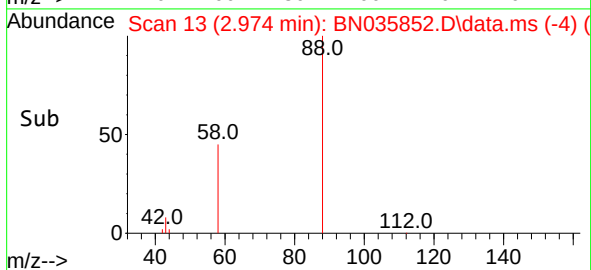
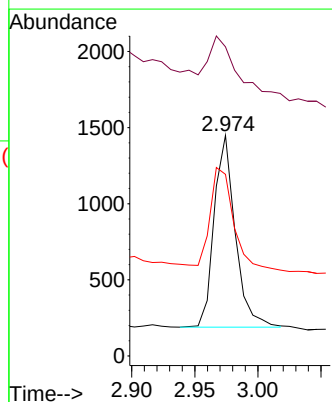
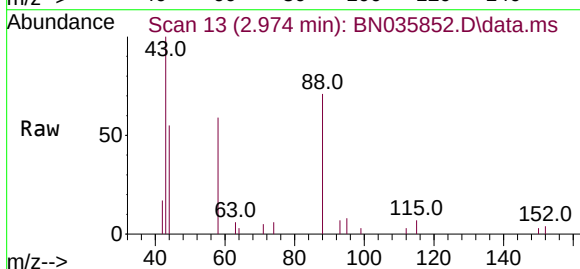


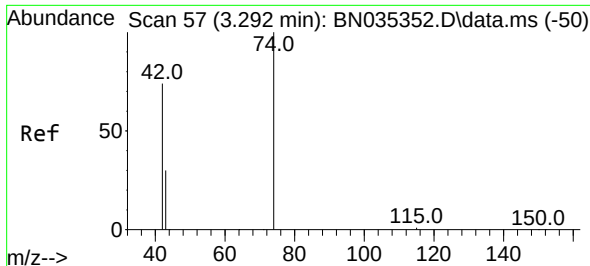
Tgt Ion:152 Resp: 4431
 Ion Ratio Lower Upper
 152 100
 150 154.4 124.0 186.0
 115 58.7 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.346 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.008 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467
 Ion Ratio Lower Upper
 88 100
 43 35.7 17.2 25.8#
 58 59.5 44.5 66.7

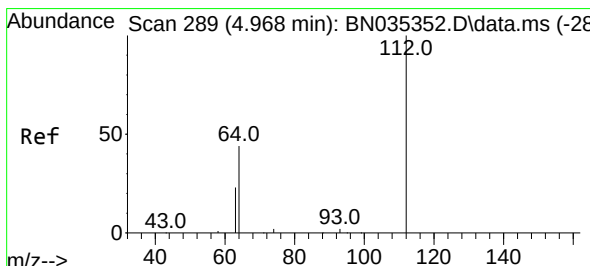
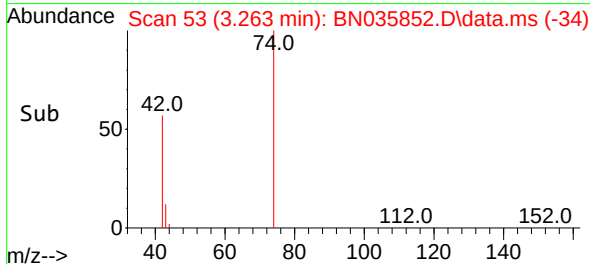
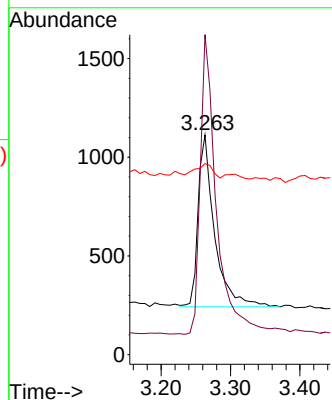
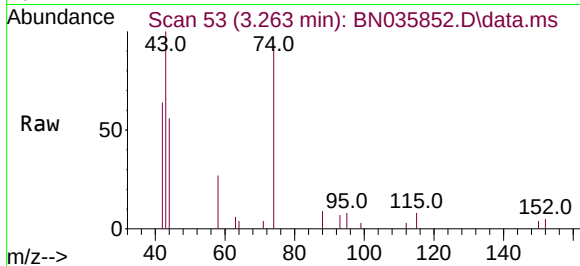




#3
 n-Nitrosodimethylamine
 Concen: 0.408 ng
 RT: 3.263 min Scan# 51
 Delta R.T. -0.015 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

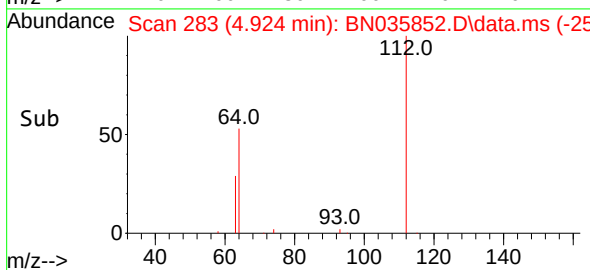
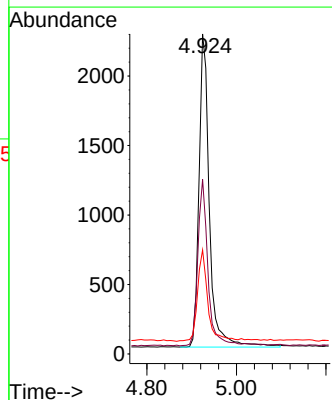
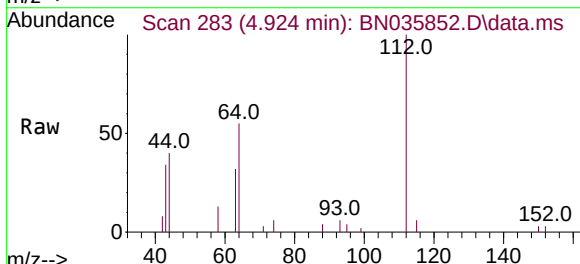
Instrument :
 BNA_N
 ClientSampleId :
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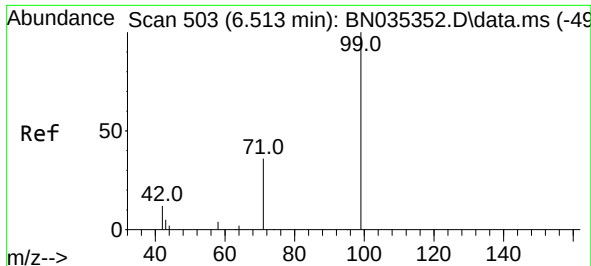
Tgt Ion: 42 Resp: 1440
 Ion Ratio Lower Upper
 42 100
 74 172.0 124.9 187.3
 44 8.5 2.2 3.4#



#4
 2-Fluorophenol
 Concen: 0.329 ng
 RT: 4.924 min Scan# 283
 Delta R.T. -0.015 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

Tgt Ion: 112 Resp: 3645
 Ion Ratio Lower Upper
 112 100
 64 51.2 39.8 59.8
 63 28.7 21.0 31.6

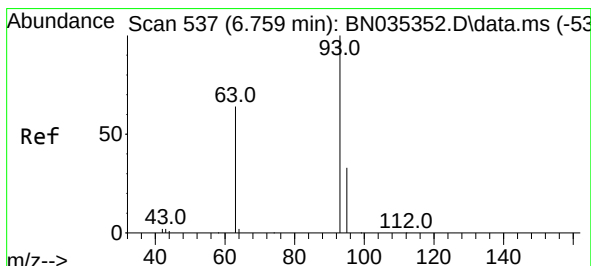
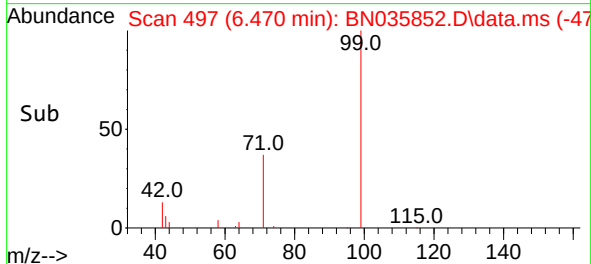
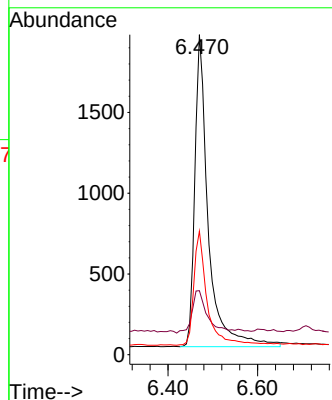
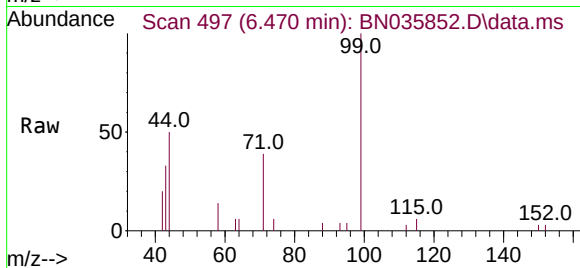




#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

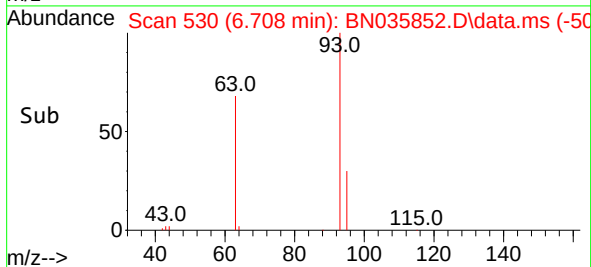
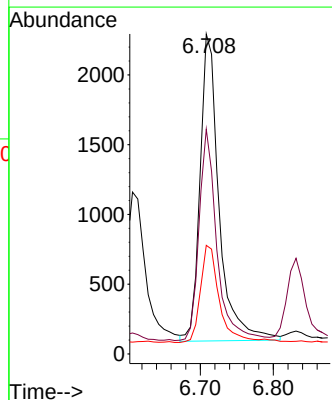
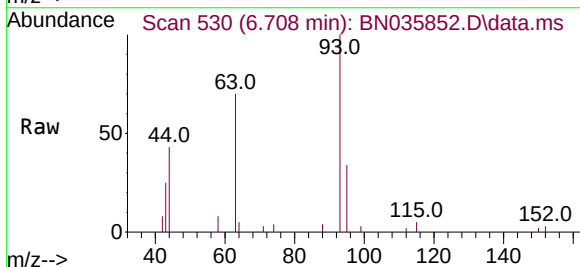
Instrument :
BNA_N
ClientSampleId :
PB165828BS

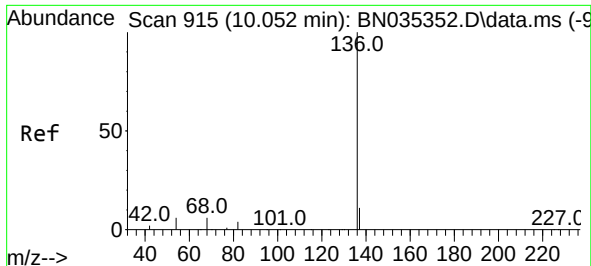
Tgt Ion:	99	Resp:	4024
Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	36.4	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:	93	Resp:	3983
Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	32.1	25.7	38.5

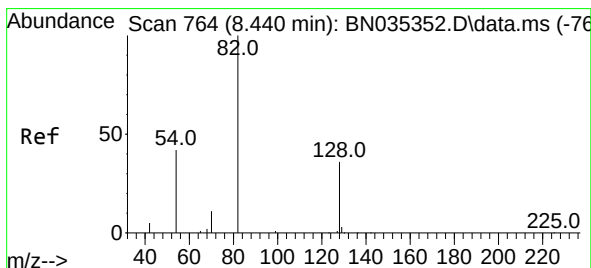
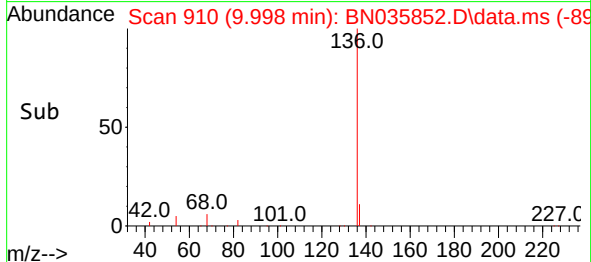
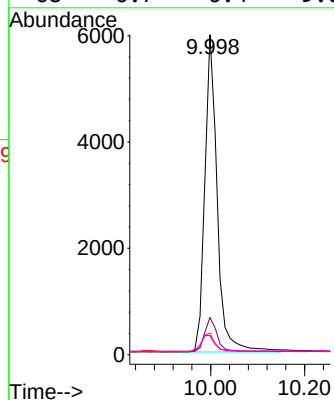
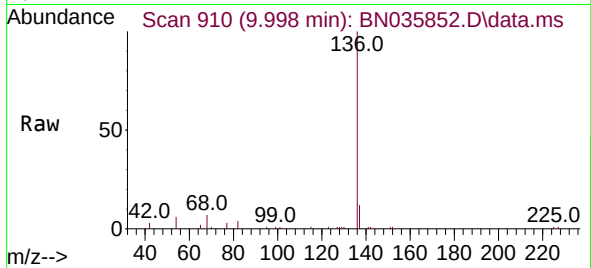




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

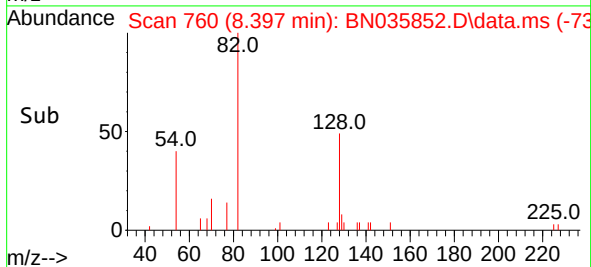
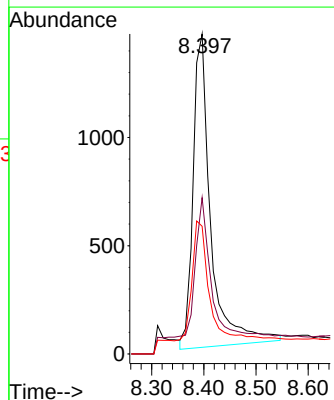
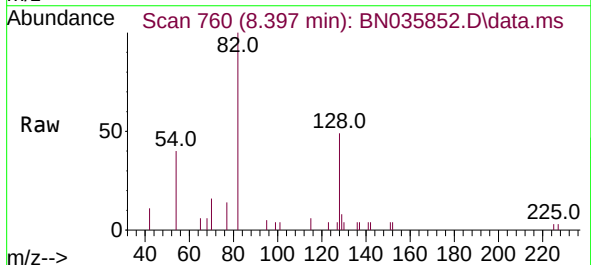
Instrument :
BNA_N
ClientSampleId :
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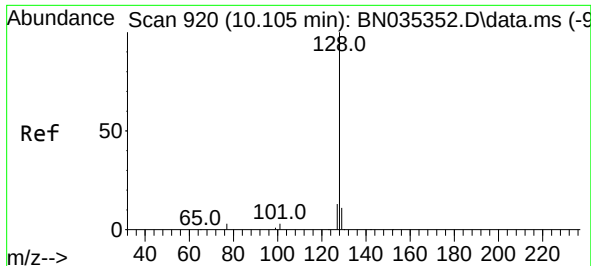
Tgt Ion:	136	Resp:	10905
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.9	6.1	9.1
68	6.7	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.513 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:	82	Resp:	3418
Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	39.9	36.7	55.1

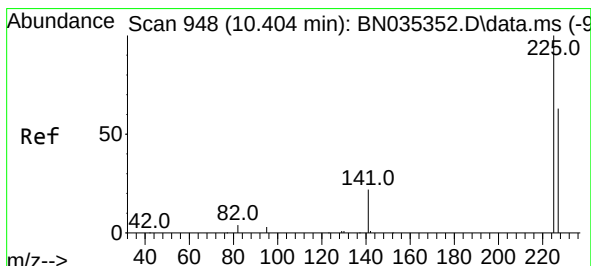
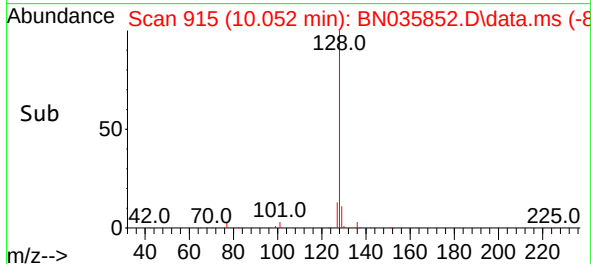
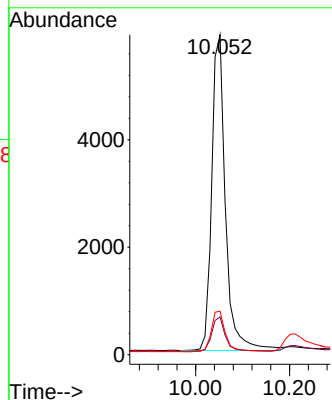
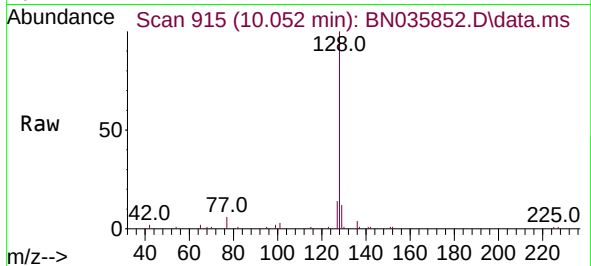




#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

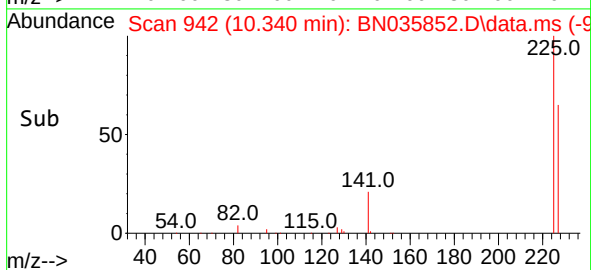
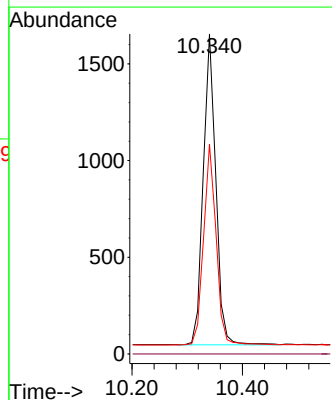
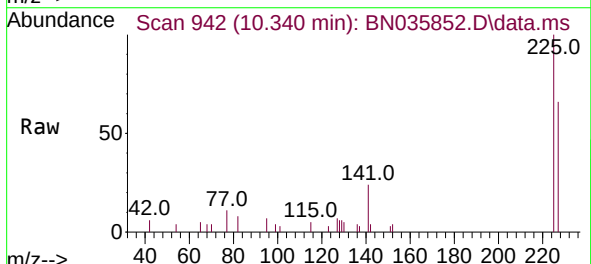
Instrument :
BNA_N
ClientSampleId :
PB165828BS

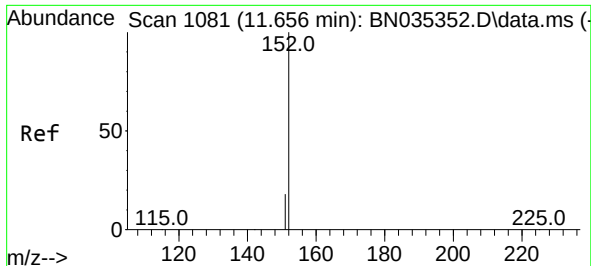
Tgt Ion:128 Resp: 11935
Ion Ratio Lower Upper
128 100
129 11.8 9.8 14.6
127 13.6 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:225 Resp: 2551
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 51.3 76.9

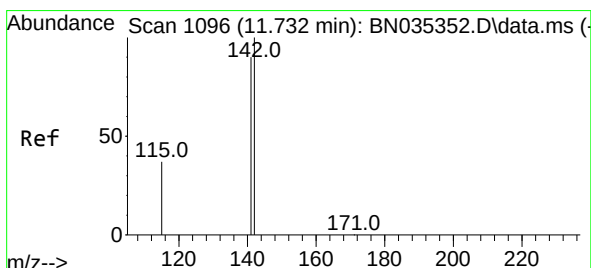
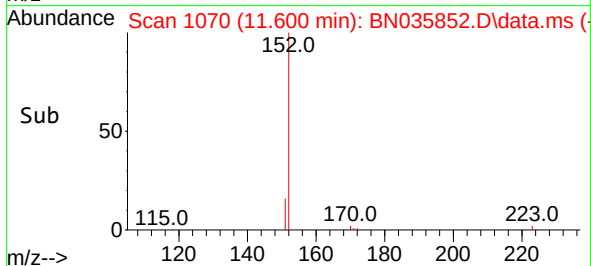
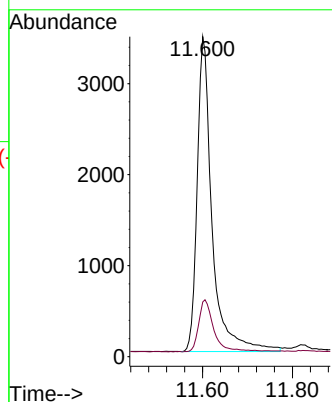
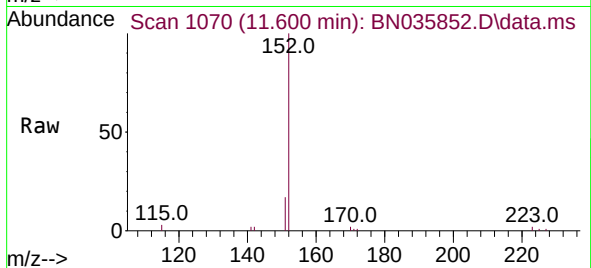




#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

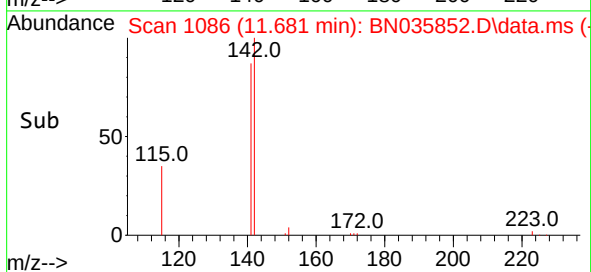
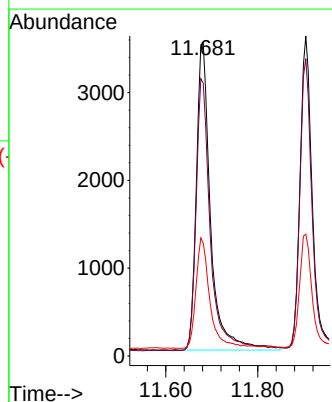
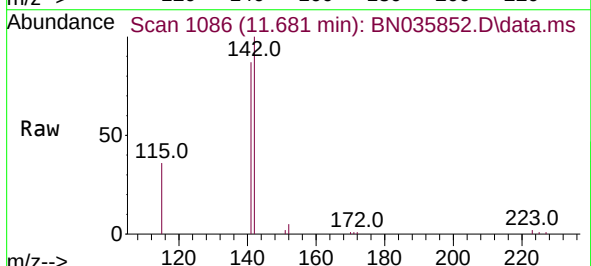
Instrument :
BNA_N
ClientSampleId :
PB165828BS

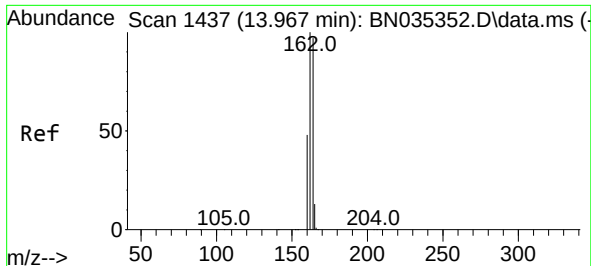
Tgt Ion:152 Resp: 7947
Ion Ratio Lower Upper
152 100
151 16.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534
Ion Ratio Lower Upper
142 100
141 87.3 72.2 108.4
115 36.1 31.4 47.0

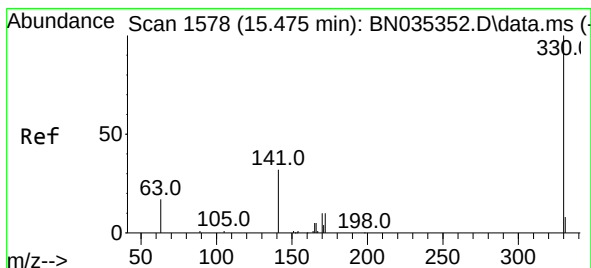
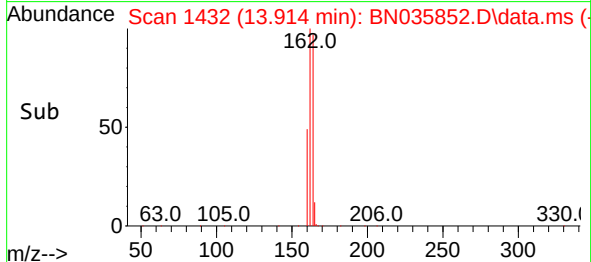
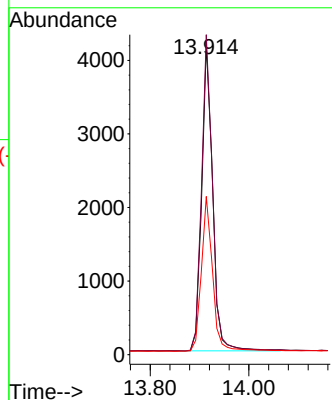
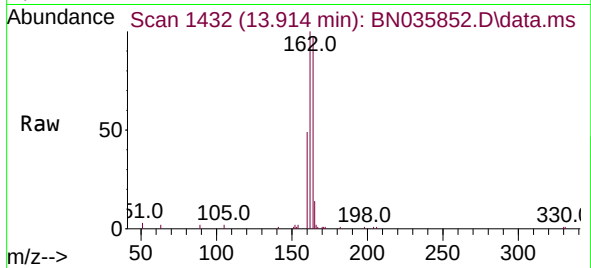




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

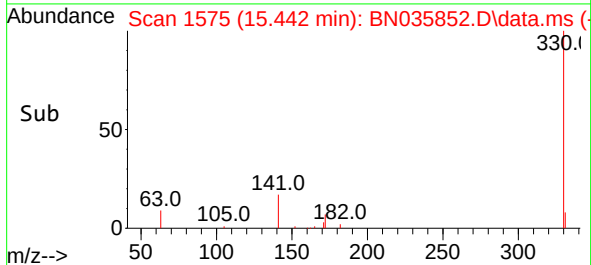
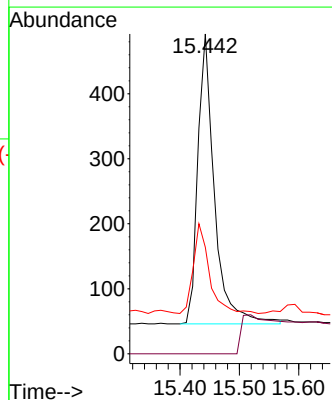
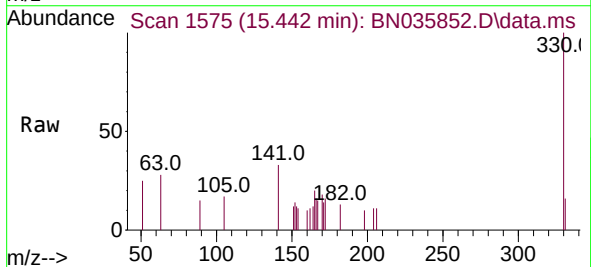
Instrument :
BNA_N
ClientSampleId :
PB165828BS

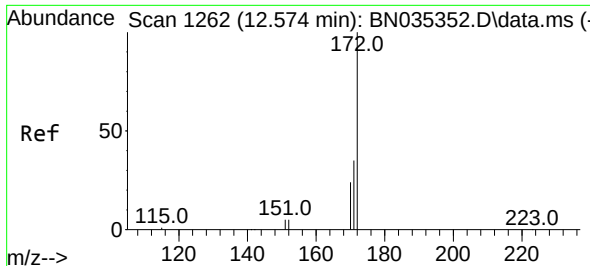
Tgt Ion:164 Resp: 6427
Ion Ratio Lower Upper
164 100
162 103.4 82.2 123.2
160 51.1 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.1 26.6 40.0

