

Cover Page

Order ID : P5282

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5282-01
P5282-02
P5282-03
P5282-04

Client Sample Number

RW7-SP100-20241212
RW7-SP201-20241212
RW7-SP302-20241212
RW7-SP303-20241212

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

Signature : _____

Date: 12/27/2024

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P5282

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 12/13/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. 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
RW7-SP100-20241212 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 147%],
RW7-SP100-20241212DL [Nitrobenzene-d5 - 137%, Terphenyl-d14 - 163%],
RW7-SP201-20241212 [Nitrobenzene-d5 - 125%, Terphenyl-d14 - 147%],
RW7-SP302-20241212 [2-Fluorobiphenyl - 110%, Nitrobenzene-d5 - 122%, Terphenyl-d14 - 160%],
RW7-SP303-20241212 [2-Fluorobiphenyl - 117%, Nitrobenzene-d5 - 130%, Terphenyl-d14 - 171%],
PB165667BL [Terphenyl-d14 - 140%],
PB165667BS [Nitrobenzene-d5 - 116%], failing surrogates were not associated with client parameter list, therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P5280-04MS} with File ID: BN035735.D recoveries met the requirements for all compounds except for 1,4-Dioxane[133%] due to matrix interference.

The MSD {P5280-05MSD} with File ID: BN035736.D recoveries met the acceptable requirements except for 1,4-Dioxane[138%] due to matrix interference.



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

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035731.D met the requirements except for 2,4,6-Tribromophenol which is Not associated with client parameter list, therefore no corrective action taken.

The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d6 and Terphenyl-d14 which are Not associated with client parameter list, therefore no corrective action taken.

The Continuous Calibration File ID BN035794.D met the requirements except for 2,4,6-Tribromophenol which is Not associated with client parameter list, therefore no corrective action taken.

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5 which is Not associated with client parameter list, therefore no corrective action taken.

The Tuning criteria met requirements.

Sample RW7-SP100-20241212 was diluted due to high concentration.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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



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

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: P5282

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 BN035731.D met the requirements except for 2,4,6-Tribromophenol which is Not associated with client parameter list, therefore no corrective action taken.

The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol,2-Fluorobiphenyl,2-Fluorophenol,Nitrobenzene-d5,Phenol-d6 and Terphenyl-d14 which are Not associated with client parameter list, therefore no corrective action taken.

The Continuous Calibration File ID BN035794.D met the requirements except for 2,4,6-Tribromophenol which is Not associated with client parameter list, therefore no corrective action taken.

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5 which is Not associated with client parameter list, therefore no corrective action taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

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**(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 RW7-SP100-20241212 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 147%], RW7-SP100-20241212DL [Nitrobenzene-d5 - 137%, Terphenyl-d14 - 163%], RW7-SP201-20241212 [Nitrobenzene-d5 - 125%, Terphenyl-d14 - 147%], RW7-SP302-20241212 [2-Fluorobiphenyl - 110%, Nitrobenzene-d5 - 122%, Terphenyl-d14 - 160%], RW7-SP303-20241212 [2-Fluorobiphenyl - 117%, Nitrobenzene-d5 - 130%, Terphenyl-d14 - 171%], PB165667BL [Terphenyl-d14 - 140%], PB165667BS [Nitrobenzene-d5 - 116%], failing surrogates were not associated with client parameter list, therefore no corrective action 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 {P5280-04MS} with File ID: BN035735.D recoveries met the requirements for all compounds except for 1,4-Dioxane[133%] due to matrix interference.			
The MSD {P5280-05MSD} with File ID: BN035736.D recoveries met the acceptable requirements except for 1,4-Dioxane[138%] due to matrix interference.			
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:			

ADDITIONAL COMMENTS:

Sample RW7-SP100-20241212 was diluted due to high concentration.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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.

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

(CONTINUED)

NA NO YES

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5282

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/27/2024

LAB CHRONICLE

OrderID:	P5282	OrderDate:	12/13/2024 1:06:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5282-01	RW7-SP100-2024121 2	Water			12/12/24			12/13/24
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5282-01DL	RW7-SP100-2024121 2DL	Water			12/12/24			12/13/24
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/26/24	
P5282-02	RW7-SP201-2024121 2	Water			12/12/24			12/13/24
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5282-03	RW7-SP302-2024121 2	Water			12/12/24			12/13/24
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	
P5282-04	RW7-SP303-2024121 2	Water			12/12/24			12/13/24
			SVOC-SIMGroup1	8270-Modified		12/16/24	12/24/24	



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

Hit Summary Sheet
SW-846

SDG No.: P5282
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP100-20241212								
P5282-01	RW7-SP100-20241212	WATER	1,4-Dioxane	6.000	E	0.07	0.2	ug/L
			Total Svoc :	6.00				
			Total Concentration:	6.00				
Client ID : RW7-SP100-20241212DL								
P5282-01DL	RW7-SP100-20241212DI	WATER	1,4-Dioxane	6.600	D	0.14	0.4	ug/L
			Total Svoc :	6.60				
			Total Concentration:	6.60				
Client ID : RW7-SP302-20241212								
P5282-03	RW7-SP302-20241212	WATER	1,4-Dioxane	0.260		0.07	0.2	ug/L
			Total Svoc :	0.26				
			Total Concentration:	0.26				
Client ID : RW7-SP303-20241212								
P5282-04	RW7-SP303-20241212	WATER	1,4-Dioxane	0.260		0.07	0.2	ug/L
			Total Svoc :	0.26				
			Total Concentration:	0.26				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P5282

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5280-04MS	BPOW6-11-20241212MS	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.28	70		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5280-05MSD	BPOW6-11-20241212MSD	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5282-01	RW7-SP100-20241212	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
P5282-01DL	RW7-SP100-20241212DL	2-Methylnaphthalene-d10	0.4	0.42	106		30	150
		Fluoranthene-d10	0.4	0.53	132		30	150
		Nitrobenzene-d5	0.4	0.55	137	*	55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.65	163	*	58	132
P5282-02	RW7-SP201-20241212	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.50	125	*	55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
P5282-03	RW7-SP302-20241212	2-Methylnaphthalene-d10	0.4	0.41	103		30	150
		Fluoranthene-d10	0.4	0.51	128		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
P5282-04	RW7-SP303-20241212	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.53	133		30	150
		Nitrobenzene-d5	0.4	0.52	130	*	55	111
		2-Fluorobiphenyl	0.4	0.47	117	*	53	106
		Terphenyl-d14	0.4	0.68	171	*	58	132
PB165667BL	PB165667BL	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
PB165667BS	PB165667BS	2-Methylnaphthalene-d10	0.4	0.46	115		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.47	116	*	55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.43	108		58	132



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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5282

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

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



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

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: P5282

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P5280-05MSD		Client Sample ID:	BPOW6-11-20241212MSD					DataFile:	BN035736.D		
1,4-Dioxane	0.4	0	0.55	ug/L	138	*	4		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5282

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035808.D

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165667BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5282

SAS No.: P5282 SDG NO.: P5282

Lab File ID: BN035795.D

Lab Sample ID: PB165667BL

Instrument ID: BNA_N

Date Extracted: 12/16/2024

Matrix: (soil/water) Water

Date Analyzed: 12/23/2024

Level: (low/med) LOW

Time Analyzed: 22:52

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165667BS	PB165667BS	BN035808.D	12/24/2024
BPOW6-11-20241212MS	P5280-04MS	BN035735.D	12/20/2024
BPOW6-11-20241212MSD	P5280-05MSD	BN035736.D	12/20/2024
RW7-SP100-20241212	P5282-01	BN035801.D	12/24/2024
RW7-SP201-20241212	P5282-02	BN035802.D	12/24/2024
RW7-SP302-20241212	P5282-03	BN035803.D	12/24/2024
RW7-SP303-20241212	P5282-04	BN035804.D	12/24/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5282SDG NO.: P5282Lab 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	70.8
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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5282 SDG NO.: P5282Lab File ID: BN035730.DDFTPP Injection Date: 12/20/2024Instrument ID: BNA_NDFTPP Injection Time: 07:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	38.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	78.5
443	15.0 - 24.0% of mass 442	15.5 (19.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035731.D	12/20/2024	08:04
BPOW6-11-20241212MS	P5280-04MS	BN035735.D	12/20/2024	11:05
BPOW6-11-20241212MSD	P5280-05MSD	BN035736.D	12/20/2024	11:41
SSTDCCC0.4EC	SSTDCCC0.4	BN035747.D	12/20/2024	18:18



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5282 SDG NO.: P5282Lab File ID: BN035793.DDFTPP Injection Date: 12/23/2024Instrument ID: BNA_NDFTPP Injection Time: 20:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	32.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	61.1
443	15.0 - 24.0% of mass 442	13.8 (22.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035794.D	12/23/2024	22:16
PB165667BL	PB165667BL	BN035795.D	12/23/2024	22:52
RW7-SP100-20241212	P5282-01	BN035801.D	12/24/2024	02:25
RW7-SP201-20241212	P5282-02	BN035802.D	12/24/2024	03:00
RW7-SP302-20241212	P5282-03	BN035803.D	12/24/2024	03:36
RW7-SP303-20241212	P5282-04	BN035804.D	12/24/2024	04:12
PB165667BS	PB165667BS	BN035808.D	12/24/2024	06:34
SSTDCCC0.4EC	SSTDCCC0.4	BN035809.D	12/24/2024	07:09



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5282 SDG NO.: P5282Lab 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	68.6
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
RW7-SP100-20241212DL	P5282-01DL	BN035857.D	12/26/2024	17:18
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.: P5282 SAS No.: P5282 SDG NO.: P5282

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

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

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

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

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.: P5282 SAS No.: P5282 SDG NO.: P5282

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

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

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

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

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.: P5282 SAS No.: P5282 SDG NO.: P5282

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

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

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3234	7.264	7877	10.01	4482	13.92
UPPER LIMIT	6468	7.764	15754	10.509	8964	14.424
LOWER LIMIT	1617	6.764	3938.5	9.509	2241	13.424
EPA SAMPLE NO.						
01 RW7-SP100-20241212	3177	7.26	7310	10.01	4565	13.93
02 RW7-SP201-20241212	3105	7.27	7312	10.01	4411	13.93
03 RW7-SP302-20241212	2931	7.26	6518	10.01	3960	13.92
04 RW7-SP303-20241212	3113	7.26	7128	10.01	4215	13.92
05 PB165667BL	4926	7.26	11442	10.01	7253	13.92
06 PB165667BS	4067	7.26	9754	10.01	5527	13.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG NO.: P5282

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

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

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	8845	16.698	7163	20.947	7277	23.032
UPPER LIMIT	17690	17.198	14326	21.447	14554	23.532
LOWER LIMIT	4422.5	16.198	3581.5	20.447	3638.5	22.532
EPA SAMPLE NO.						
01 RW7-SP100-20241212	8849	16.70	7146	20.95	6969	23.03
02 RW7-SP201-20241212	8736	16.70	7014	20.95	4957	23.04
03 RW7-SP302-20241212	7717	16.70	6406	20.95	6112	23.03
04 RW7-SP303-20241212	8493	16.70	6562	20.95	6560	23.04
05 PB165667BL	12605	16.71	9944	20.96	9785	23.04
06 PB165667BS	10920	16.70	9467	20.95	9435	23.03

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG NO.: P5282

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 RW7-SP100-20241212DL	2631	7.26	5958	10.01	3986	13.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG NO.: P5282

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 RW7-SP100-20241212DL	8604	16.70	7270	20.95	7223	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.



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/12/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	RW7-SP100-20241212	SDG No.:	P5282
Lab Sample ID:	P5282-01	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
BN035801.D	1	12/16/24 11:30	12/24/24 02:25	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.00	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3180		7.264			
1146-65-2	Naphthalene-d8	7310		10.009			
15067-26-2	Acenaphthene-d10	4570		13.925			
1517-22-2	Phenanthrene-d10	8850		16.698			
1719-03-5	Chrysene-d12	7150		20.947			
1520-96-3	Perylene-d12	6970		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 : BN035801.D
 Acq On : 24 Dec 2024 02:25
 Operator : RC/JU
 Sample : P5282-01
 Misc :
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212

Manual Integrations
APPROVED

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

Quant Time: Dec 24 03:21:17 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	3177	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7310	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4565	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8849	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7146	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6969	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	978	0.123	ng	0.00
5) Phenol-d6	6.484	99	505	0.053	ng	0.00
8) Nitrobenzene-d5	8.408	82	2041m	0.457	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4222	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	599	0.185	ng	0.00
15) 2-Fluorobiphenyl	12.534	172	6574	0.381	ng	-0.01
27) Fluoranthene-d10	18.752	212	11295	0.450	ng	0.00
31) Terphenyl-d14	19.379	244	8274	0.587	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	18124	5.967	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	657	0.067	ng	98

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

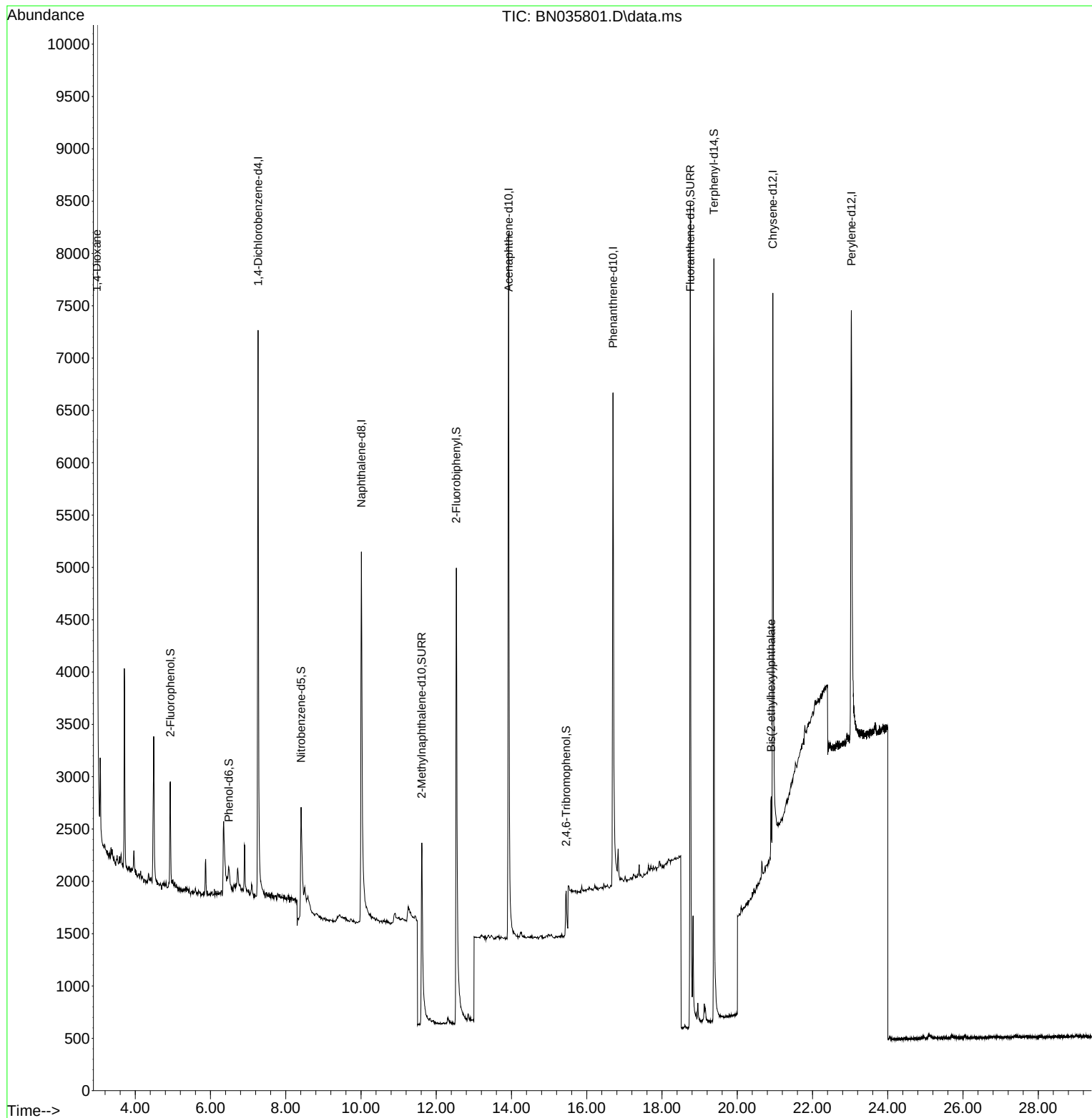
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035801.D
Acq On : 24 Dec 2024 02:25
Operator : RC/JU
Sample : P5282-01
Misc :
ALS Vial : 83 Sample Multiplier: 1

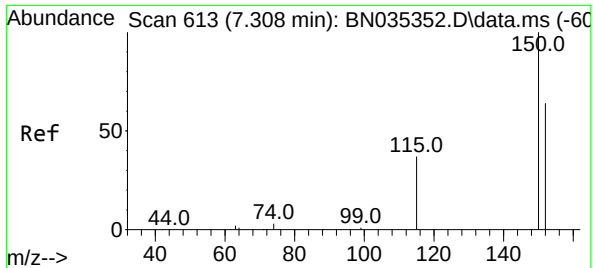
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

Manual Integrations
APPROVED

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

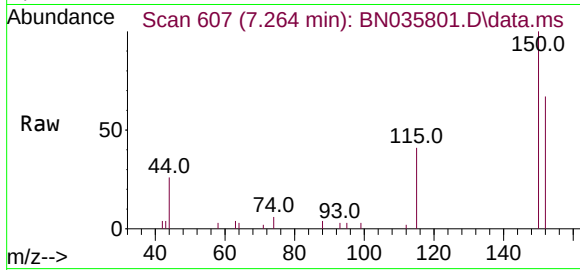
Quant Time: Dec 24 03:21:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

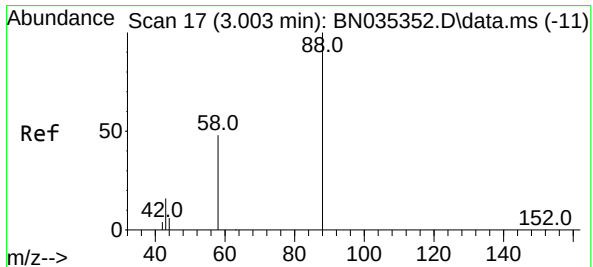
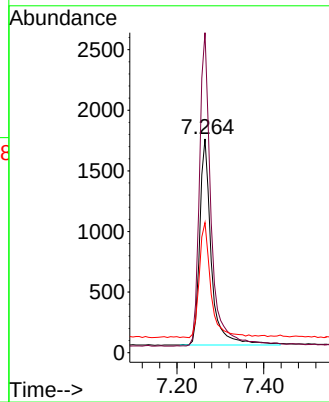
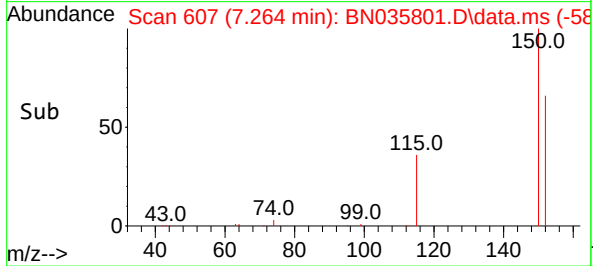
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212



Tgt Ion:152 Resp: 317
Ion Ratio Lower Upper
152 100
150 149.7 124.0 186.0
115 60.8 49.6 74.4

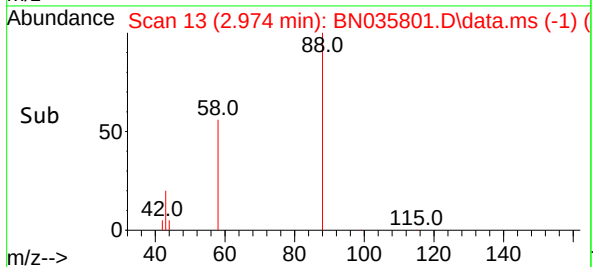
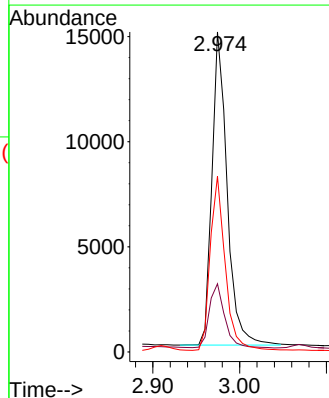
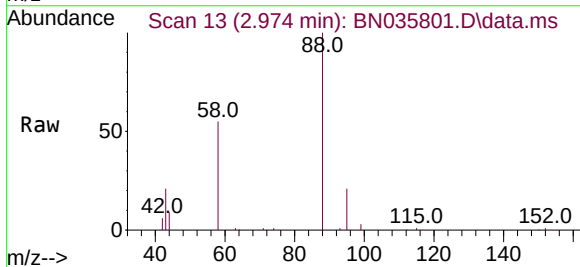
Manual Integrations
APPROVED

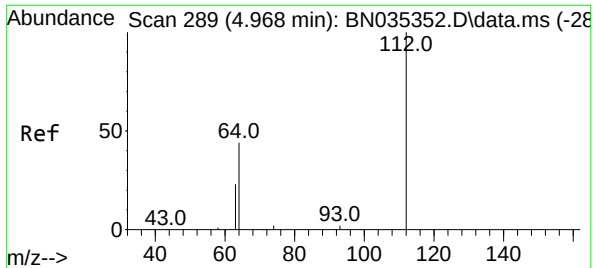
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 5.967 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion: 88 Resp: 18124
Ion Ratio Lower Upper
88 100
43 20.9 17.2 25.8
58 55.1 44.5 66.7





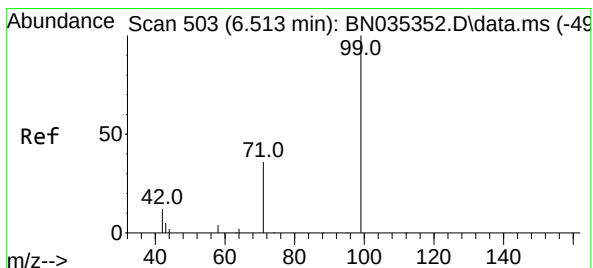
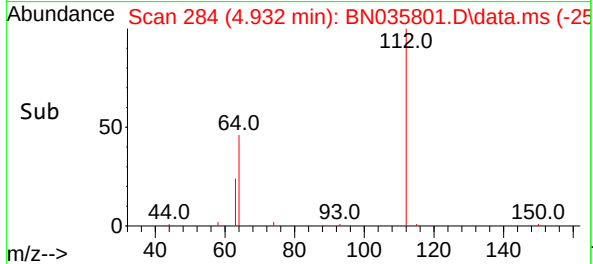
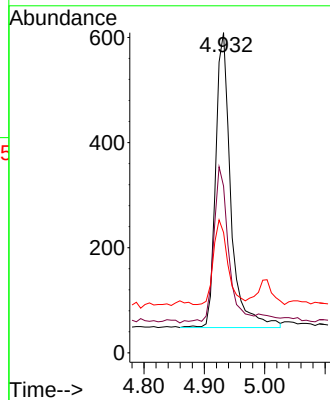
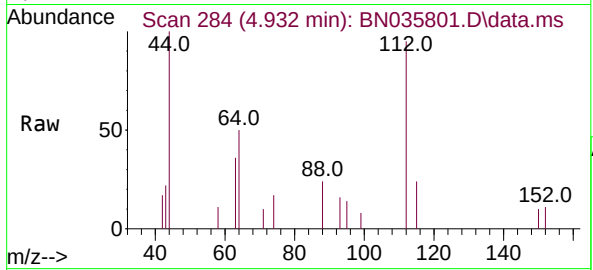
#4
2-Fluorophenol
Concen: 0.123 ng
RT: 4.932 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

Tgt Ion:112 Resp: 978
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 28.3 21.0 31.6

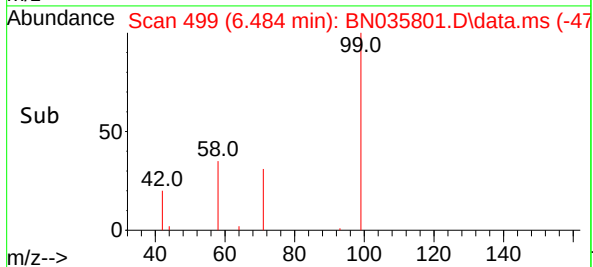
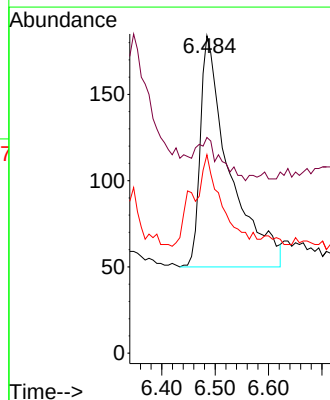
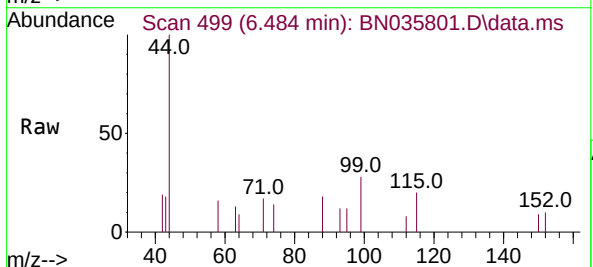
Manual Integrations
APPROVED

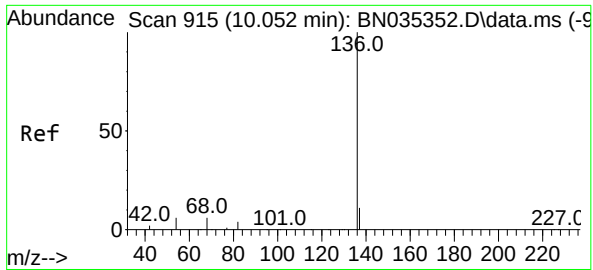
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.053 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

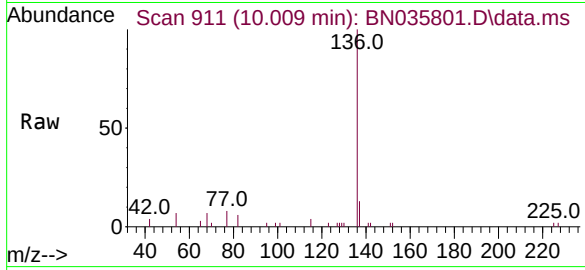
Tgt Ion: 99 Resp: 505
Ion Ratio Lower Upper
99 100
42 18.0 11.4 17.2#
71 39.4 29.3 43.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

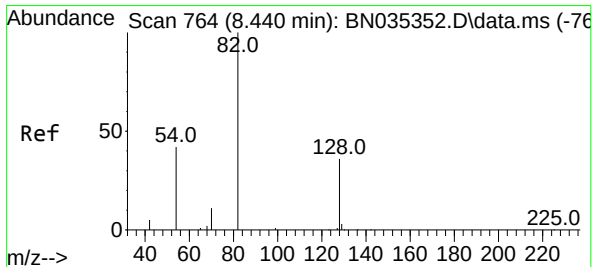
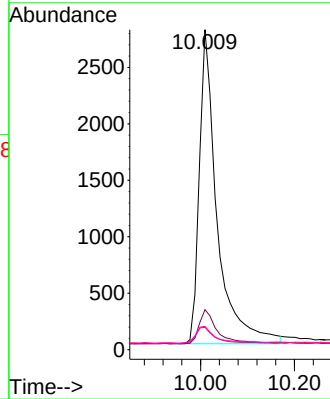
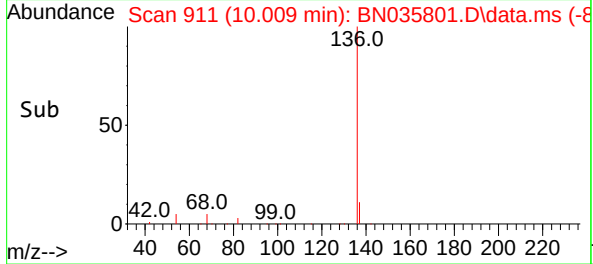
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212



Tgt Ion:136 Resp: 7310
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 7.0 6.1 9.1
68 7.3 6.4 9.6

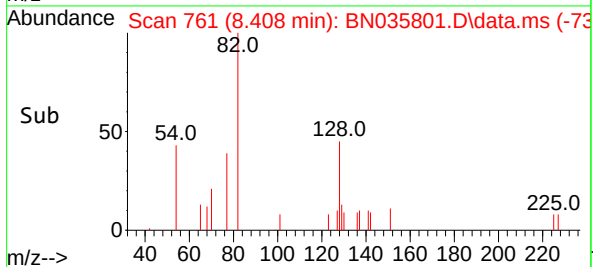
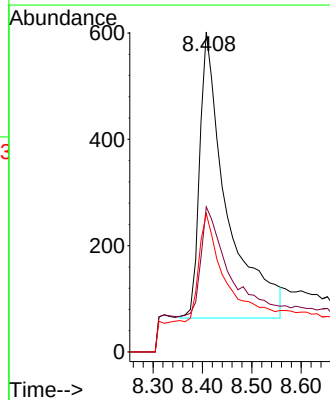
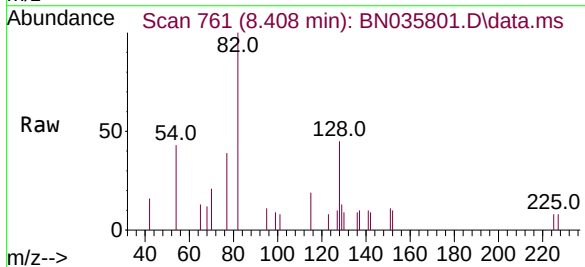
Manual Integrations
APPROVED

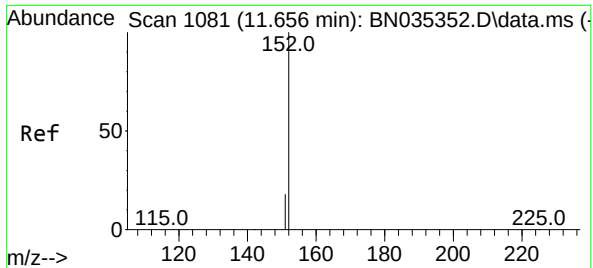
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.457 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

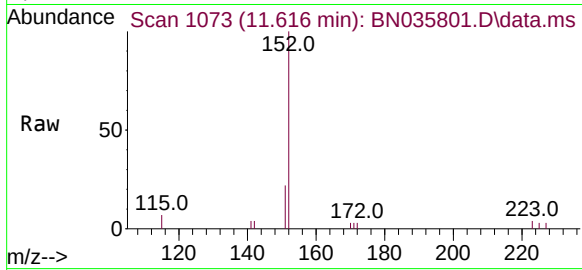
Tgt Ion: 82 Resp: 2041
Ion Ratio Lower Upper
82 100
128 45.3 33.4 50.0
54 43.2 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.616 min Scan# 1081
Delta R.T. -0.005 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

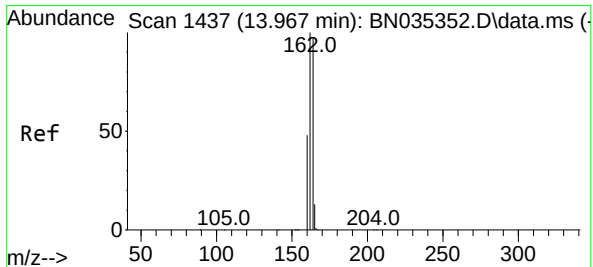
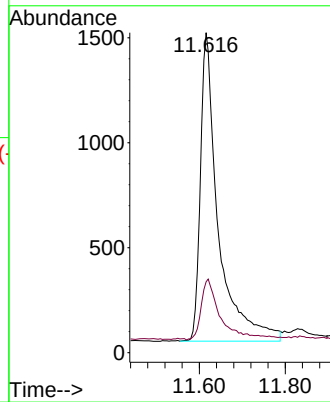
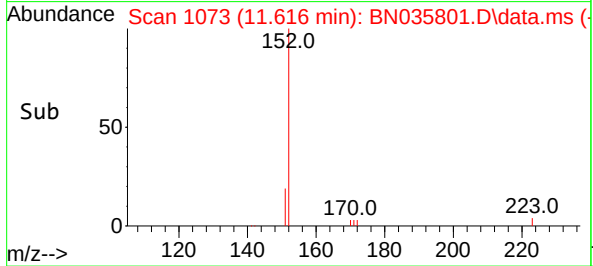
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212



Tgt Ion:152 Resp: 422
Ion Ratio Lower Upper
152 100
151 21.7 16.6 25.0

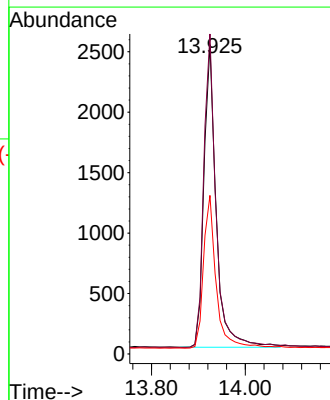
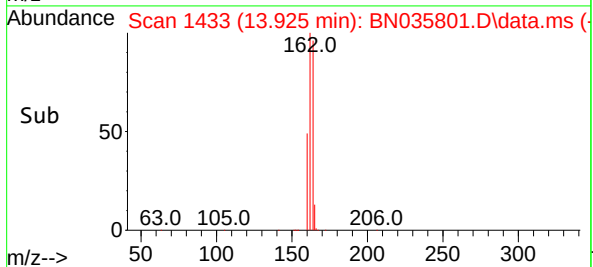
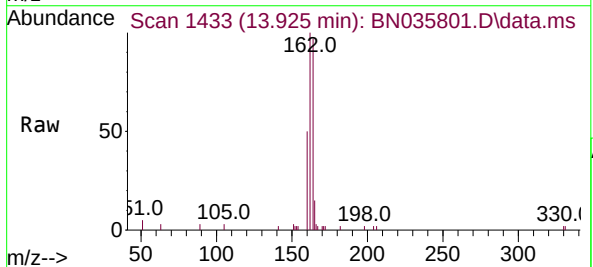
Manual Integrations
APPROVED

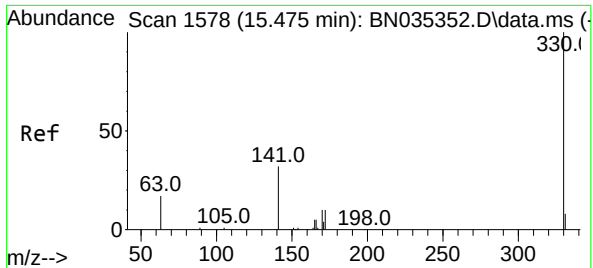
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

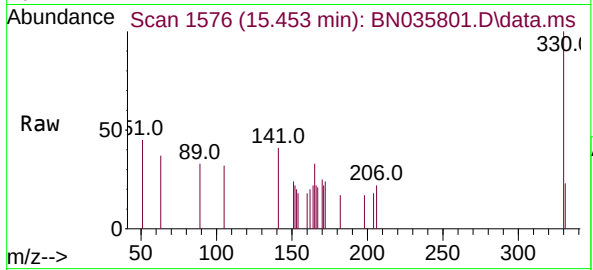
Tgt Ion:164 Resp: 4565
Ion Ratio Lower Upper
164 100
162 103.4 82.2 123.2
160 51.3 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.185 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

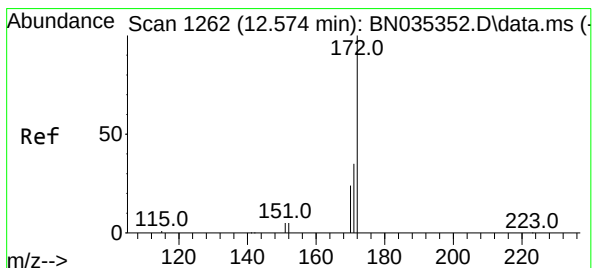
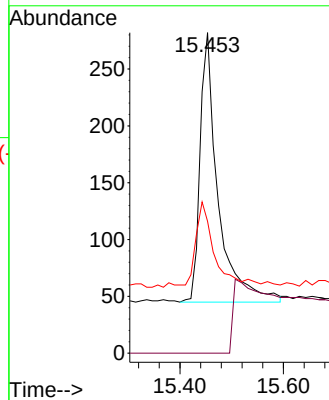
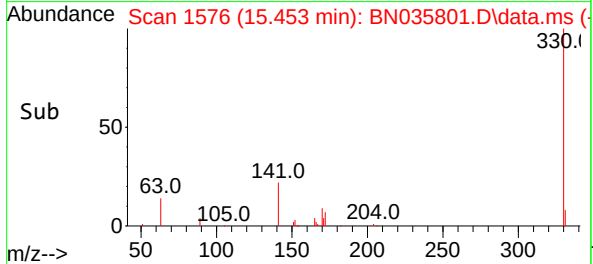
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212



Tgt Ion:330 Resp: 599
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.7 26.6 40.0

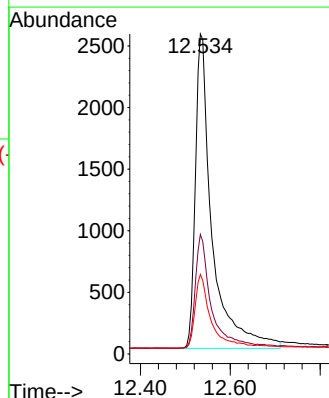
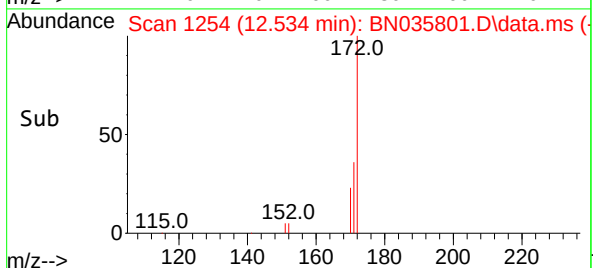
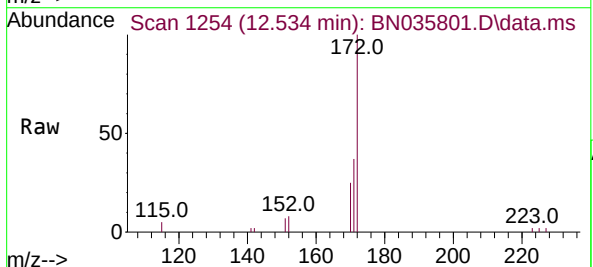
Manual Integrations
APPROVED

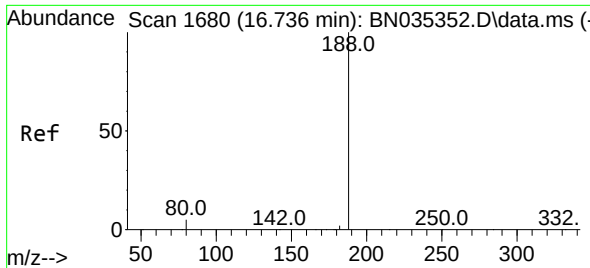
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:172 Resp: 6574
Ion Ratio Lower Upper
172 100
171 37.4 29.0 43.4
170 24.8 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: BN035801.D

Acq: 24 Dec 2024 02:25

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241212

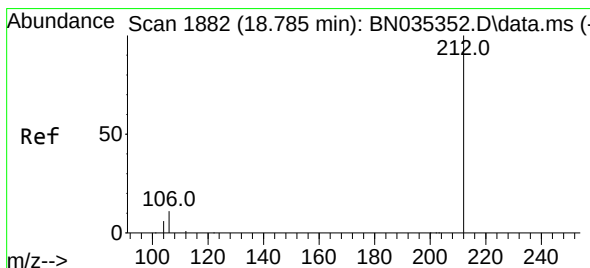
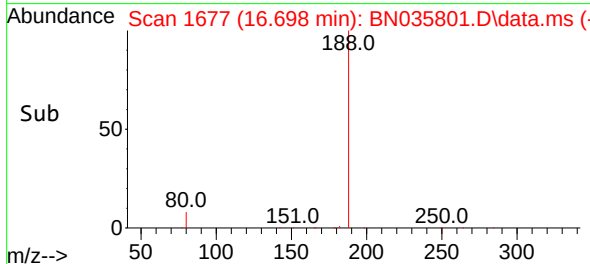
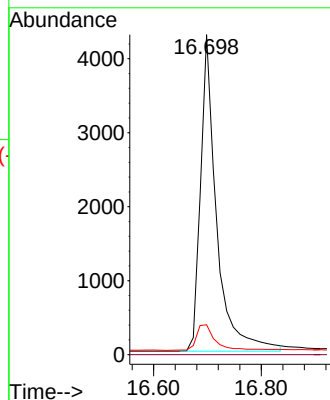
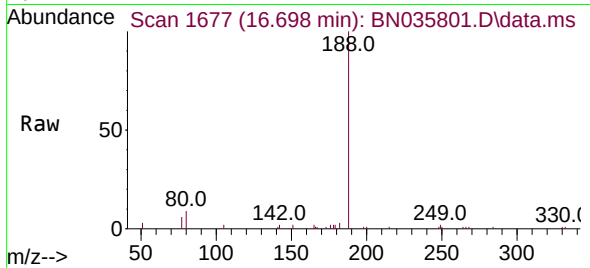
Tgt Ion:188	Resp:	8849
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.3	4.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#27

Fluoranthene-d10

Concen: 0.450 ng

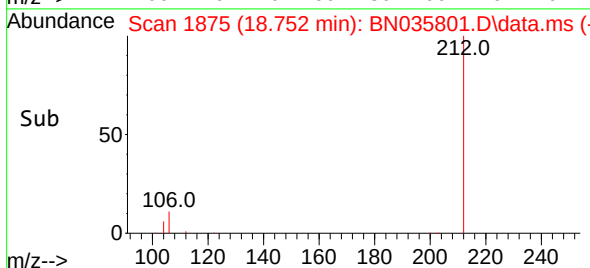
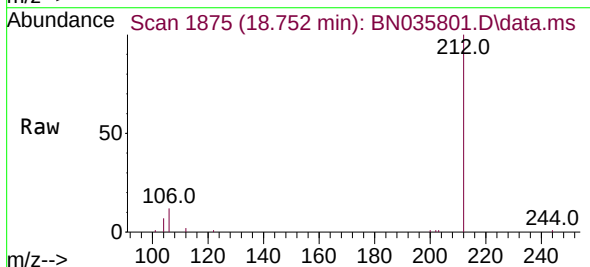
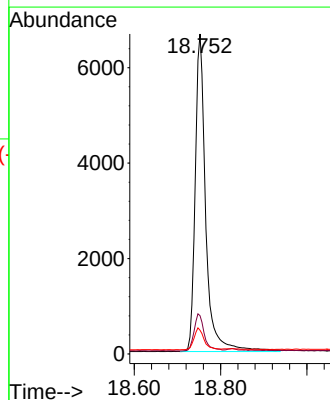
RT: 18.752 min Scan# 1875

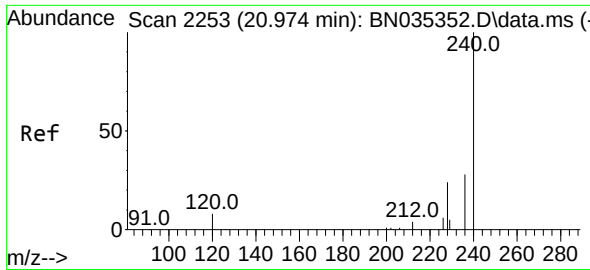
Delta R.T. -0.009 min

Lab File: BN035801.D

Acq: 24 Dec 2024 02:25

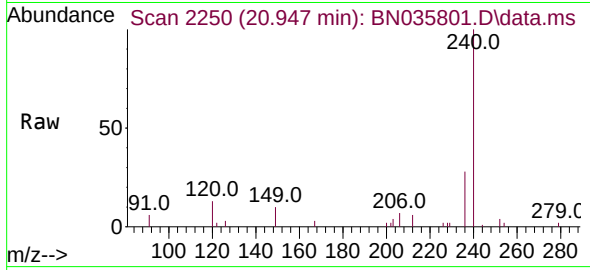
Tgt Ion:212	Resp:	11295
Ion Ratio	Lower	Upper
212	100	
106	11.2	9.2
104	6.5	5.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

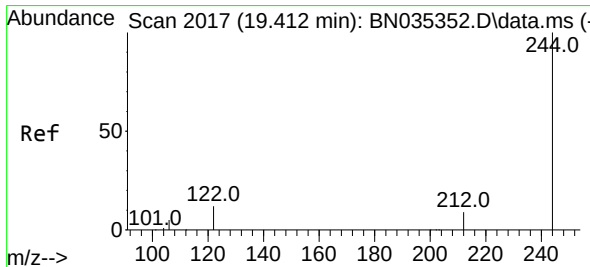
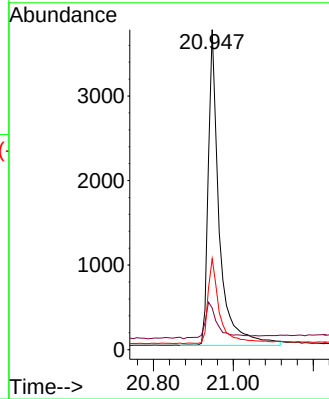
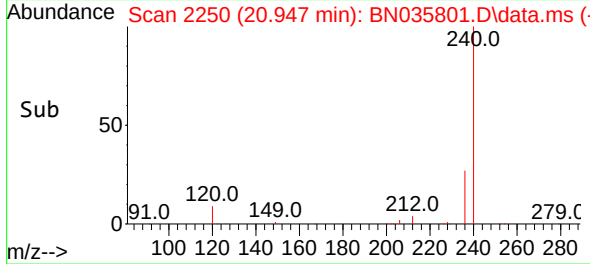
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212



Tgt Ion:240 Resp: 7140
Ion Ratio Lower Upper
240 100
120 13.0 7.9 11.9
236 28.5 22.9 34.3

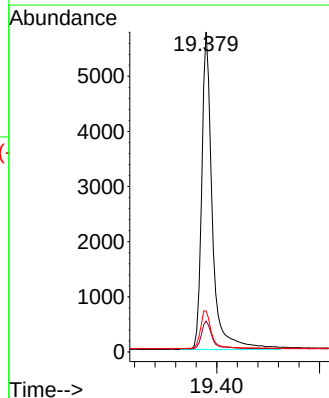
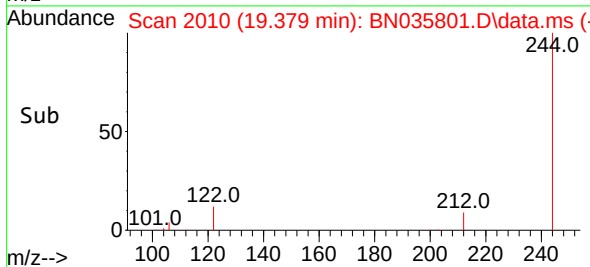
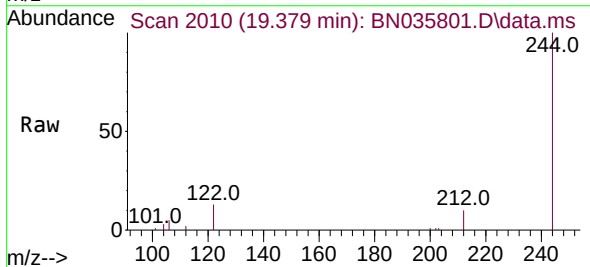
Manual Integrations
APPROVED

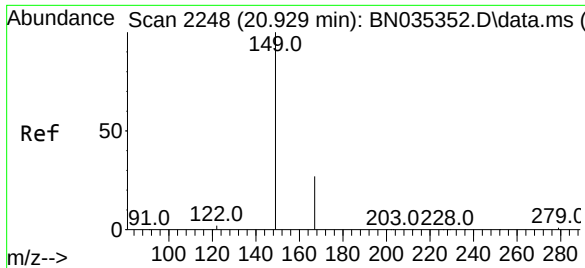
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#31
Terphenyl-d14
Concen: 0.587 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

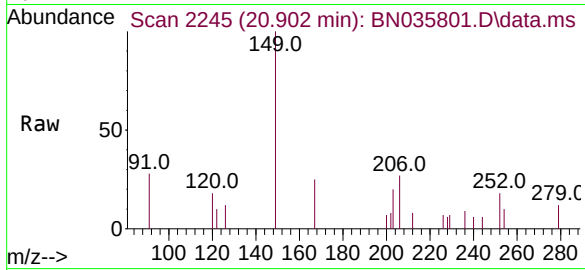
Tgt Ion:244 Resp: 8274
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 12.8 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 20.902 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

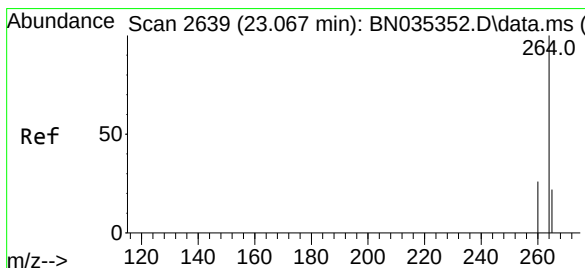
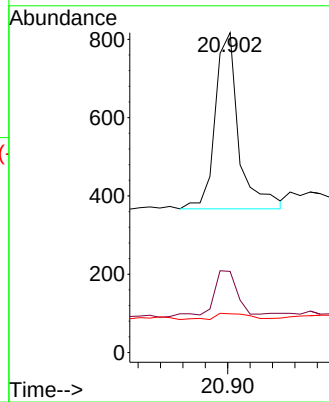
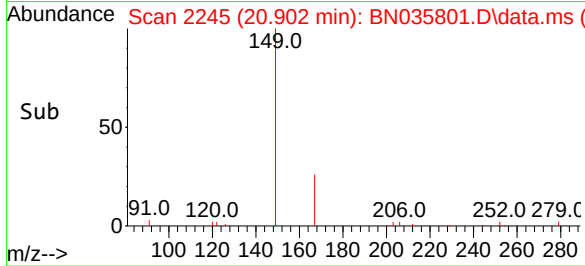
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212



Tgt Ion:149 Resp: 65
Ion Ratio Lower Upper
149 100
167 26.5 22.2 33.4
279 4.0 2.7 4.1

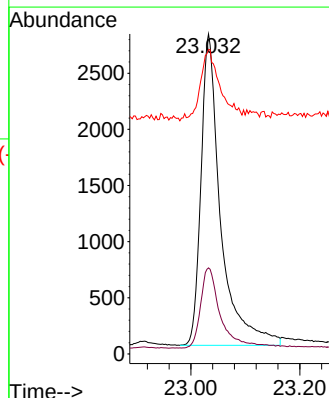
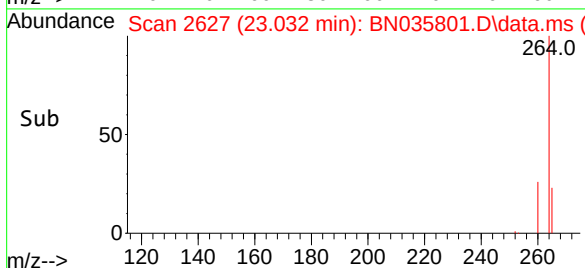
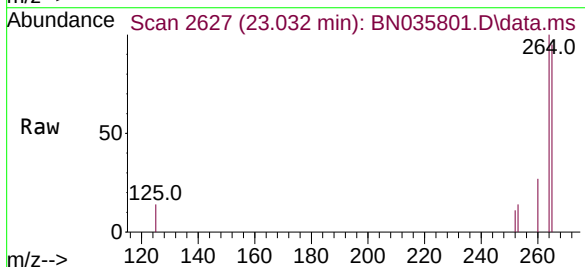
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:264 Resp: 6969
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 95.1 40.2 60.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/12/24
Project:	CTO WE13		Date Received:	12/13/24
Client Sample ID:	RW7-SP100-20241212DL		SDG No.:	P5282
Lab Sample ID:	P5282-01DL		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
BN035857.D	2	12/16/24 11:30	12/26/24 17:18	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.60	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.53		30 - 150		132%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.55	*	55 - 111		137%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	58 - 132		163%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2630	7.257				
1146-65-2	Naphthalene-d8	5960	10.009				
15067-26-2	Acenaphthene-d10	3990	13.925				
1517-22-2	Phenanthrene-d10	8600	16.698				
1719-03-5	Chrysene-d12	7270	20.947				
1520-96-3	Perylene-d12	7220	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 : BN035857.D
 Acq On : 26 Dec 2024 17:18
 Operator : RC/JU
 Sample : P5282-01DL 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212DL

Manual Integrations
APPROVED

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

Quant Time: Dec 27 00:42:00 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	2631	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	5958	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	3986	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8604	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7270	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7223	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	467	0.071	ng	-0.01
5) Phenol-d6	6.484	99	239	0.030	ng	0.00
8) Nitrobenzene-d5	8.408	82	996m	0.274	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	1980	0.212	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	352	0.124	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	3156	0.209	ng	0.00
27) Fluoranthene-d10	18.747	212	6468	0.265	ng	-0.01
31) Terphenyl-d14	19.375	244	4696	0.327	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.967	88	8292	3.297	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	476	0.047	ng	# 94

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

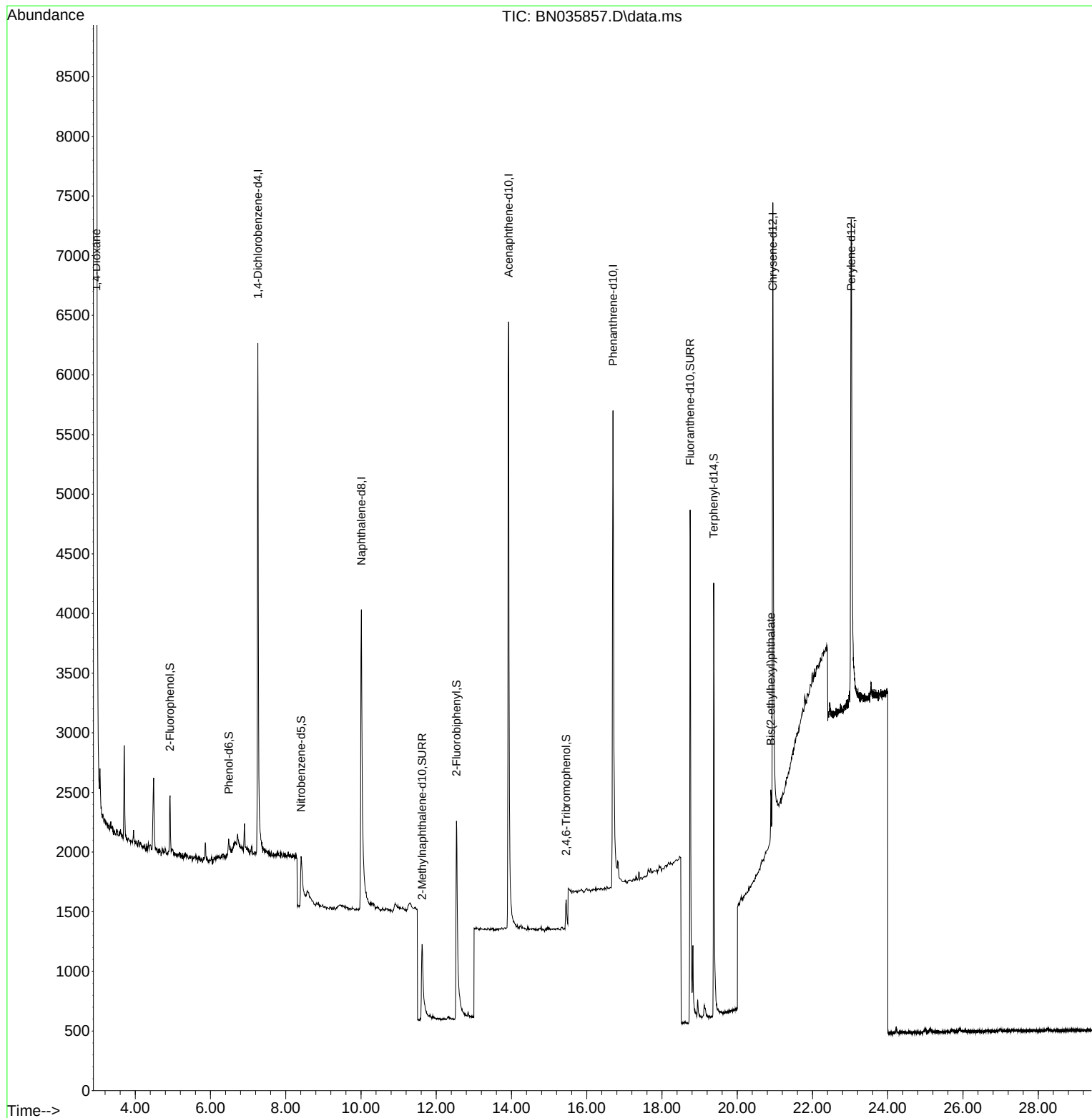
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035857.D
Acq On : 26 Dec 2024 17:18
Operator : RC/JU
Sample : P5282-01DL 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

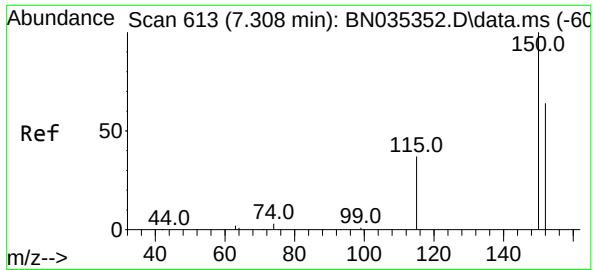
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

Manual Integrations
APPROVED

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

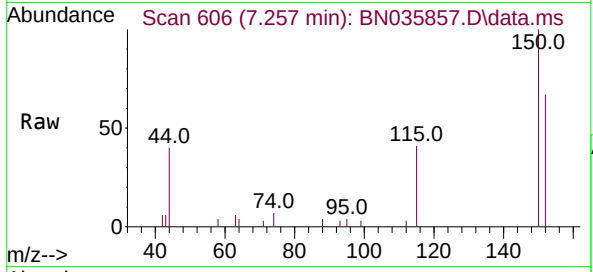
Quant Time: Dec 27 00:42:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

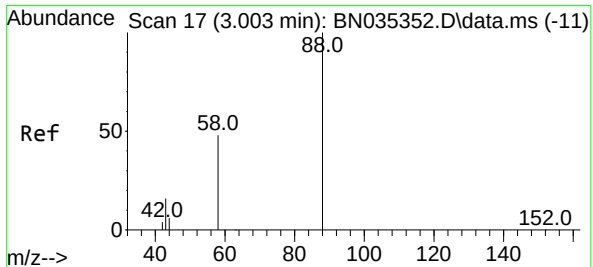
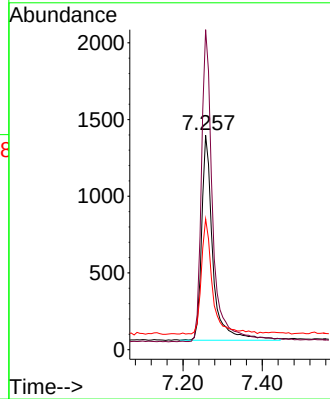
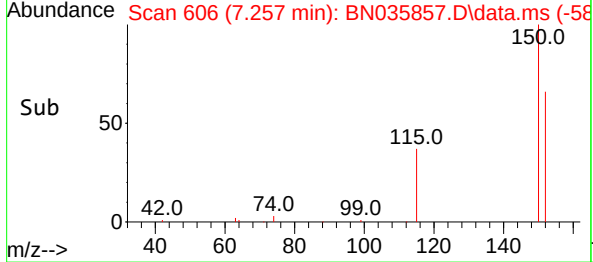
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL



Tgt Ion: 152 Resp: 263
Ion Ratio Lower Upper
152 100
150 149.3 124.0 186.0
115 61.0 49.6 74.4

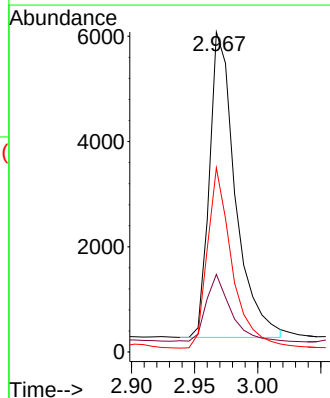
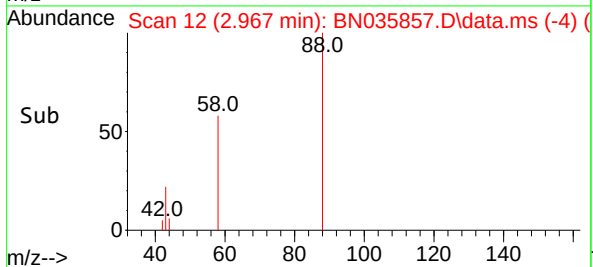
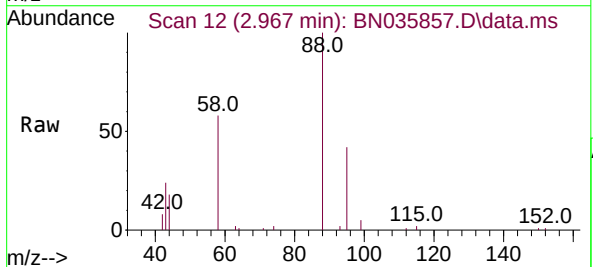
Manual Integrations
APPROVED

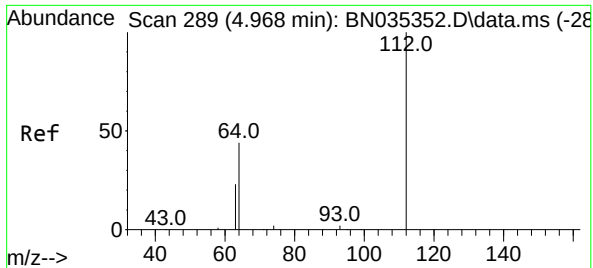
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#2
1,4-Dioxane
Concen: 3.297 ng
RT: 2.967 min Scan# 12
Delta R.T. -0.015 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion: 88 Resp: 8292
Ion Ratio Lower Upper
88 100
43 20.4 17.2 25.8
58 56.0 44.5 66.7





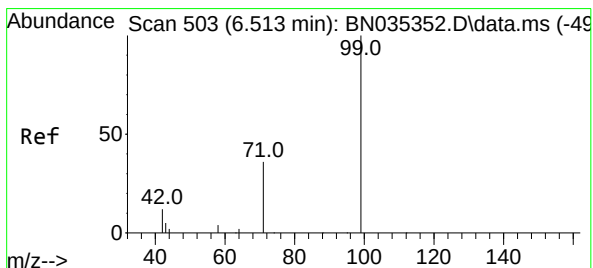
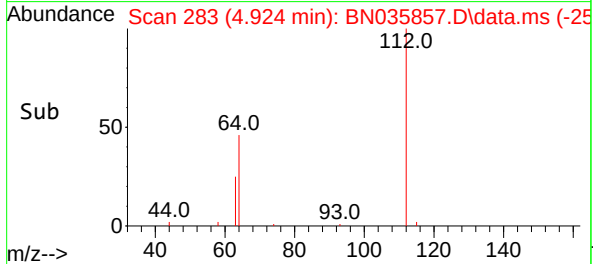
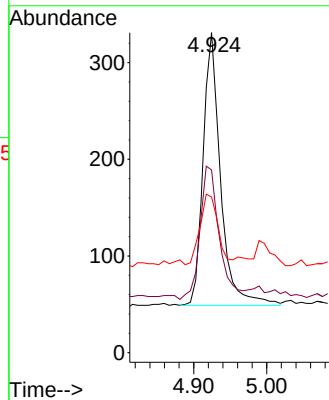
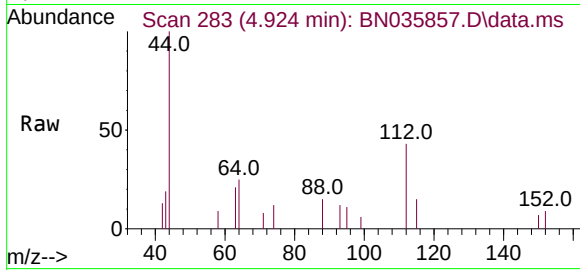
#4
2-Fluorophenol
Concen: 0.071 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

Tgt Ion:112 Resp: 46
Ion Ratio Lower Upper
112 100
64 54.2 39.8 59.8
63 28.9 21.0 31.6

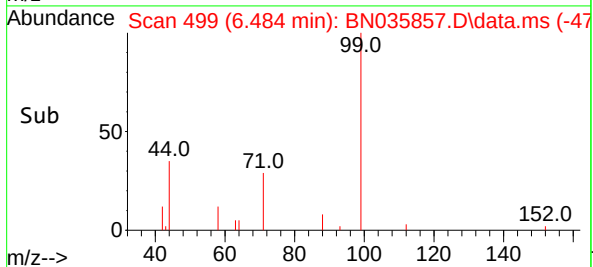
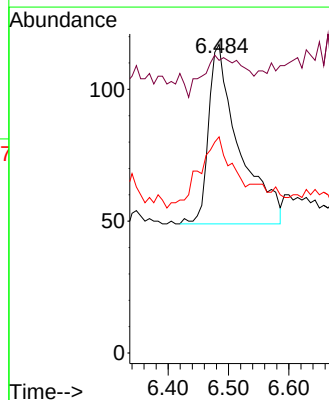
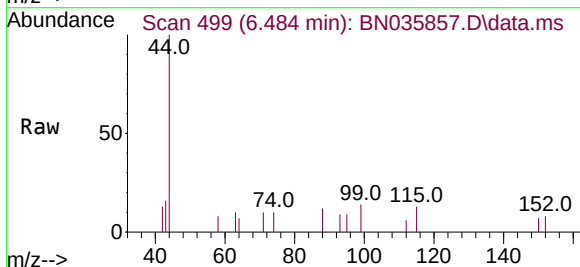
Manual Integrations
APPROVED

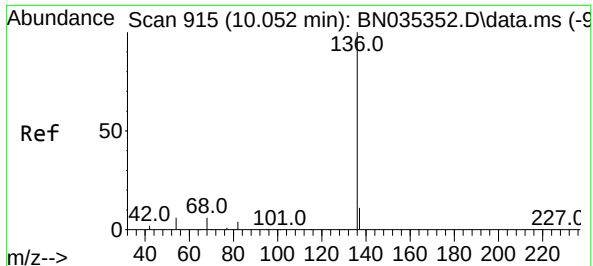
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#5
Phenol-d6
Concen: 0.030 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

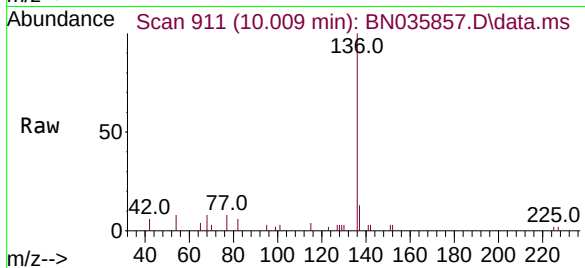
Tgt Ion: 99 Resp: 239
Ion Ratio Lower Upper
99 100
42 31.0 11.4 17.2#
71 44.4 29.3 43.9#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

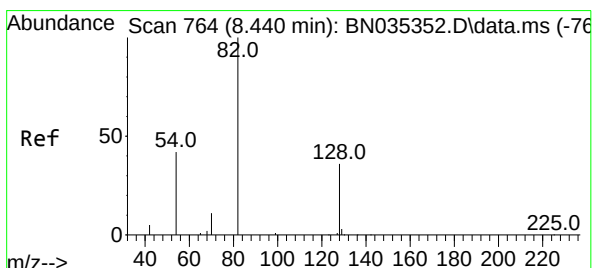
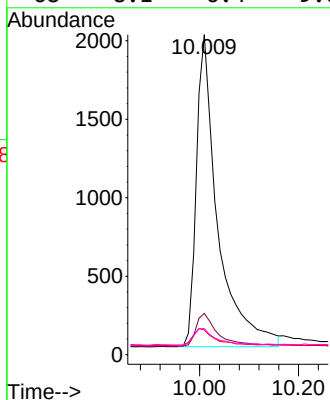
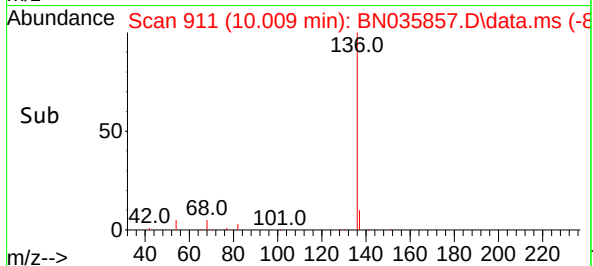
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL



Tgt Ion: 136 Resp: 5958
Ion Ratio Lower Upper
136 100
137 12.9 10.2 15.2
54 7.7 6.1 9.1
68 8.1 6.4 9.6

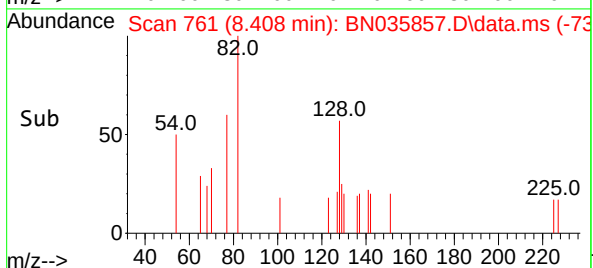
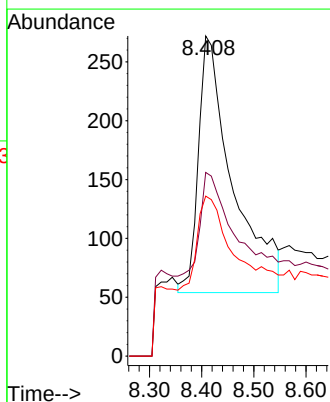
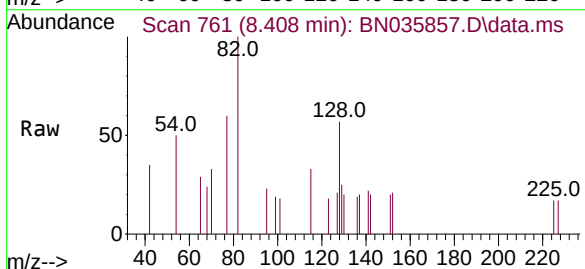
Manual Integrations
APPROVED