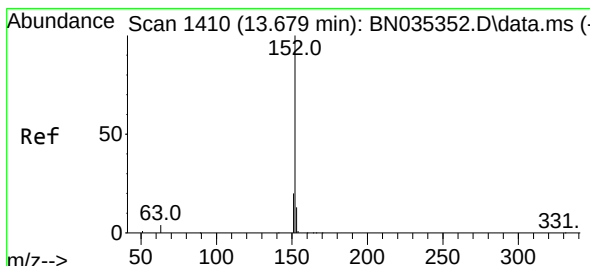
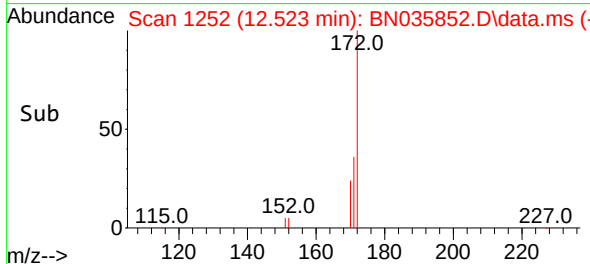
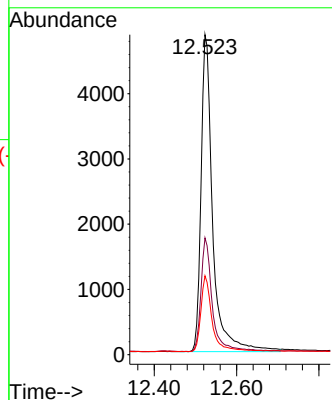
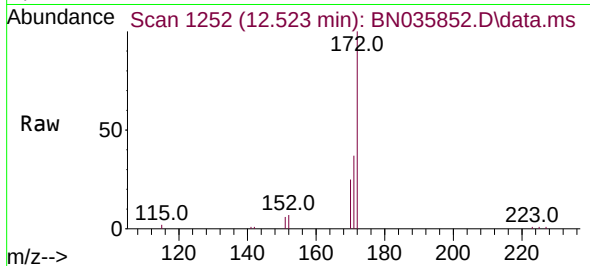




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

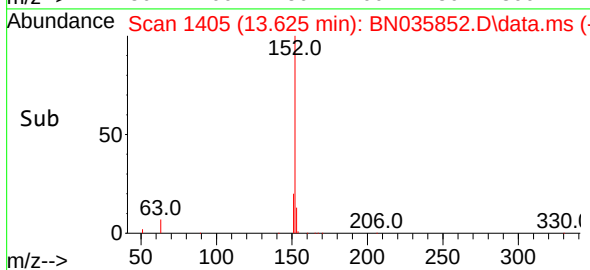
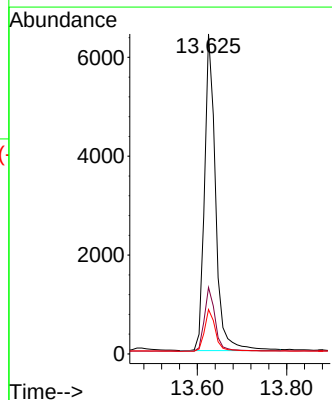
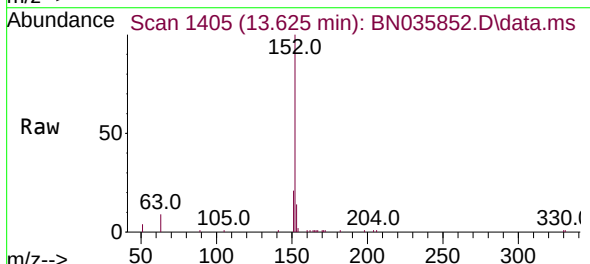
Instrument :
BNA_N
ClientSampleId :
PB165828BS

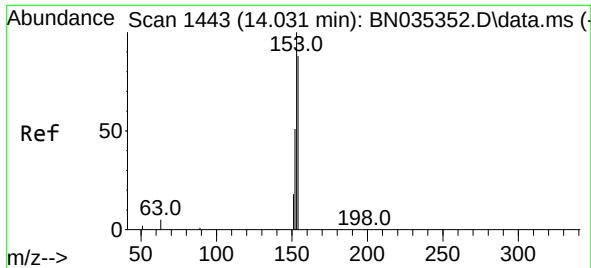
Tgt Ion:	172	Resp:	9578
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.6	19.8	29.8



#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:	152	Resp:	10983
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6

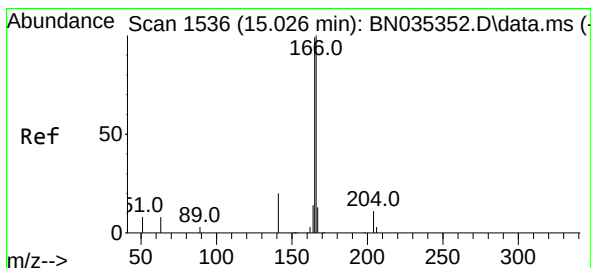
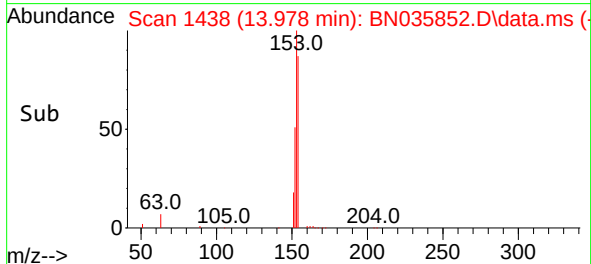
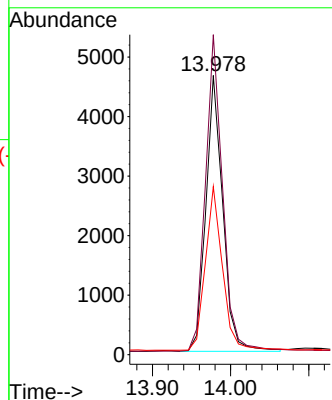
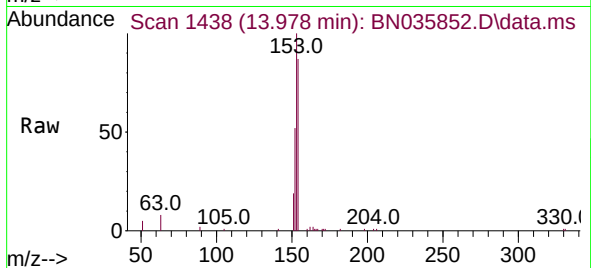




#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

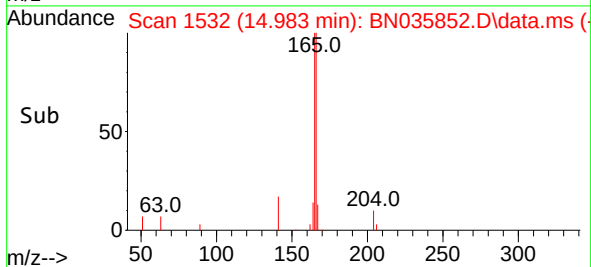
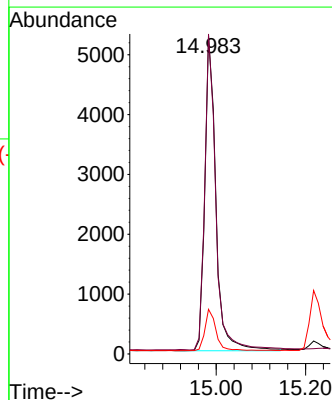
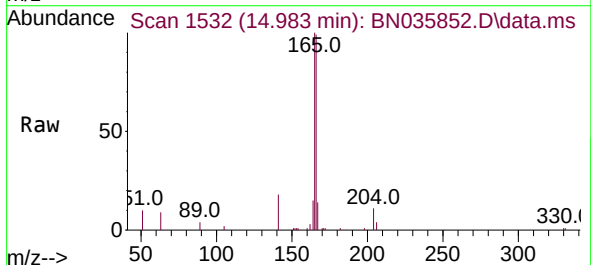
Instrument :
BNA_N
ClientSampleId :
PB165828BS

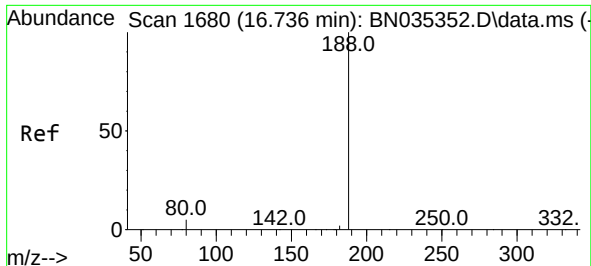
Tgt Ion:154 Resp: 6982
Ion Ratio Lower Upper
154 100
153 117.4 92.6 139.0
152 60.2 49.0 73.6



#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056
Ion Ratio Lower Upper
166 100
165 99.5 79.7 119.5
167 13.2 10.8 16.2

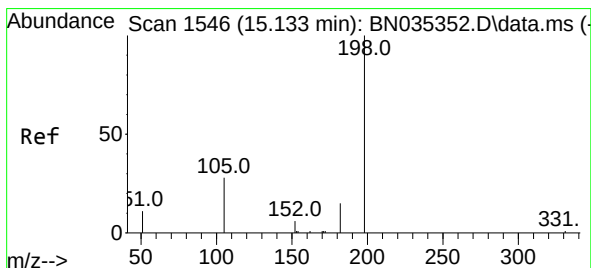
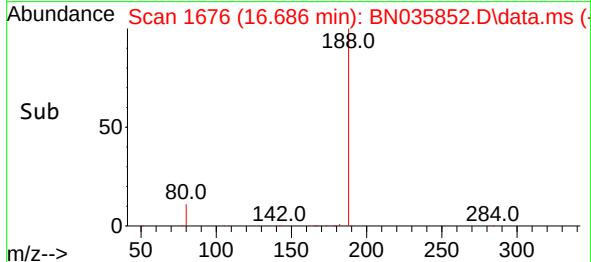
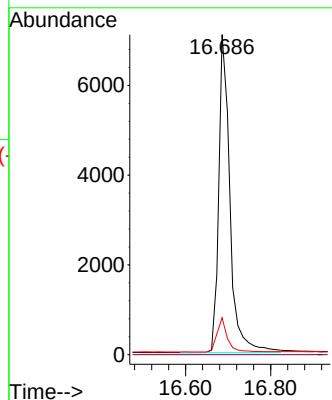
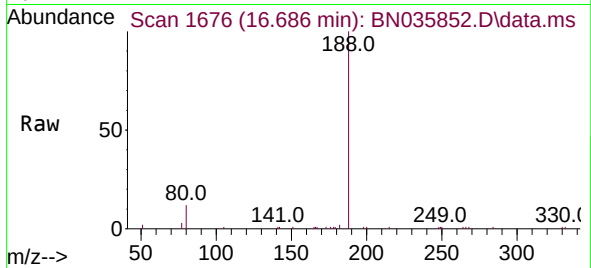




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

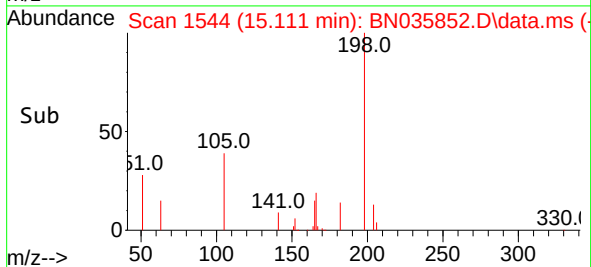
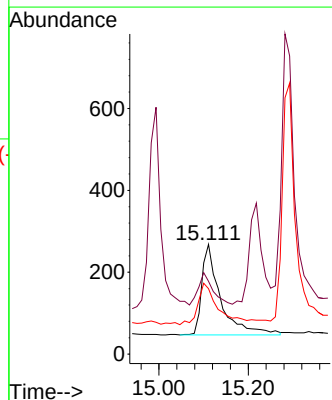
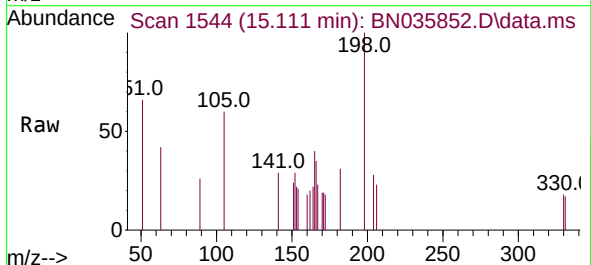
Instrument :
BNA_N
ClientSampleId :
PB165828BS

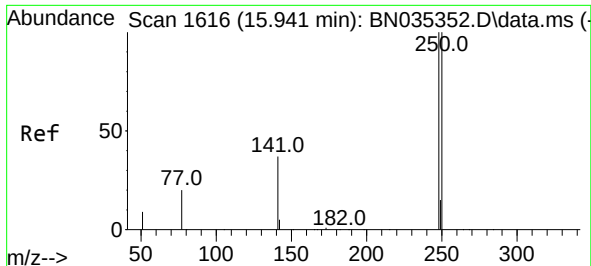
Tgt Ion:188 Resp: 13001
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645
Ion Ratio Lower Upper
198 100
51 66.4 46.5 69.7
105 59.7 45.3 67.9

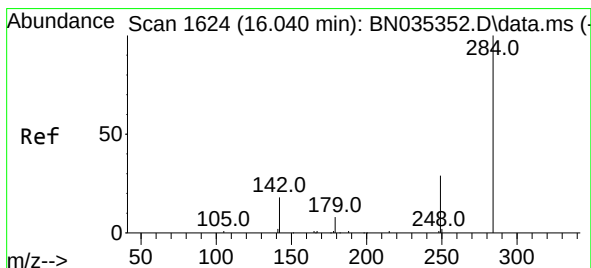
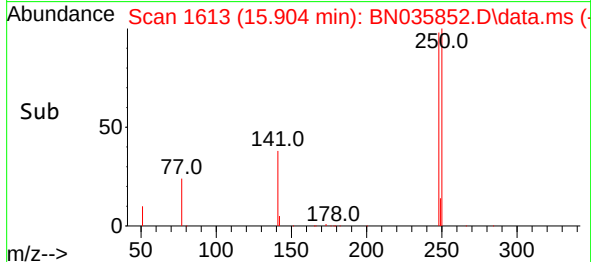
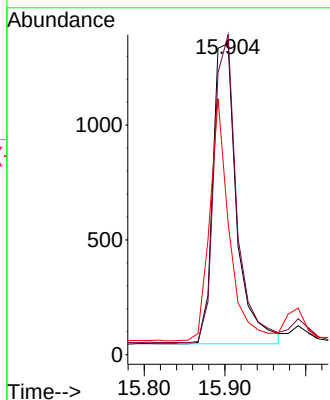
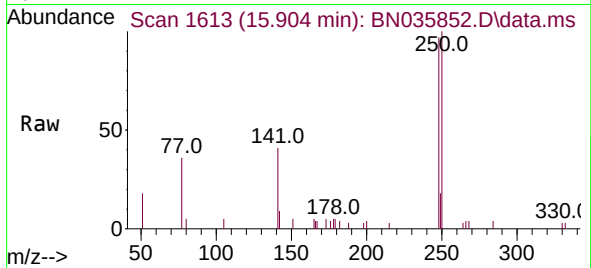




#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

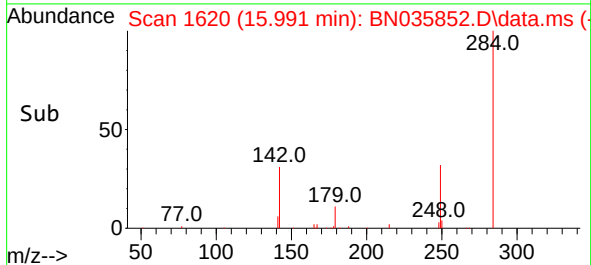
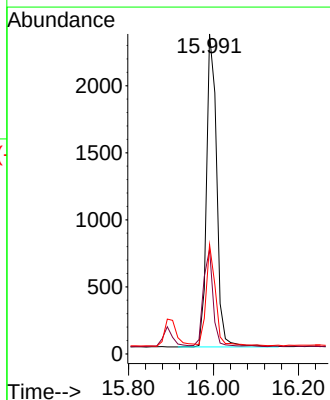
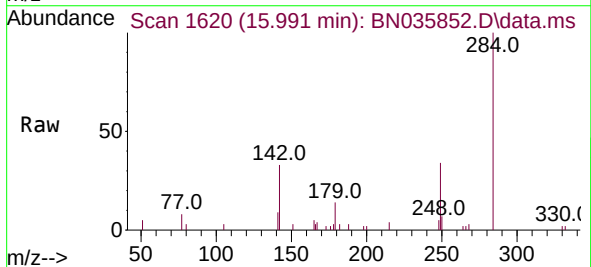
Instrument :
BNA_N
ClientSampleId :
PB165828BS

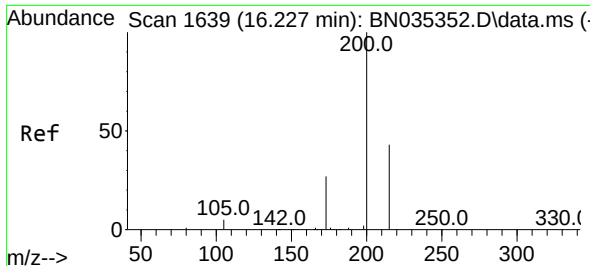
Tgt Ion:248 Resp: 2685
Ion Ratio Lower Upper
248 100
250 102.8 80.6 120.8
141 42.2 31.5 47.3



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862
Ion Ratio Lower Upper
284 100
142 29.3 26.7 40.1
249 30.2 24.6 36.8

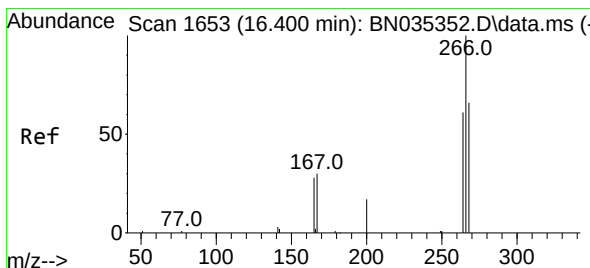
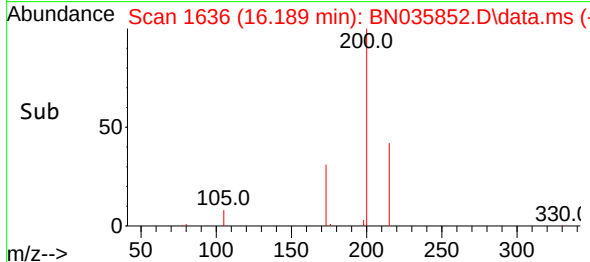
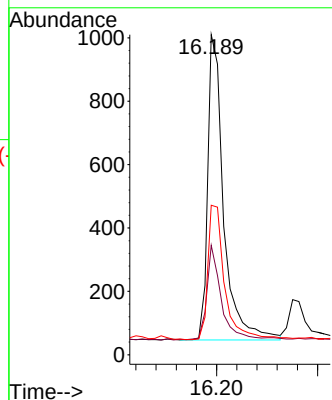
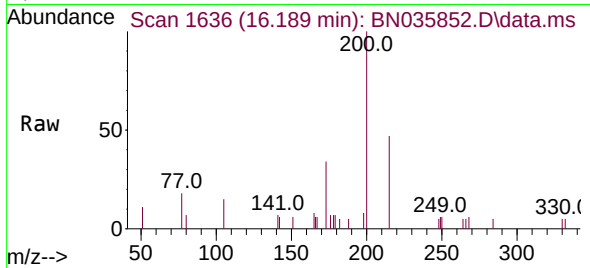




#23
 Atrazine
 Concen: 0.390 ng
 RT: 16.189 min Scan# 1636
 Delta R.T. -0.013 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

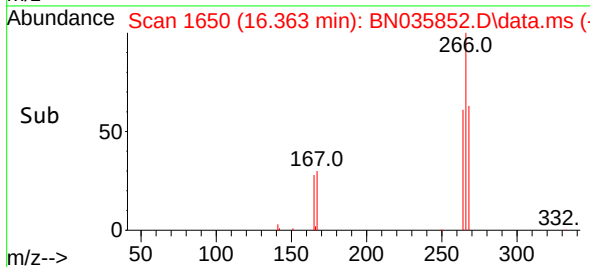
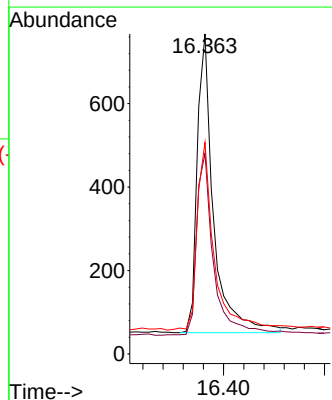
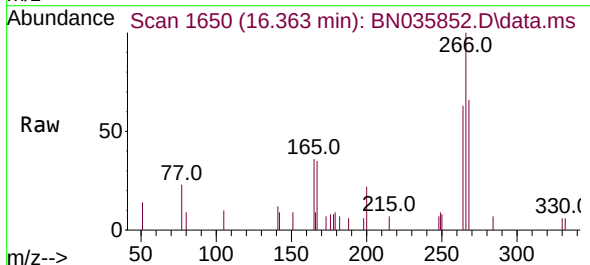
Instrument :
 BNA_N
 ClientSampleId :
 PB165828BS

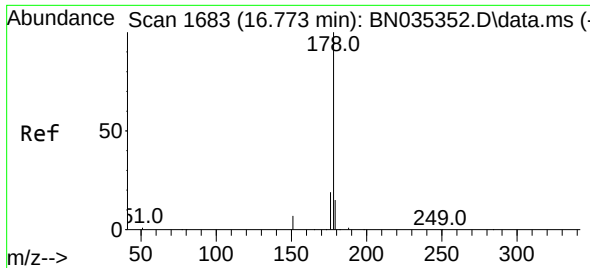
Tgt Ion:200 Resp: 2110
 Ion Ratio Lower Upper
 200 100
 173 34.2 24.1 36.1
 215 46.7 36.9 55.3



#24
 Pentachlorophenol
 Concen: 0.415 ng
 RT: 16.363 min Scan# 1650
 Delta R.T. -0.013 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614
 Ion Ratio Lower Upper
 266 100
 264 63.1 42.3 63.5
 268 65.7 43.3 64.9#

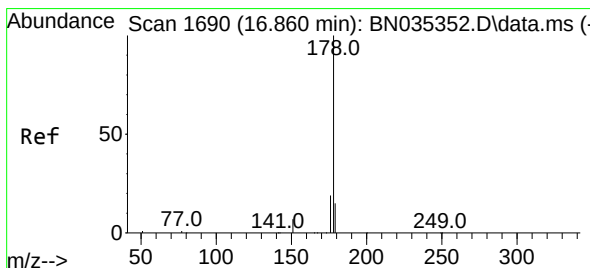
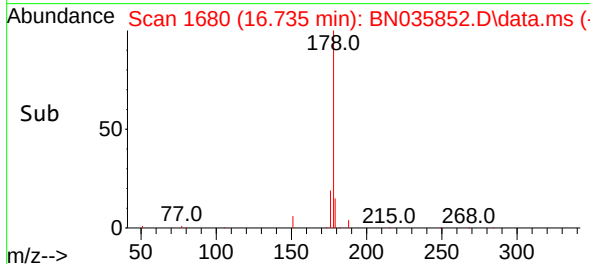
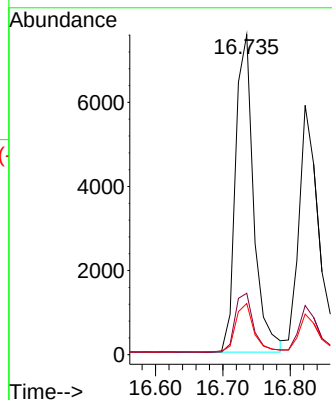
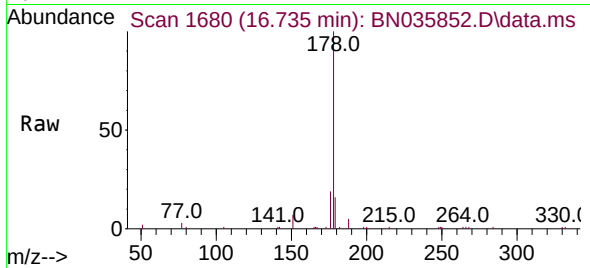




#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

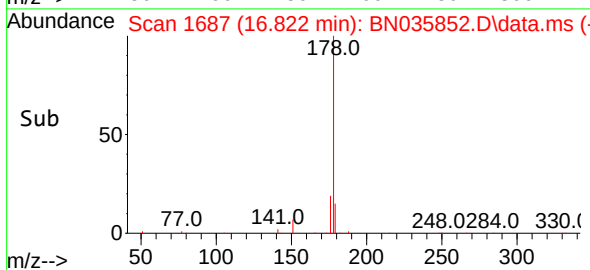
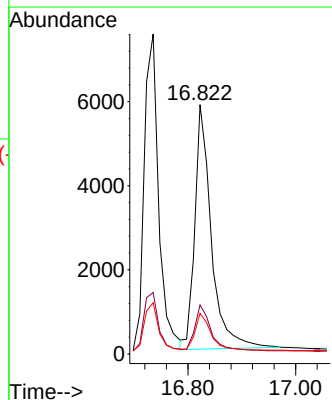
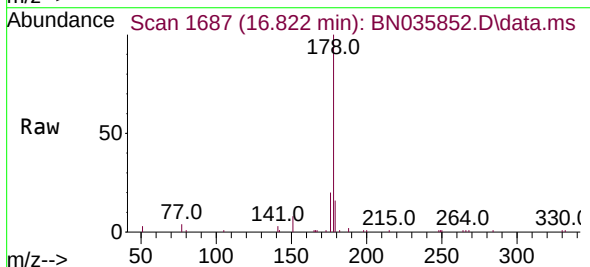
Instrument :
BNA_N
ClientSampleId :
PB165828BS

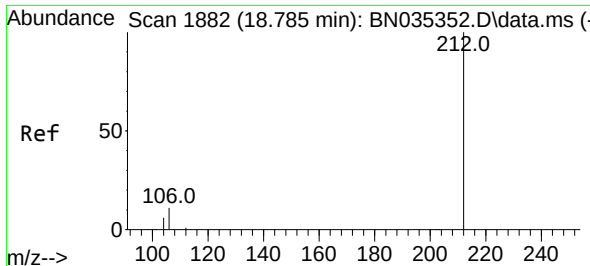
Tgt Ion:178 Resp: 14161
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.3 18.5



#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 14.9 12.6 18.8

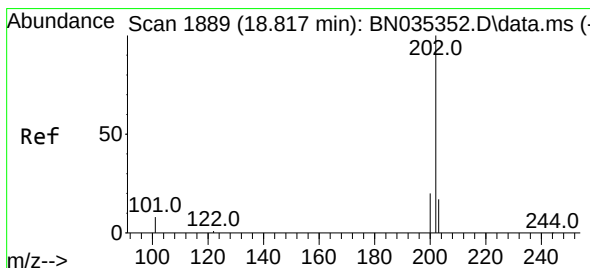
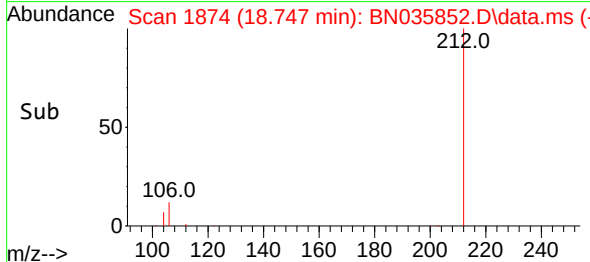
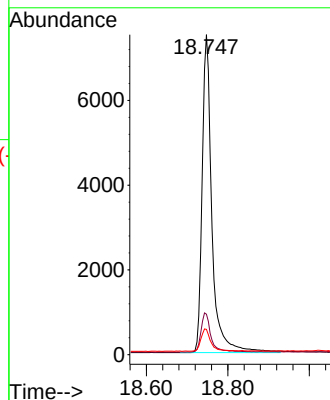
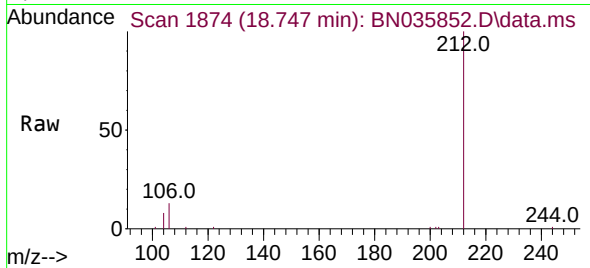




#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

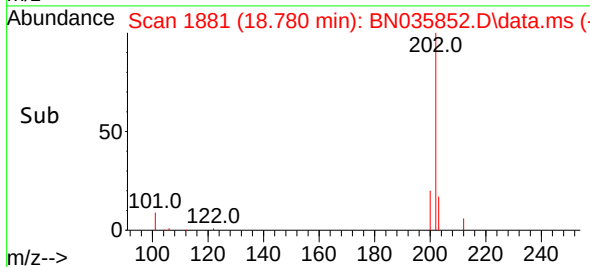
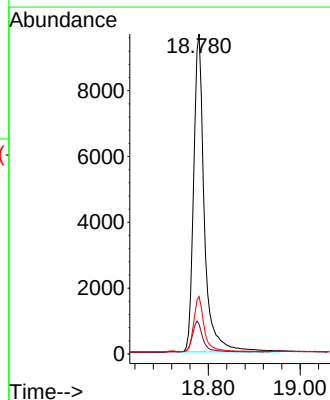
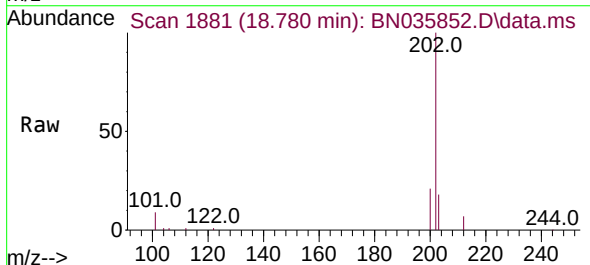
Instrument :
BNA_N
ClientSampleId :
PB165828BS

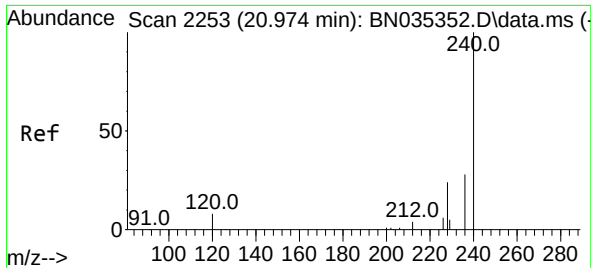
Tgt Ion:212 Resp: 12504
Ion Ratio Lower Upper
212 100
106 12.6 9.2 13.8
104 7.0 5.3 7.9



#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692
Ion Ratio Lower Upper
202 100
101 9.5 7.4 11.0
203 16.8 13.7 20.5

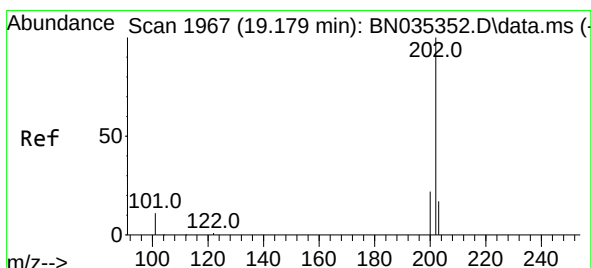
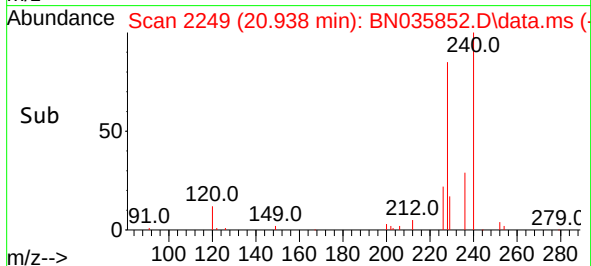
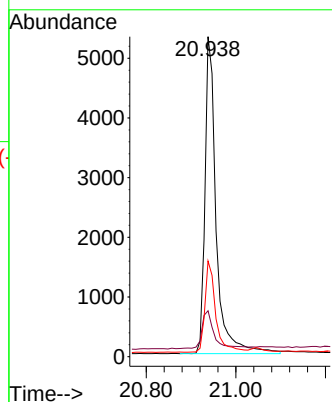
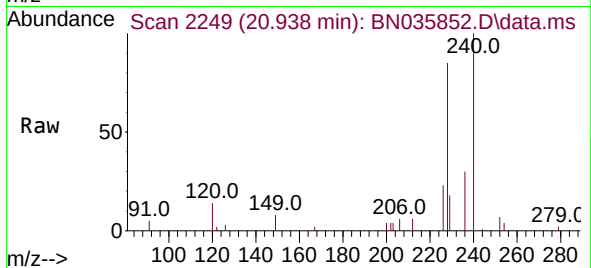




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

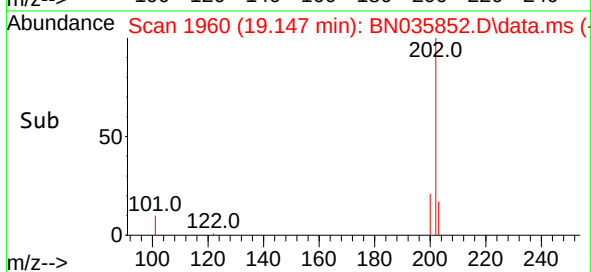
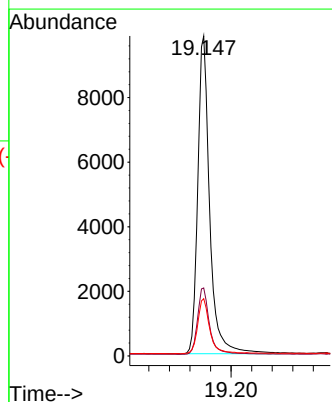
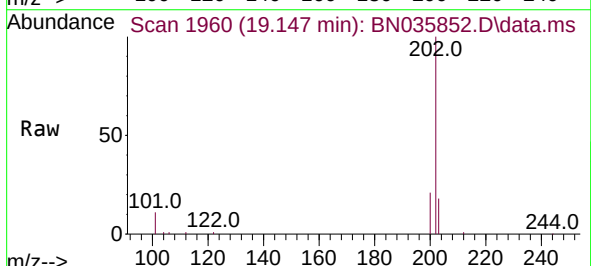
Instrument :
BNA_N
ClientSampleId :
PB165828BS

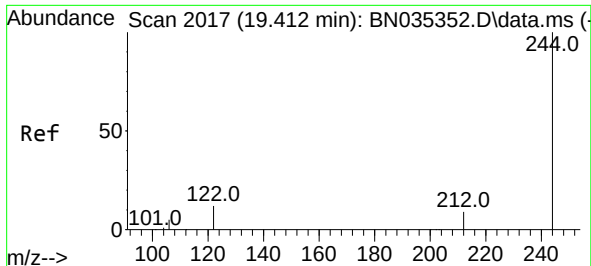
Tgt Ion:240 Resp: 9257
Ion Ratio Lower Upper
240 100
120 14.3 7.9 11.9#
236 29.9 22.9 34.3



#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.5 14.3 21.5

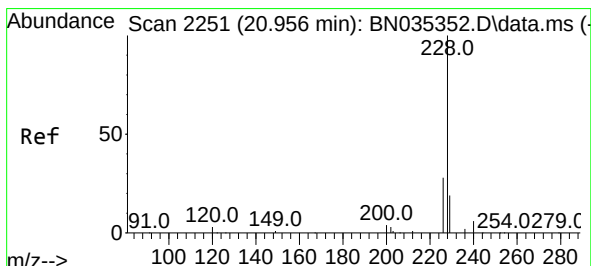
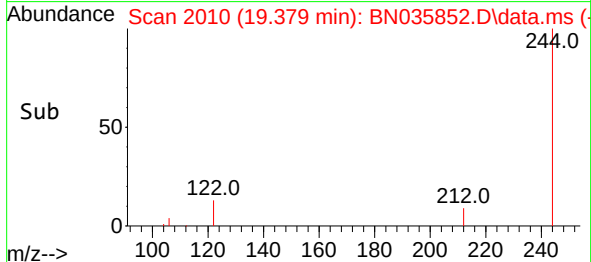
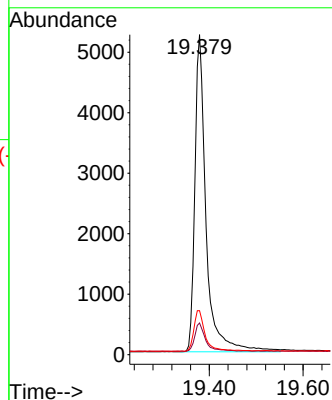
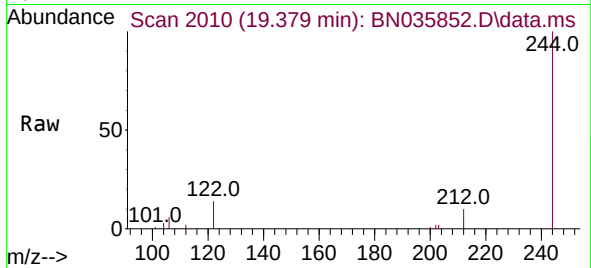




#31
 Terphenyl-d14
 Concen: 0.476 ng
 RT: 19.379 min Scan# 20
 Delta R.T. -0.010 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

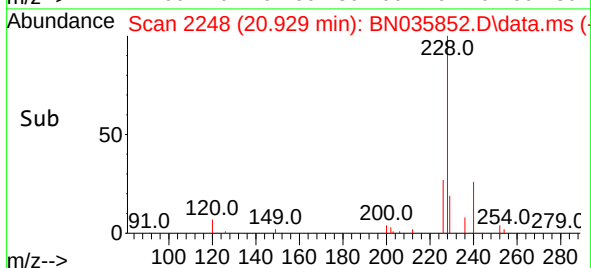
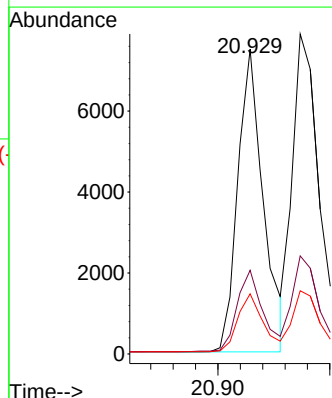
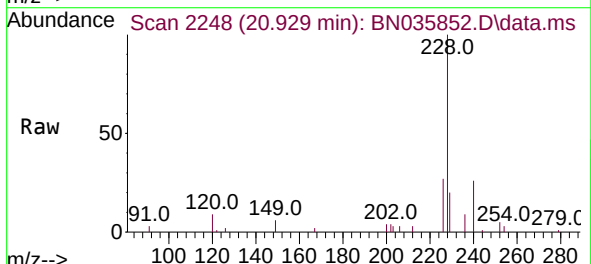
Instrument :
 BNA_N
 ClientSampleId :
 PB165828BS

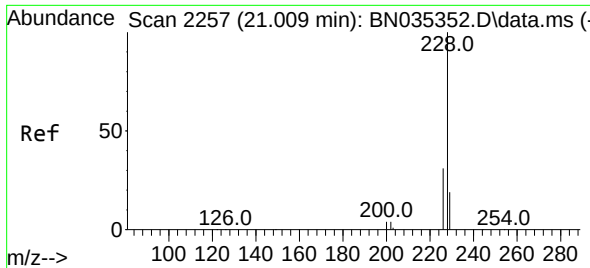
Tgt Ion:244 Resp: 8698
 Ion Ratio Lower Upper
 244 100
 212 9.9 8.1 12.1
 122 13.7 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.365 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035852.D
 Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832
 Ion Ratio Lower Upper
 228 100
 226 27.5 22.5 33.7
 229 19.7 15.8 23.8





#33

Chrysene

Concen: 0.426 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

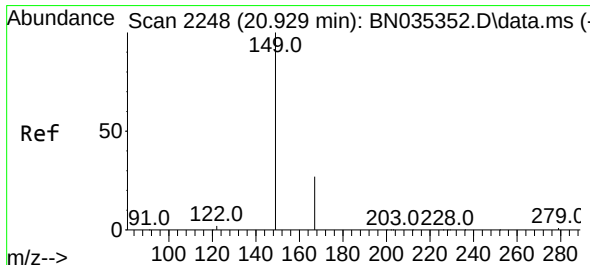
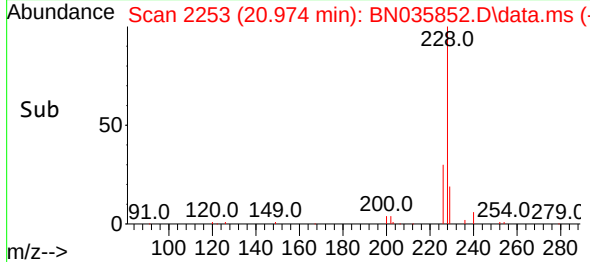
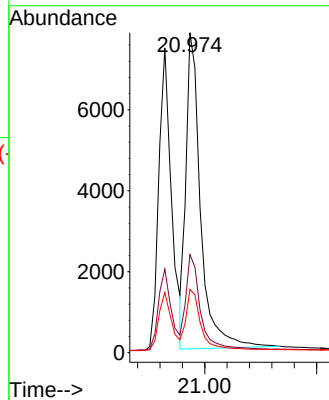
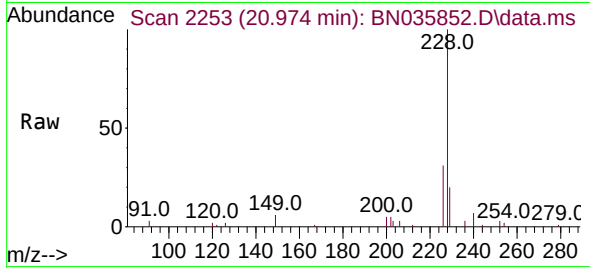
Tgt Ion:228 Resp: 14241

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.415 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

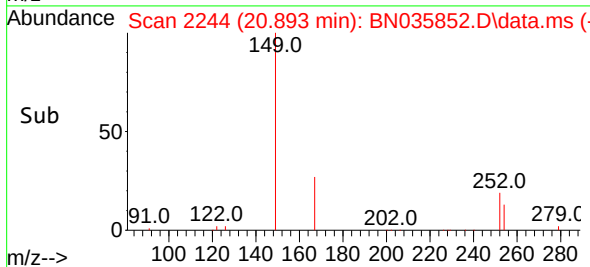
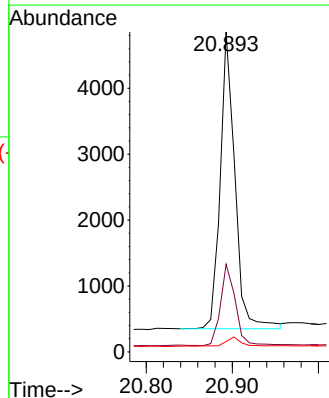
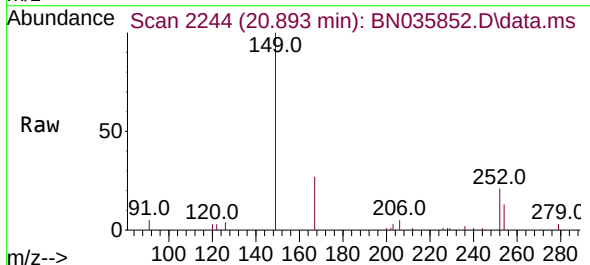
Tgt Ion:149 Resp: 5313

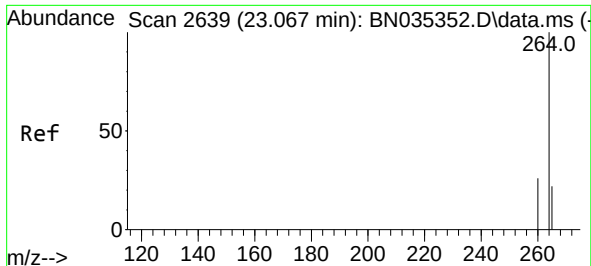
Ion Ratio Lower Upper

149 100

167 27.4 22.2 33.4

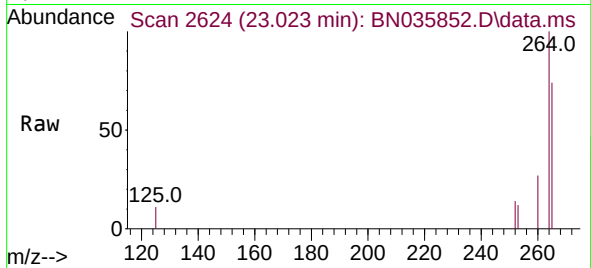
279 3.3 2.7 4.1



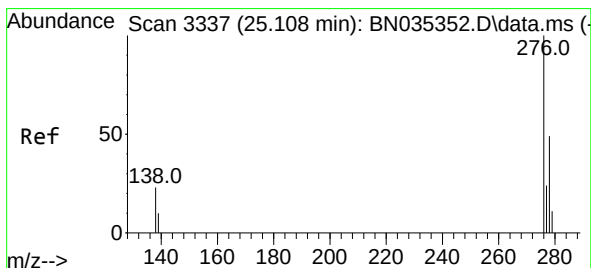
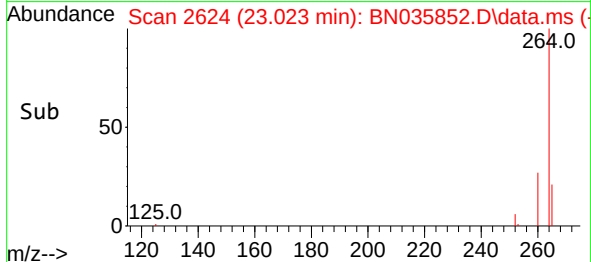
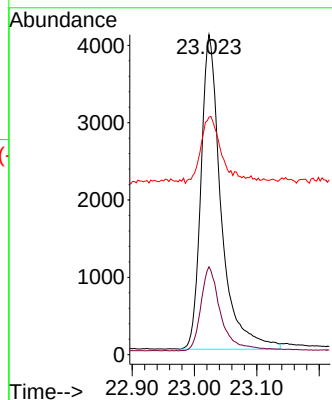


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

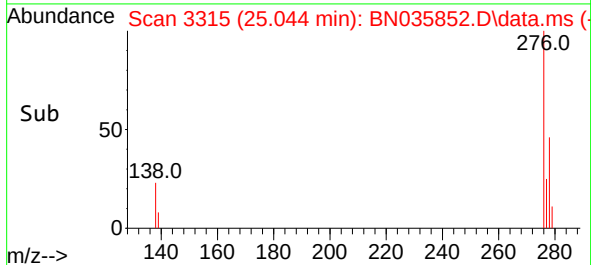
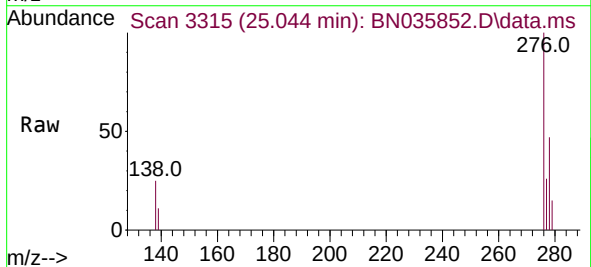
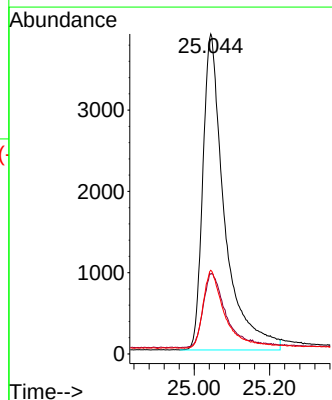


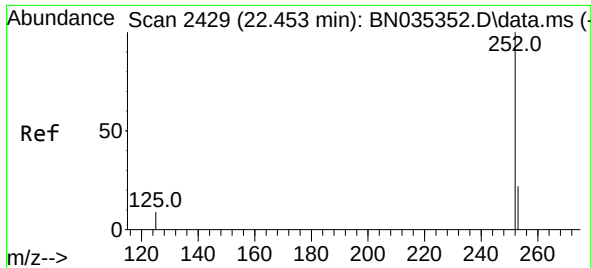
Tgt Ion:264 Resp: 9148
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 74.2 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

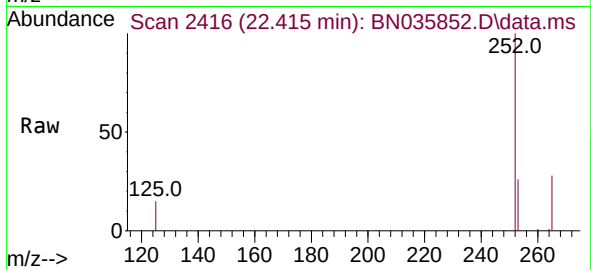
Tgt Ion:276 Resp: 15551
Ion Ratio Lower Upper
276 100
138 23.9 19.4 29.0
277 24.9 19.8 29.6



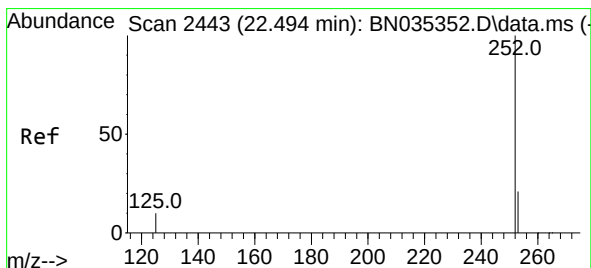
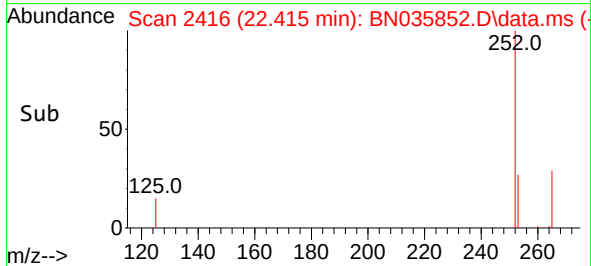
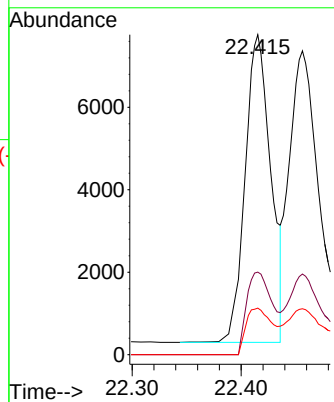


#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 2416
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

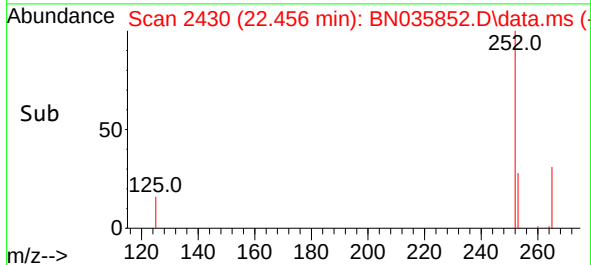
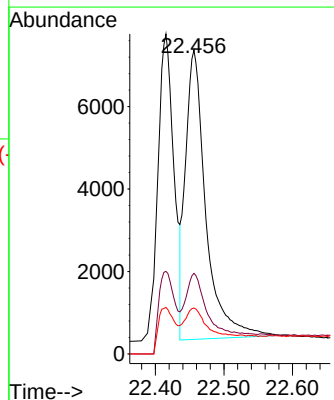
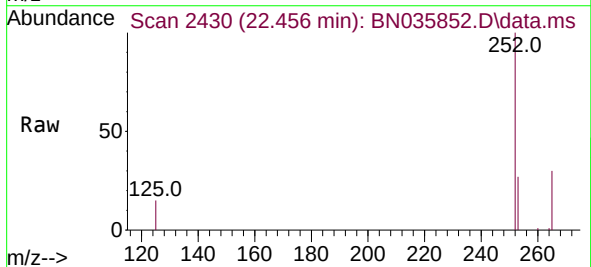


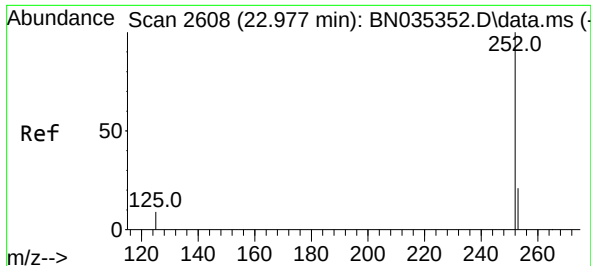
Tgt Ion:252 Resp: 19434
Ion Ratio Lower Upper
252 100
253 25.8 19.6 29.4
125 14.5 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469
Ion Ratio Lower Upper
252 100
253 26.5 19.5 29.3
125 15.1 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.422 ng

RT: 22.936 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

Instrument :

BNA_N

ClientSampleId :

PB165828BS

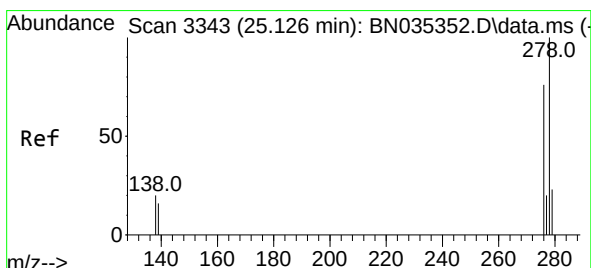
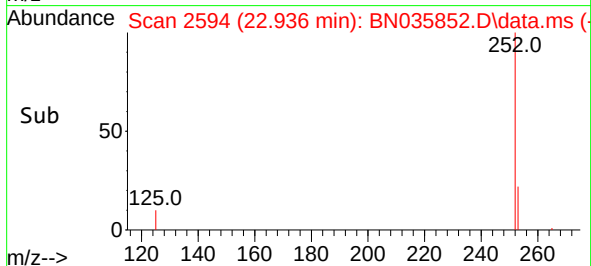
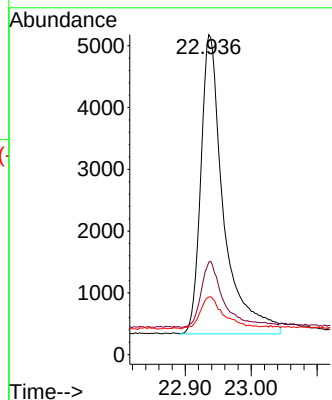
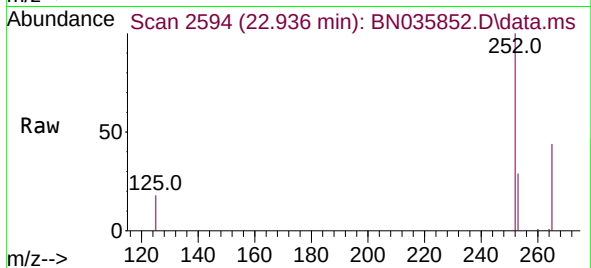
Tgt Ion:252 Resp: 11624

Ion Ratio Lower Upper

252 100

253 29.0 20.2 30.4

125 18.0 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.021 min

Lab File: BN035852.D

Acq: 26 Dec 2024 14:19

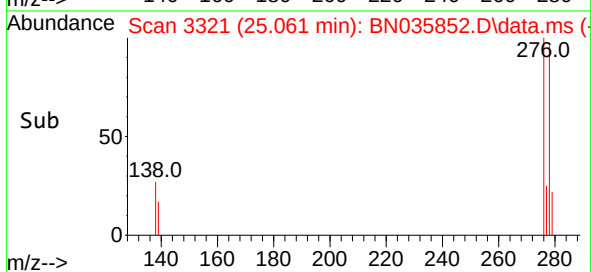
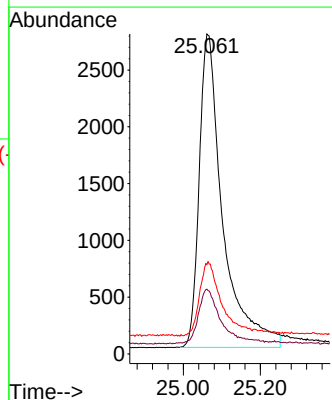
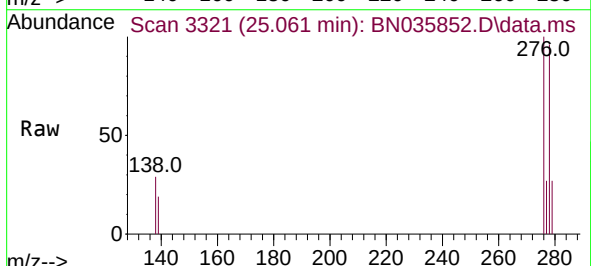
Tgt Ion:278 Resp: 11696

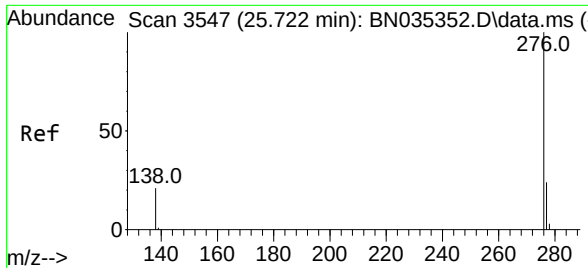
Ion Ratio Lower Upper

278 100

139 20.2 14.2 21.4

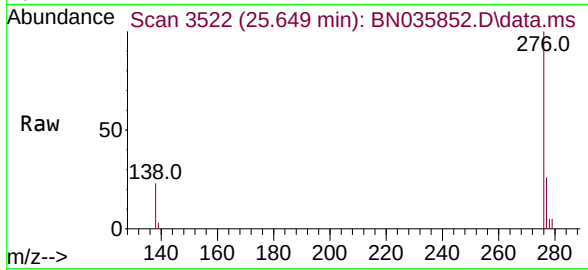
279 28.0 20.5 30.7



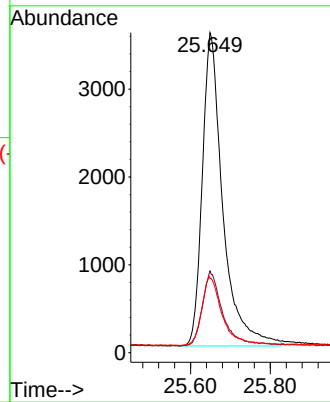
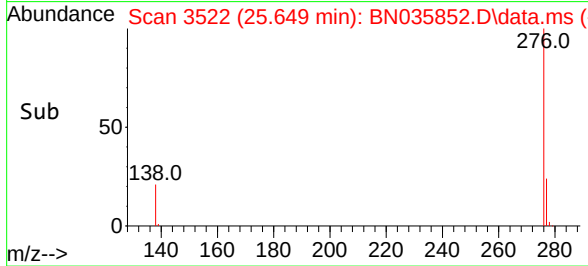


#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 31
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS



Tgt Ion:	276	Resp:	12710
Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.9	29.9
138	23.2	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035854.D
 Acq On : 26 Dec 2024 15:30
 Operator : RC/JU
 Sample : P5376-03DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218DL

Quant Time: Dec 27 00:41:35 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)