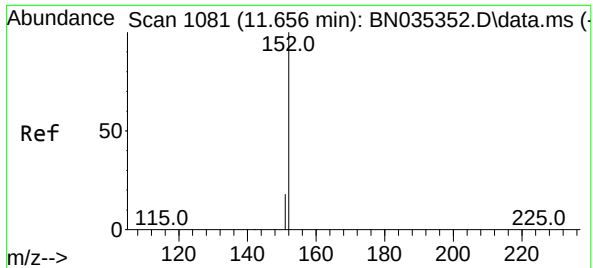
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#8
Nitrobenzene-d5
Concen: 0.274 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

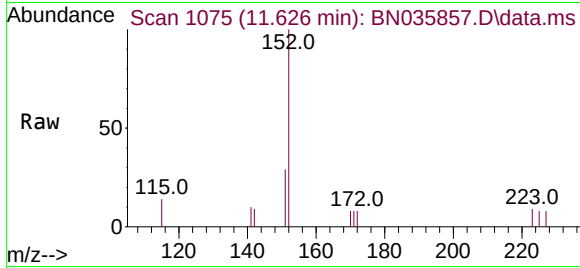
Tgt Ion: 82 Resp: 996
Ion Ratio Lower Upper
82 100
128 57.4 33.4 50.0#
54 50.0 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.212 ng
RT: 11.626 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

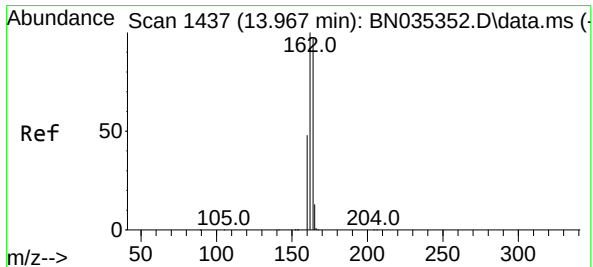
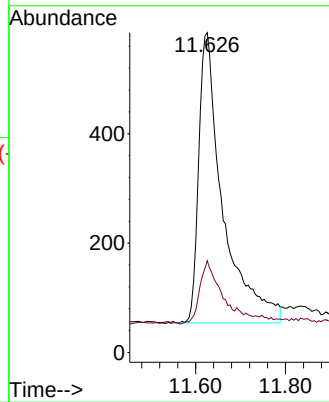
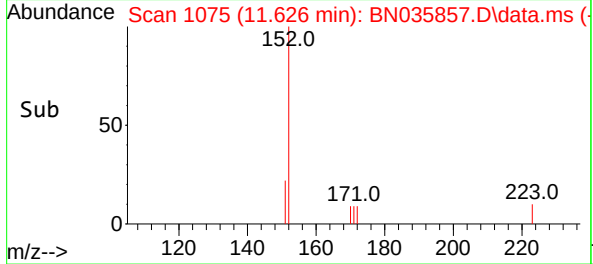
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL



Tgt Ion:152 Resp: 1980
Ion Ratio Lower Upper
152 100
151 18.2 16.6 25.0

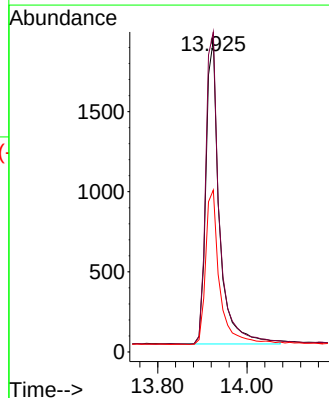
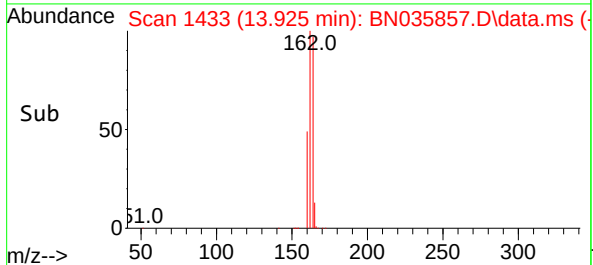
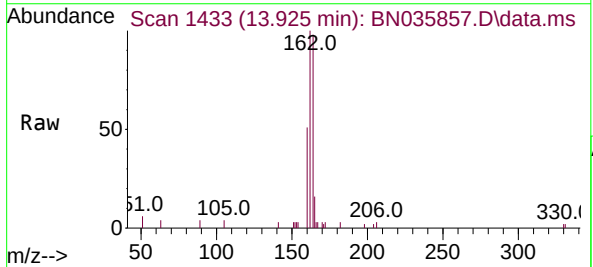
Manual Integrations
APPROVED

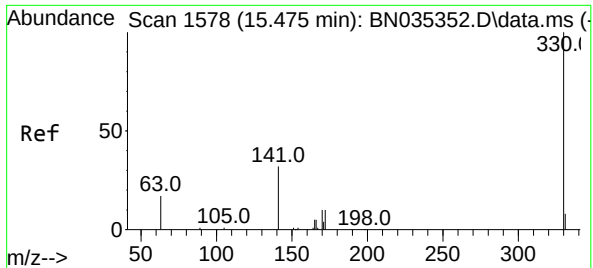
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

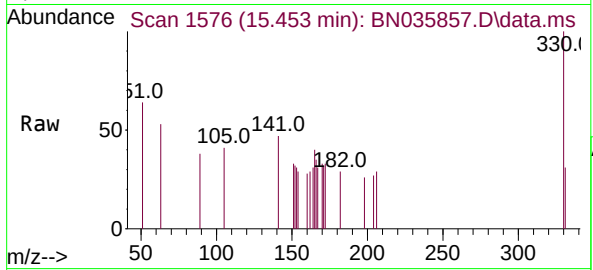
Tgt Ion:164 Resp: 3986
Ion Ratio Lower Upper
164 100
162 102.5 82.2 123.2
160 51.8 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.124 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

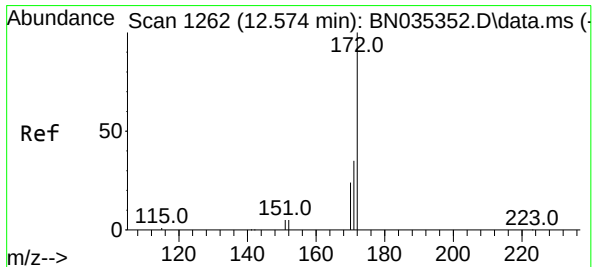
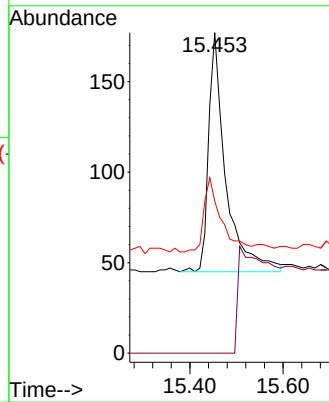
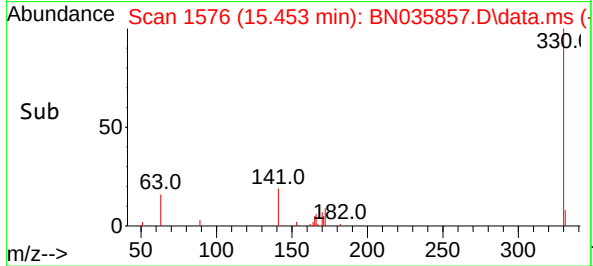
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL



Tgt Ion:330 Resp: 352
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.4 26.6 40.0

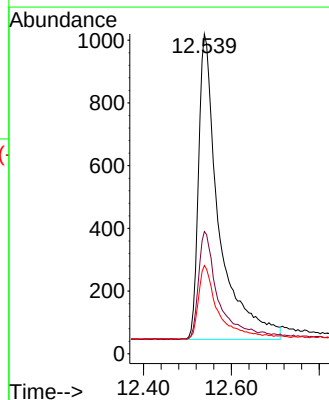
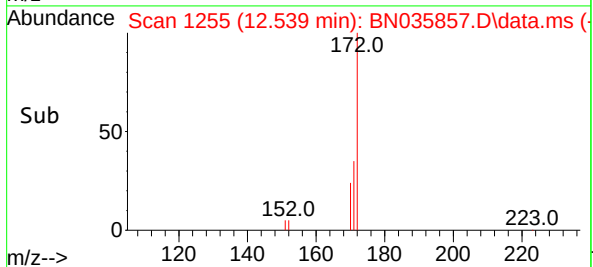
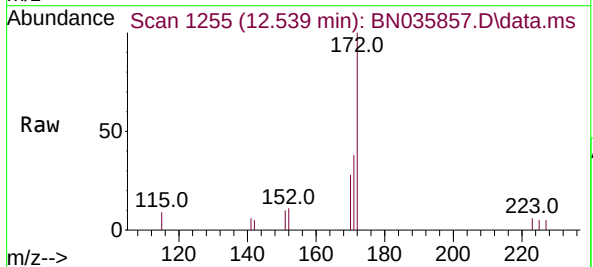
Manual Integrations
APPROVED

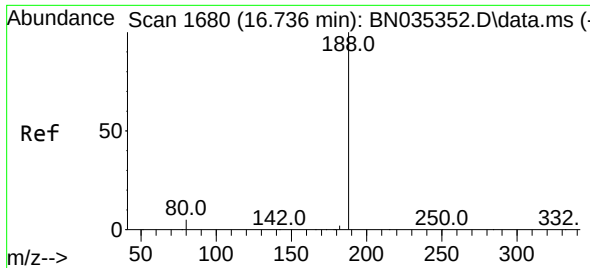
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#15
2-Fluorobiphenyl
Concen: 0.209 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion:172 Resp: 3156
Ion Ratio Lower Upper
172 100
171 38.2 29.0 43.4
170 27.6 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: BN035857.D

Acq: 26 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241212DL

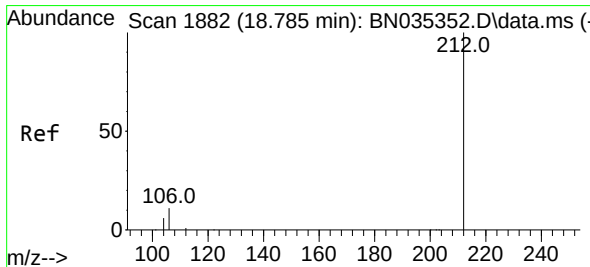
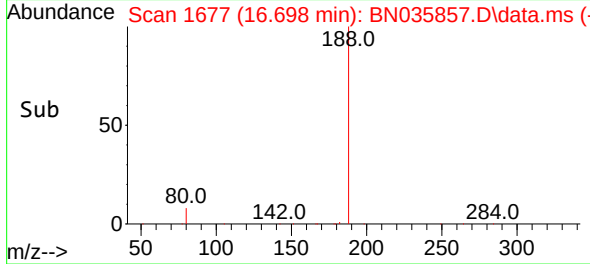
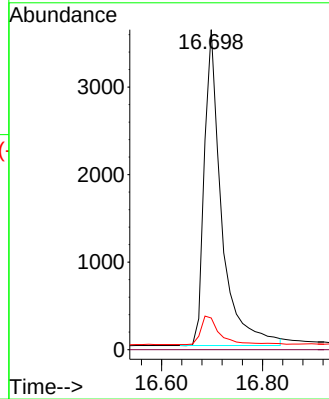
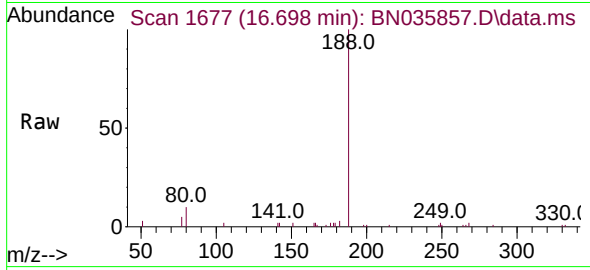
Tgt Ion:188	Resp:	8604
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.9	4.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#27

Fluoranthene-d10

Concen: 0.265 ng

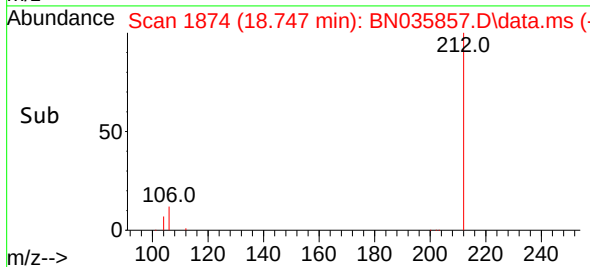
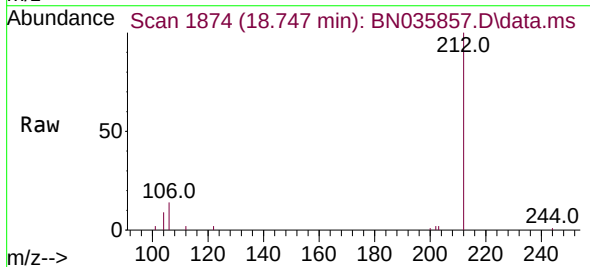
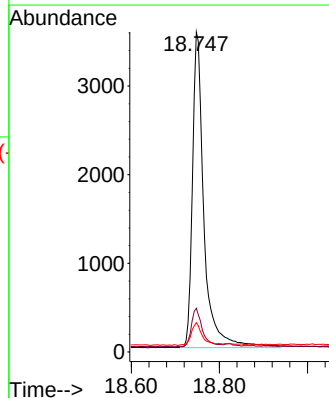
RT: 18.747 min Scan# 1874

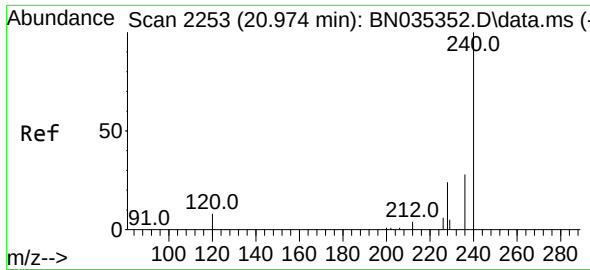
Delta R.T. -0.014 min

Lab File: BN035857.D

Acq: 26 Dec 2024 17:18

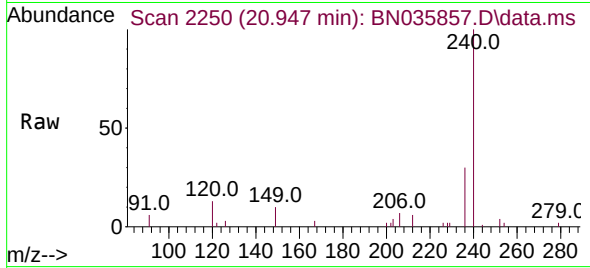
Tgt Ion:212	Resp:	6468
Ion Ratio	Lower	Upper
212	100	
106	11.6	9.2
104	7.1	5.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

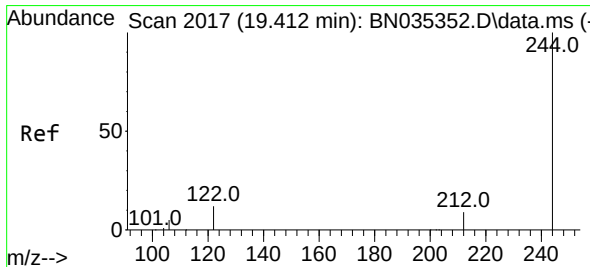
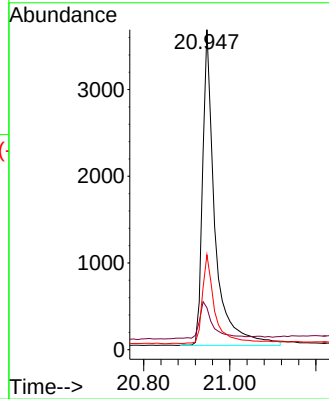
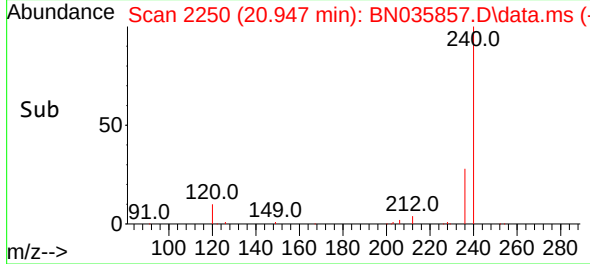
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL



Tgt Ion:240 Resp: 7270
Ion Ratio Lower Upper
240 100
120 13.1 7.9 11.9
236 29.7 22.9 34.3

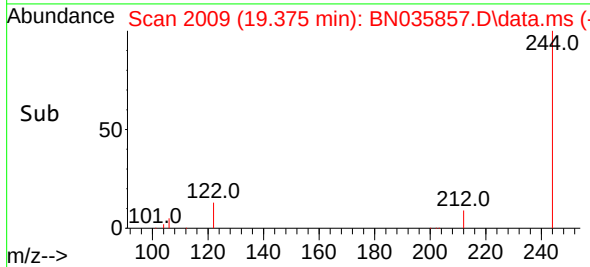
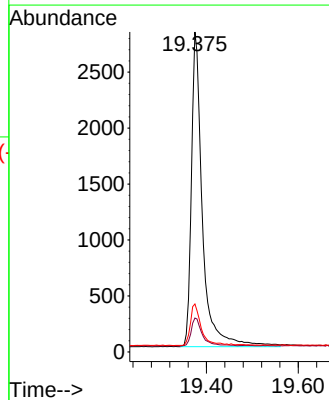
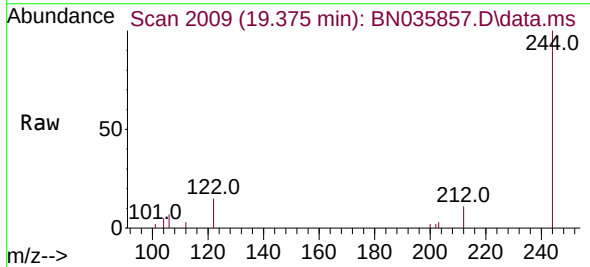
Manual Integrations
APPROVED

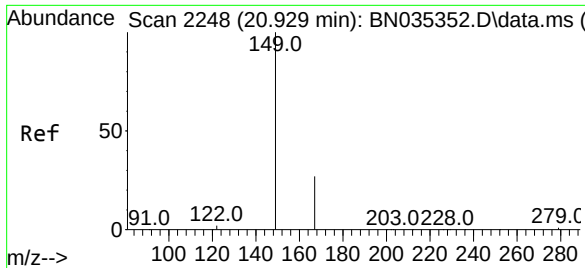
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#31
Terphenyl-d14
Concen: 0.327 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

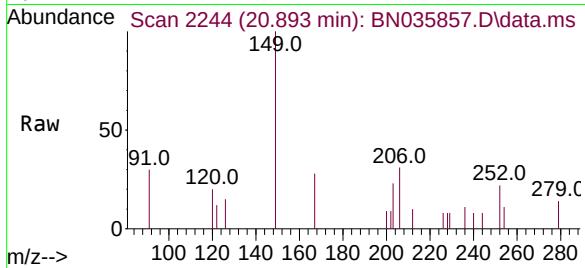
Tgt Ion:244 Resp: 4696
Ion Ratio Lower Upper
244 100
212 10.6 8.1 12.1
122 15.0 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.047 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

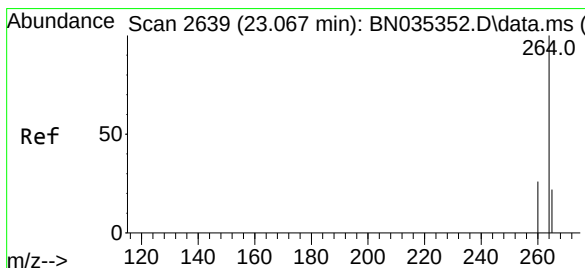
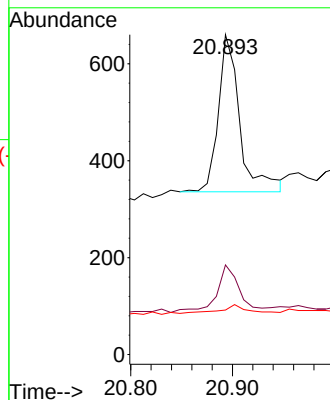
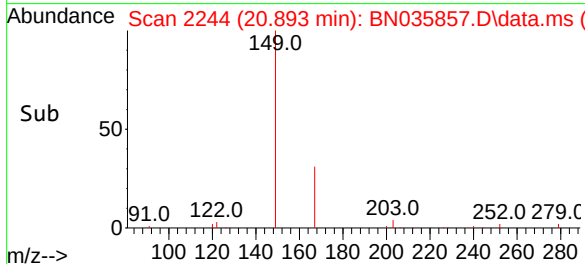
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL



Tgt Ion:149 Resp: 470
Ion Ratio Lower Upper
149 100
167 25.0 22.2 33.4
279 6.3 2.7 4.1

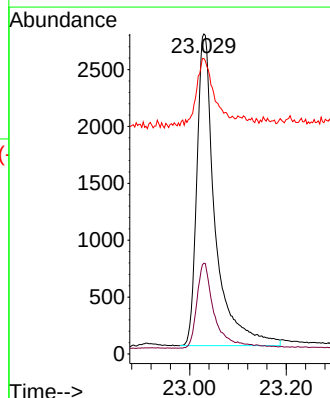
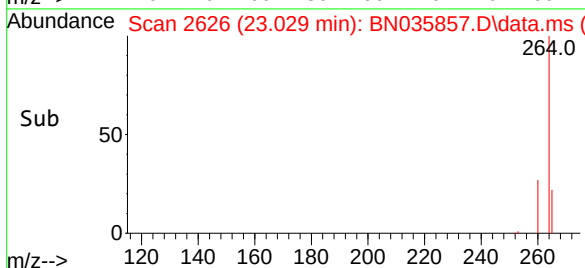
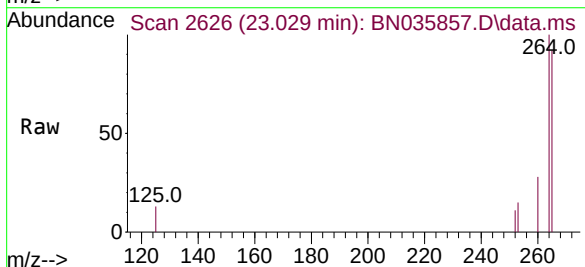
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion:264 Resp: 7223
Ion Ratio Lower Upper
264 100
260 28.4 21.4 32.2
265 92.4 40.2 60.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/12/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	RW7-SP201-20241212	SDG No.:	P5282
Lab Sample ID:	P5282-02	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
BN035802.D	1	12/16/24 11:30	12/24/24 03:00	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.50	*	55 - 111		125%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3110		7.265			
1146-65-2	Naphthalene-d8	7310		10.009			
15067-26-2	Acenaphthene-d10	4410		13.925			
1517-22-2	Phenanthrene-d10	8740		16.698			
1719-03-5	Chrysene-d12	7010		20.947			
1520-96-3	Perylene-d12	4960		23.035			

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 : BN035802.D
 Acq On : 24 Dec 2024 03:00
 Operator : RC/JU
 Sample : P5282-02
 Misc :
 ALS Vial : 84 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241212

Manual Integrations
APPROVED

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

Quant Time: Dec 24 03:32:48 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	7.265	152	3105	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7312	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	4411	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8736	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7014	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	4957	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	781	0.101	ng	0.00
5) Phenol-d6	6.477	99	588	0.063	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2230m	0.499	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4299	0.376	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	516	0.165	ng	-0.01
15) 2-Fluorobiphenyl	12.529	172	6969	0.418	ng	-0.02
27) Fluoranthene-d10	18.752	212	11233	0.454	ng	0.00
31) Terphenyl-d14	19.379	244	8165	0.590	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.902	149	585	0.060	ng	93

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

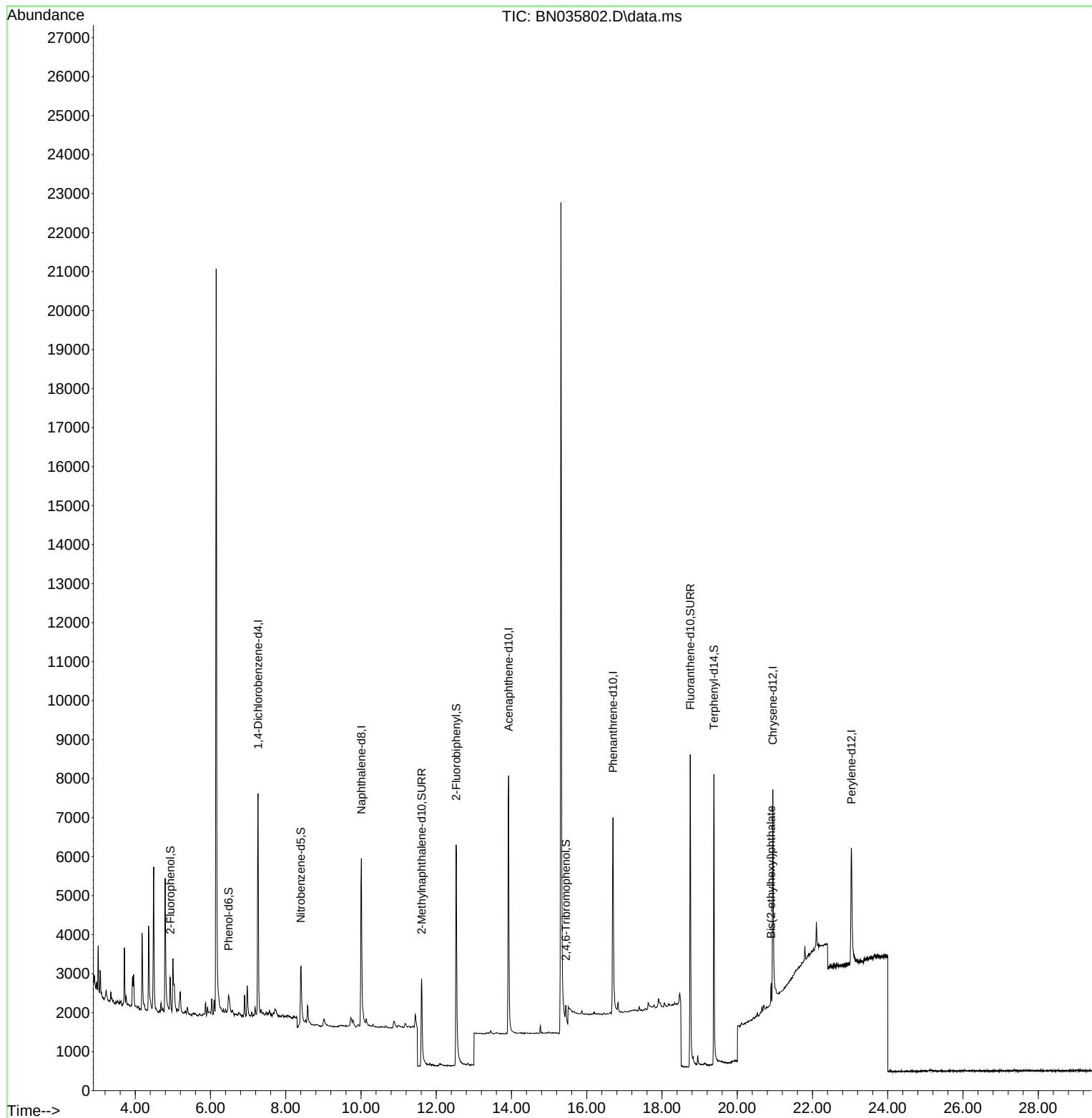
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035802.D
Acq On : 24 Dec 2024 03:00
Operator : RC/JU
Sample : P5282-02
Misc :
ALS Vial : 84 Sample Multiplier: 1

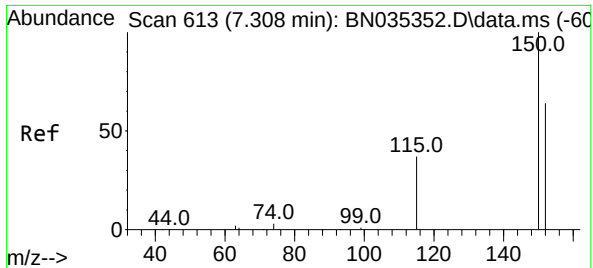
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

Manual Integrations
APPROVED

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

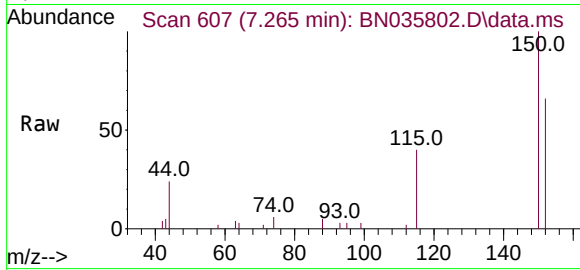
Quant Time: Dec 24 03:32:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 607
Delta R.T. -0.007 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

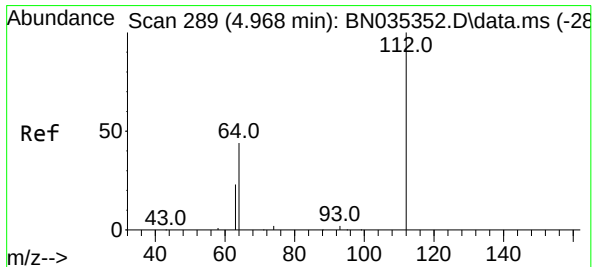
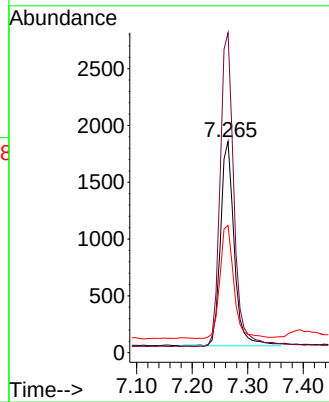
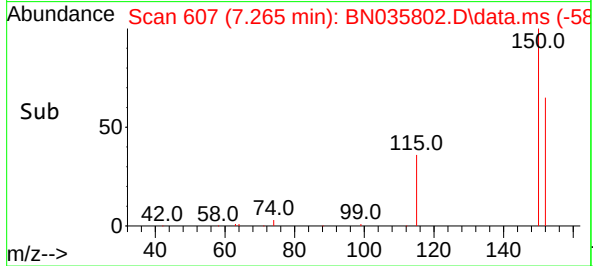
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion:152 Resp: 310
Ion Ratio Lower Upper
152 100
150 151.5 124.0 186.0
115 60.2 49.6 74.4

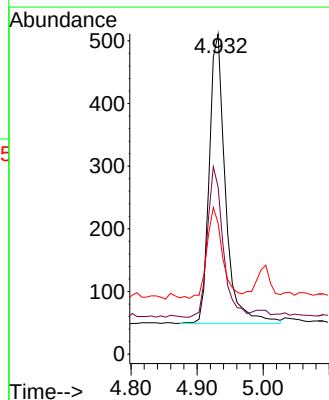
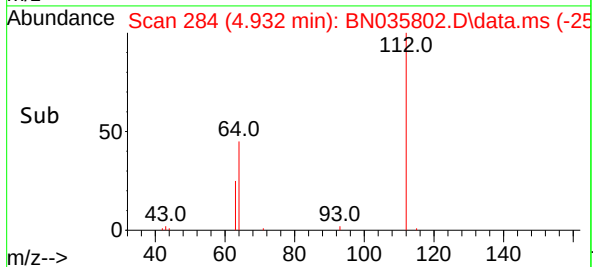
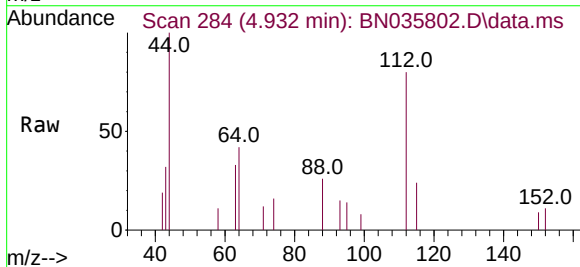
Manual Integrations
APPROVED

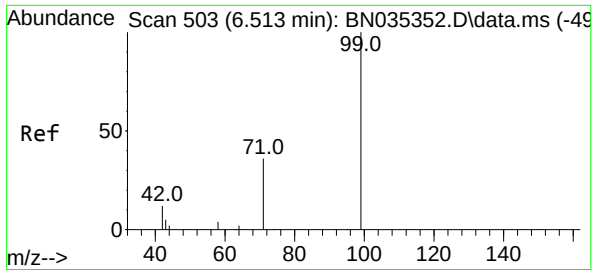
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

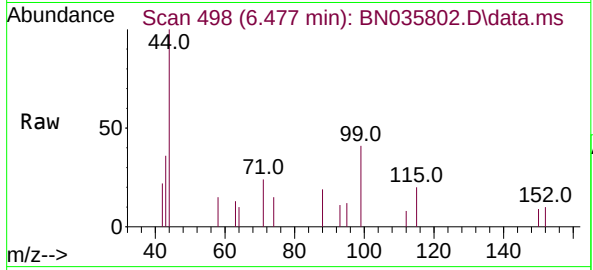
Tgt Ion:112 Resp: 781
Ion Ratio Lower Upper
112 100
64 49.9 39.8 59.8
63 30.0 21.0 31.6





#5
Phenol-d6
Concen: 0.063 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

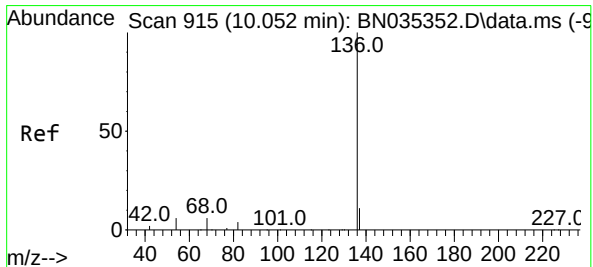
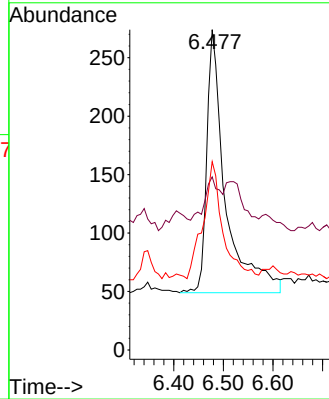
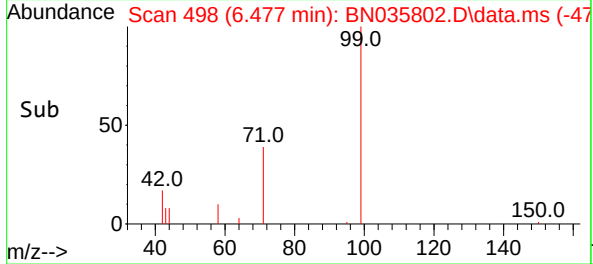
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion: 99 Resp: 588
Ion Ratio Lower Upper
99 100
42 19.0 11.4 17.2
71 47.4 29.3 43.9

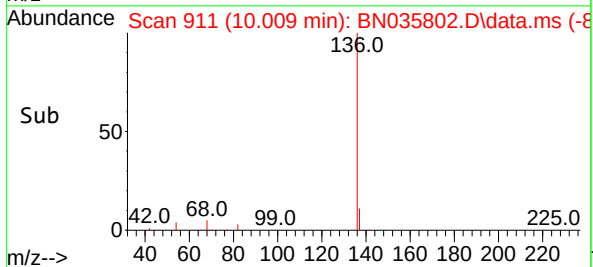
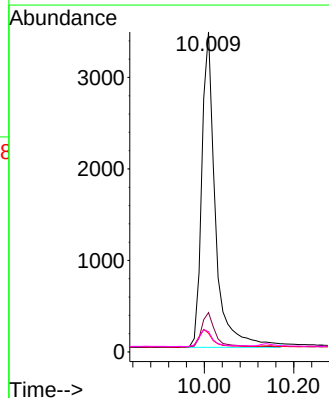
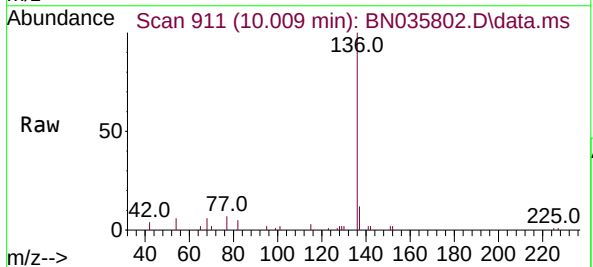
Manual Integrations
APPROVED

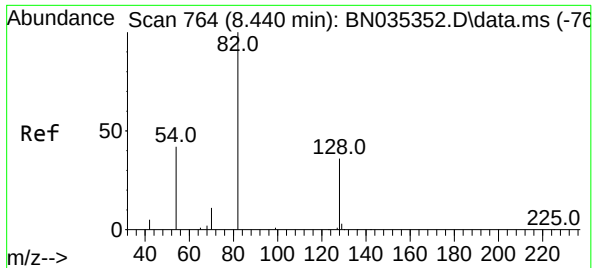
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion:136 Resp: 7312
Ion Ratio Lower Upper
136 100
137 12.3 10.2 15.2
54 5.9 6.1 9.1#
68 6.3 6.4 9.6#





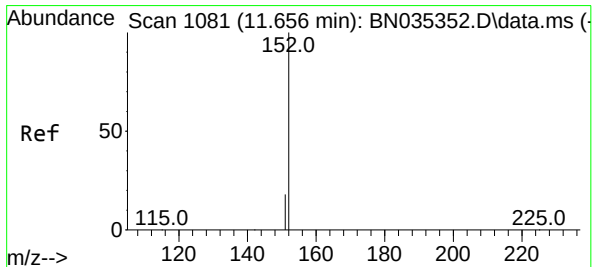
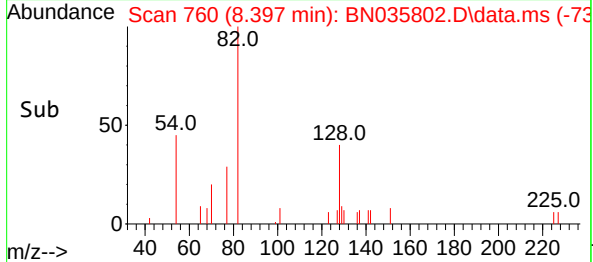
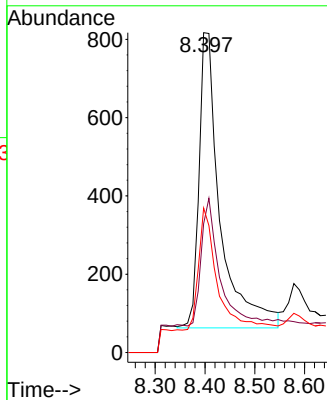
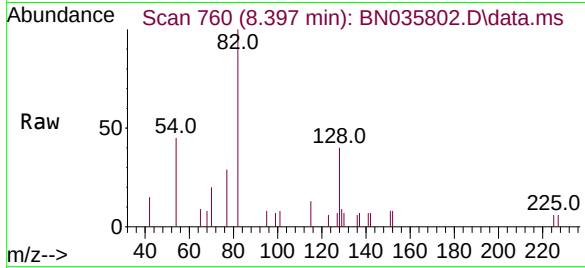
#8
Nitrobenzene-d5
Concen: 0.499 ng/ml
RT: 8.397 min Scan# 764
Delta R.T. -0.011 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

Tgt Ion: 82 Resp: 2230
Ion Ratio Lower Upper
82 100
128 40.3 33.4 50.0
54 45.2 36.7 55.1

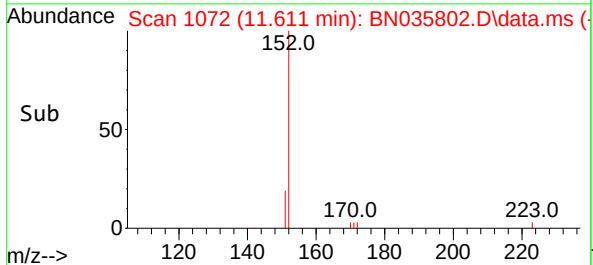
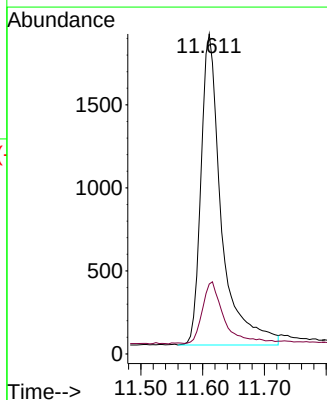
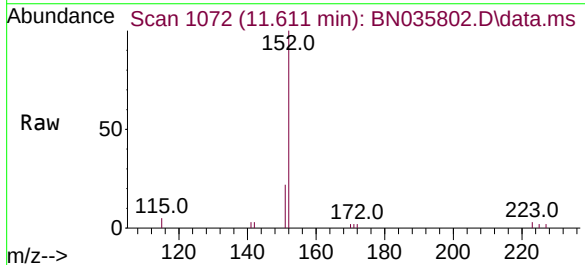
Manual Integrations
APPROVED

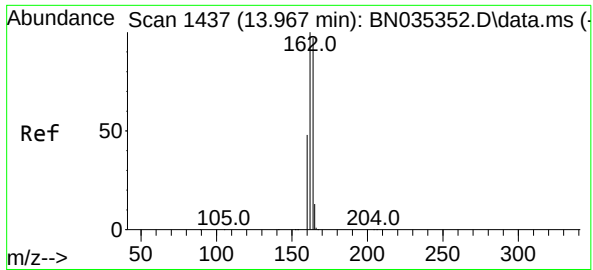
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.376 ng/ml
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

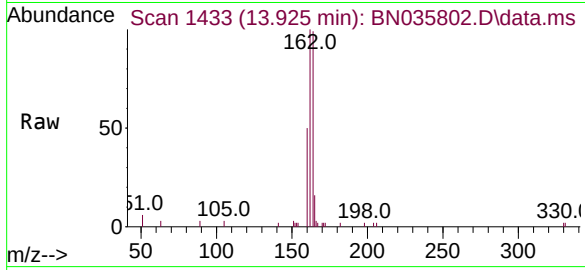
Tgt Ion:152 Resp: 4299
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

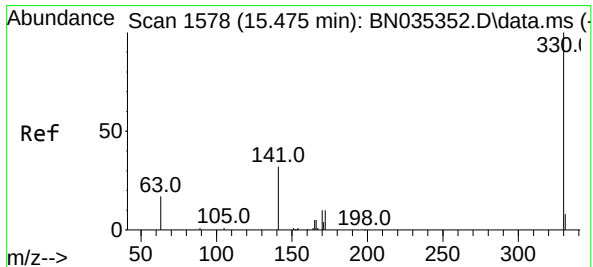
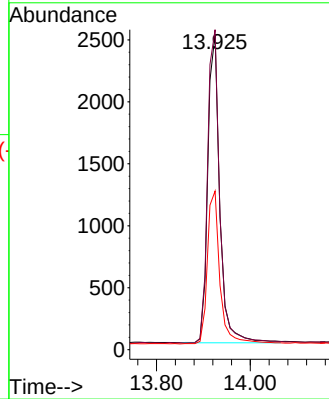
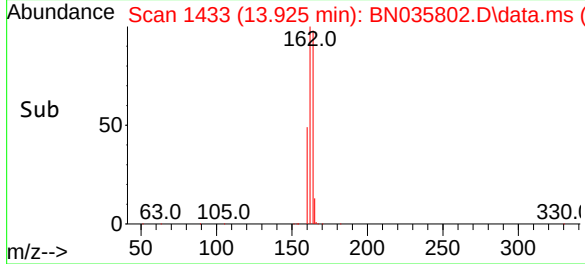
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion:164 Resp: 441
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.3 40.1 60.1

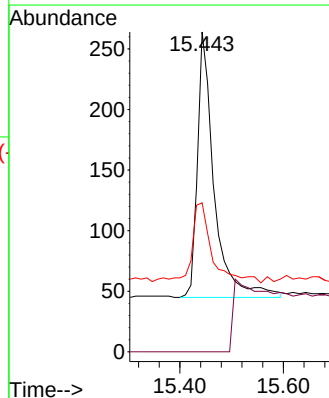
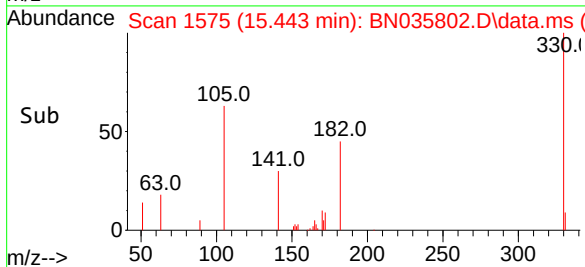
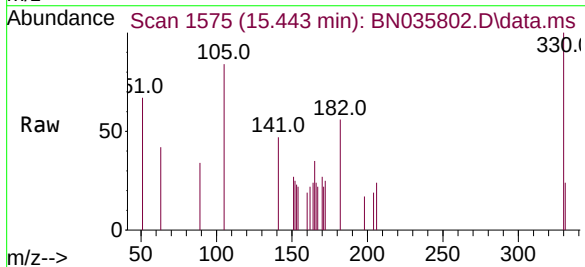
Manual Integrations
APPROVED

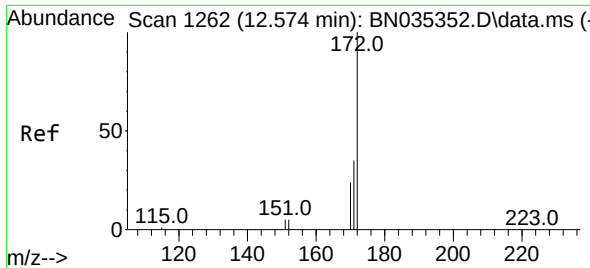
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.165 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

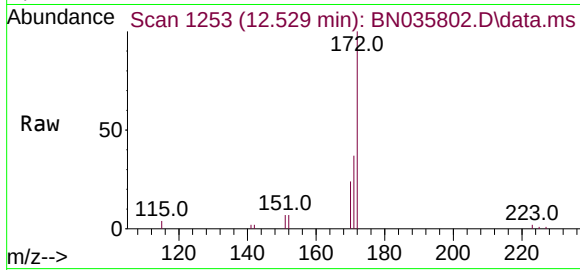
Tgt Ion:330 Resp: 516
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.418 ng
RT: 12.529 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

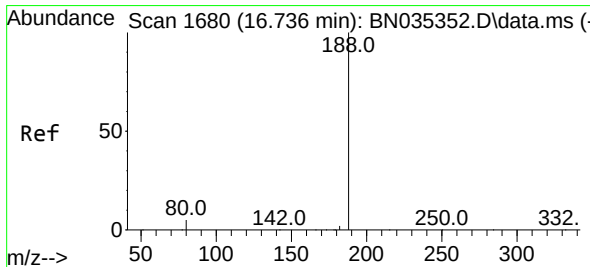
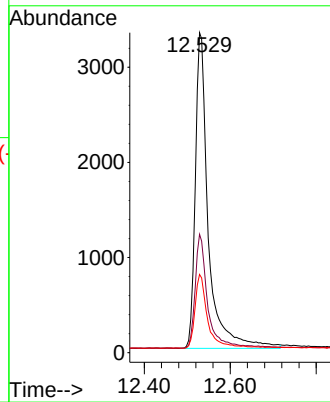
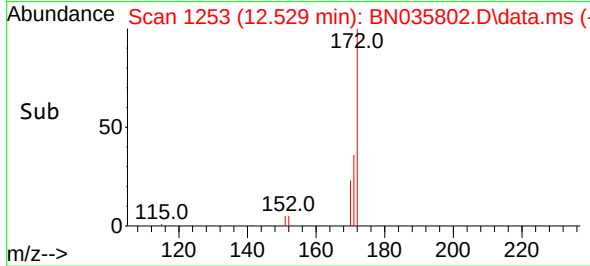
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion:172 Resp: 6969
Ion Ratio Lower Upper
172 100
171 37.0 29.0 43.4
170 24.4 19.8 29.8

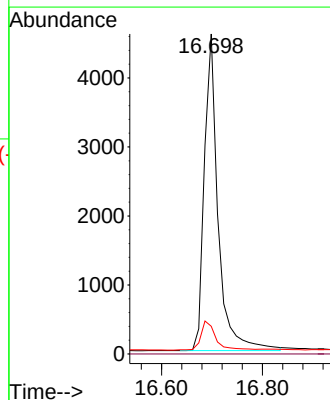
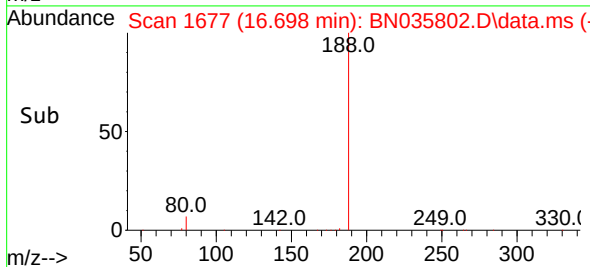
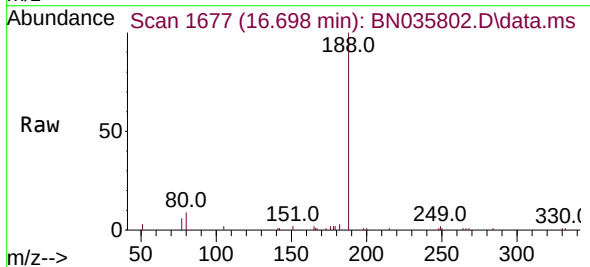
Manual Integrations
APPROVED

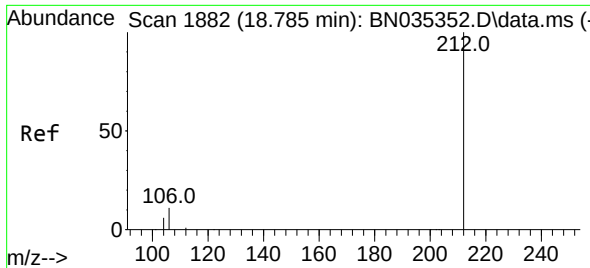
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

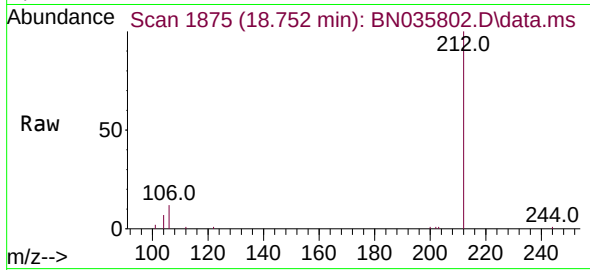
Tgt Ion:188 Resp: 8736
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.6 4.6 6.8





#27
Fluoranthene-d10
Concen: 0.454 ng
RT: 18.752 min Scan# 1123
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

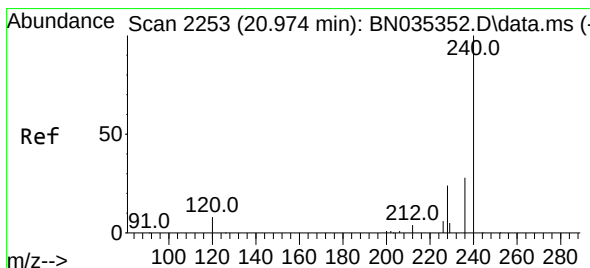
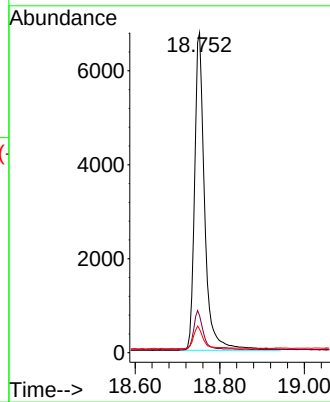
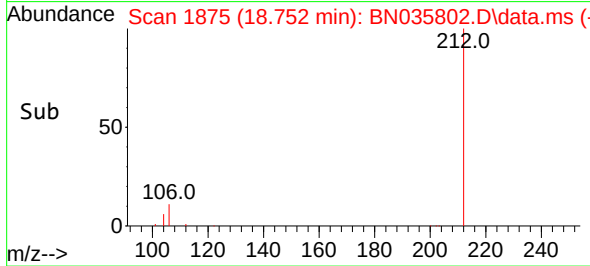
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion:212 Resp: 1123
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 7.0 5.3 7.9

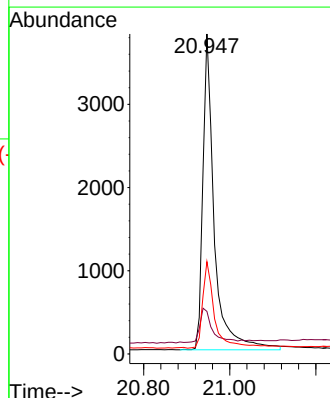
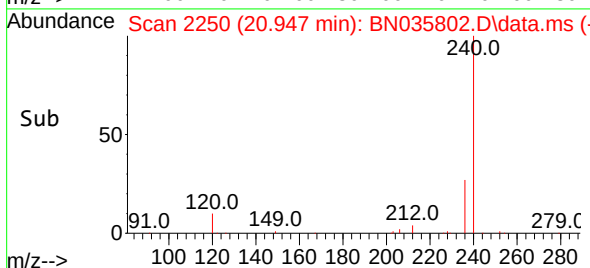
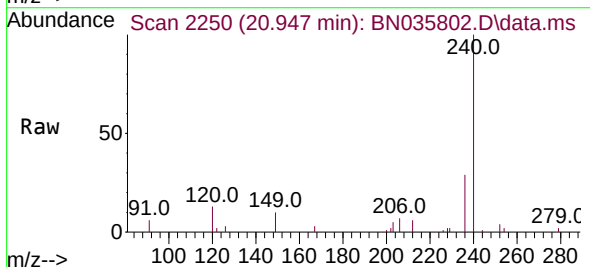
Manual Integrations
APPROVED

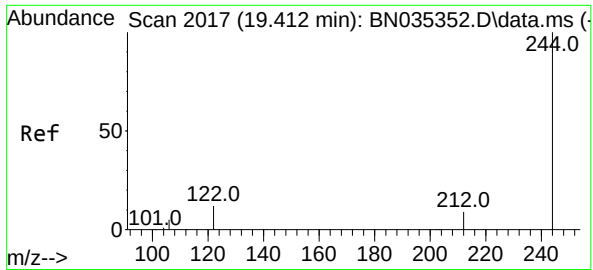
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

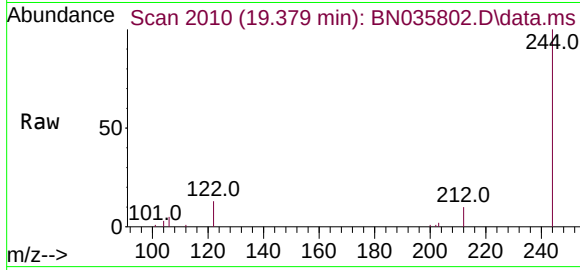
Tgt Ion:240 Resp: 7014
Ion Ratio Lower Upper
240 100
120 13.3 7.9 11.9#
236 28.8 22.9 34.3





#31
Terphenyl-d14
Concen: 0.590 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

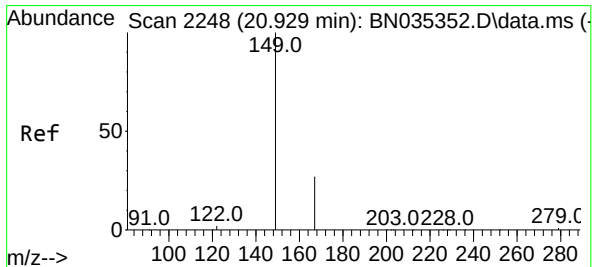
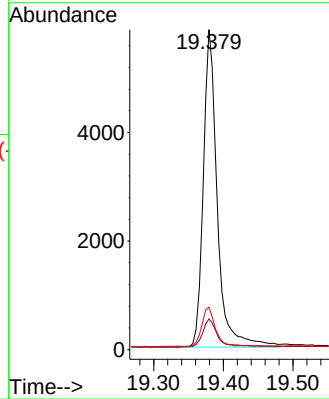
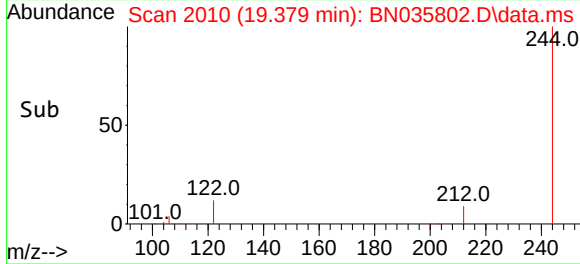
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion:244 Resp: 816
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 13.2 10.3 15.5

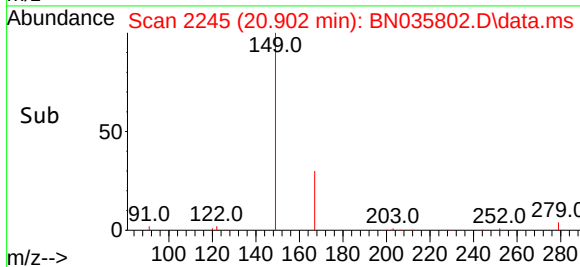
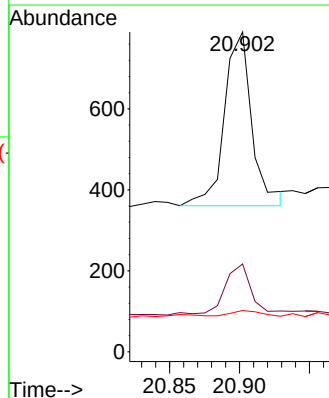
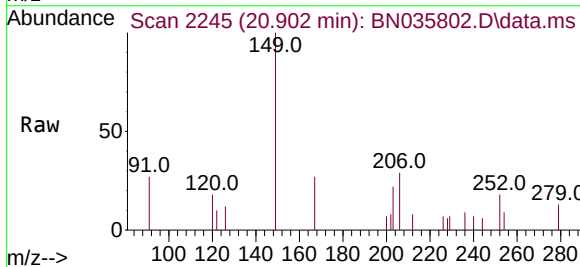
Manual Integrations
APPROVED

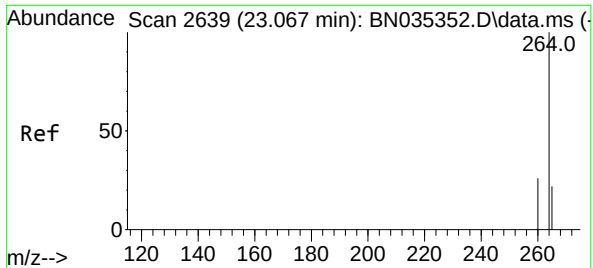
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.060 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion:149 Resp: 585
Ion Ratio Lower Upper
149 100
167 32.1 22.2 33.4
279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.035 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN035802.D

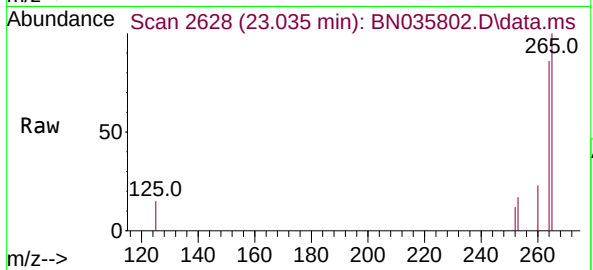
Acq: 24 Dec 2024 03:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241212



Tgt Ion:264 Resp: 495

Ion Ratio Lower Upper

264 100

260 27.2 21.4 32.2

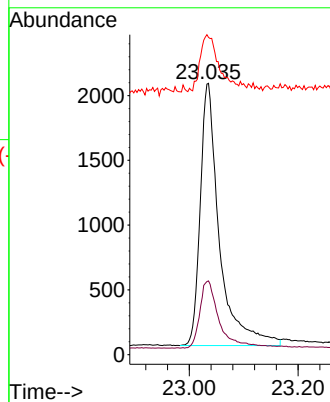
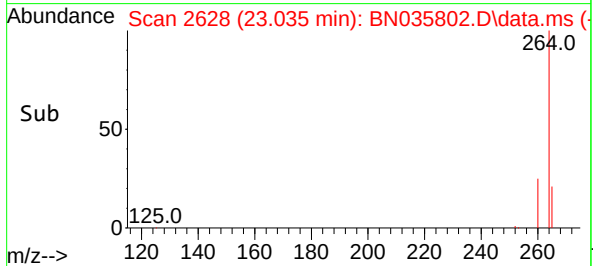
265 117.0 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/12/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	RW7-SP302-20241212	SDG No.:	P5282
Lab Sample ID:	P5282-03	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
BN035803.D	1	12/16/24 11:30	12/24/24 03:36	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.26		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		103%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 - 150		128%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2930		7.264			
1146-65-2	Naphthalene-d8	6520		10.009			
15067-26-2	Acenaphthene-d10	3960		13.924			
1517-22-2	Phenanthrene-d10	7720		16.698			
1719-03-5	Chrysene-d12	6410		20.947			
1520-96-3	Perylene-d12	6110		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 : BN035803.D
 Acq On : 24 Dec 2024 03:36
 Operator : RC/JU
 Sample : P5282-03
 Misc :
 ALS Vial : 85 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20241212

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 04:50:54 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	2931	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6518	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	3960	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	7717	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6406	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6112	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	690	0.094	ng	0.00
5) Phenol-d6	6.484	99	422	0.048	ng	0.00
8) Nitrobenzene-d5	8.408	82	1948m	0.489	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	4202	0.412	ng	0.00
14) 2,4,6-Tribromophenol	15.464	330	183	0.065	ng	0.01
15) 2-Fluorobiphenyl	12.543	172	6568	0.439	ng	0.00
27) Fluoranthene-d10	18.752	212	11193	0.512	ng	0.00
31) Terphenyl-d14	19.379	244	8059	0.638	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	741	0.264	ng	# 92
34) Bis(2-ethylhexyl)phtha...	20.893	149	590	0.067	ng	93

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

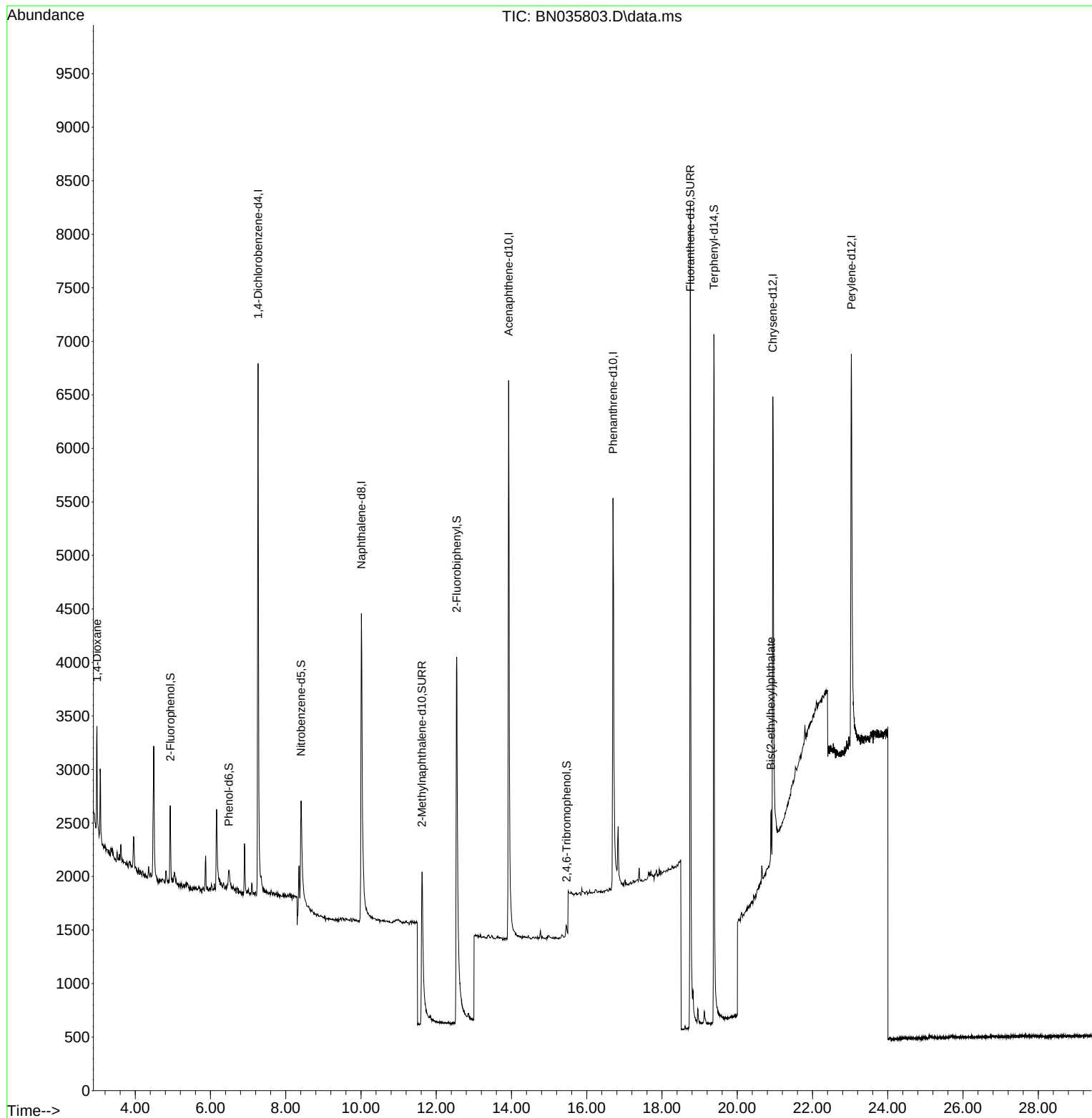
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035803.D
Acq On : 24 Dec 2024 03:36
Operator : RC/JU
Sample : P5282-03
Misc :
ALS Vial : 85 Sample Multiplier: 1

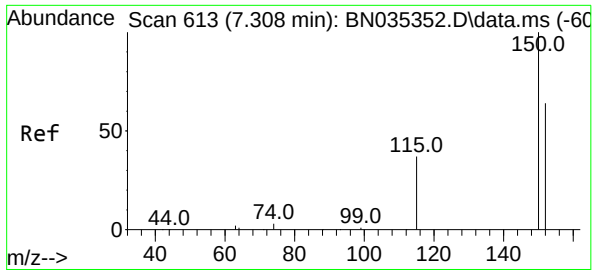
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

Manual Integrations
APPROVED

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

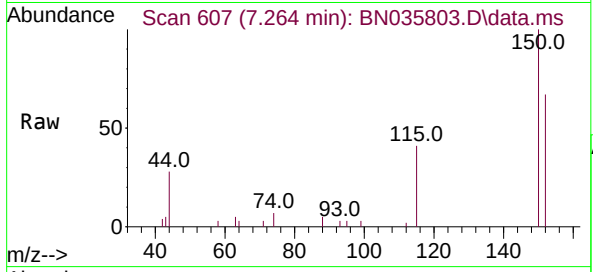
Quant Time: Dec 24 04:50:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

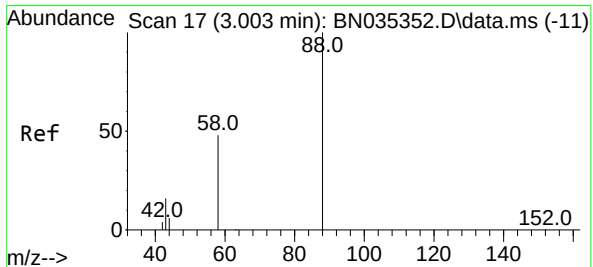
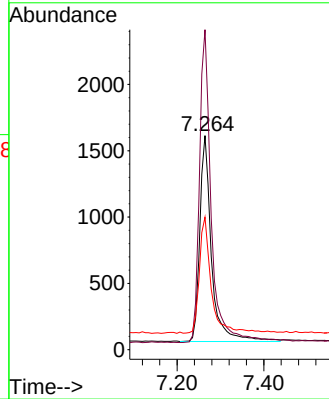
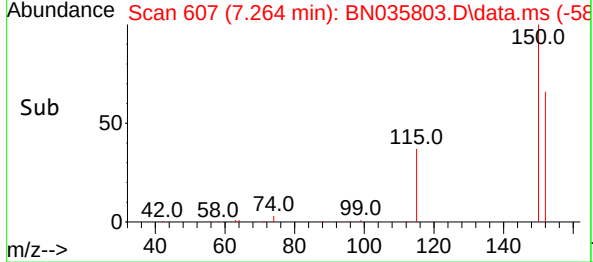
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212



Tgt Ion: 152 Resp: 293
Ion Ratio Lower Upper
152 100
150 149.5 124.0 186.0
115 61.9 49.6 74.4