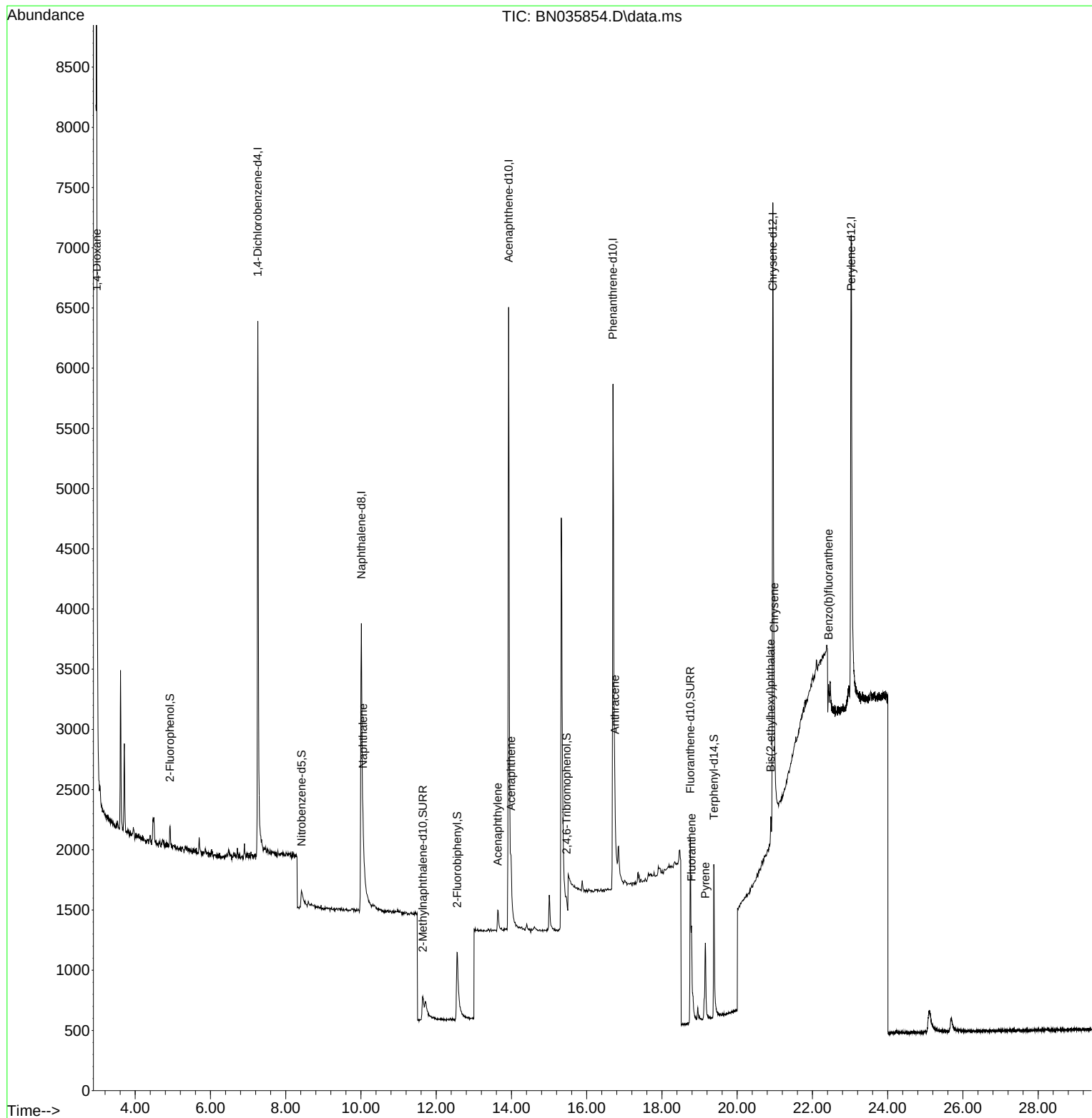
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2752	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6133	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4189	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9267	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7345	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6900	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	170	0.025	ng	-0.01
5) Phenol-d6	6.477	99	80	0.010	ng	-0.01
8) Nitrobenzene-d5	8.418	82	544	0.145	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	768	0.080	ng	0.02
14) 2,4,6-Tribromophenol	15.464	330	143	0.048	ng	0.01
15) 2-Fluorobiphenyl	12.559	172	1316	0.083	ng	0.01
27) Fluoranthene-d10	18.757	212	2532	0.096	ng	0.00
31) Terphenyl-d14	19.379	244	1897	0.131	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	5250	1.996	ng	99
9) Naphthalene	10.052	128	468	0.029	ng	# 41
16) Acenaphthylene	13.636	152	389	0.022	ng	95
17) Acenaphthene	13.989	154	244	0.021	ng	96
26) Anthracene	16.748	178	698	0.030	ng	96
28) Fluoranthene	18.784	202	749	0.022	ng	99
30) Pyrene	19.151	202	773	0.029	ng	98
33) Chrysene	20.982	228	652	0.025	ng	# 79
34) Bis(2-ethylhexyl)phtha...	20.893	149	272	0.027	ng	# 91
37) Benzo(b)fluoranthene	22.430	252	554	0.022	ng	# 1

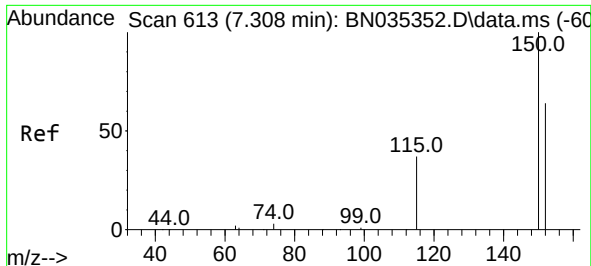
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

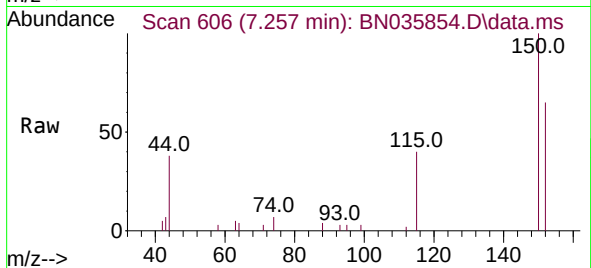
Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





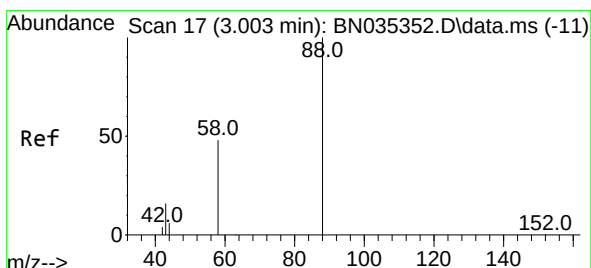
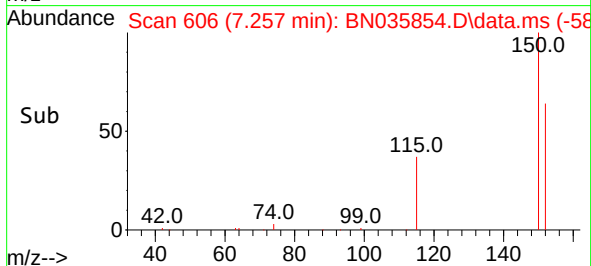
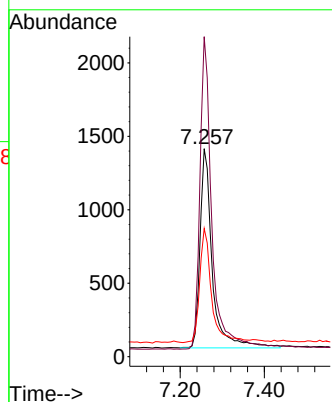
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 61
 Delta R.T. -0.015 min
 Lab File: BN035854.D
 Acq: 26 Dec 2024 15:30

Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218DL



Tgt Ion:152 Resp: 2752

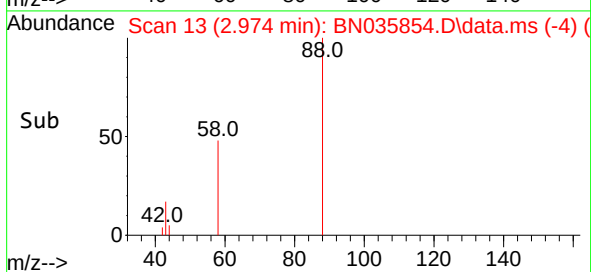
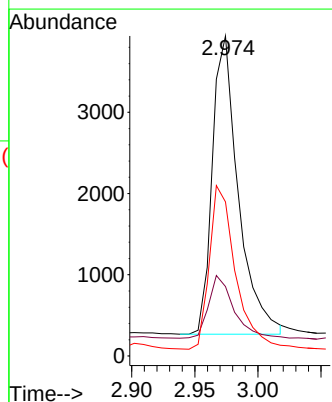
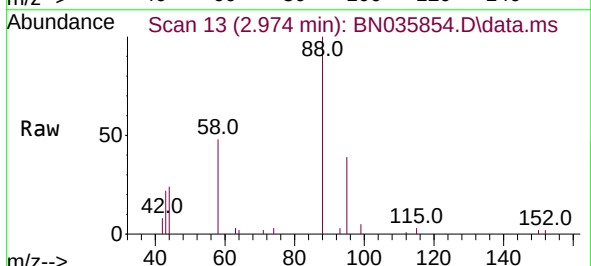
Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.0	186.0
115	61.7	49.6	74.4

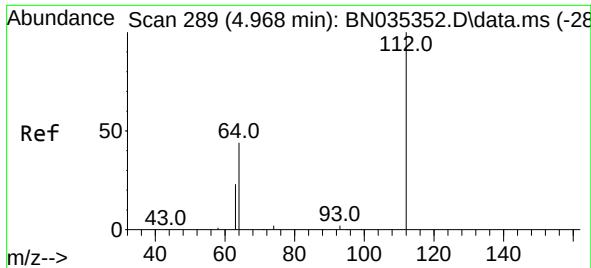


#2
 1,4-Dioxane
 Concen: 1.996 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.008 min
 Lab File: BN035854.D
 Acq: 26 Dec 2024 15:30

Tgt Ion: 88 Resp: 5250

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.9	44.5	66.7

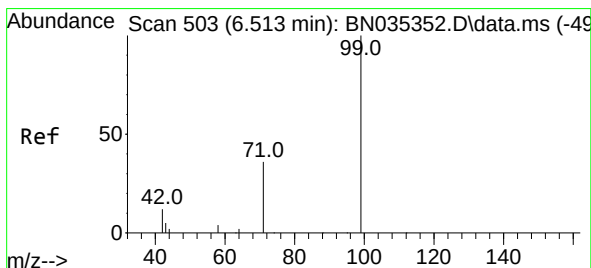
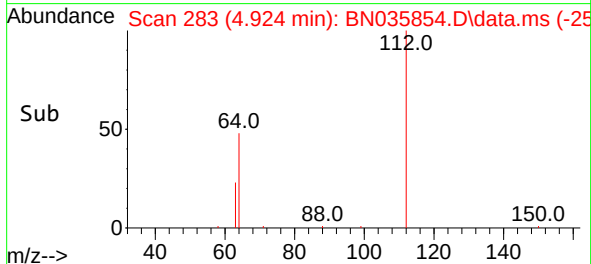
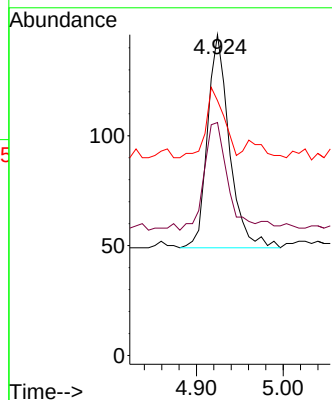
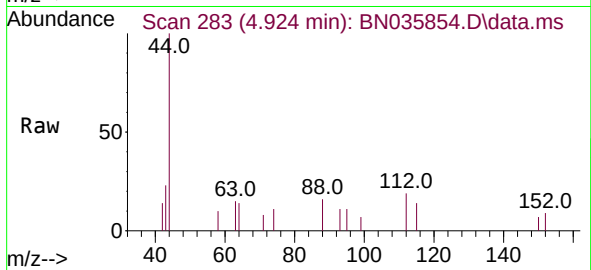




#4
2-Fluorophenol
Concen: 0.025 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

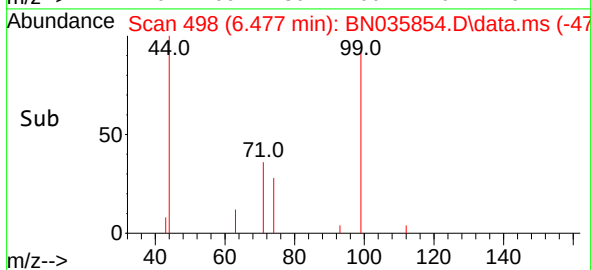
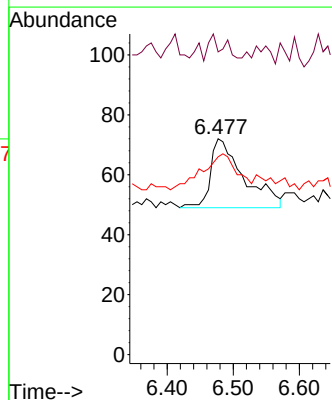
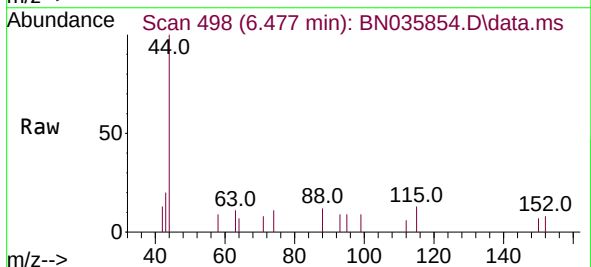
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

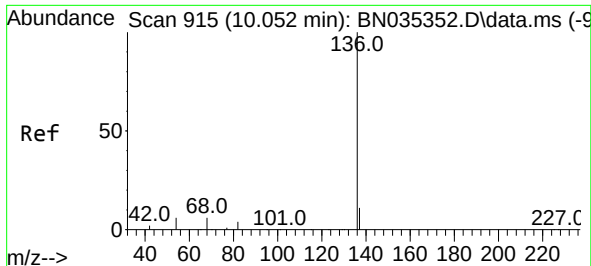
Tgt Ion:112 Resp: 170
Ion Ratio Lower Upper
112 100
64 53.5 39.8 59.8
63 31.8 21.0 31.6#



#5
Phenol-d6
Concen: 0.010 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 99 Resp: 80
Ion Ratio Lower Upper
99 100
42 12.5 11.4 17.2
71 53.8 29.3 43.9#

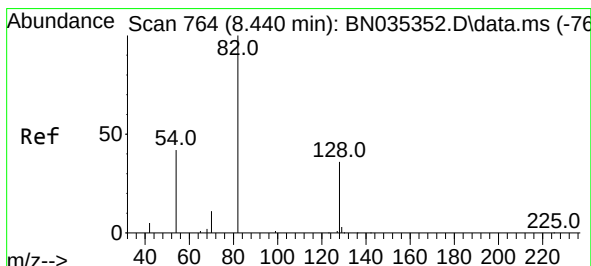
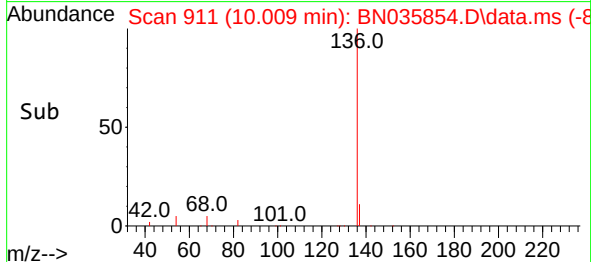
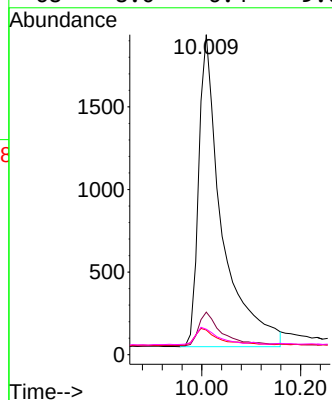
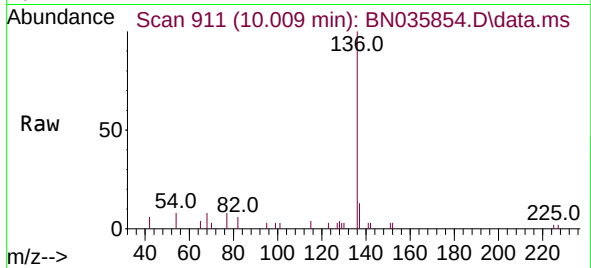




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

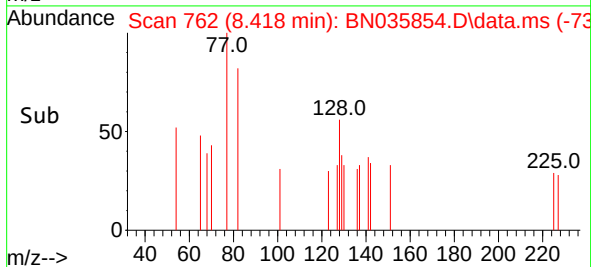
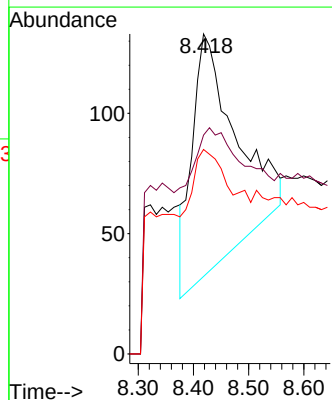
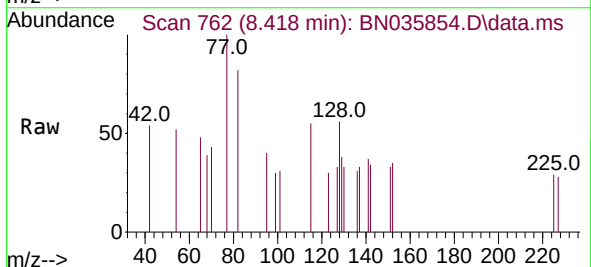
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

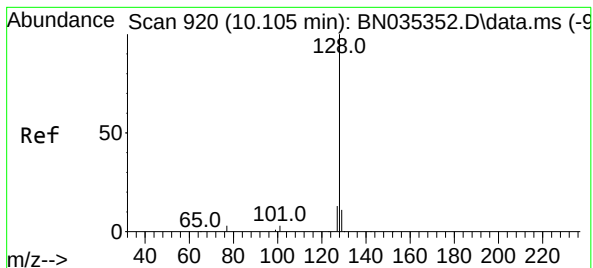
Tgt Ion:	136	Resp:	6133
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.145 ng
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:	82	Resp:	544
Ion	Ratio	Lower	Upper
82	100		
128	68.4	33.4	50.0#
54	63.9	36.7	55.1#





#9

Naphthalene

Concen: 0.029 ng

RT: 10.052 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035854.D

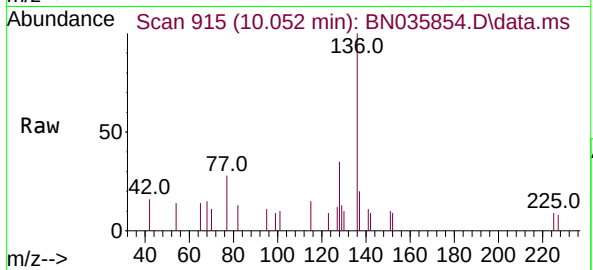
Acq: 26 Dec 2024 15:30

Instrument :

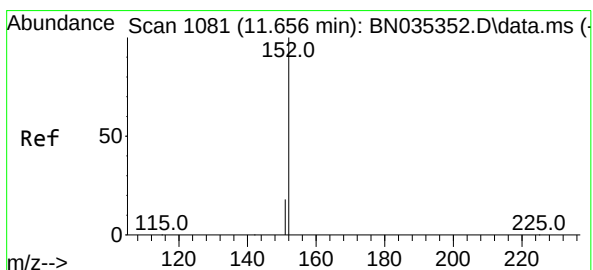
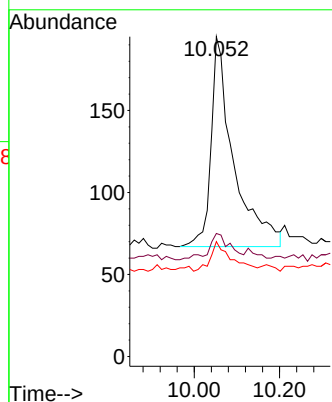
BNA_N

ClientSampleId :

RE115D2-20241218DL



Tgt Ion:	128	Resp:	468
Ion Ratio	Lower	Upper	
128	100		
129	38.5	9.8	14.6#
127	35.9	11.4	17.2#



#11

2-Methylnaphthalene-d10

Concen: 0.080 ng

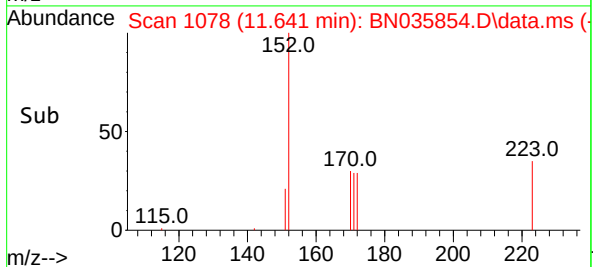
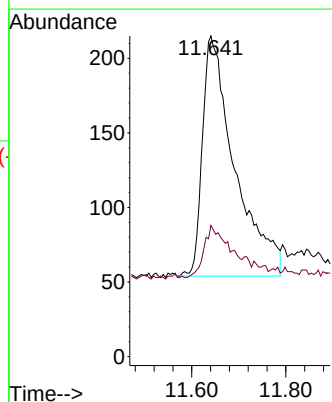
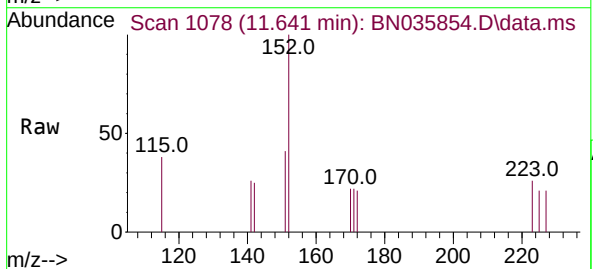
RT: 11.641 min Scan# 1078

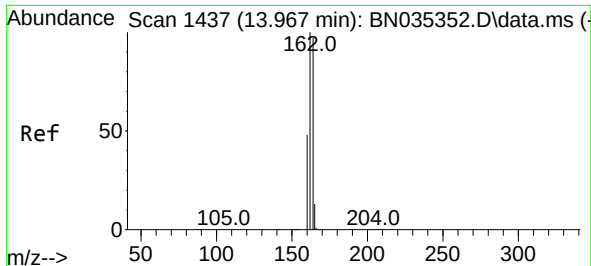
Delta R.T. 0.020 min

Lab File: BN035854.D

Acq: 26 Dec 2024 15:30

Tgt Ion:	152	Resp:	768
Ion Ratio	Lower	Upper	
152	100		
151	16.5	16.6	25.0#

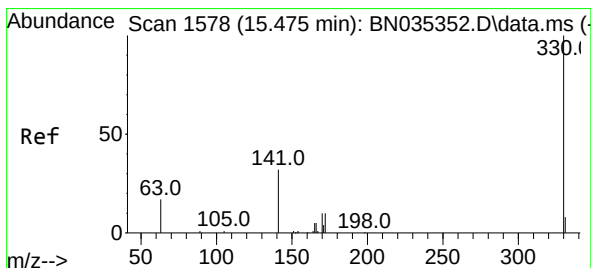
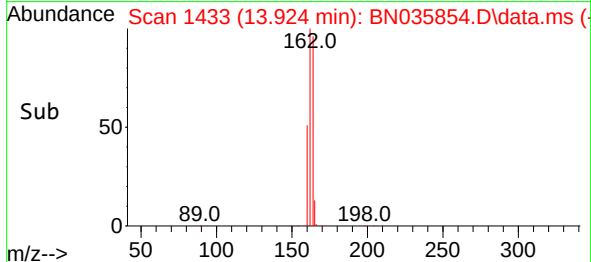
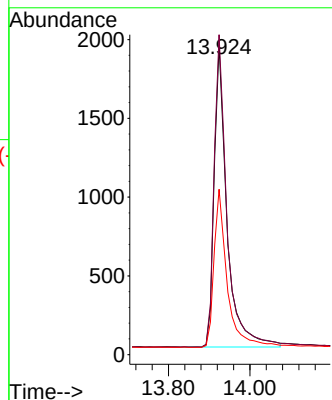
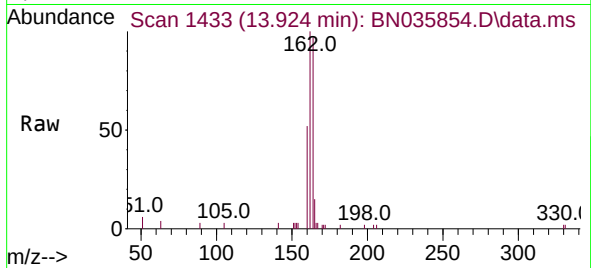




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

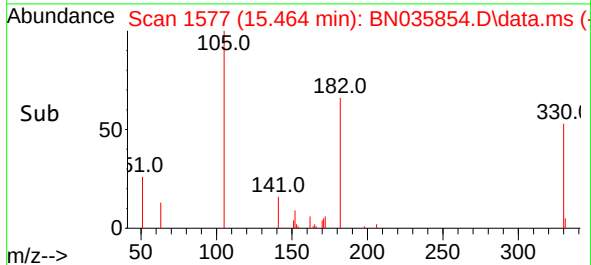
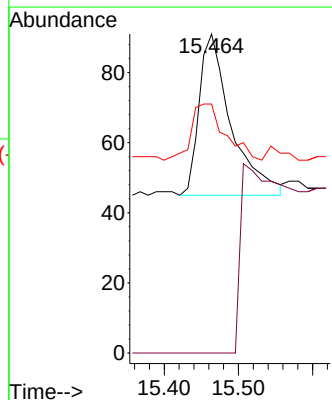
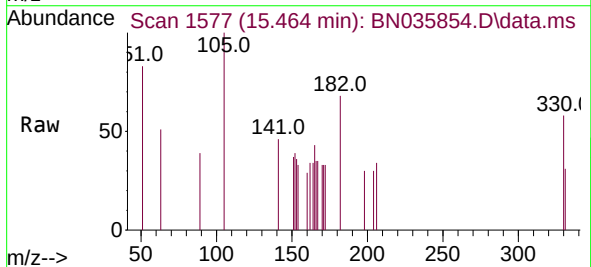
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

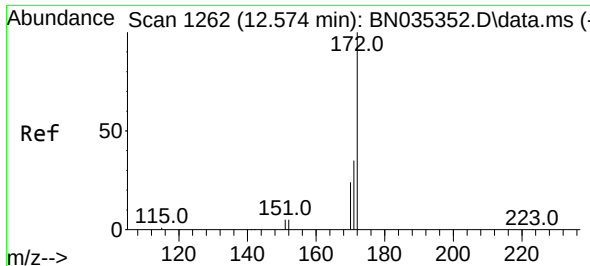
Tgt Ion:164 Resp: 4189
Ion Ratio Lower Upper
164 100
162 103.5 82.2 123.2
160 53.5 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.048 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:330 Resp: 143
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 38.5 26.6 40.0

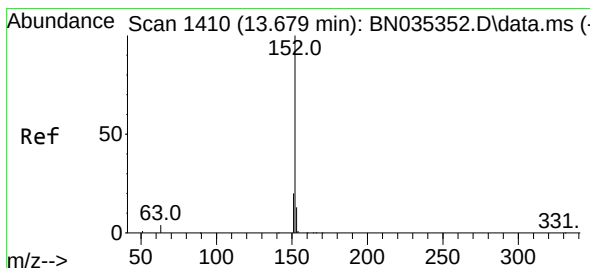
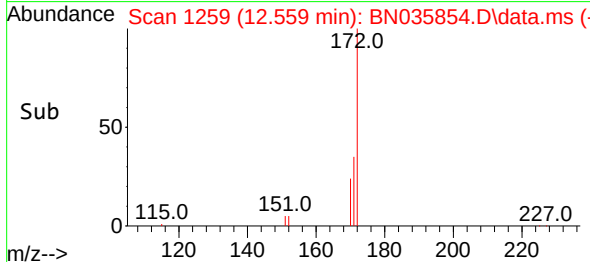
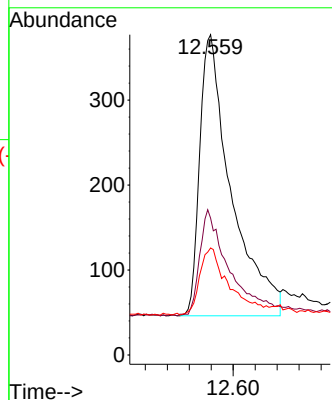
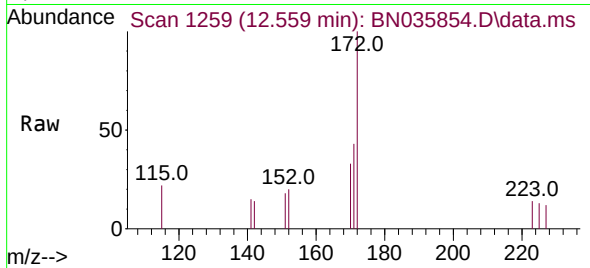




#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.559 min Scan# 11
Delta R.T. 0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

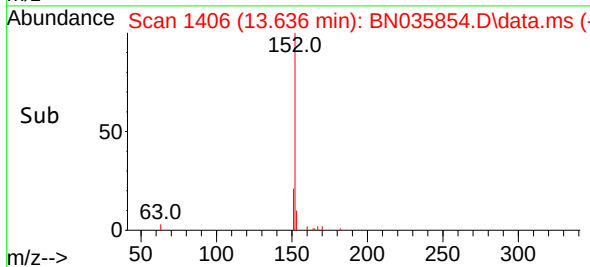
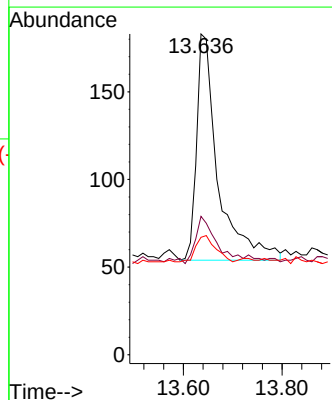
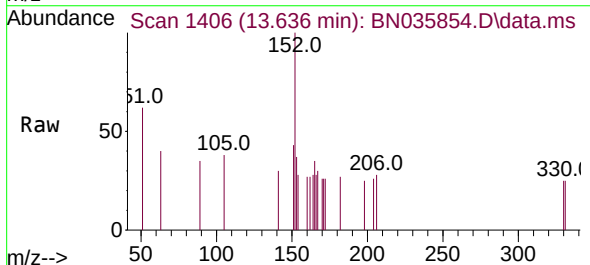
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

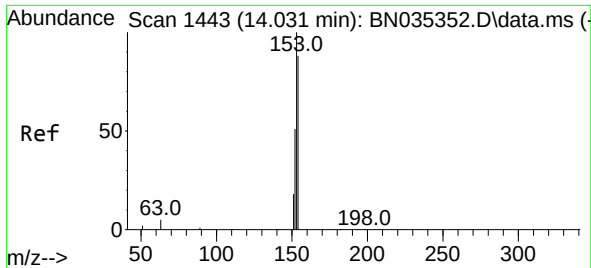
Tgt Ion:172	Resp:	1316
Ion Ratio	Lower	Upper
172	100	
171	42.7	29.0 43.4
170	33.4	19.8 29.8#



#16
Acenaphthylene
Concen: 0.022 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152	Resp:	389
Ion Ratio	Lower	Upper
152	100	
151	22.4	16.2 24.2
153	10.5	10.4 15.6

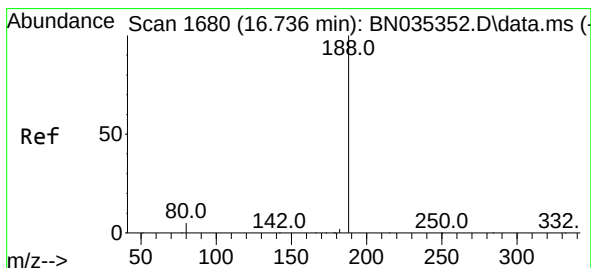
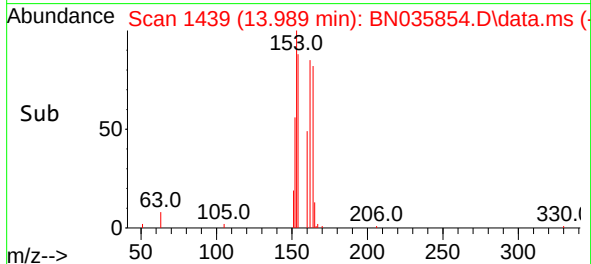
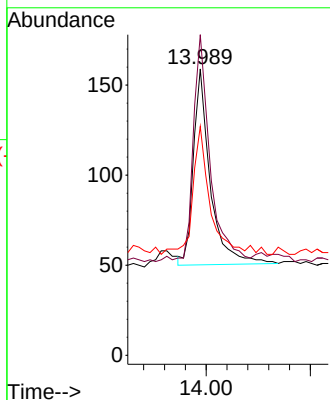
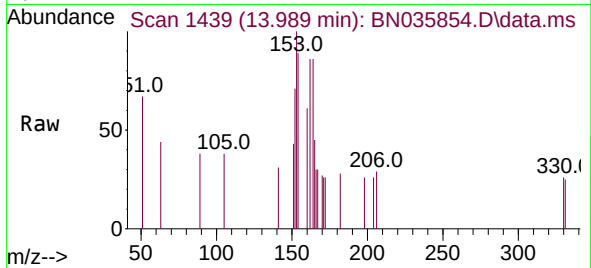




#17
Acenaphthene
Concen: 0.021 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

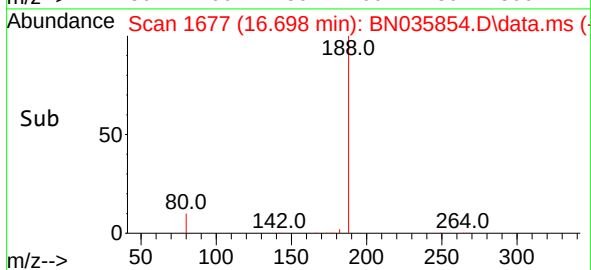
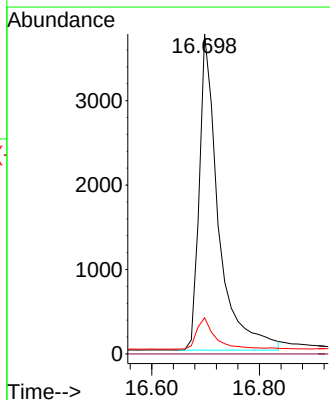
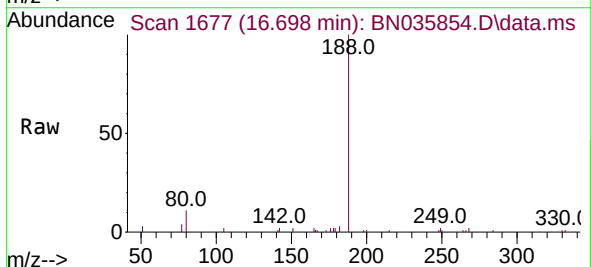
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

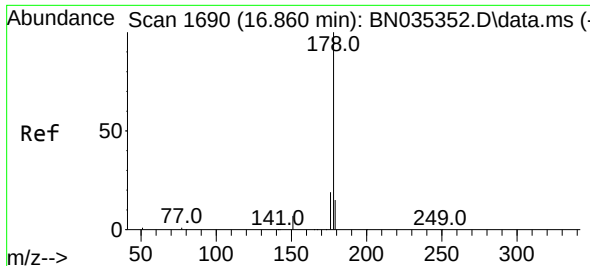
Tgt Ion:154 Resp: 244
Ion Ratio Lower Upper
154 100
153 111.9 92.6 139.0
152 65.2 49.0 73.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:188 Resp: 9267
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 4.6 6.8

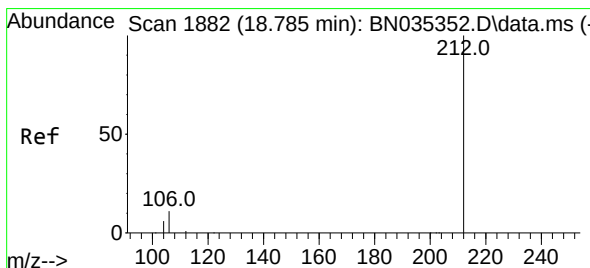
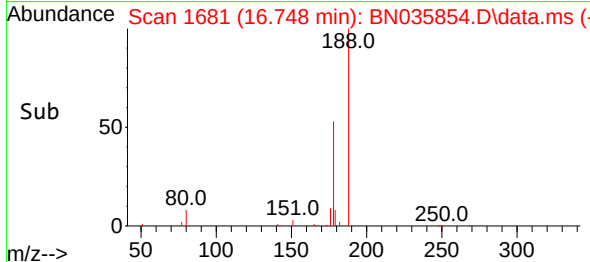
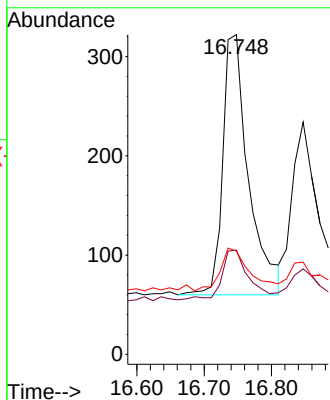
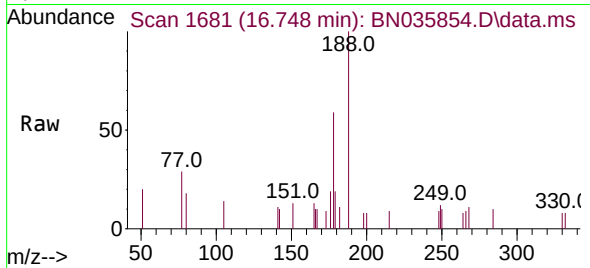




#26
 Anthracene
 Concen: 0.030 ng
 RT: 16.748 min Scan# 1681
 Delta R.T. -0.087 min
 Lab File: BN035854.D
 Acq: 26 Dec 2024 15:30

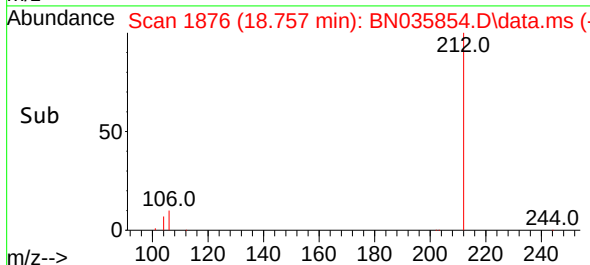
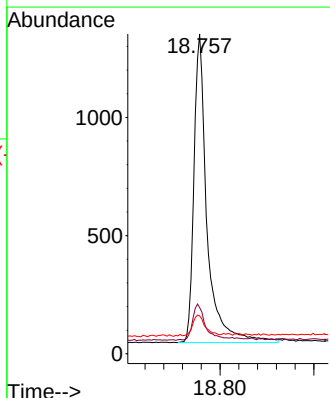
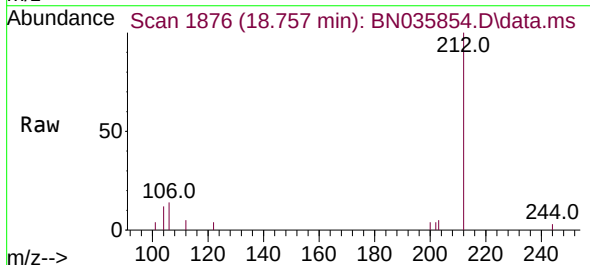
Instrument :
 BNA_N
 ClientSampleId :
 RE115D2-20241218DL

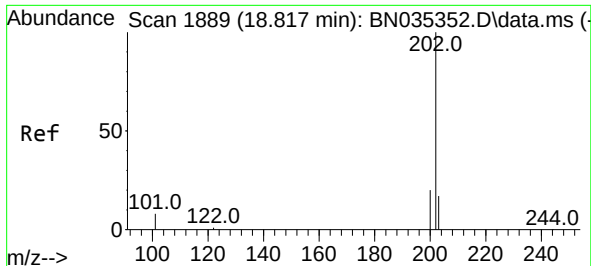
Tgt Ion:	178	Resp:	698
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.0	22.6
179	18.6	12.6	18.8



#27
 Fluoranthene-d10
 Concen: 0.096 ng
 RT: 18.757 min Scan# 1876
 Delta R.T. -0.005 min
 Lab File: BN035854.D
 Acq: 26 Dec 2024 15:30

Tgt Ion:	212	Resp:	2532
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.4	5.3	7.9

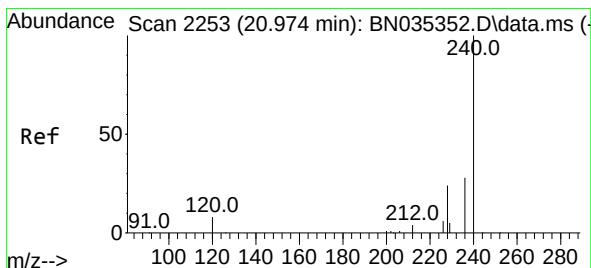
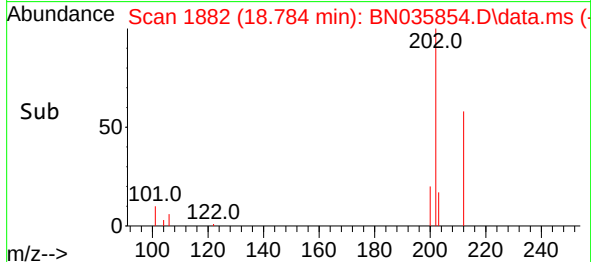
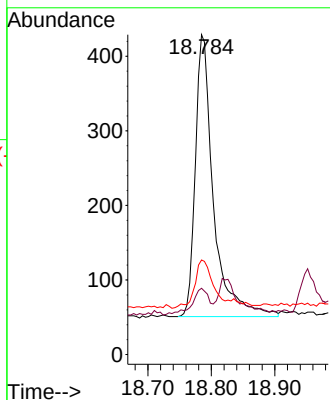
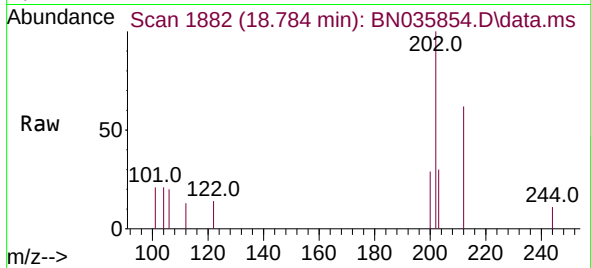




#28
Fluoranthene
Concen: 0.022 ng
RT: 18.784 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

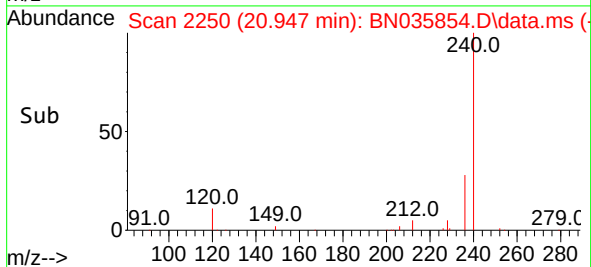
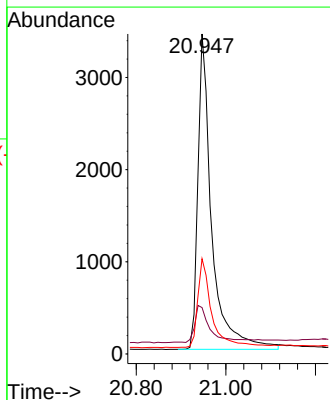
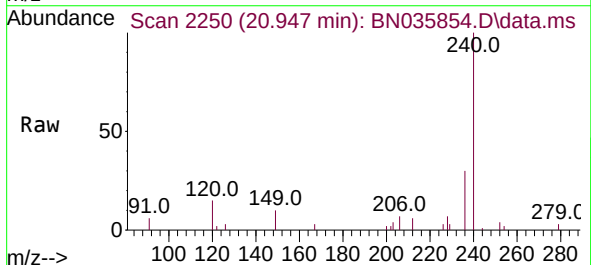
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

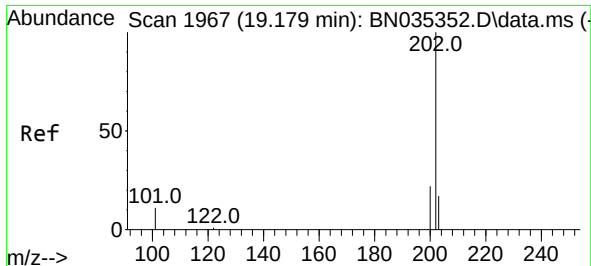
Tgt Ion:202 Resp: 749
Ion Ratio Lower Upper
202 100
101 8.4 7.4 11.0
203 17.1 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:240 Resp: 7345
Ion Ratio Lower Upper
240 100
120 14.5 7.9 11.9#
236 29.8 22.9 34.3

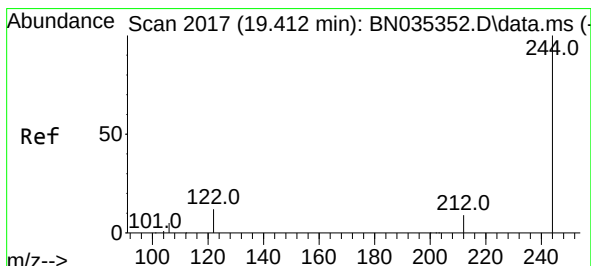
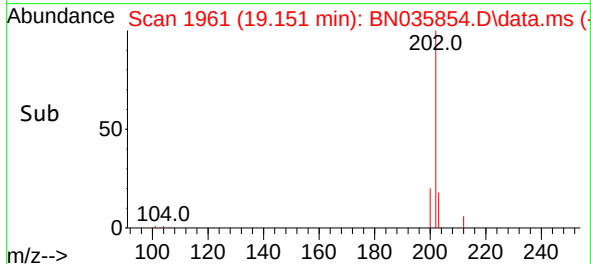
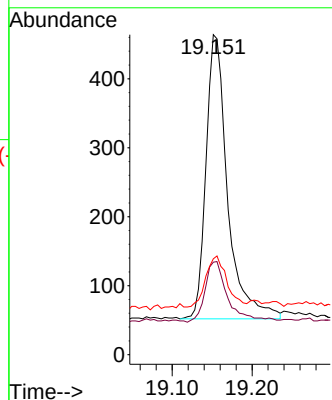
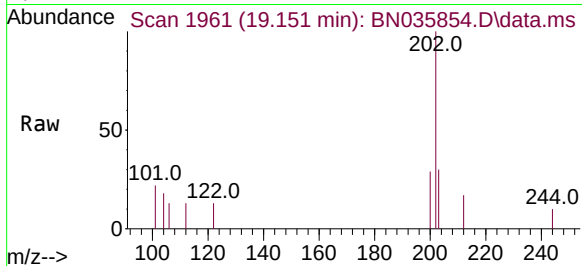




#30
Pyrene
Concen: 0.029 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

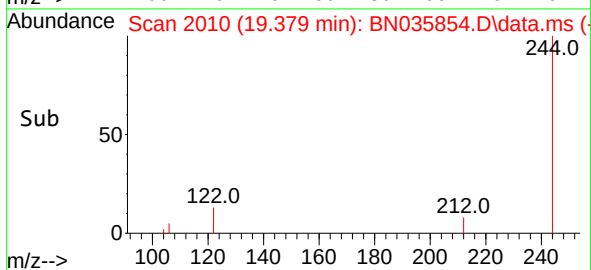
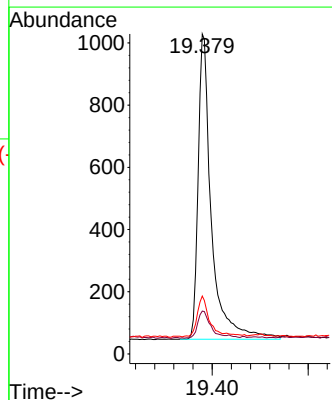
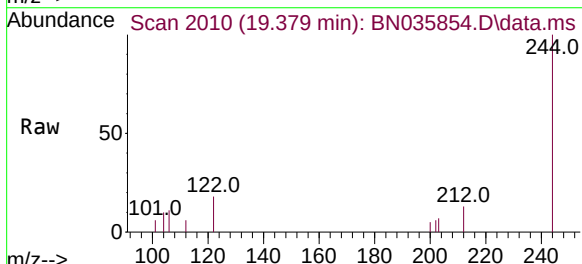
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

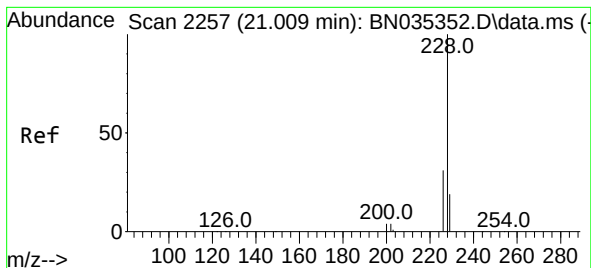
Tgt Ion:	202	Resp:	773
Ion	Ratio	Lower	Upper
202	100		
200	22.8	17.0	25.4
203	17.5	14.3	21.5



#31
Terphenyl-d14
Concen: 0.131 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:	244	Resp:	1897
Ion	Ratio	Lower	Upper
244	100		
212	13.4	8.1	12.1#
122	18.1	10.3	15.5#





#33

Chrysene

Concen: 0.025 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035854.D

Acq: 26 Dec 2024 15:30

Instrument :

BNA_N

ClientSampleId :

RE115D2-20241218DL

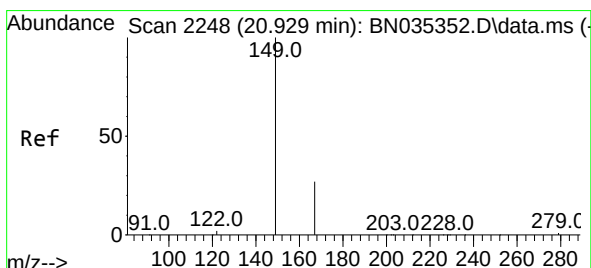
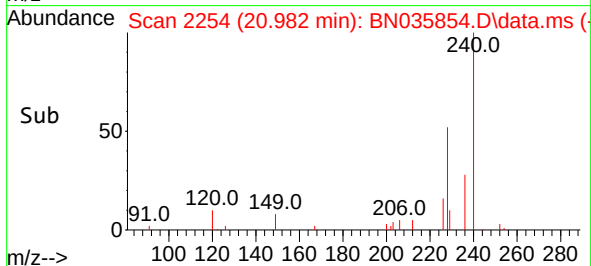
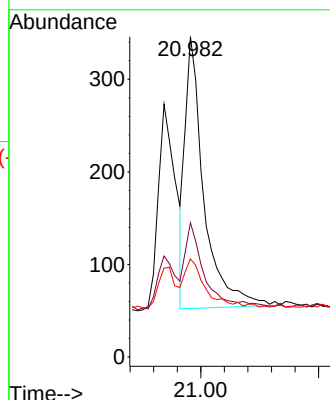
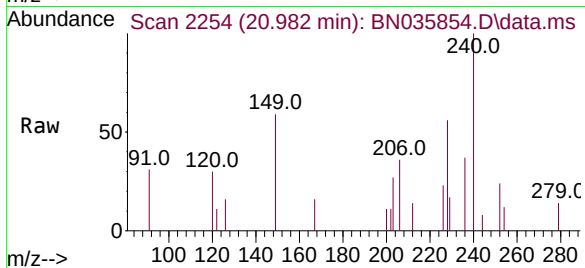
Tgt Ion:228 Resp: 652

Ion Ratio Lower Upper

228 100

226 41.9 24.6 37.0#

229 30.6 15.9 23.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.027 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035854.D

Acq: 26 Dec 2024 15:30

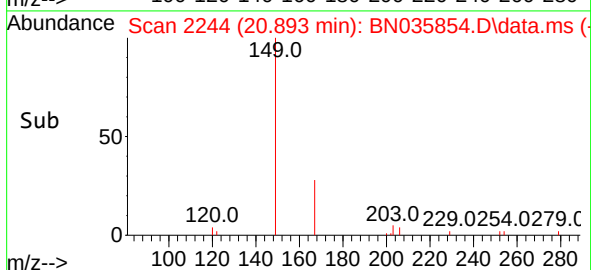
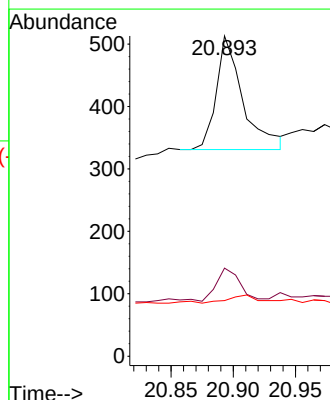
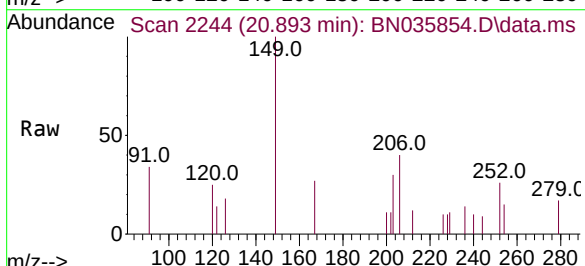
Tgt Ion:149 Resp: 272

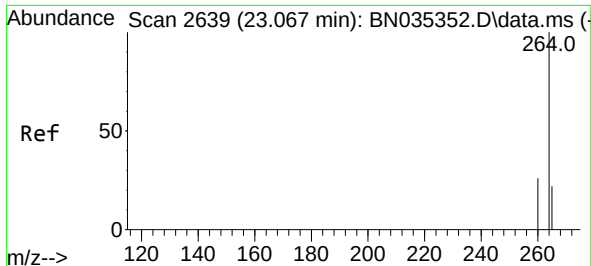
Ion Ratio Lower Upper

149 100

167 23.2 22.2 33.4

279 7.4 2.7 4.1#

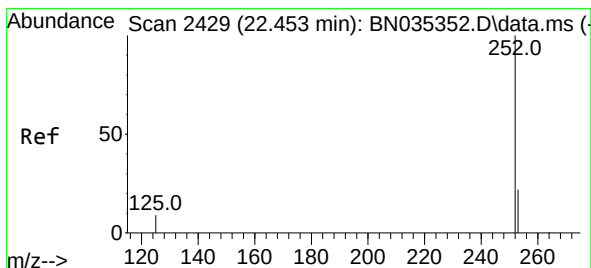
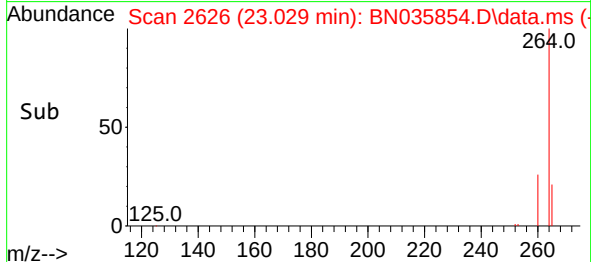
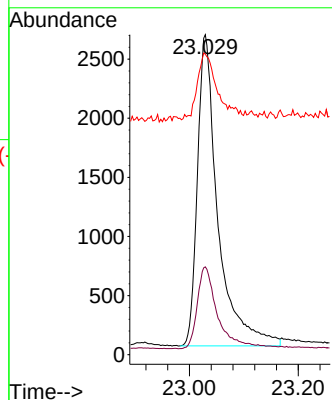
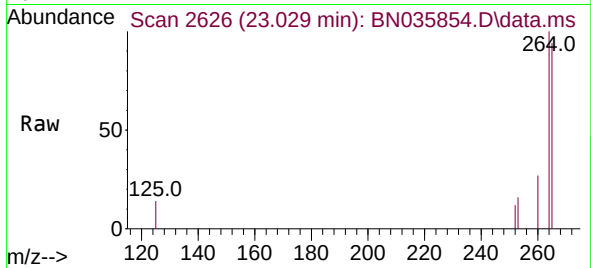




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

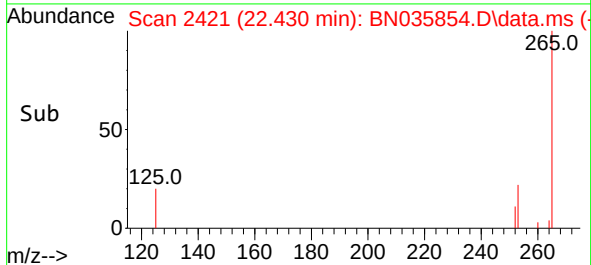
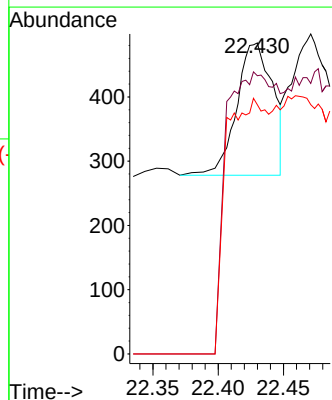
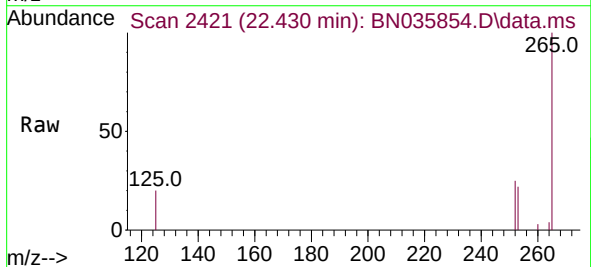
Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:264 Resp: 6900
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 93.9 40.2 60.4#



#37
Benzo(b)fluoranthene
Concen: 0.022 ng
RT: 22.430 min Scan# 2421
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:252 Resp: 554
Ion Ratio Lower Upper
252 100
253 89.5 19.6 29.4#
125 80.2 9.6 14.4#



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)