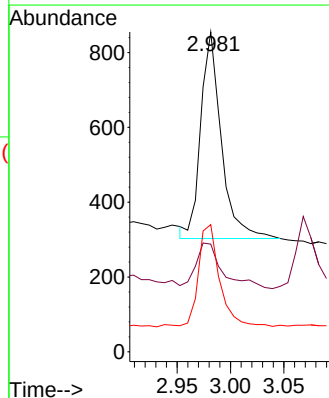
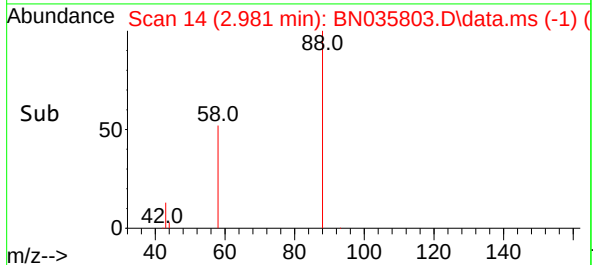
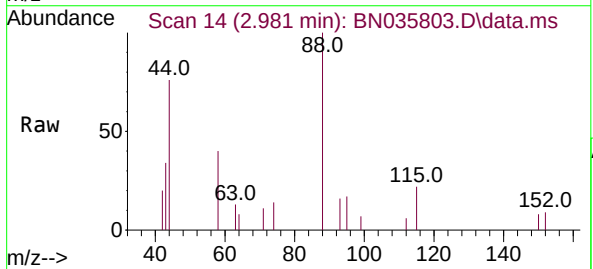
Manual Integrations
APPROVED

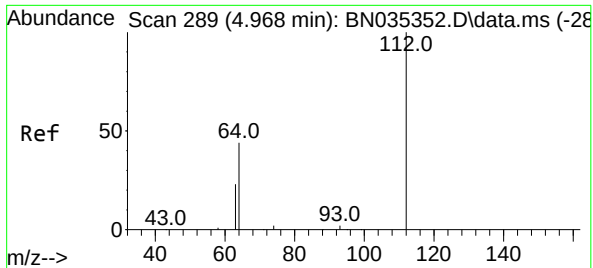
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.264 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion: 88 Resp: 741
Ion Ratio Lower Upper
88 100
43 28.9 17.2 25.8#
58 51.6 44.5 66.7





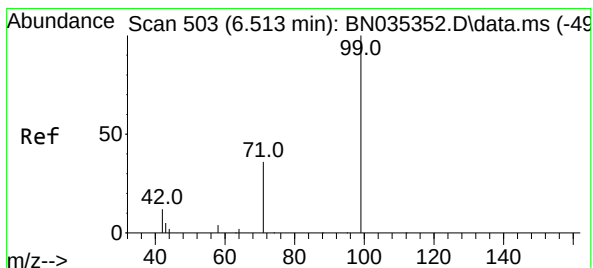
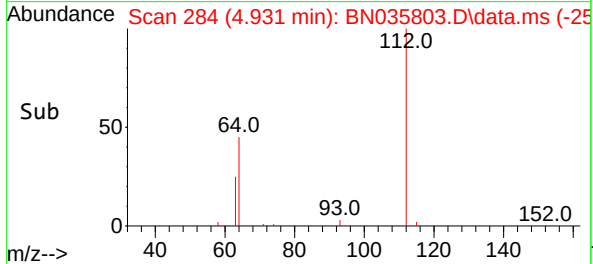
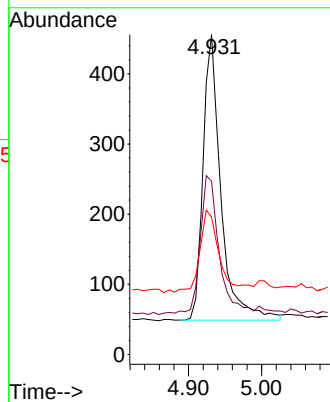
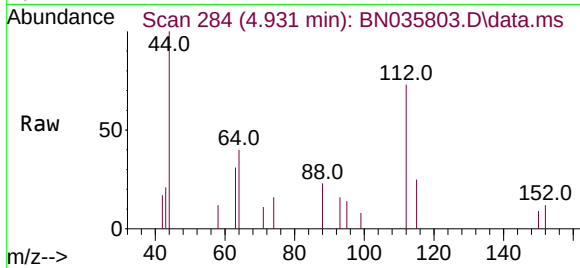
#4
2-Fluorophenol
Concen: 0.094 ng
RT: 4.931 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

Tgt Ion: 112 Resp: 690
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 30.1 21.0 31.6

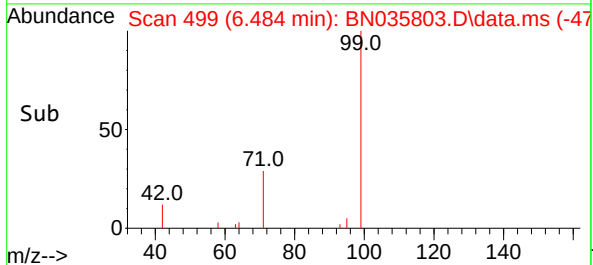
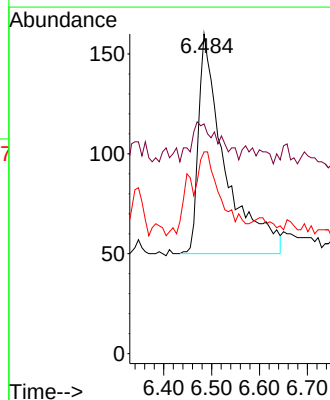
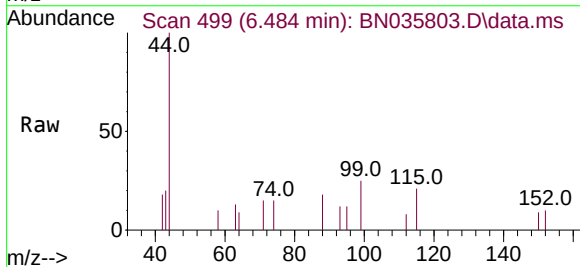
Manual Integrations
APPROVED

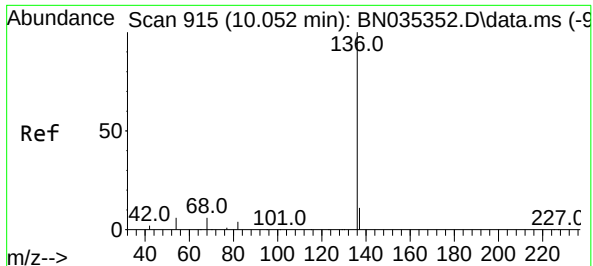
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion: 99 Resp: 422
Ion Ratio Lower Upper
99 100
42 18.7 11.4 17.2#
71 28.9 29.3 43.9#





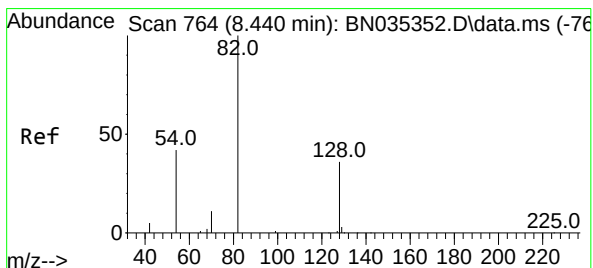
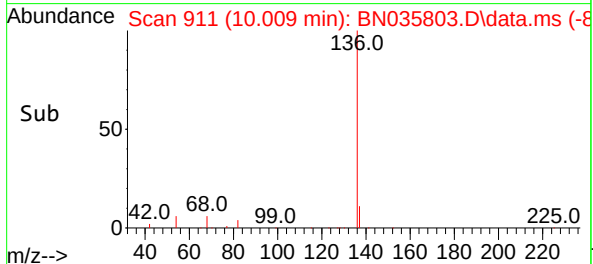
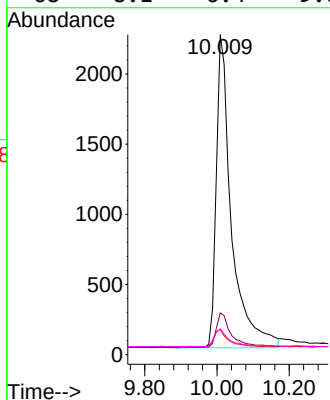
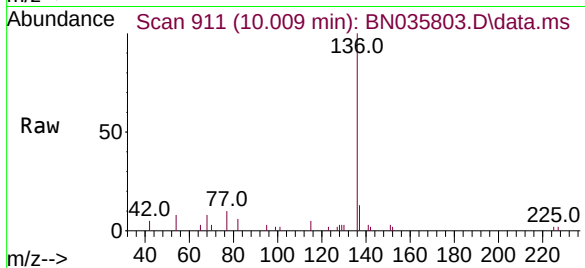
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

Tgt Ion: 136 Resp: 6518
Ion Ratio Lower Upper
136 100
137 13.1 10.2 15.2
54 7.9 6.1 9.1
68 8.1 6.4 9.6

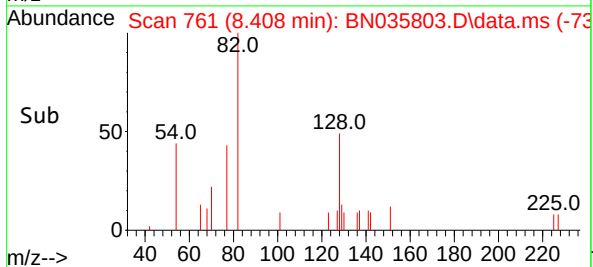
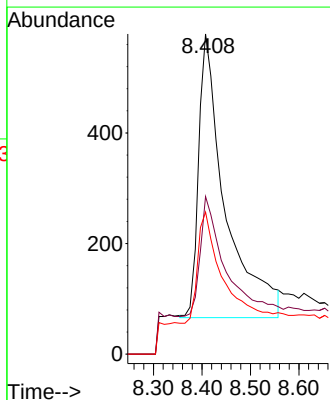
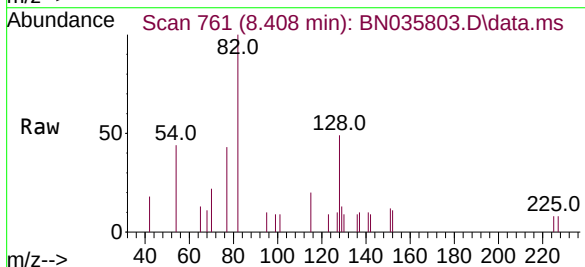
Manual Integrations
APPROVED

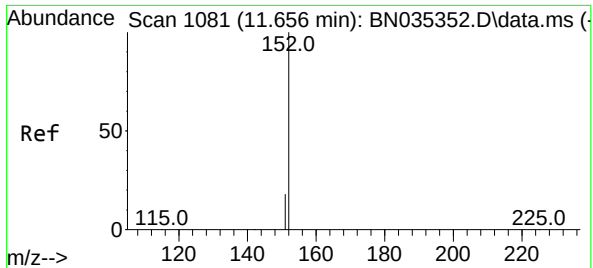
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.489 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

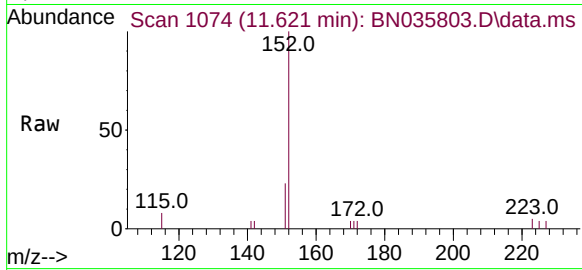
Tgt Ion: 82 Resp: 1948
Ion Ratio Lower Upper
82 100
128 49.2 33.4 50.0
54 44.4 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.412 ng
RT: 11.621 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

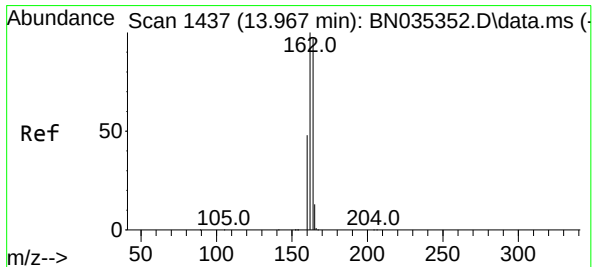
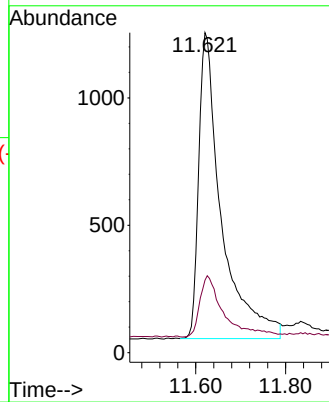
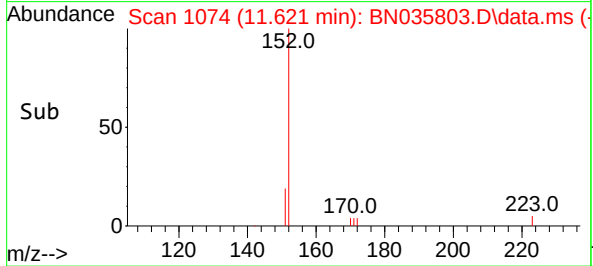
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212



Tgt Ion:152 Resp: 420
Ion Ratio Lower Upper
152 100
151 21.3 16.6 25.0

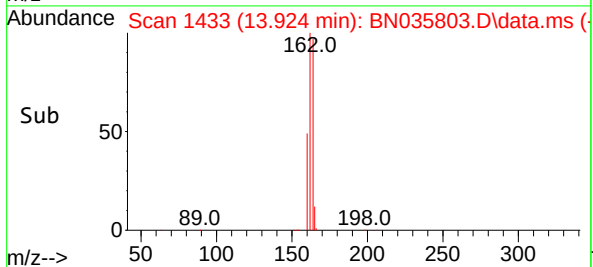
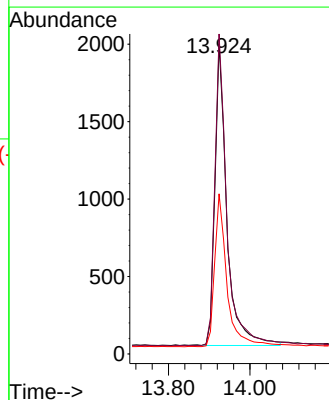
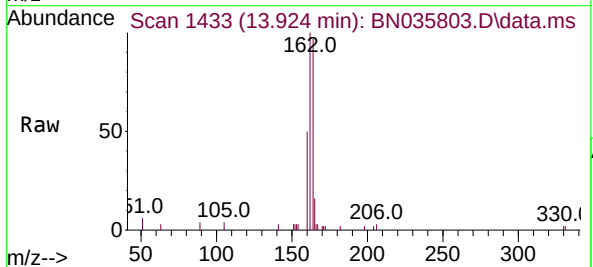
Manual Integrations
APPROVED

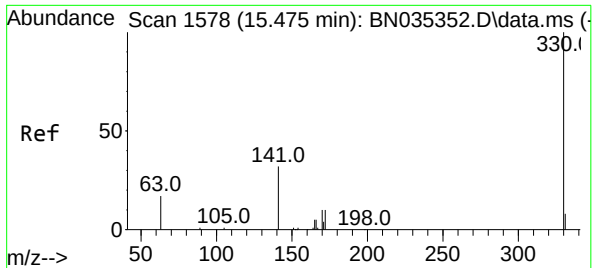
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

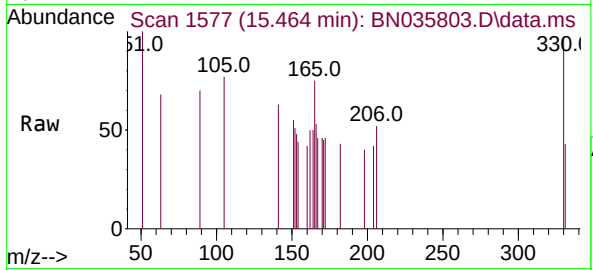
Tgt Ion:164 Resp: 3960
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 51.6 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.065 ng
RT: 15.464 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

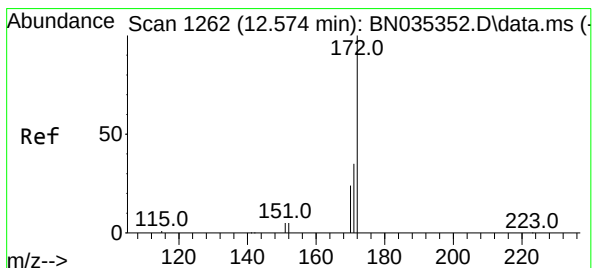
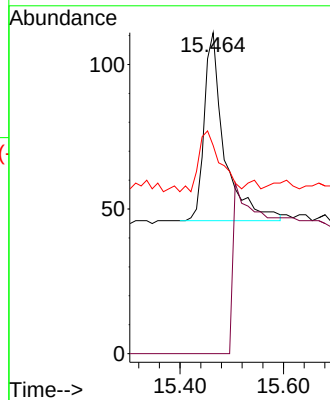
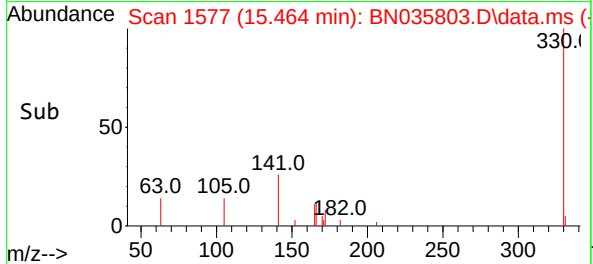
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212



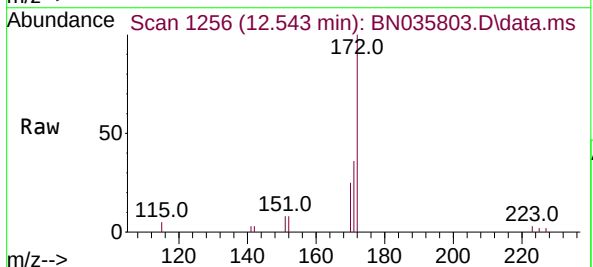
Tgt Ion:330 Resp: 183
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.9 26.6 40.0

Manual Integrations
APPROVED

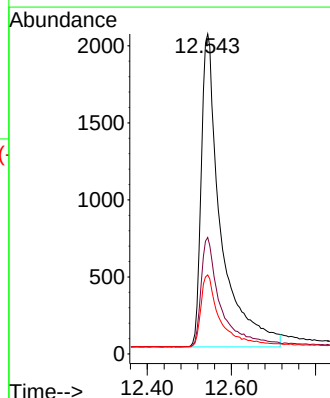
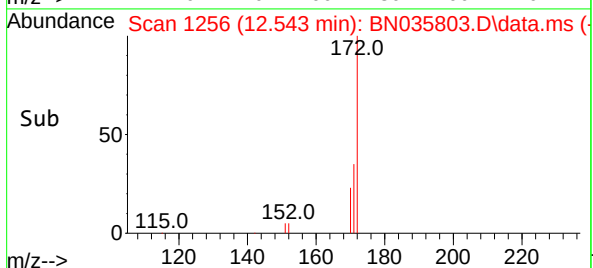
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

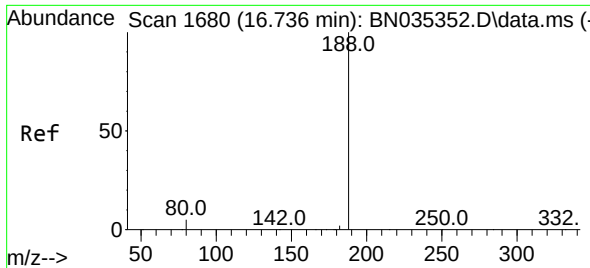


#15
2-Fluorobiphenyl
Concen: 0.439 ng
RT: 12.543 min Scan# 1256
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36



Tgt Ion:172 Resp: 6568
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 24.7 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035803.D

Acq: 24 Dec 2024 03:36

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20241212

Tgt Ion:188 Resp: 771

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

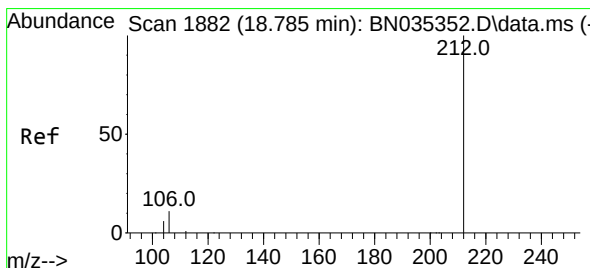
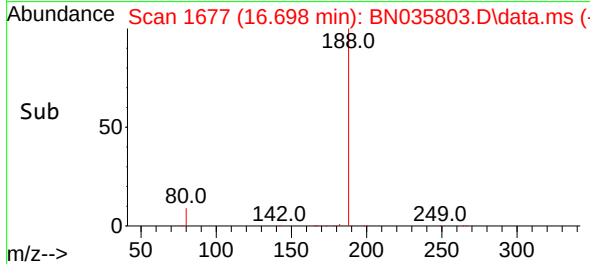
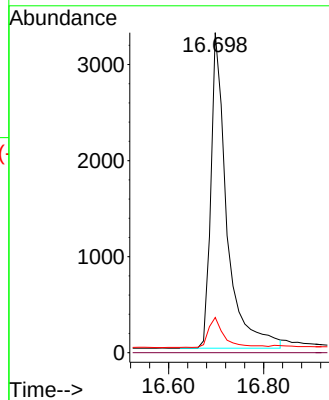
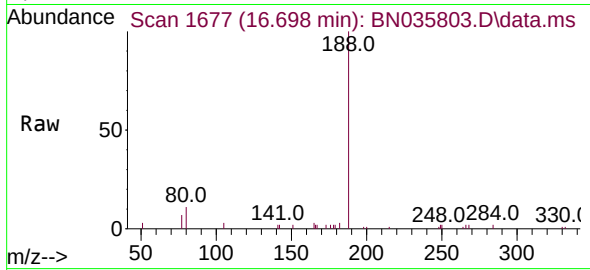
80 11.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#27

Fluoranthene-d10

Concen: 0.512 ng

RT: 18.752 min Scan# 1875

Delta R.T. -0.010 min

Lab File: BN035803.D

Acq: 24 Dec 2024 03:36

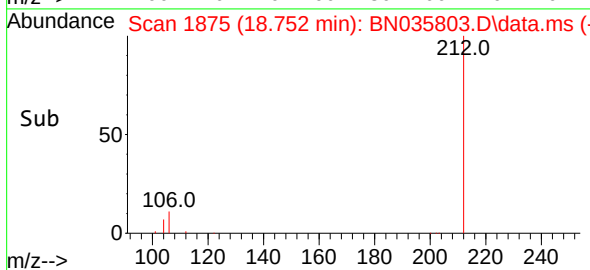
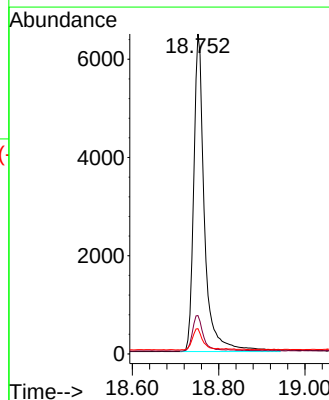
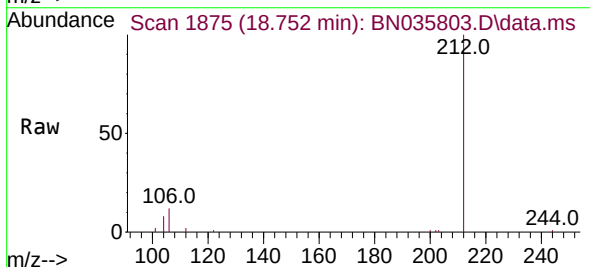
Tgt Ion:212 Resp: 11193

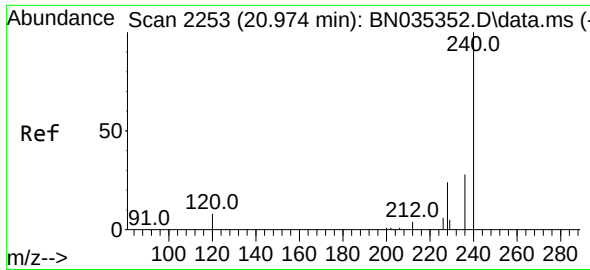
Ion Ratio Lower Upper

212 100

106 11.2 9.2 13.8

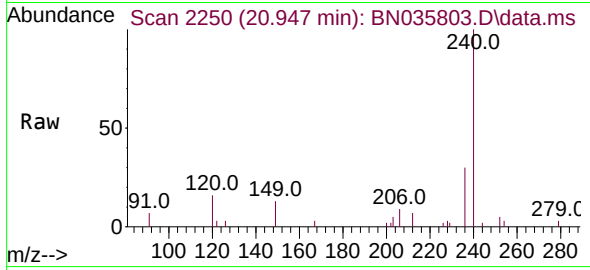
104 6.6 5.3 7.9





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

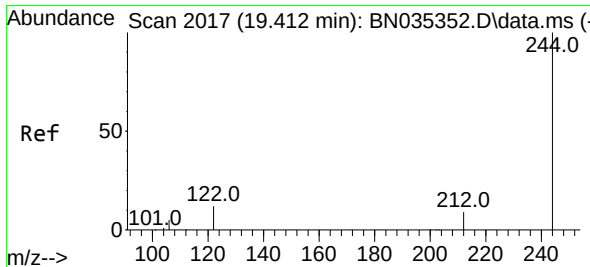
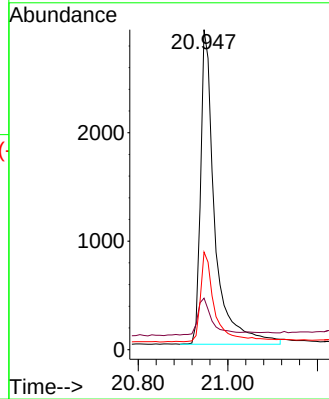
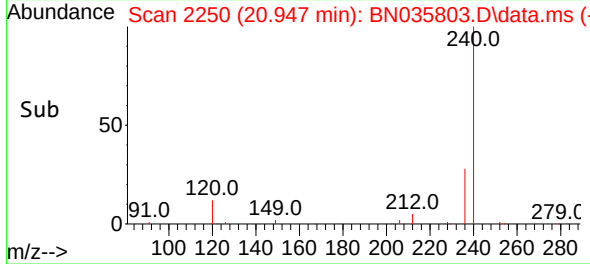
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212



Tgt Ion:240 Resp: 6400
Ion Ratio Lower Upper
240 100
120 16.1 7.9 11.9
236 30.5 22.9 34.3

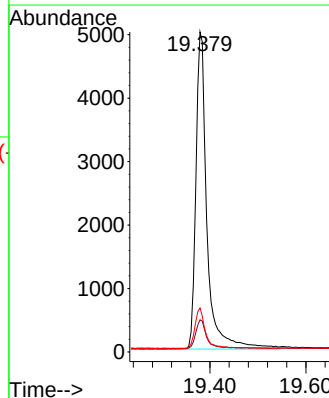
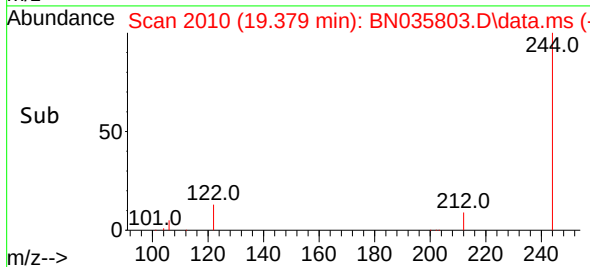
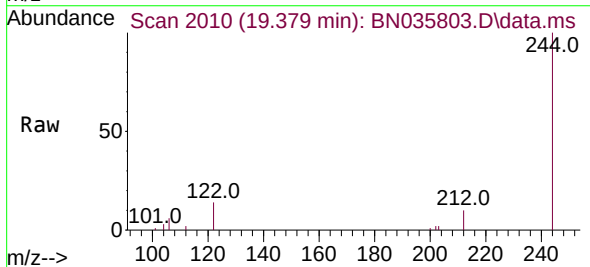
Manual Integrations
APPROVED

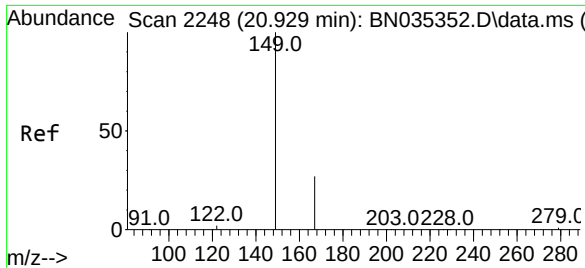
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#31
Terphenyl-d14
Concen: 0.638 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

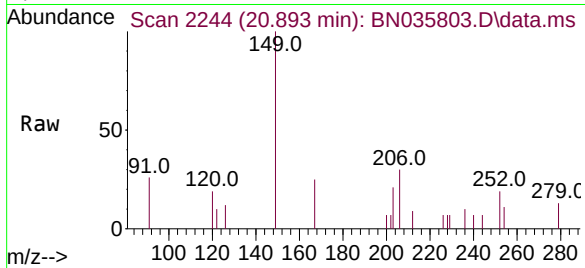
Tgt Ion:244 Resp: 8059
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 13.8 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

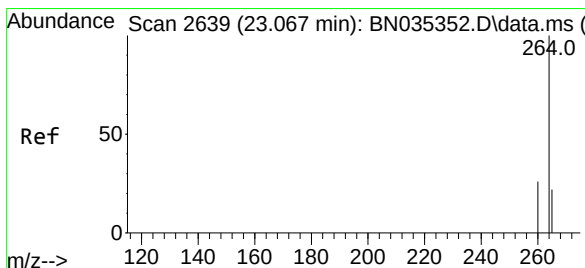
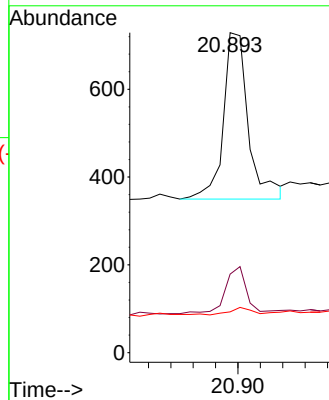
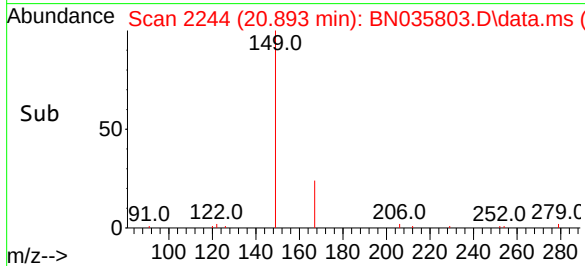
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212



Tgt Ion:149 Resp: 590
Ion Ratio Lower Upper
149 100
167 23.9 22.2 33.4
279 3.7 2.7 4.1

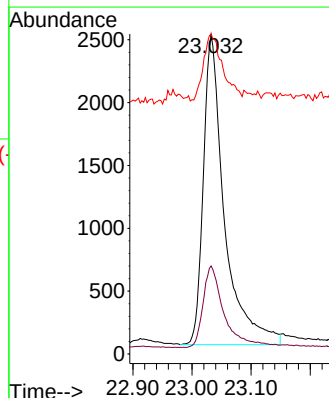
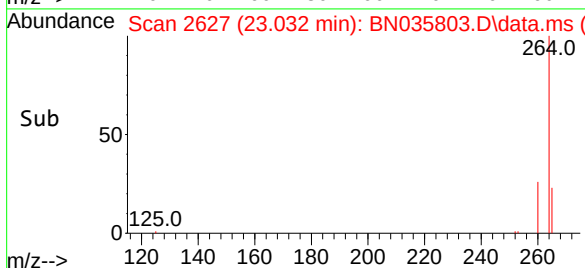
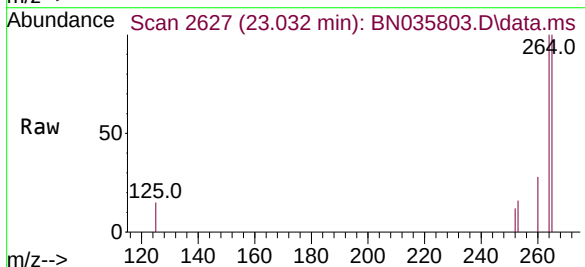
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion:264 Resp: 6112
Ion Ratio Lower Upper
264 100
260 27.6 21.4 32.2
265 100.2 40.2 60.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/12/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	RW7-SP303-20241212	SDG No.:	P5282
Lab Sample ID:	P5282-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035804.D	1	12/16/24 11:30	12/24/24 04:12	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.26		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	0.53		30 - 150		133%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.52	*	55 - 111		130%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		117%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.68	*	58 - 132		171%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3110		7.264			
1146-65-2	Naphthalene-d8	7130		10.009			
15067-26-2	Acenaphthene-d10	4220		13.924			
1517-22-2	Phenanthrene-d10	8490		16.698			
1719-03-5	Chrysene-d12	6560		20.947			
1520-96-3	Perylene-d12	6560		23.035			

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 : BN035804.D
 Acq On : 24 Dec 2024 04:12
 Operator : RC/JU
 Sample : P5282-04
 Misc :
 ALS Vial : 86 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20241212

Manual Integrations
APPROVED

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

Quant Time: Dec 24 04:51:01 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	3113	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7128	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4215	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8493	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6562	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	6560	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	1108	0.142	ng	0.00
5) Phenol-d6	6.484	99	597	0.064	ng	0.00
8) Nitrobenzene-d5	8.408	82	2266m	0.520	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4759	0.427	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	564	0.189	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	7460	0.468	ng	0.00
27) Fluoranthene-d10	18.752	212	12849	0.534	ng	0.00
31) Terphenyl-d14	19.379	244	8860	0.684	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	778	0.261	ng	93
34) Bis(2-ethylhexyl)phtha...	20.902	149	732	0.081	ng	# 94

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

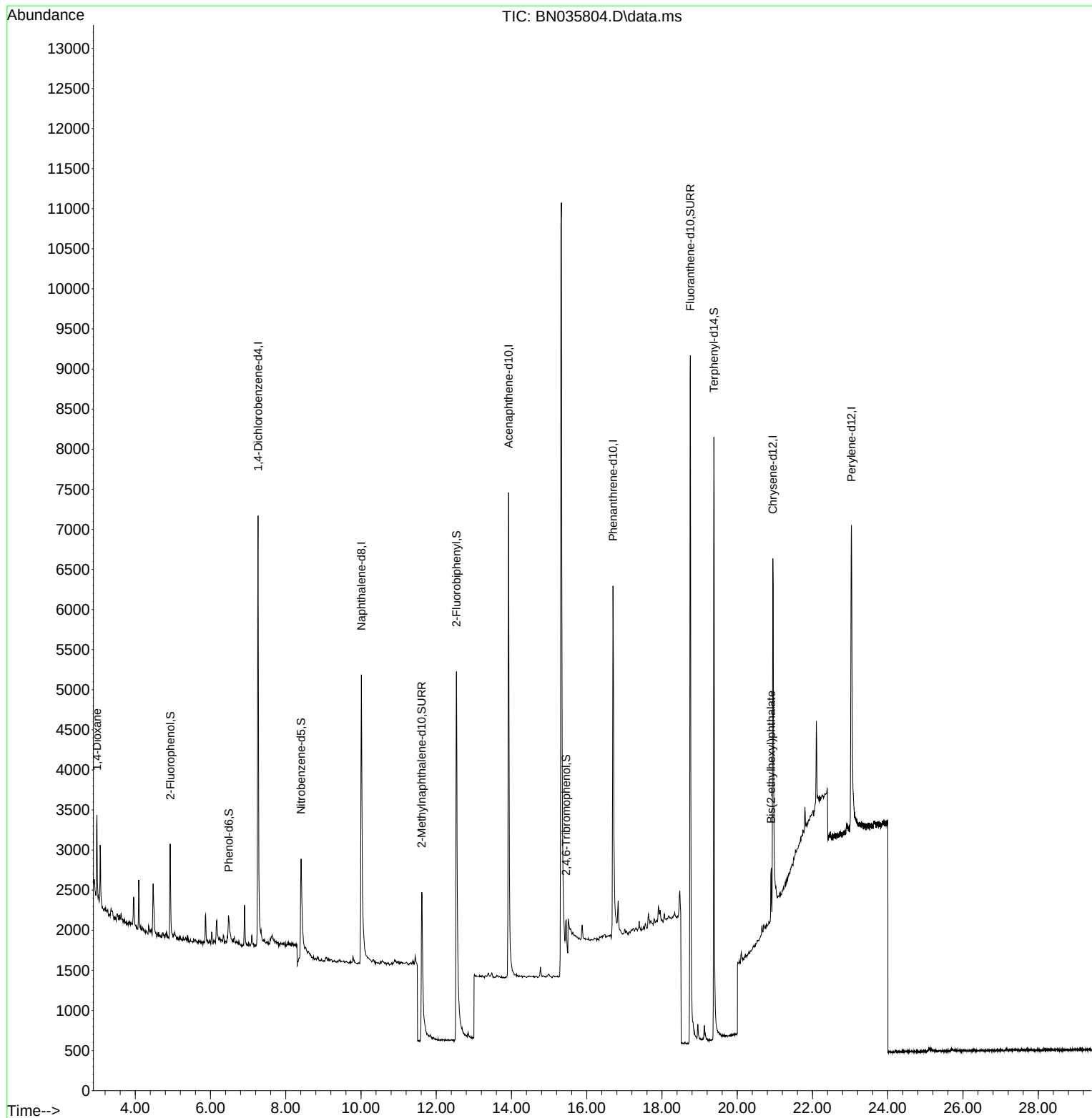
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035804.D
Acq On : 24 Dec 2024 04:12
Operator : RC/JU
Sample : P5282-04
Misc :
ALS Vial : 86 Sample Multiplier: 1

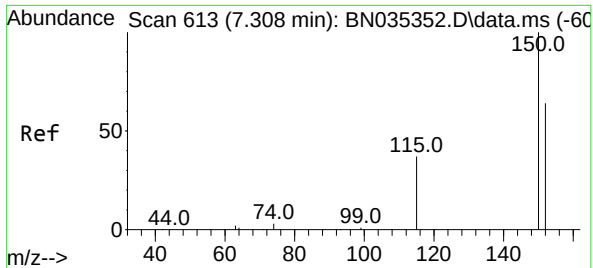
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

Manual Integrations
APPROVED

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

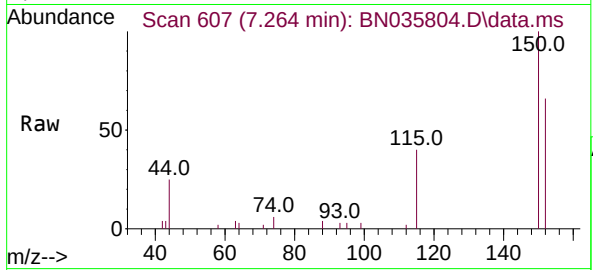
Quant Time: Dec 24 04:51:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

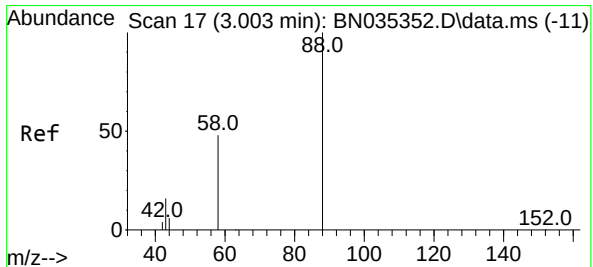
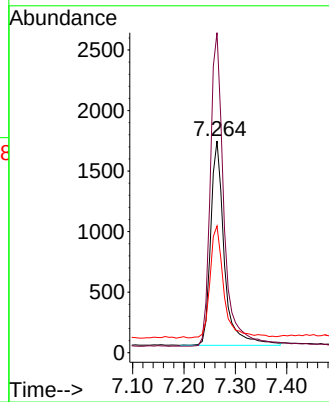
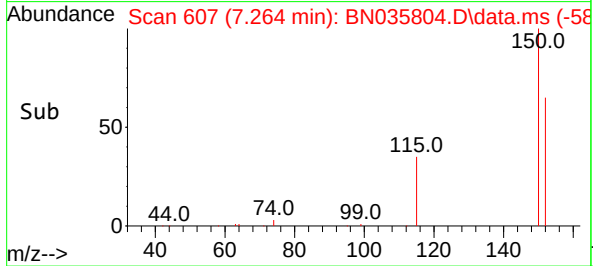
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212



Tgt Ion: 152 Resp: 311
Ion Ratio Lower Upper
152 100
150 151.1 124.0 186.0
115 59.9 49.6 74.4

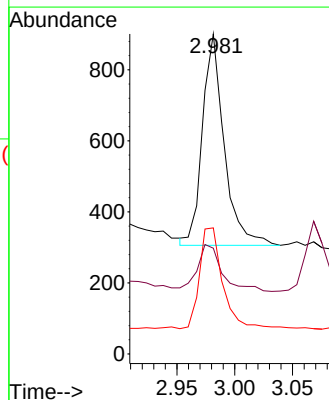
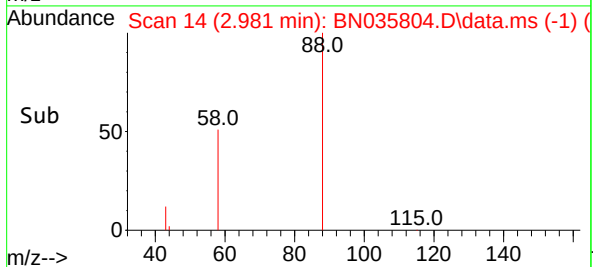
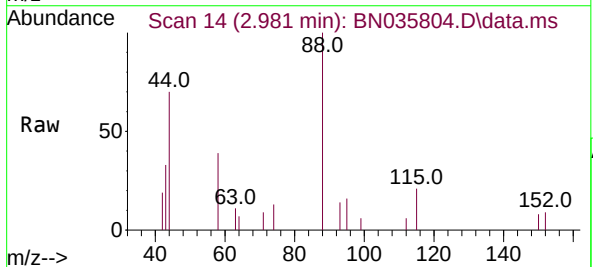
Manual Integrations
APPROVED

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

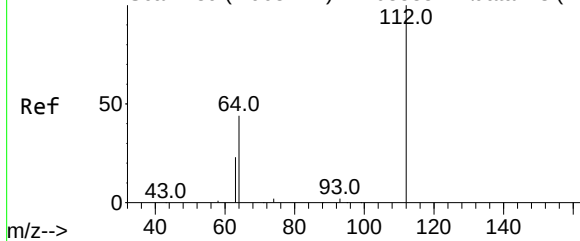


#2
1,4-Dioxane
Concen: 0.261 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion: 88 Resp: 778
Ion Ratio Lower Upper
88 100
43 25.2 17.2 25.8
58 50.6 44.5 66.7



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



#4

2-Fluorophenol

Concen: 0.142 ng

RT: 4.931 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035804.D

Acq: 24 Dec 2024 04:12

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241212

Tgt Ion:112 Resp: 110

Ion Ratio Lower Upper

112 100

64 52.2 39.8 59.8

63 28.8 21.0 31.6

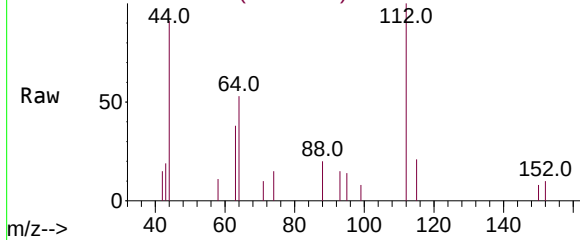
Manual Integrations

APPROVED

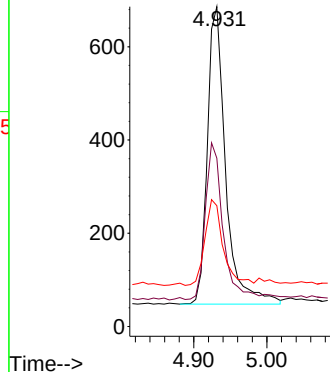
Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

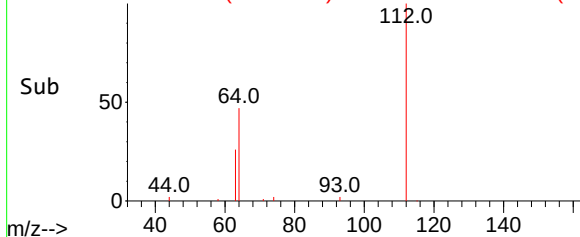
Abundance Scan 284 (4.931 min): BN035804.D\data.ms



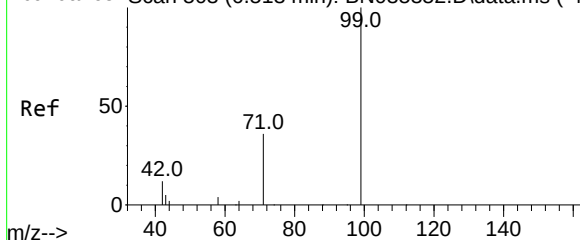
Abundance



Abundance Scan 284 (4.931 min): BN035804.D\data.ms (-25



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



#5

Phenol-d6

Concen: 0.064 ng

RT: 6.484 min Scan# 499

Delta R.T. -0.007 min

Lab File: BN035804.D

Acq: 24 Dec 2024 04:12

Tgt Ion: 99 Resp: 597

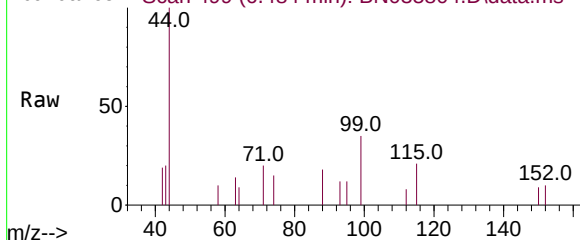
Ion Ratio Lower Upper

99 100

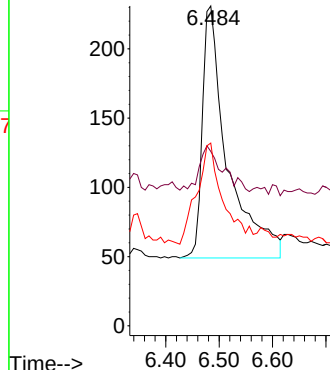
42 19.4 11.4 17.2#

71 42.0 29.3 43.9

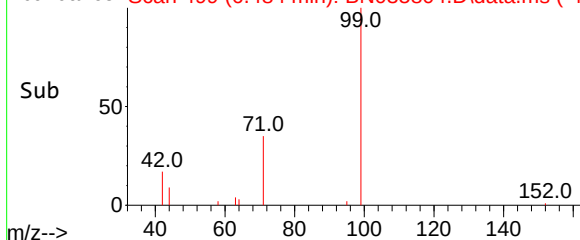
Abundance Scan 499 (6.484 min): BN035804.D\data.ms

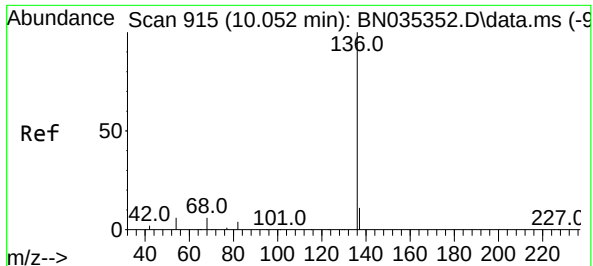


Abundance



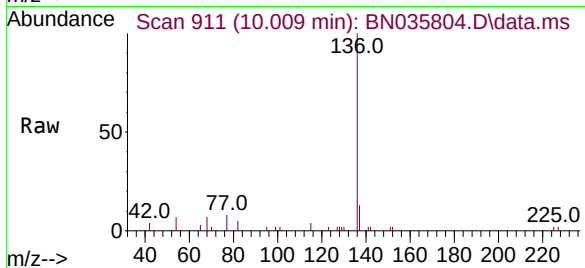
Abundance Scan 499 (6.484 min): BN035804.D\data.ms (-47





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

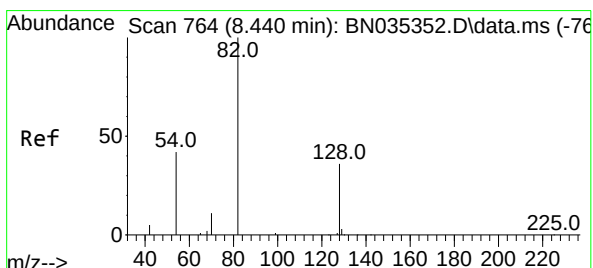
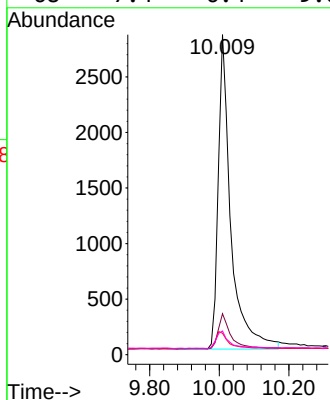
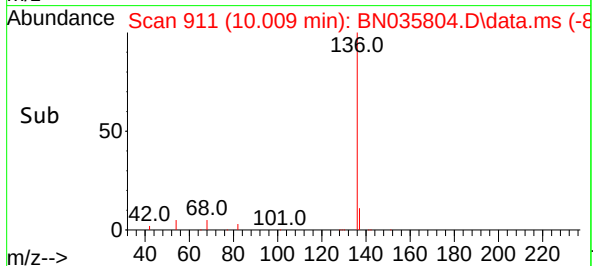
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212



Tgt Ion:136 Resp: 7128
Ion Ratio Lower Upper
136 100
137 12.8 10.2 15.2
54 6.7 6.1 9.1
68 7.4 6.4 9.6

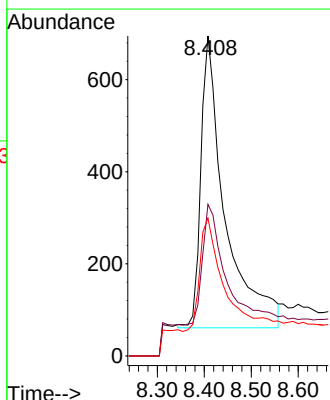
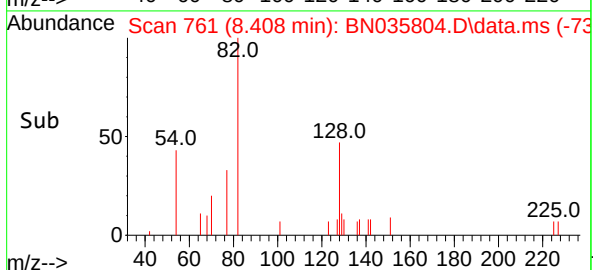
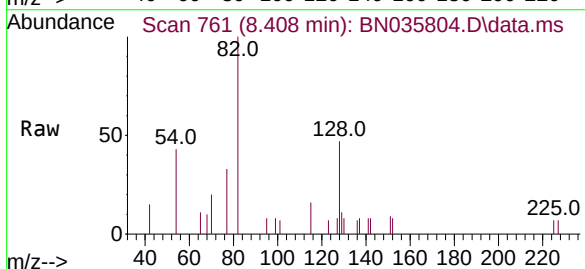
Manual Integrations
APPROVED

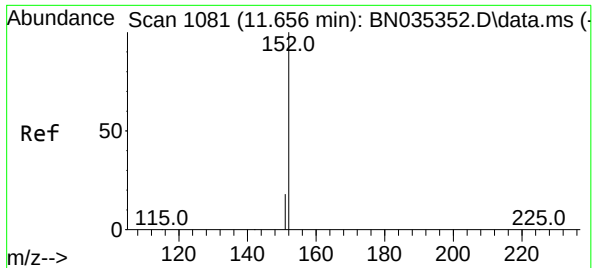
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.520 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

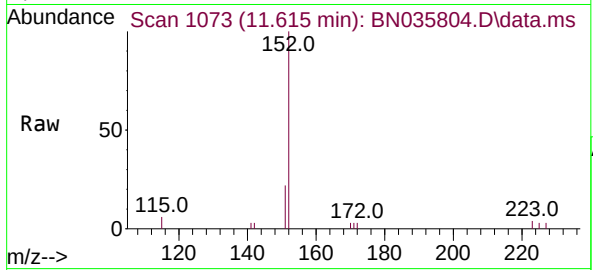
Tgt Ion: 82 Resp: 2266
Ion Ratio Lower Upper
82 100
128 47.3 33.4 50.0
54 43.0 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.615 min Scan# 1081
Delta R.T. -0.005 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

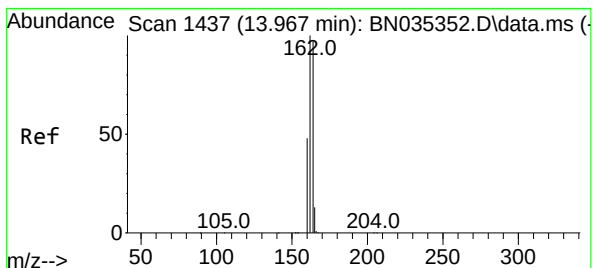
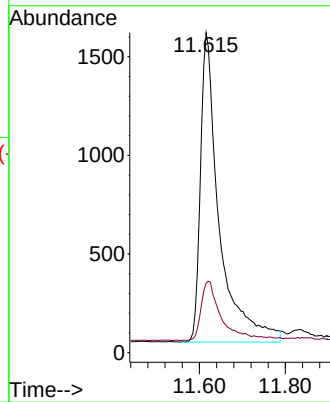
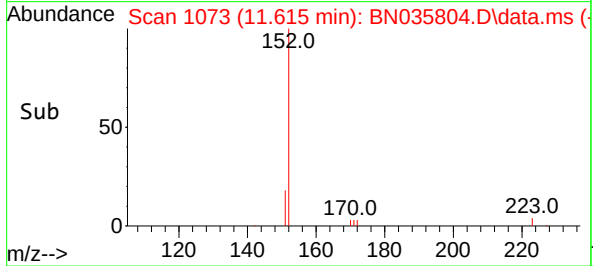
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212



Tgt Ion:152 Resp: 4759
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

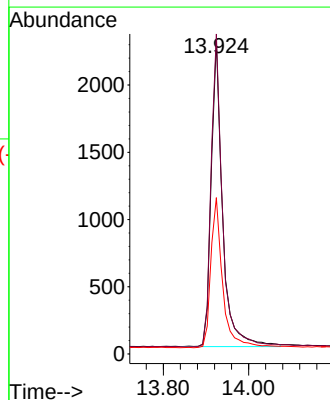
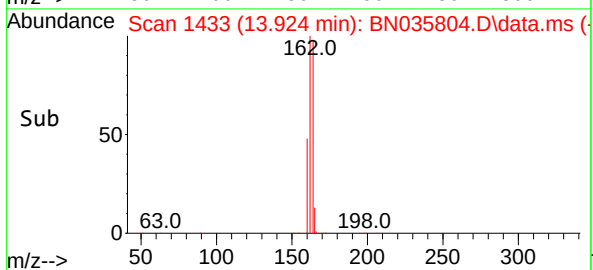
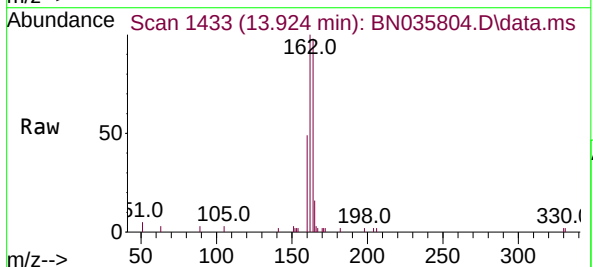
Manual Integrations
APPROVED

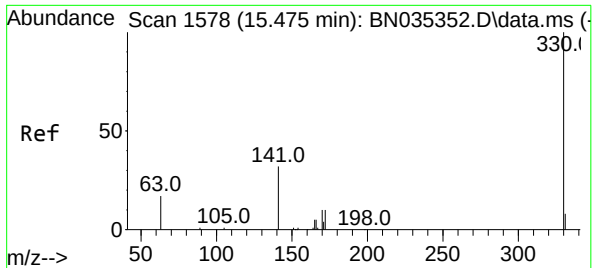
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

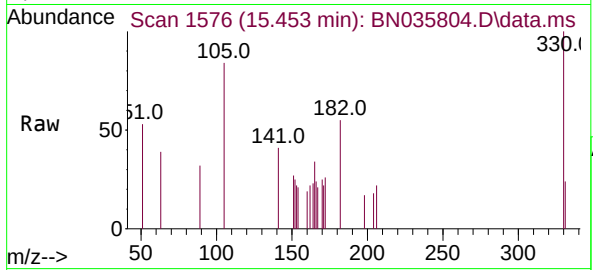
Tgt Ion:164 Resp: 4215
Ion Ratio Lower Upper
164 100
162 102.1 82.2 123.2
160 49.9 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.189 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

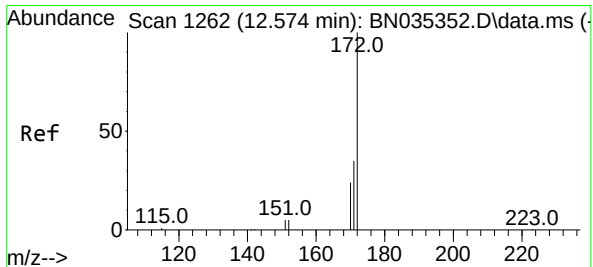
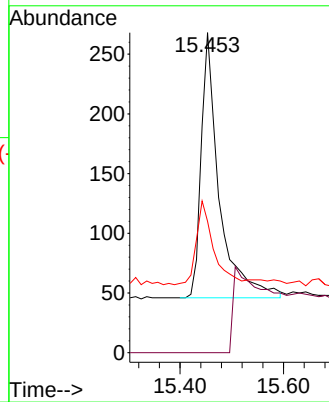
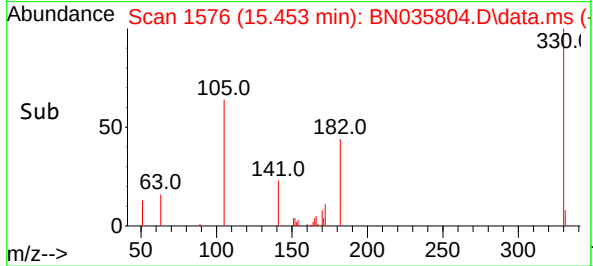
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212



Tgt Ion: 330 Resp: 564
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.4 26.6 40.0

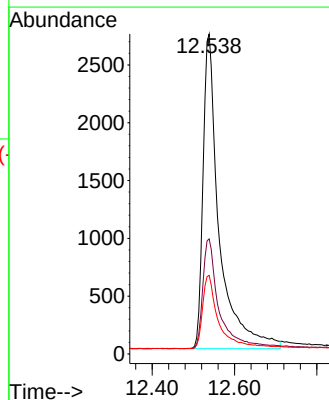
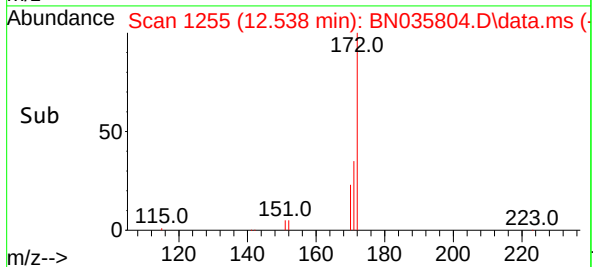
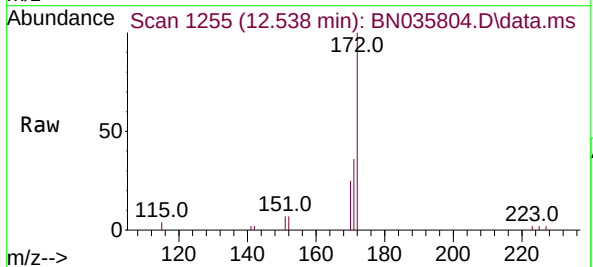
Manual Integrations
APPROVED

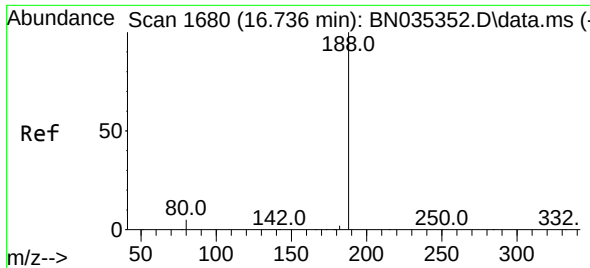
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#15
2-Fluorobiphenyl
Concen: 0.468 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion: 172 Resp: 7460
Ion Ratio Lower Upper
172 100
171 35.9 29.0 43.4
170 24.5 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035804.D

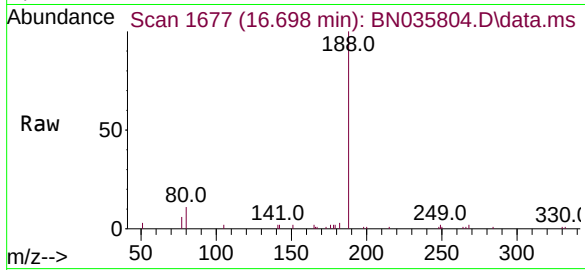
Acq: 24 Dec 2024 04:12

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241212



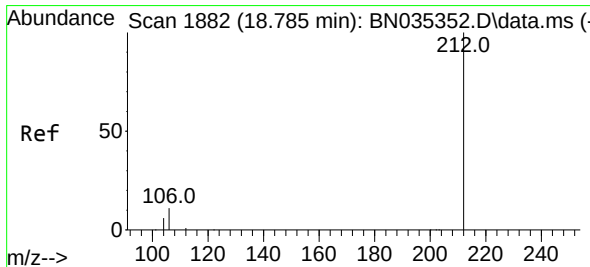
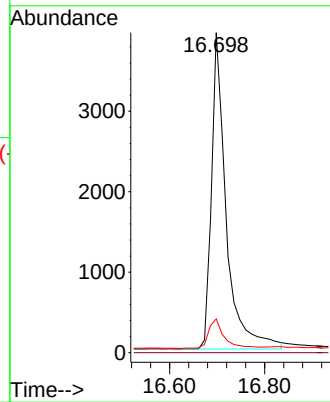
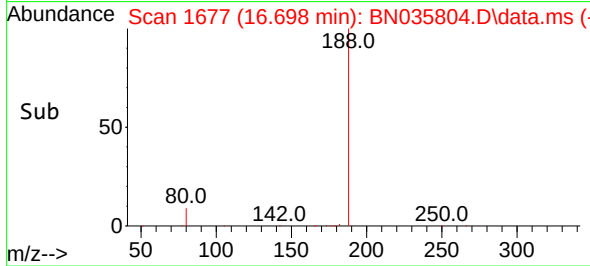
Tgt Ion:	188	Resp:	849
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.5	4.6	6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#27

Fluoranthene-d10

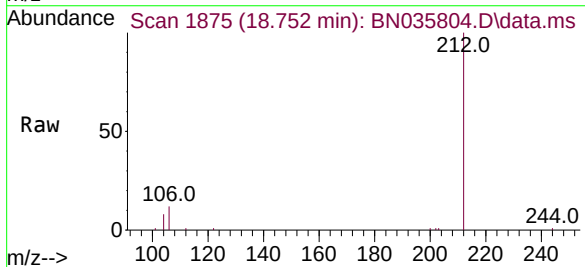
Concen: 0.534 ng

RT: 18.752 min Scan# 1875

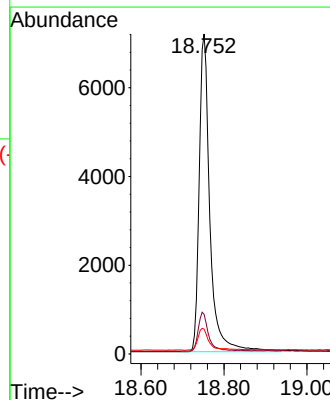
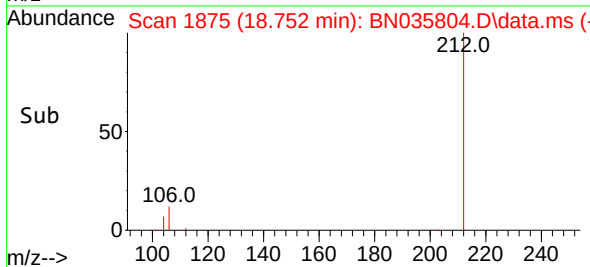
Delta R.T. -0.010 min

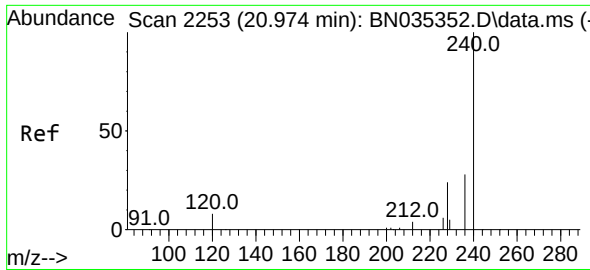
Lab File: BN035804.D

Acq: 24 Dec 2024 04:12



Tgt Ion:	212	Resp:	12849
Ion Ratio	Lower	Upper	
212	100		
106	12.0	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: BN035804.D

Acq: 24 Dec 2024 04:12

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241212

Tgt Ion:240 Resp: 6562

Ion Ratio Lower Upper

240 100

120 16.9 7.9 11.9

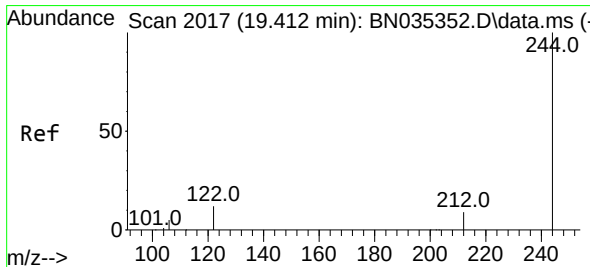
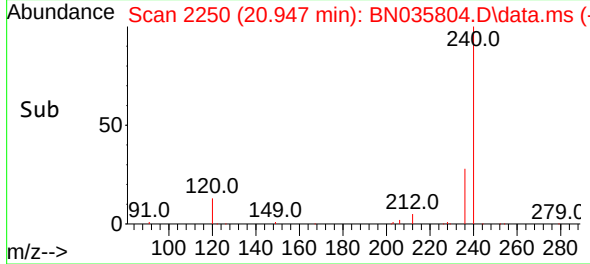
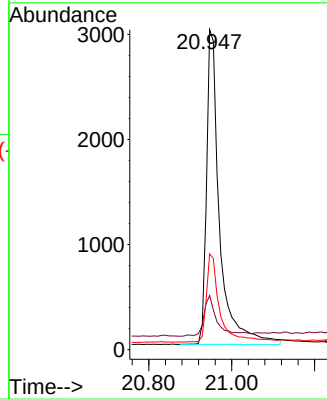
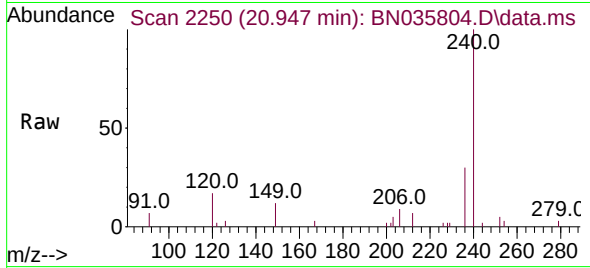
236 30.0 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#31

Terphenyl-d14

Concen: 0.684 ng

RT: 19.379 min Scan# 2010

Delta R.T. -0.010 min

Lab File: BN035804.D

Acq: 24 Dec 2024 04:12

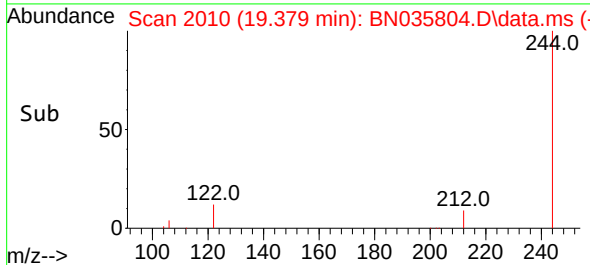
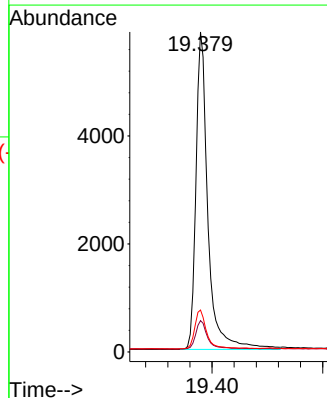
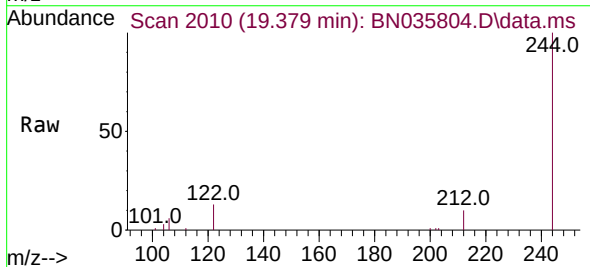
Tgt Ion:244 Resp: 8860

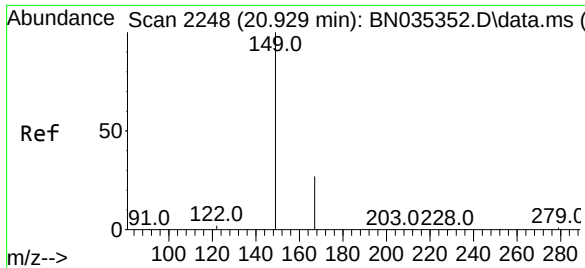
Ion Ratio Lower Upper

244 100

212 9.8 8.1 12.1

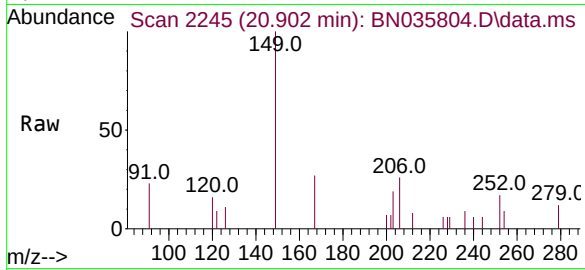
122 13.1 10.3 15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.081 ng
RT: 20.902 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