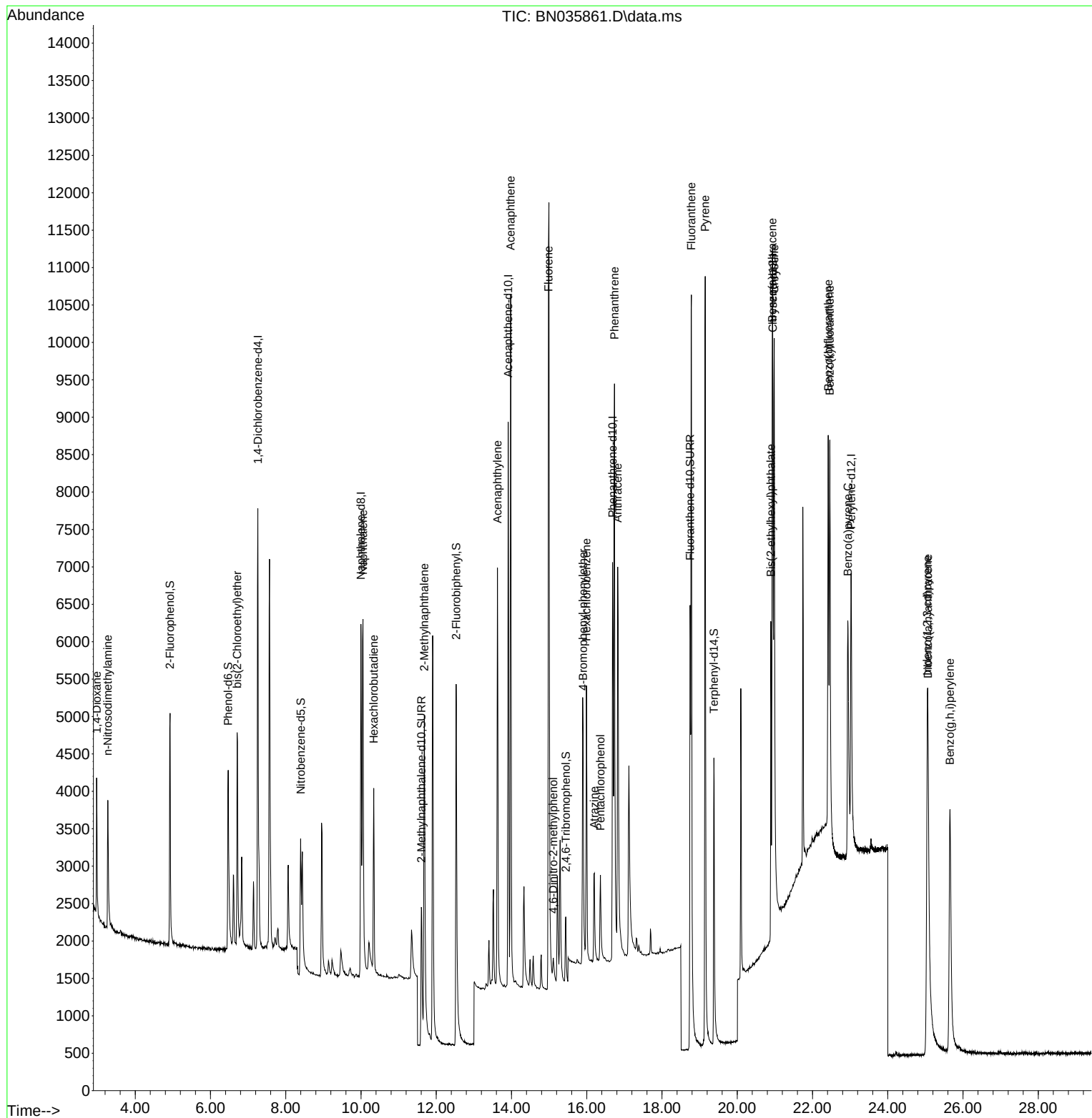
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng	# 0.00
35) Perylene-d12	23.026	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

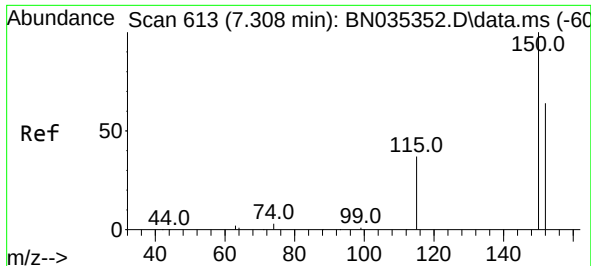
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

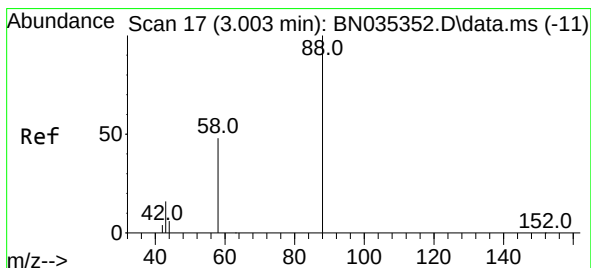
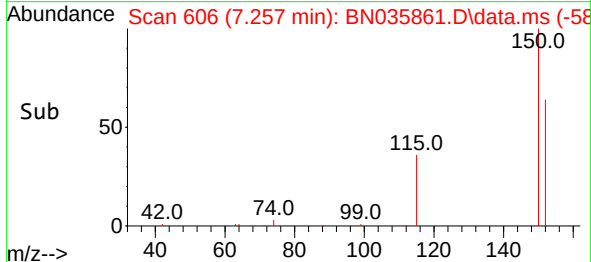
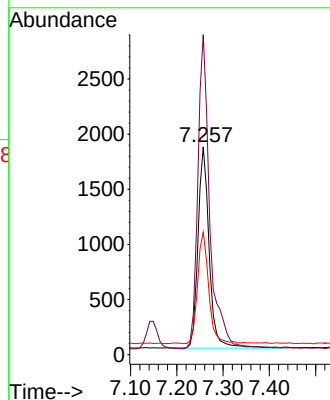
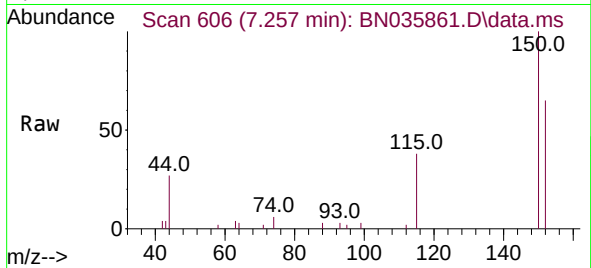




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

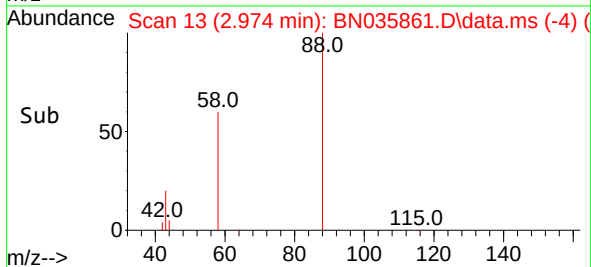
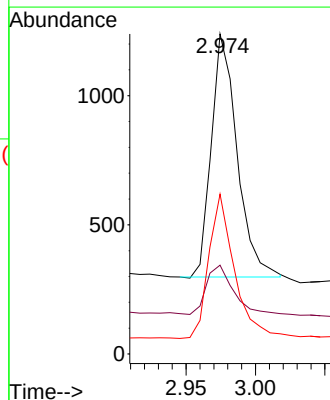
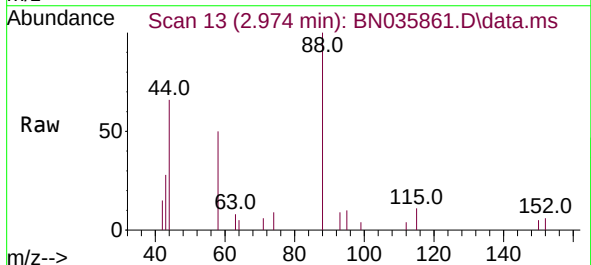
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

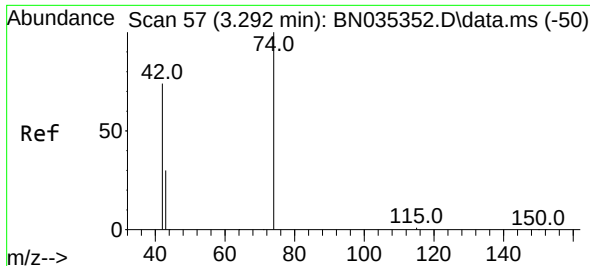
Tgt Ion:152 Resp: 3087
 Ion Ratio Lower Upper
 152 100
 150 154.0 124.0 186.0
 115 58.9 49.6 74.4



#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

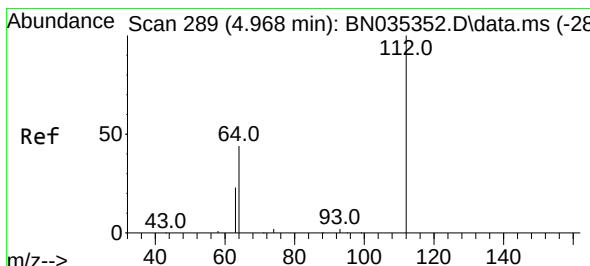
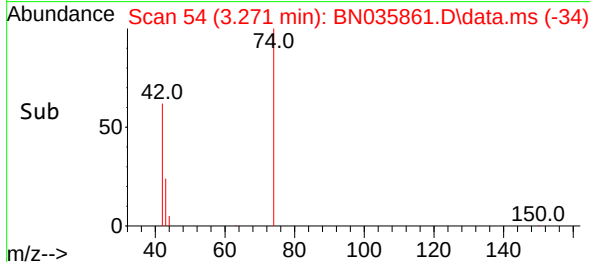
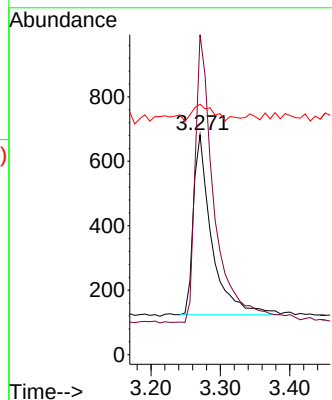
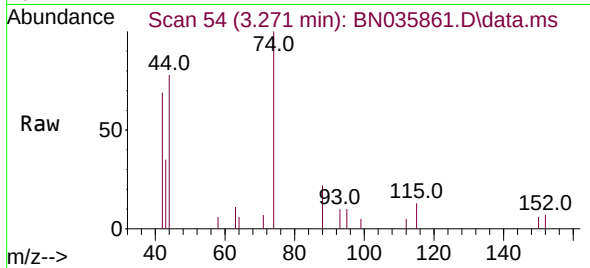




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

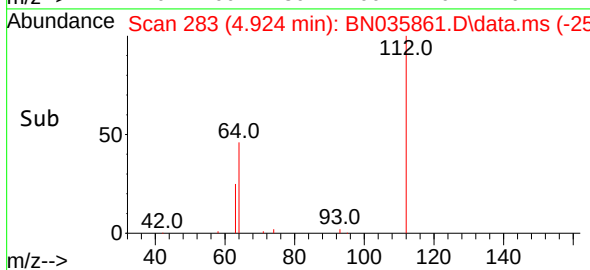
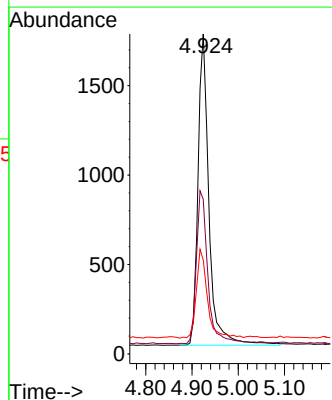
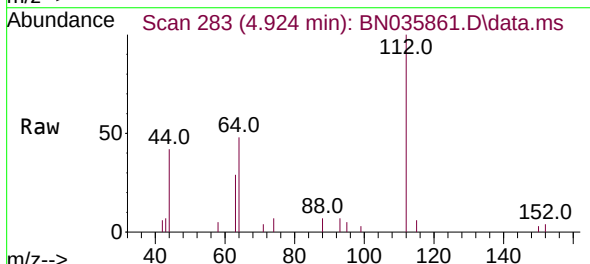
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

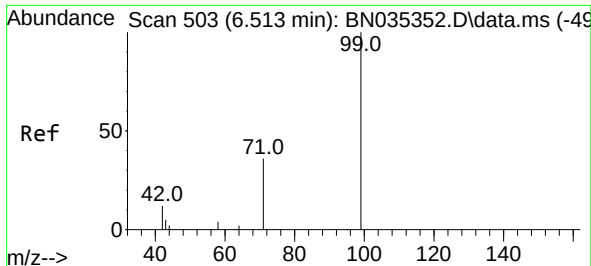
Tgt Ion: 42 Resp: 1021
Ion Ratio Lower Upper
42 100
74 169.1 124.9 187.3
44 10.6 2.2 3.4#



#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# 497

Delta R.T. -0.022 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

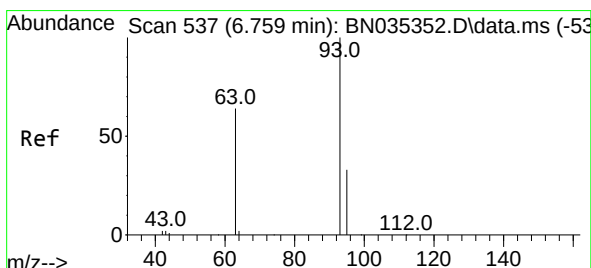
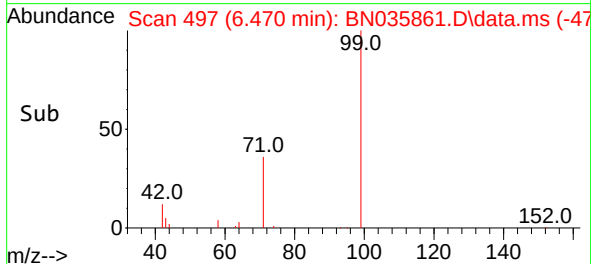
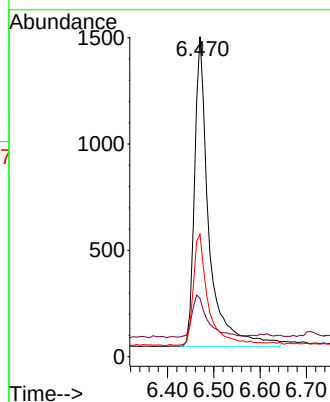
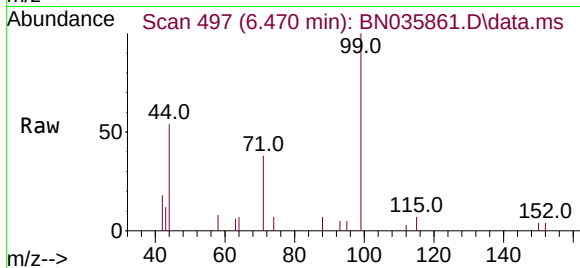
Tgt Ion: 99 Resp: 3155

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

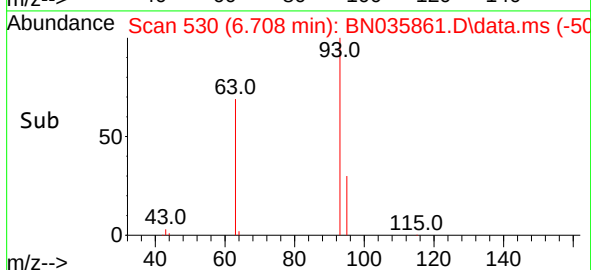
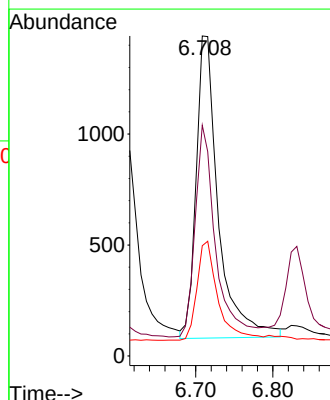
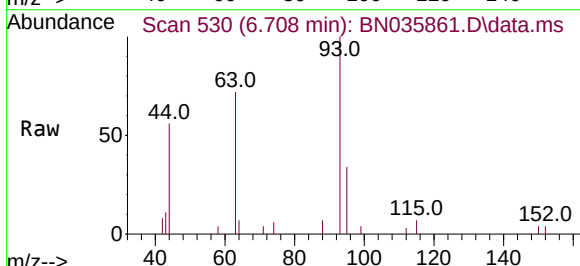
Tgt Ion: 93 Resp: 2725

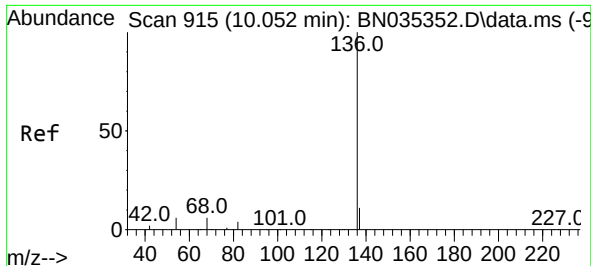
Ion Ratio Lower Upper

93 100

63 64.1 50.4 75.6

95 31.0 25.7 38.5

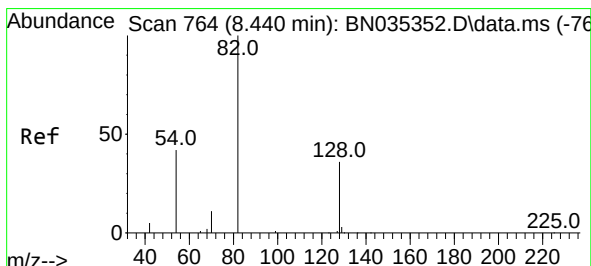
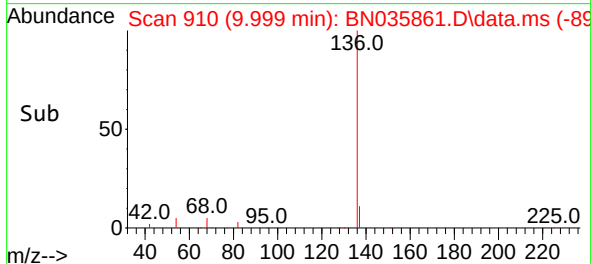
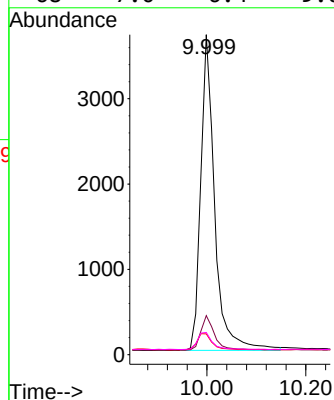
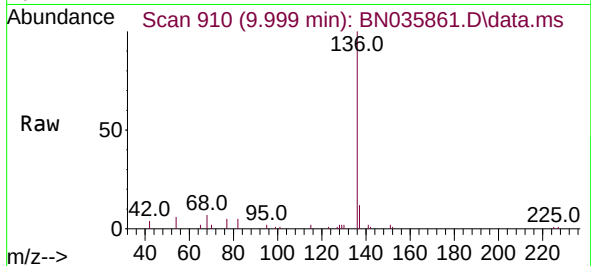




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

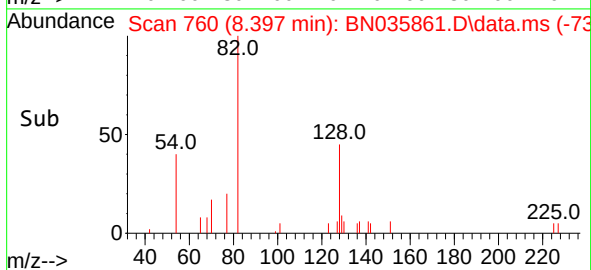
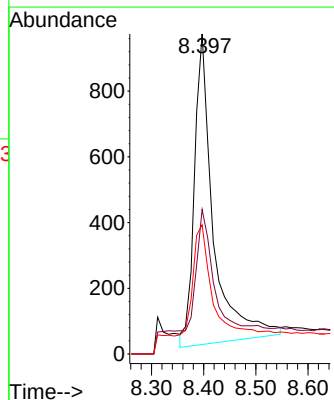
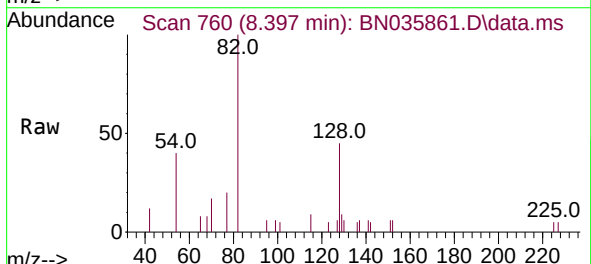
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

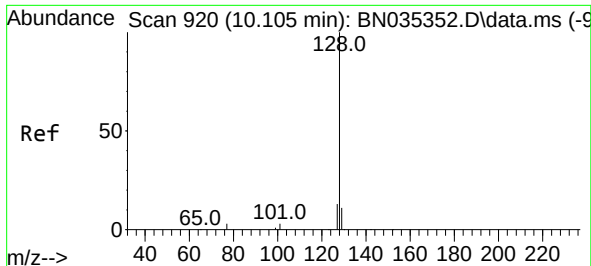
Tgt Ion:	136	Resp:	7239
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6



#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

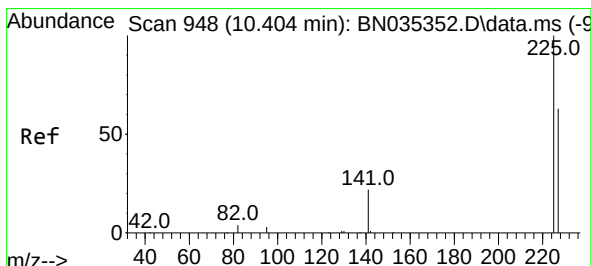
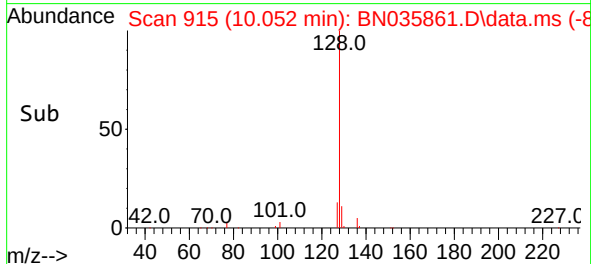
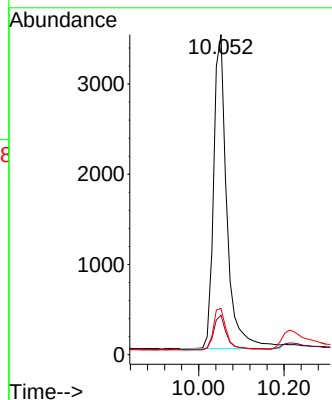
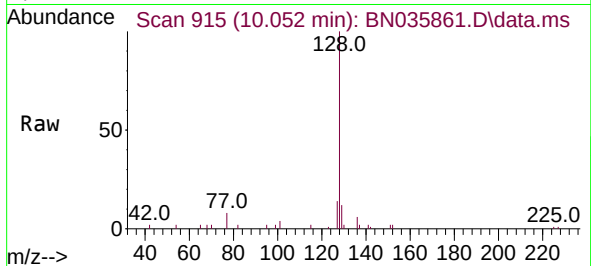




#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

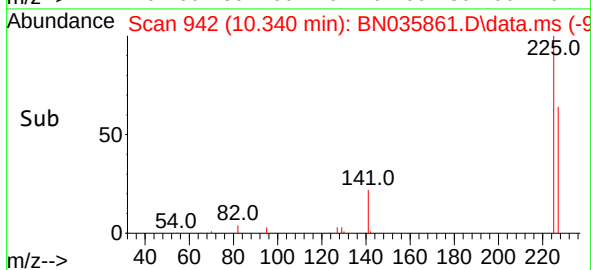
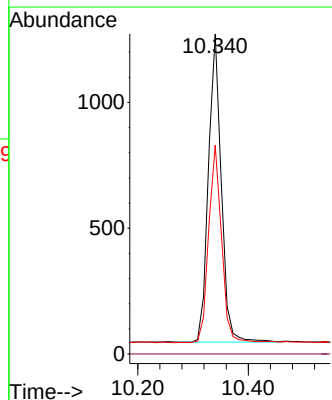
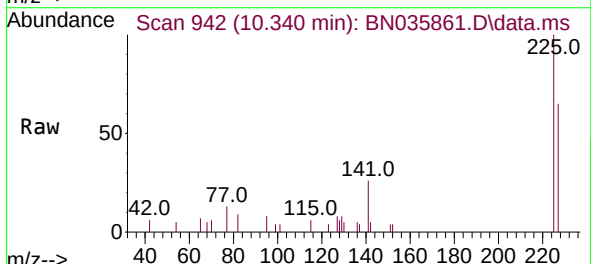
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

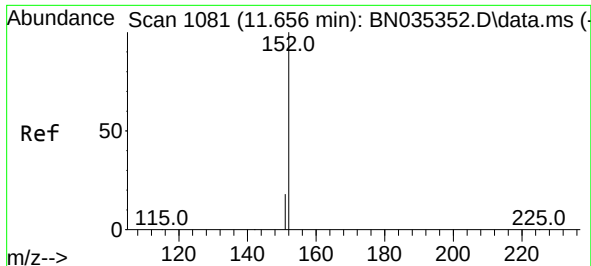
Tgt Ion:128 Resp: 7516
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.5 11.4 17.2



#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

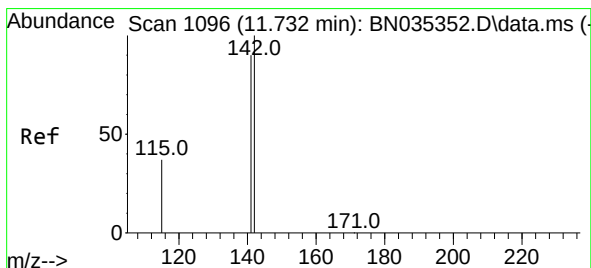
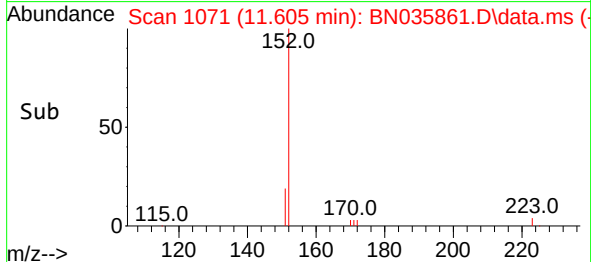
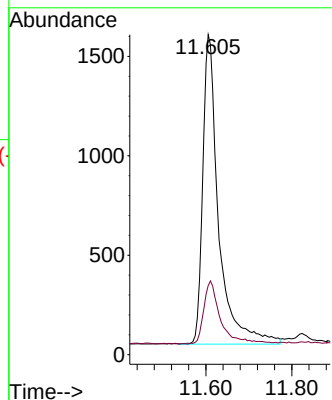
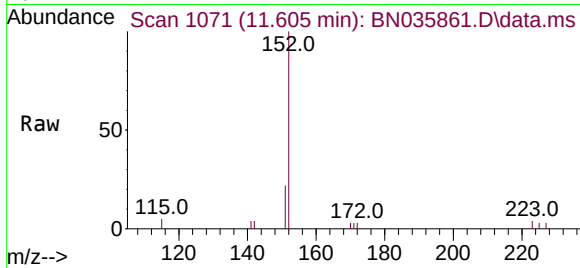




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

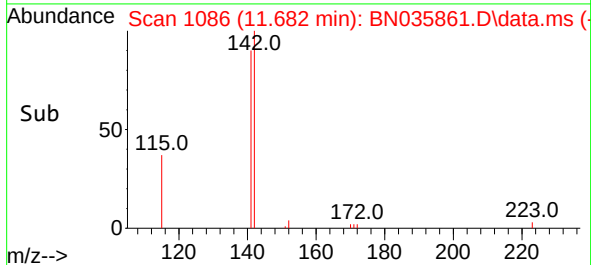
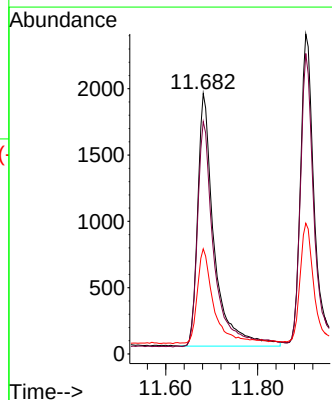
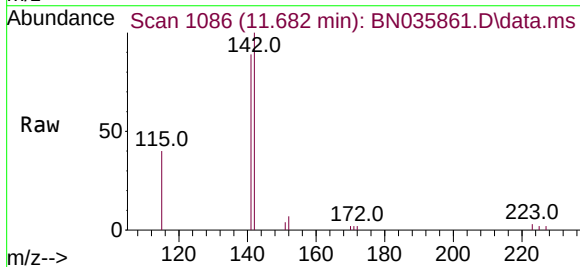
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

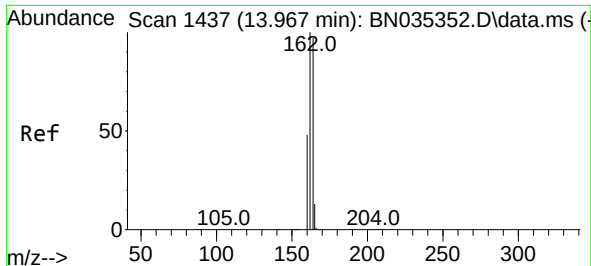
Tgt Ion:152 Resp: 3987
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0



#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

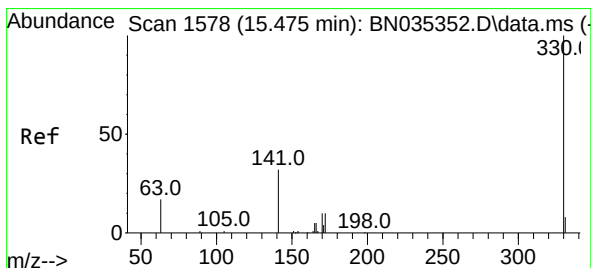
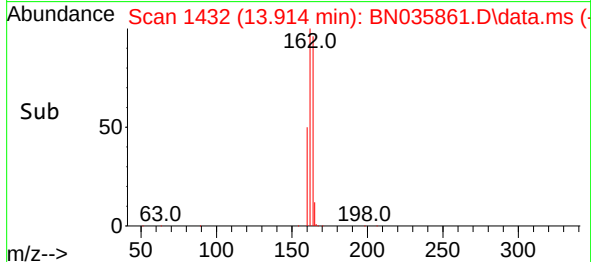
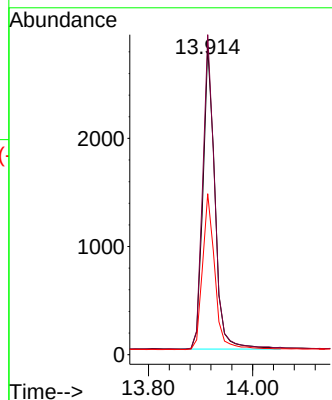
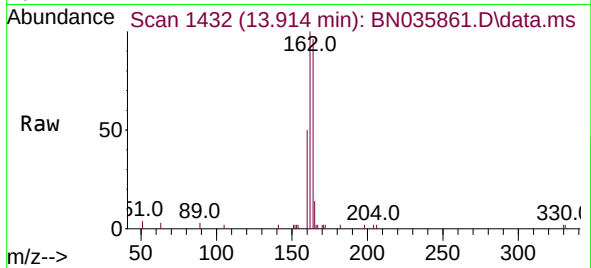