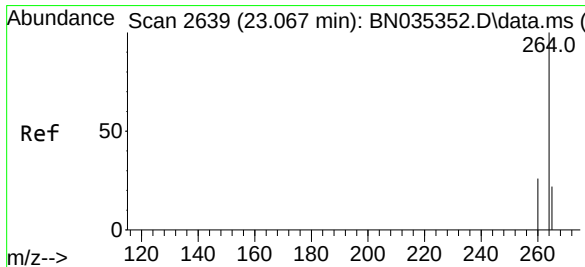
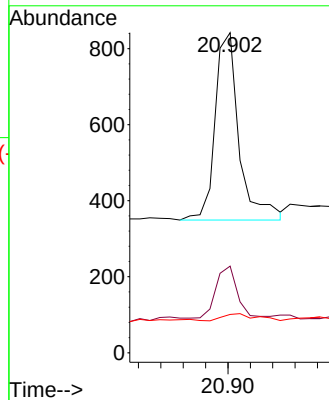
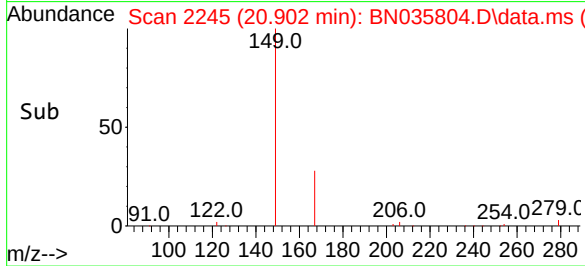
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212



Tgt Ion:149 Resp: 732
Ion Ratio Lower Upper
149 100
167 24.6 22.2 33.4
279 5.3 2.7 4.1

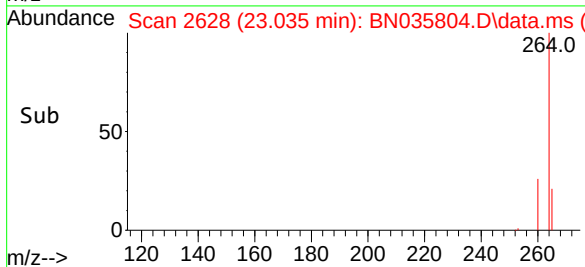
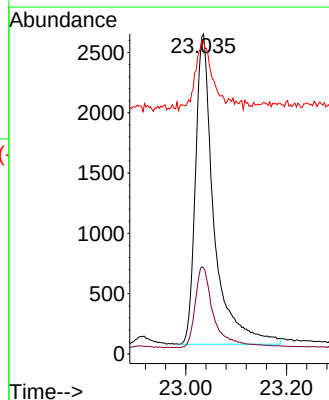
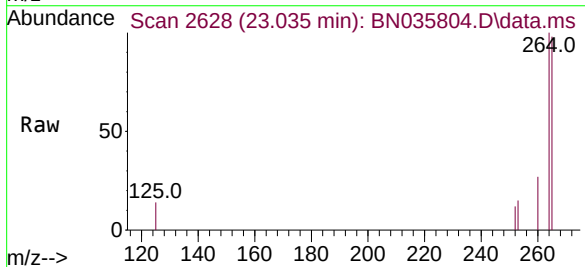
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 2628
Delta R.T. -0.006 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion:264 Resp: 6560
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 97.7 40.2 60.4





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

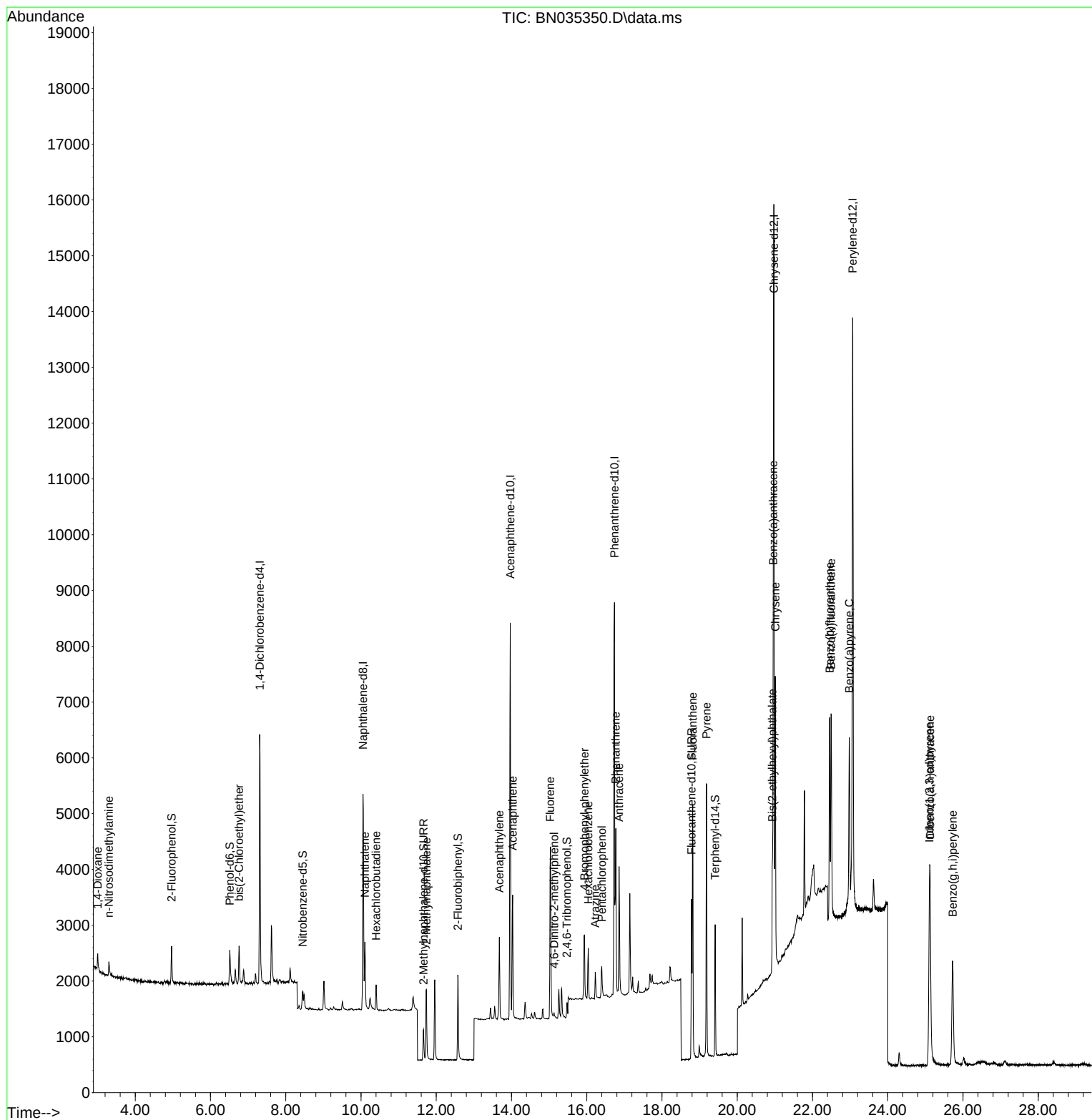
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035350.D
 Acq On : 27 Nov 2024 15:34
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

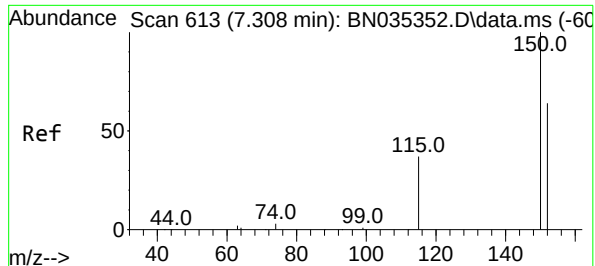
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations APPROVED

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

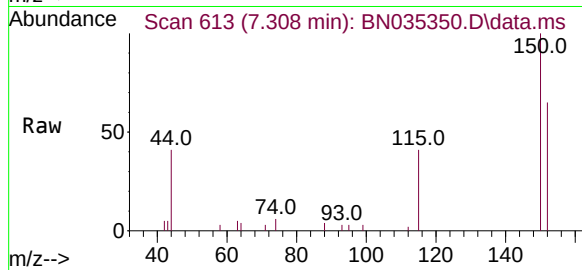
Quant Time: Nov 27 22:52:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

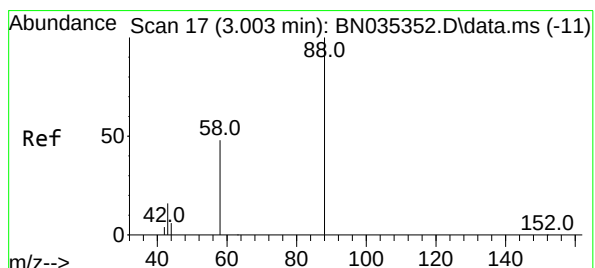
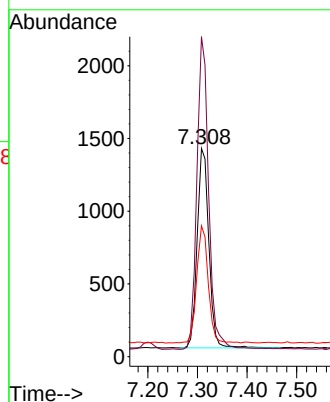
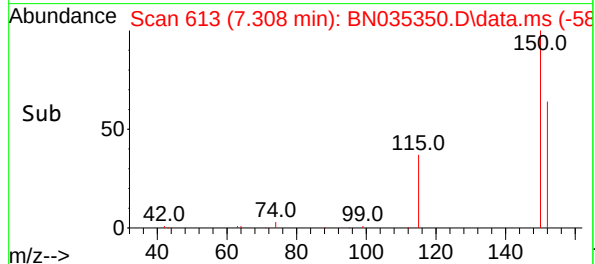
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

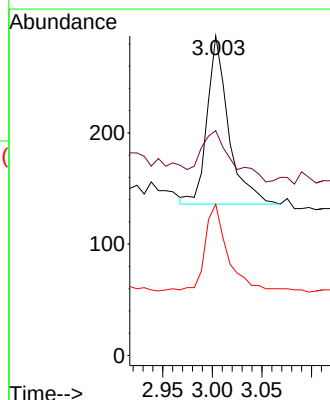
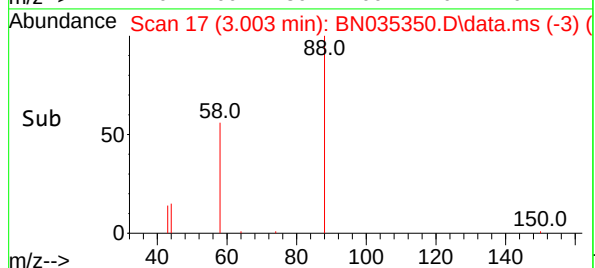
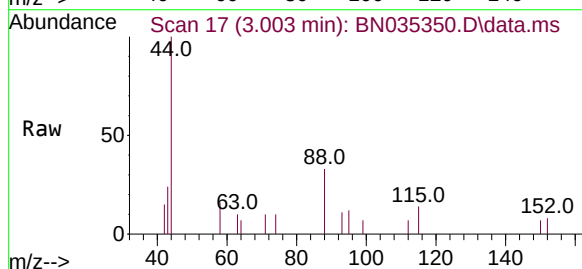
Manual Integrations
APPROVED

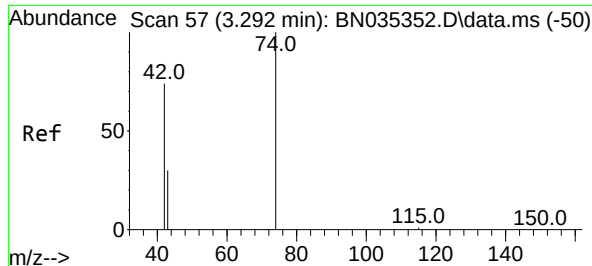
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

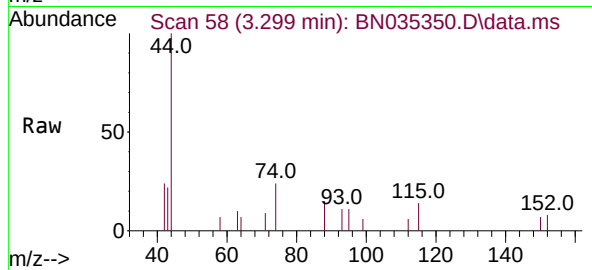
Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 41.4 17.2 25.8#
58 54.6 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

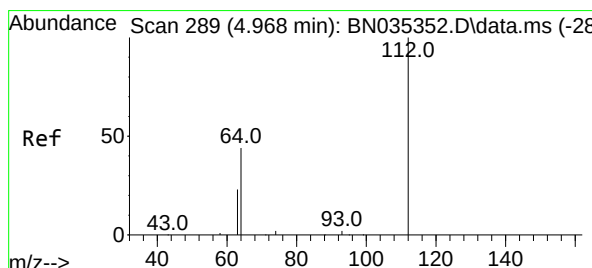
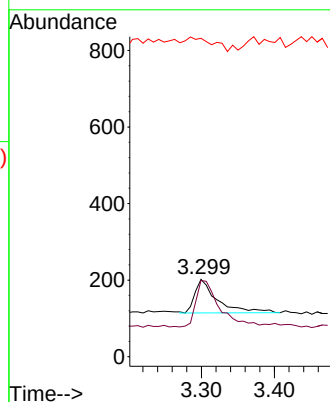
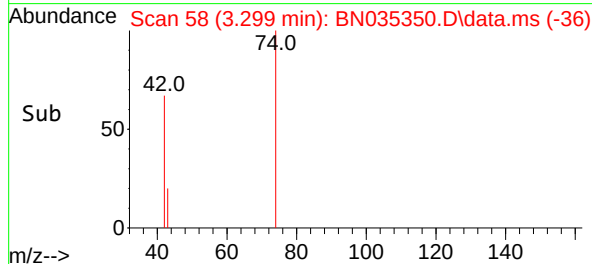
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

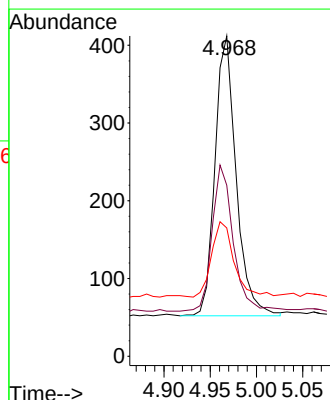
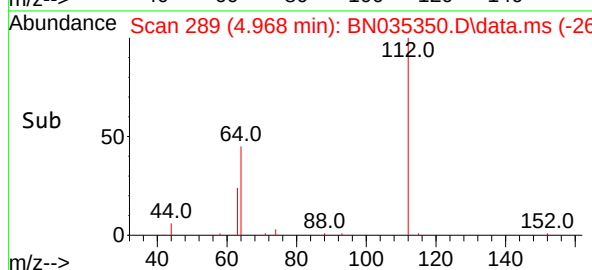
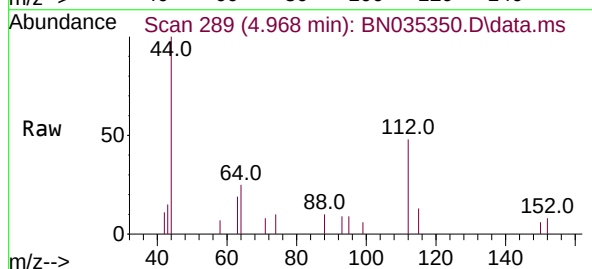
Manual Integrations
APPROVED

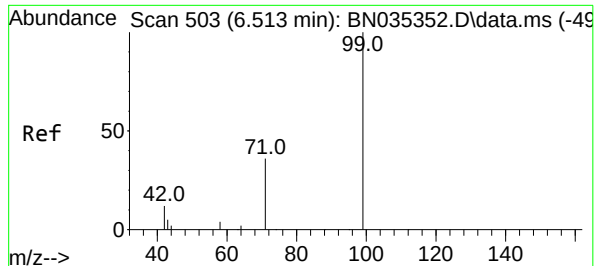
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

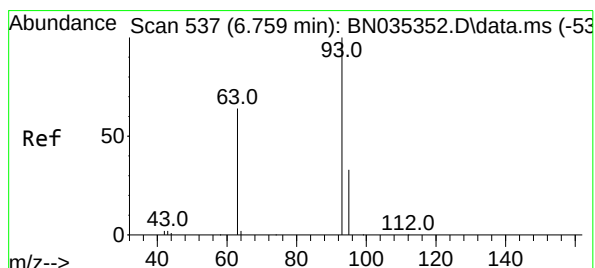
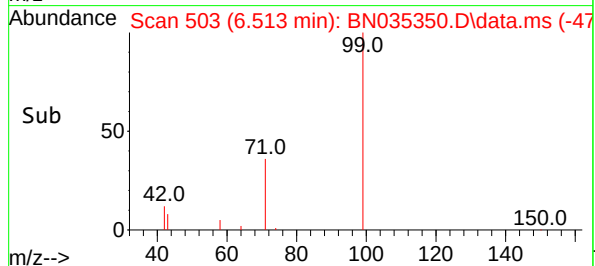
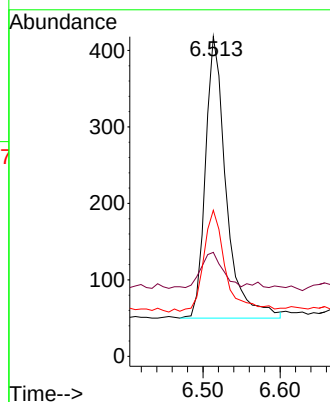
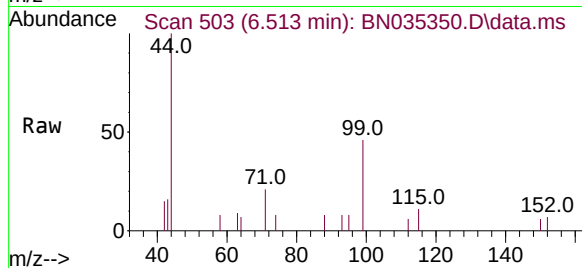
ClientSampleId :

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
APPROVED

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



#6

bis(2-Chloroethyl)ether

Concen: 0.108 ng

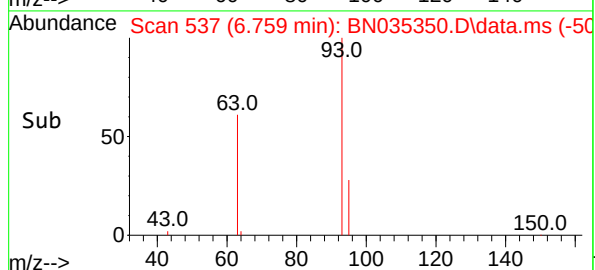
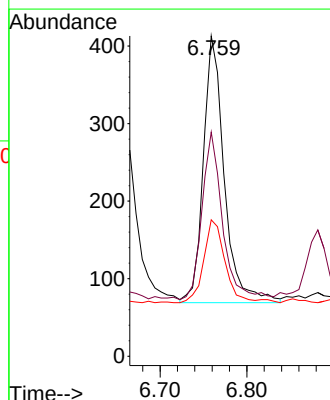
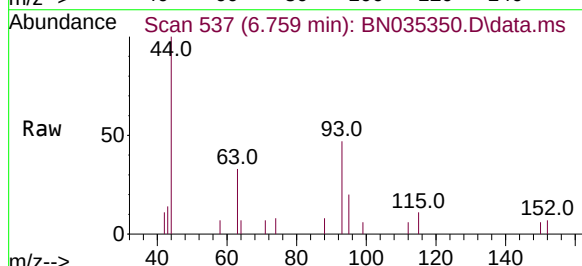
RT: 6.759 min Scan# 537

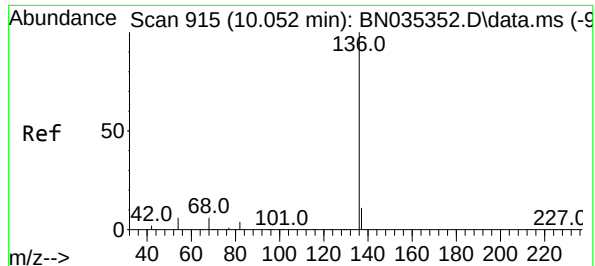
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

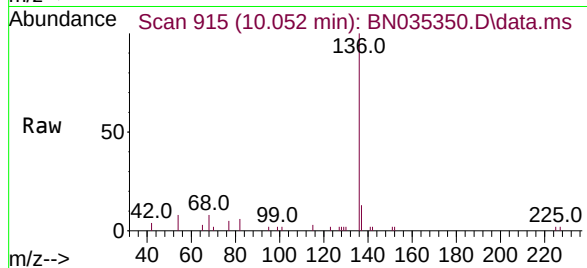
Tgt Ion:	93	Resp:	579
Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

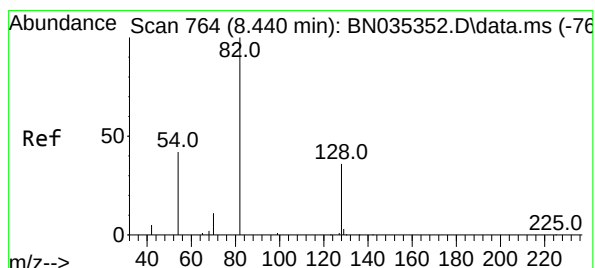
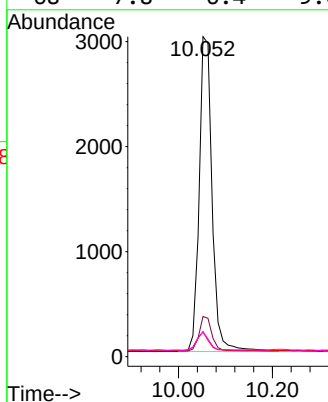
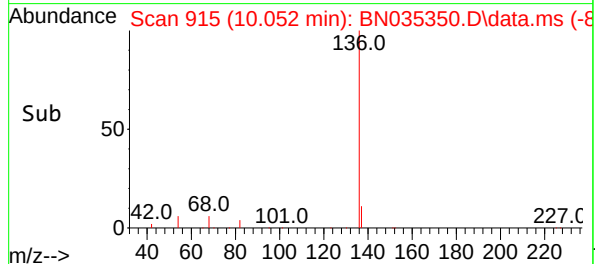
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

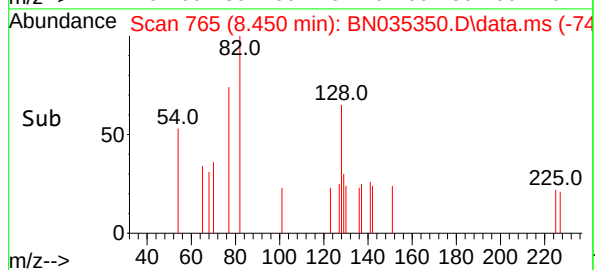
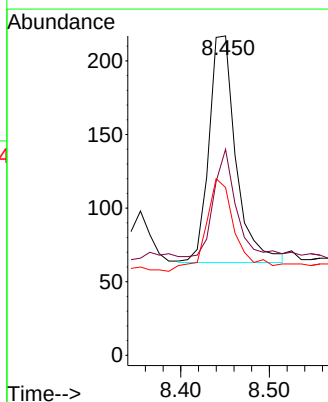
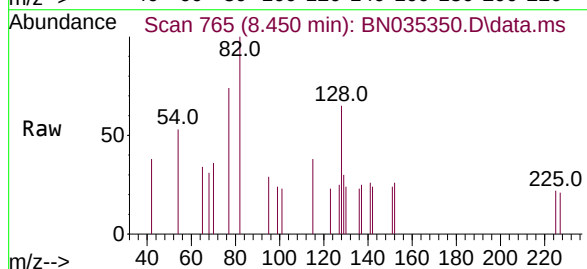
Manual Integrations
APPROVED

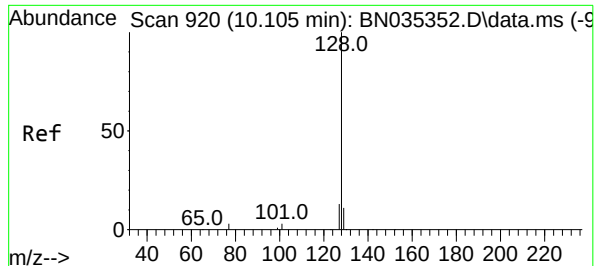
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





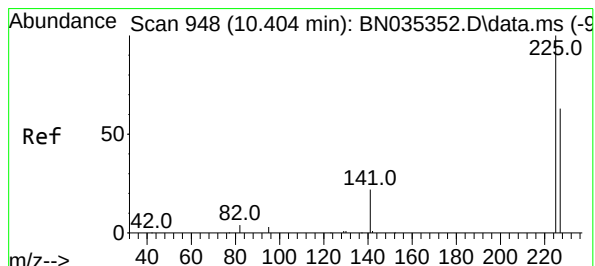
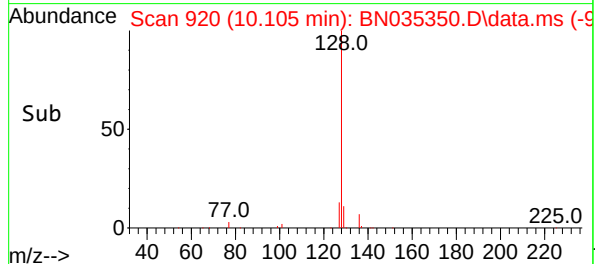
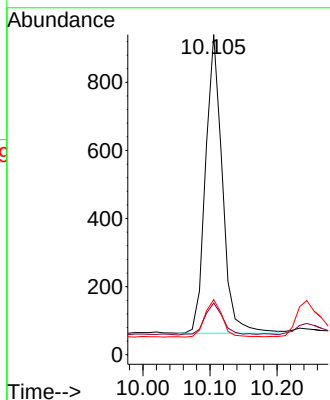
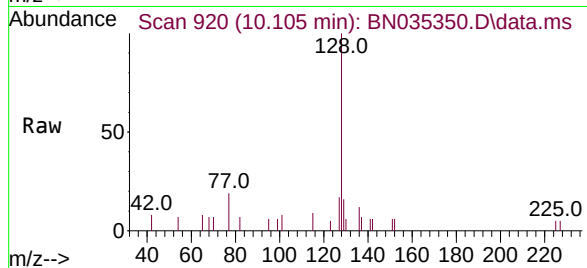
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

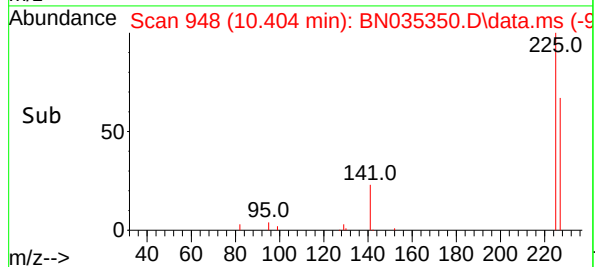
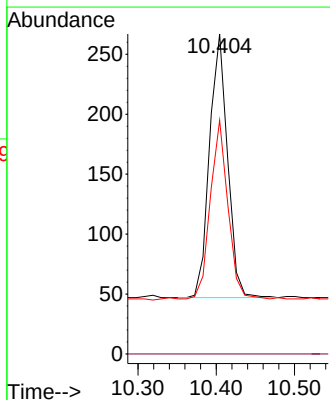
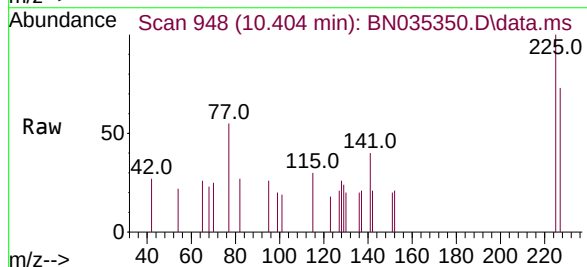
Manual Integrations
APPROVED

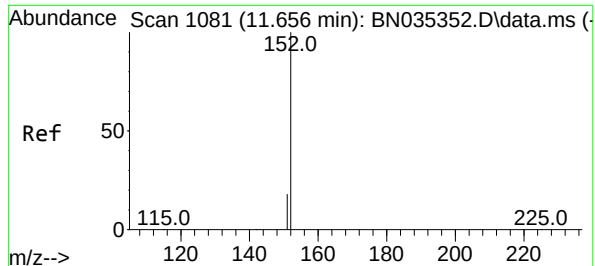
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

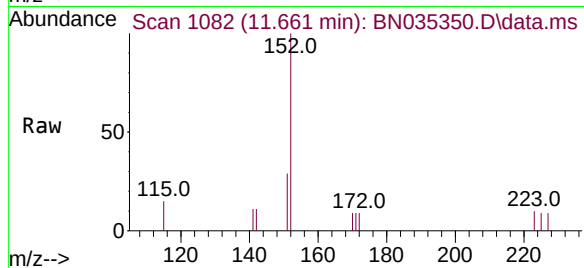
Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

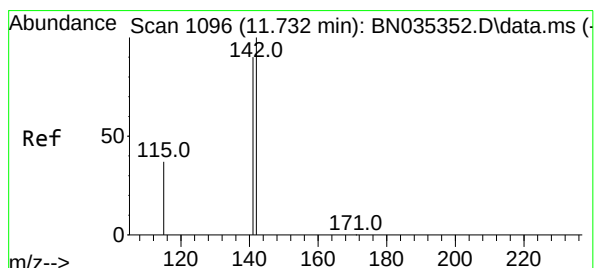
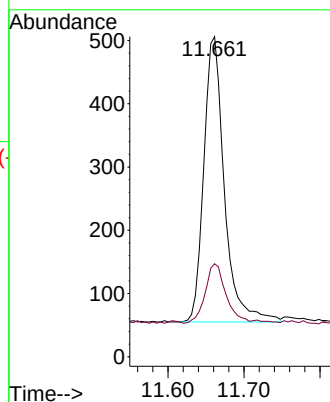
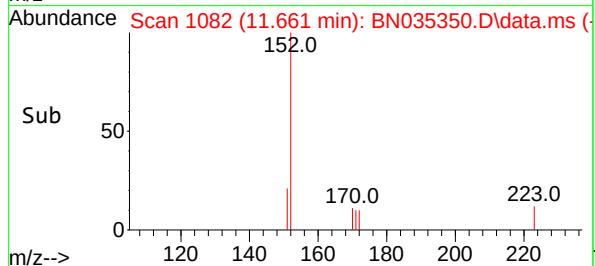
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

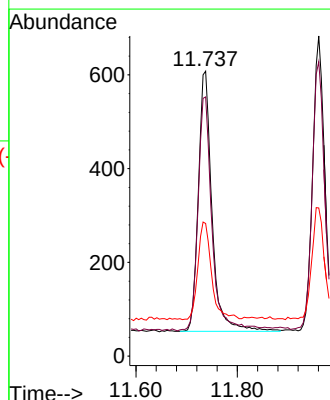
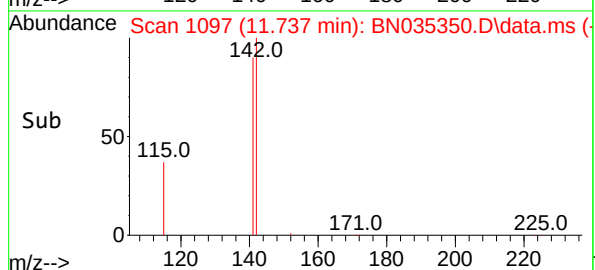
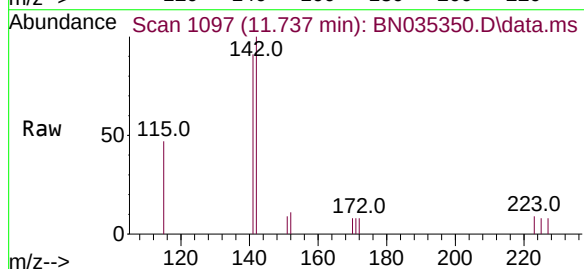
Manual Integrations
APPROVED

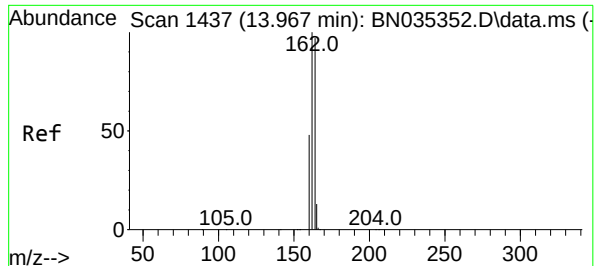
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

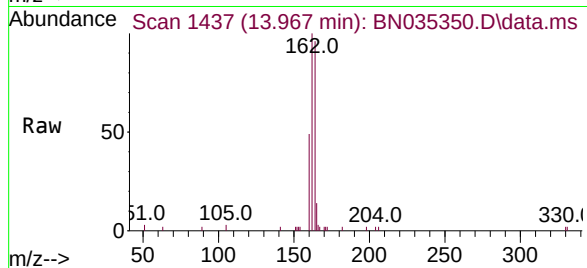
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

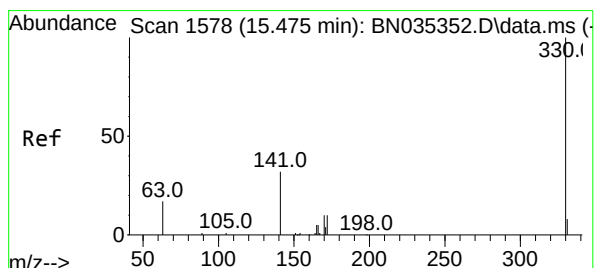
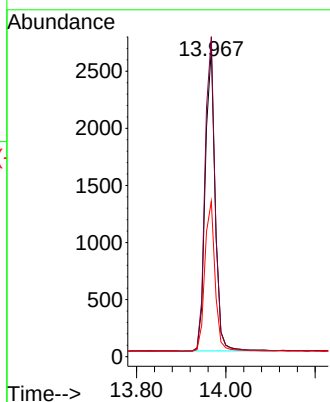
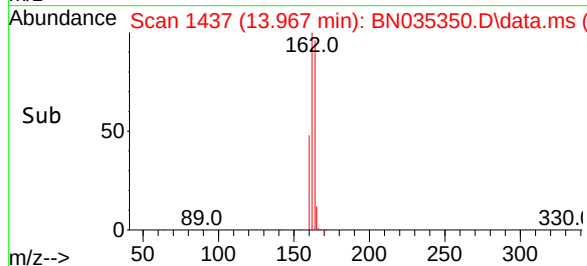
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



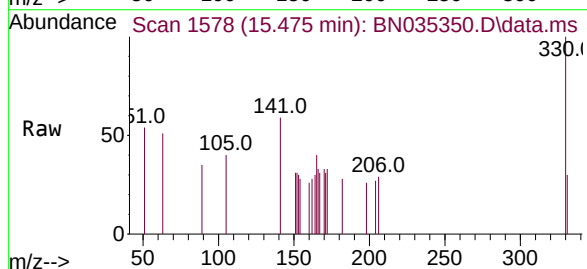
Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1

Manual Integrations
APPROVED

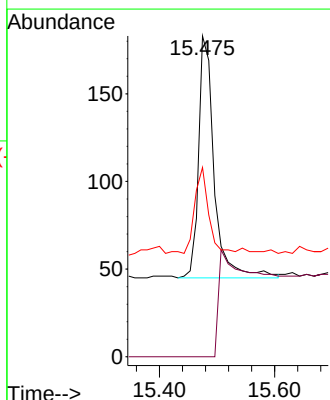
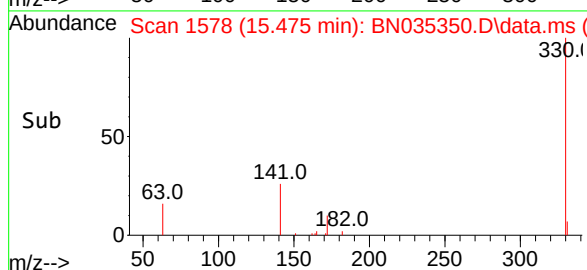
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

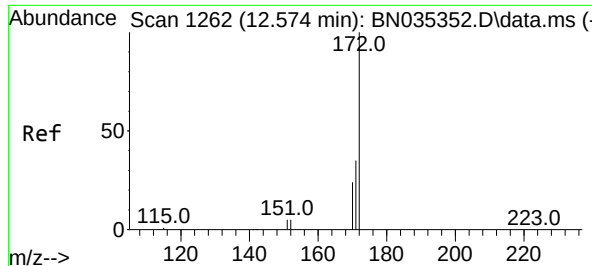


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



Tgt Ion:330 Resp: 278
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

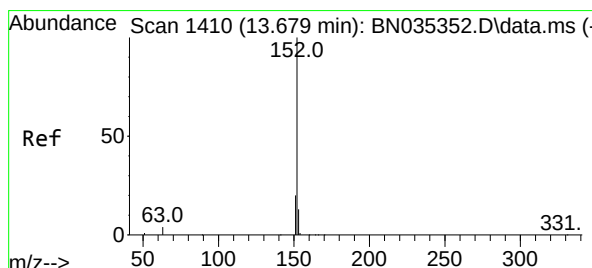
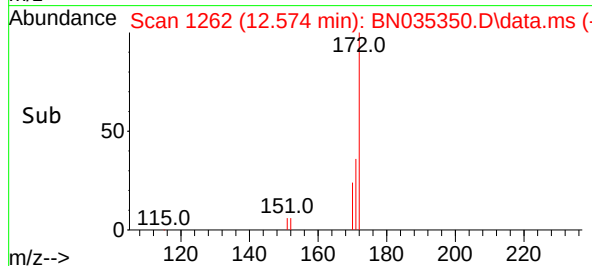
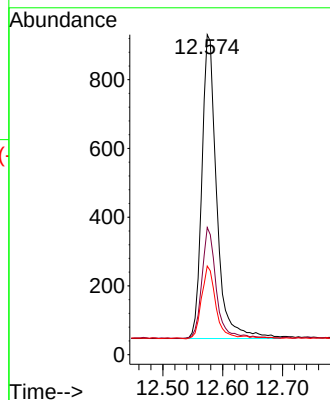
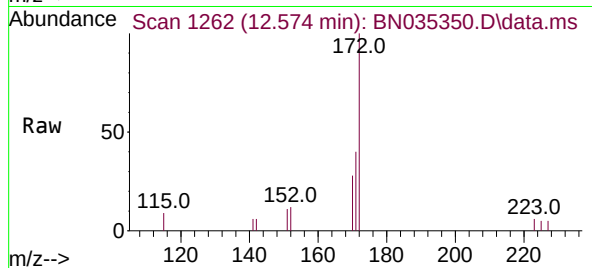
Tgt Ion:	172	Resp:	1518
Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.096 ng

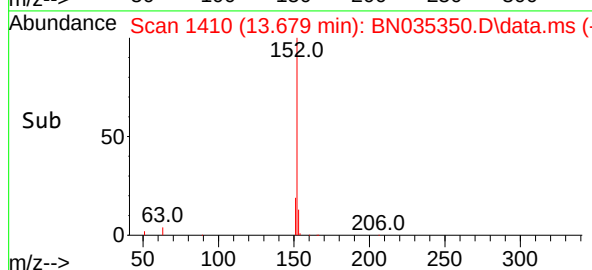
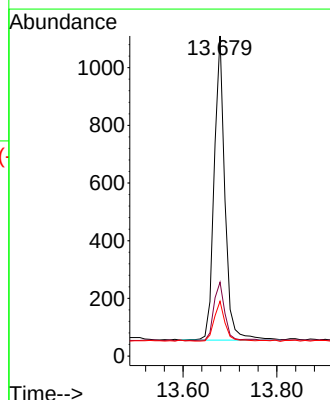
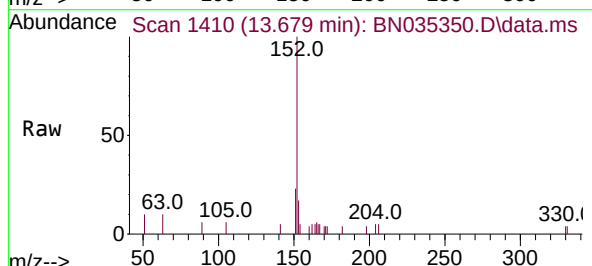
RT: 13.679 min Scan# 1410

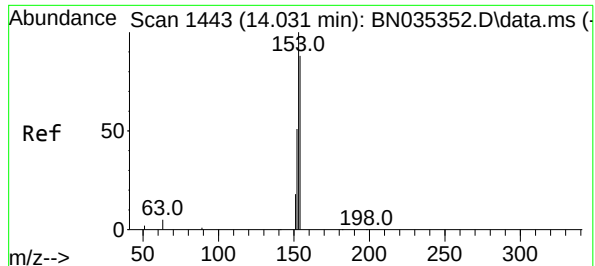
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion:	152	Resp:	1675
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6





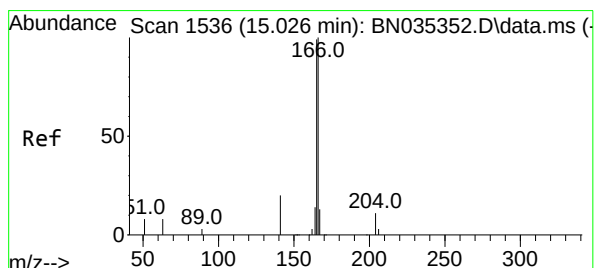
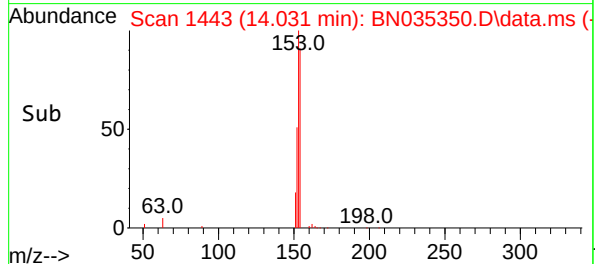
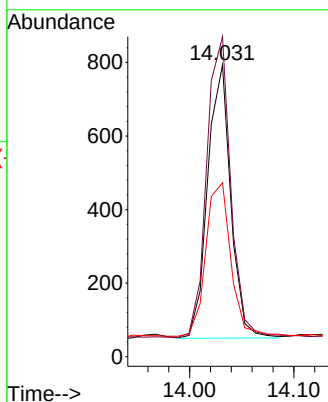
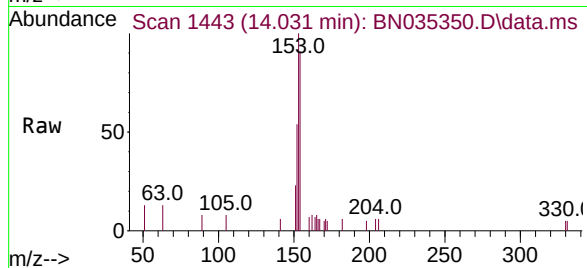
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

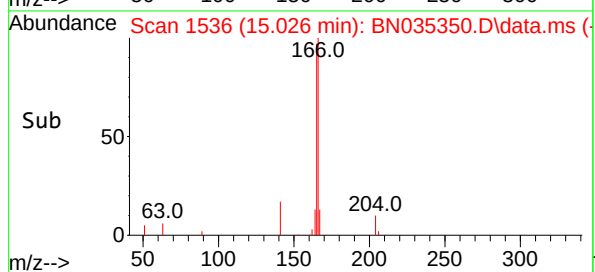
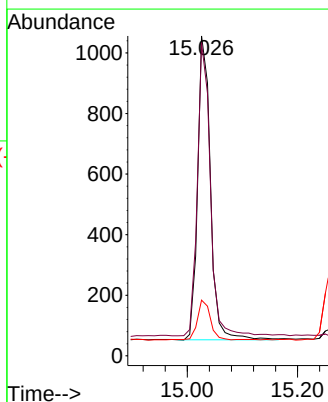
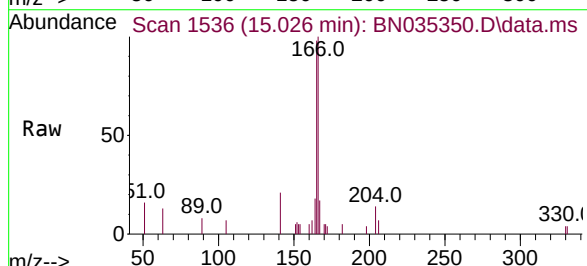
Manual Integrations
APPROVED

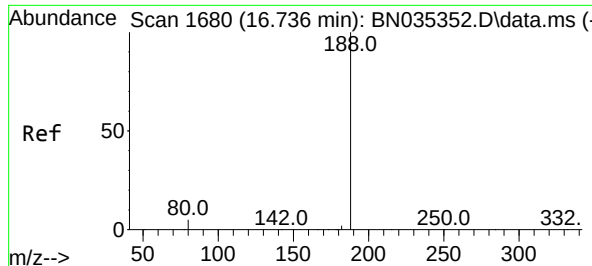
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:166 Resp: 1620
Ion Ratio Lower Upper
166 100
165 97.7 79.7 119.5
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:188 Resp: 1085

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

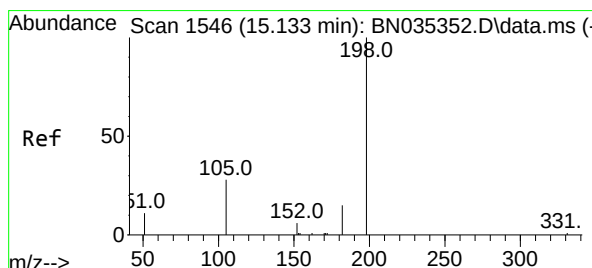
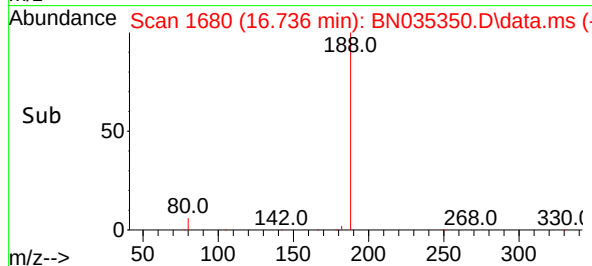
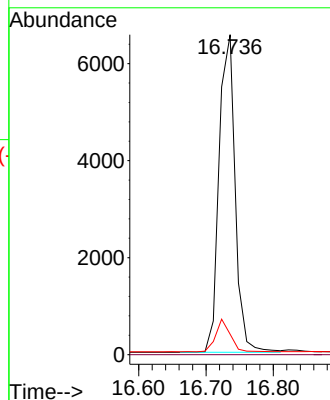
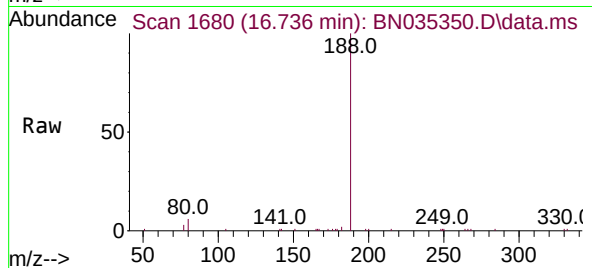
80 6.4 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

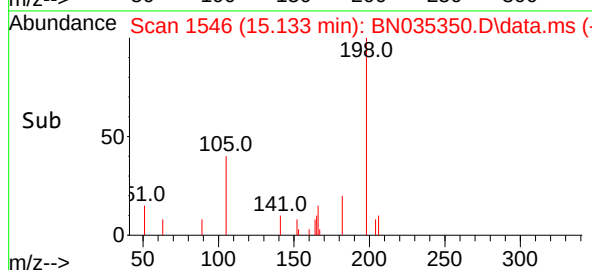
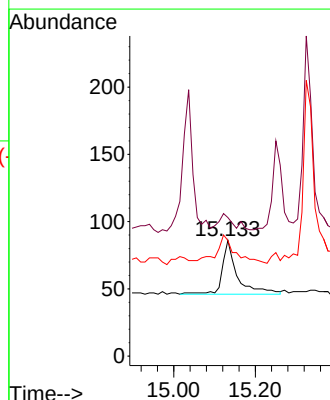
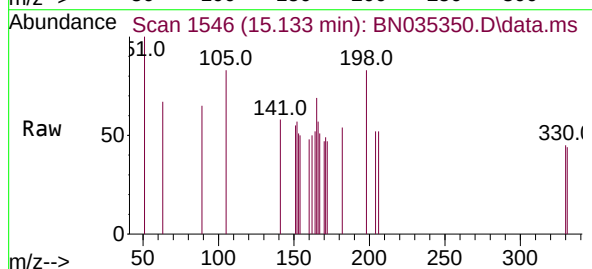
Tgt Ion:198 Resp: 103

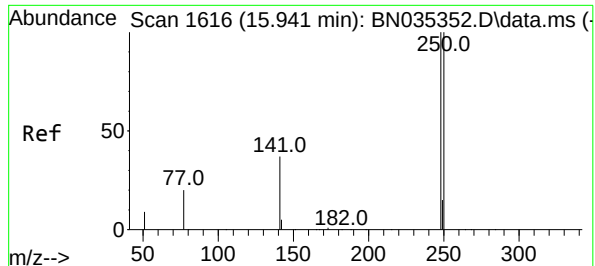
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#





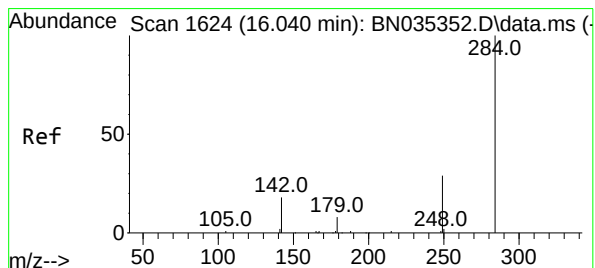
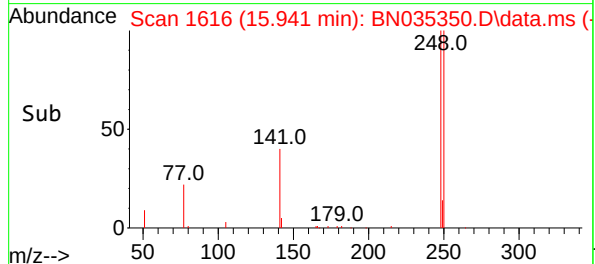
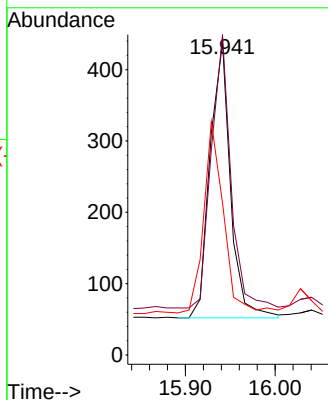
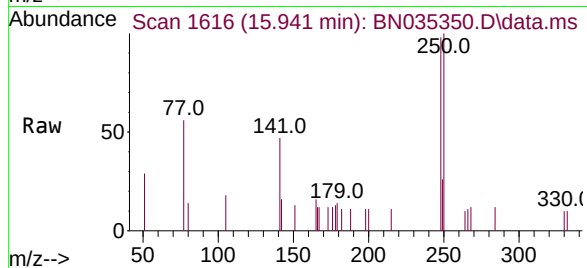
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

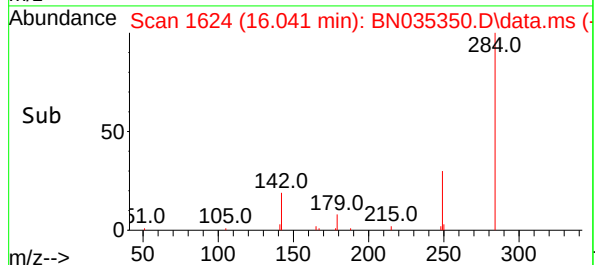
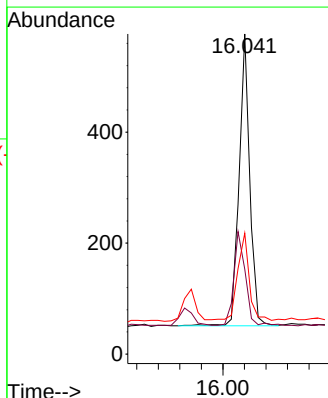
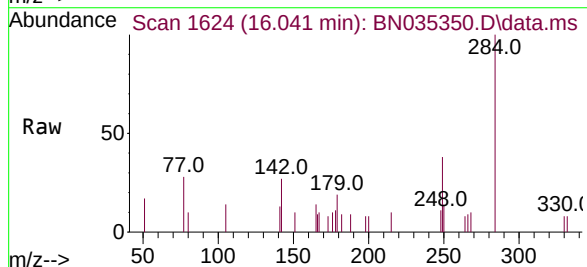
Manual Integrations
APPROVED

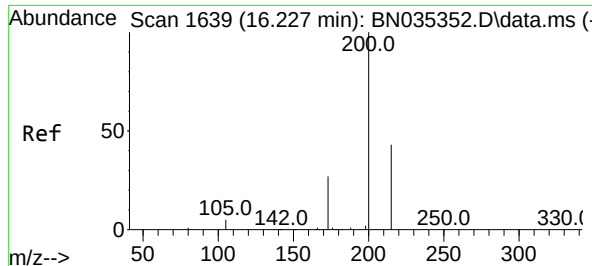
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

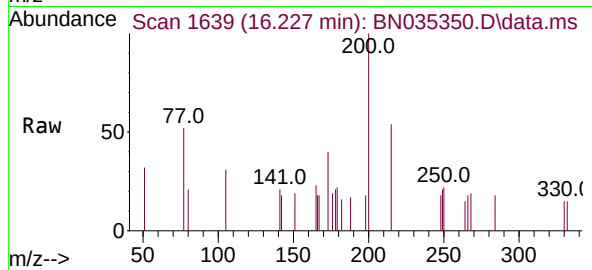
Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 32.2 24.6 36.8





#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

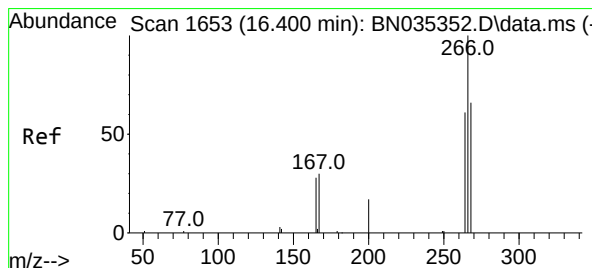
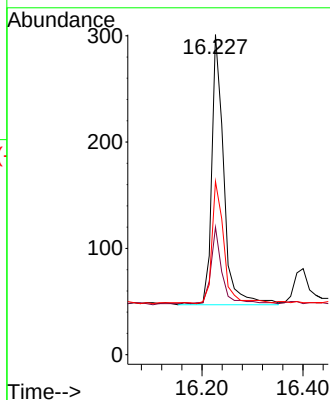
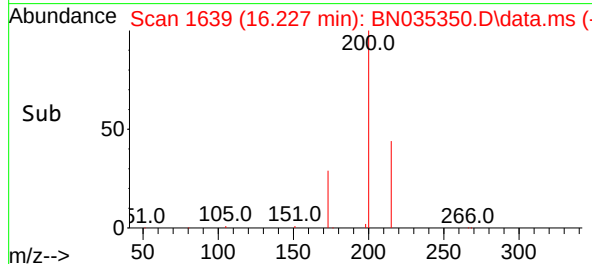
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

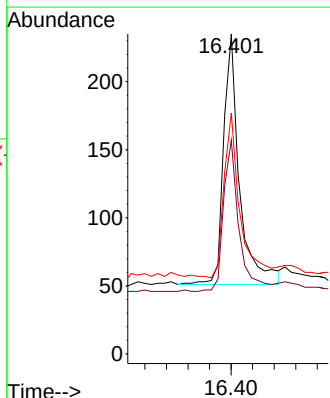
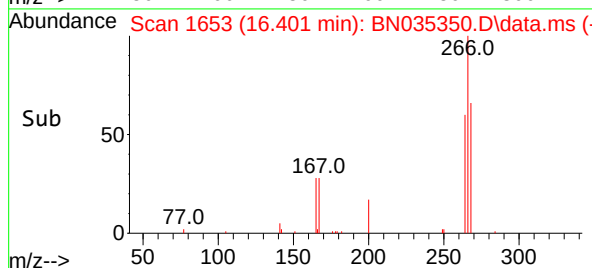
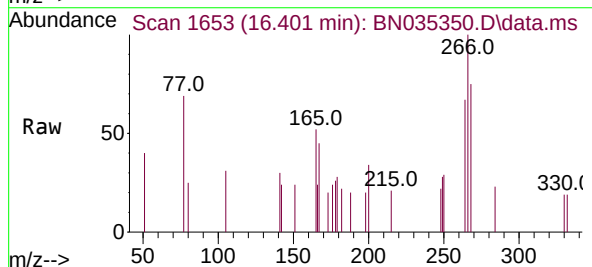
Manual Integrations
APPROVED

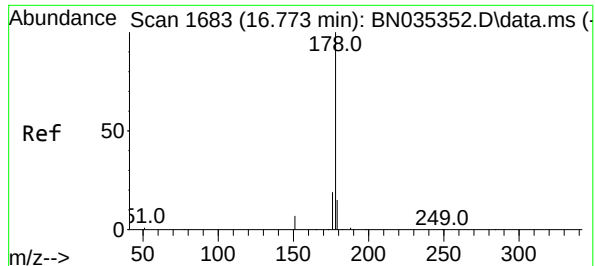
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:266 Resp: 381
Ion Ratio Lower Upper
266 100
264 58.3 42.3 63.5
268 63.3 43.3 64.9





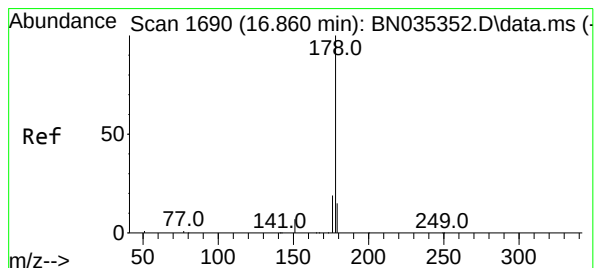
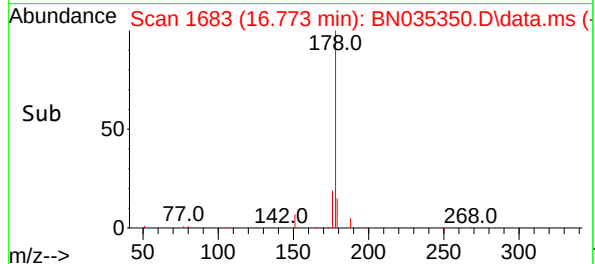
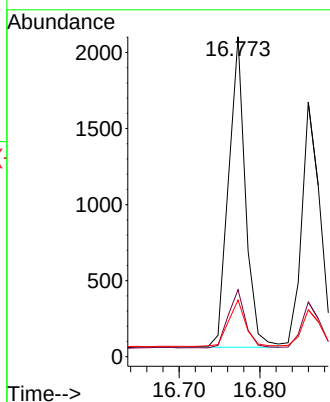
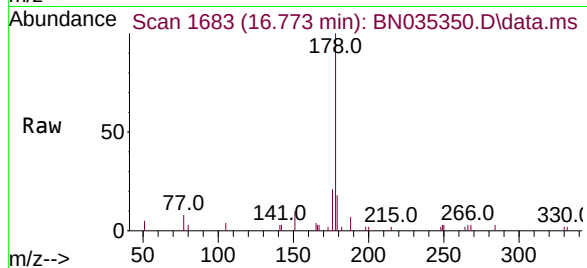
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

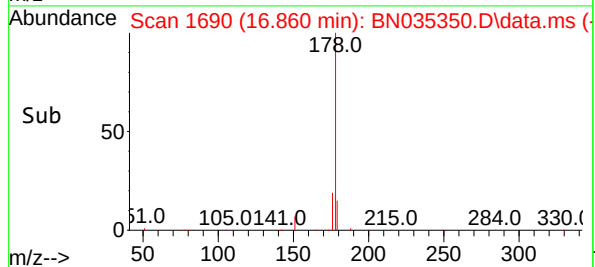
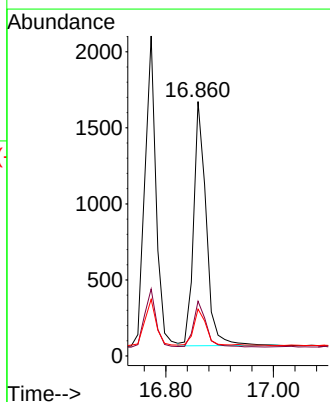
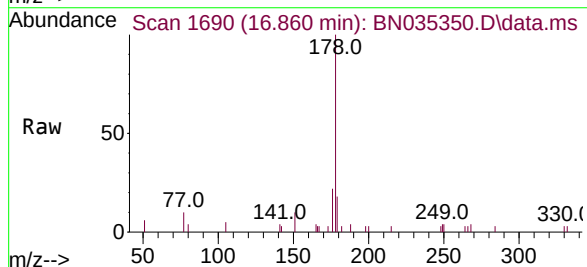
Manual Integrations
APPROVED

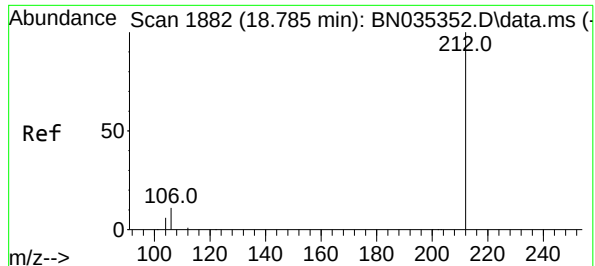
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

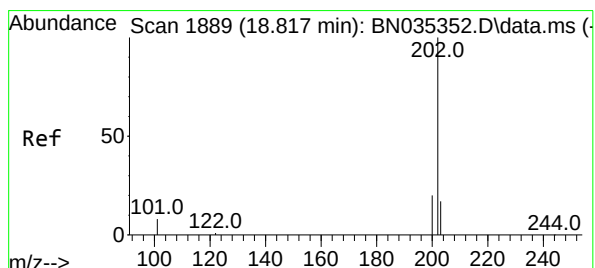
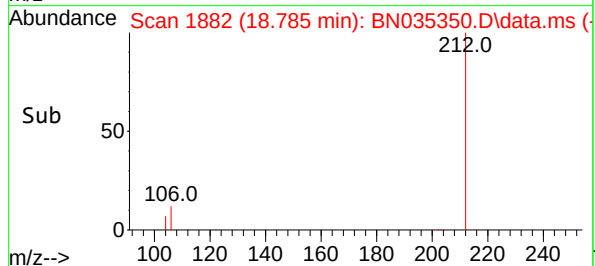
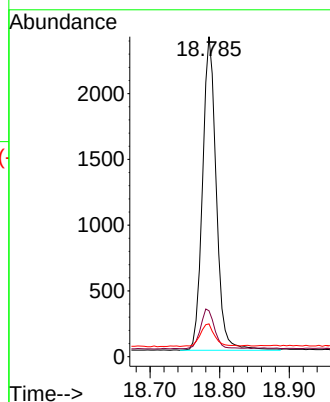
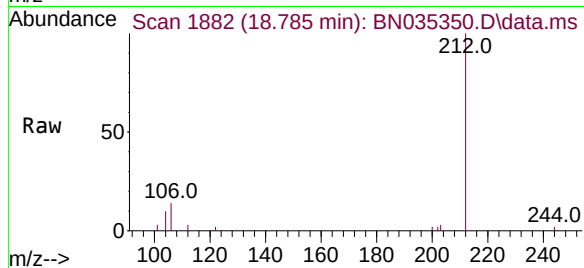
Tgt Ion:	212	Resp:	326
Ion Ratio	Lower	Upper	
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.106 ng

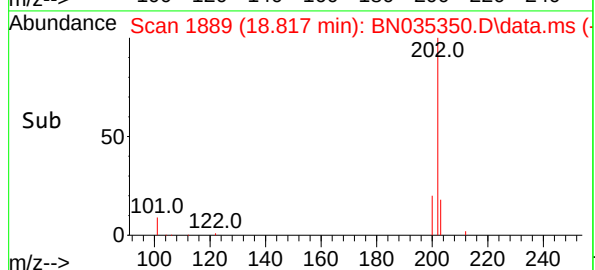
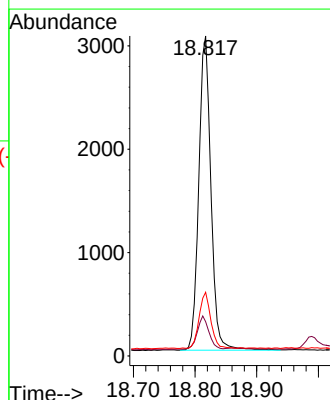
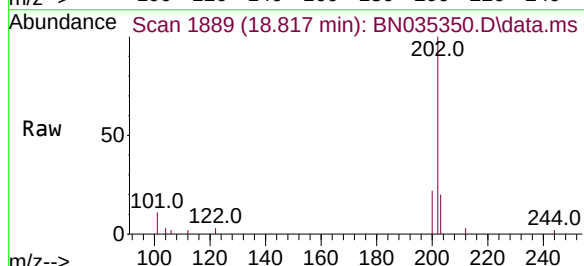
RT: 18.817 min Scan# 1889

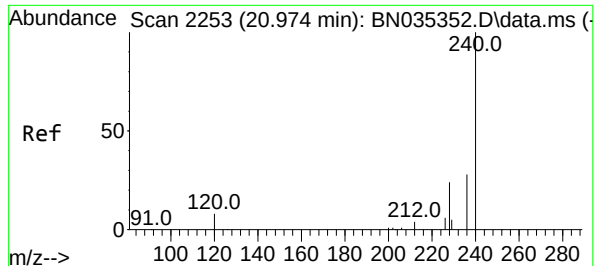
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion:	202	Resp:	4173
Ion Ratio	Lower	Upper	
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

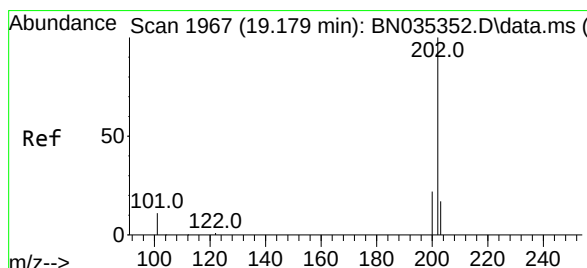
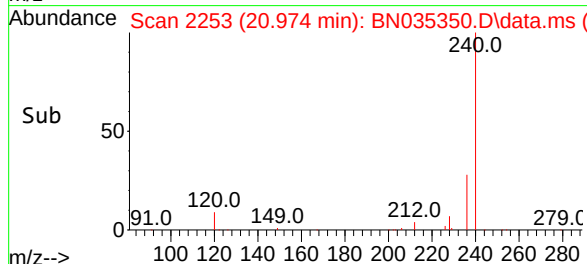
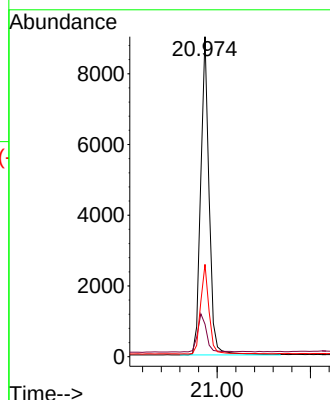
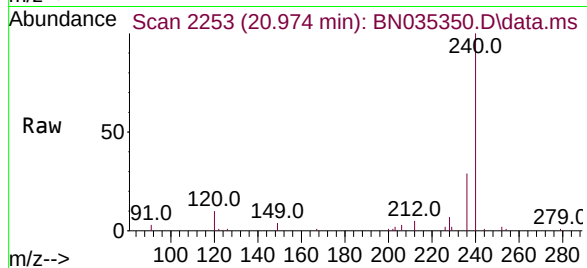
SSTDICC0.1

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

APPROVED

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



#30

Pyrene

Concen: 0.119 ng

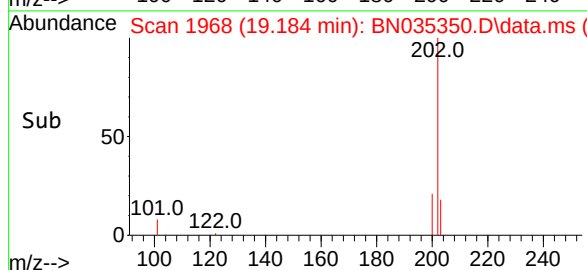
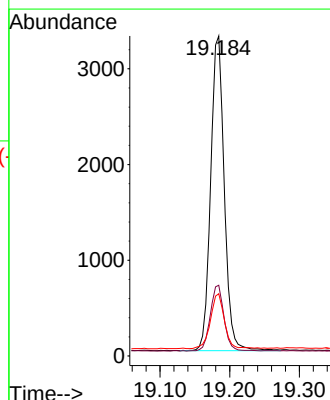
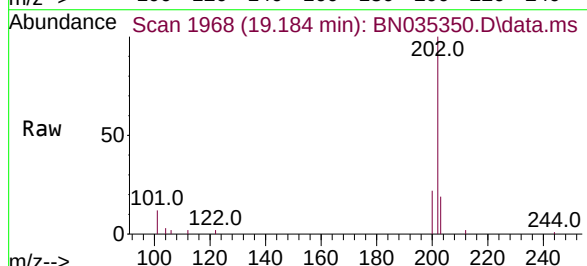
RT: 19.184 min Scan# 1968

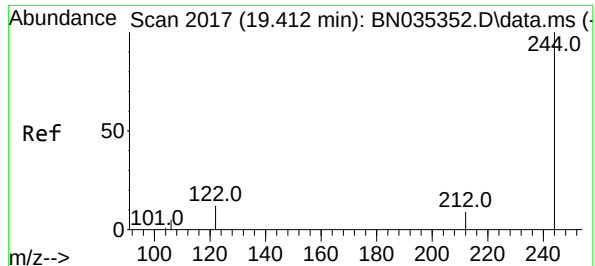
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

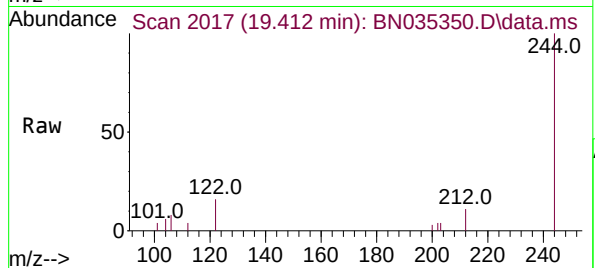
Tgt Ion:202	Resp:	4461
Ion Ratio	Lower	Upper
202	100	
200	21.1	17.0 25.4
203	18.0	14.3 21.5





#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

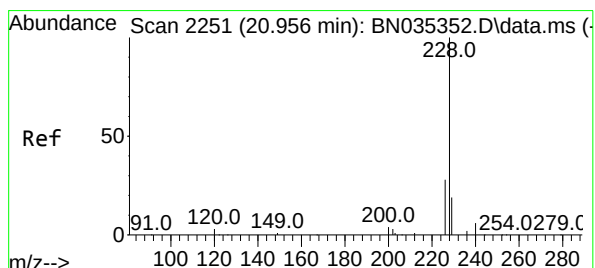
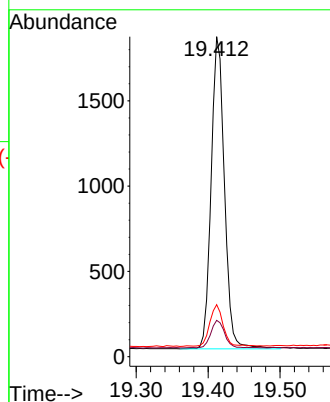
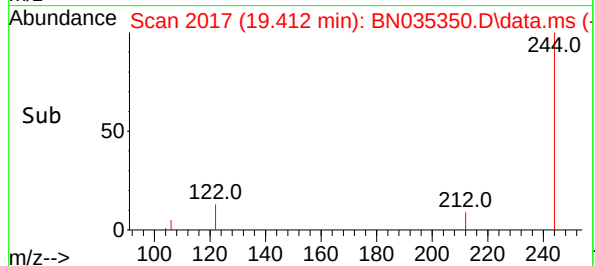
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

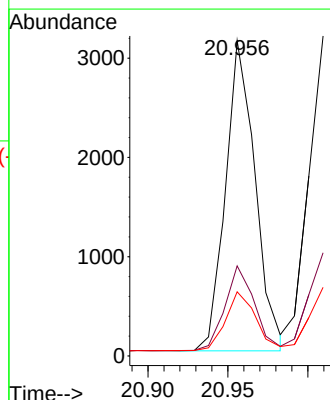
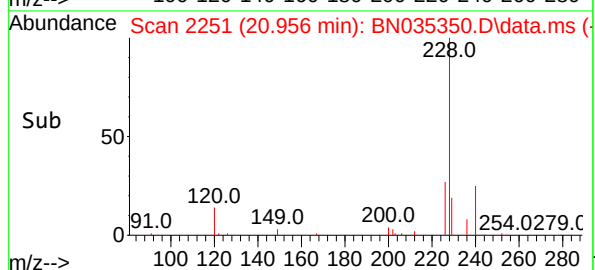
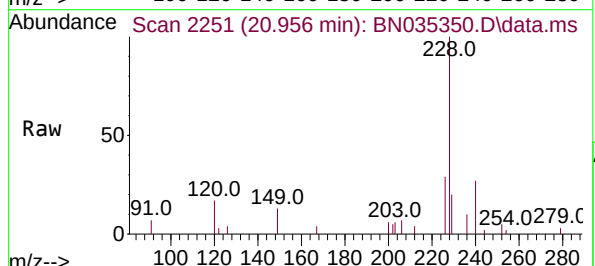
Manual Integrations
APPROVED

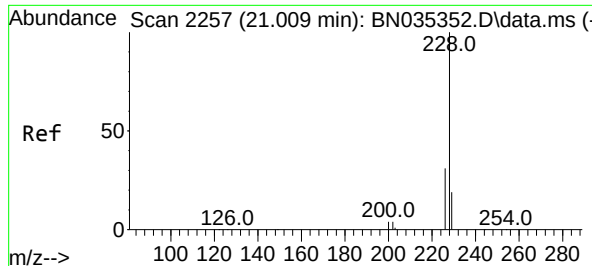
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

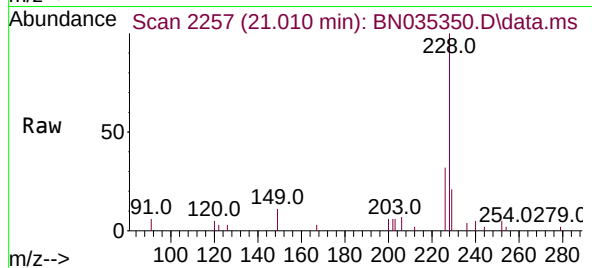
Tgt Ion:228 Resp: 4031
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 20.4 15.8 23.8





#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

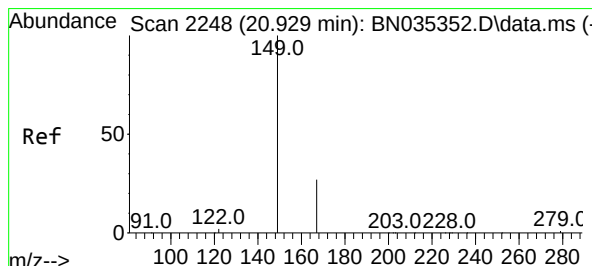
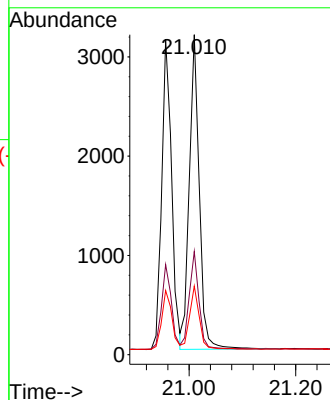
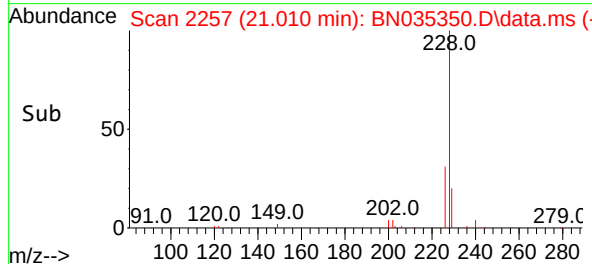
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 412
Ion Ratio Lower Upper
228 100
226 32.3 24.6 37.0
229 21.5 15.9 23.9

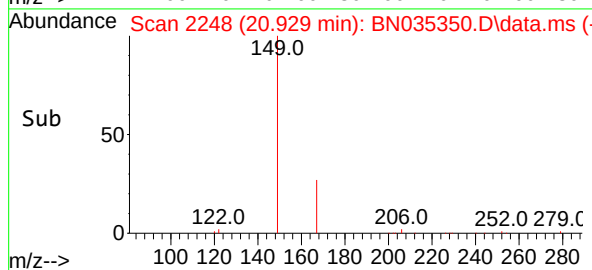
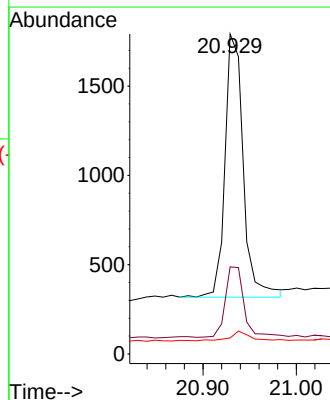
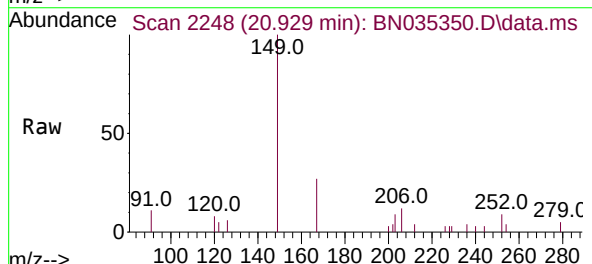
Manual Integrations
APPROVED

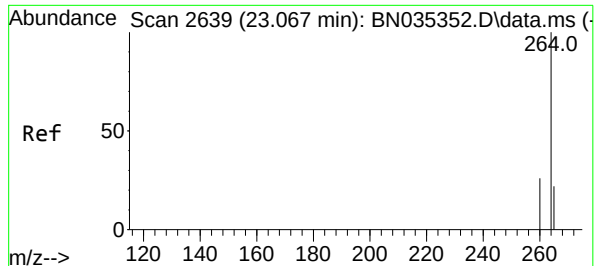
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

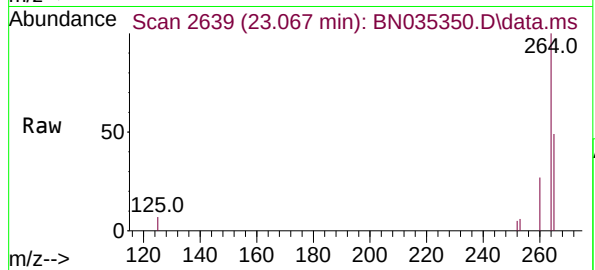
Tgt Ion:149 Resp: 1999
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.6 2.7 4.1





#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

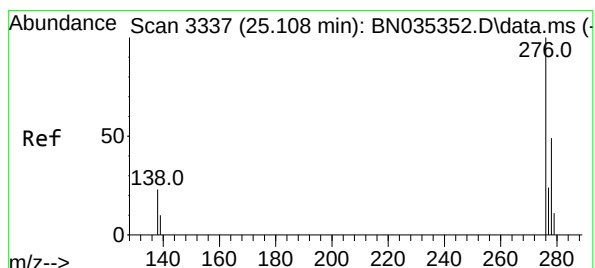
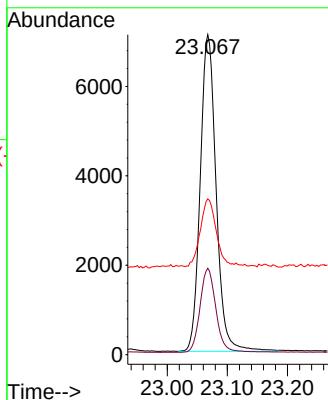
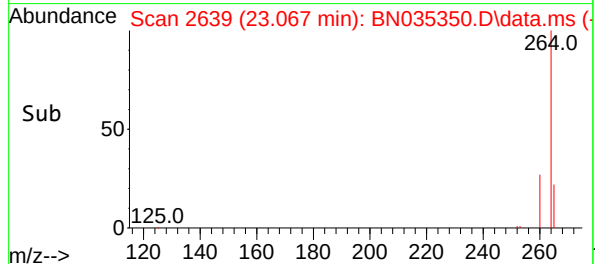
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

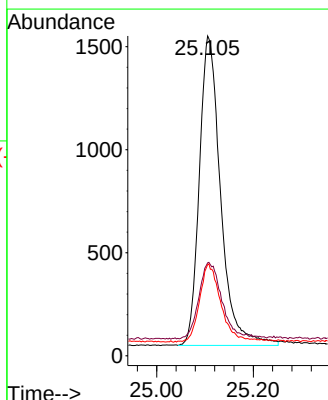
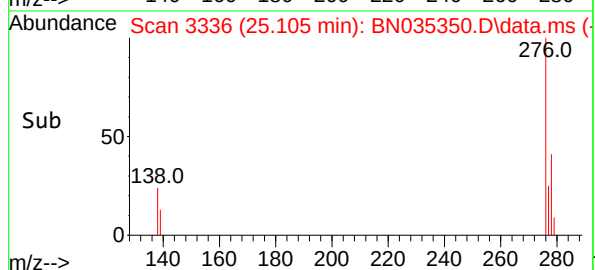
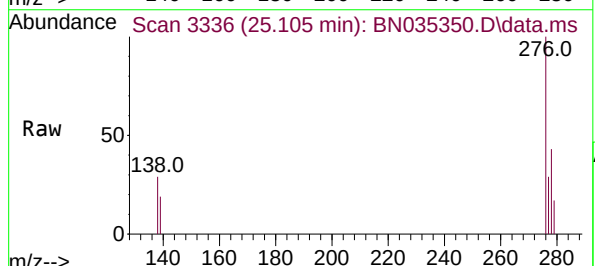
Manual Integrations
APPROVED

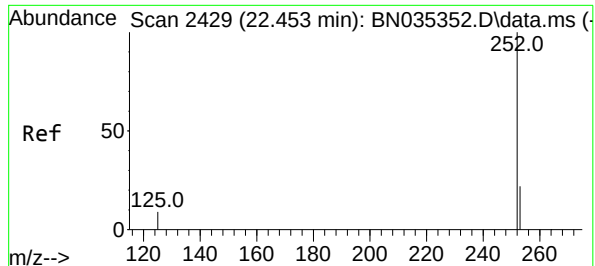
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586
Ion Ratio Lower Upper
276 100
138 26.2 19.4 29.0
277 25.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

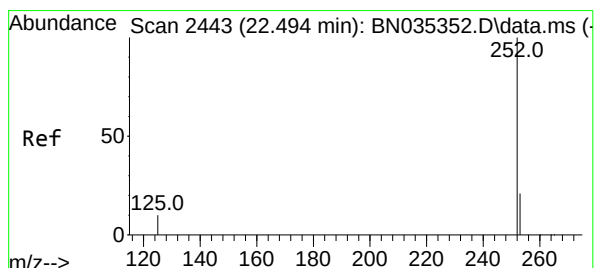
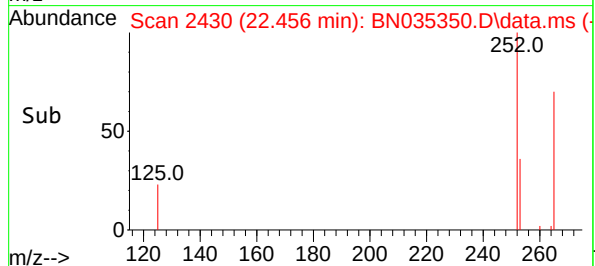
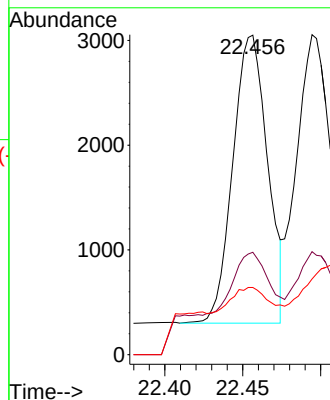
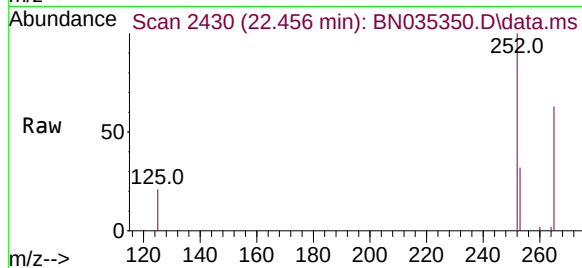
SSTDICC0.1

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

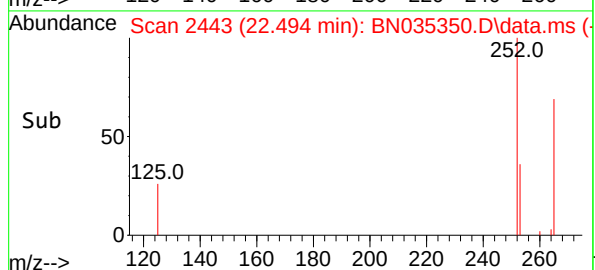
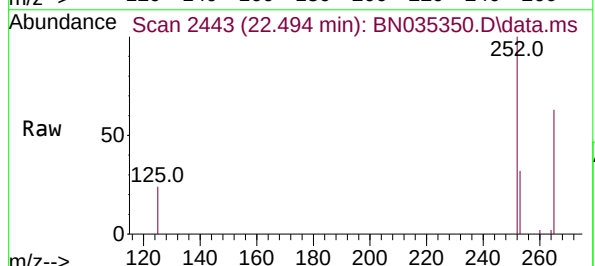
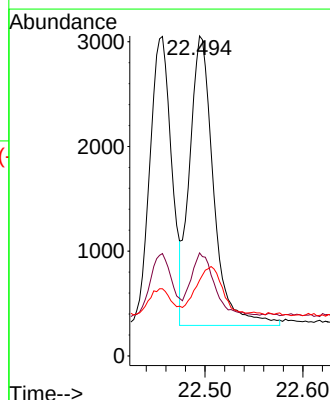
RT: 22.494 min Scan# 2443

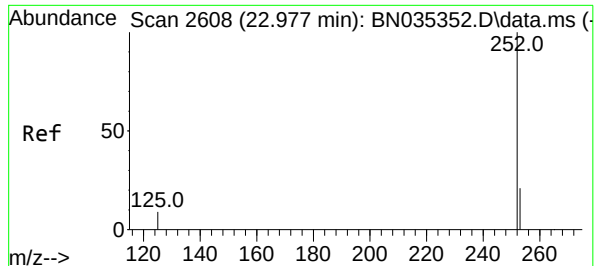
Delta R.T. 0.000 min

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

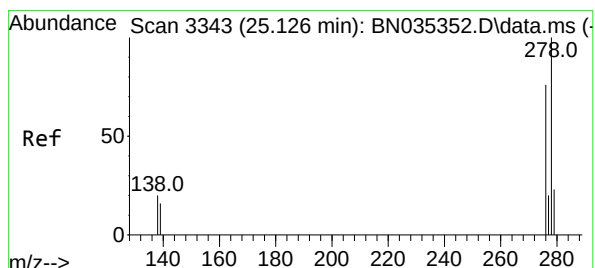
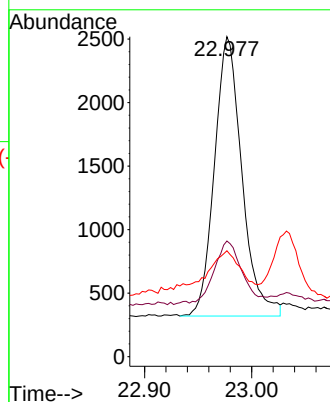
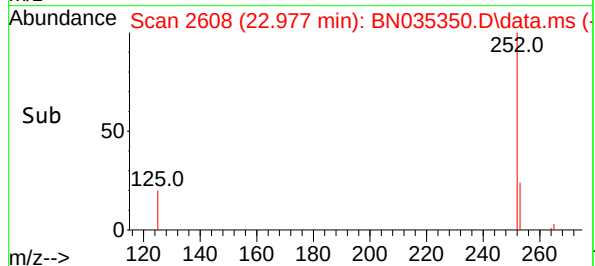
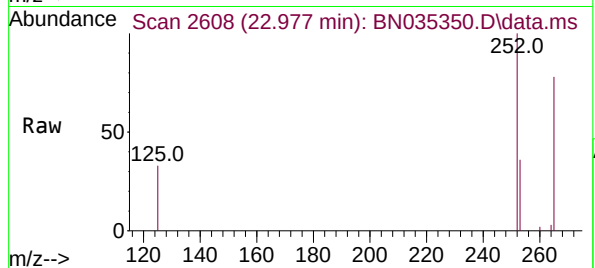
Tgt Ion:	252	Resp:	391
Ion Ratio	Lower	Upper	
252	100		
253	36.1	20.2	30.4
125	33.1	10.9	16.3

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

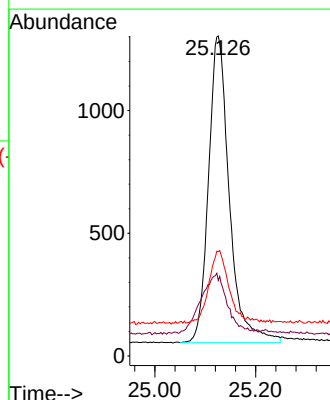
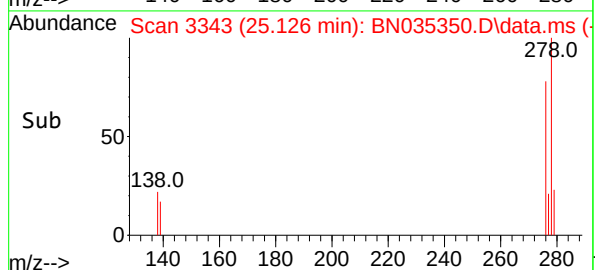
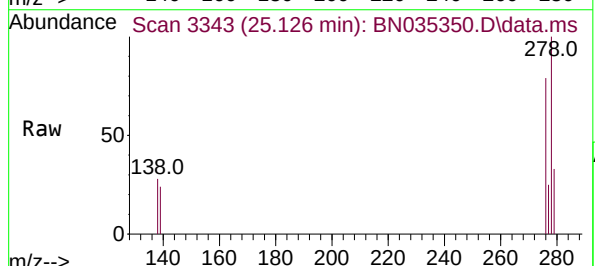
RT: 25.126 min Scan# 3343

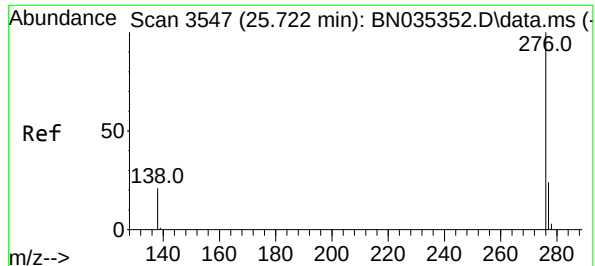
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

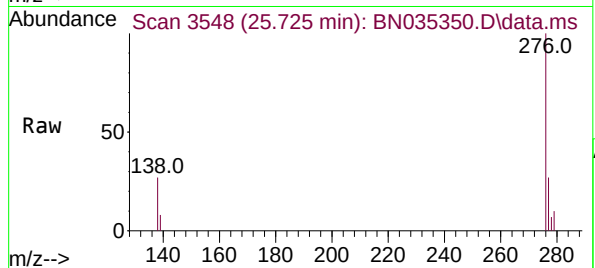
Tgt Ion:	278	Resp:	3588
Ion Ratio	Lower	Upper	
278	100		
139	23.6	14.2	21.4
279	32.6	20.5	30.7





#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3547
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

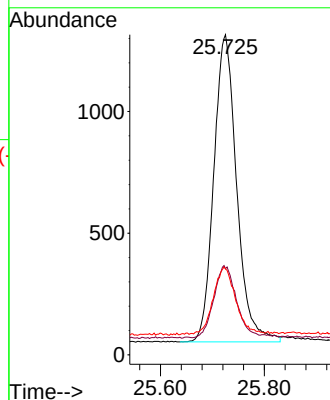
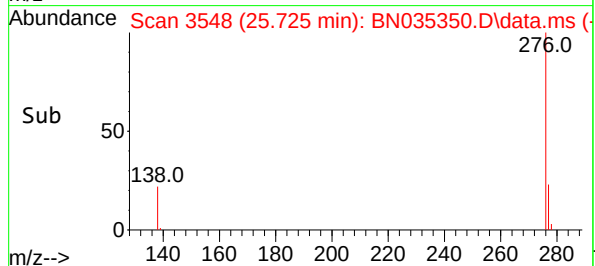
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

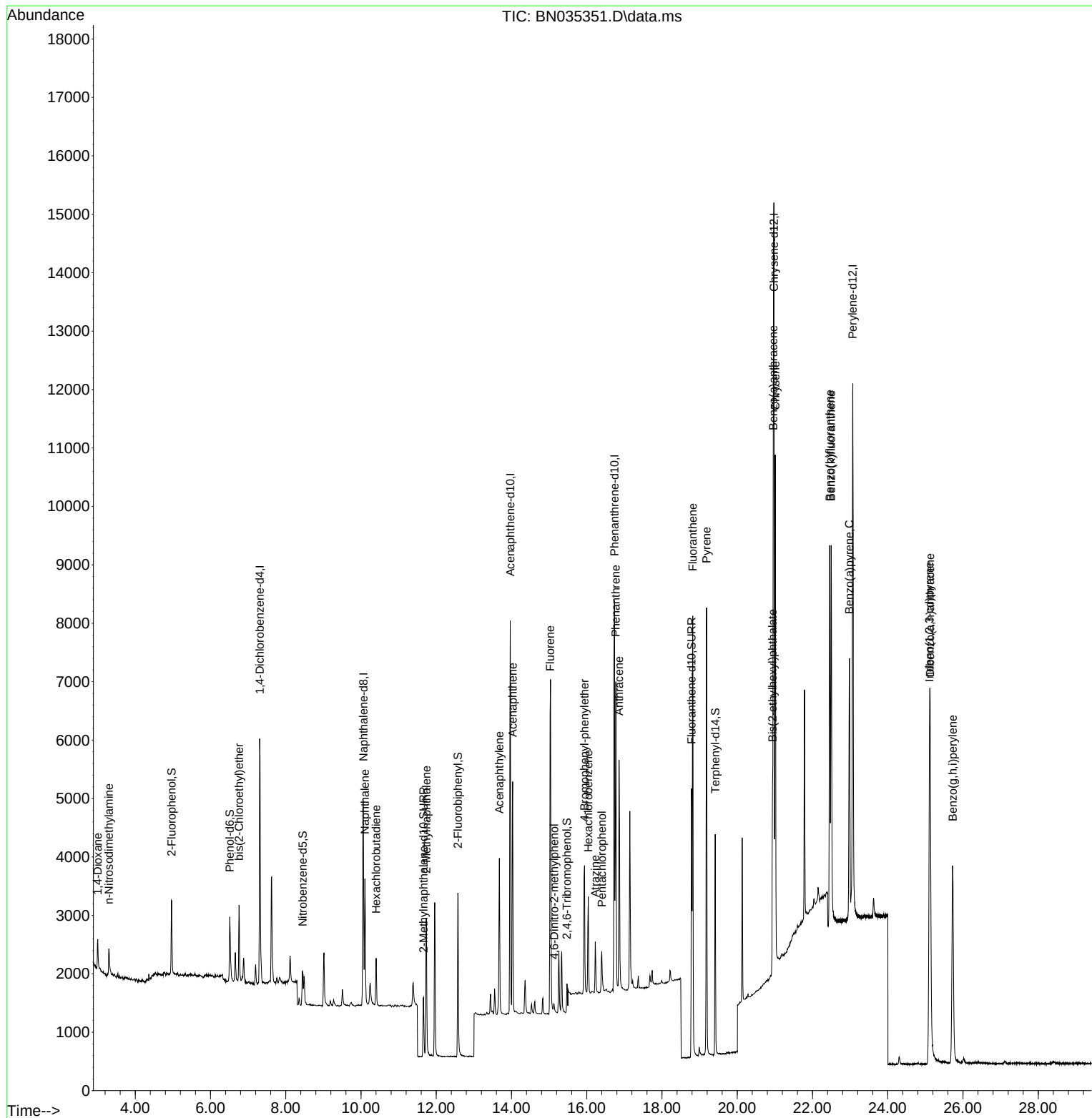
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

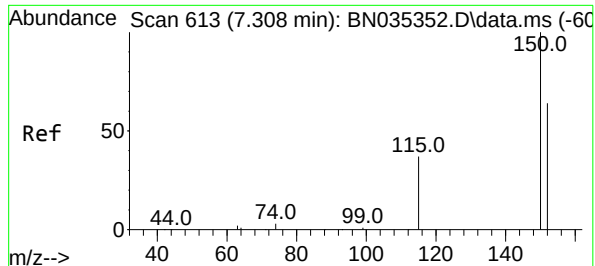
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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
APPROVED

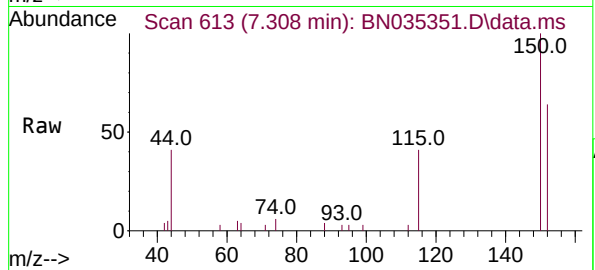
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

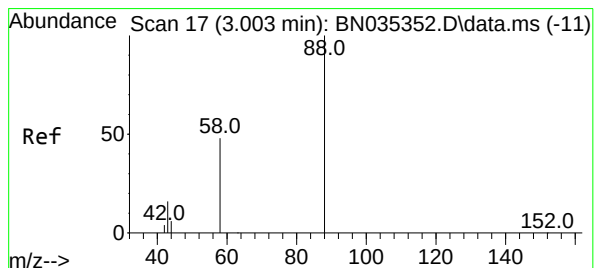
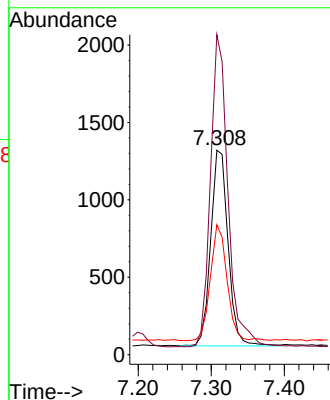
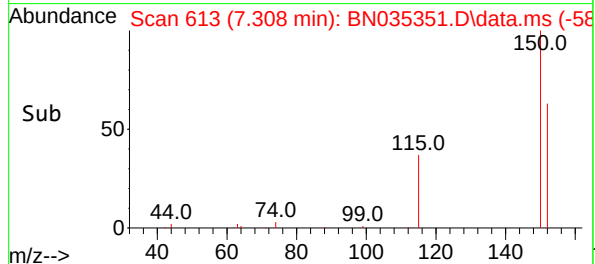
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

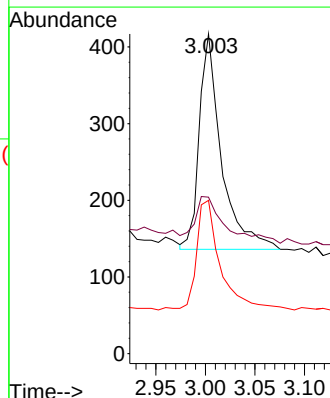
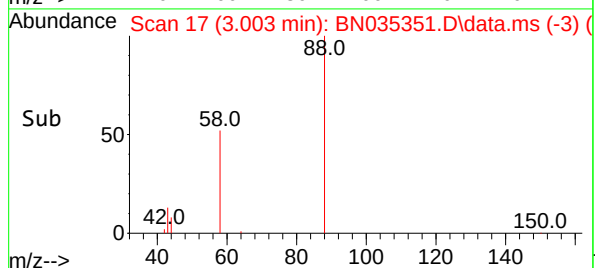
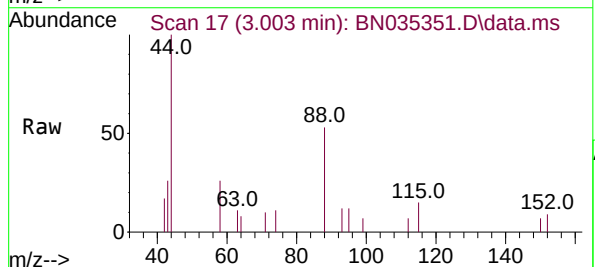
Manual Integrations
APPROVED

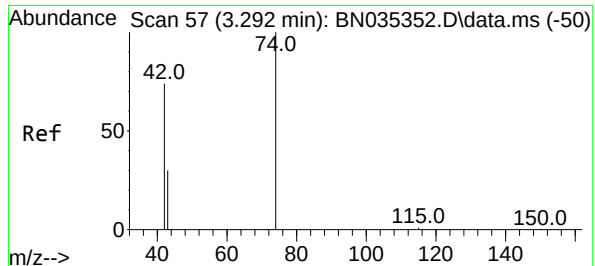
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

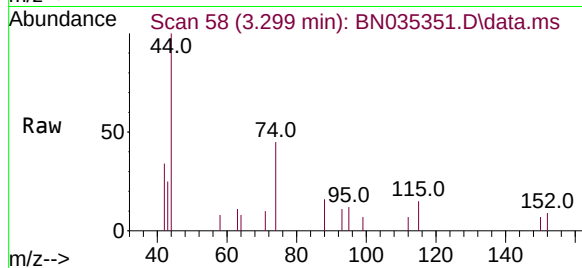
Tgt Ion: 88 Resp: 435
Ion Ratio Lower Upper
88 100
43 29.9 17.2 25.8#
58 55.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 57
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

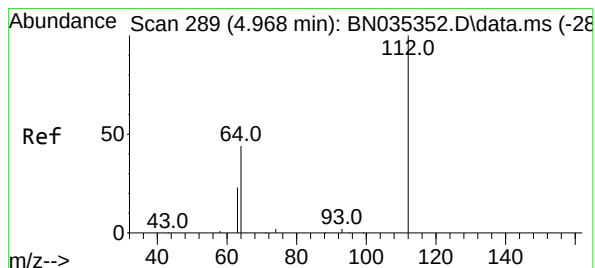
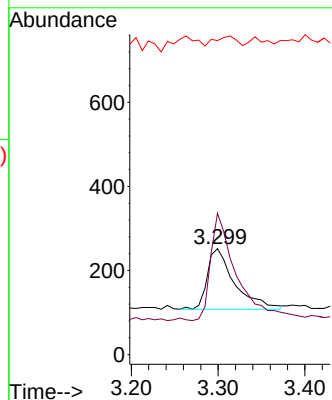
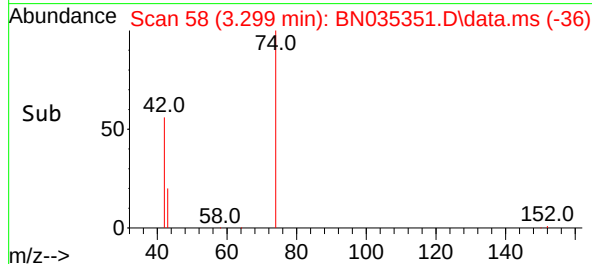
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

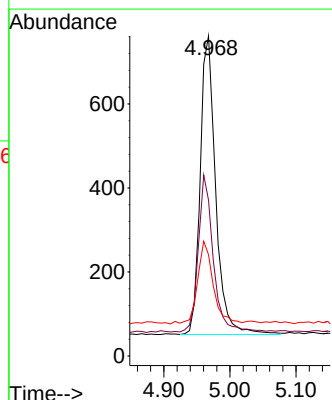
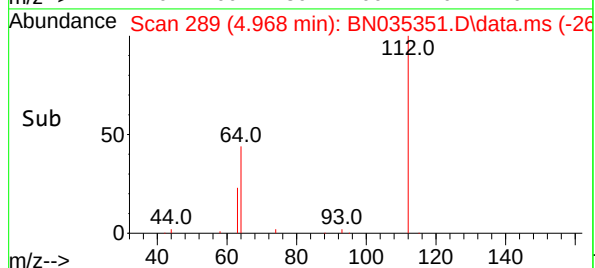
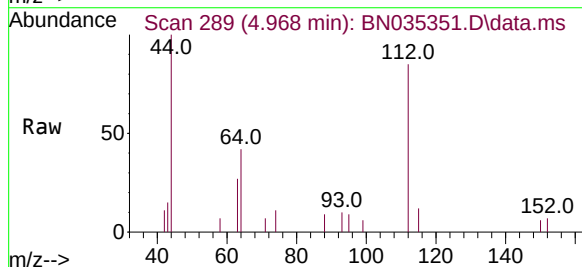
Manual Integrations
APPROVED

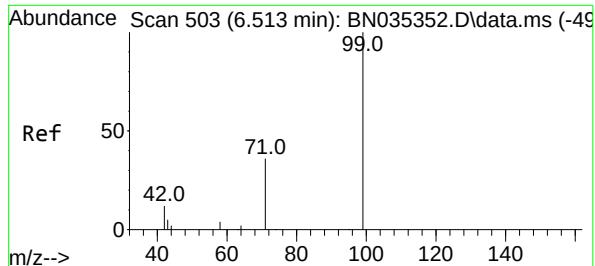
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 27.9 21.0 31.6





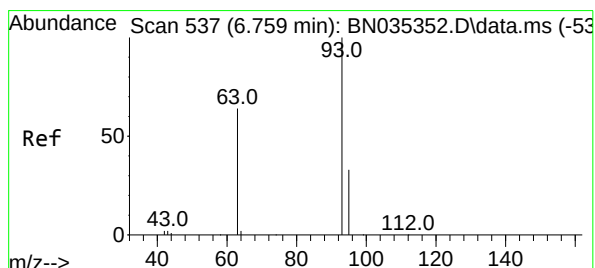
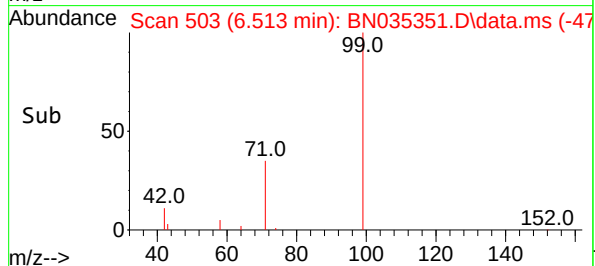
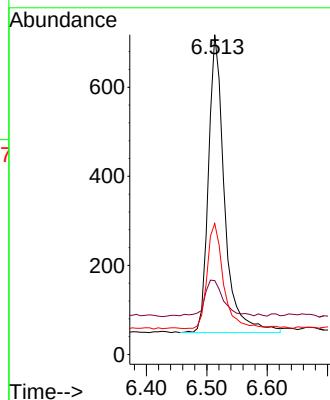
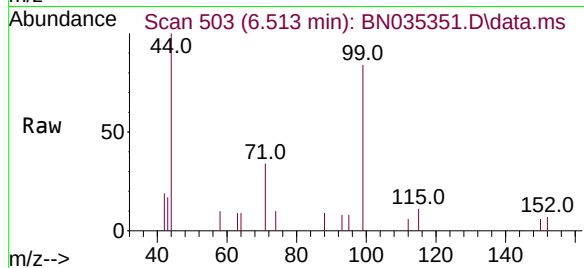
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

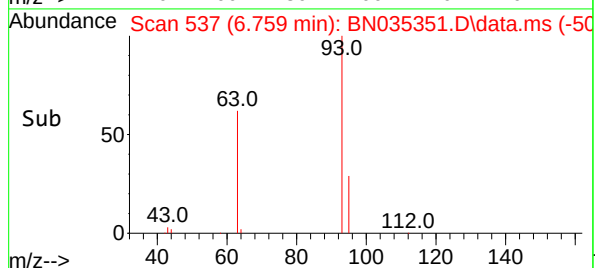
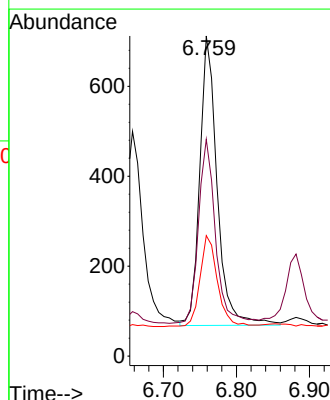
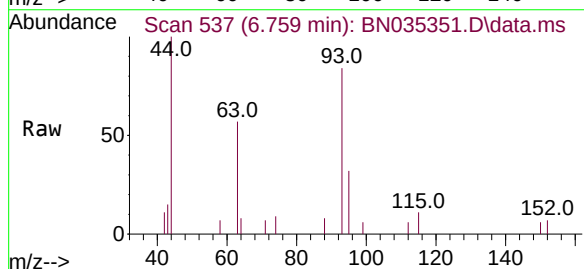
Manual Integrations
APPROVED

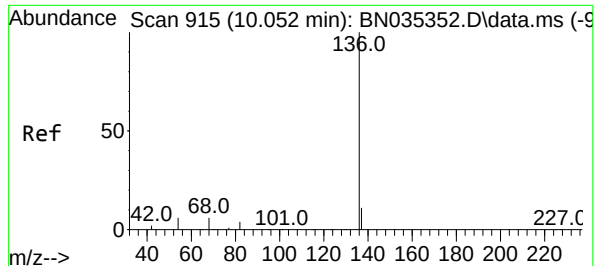
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064
Ion Ratio Lower Upper
93 100
63 62.2 50.4 75.6
95 31.6 25.7 38.5





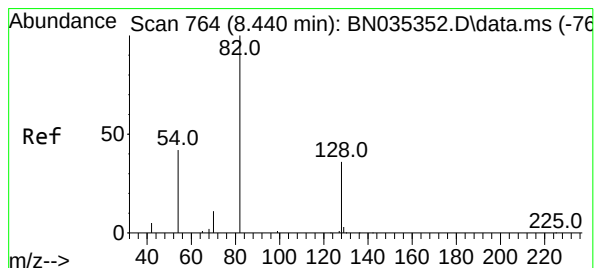
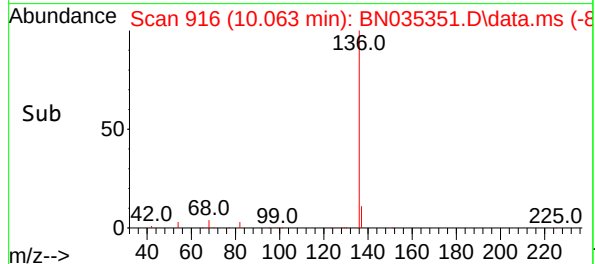
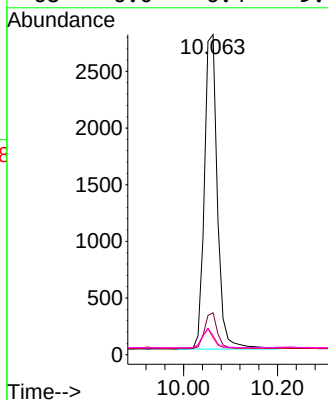
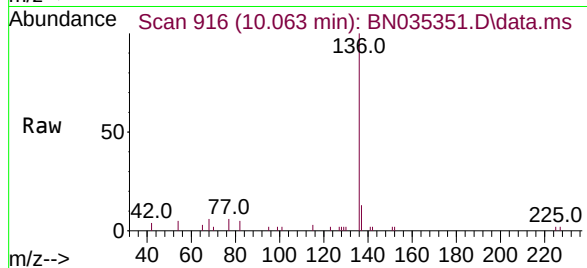
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

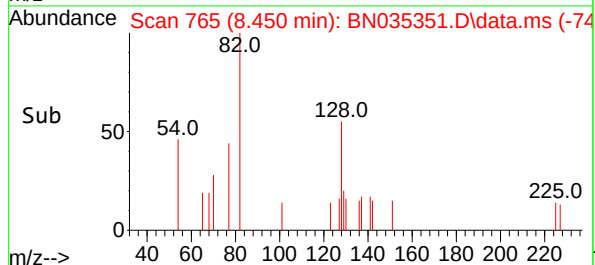
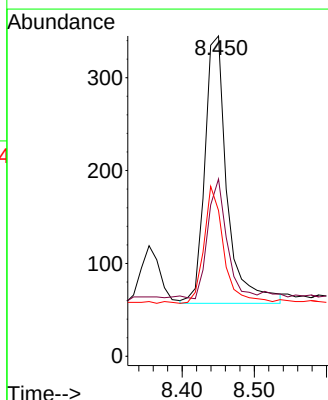
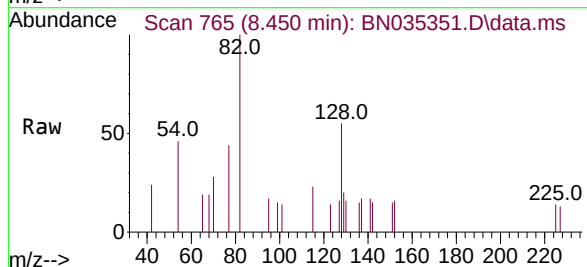
Manual Integrations
APPROVED

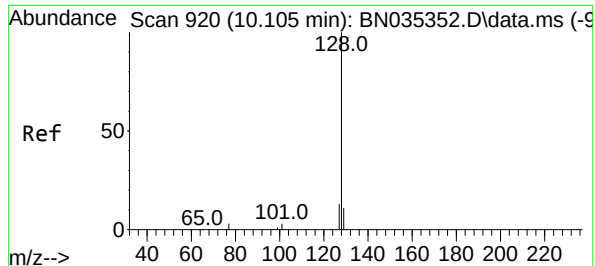
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618
Ion Ratio Lower Upper
82 100
128 55.4 33.4 50.0#
54 45.5 36.7 55.1





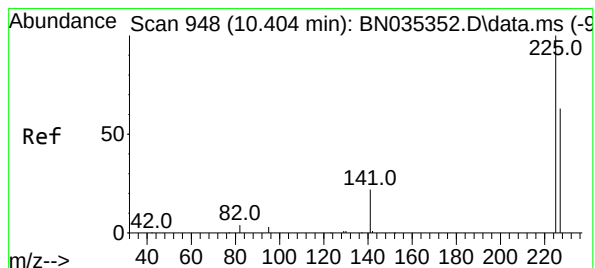
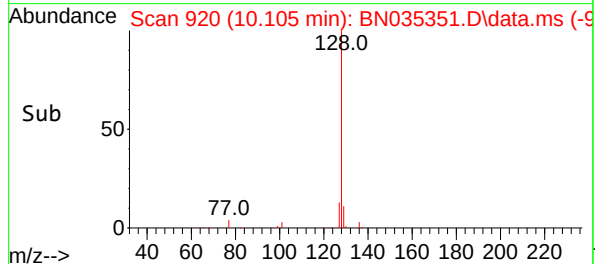
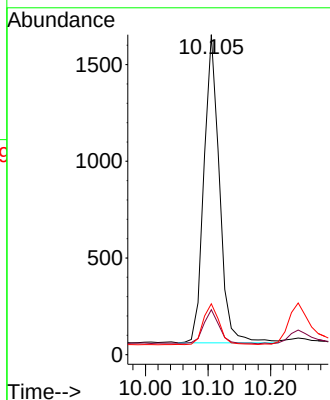
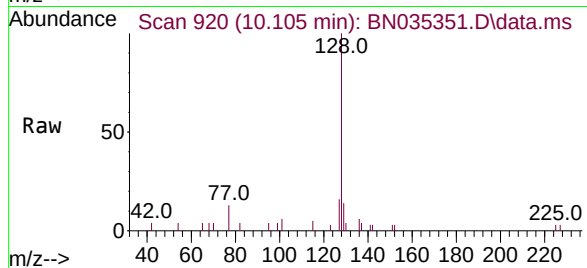
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

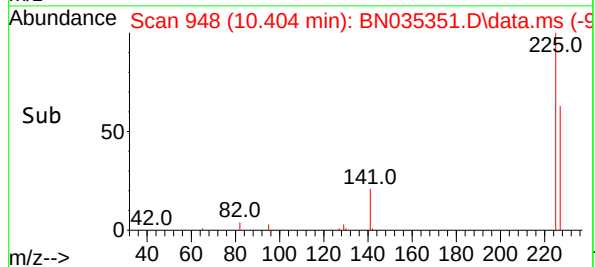
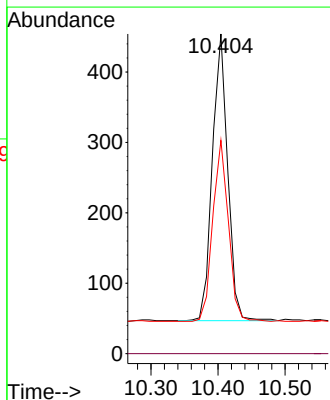
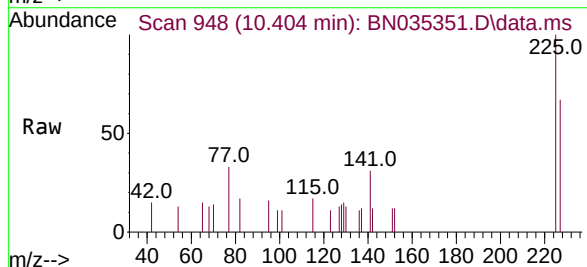
Manual Integrations
APPROVED

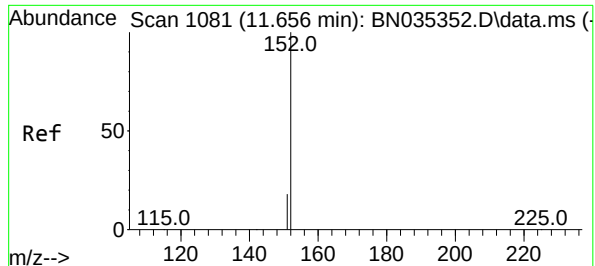
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

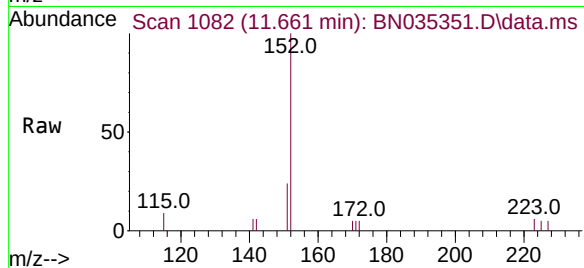
Tgt Ion:225 Resp: 646
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

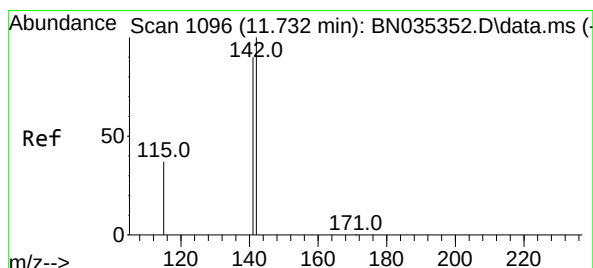
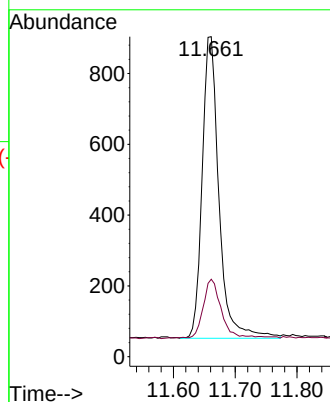
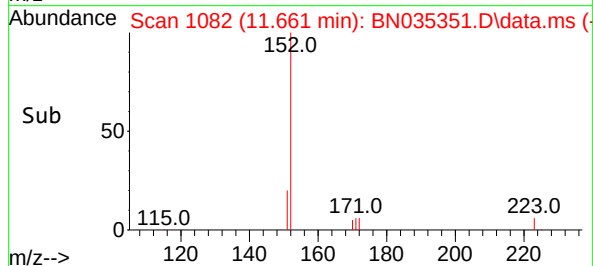
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0

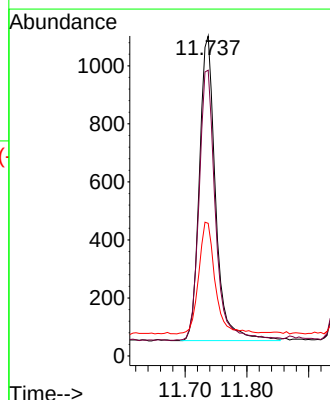
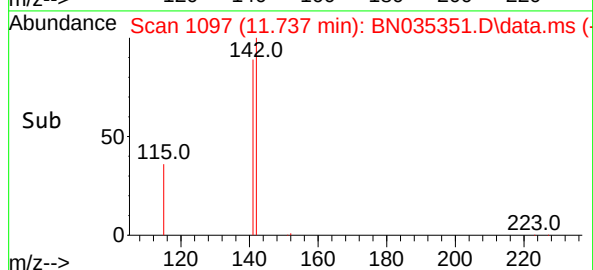
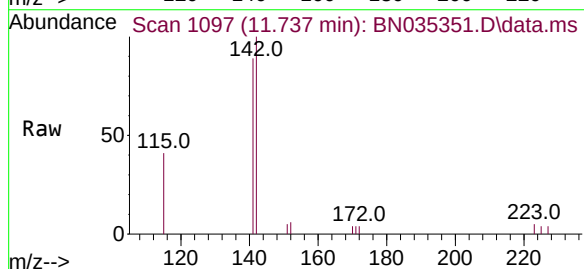
Manual Integrations
APPROVED

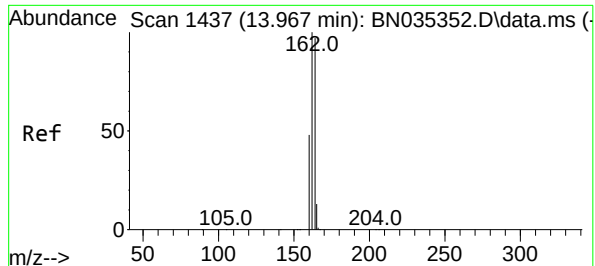
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

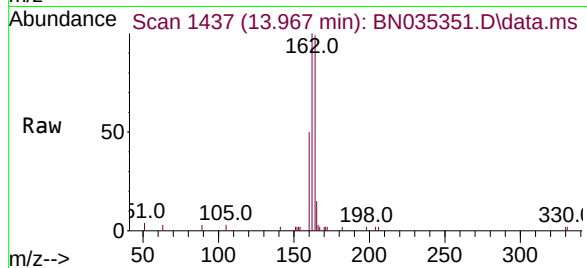
Tgt Ion:142 Resp: 1910
Ion Ratio Lower Upper
142 100
141 89.3 72.2 108.4
115 41.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

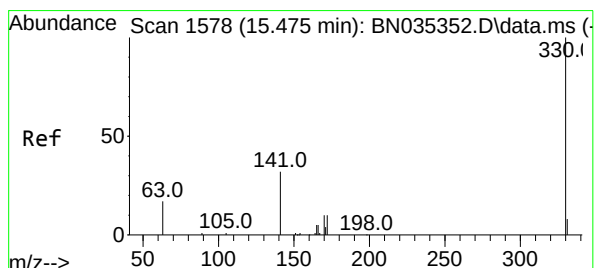
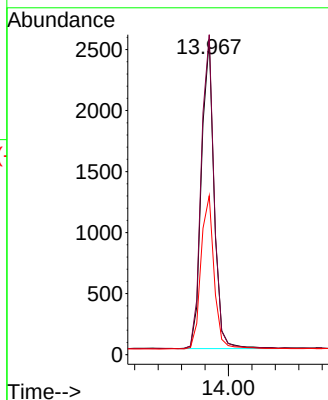
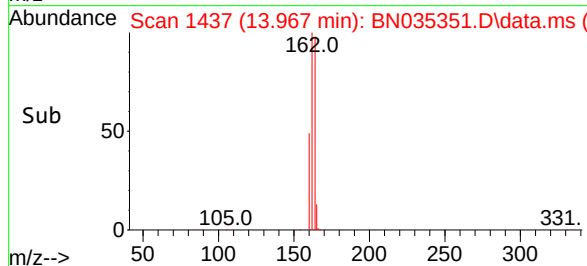
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:164 Resp: 3808
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1

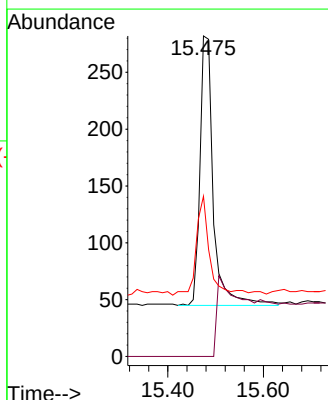
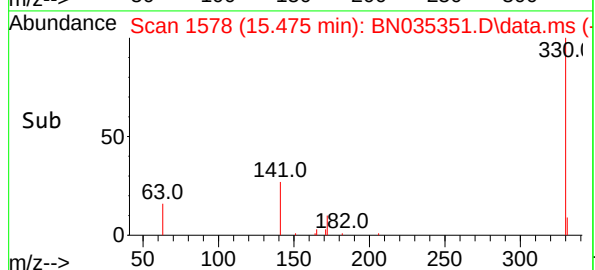
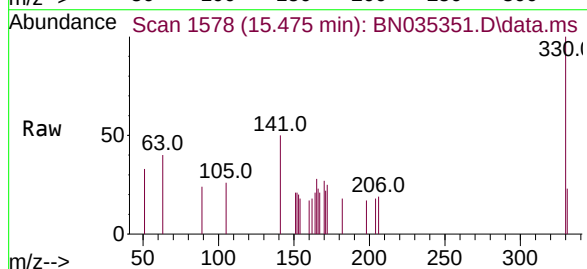
Manual Integrations
APPROVED

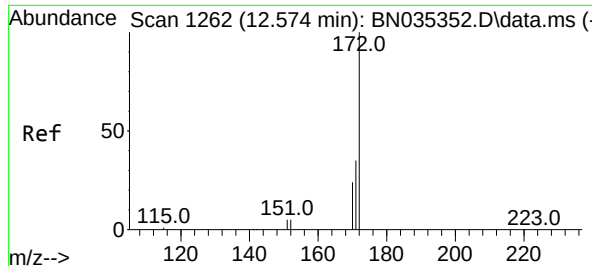
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#14
2,4,6-Tribromophenol
Concen: 0.179 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

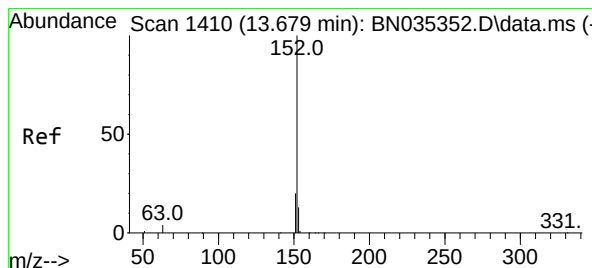
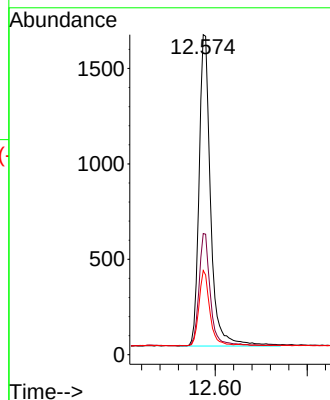
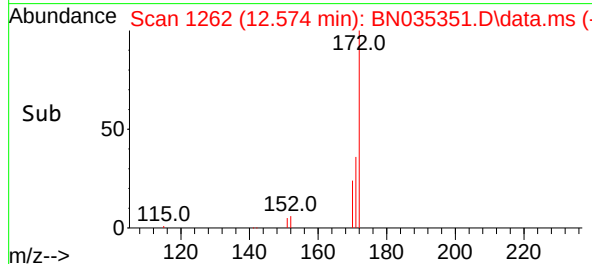
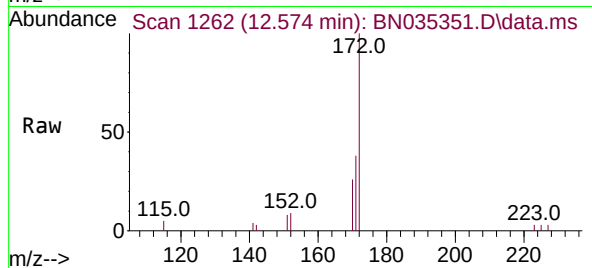
170 26.3 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.187 ng

RT: 13.678 min Scan# 1410

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

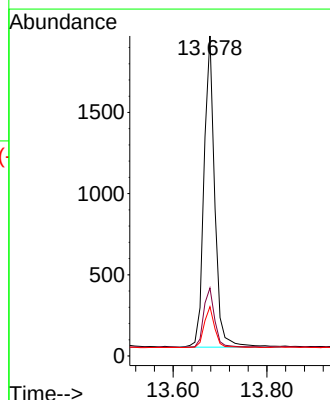
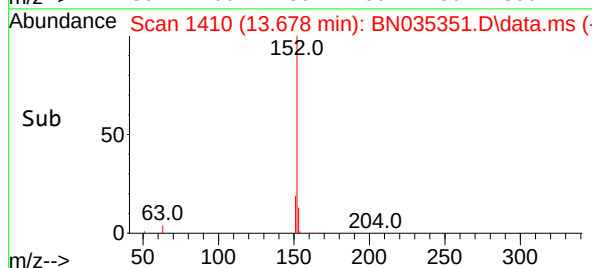
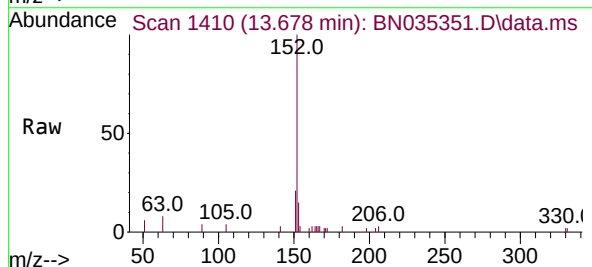
Tgt Ion:152 Resp: 3047

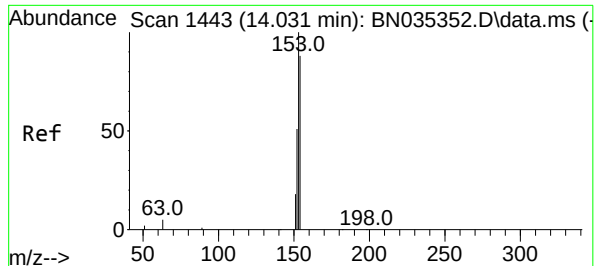
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

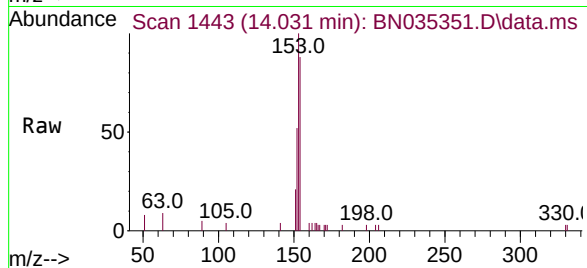
153 12.9 10.4 15.6





#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

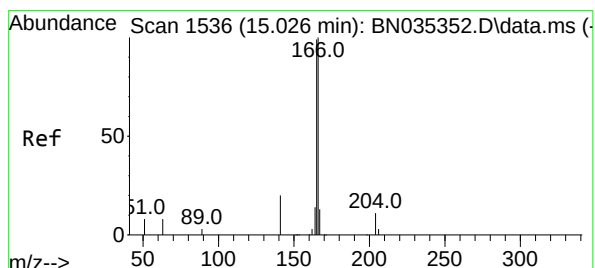
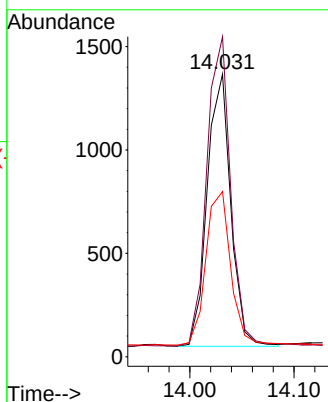
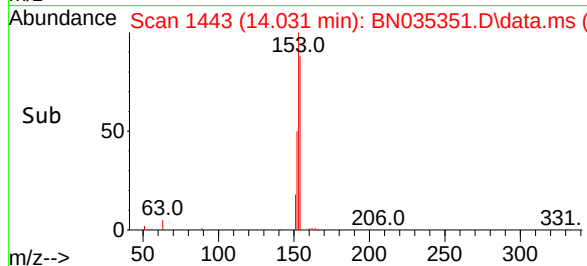
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

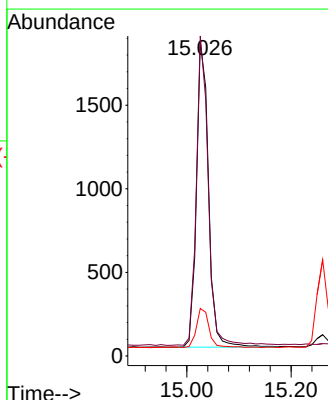
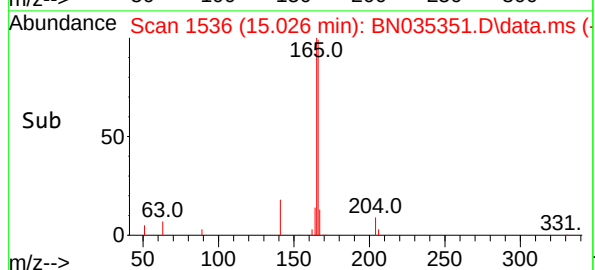
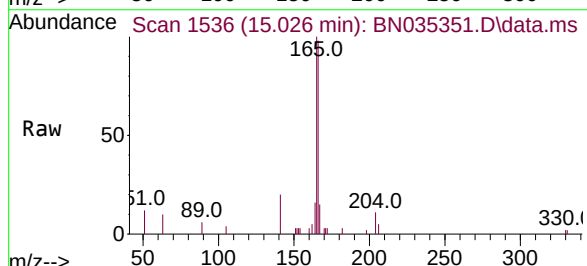
Manual Integrations
APPROVED

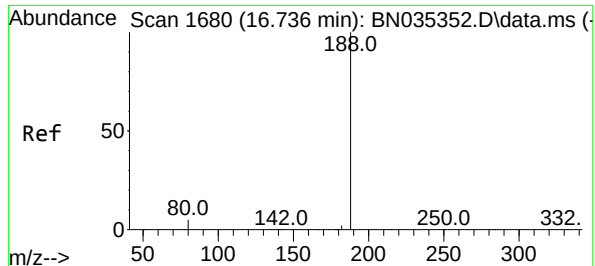
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

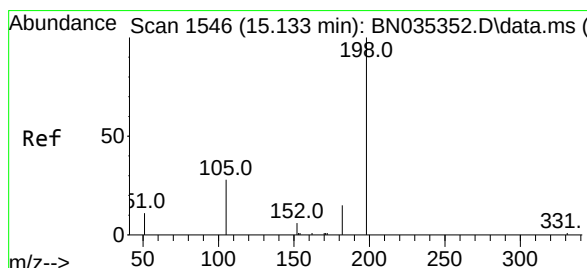
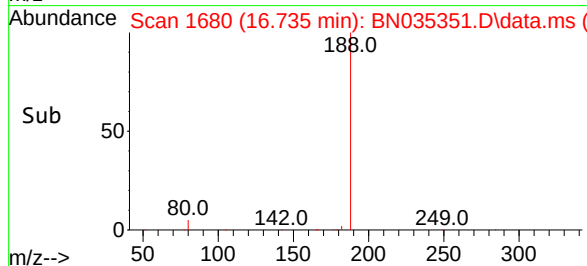
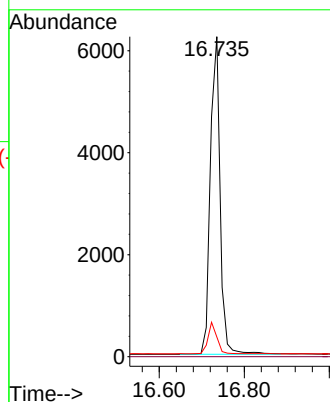
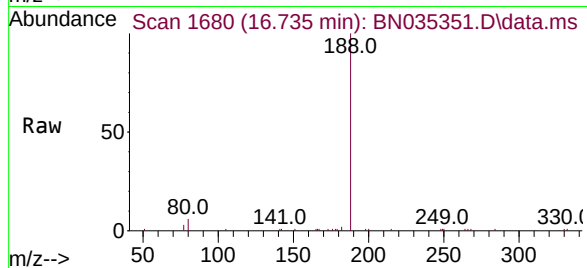
Tgt Ion:188	Resp:	990
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.2	6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

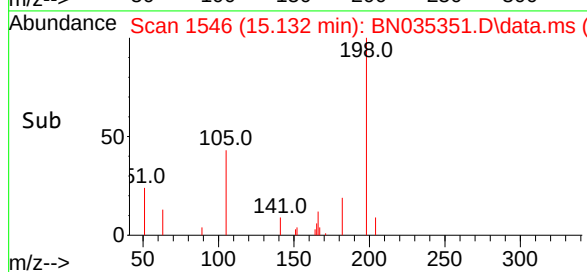
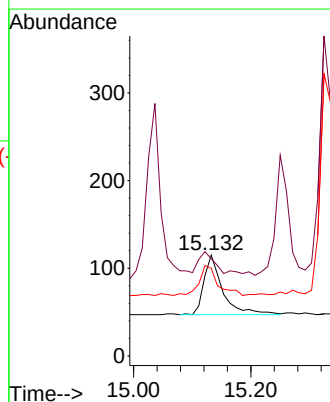
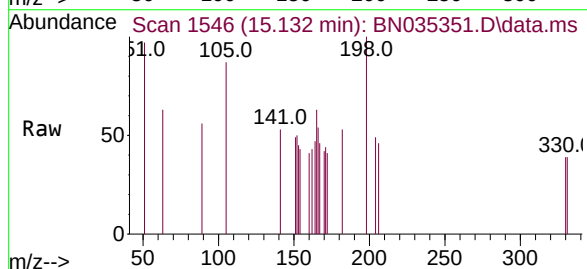
RT: 15.132 min Scan# 1546

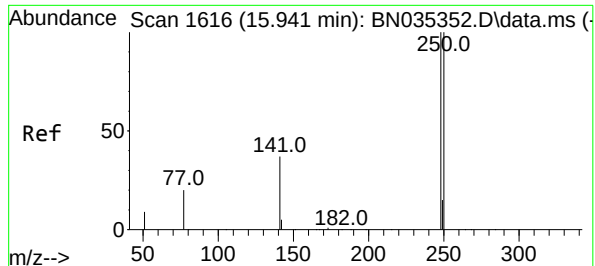
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

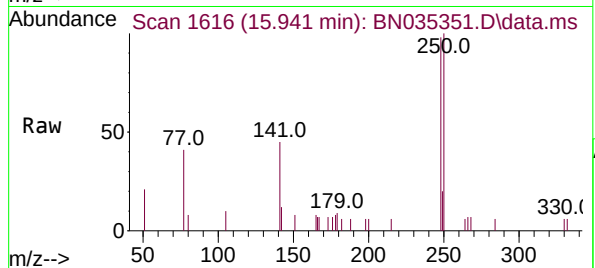
Tgt Ion:198	Resp:	153
Ion Ratio	Lower	Upper
198	100	
51	96.5	46.5
105	87.0	45.3