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

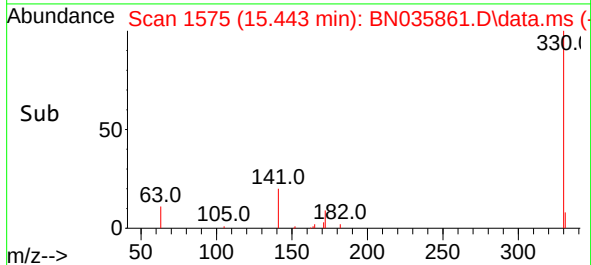
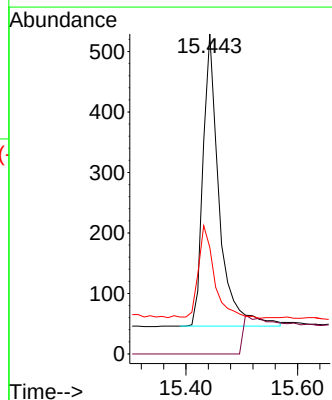
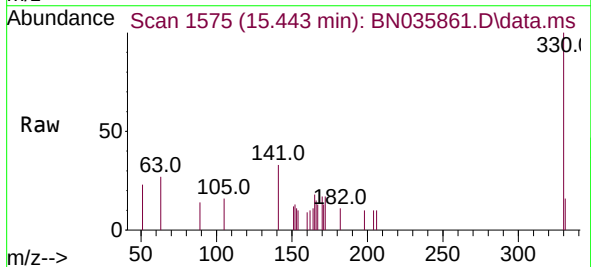
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

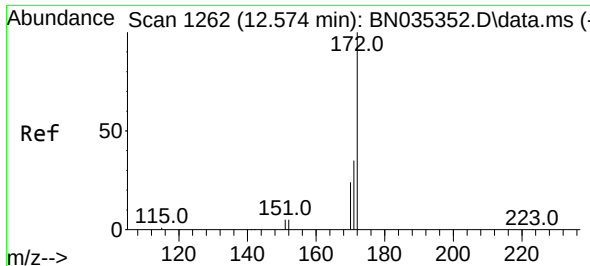
Tgt Ion:164 Resp: 4472
Ion Ratio Lower Upper
164 100
162 104.0 82.2 123.2
160 52.3 40.1 60.1



#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

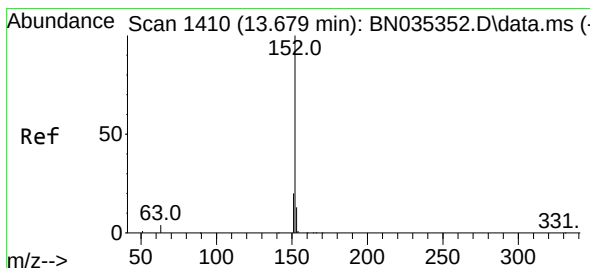
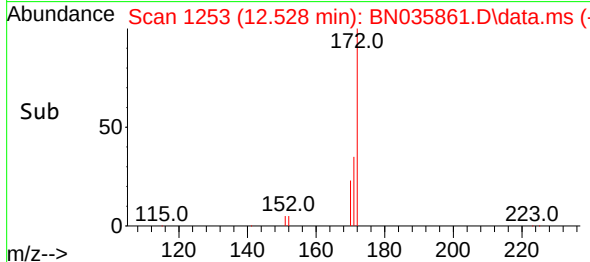
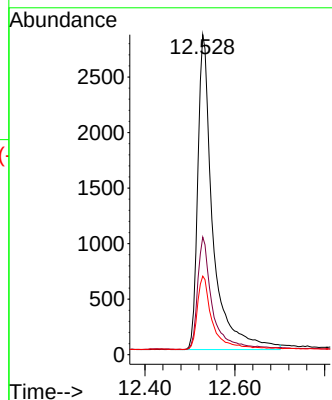
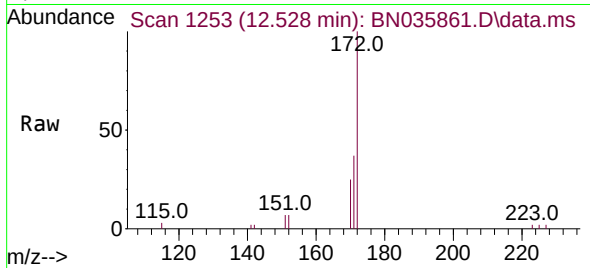




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

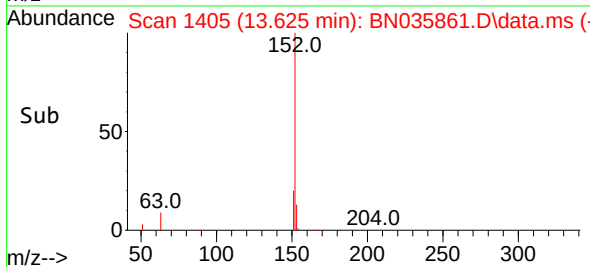
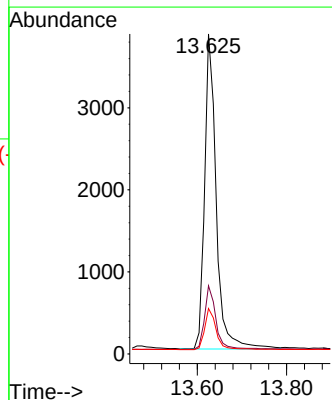
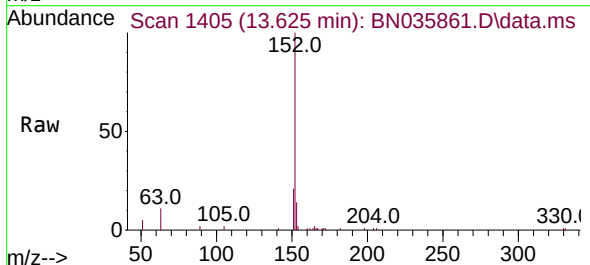
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

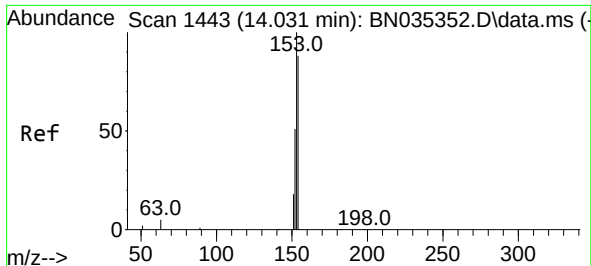
Tgt Ion:172 Resp: 6619
Ion Ratio Lower Upper
172 100
171 36.8 29.0 43.4
170 24.5 19.8 29.8



#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

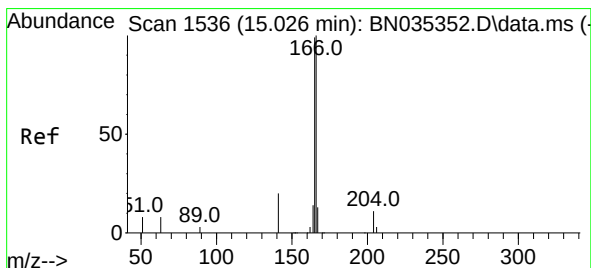
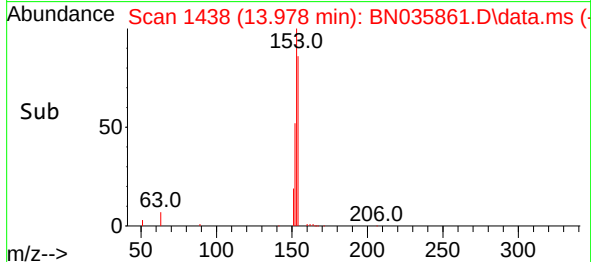
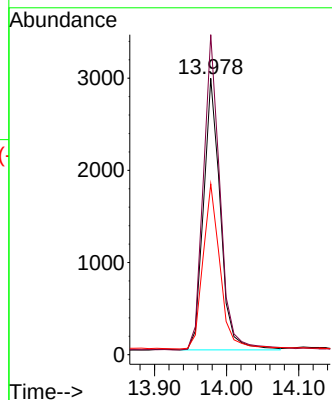
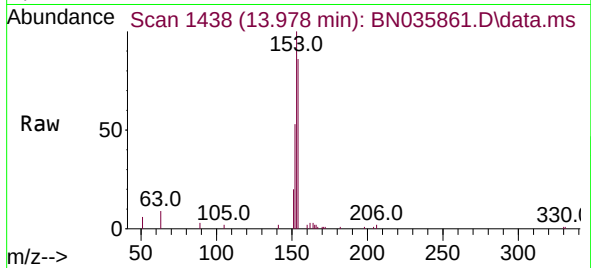




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

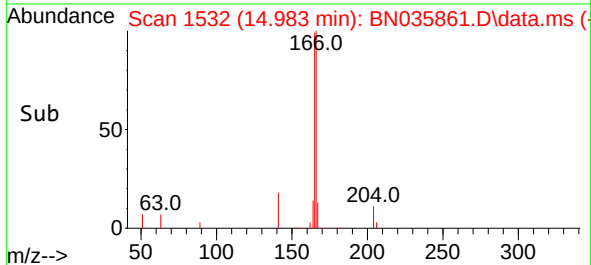
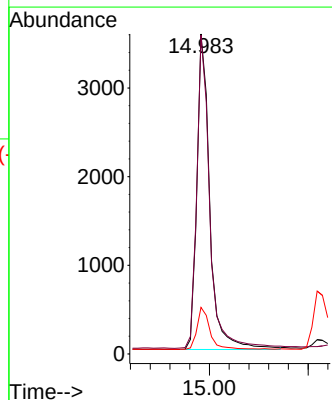
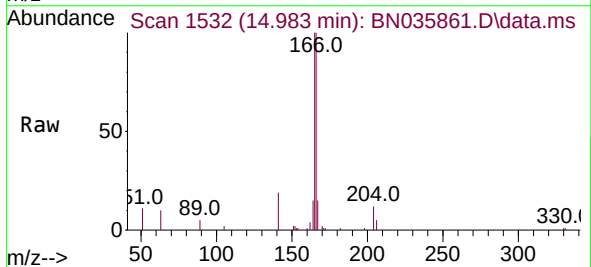
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

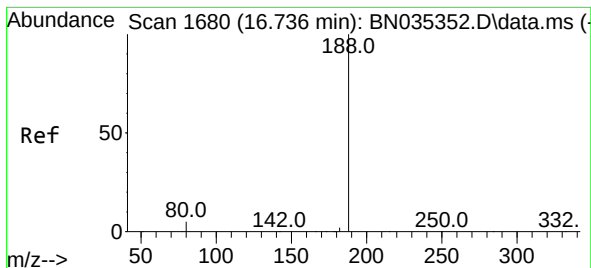
Tgt Ion:154 Resp: 4776
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 62.6 49.0 73.6



#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

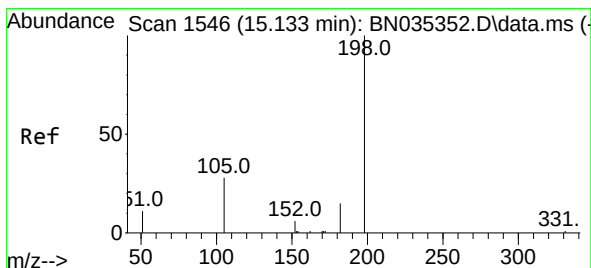
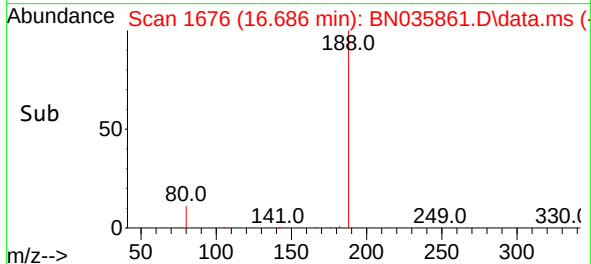
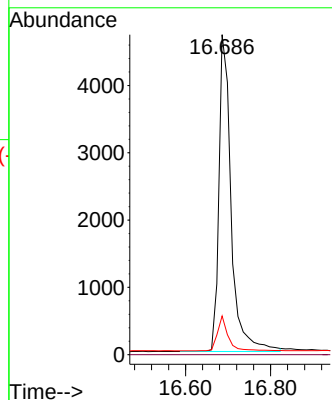
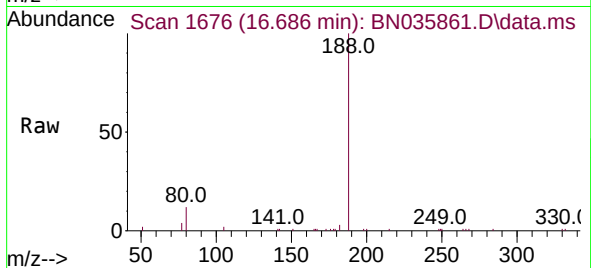
Tgt Ion:188 Resp: 9373

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

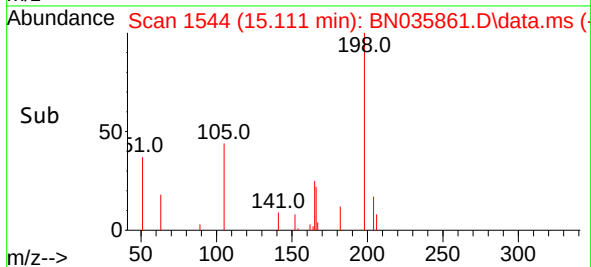
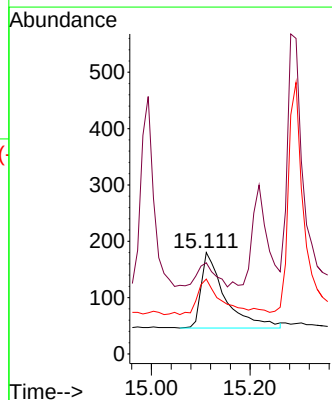
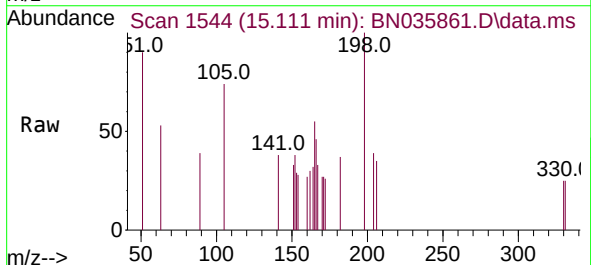
Tgt Ion:198 Resp: 453

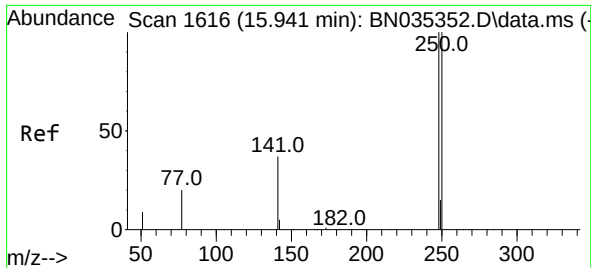
Ion Ratio Lower Upper

198 100

51 90.0 46.5 69.7#

105 73.9 45.3 67.9#

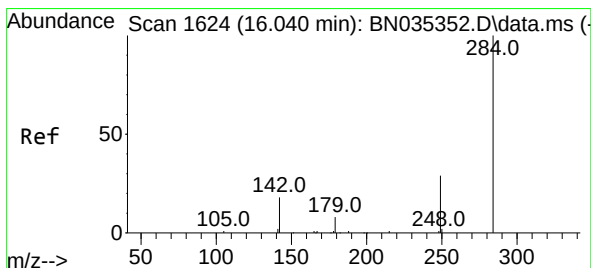
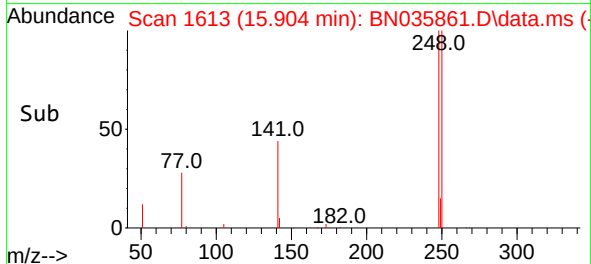
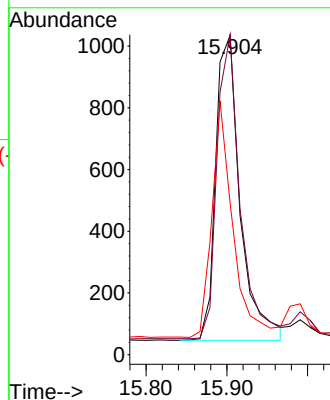
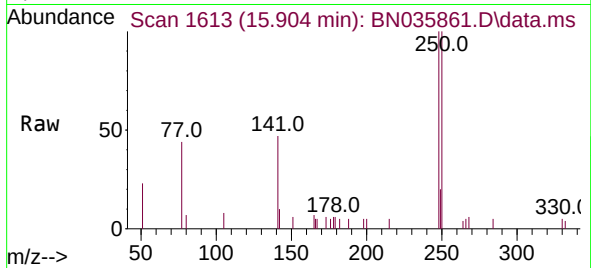




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

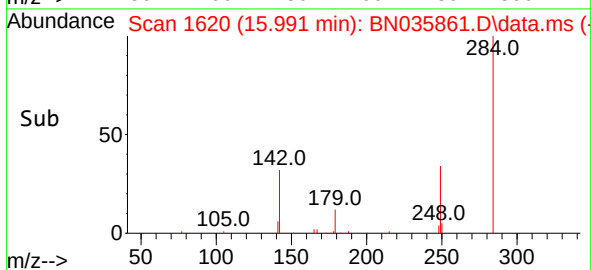
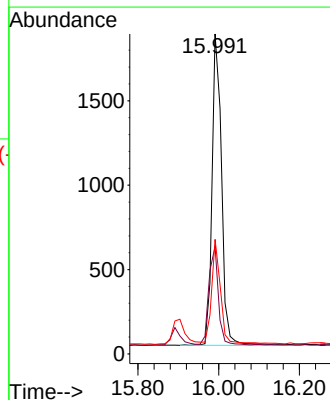
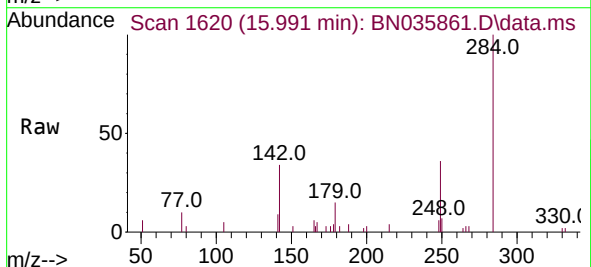
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

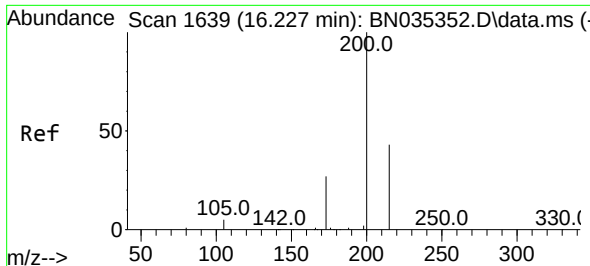
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3



#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	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8

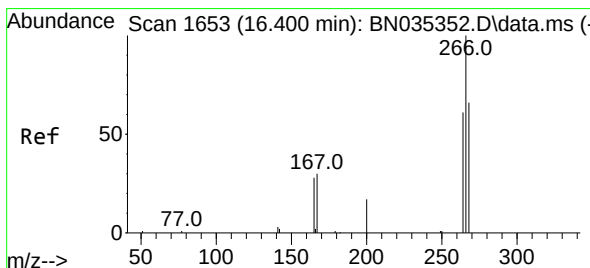
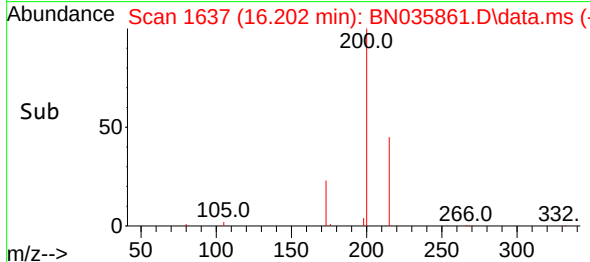
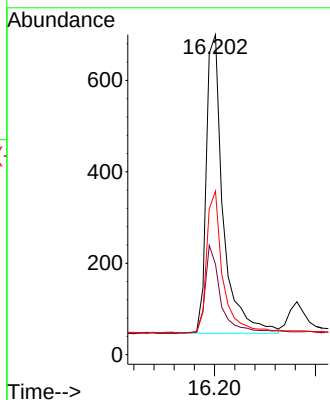
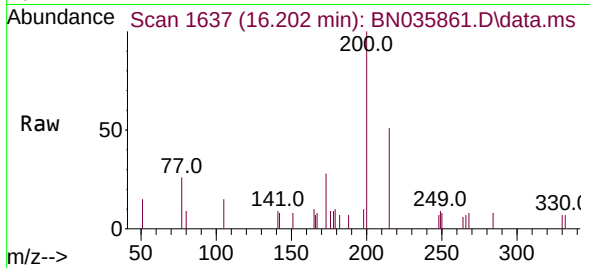




#23
 Atrazine
 Concen: 0.386 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

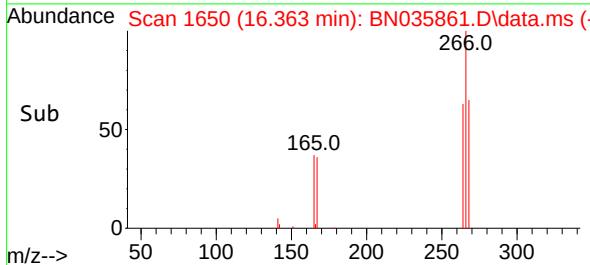
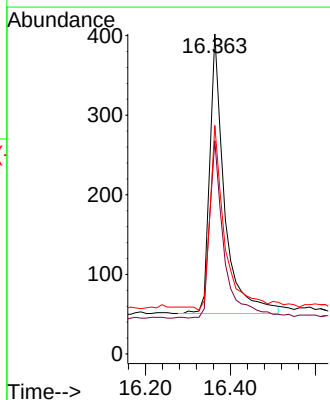
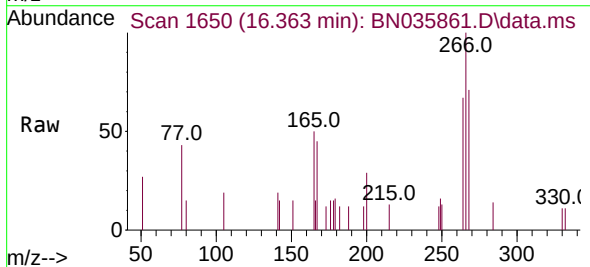
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

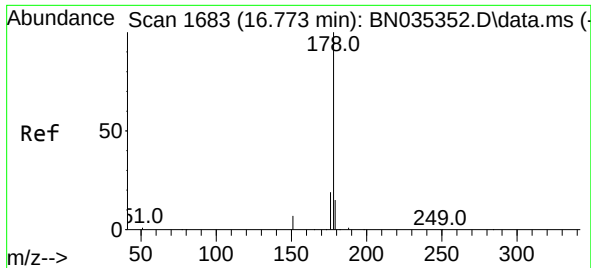
Tgt Ion:200 Resp: 1507
 Ion Ratio Lower Upper
 200 100
 173 28.3 24.1 36.1
 215 51.1 36.9 55.3



#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#

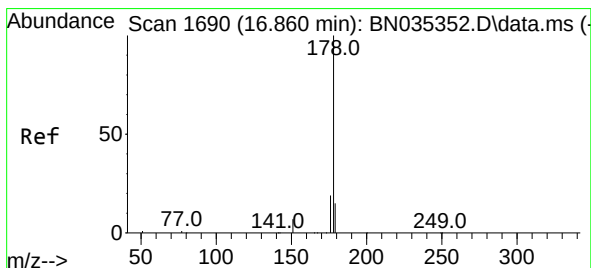
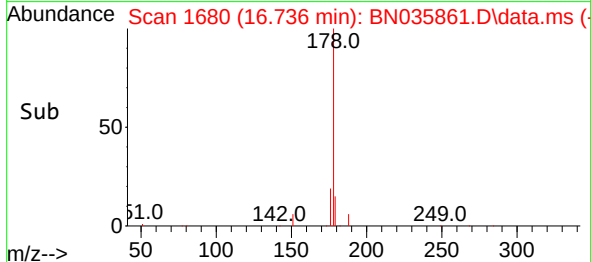
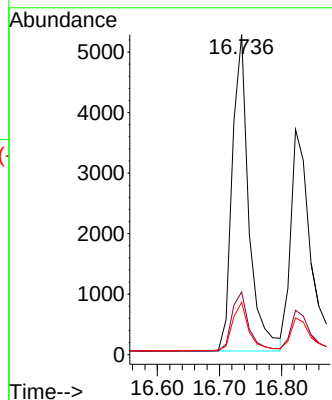
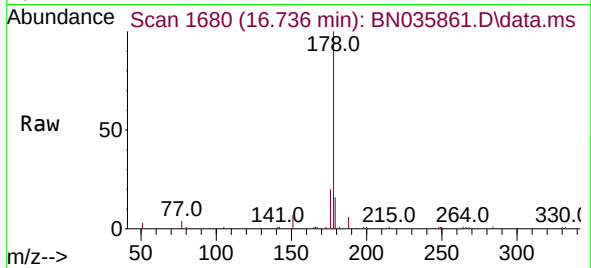




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

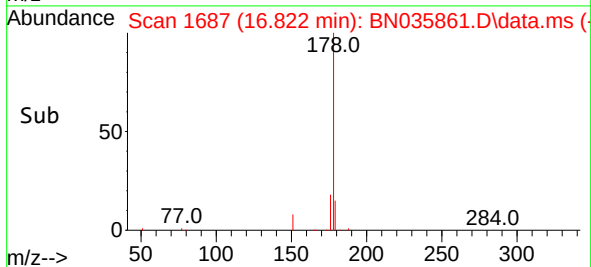
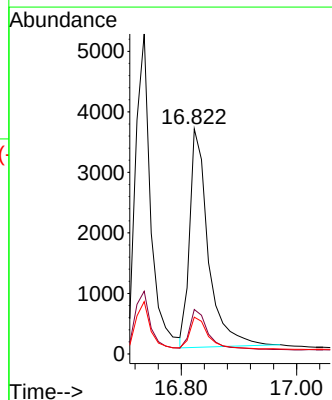
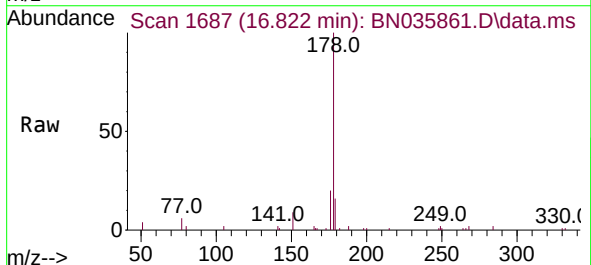
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

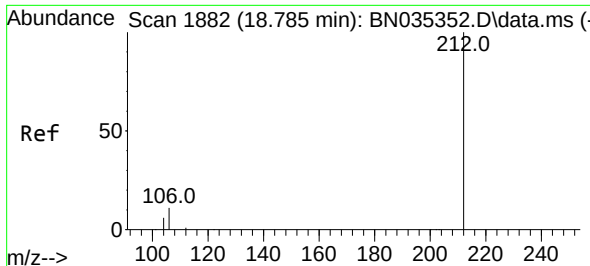
Tgt Ion:178 Resp: 9697
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.3 12.3 18.5



#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# 1874

Delta R.T. -0.014 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

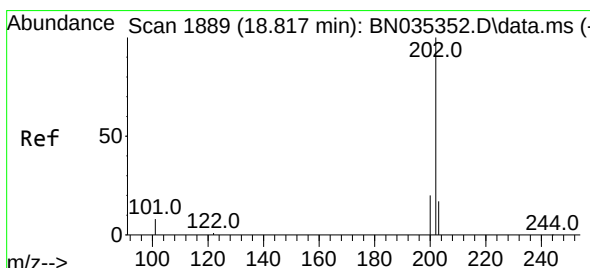
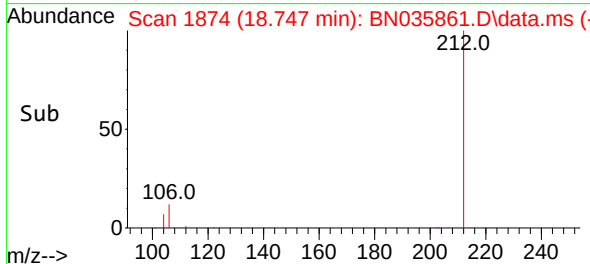
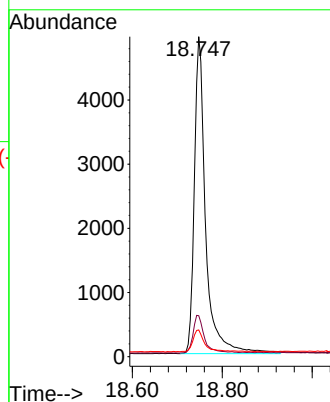
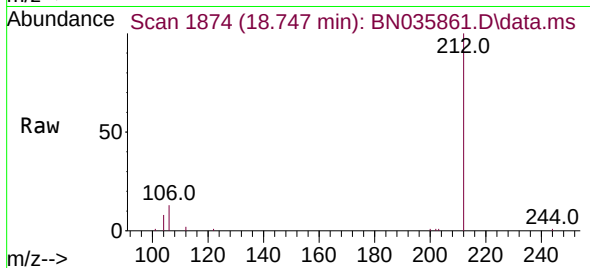
Tgt Ion:212 Resp: 8643