#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

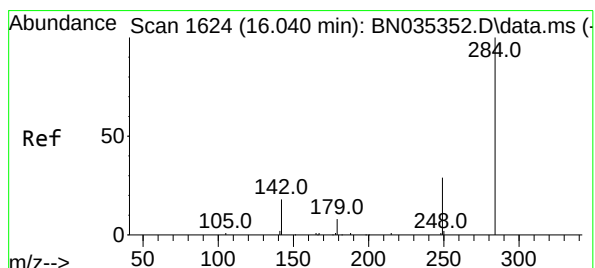
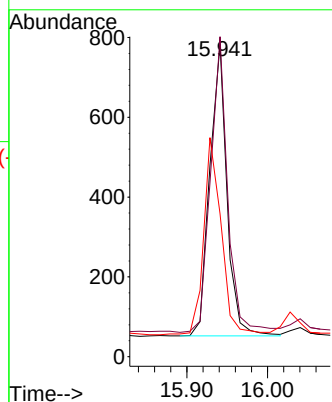
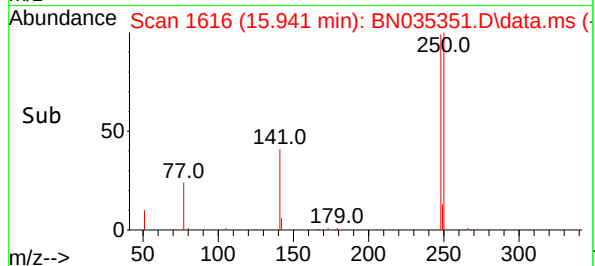
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

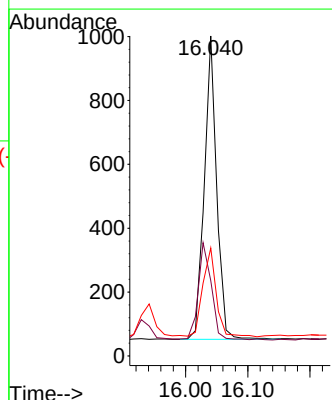
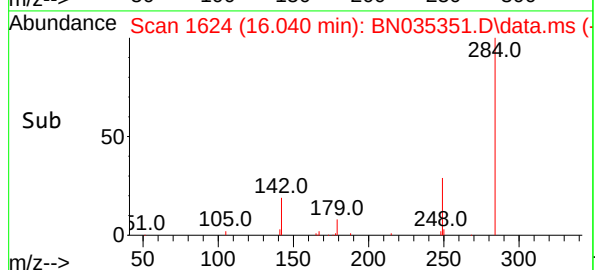
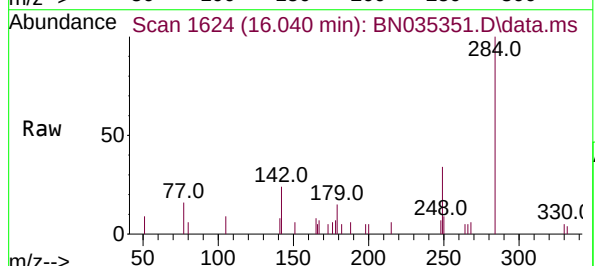
Manual Integrations
APPROVED

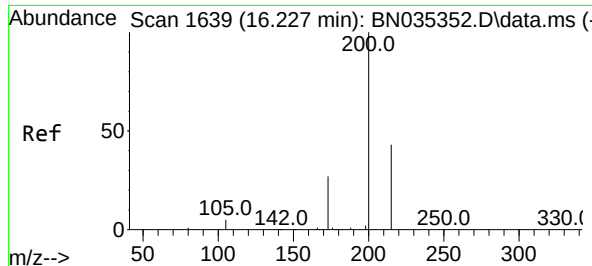
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

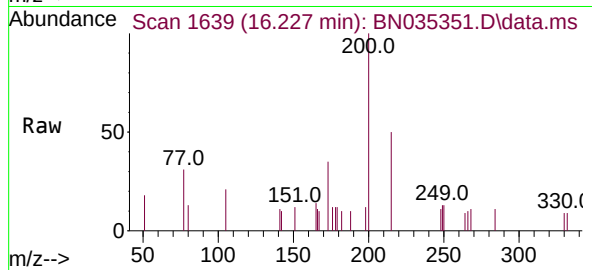
Tgt Ion:284 Resp: 1318
Ion Ratio Lower Upper
284 100
142 34.2 26.7 40.1
249 32.0 24.6 36.8





#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

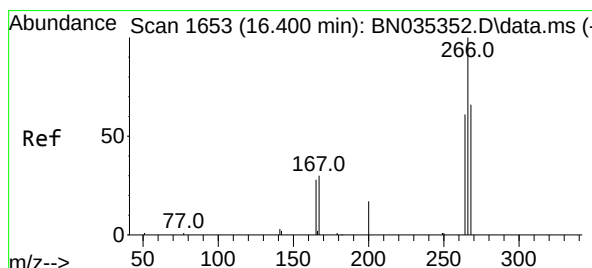
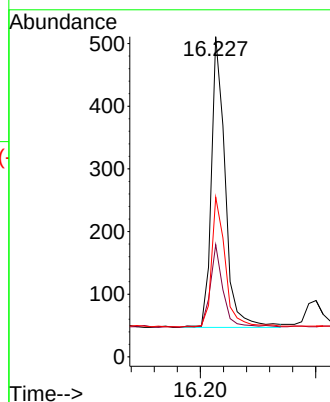
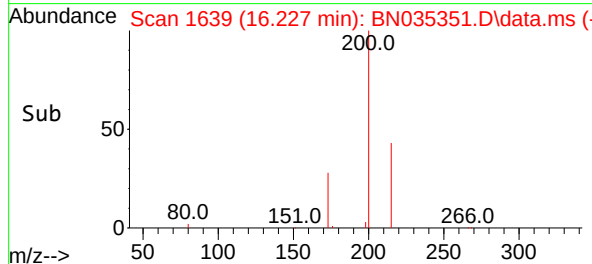
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

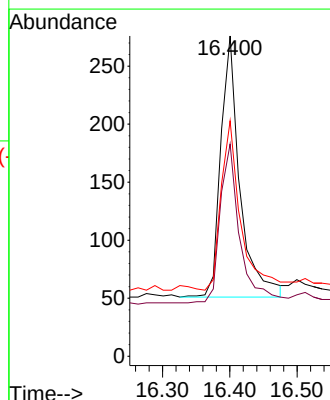
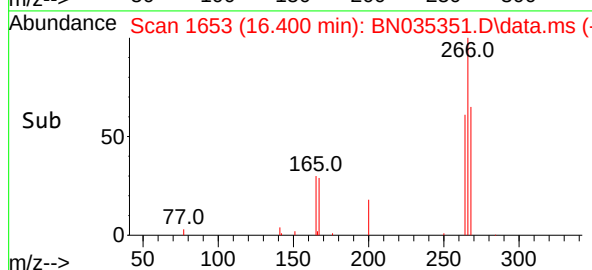
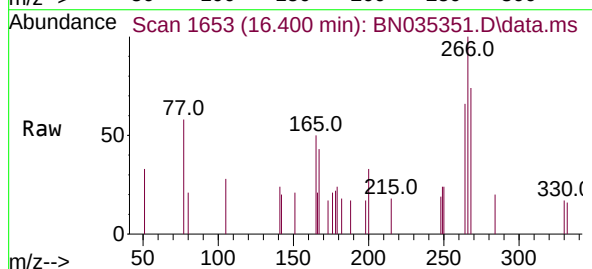
Manual Integrations
APPROVED

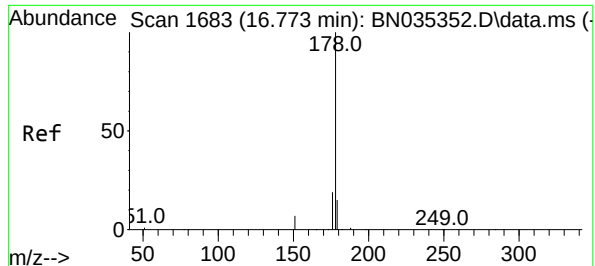
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445
Ion Ratio Lower Upper
266 100
264 62.7 42.3 63.5
268 67.2 43.3 64.9#





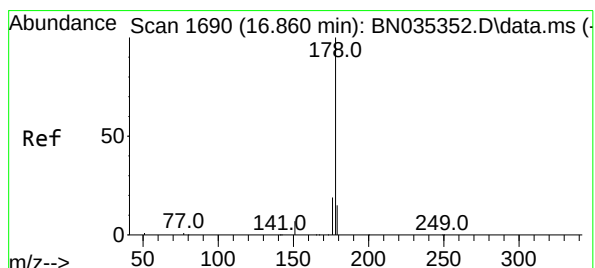
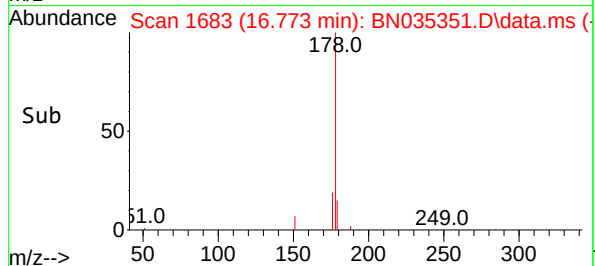
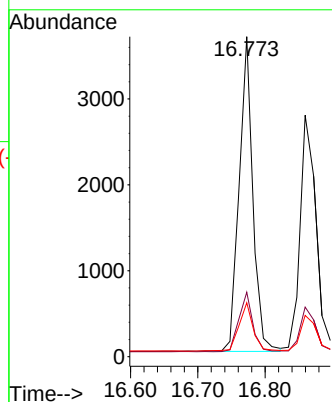
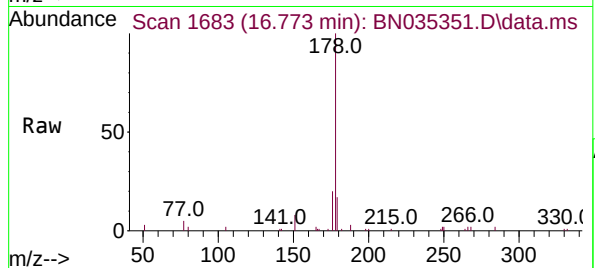
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

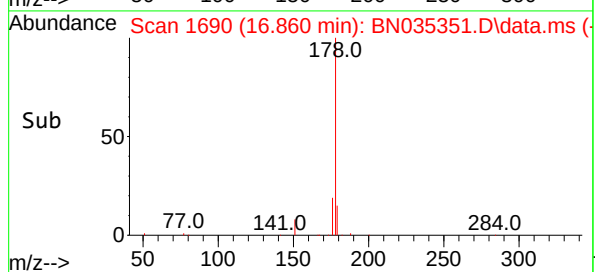
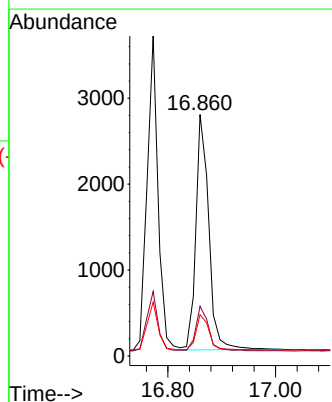
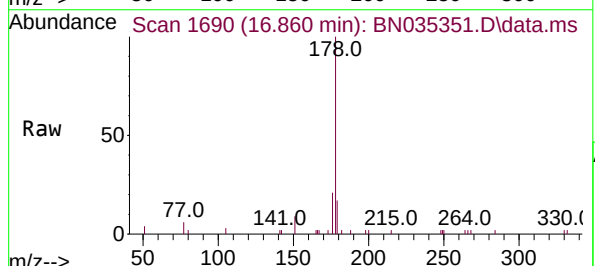
Manual Integrations
APPROVED

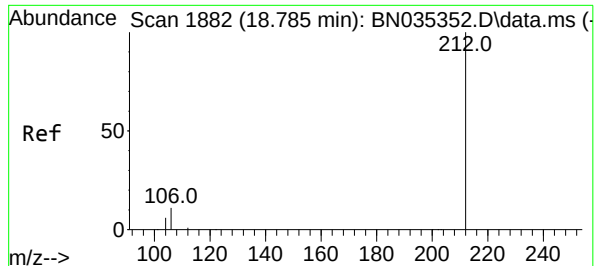
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





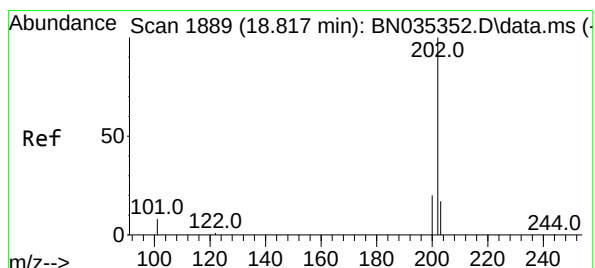
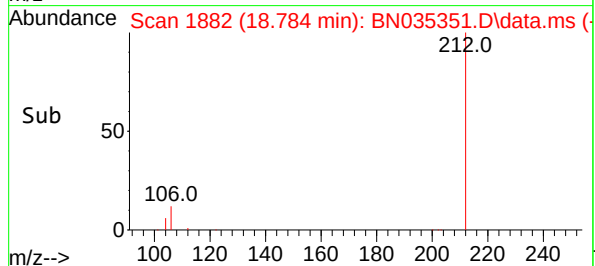
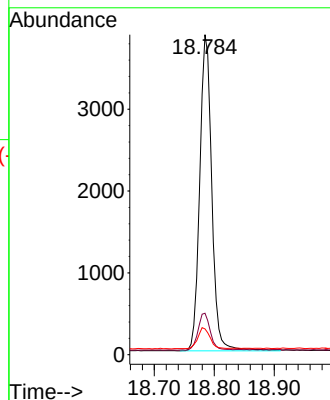
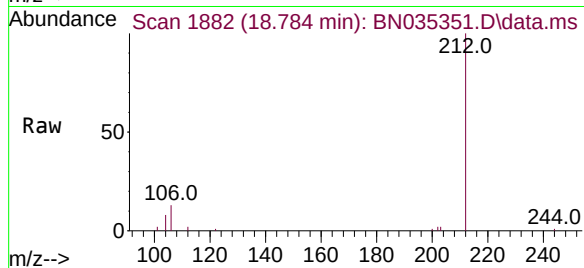
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

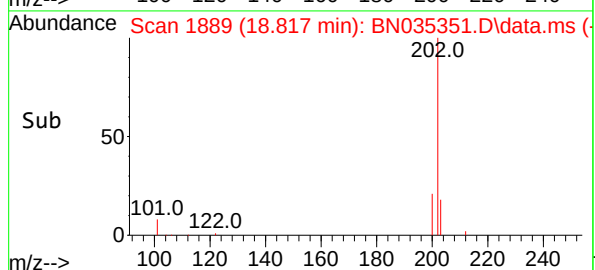
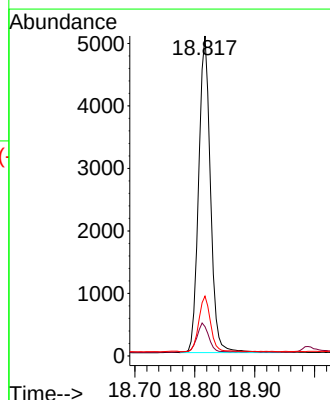
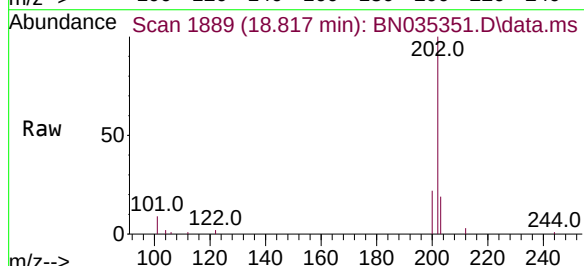
Manual Integrations
APPROVED

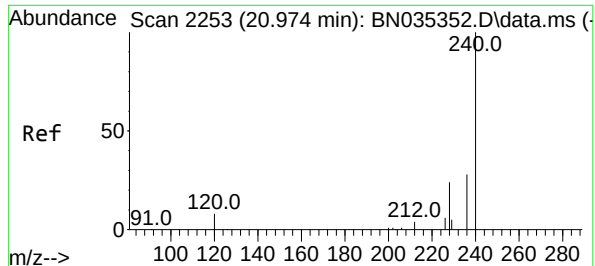
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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 :

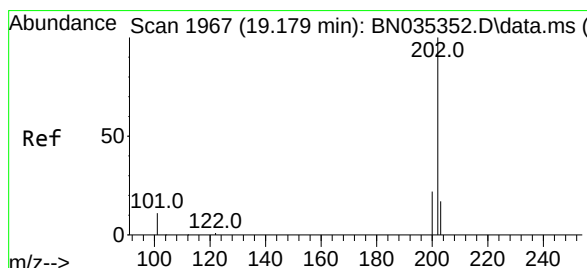
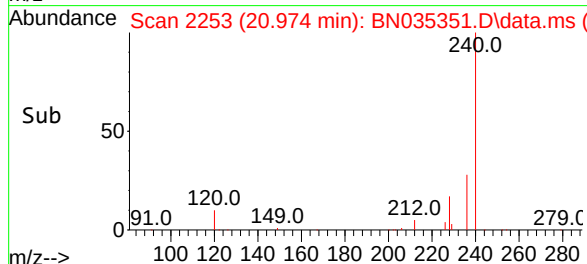
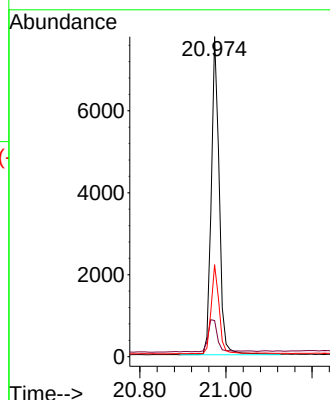
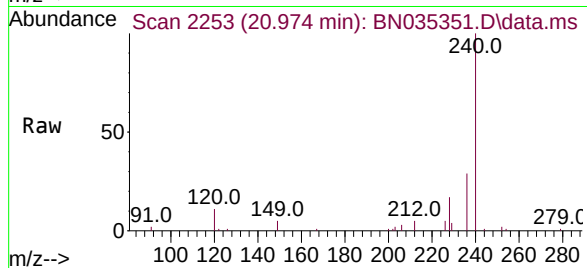
SSTDICC0.2

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

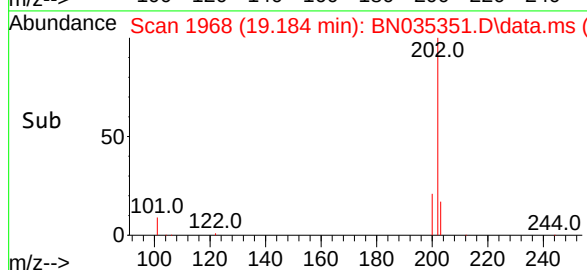
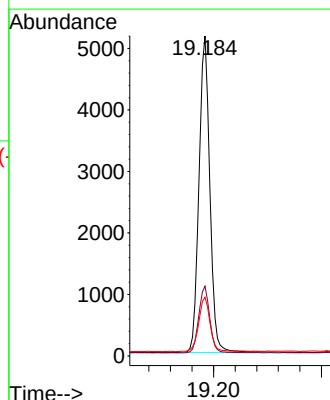
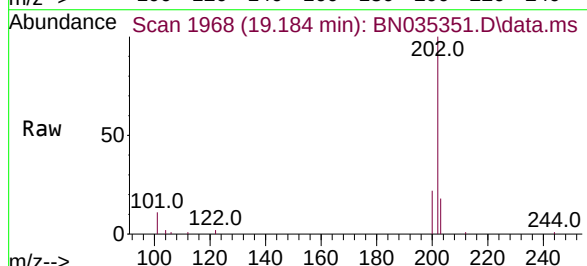
RT: 19.184 min Scan# 1968

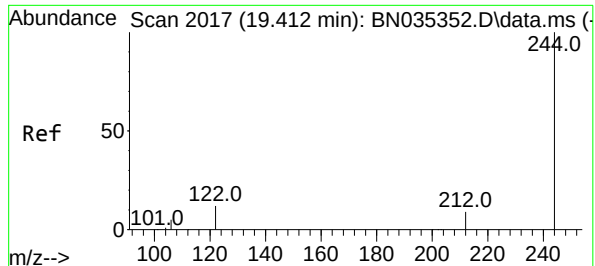
Delta R.T. 0.005 min

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 :

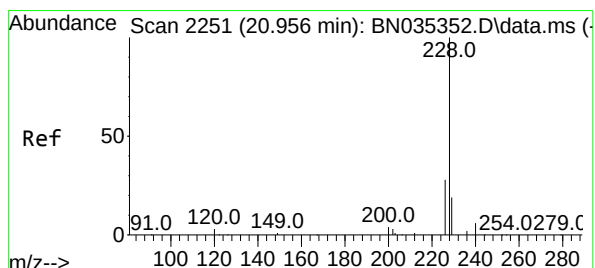
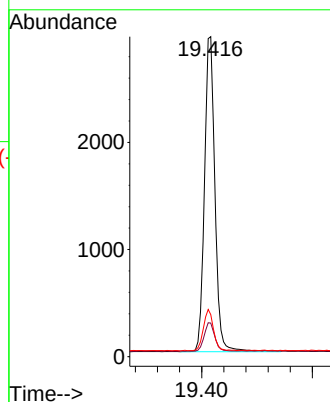
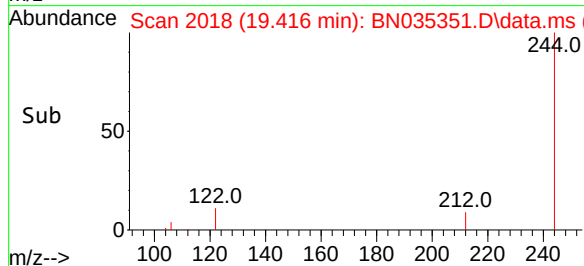
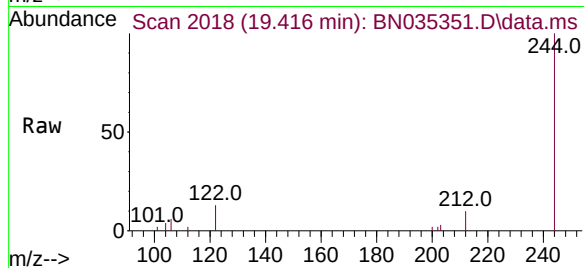
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

Manual Integrations

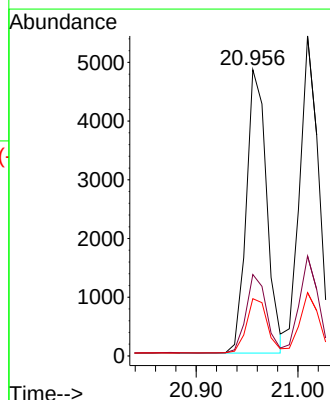
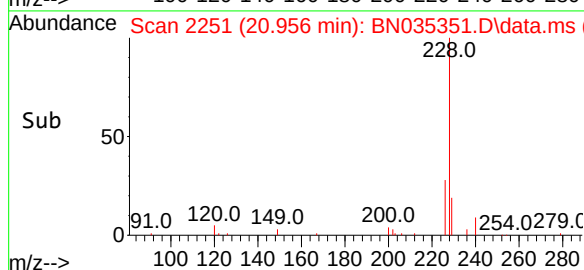
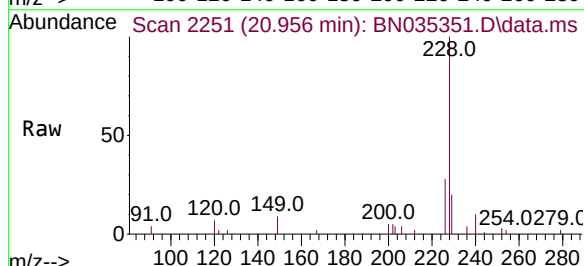
APPROVED

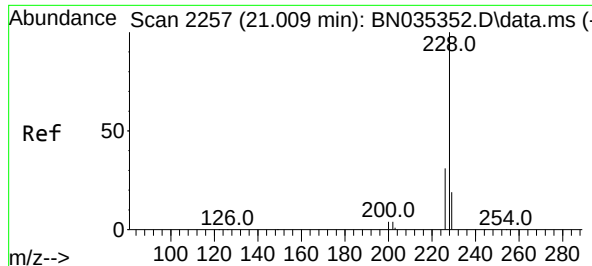
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

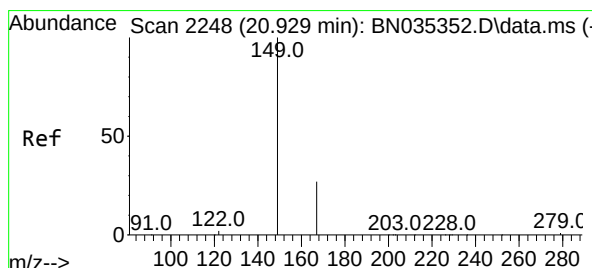
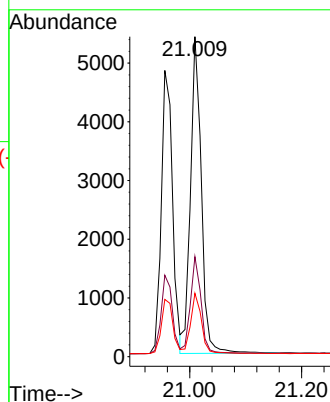
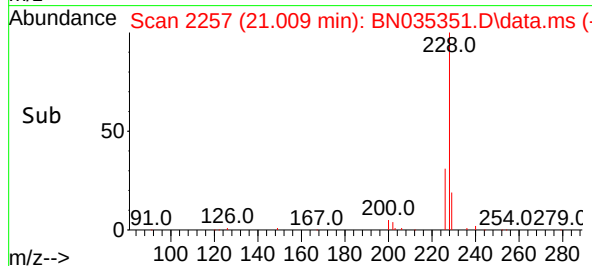
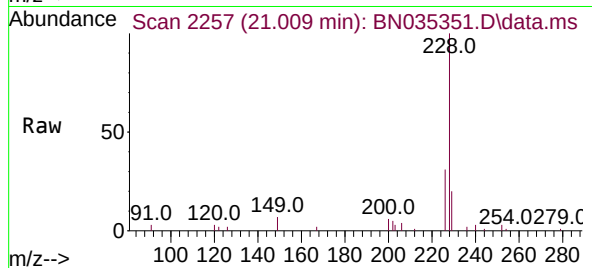
Tgt Ion:	228	Resp:	7234
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

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

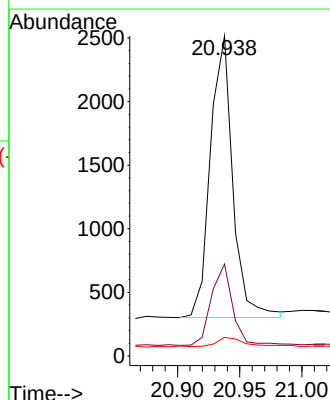
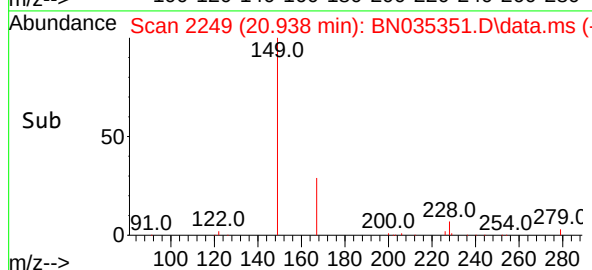
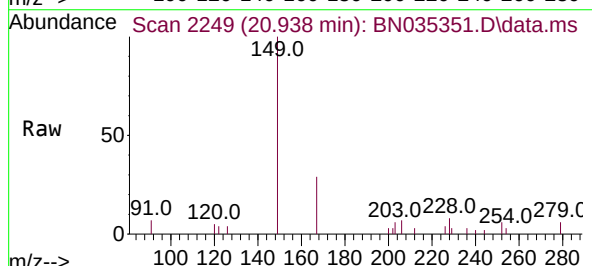
RT: 20.938 min Scan# 2249

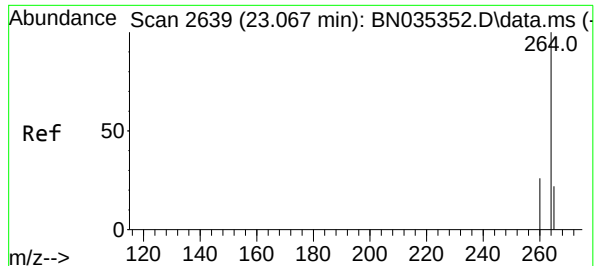
Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

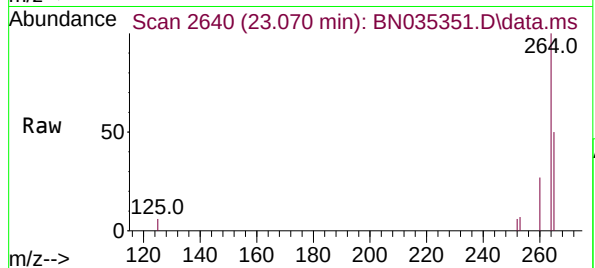
Tgt Ion:	149	Resp:	2779
Ion Ratio	Lower	Upper	
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#





#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

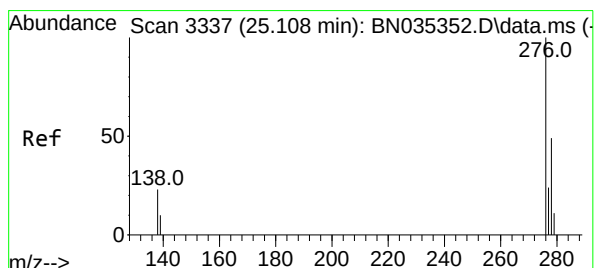
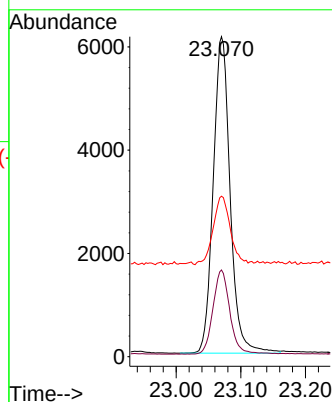
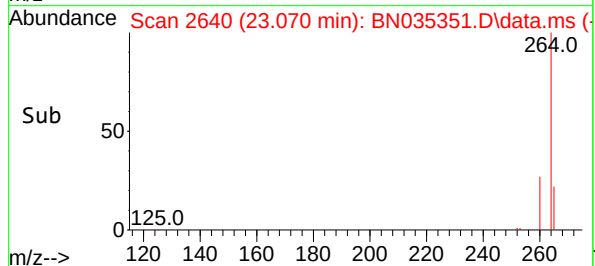
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

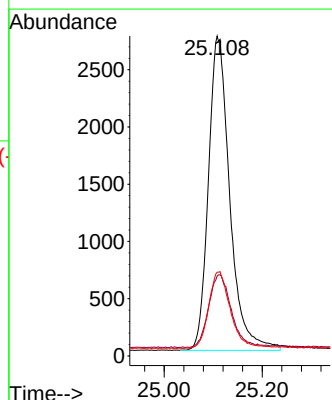
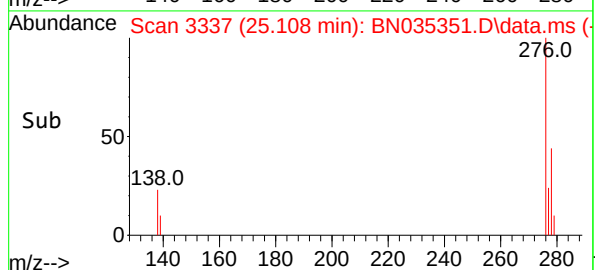
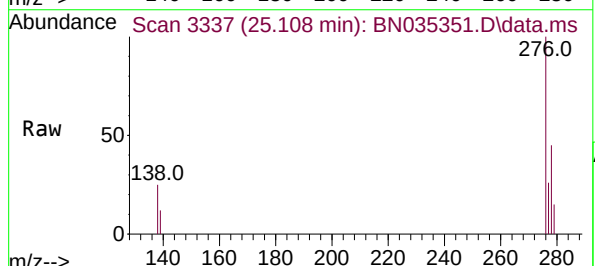
Manual Integrations
APPROVED

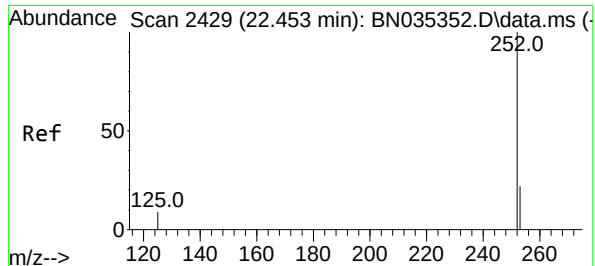
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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 :

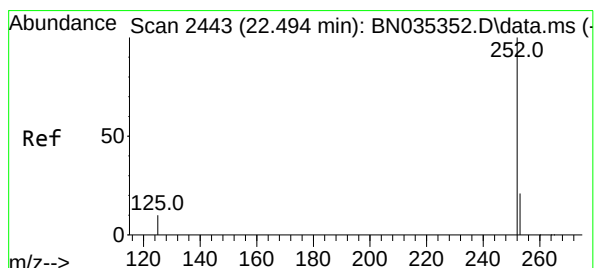
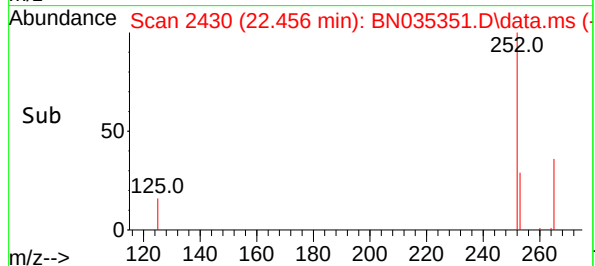
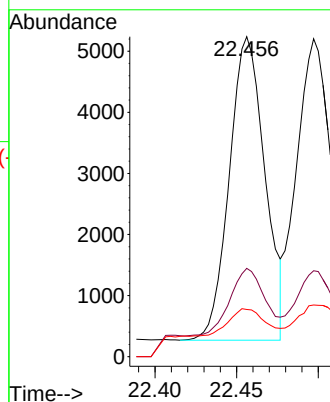
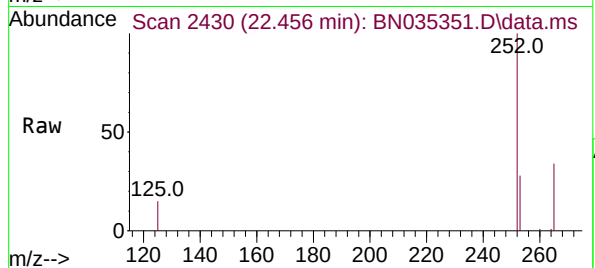
SSTDICC0.2

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

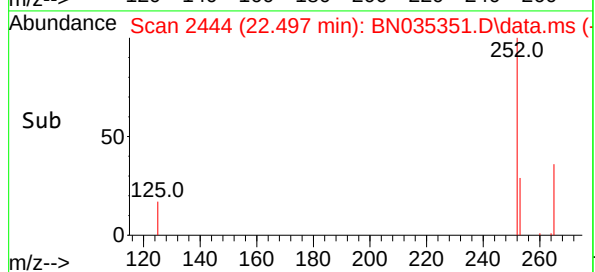
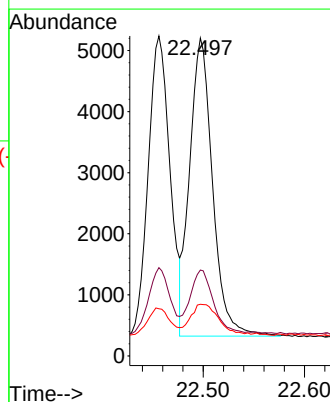
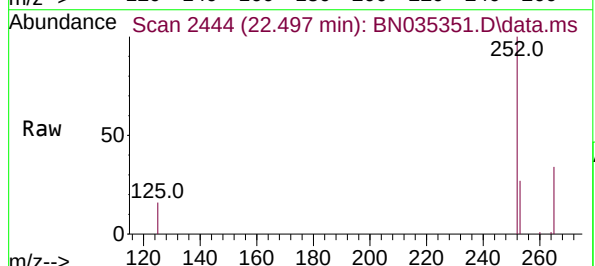
RT: 22.497 min Scan# 2444

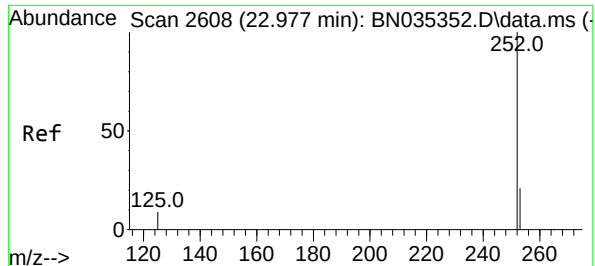
Delta R.T. 0.003 min

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 :

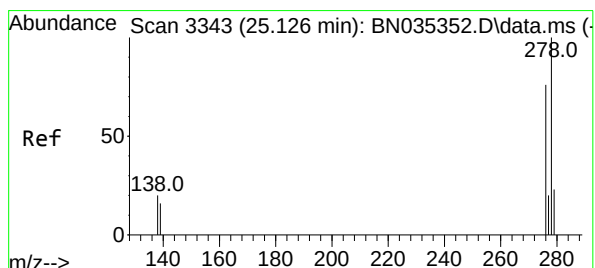
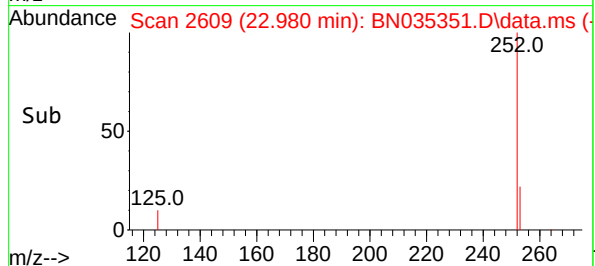
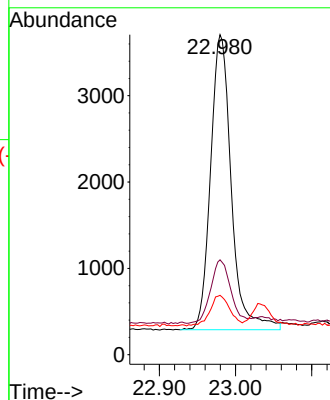
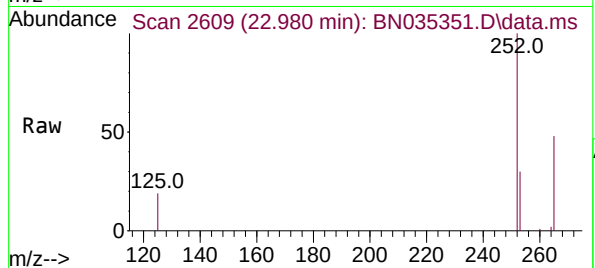
SSTDICC0.2

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

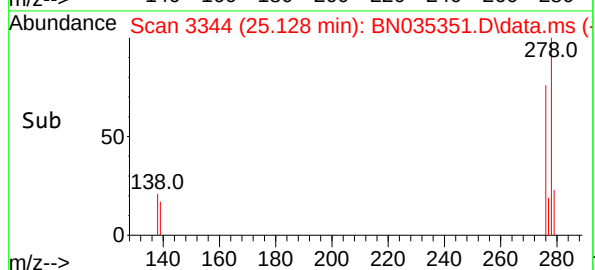
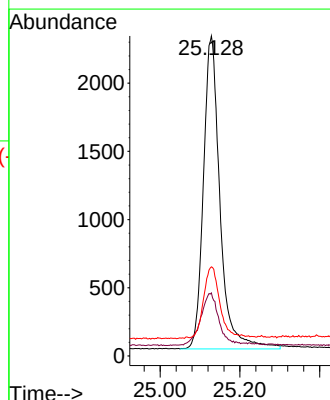
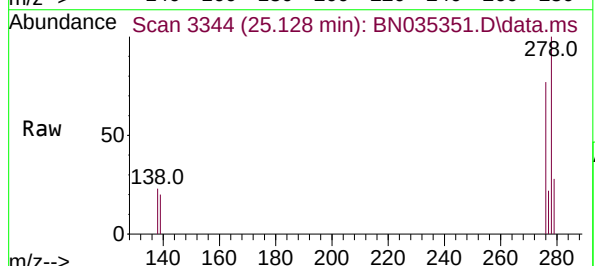
RT: 25.128 min Scan# 3344

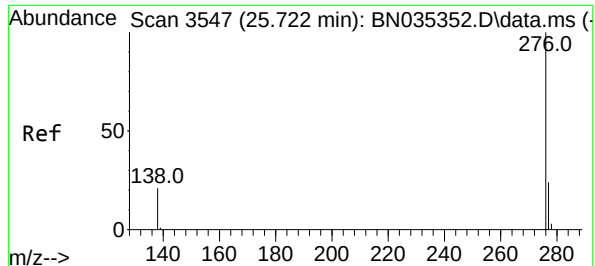
Delta R.T. 0.003 min

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# 3547

Delta R.T. 0.003 min

Lab File: BN035351.D

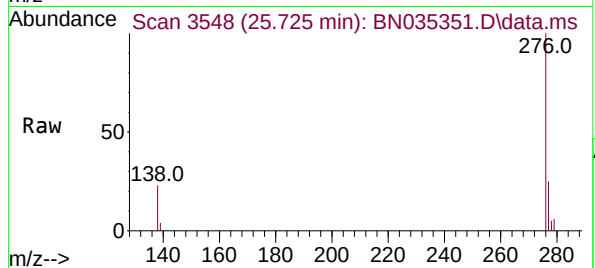
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

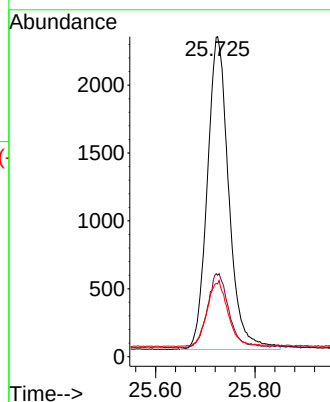
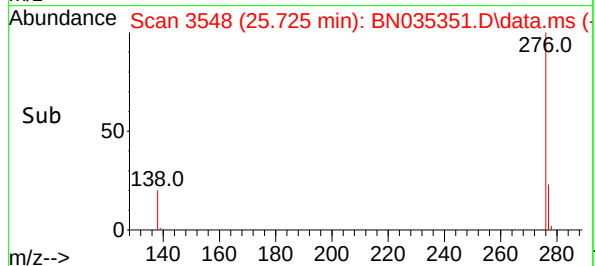
138 22.7 17.8 26.8

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

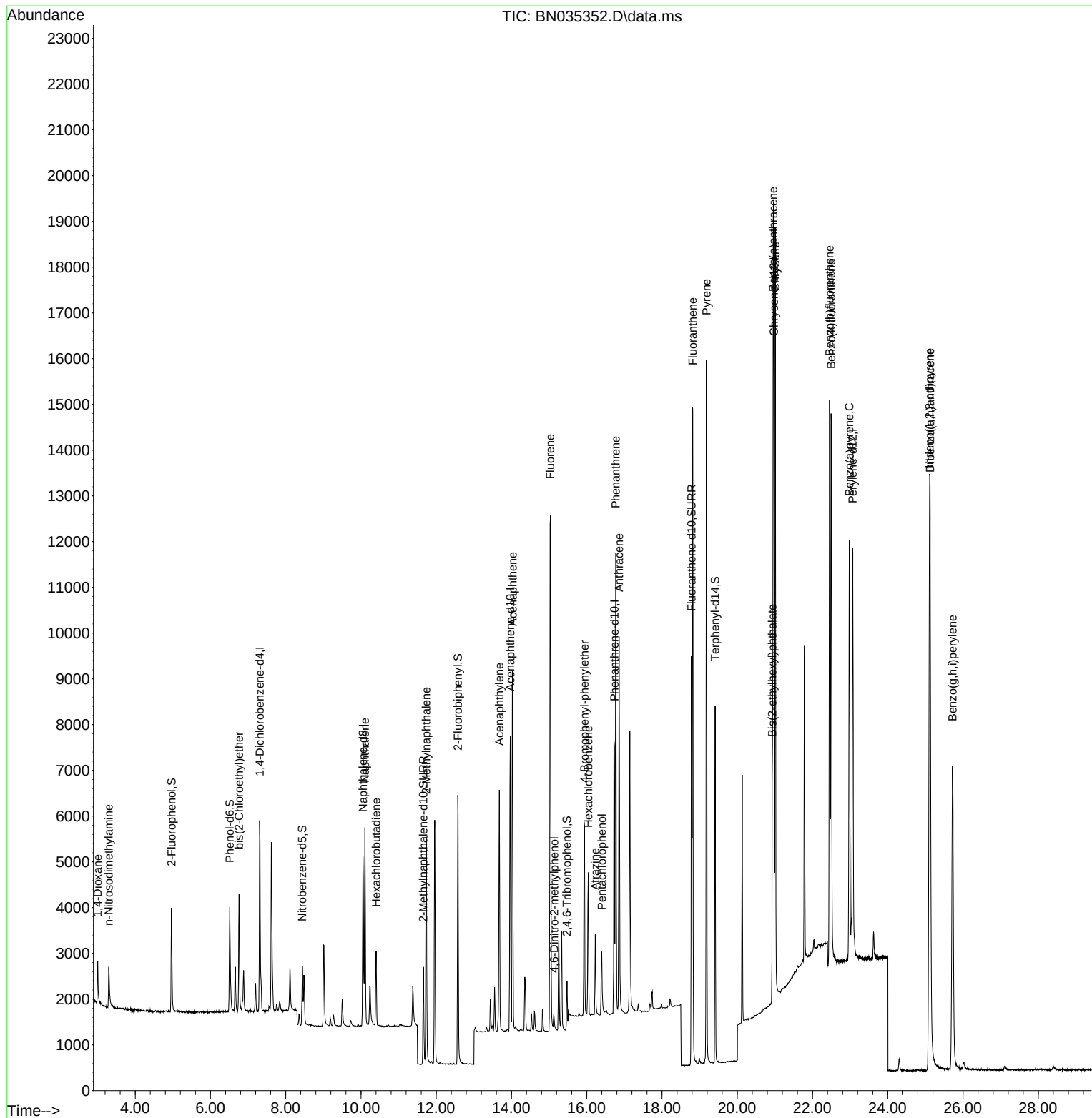
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

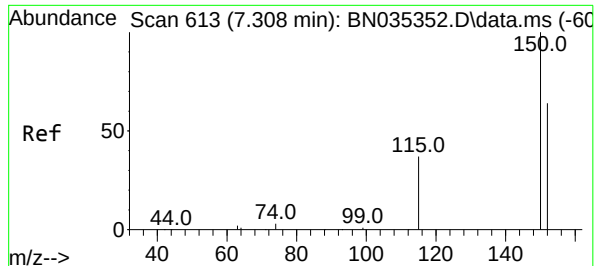
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

Manual Integrations
APPROVED

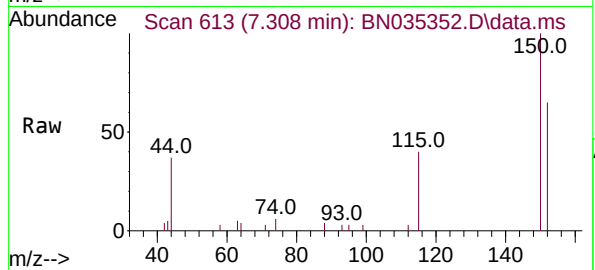
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

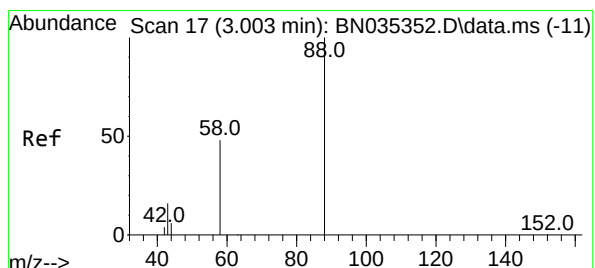
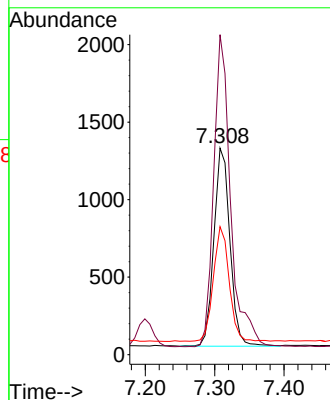
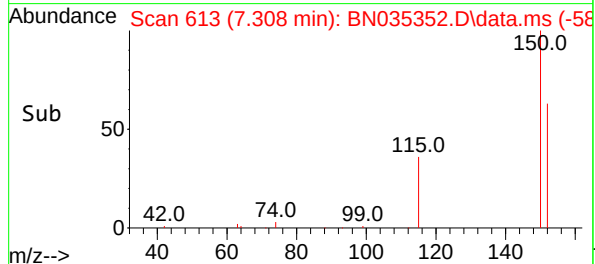
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

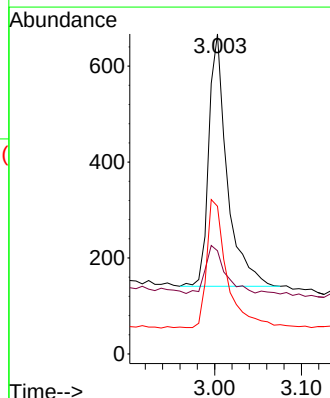
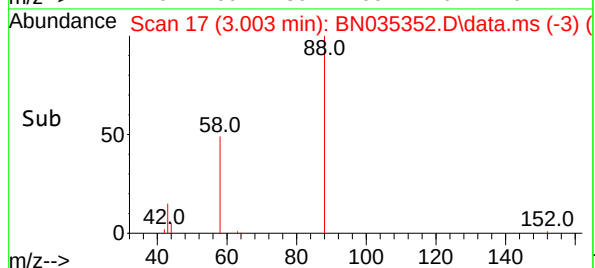
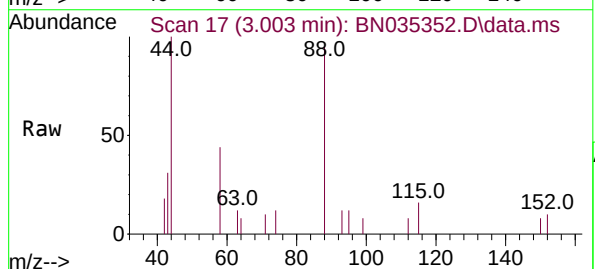
Manual Integrations
APPROVED

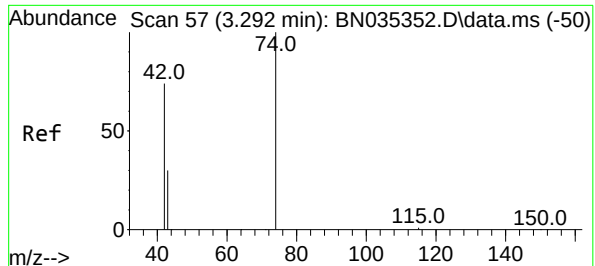
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

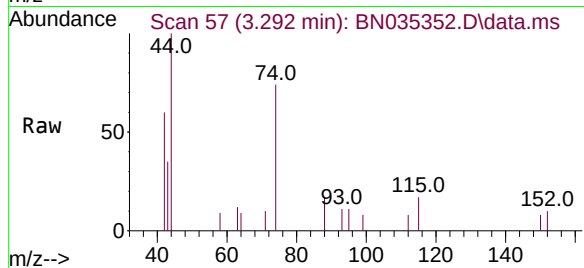
Tgt Ion: 88 Resp: 771
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 55.6 44.5 66.7





#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

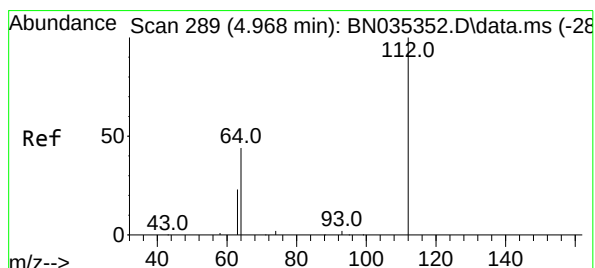
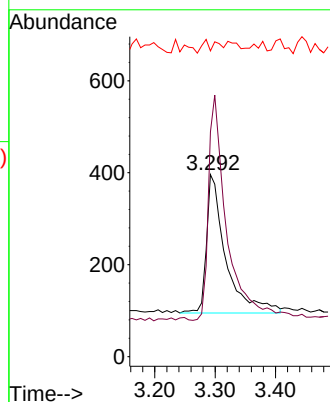
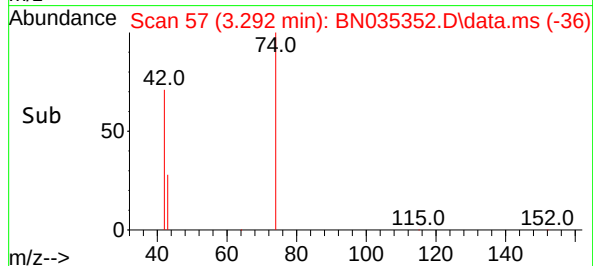
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

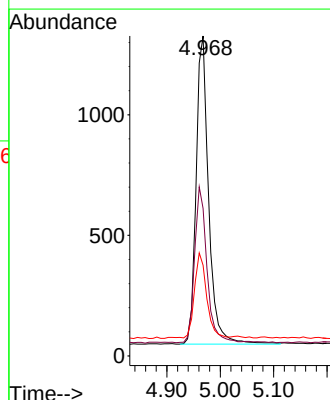
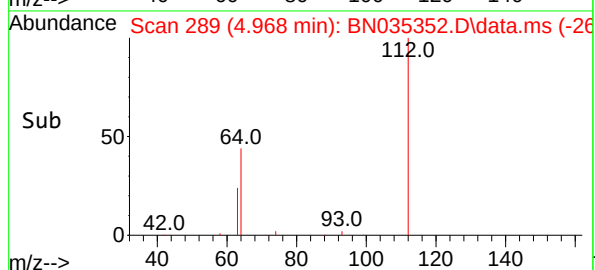
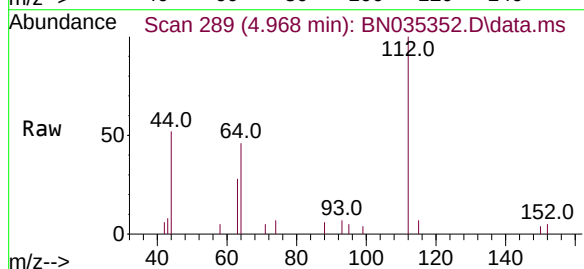
Manual Integrations
APPROVED

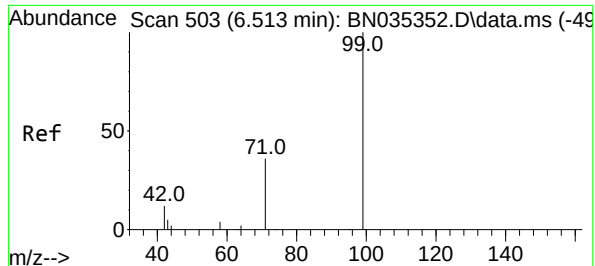
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

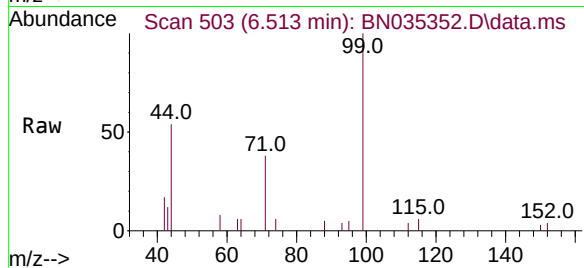
Tgt Ion:112 Resp: 2085
Ion Ratio Lower Upper
112 100
64 49.8 39.8 59.8
63 26.3 21.0 31.6





#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

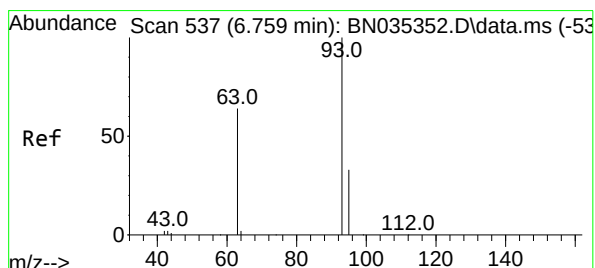
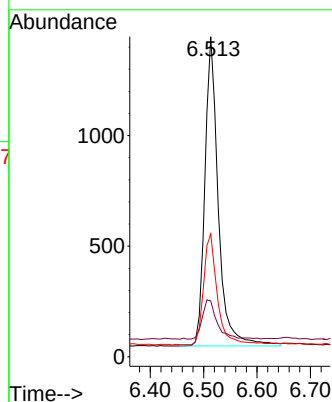
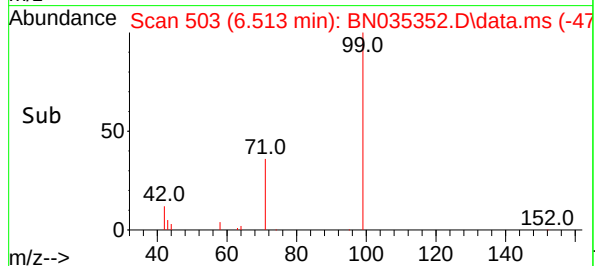
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

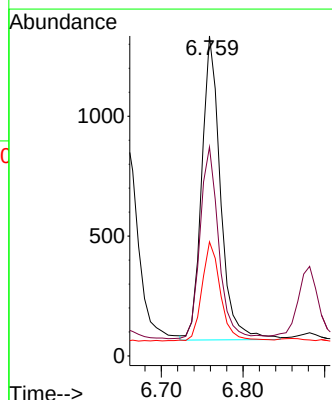
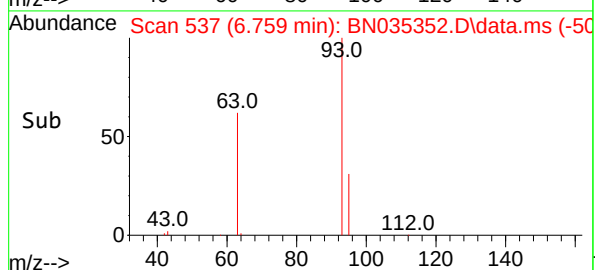
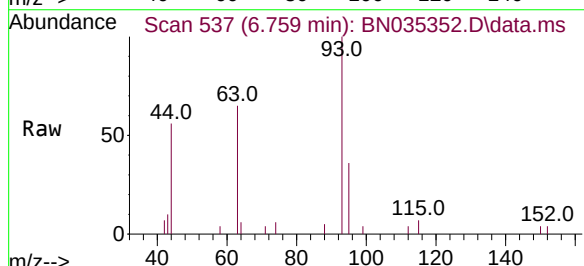
Manual Integrations
APPROVED

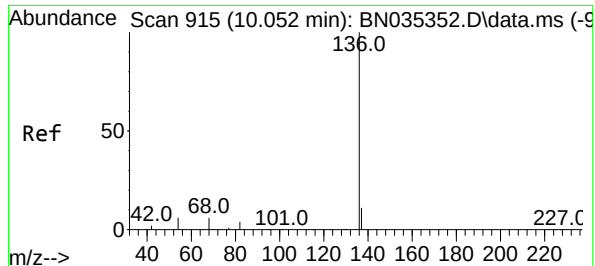
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

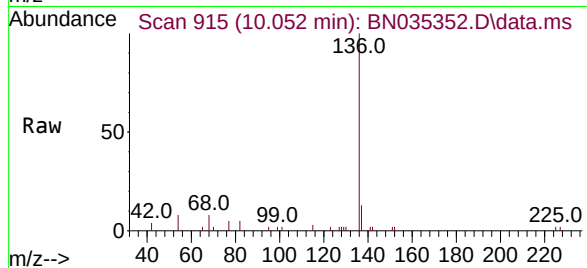
Tgt Ion: 93 Resp: 2032
Ion Ratio Lower Upper
93 100
63 63.0 50.4 75.6
95 32.1 25.7 38.5





#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

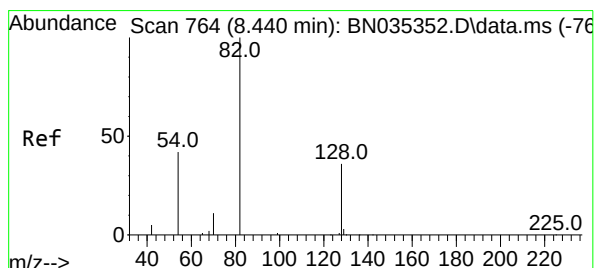
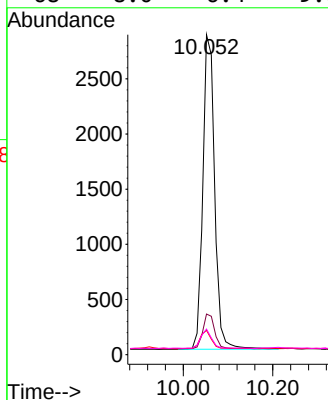
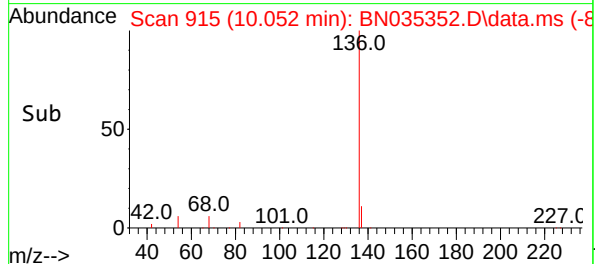
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

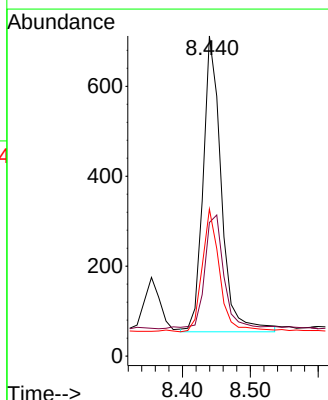
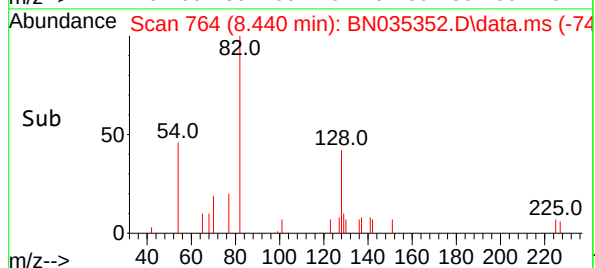
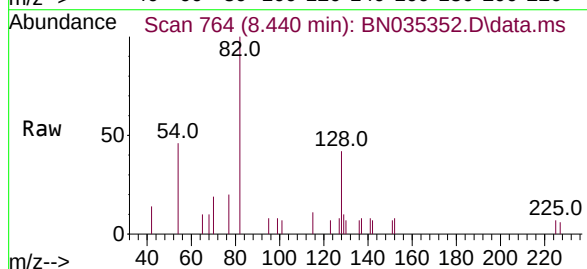
Manual Integrations
APPROVED

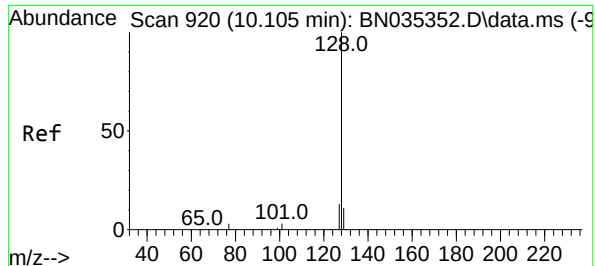
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1





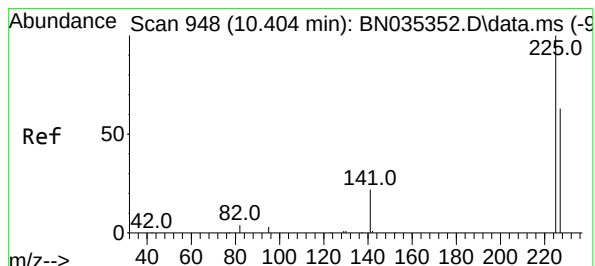
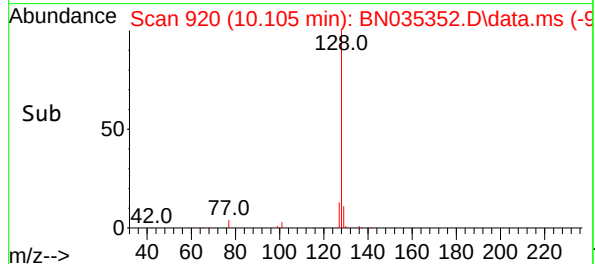
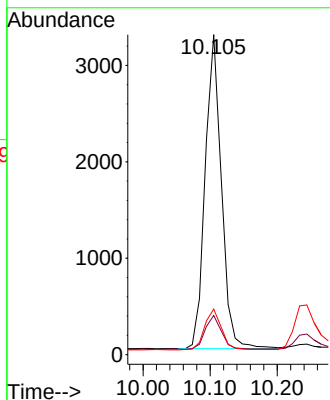
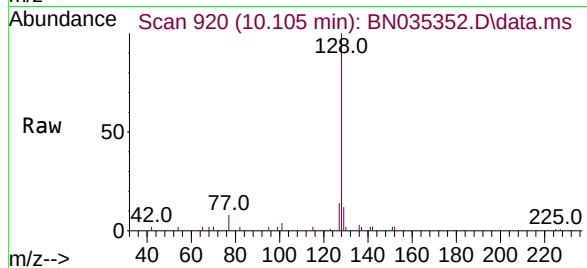
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

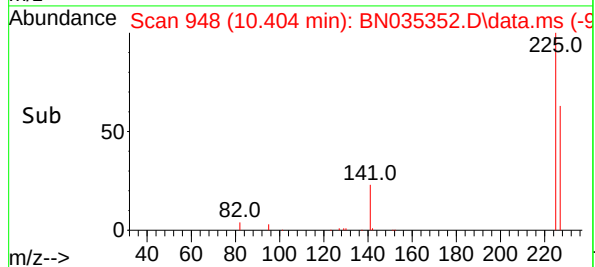
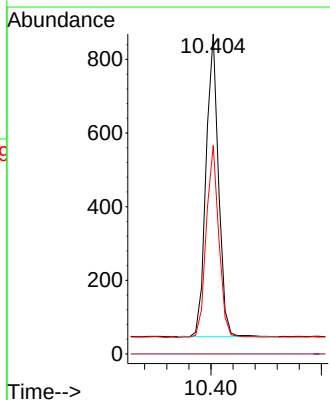
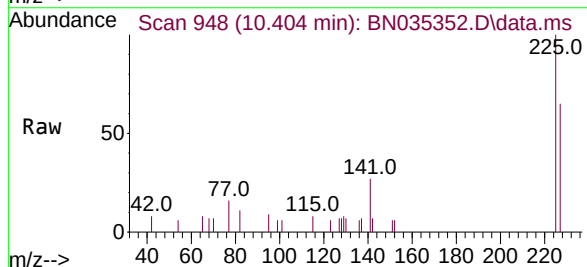
Manual Integrations
APPROVED

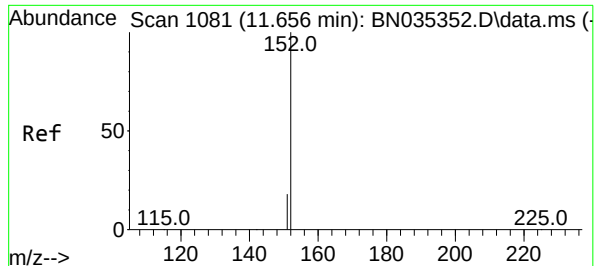
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





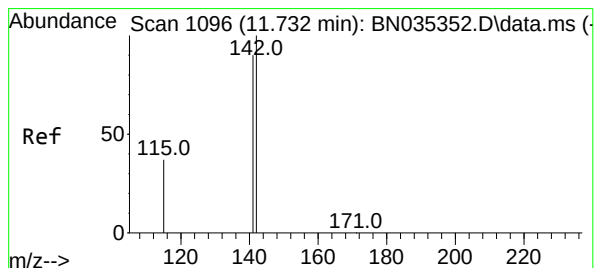
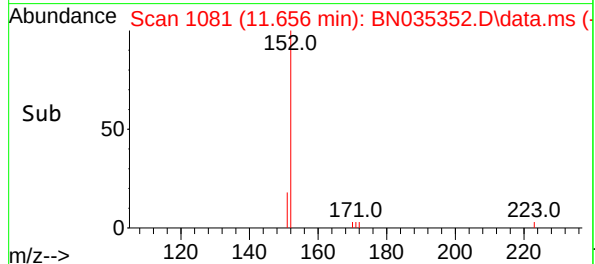
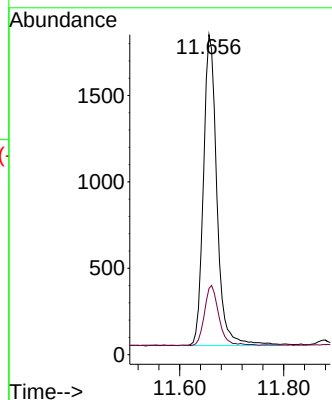
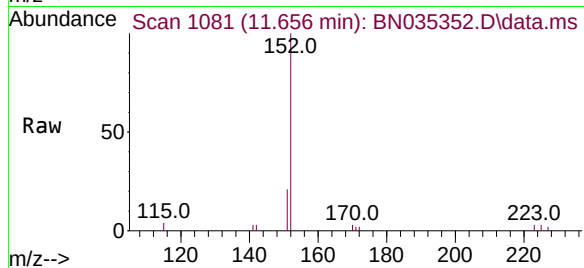
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 323
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

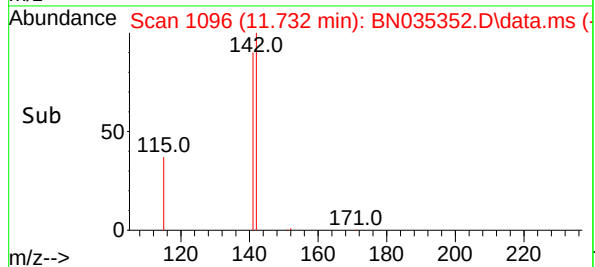
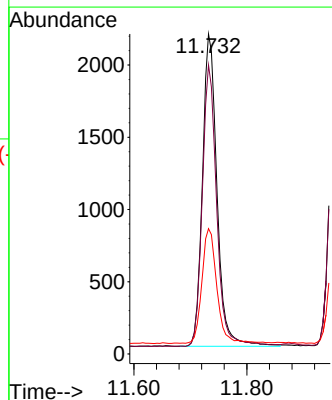
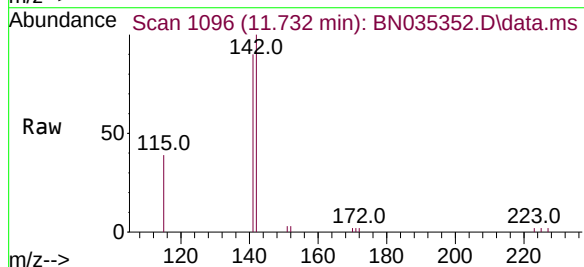
Manual Integrations
APPROVED

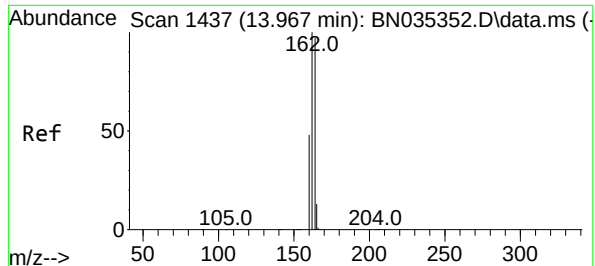
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

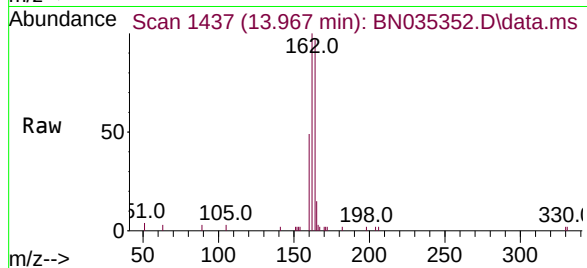
Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0





#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

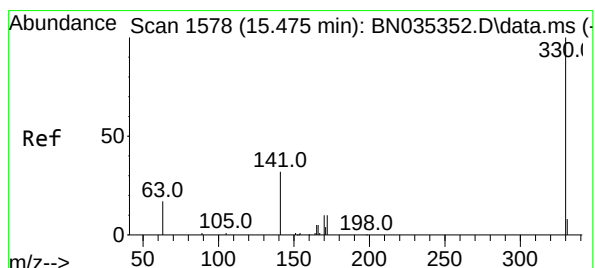
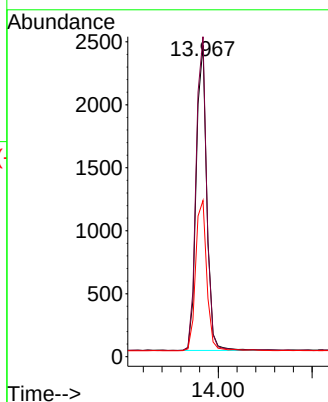
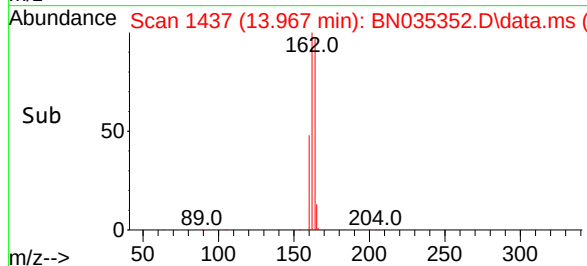
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



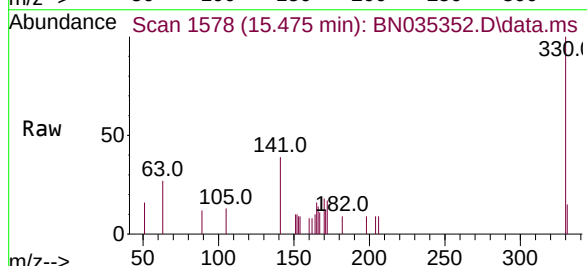
Tgt Ion:164 Resp: 3799
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 50.1 40.1 60.1

Manual Integrations
APPROVED

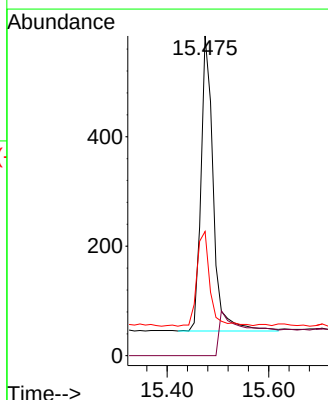
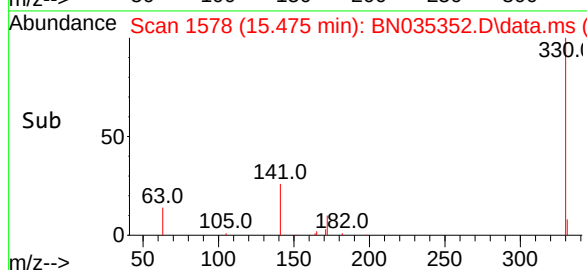
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

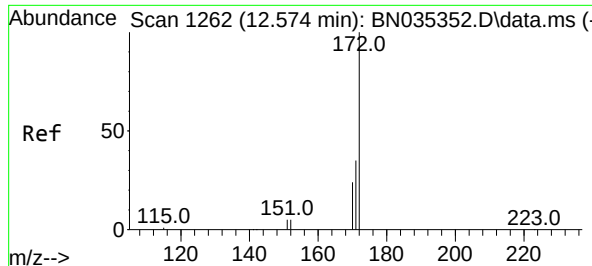


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



Tgt Ion:330 Resp: 975
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.372 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

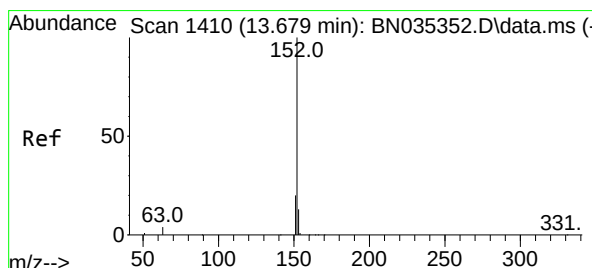
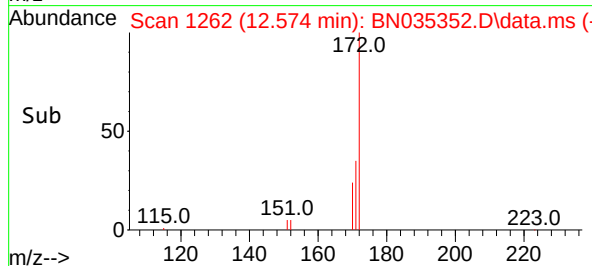
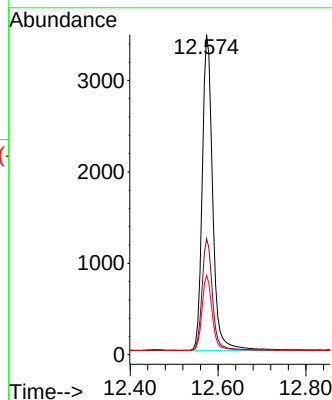
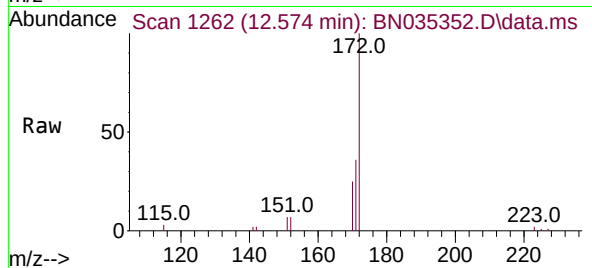
Tgt Ion:	172	Resp:	573
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.373 ng

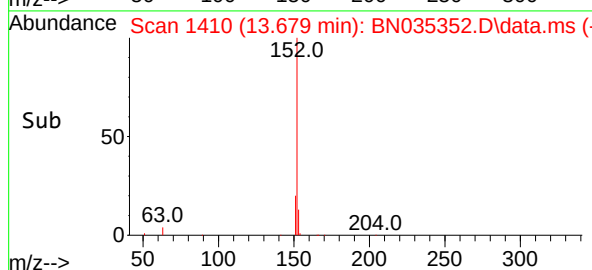
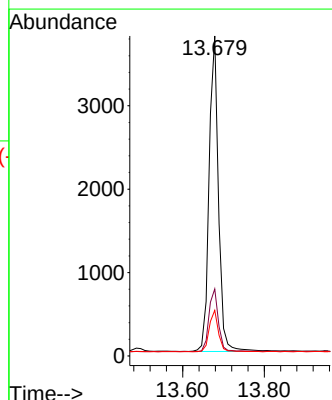
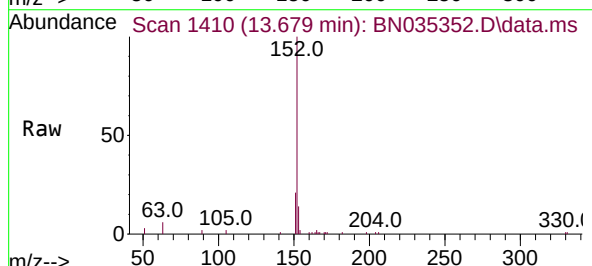
RT: 13.679 min Scan# 1410

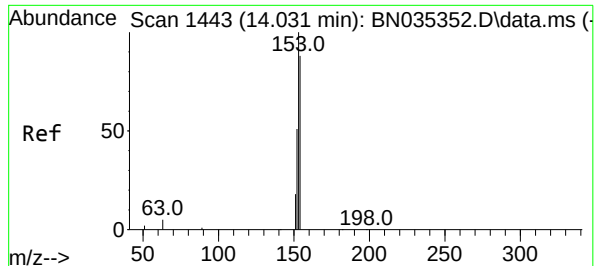
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	152	Resp:	6058
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6





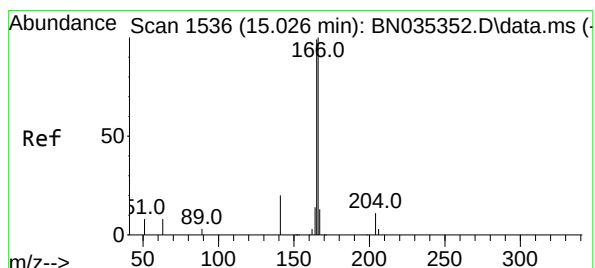
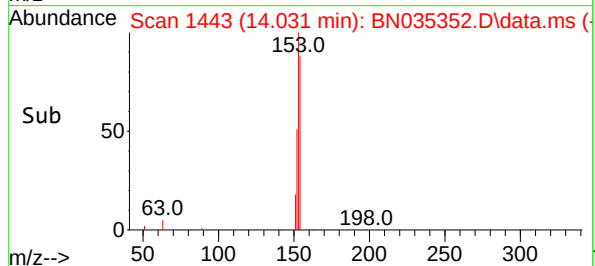
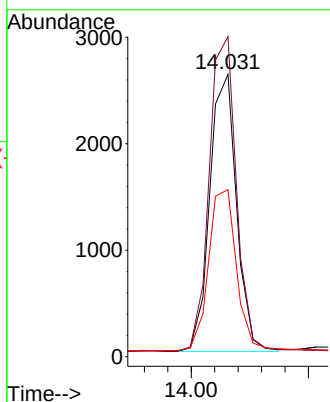
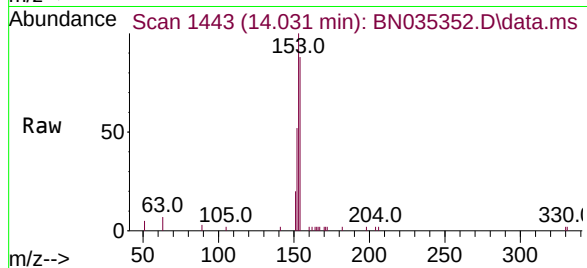
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

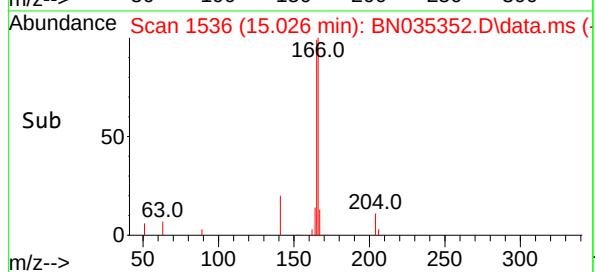
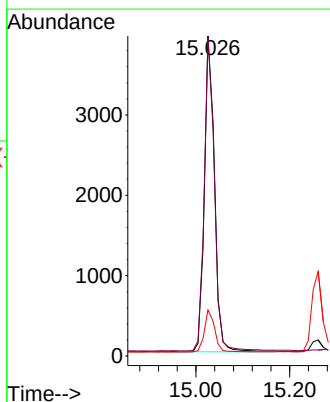
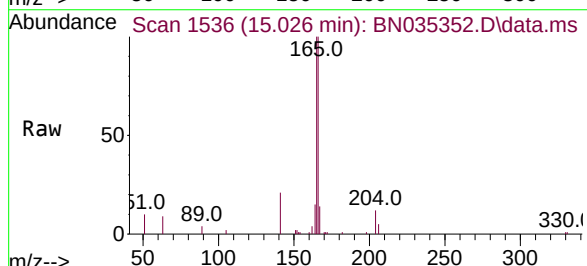
Manual Integrations
APPROVED

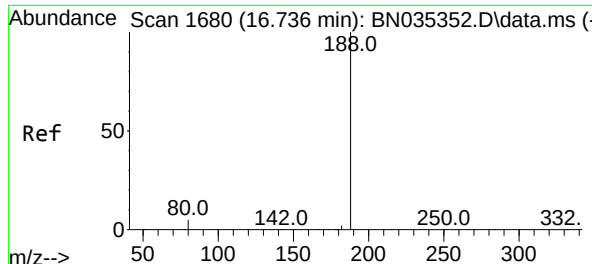
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863
Ion Ratio Lower Upper
166 100
165 99.6 79.7 119.5
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1680

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

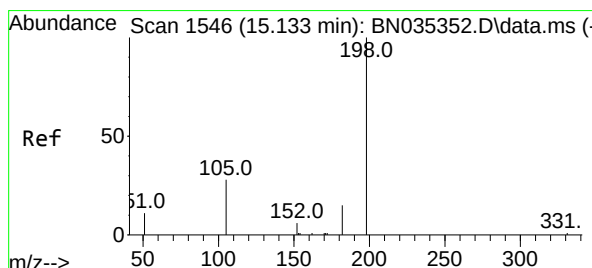
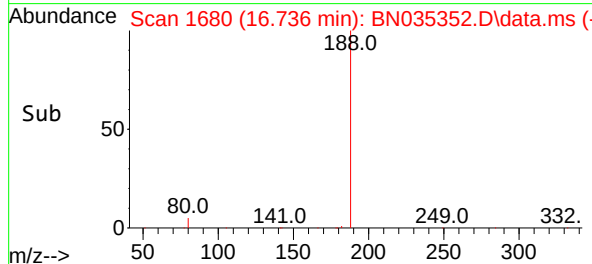
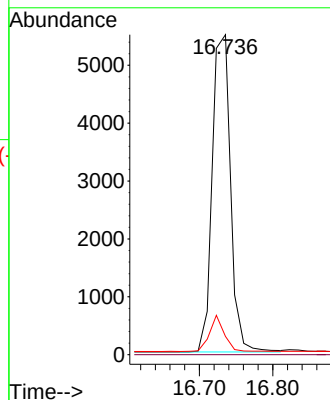
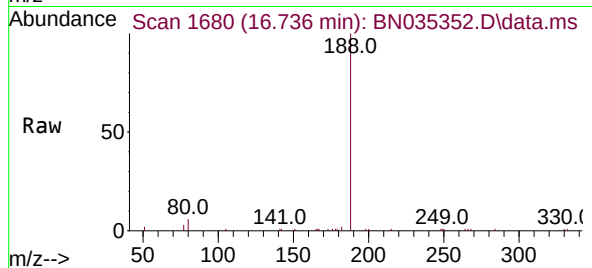
80 5.7 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

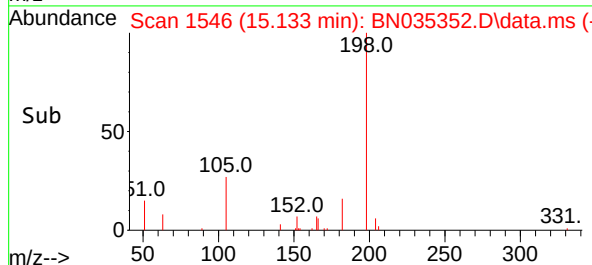
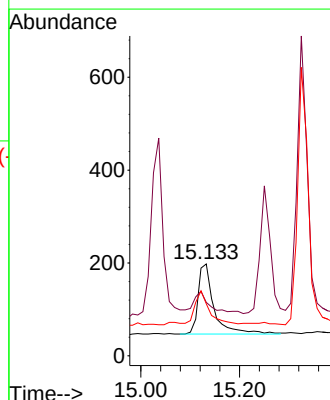
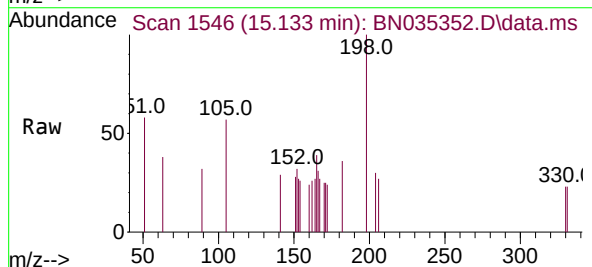
Tgt Ion:198 Resp: 337

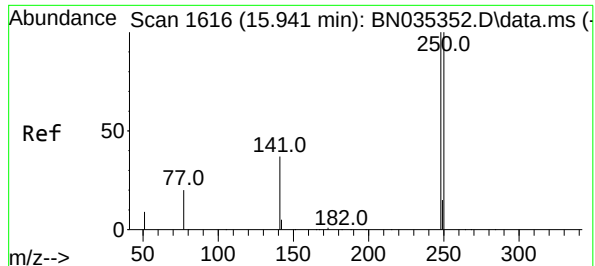
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9





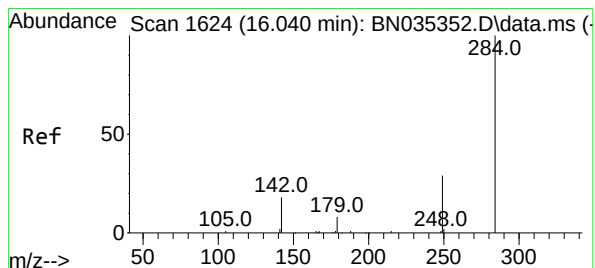
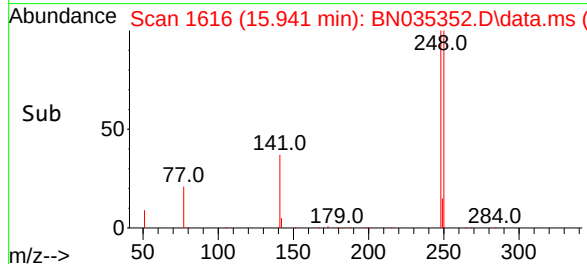
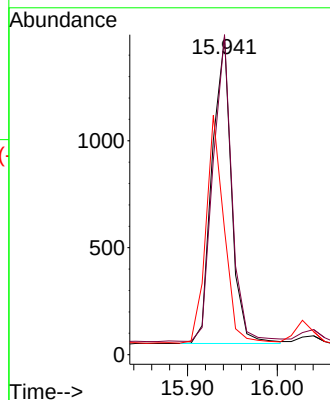
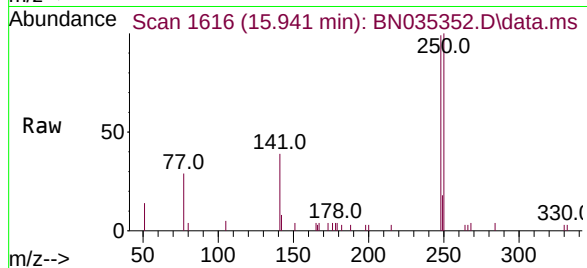
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

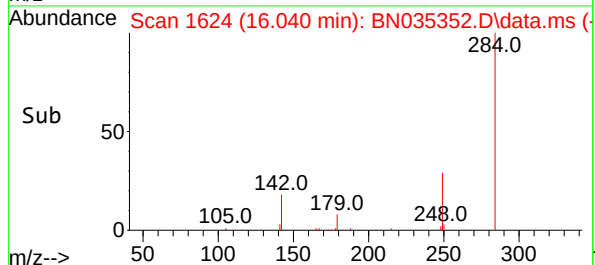
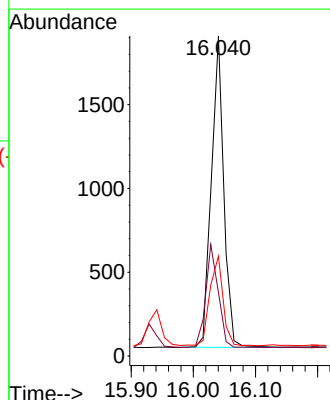
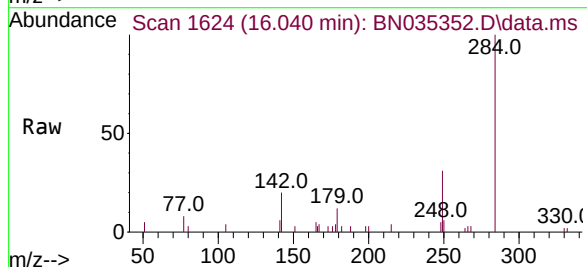
Manual Integrations
APPROVED

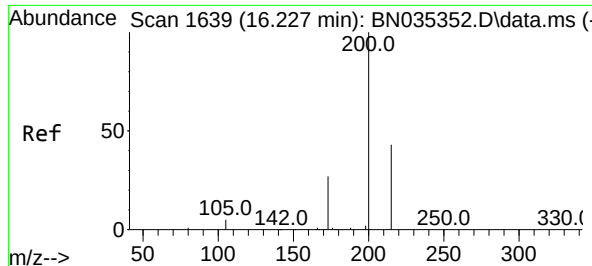
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

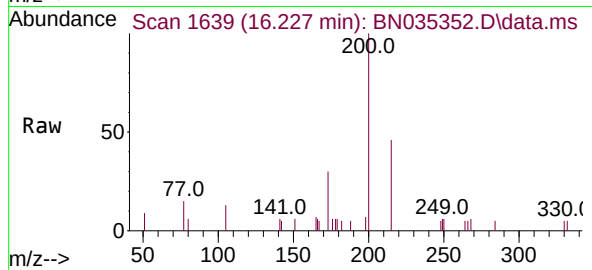
Tgt Ion:284 Resp: 2590
Ion Ratio Lower Upper
284 100
142 33.4 26.7 40.1
249 30.7 24.6 36.8





#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

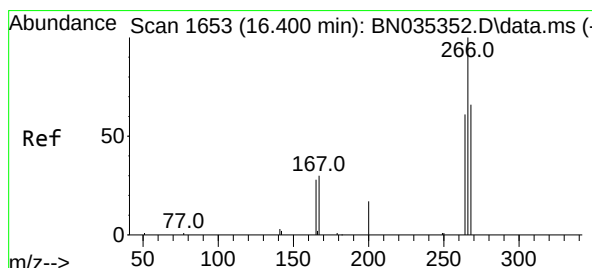
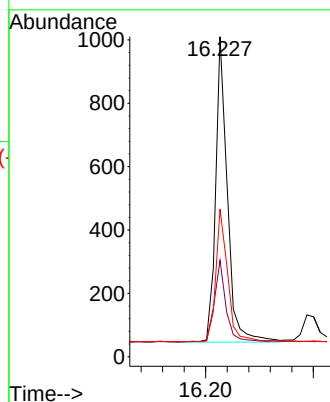
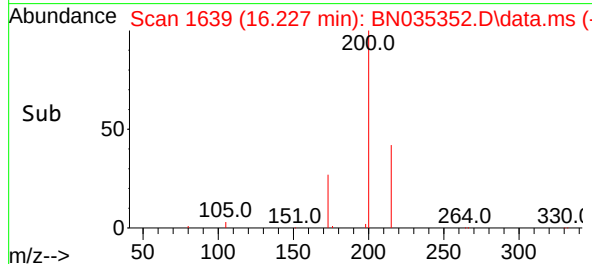
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

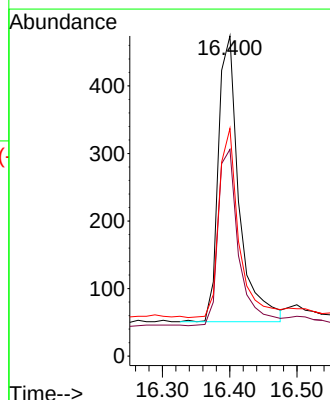
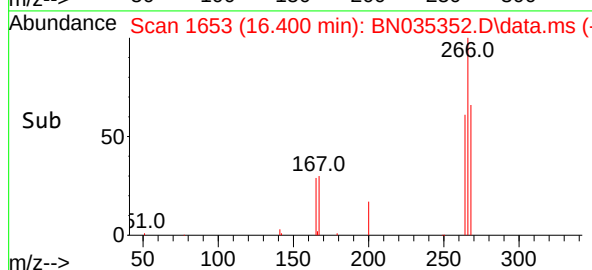
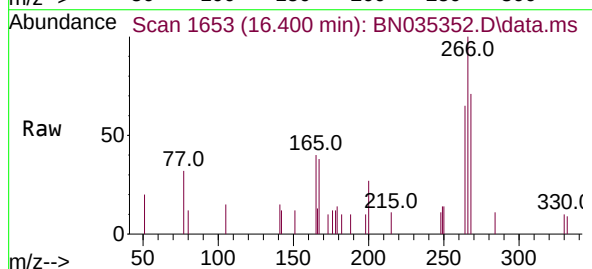
Manual Integrations
APPROVED

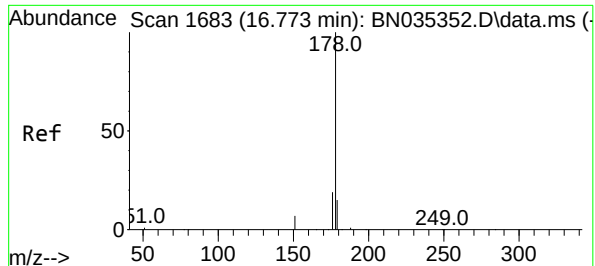
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906
Ion Ratio Lower Upper
266 100
264 62.4 42.3 63.5
268 63.8 43.3 64.9





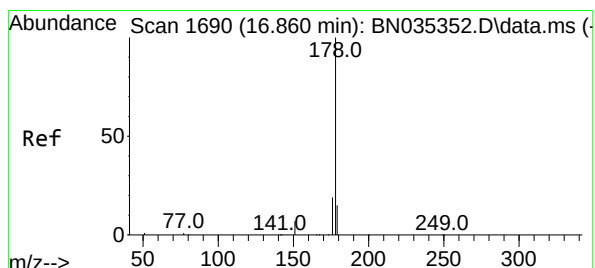
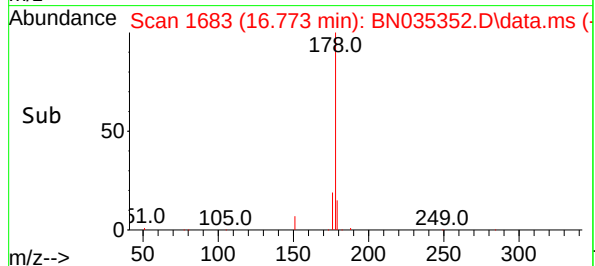
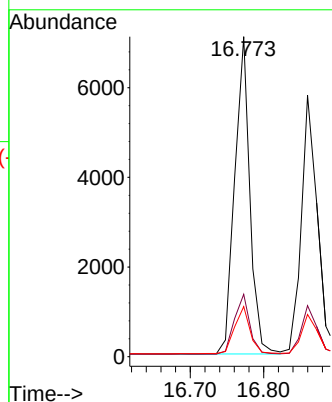
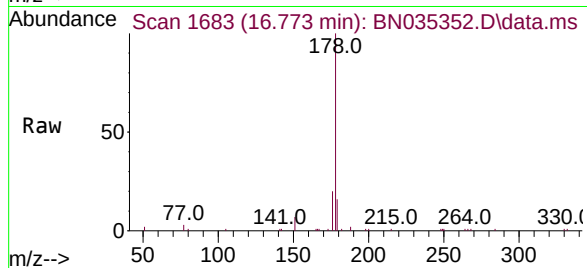
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

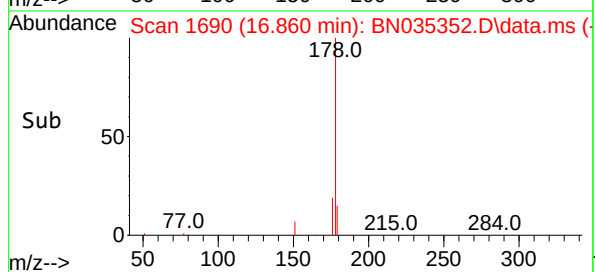
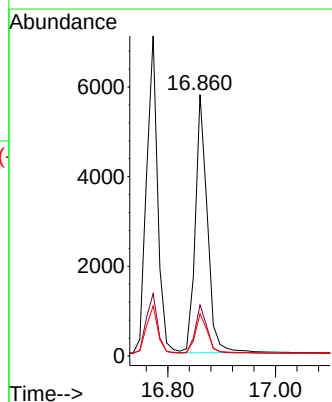
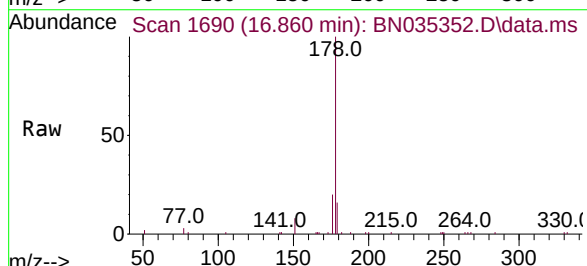
Manual Integrations
APPROVED

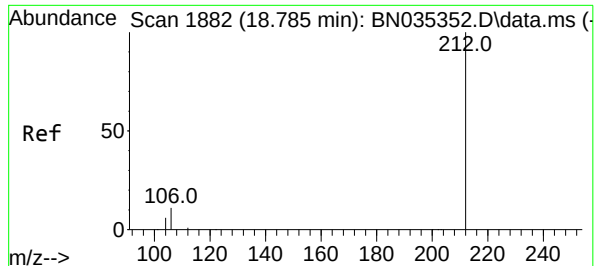
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

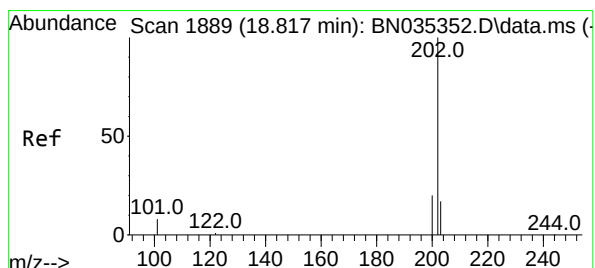
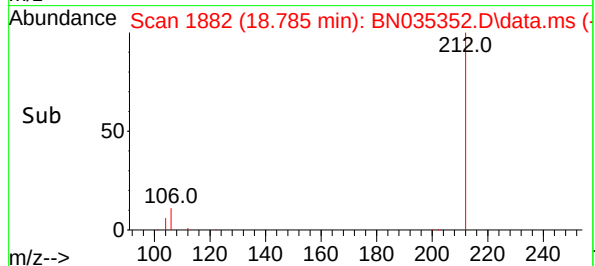
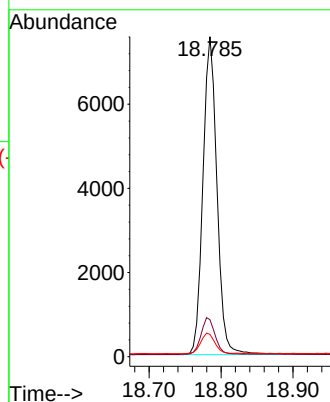
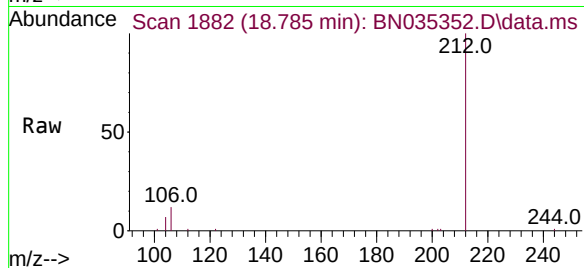
SSTDICCC0.4

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

APPROVED

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



#28

Fluoranthene

Concen: 0.391 ng

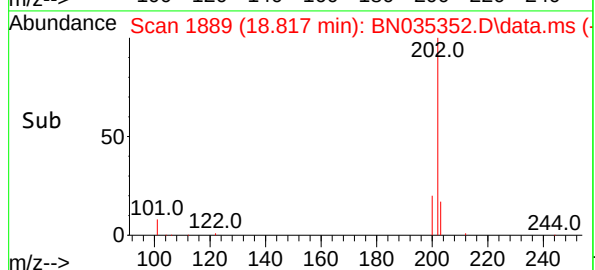
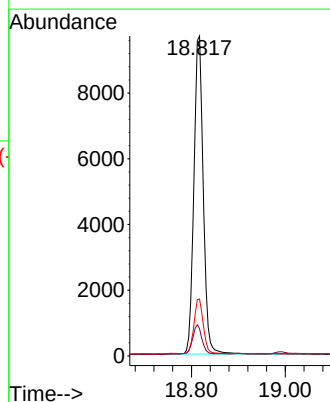
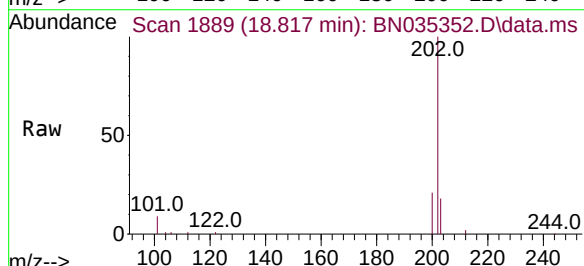
RT: 18.817 min Scan# 1889

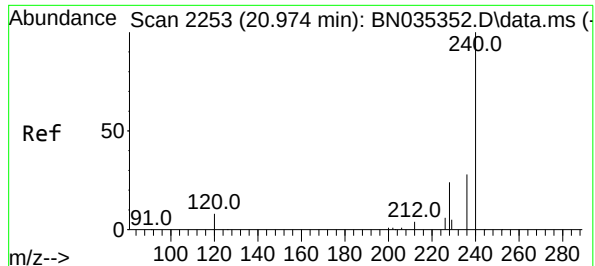
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	202	Resp:	13438
Ion Ratio	Lower	Upper	
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

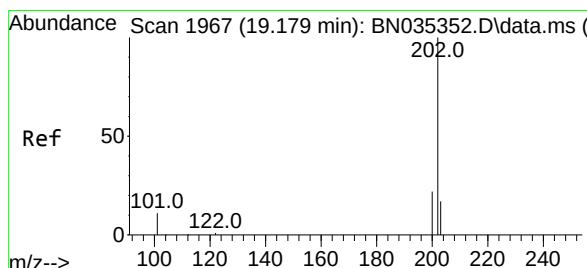
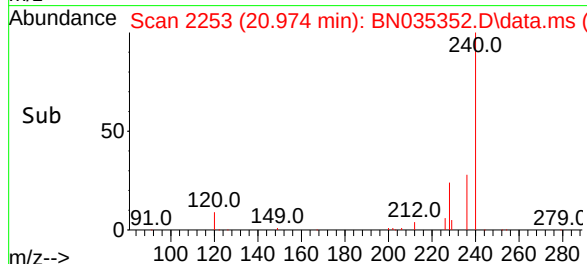
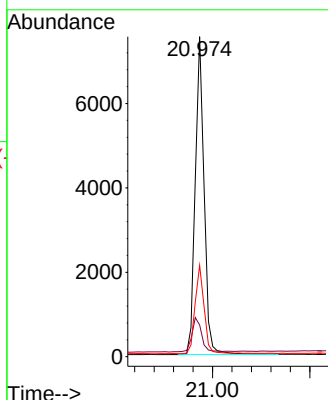
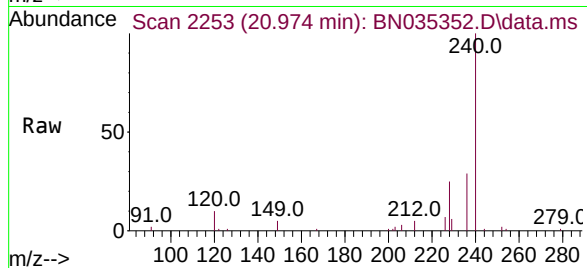
Tgt Ion:	240	Resp:	952
Ion Ratio	Lower	Upper	
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.443 ng

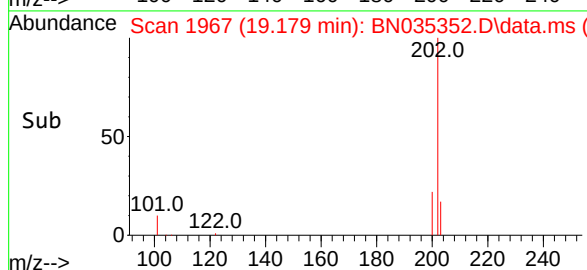
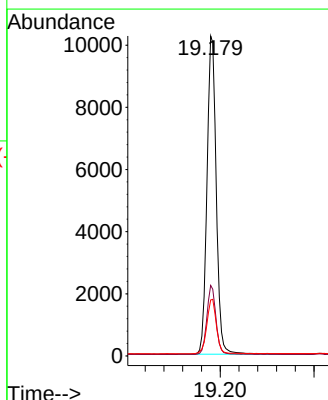
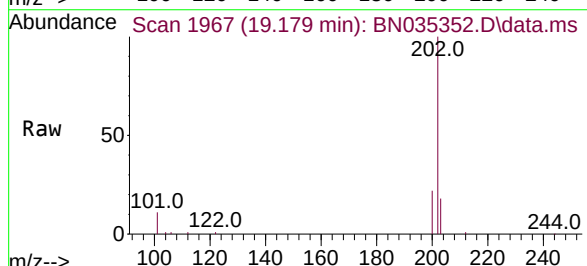
RT: 19.179 min Scan# 1967

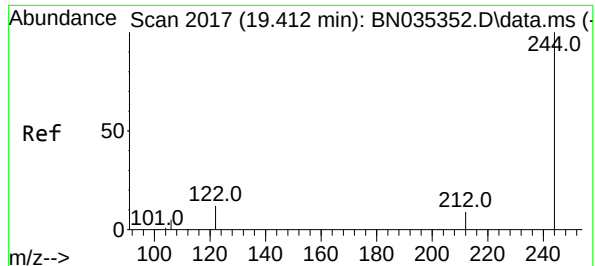
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	202	Resp:	14053
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5





#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

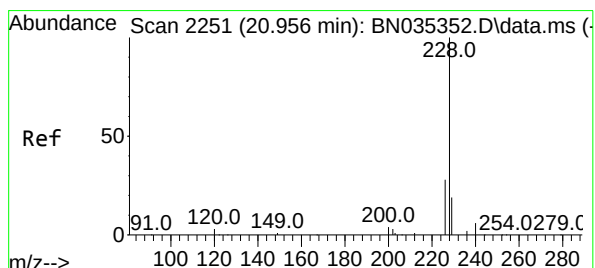
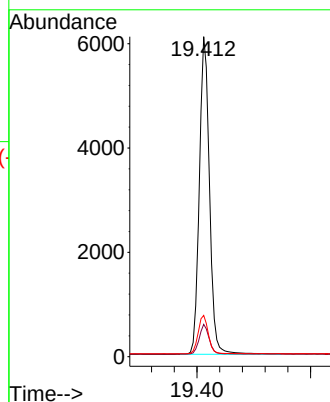
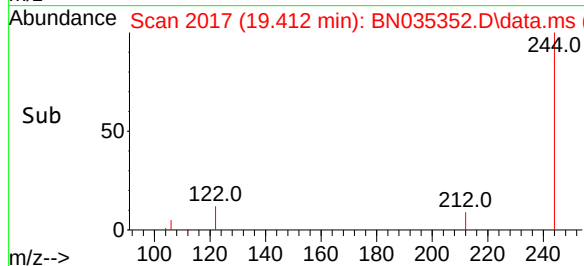
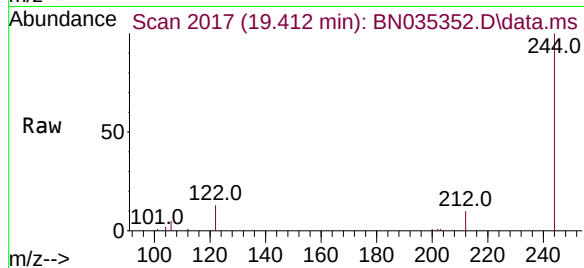
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

Manual Integrations

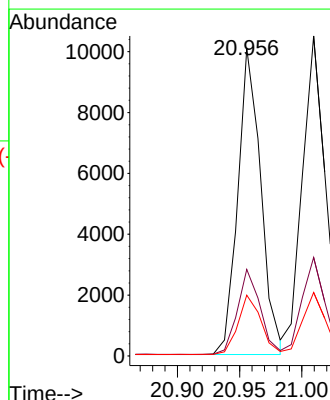
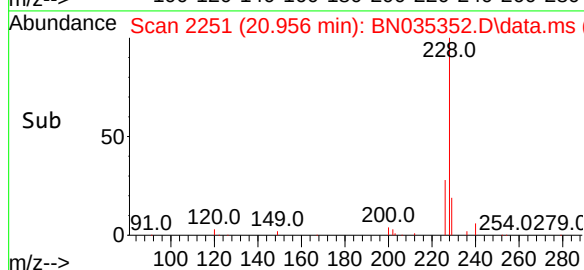
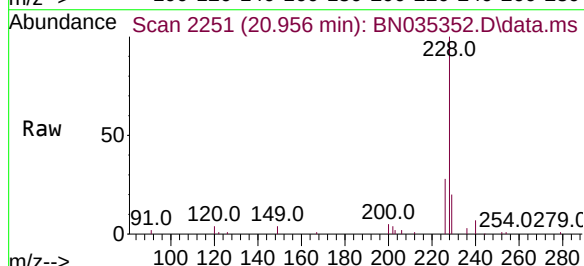
APPROVED

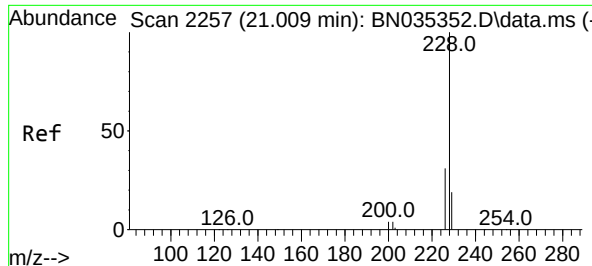
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion	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

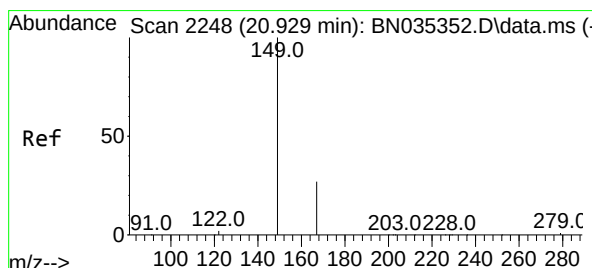
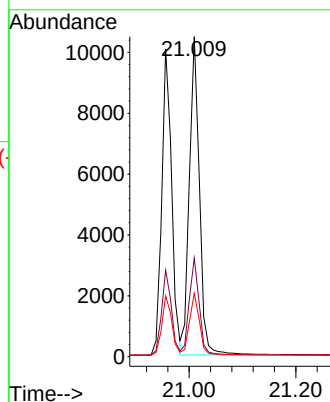
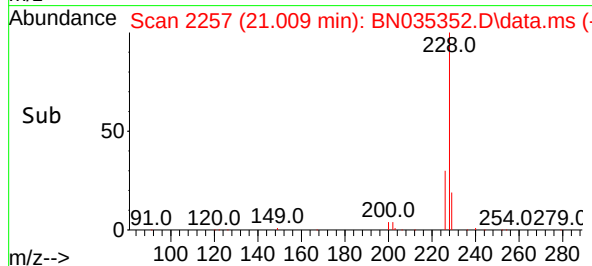
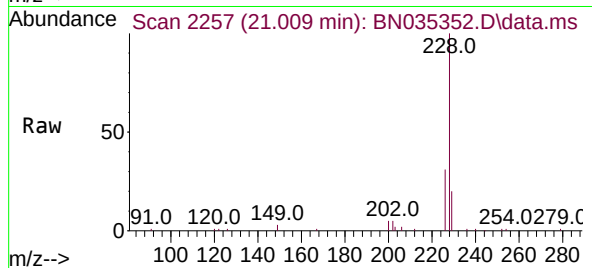
229 19.9 15.9 23.9

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

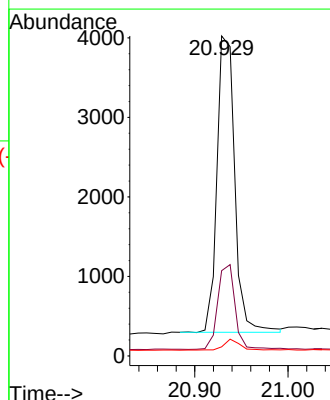
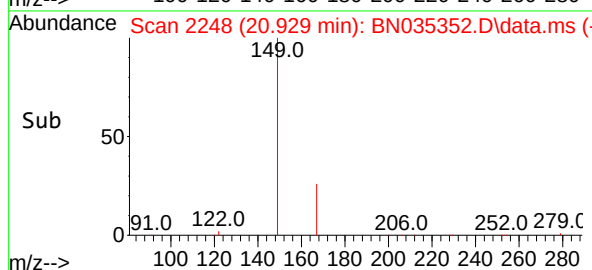
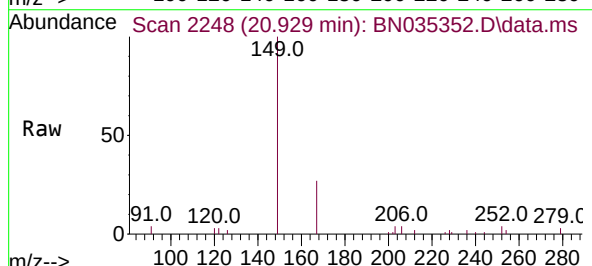
Tgt Ion:149 Resp: 4912

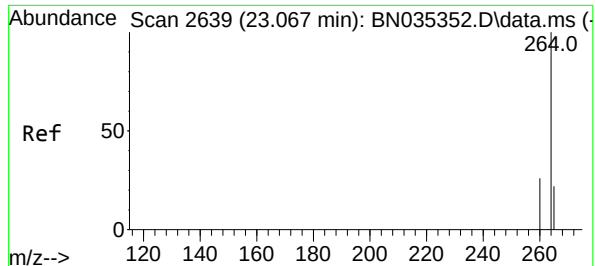
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.4 2.7 4.1





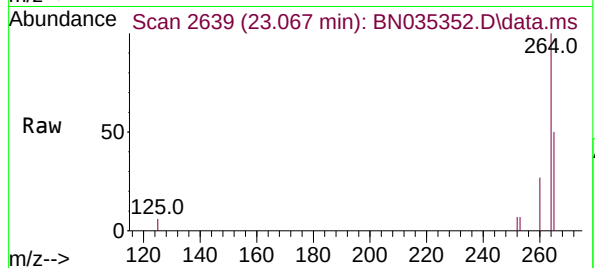
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

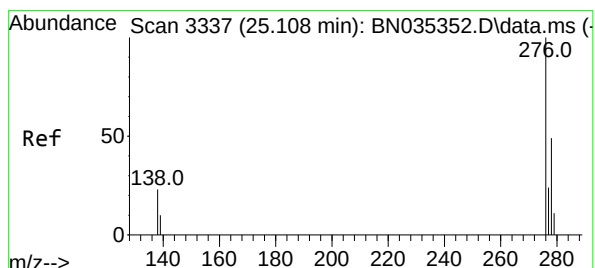
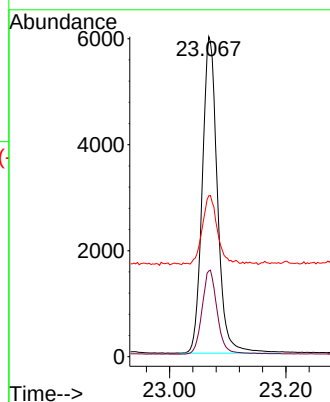
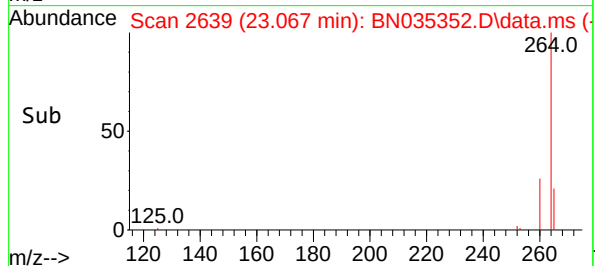


Tgt Ion:264 Resp: 1084
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 50.3 40.2 60.4

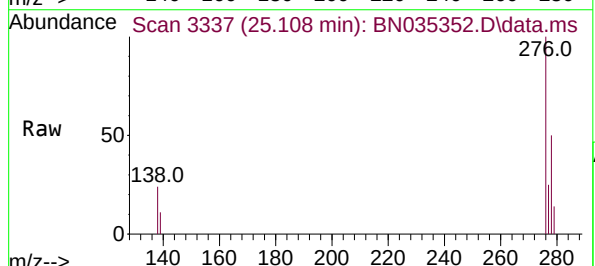
Manual Integrations

APPROVED

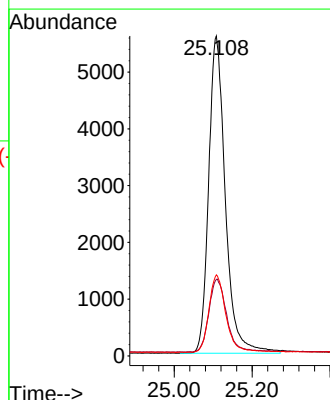
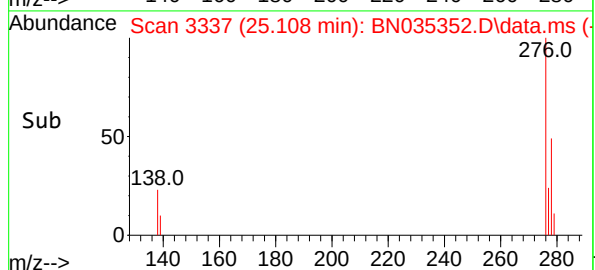
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

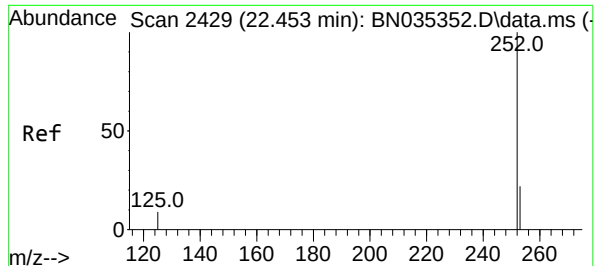


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



Tgt Ion:276 Resp: 16615
Ion Ratio Lower Upper
276 100
138 24.2 19.4 29.0
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 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

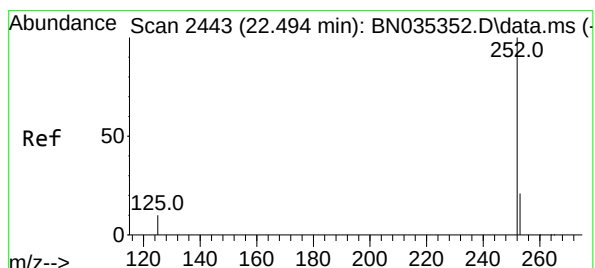
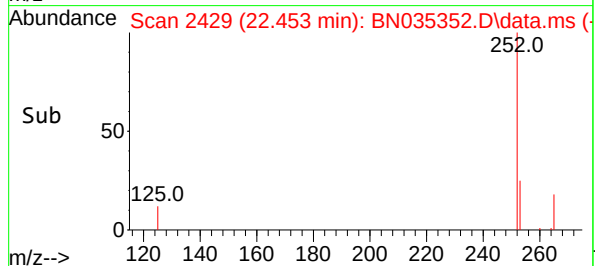
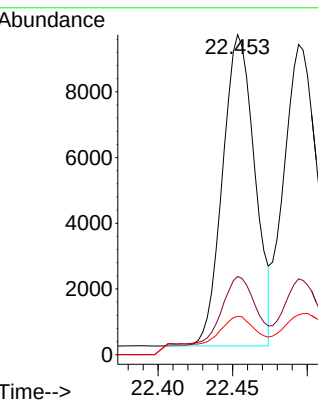
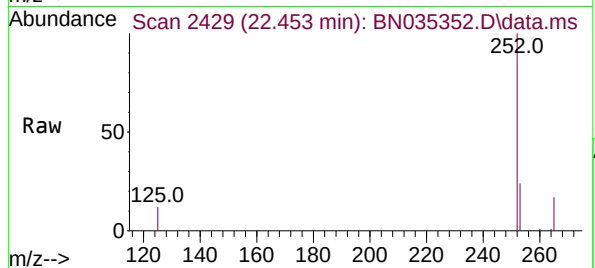
125 12.0 9.6 14.4

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

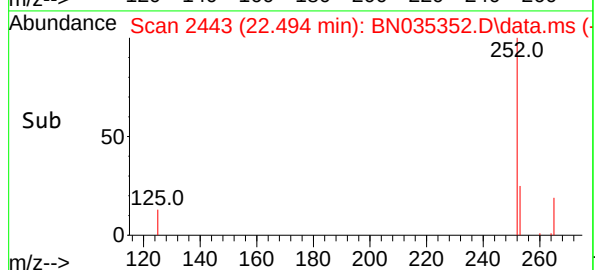
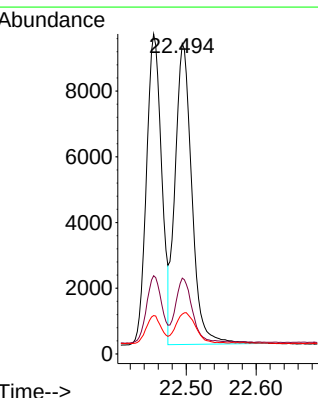
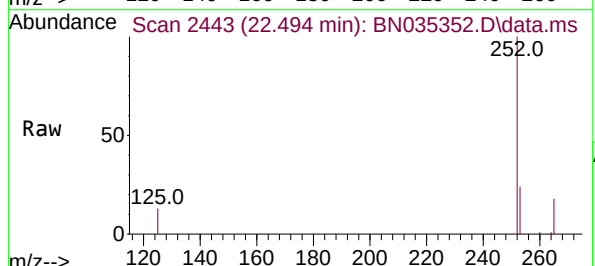
Tgt Ion:252 Resp: 15199

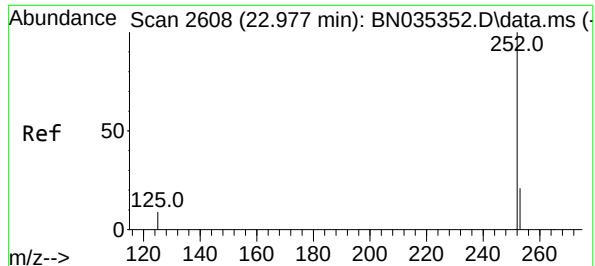
Ion Ratio Lower Upper

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 :

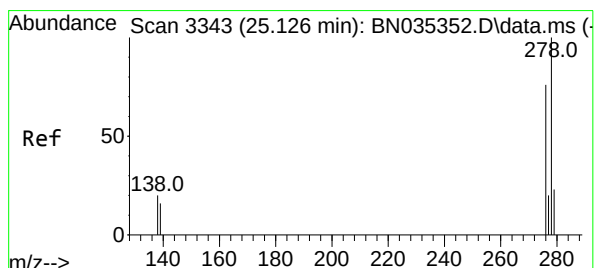
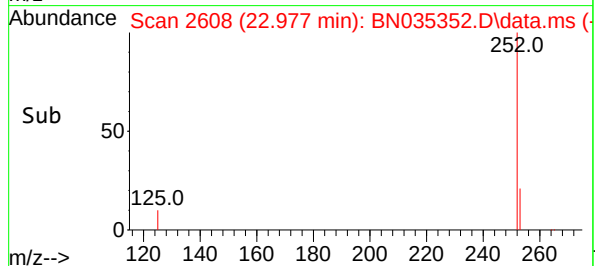
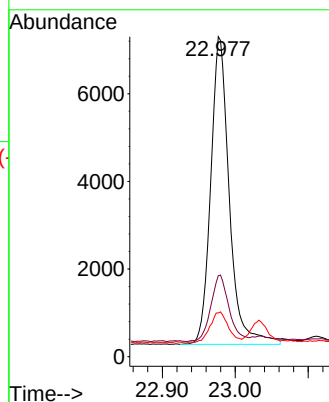
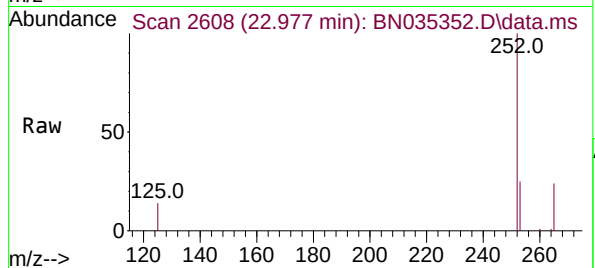
SSTDICCC0.4

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

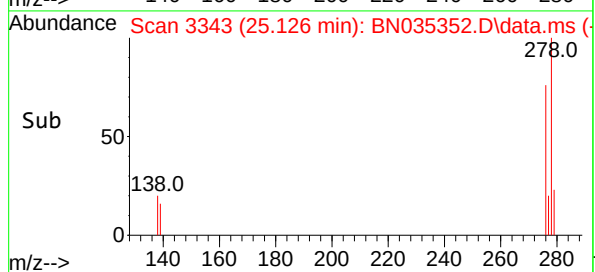
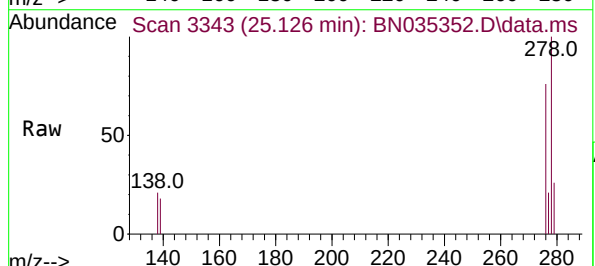
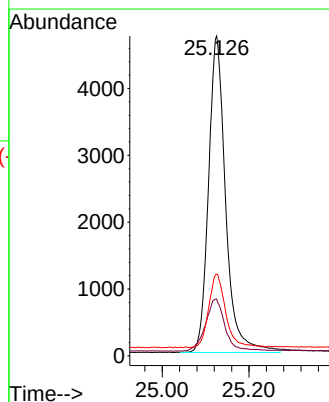
RT: 25.126 min Scan# 3343

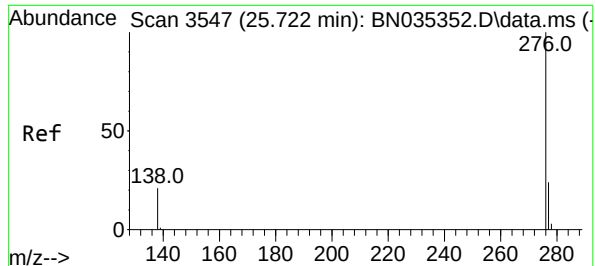
Delta R.T. 0.000 min

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

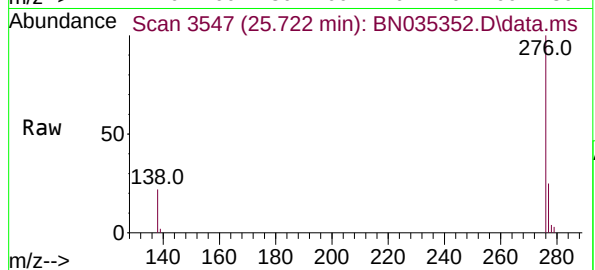
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

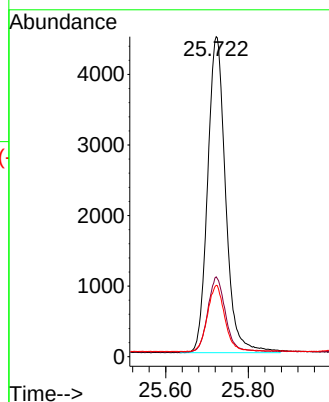
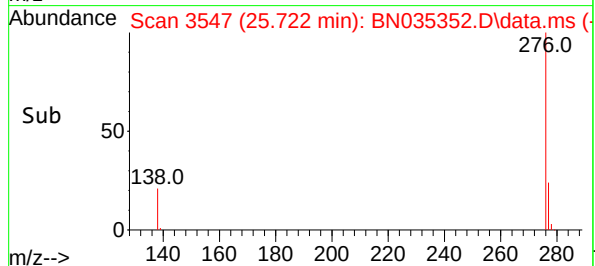
138 22.3 17.8 26.8

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)

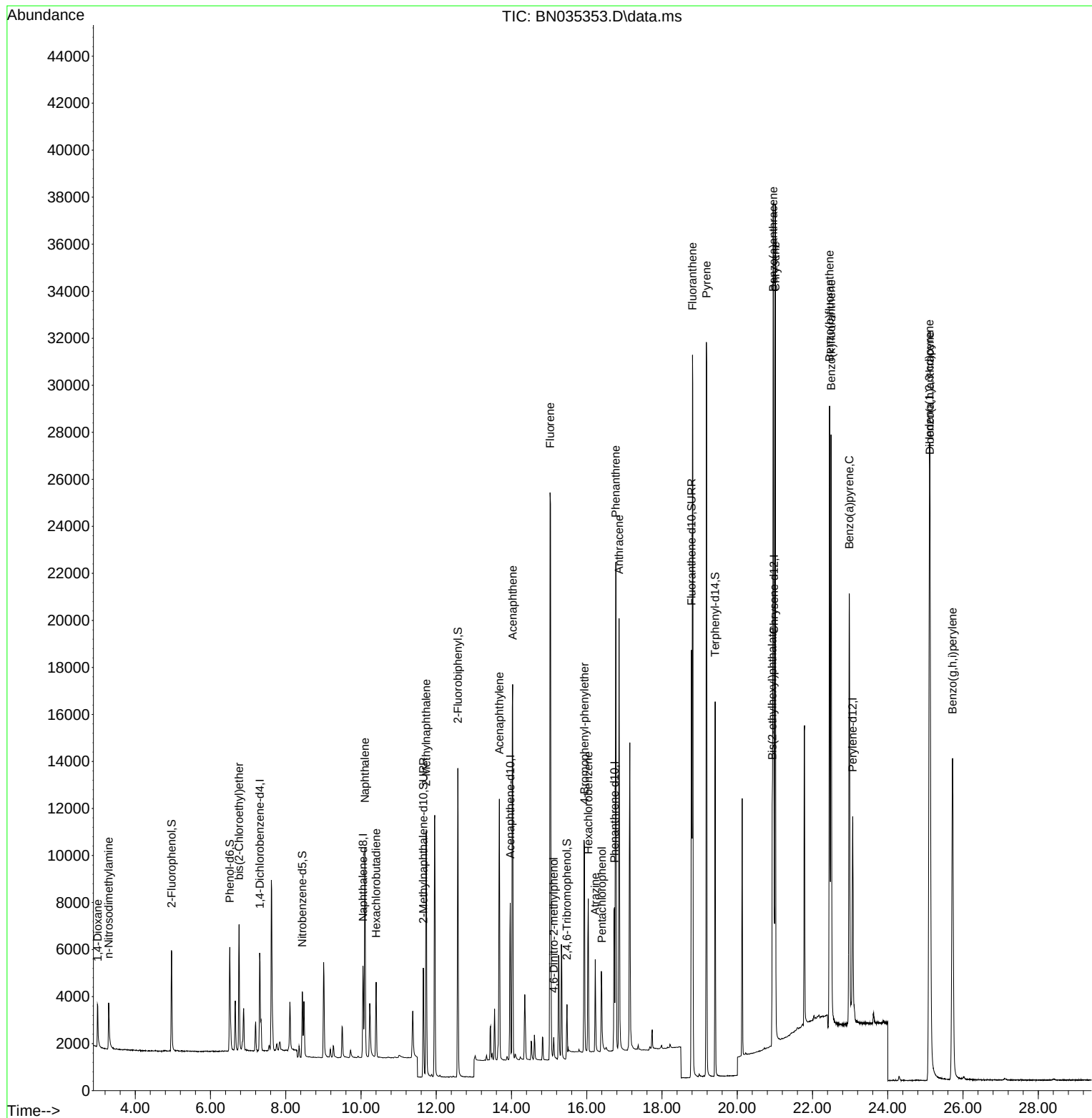
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng	0.00
35) Perylene-d12	23.067	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

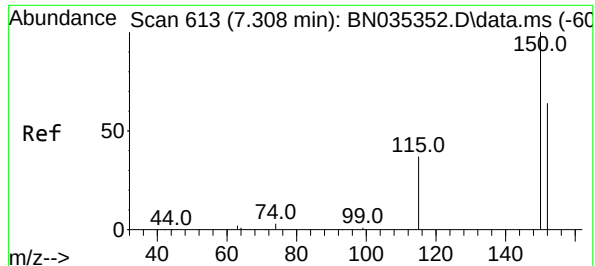
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

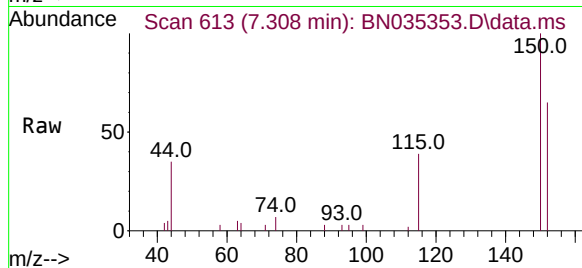
Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





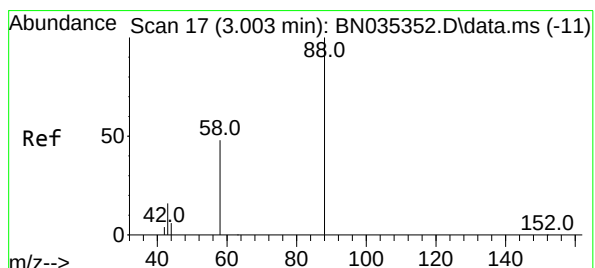
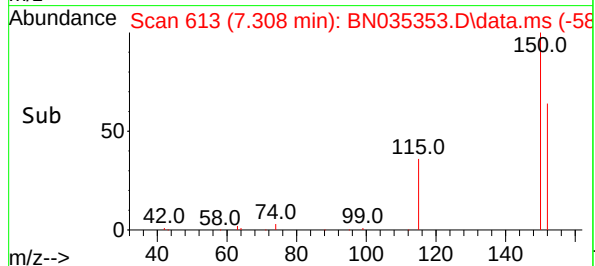
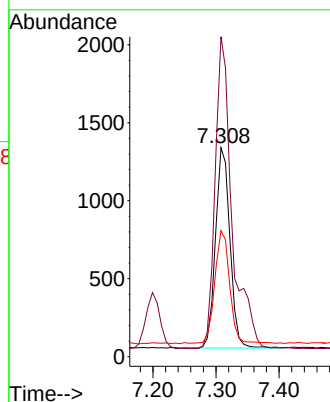
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 152 Resp: 2047

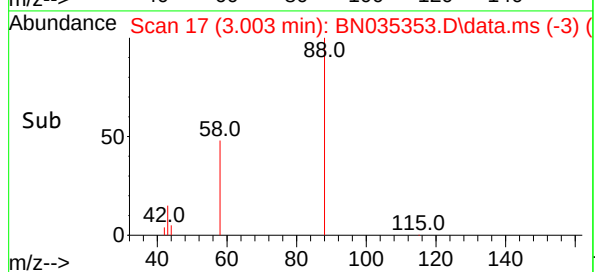
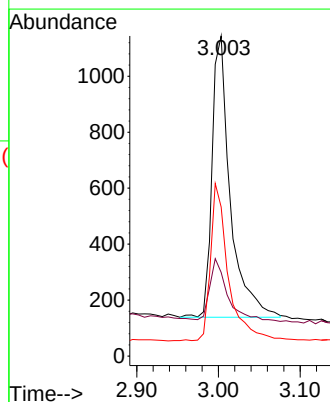
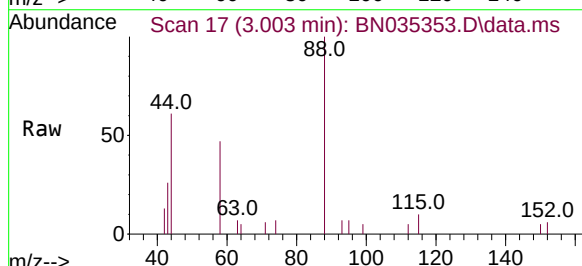
Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