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

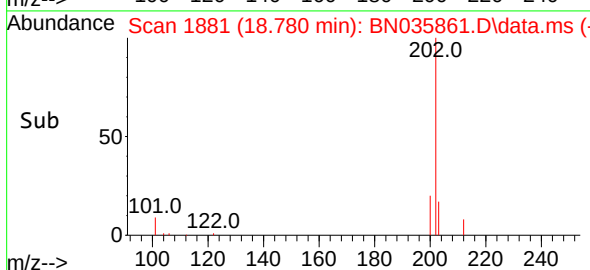
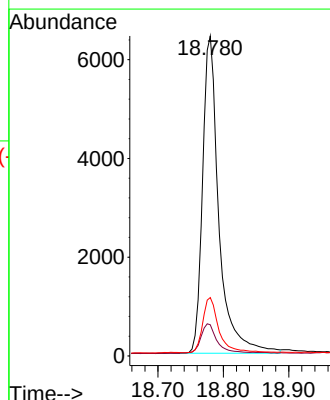
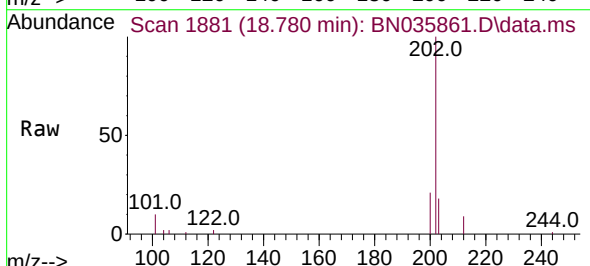
Tgt Ion:202 Resp: 11145

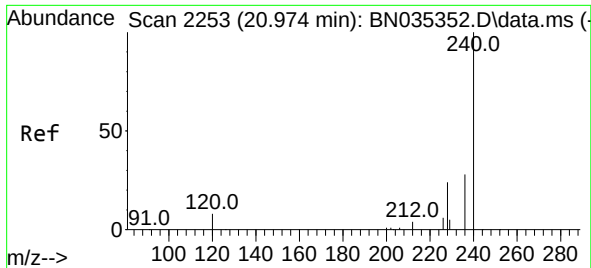
Ion Ratio Lower Upper

202 100

101 9.7 7.4 11.0

203 17.4 13.7 20.5

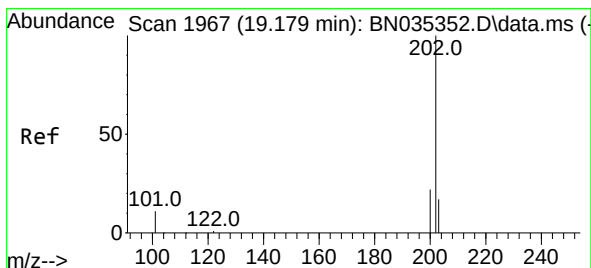
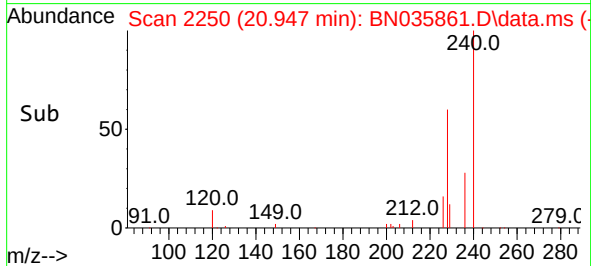
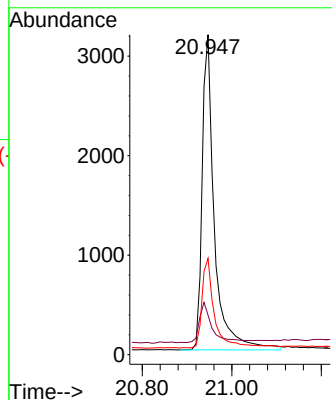
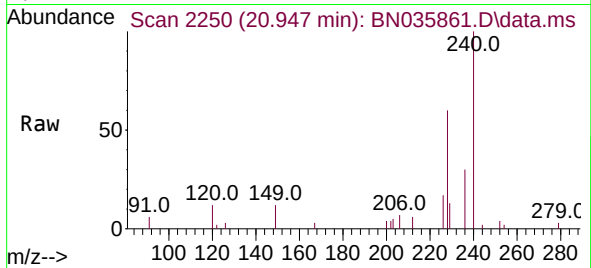




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

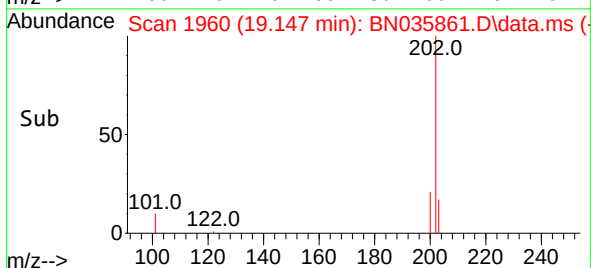
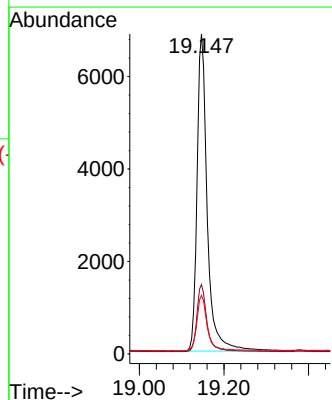
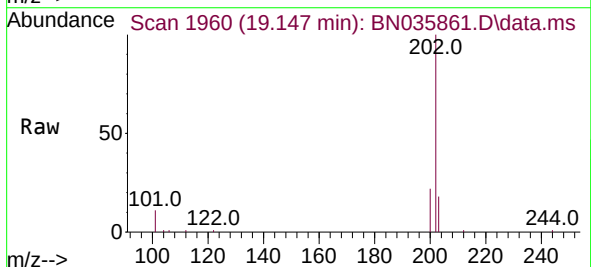
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

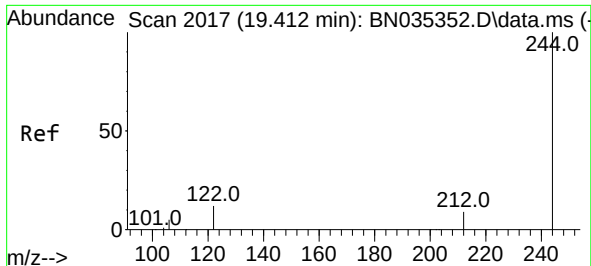
Tgt Ion:240 Resp: 6021
Ion Ratio Lower Upper
240 100
120 12.3 7.9 11.9#
236 30.1 22.9 34.3



#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

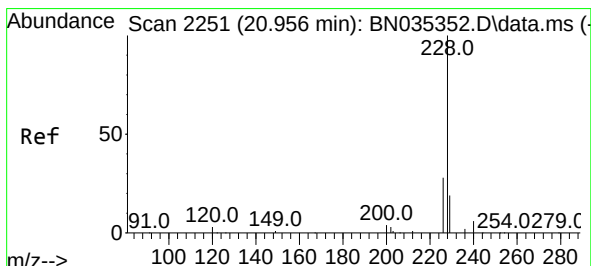
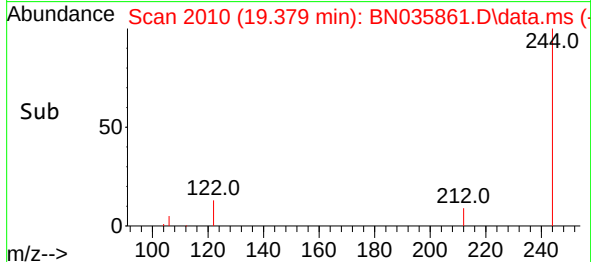
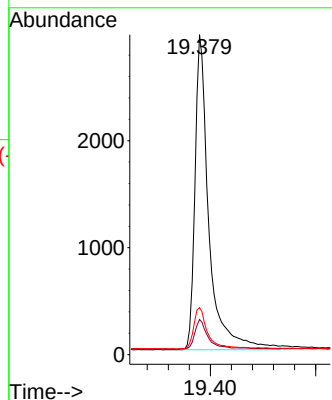
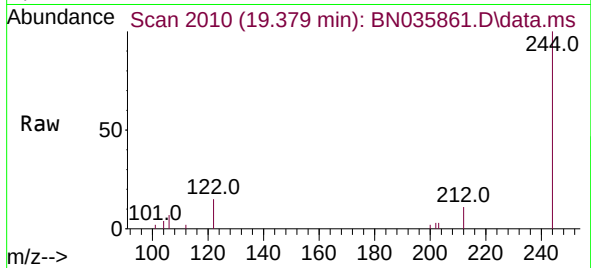




#31
 Terphenyl-d14
 Concen: 0.455 ng
 RT: 19.379 min Scan# 2017
 Delta R.T. -0.009 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

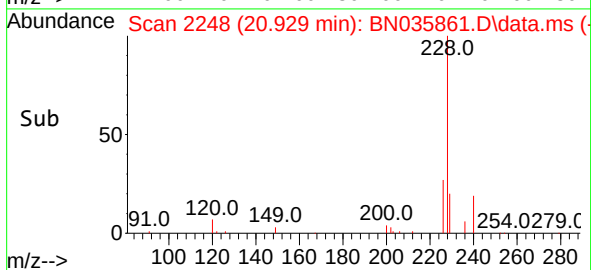
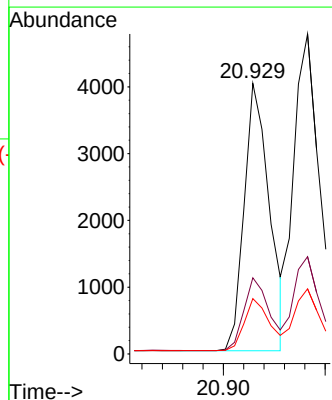
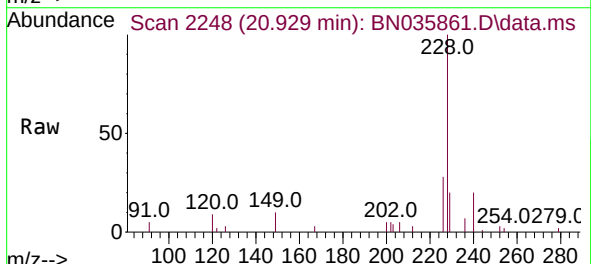
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

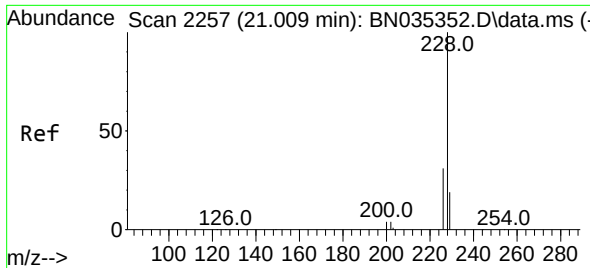
Tgt Ion:244 Resp: 5407
 Ion Ratio Lower Upper
 244 100
 212 11.0 8.1 12.1
 122 14.7 10.3 15.5



#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

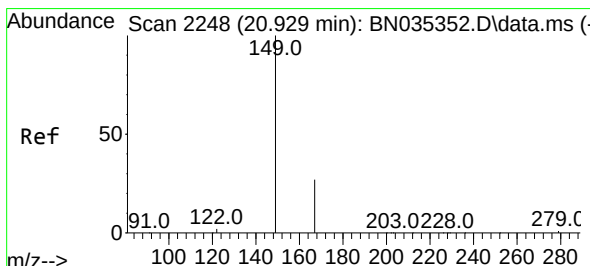
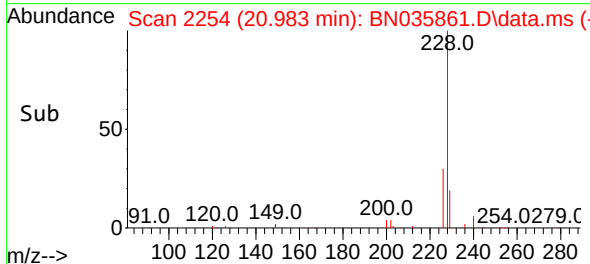
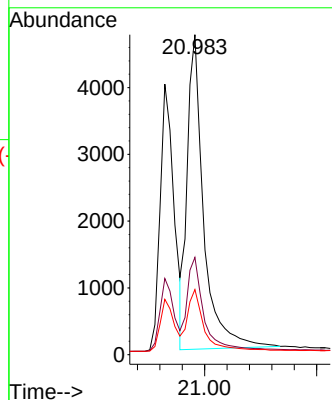
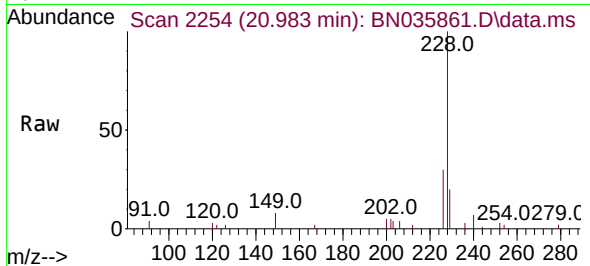




#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

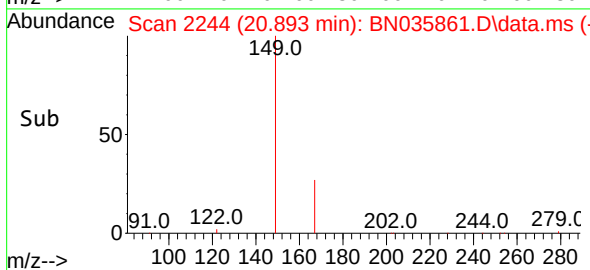
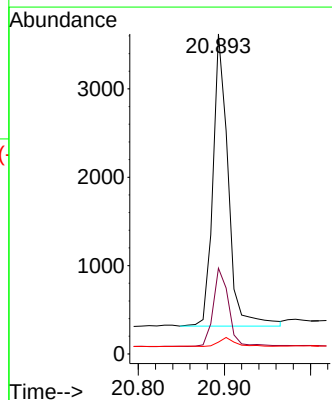
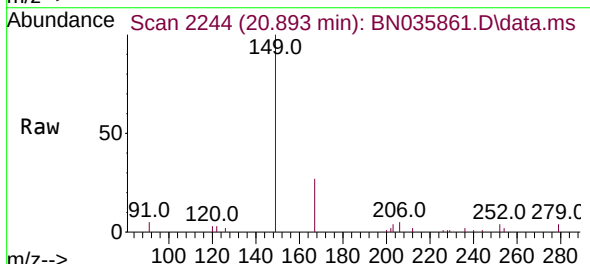
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

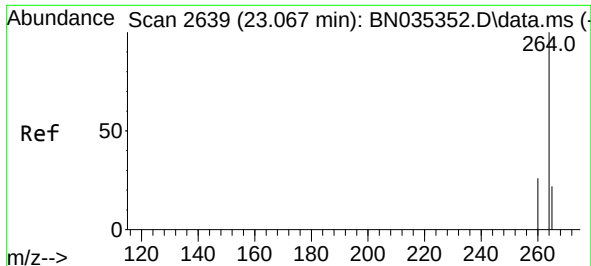
Tgt Ion:228 Resp: 9578
Ion Ratio Lower Upper
228 100
226 30.4 24.6 37.0
229 20.3 15.9 23.9



#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

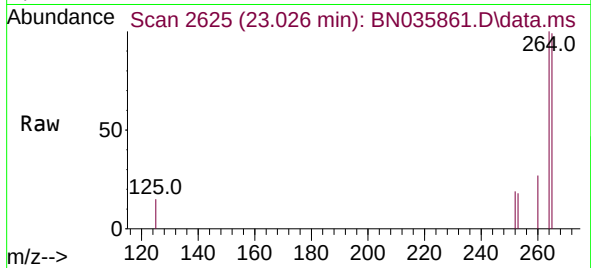
Tgt Ion:149 Resp: 4069
Ion Ratio Lower Upper
149 100
167 27.2 22.2 33.4
279 3.2 2.7 4.1



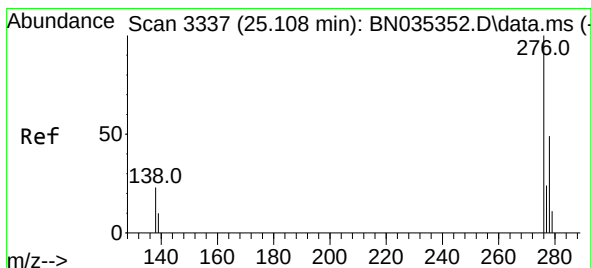
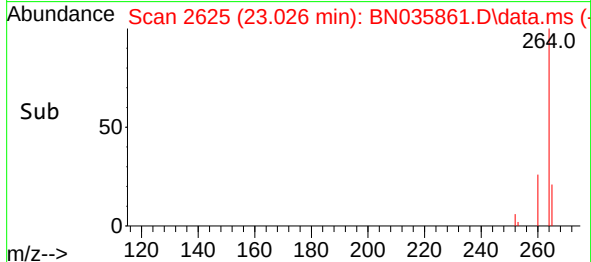
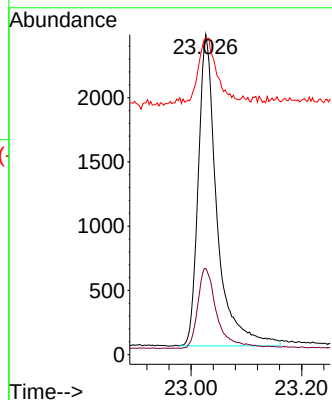


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

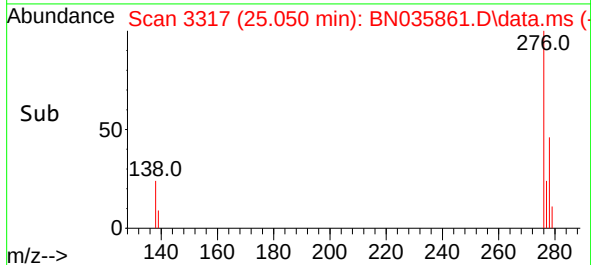
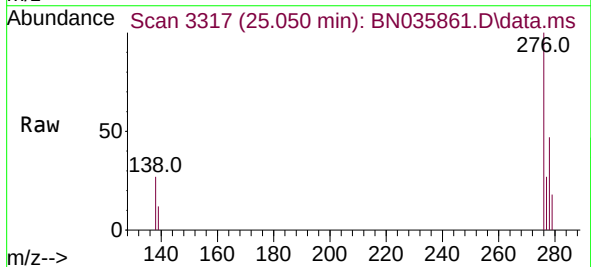
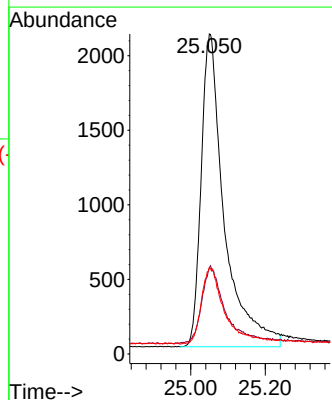


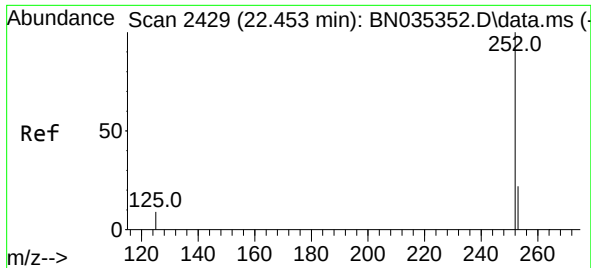
Tgt Ion:264 Resp: 5699
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 99.1 40.2 60.4#



#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

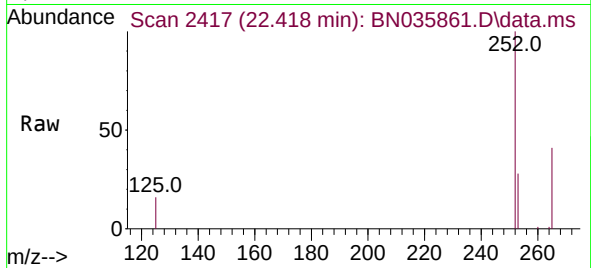
Tgt Ion:276 Resp: 9030
Ion Ratio Lower Upper
276 100
138 24.8 19.4 29.0
277 23.4 19.8 29.6



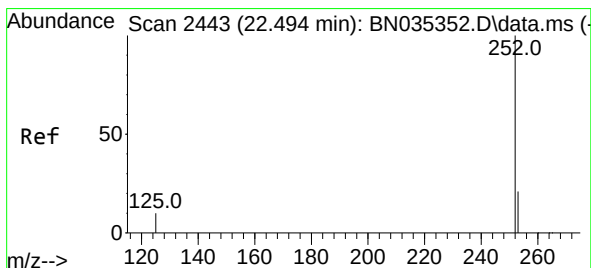
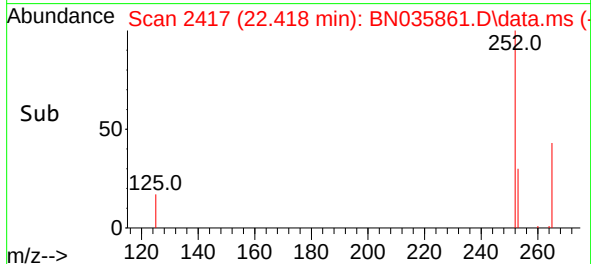
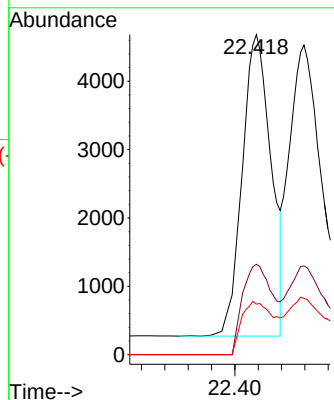


#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

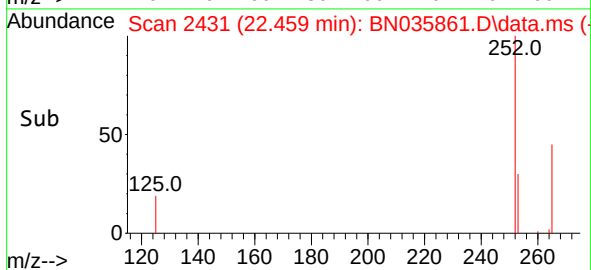
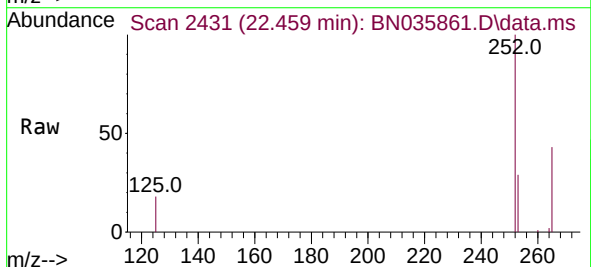
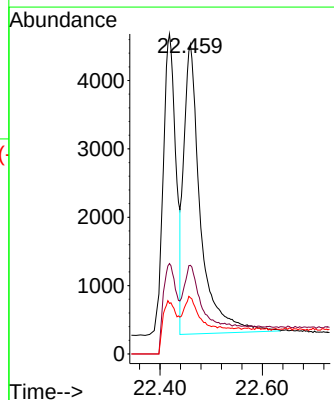


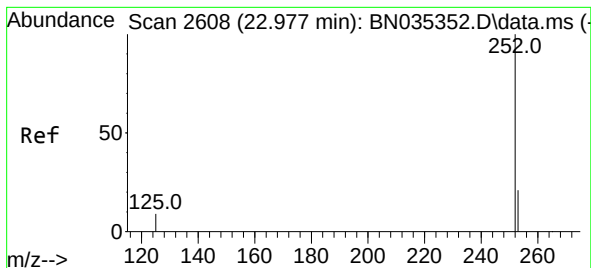
Tgt Ion:252 Resp: 11803
Ion Ratio Lower Upper
252 100
253 28.3 19.6 29.4
125 15.8 9.6 14.4#



#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# 21

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

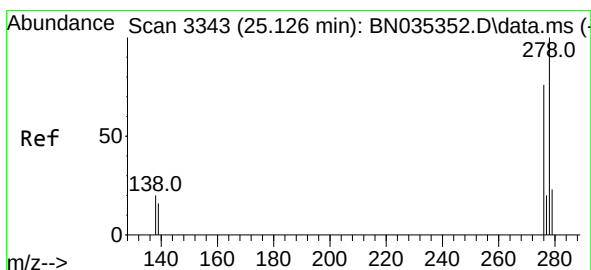
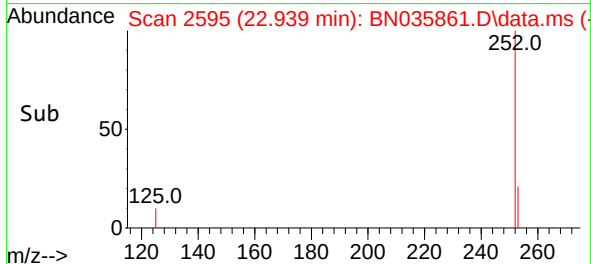
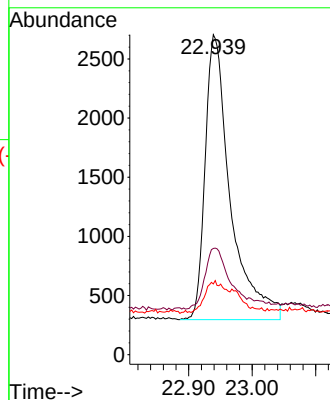
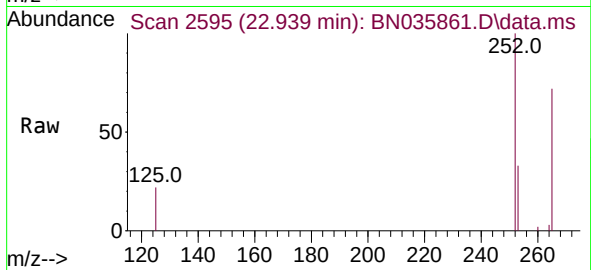
Tgt Ion:252 Resp: 6641

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

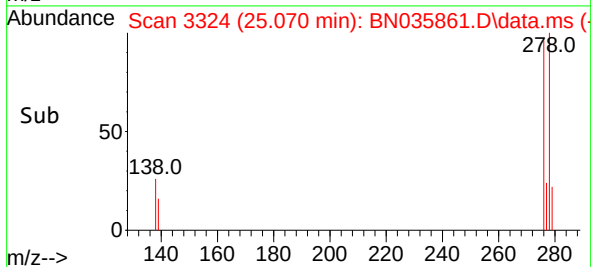
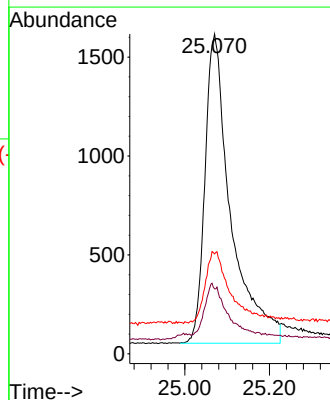
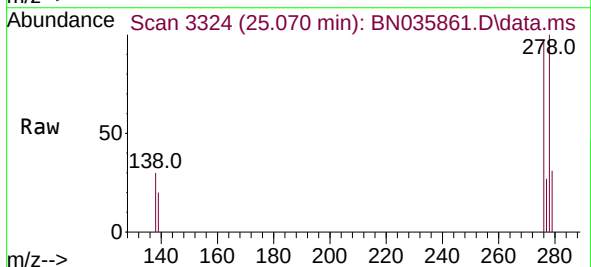
Tgt Ion:278 Resp: 6633

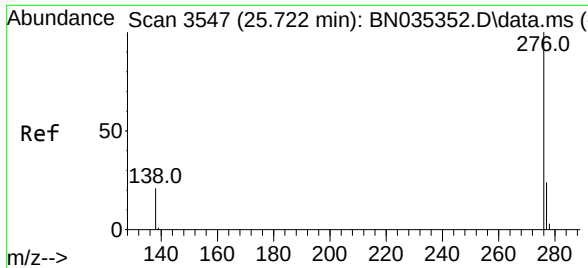
Ion Ratio Lower Upper

278 100

139 20.3 14.2 21.4

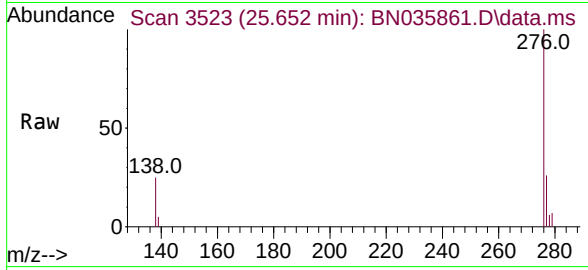
279 31.2 20.5 30.7#





#41
 Benzo(g,h,i)perylene
 Concen: 0.452 ng
 RT: 25.652 min Scan# 31
 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