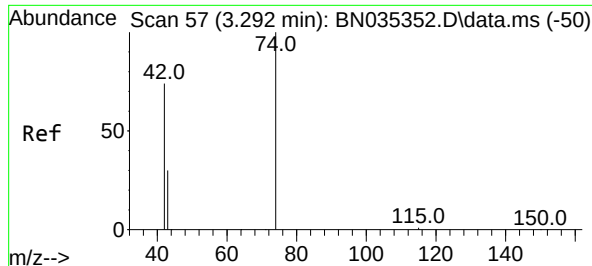


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

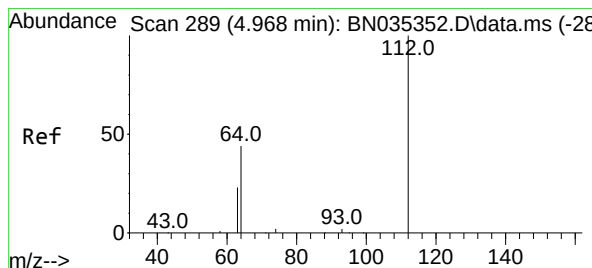
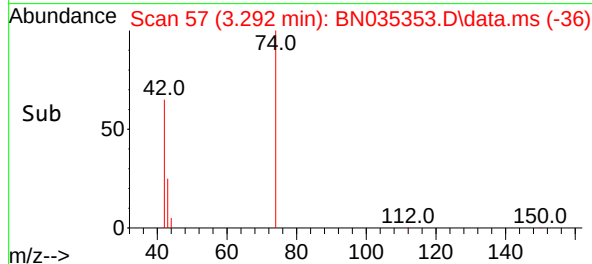
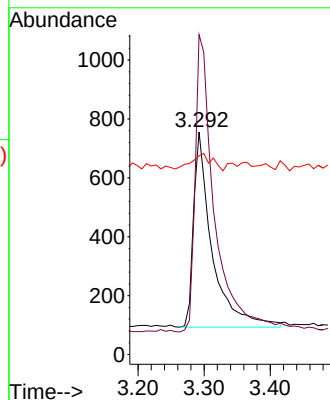
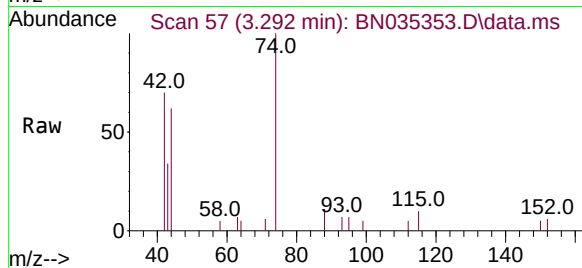




#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

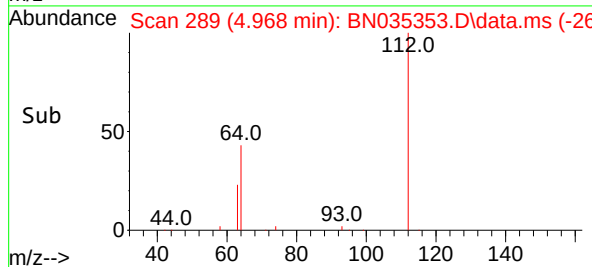
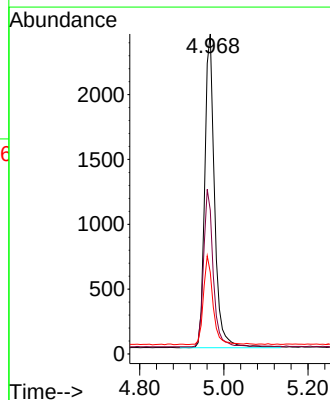
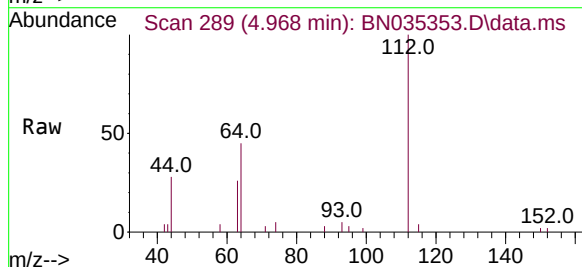
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

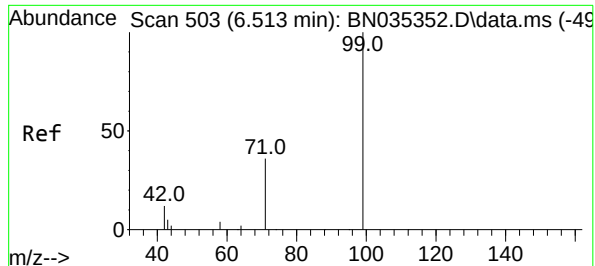
Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
74 158.7 124.9 187.3
44 9.8 2.2 3.4#



#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

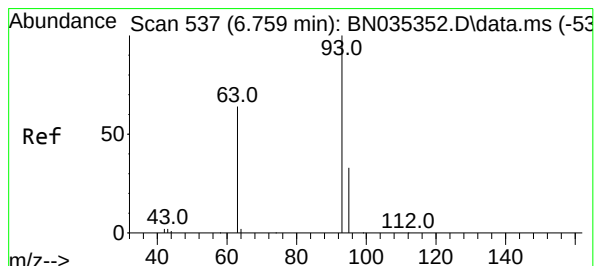
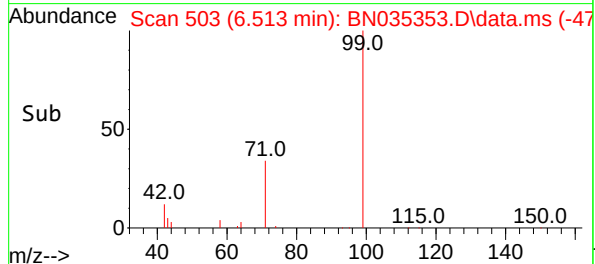
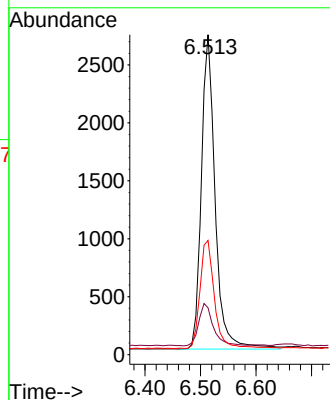
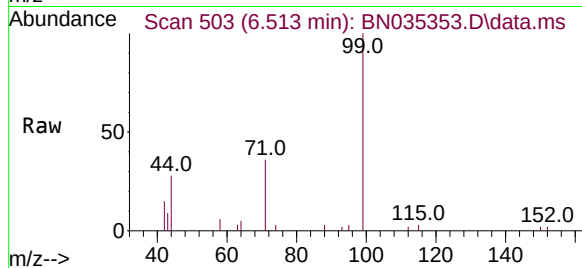




#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

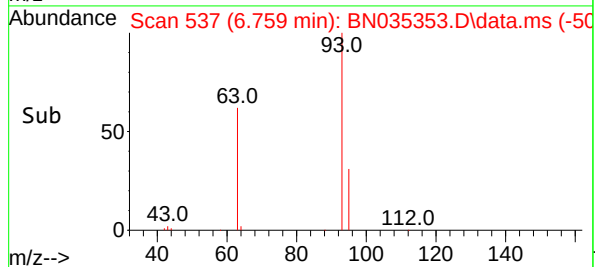
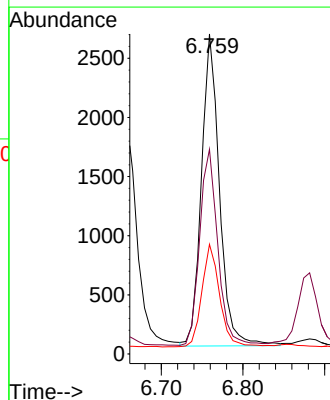
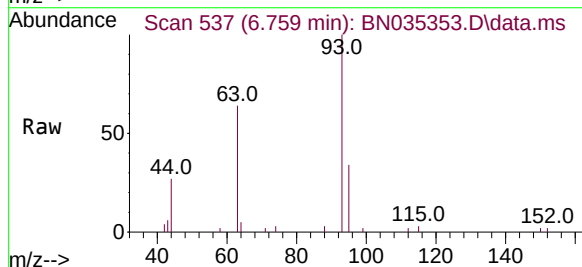
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

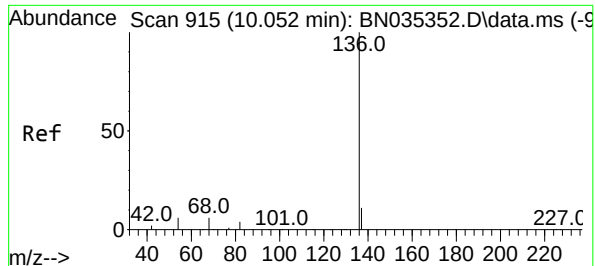
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9



#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

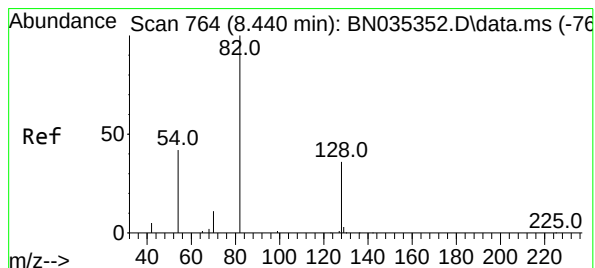
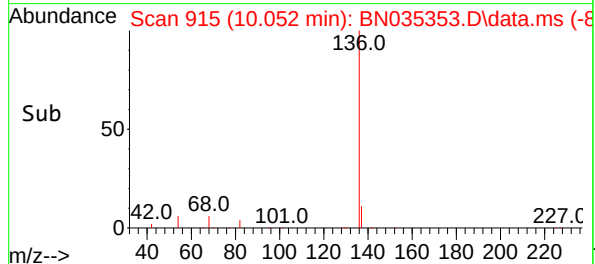
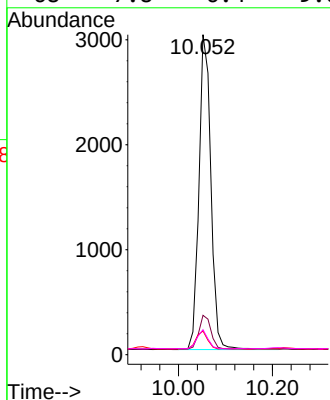
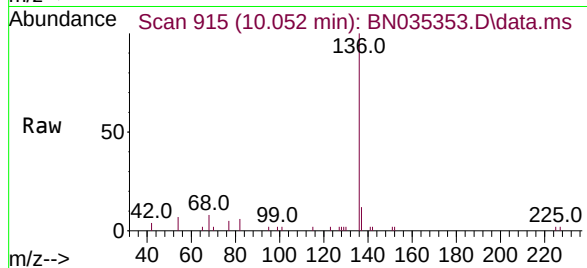




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

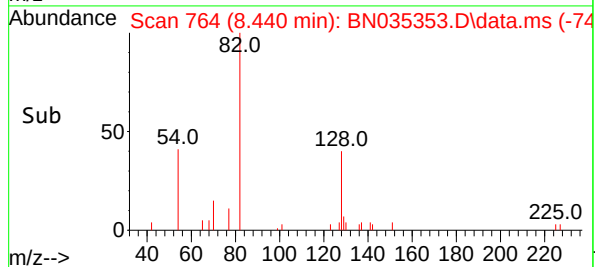
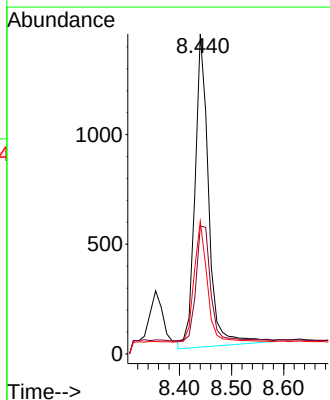
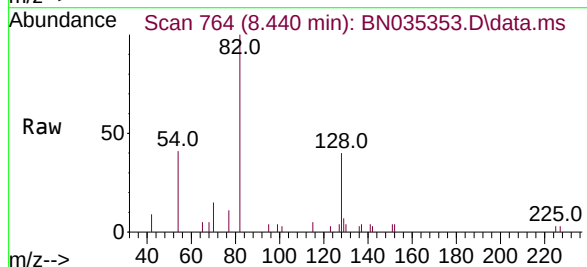
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

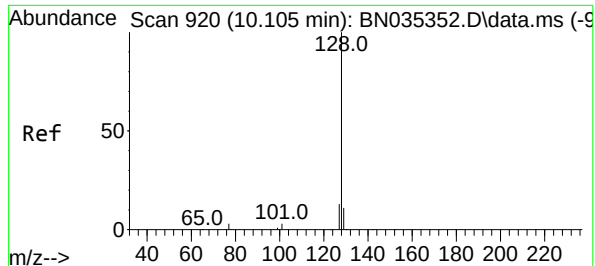
Tgt Ion:	136	Resp:	5308
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6



#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

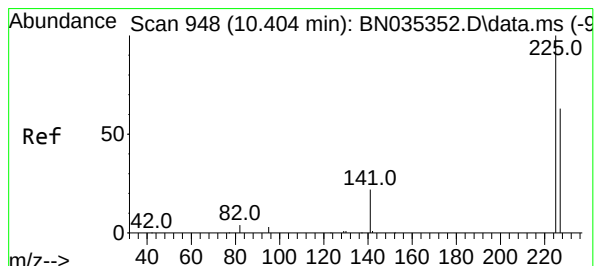
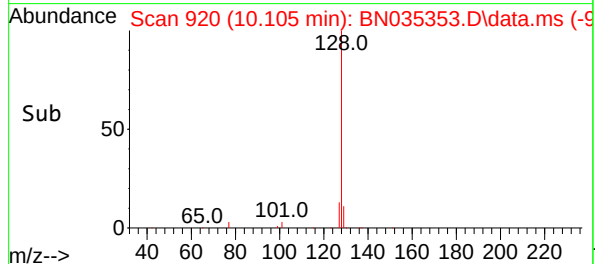
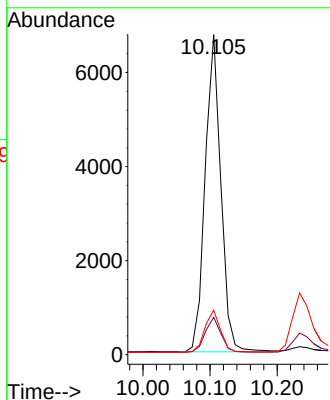
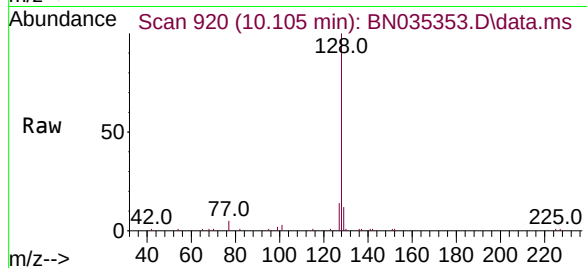




#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

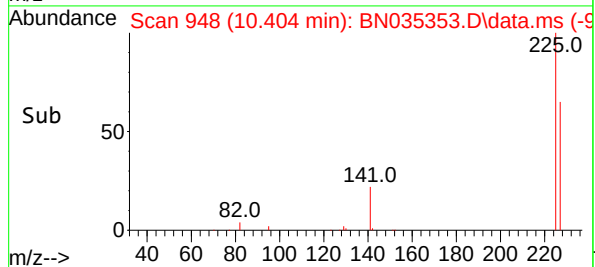
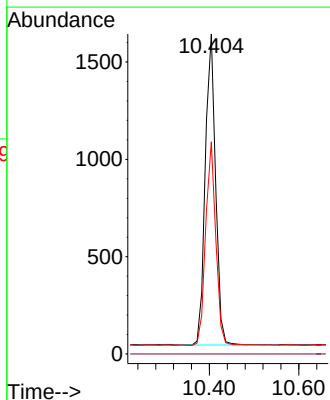
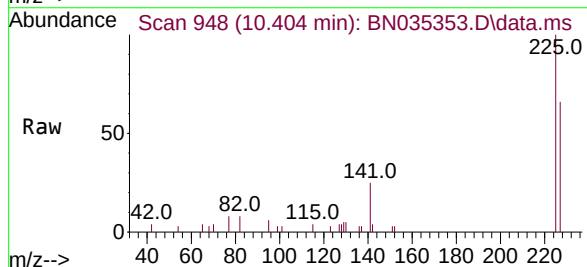
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

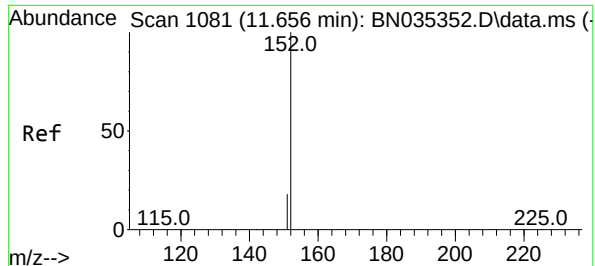
Tgt Ion:128 Resp: 10954
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 13.9 11.4 17.2



#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

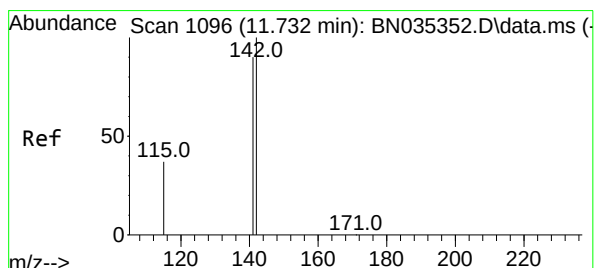
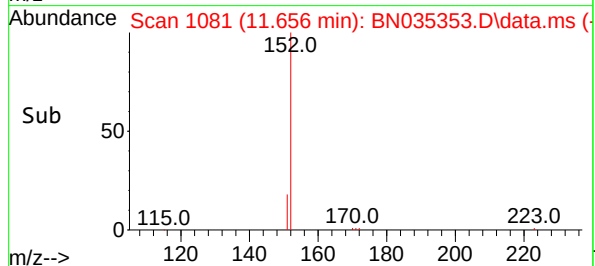
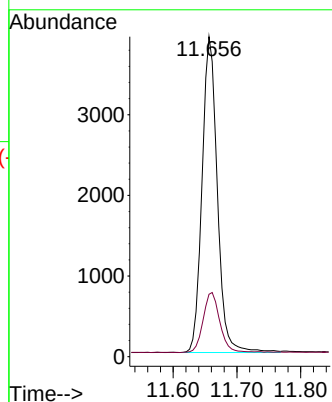
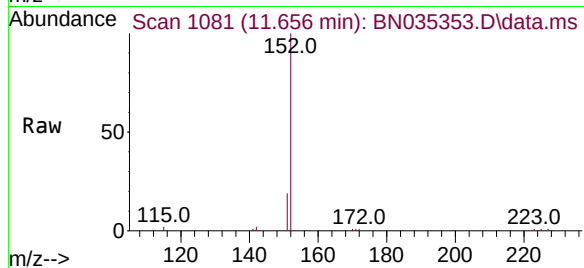




#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

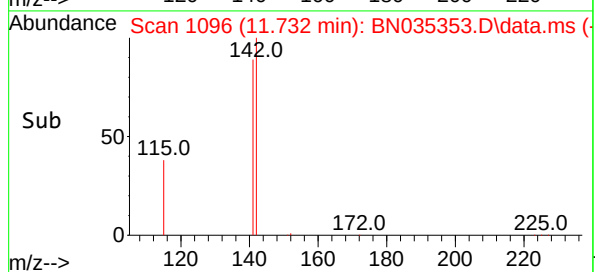
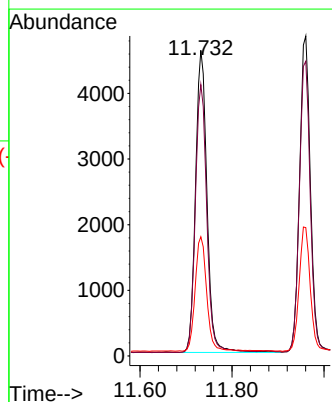
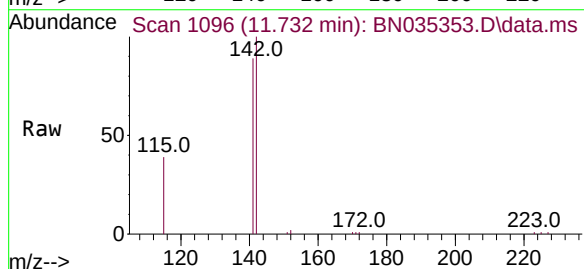
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

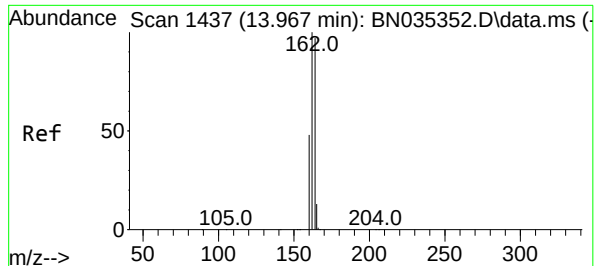
Tgt Ion:152 Resp: 6530
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

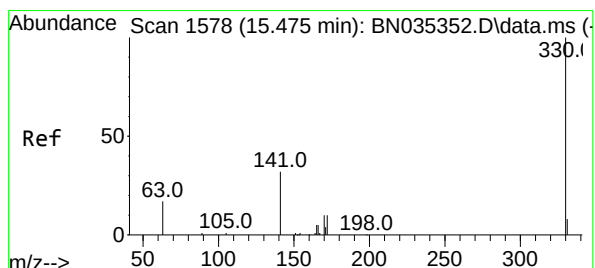
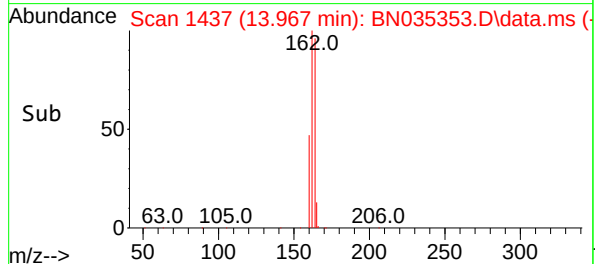
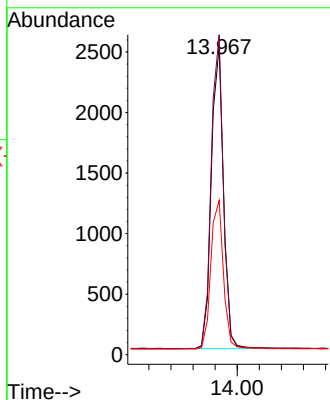
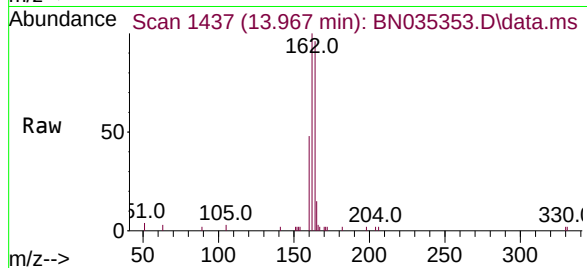




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

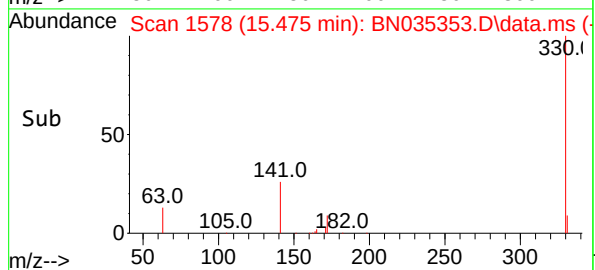
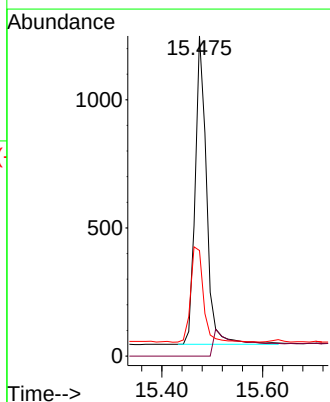
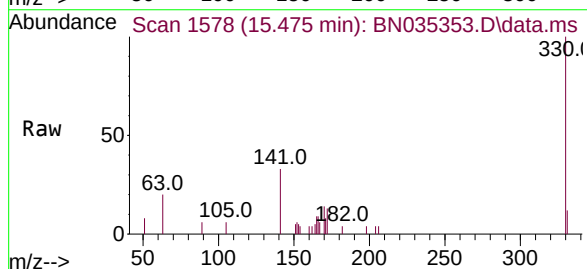
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

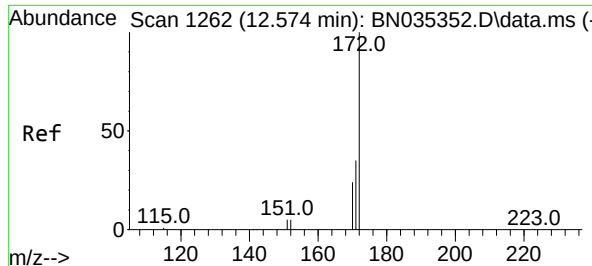
Tgt Ion:164 Resp: 3823
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.1 40.1 60.1



#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

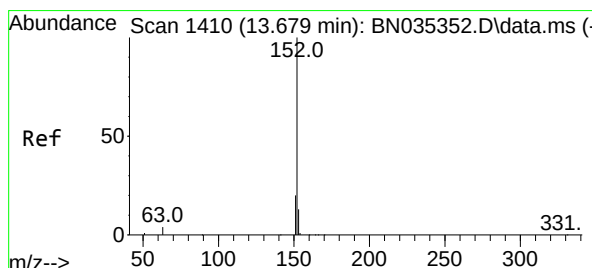
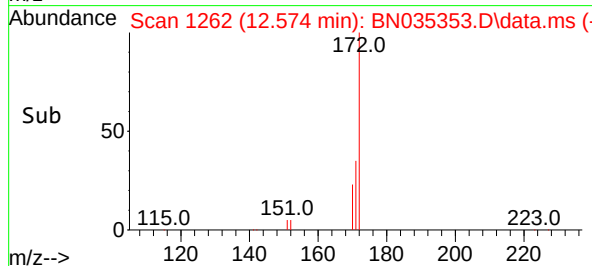
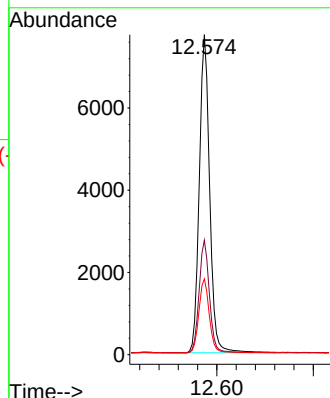
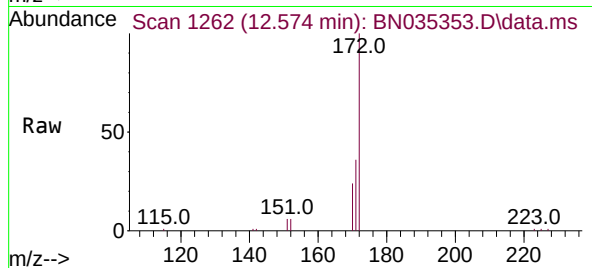
Tgt Ion:172 Resp: 11528

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

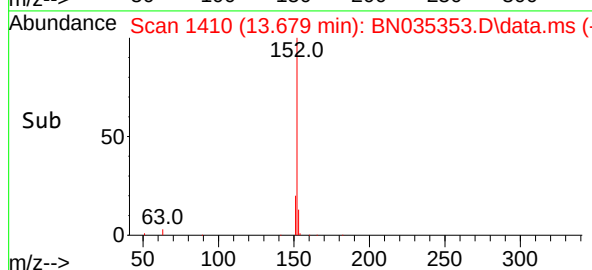
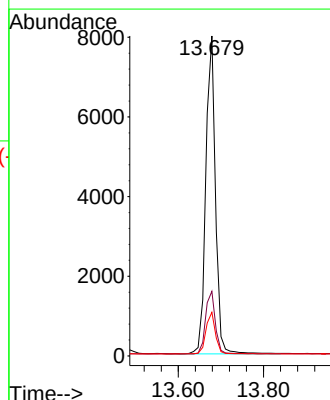
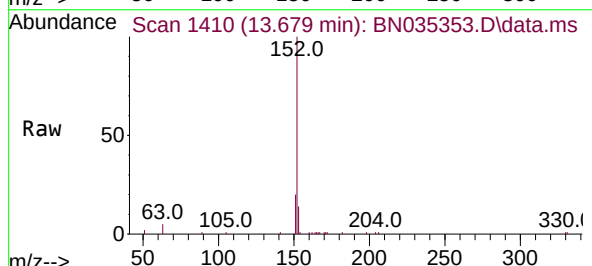
Tgt Ion:152 Resp: 12523

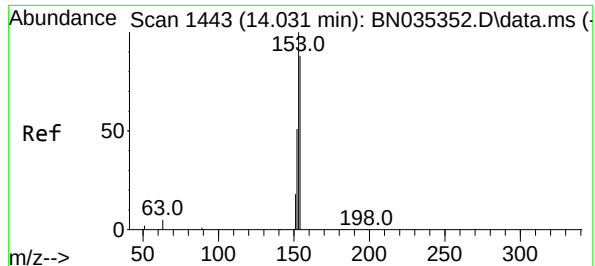
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 12.9 10.4 15.6

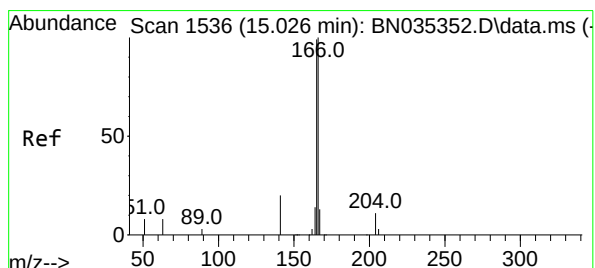
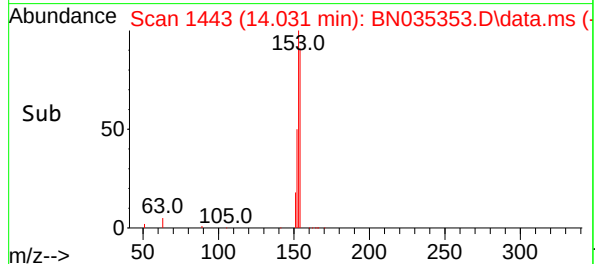
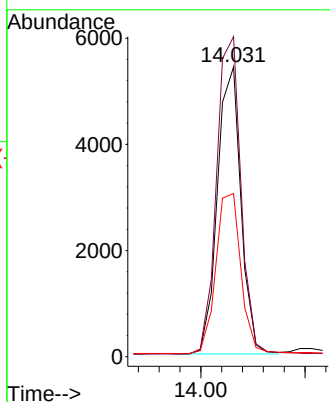
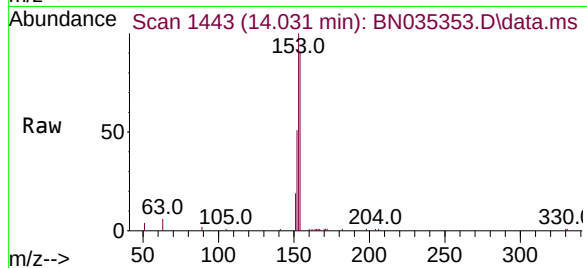




#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

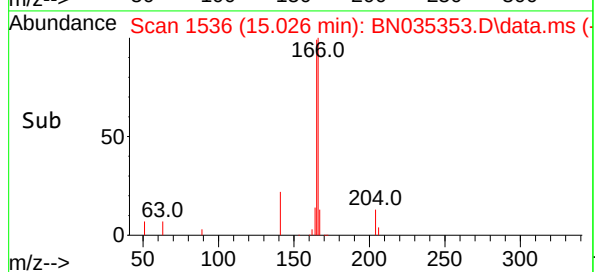
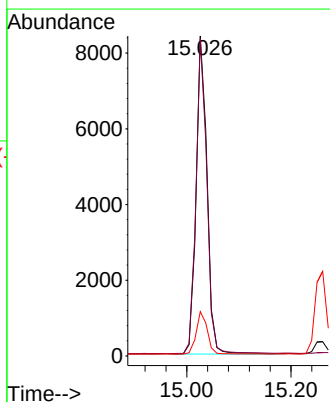
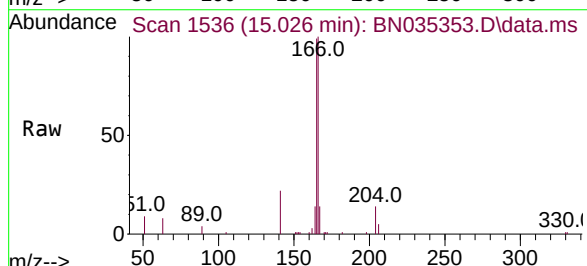
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

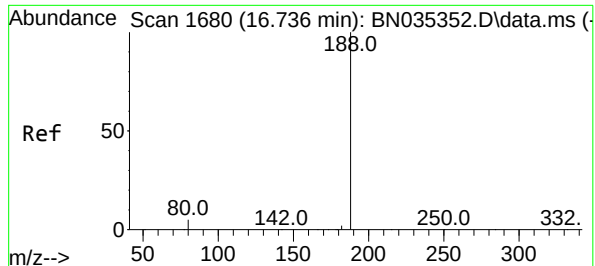
Tgt Ion:154 Resp: 8470
Ion Ratio Lower Upper
154 100
153 114.8 92.6 139.0
152 60.2 49.0 73.6



#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

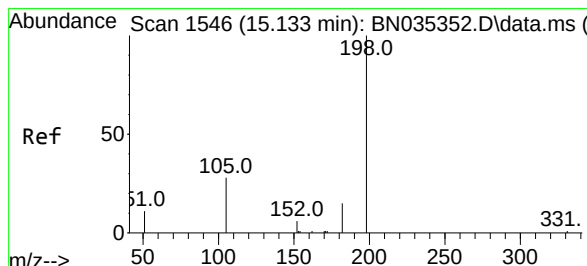
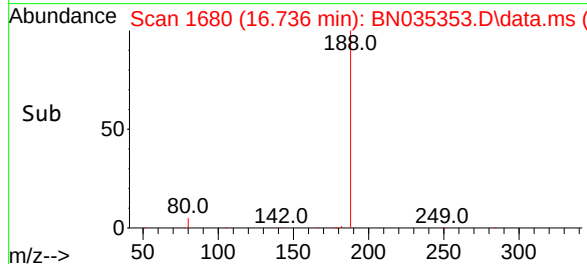
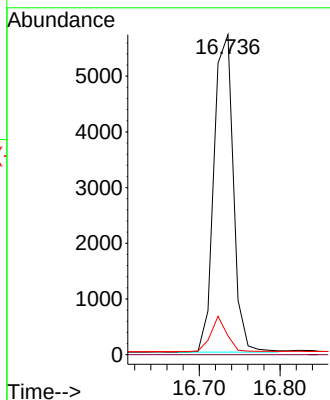
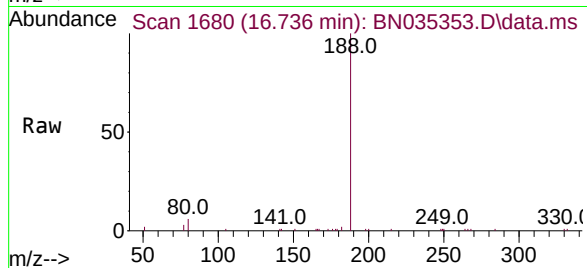
Tgt Ion:188 Resp: 9525

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

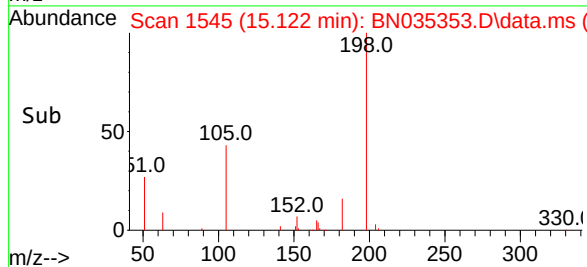
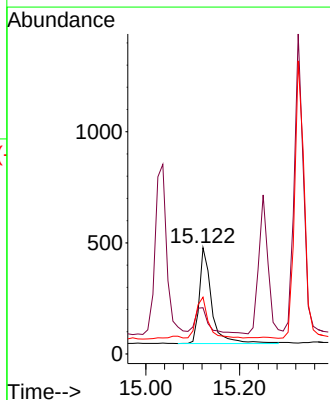
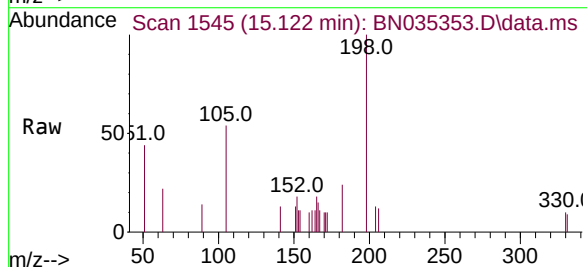
Tgt Ion:198 Resp: 784

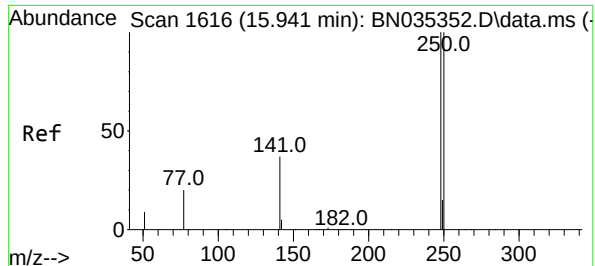
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

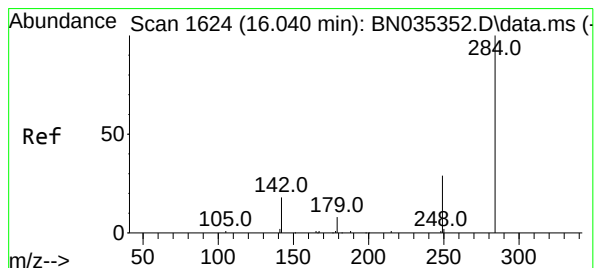
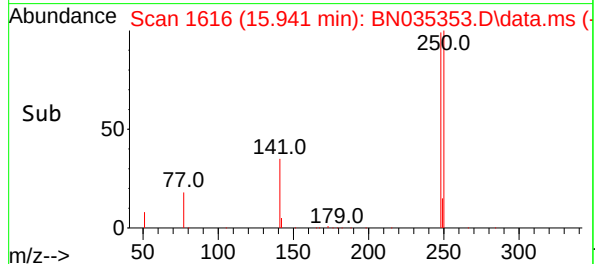
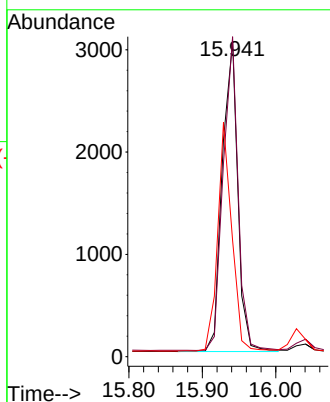
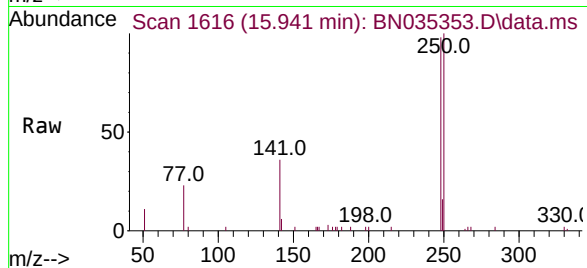




#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

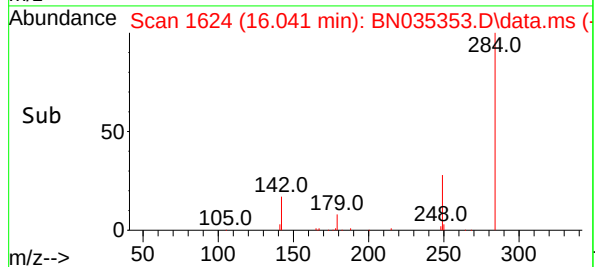
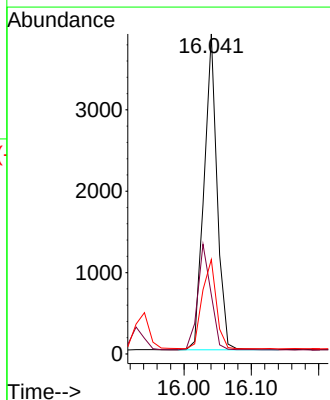
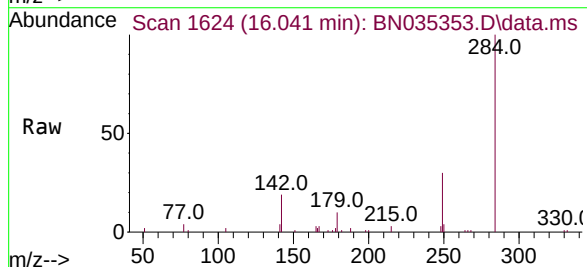
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

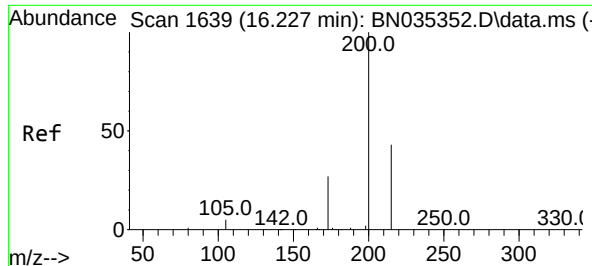
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3



#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

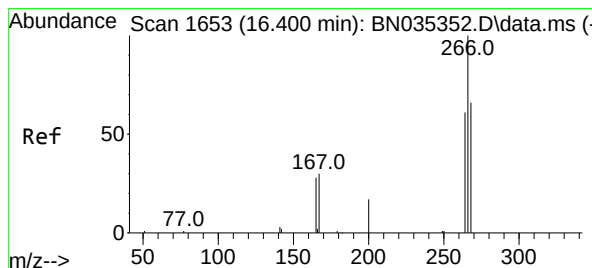
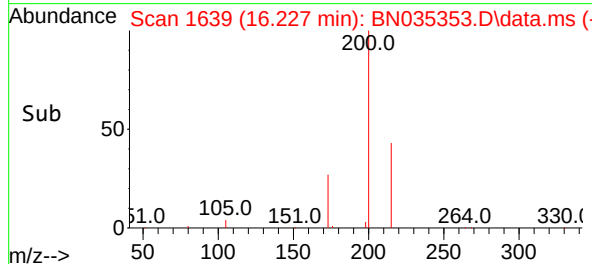
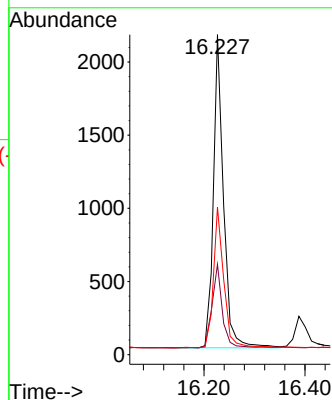
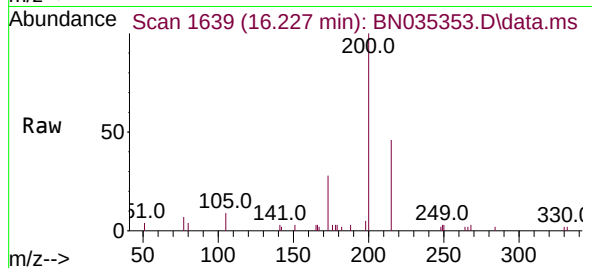




#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

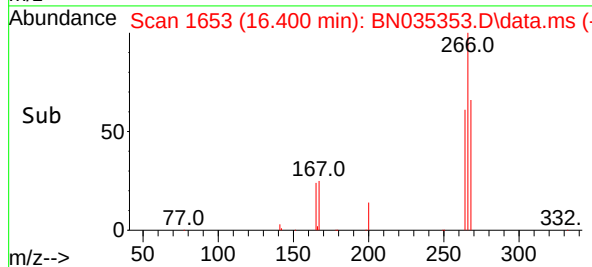
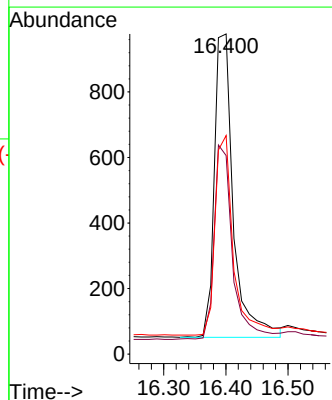
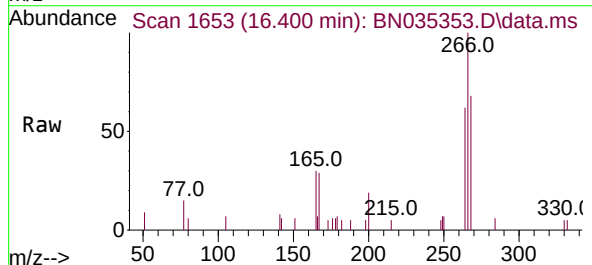
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

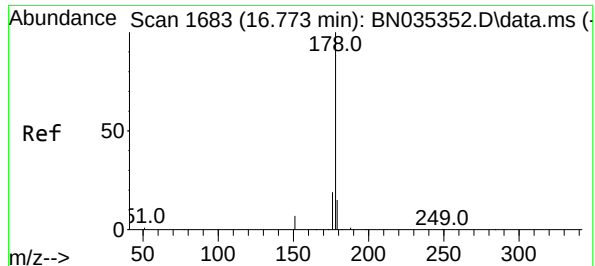
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3



#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

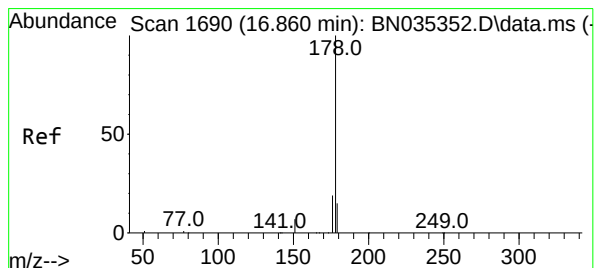
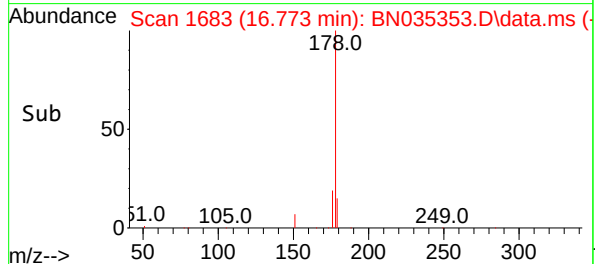
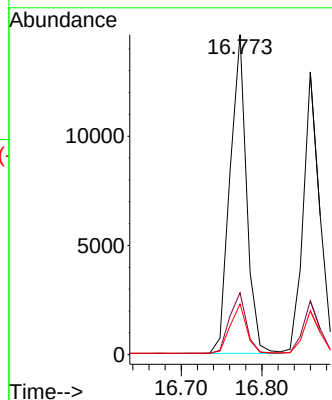
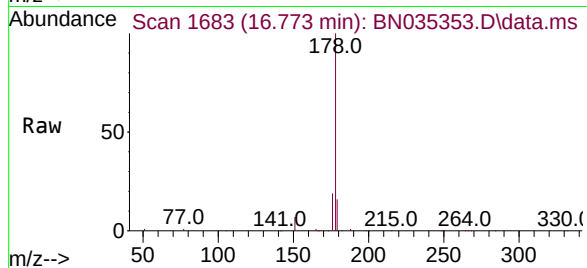




#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

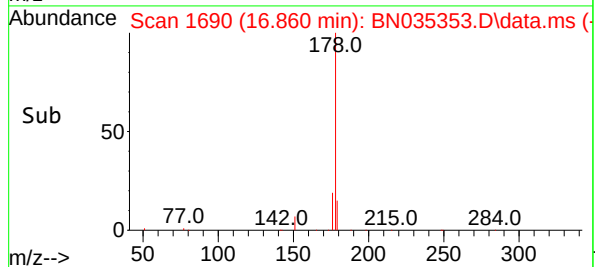
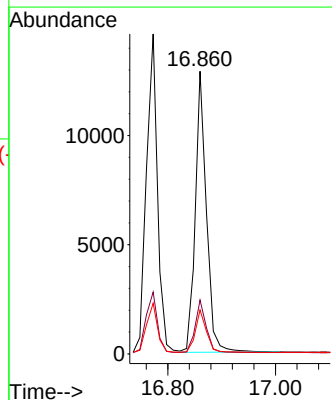
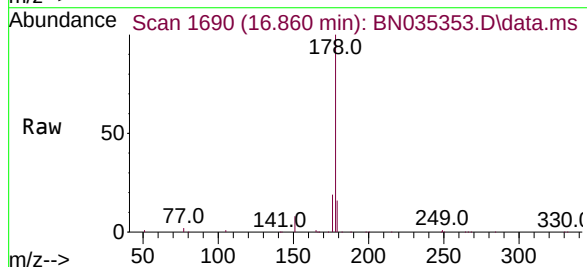
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

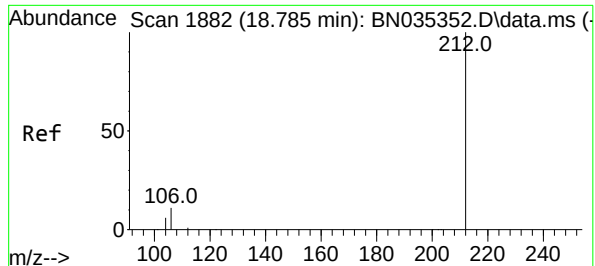
Tgt Ion:178 Resp: 20803
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.3 18.5



#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

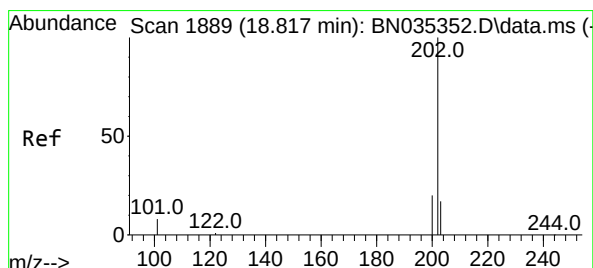
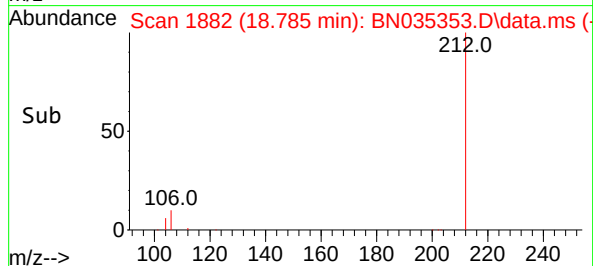
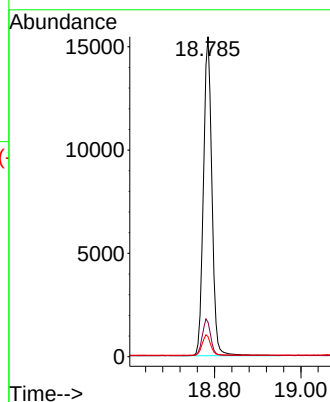
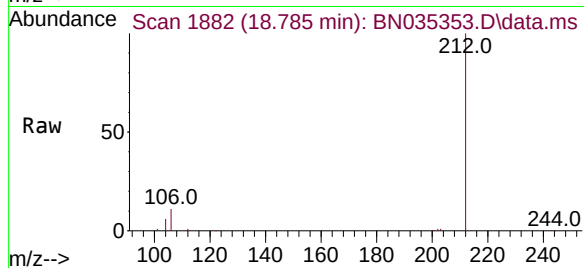
Tgt Ion:212 Resp: 21050

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

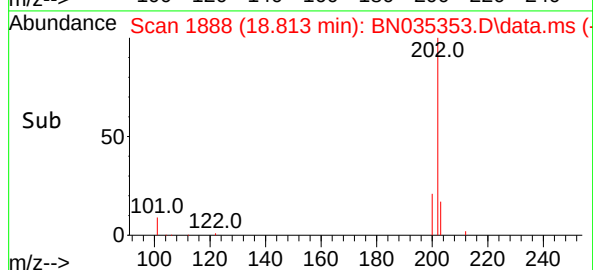
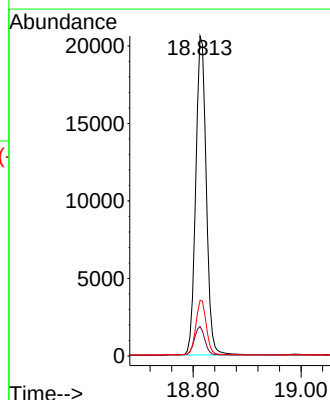
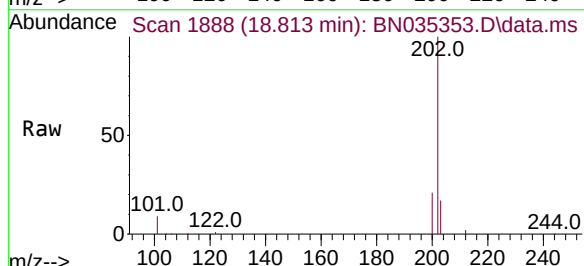
Tgt Ion:202 Resp: 27743

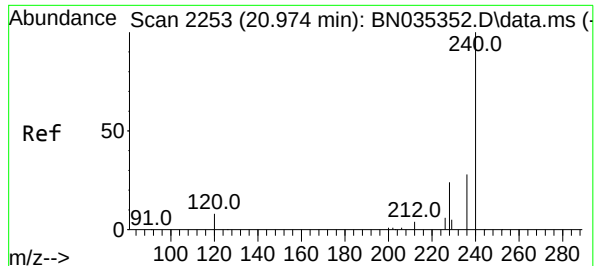
Ion Ratio Lower Upper

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

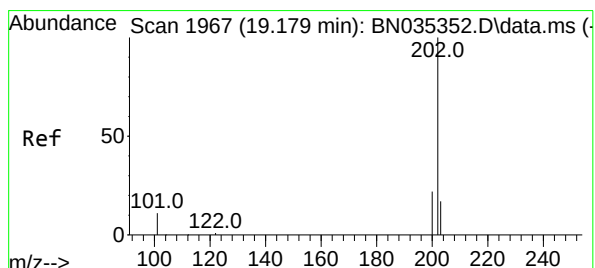
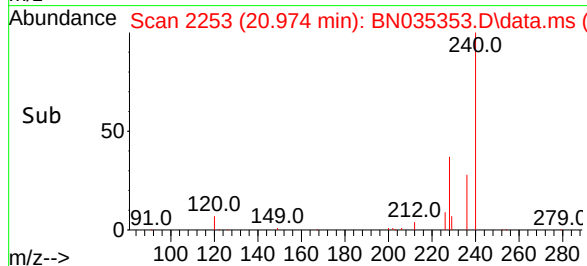
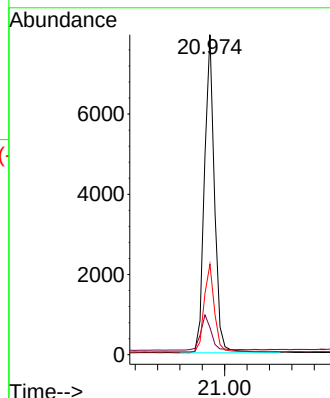
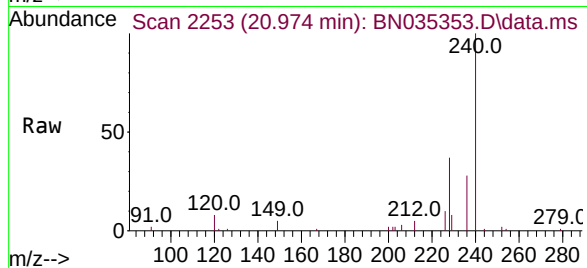
Tgt Ion:240 Resp: 9837

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

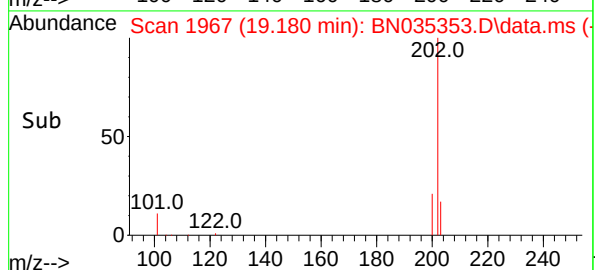
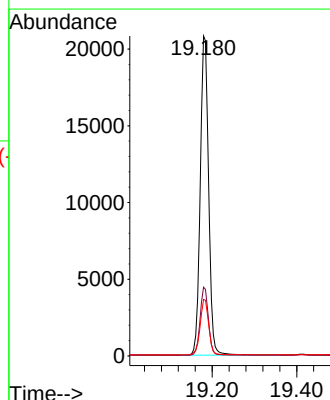
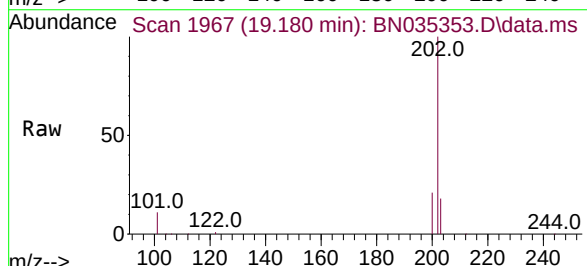
Tgt Ion:202 Resp: 28384

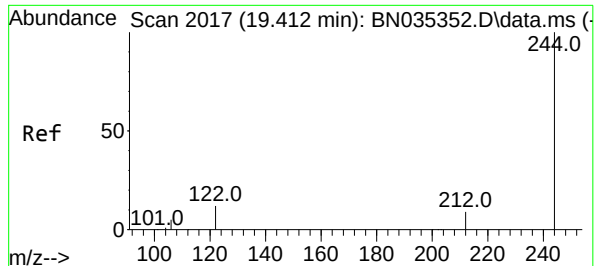
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

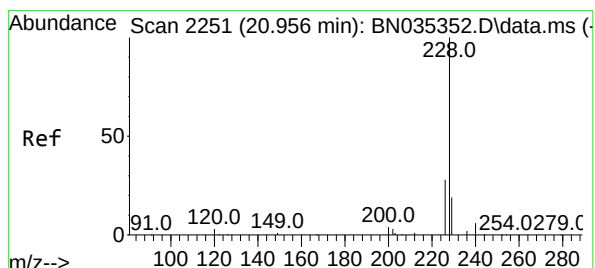
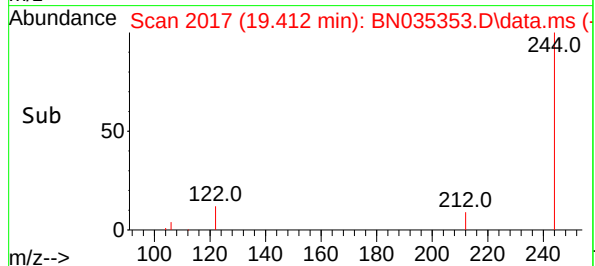
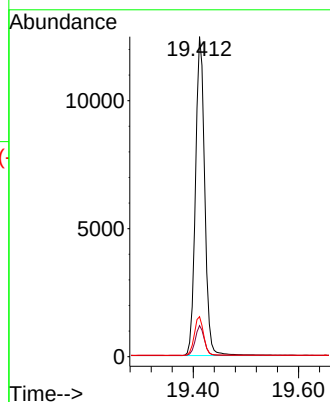
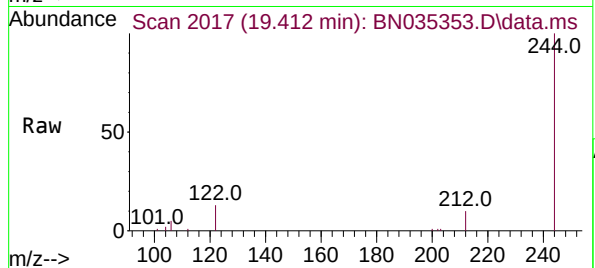




#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

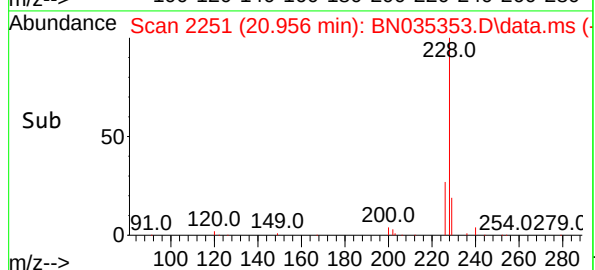
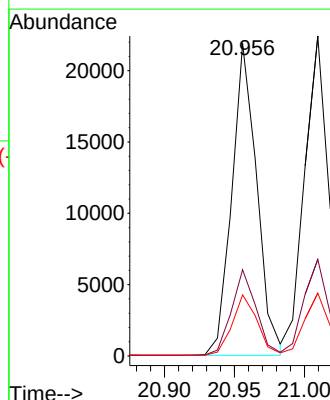
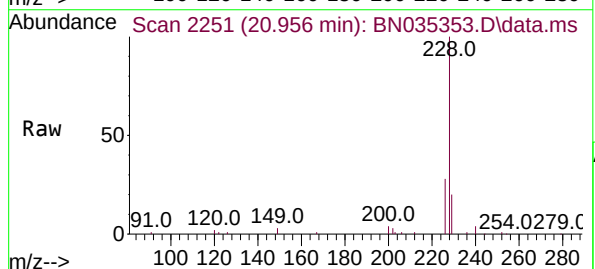
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

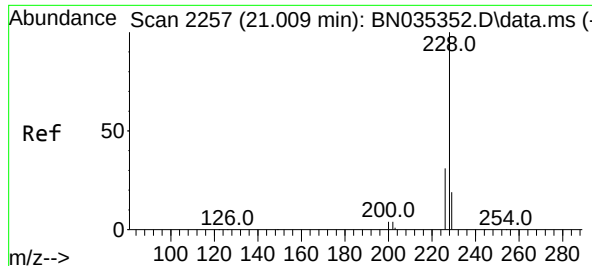
Tgt Ion:244 Resp: 15171
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5



#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

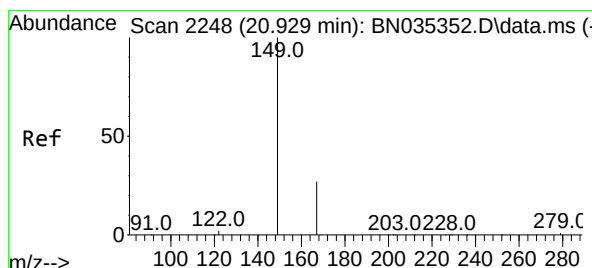
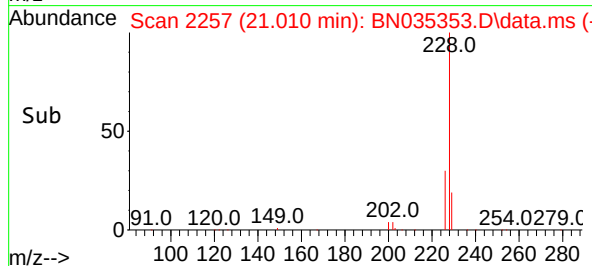
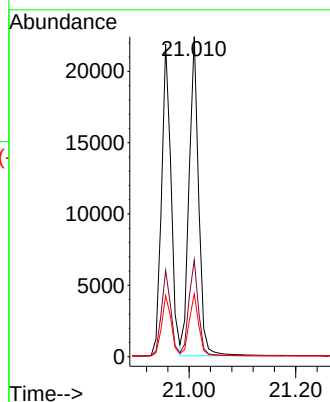
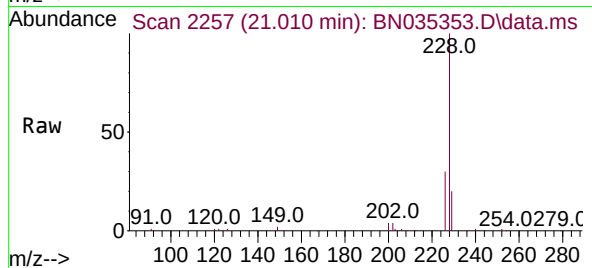
Tgt Ion:228 Resp: 27838

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

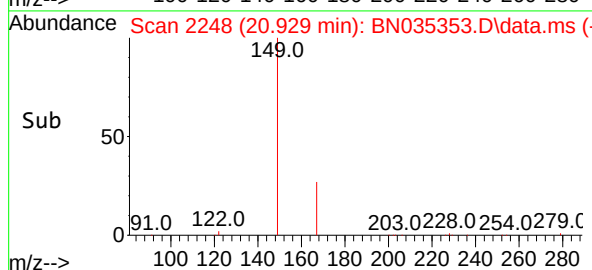
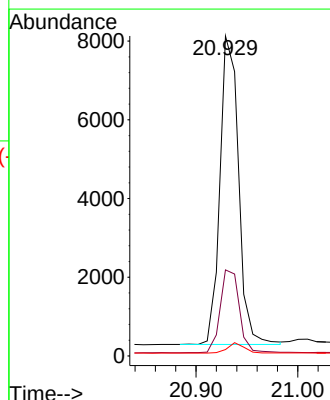
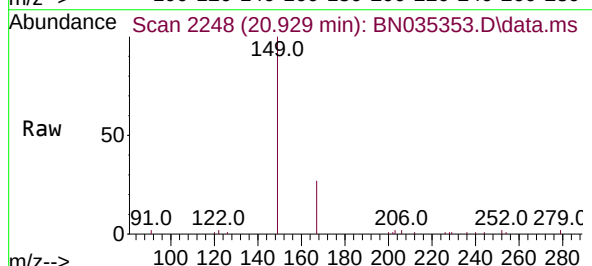
Tgt Ion:149 Resp: 9941

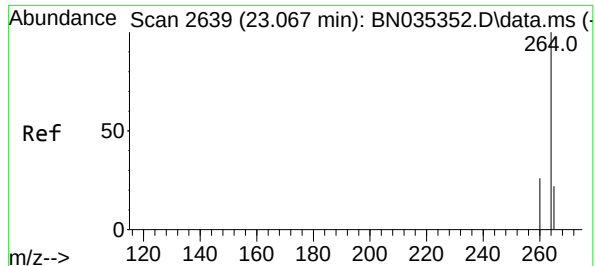
Ion Ratio Lower Upper

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

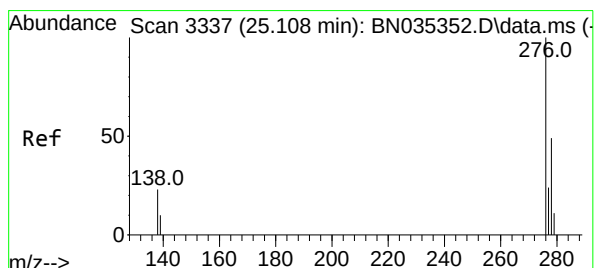
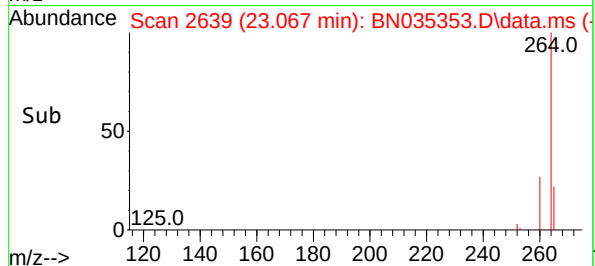
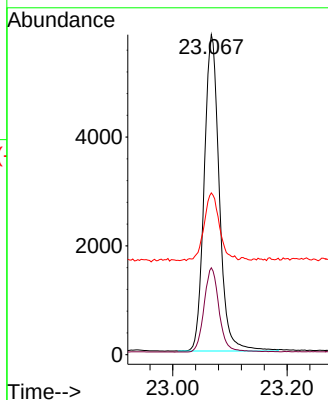
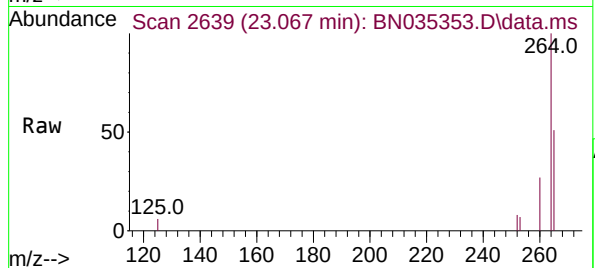
Tgt Ion:264 Resp: 10698

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

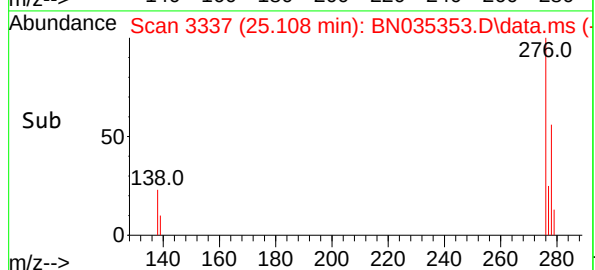
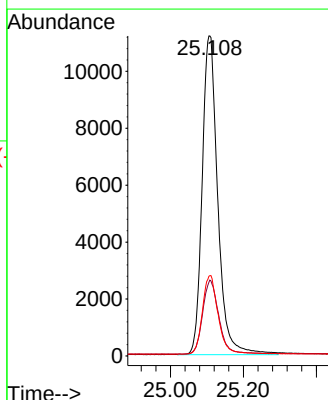
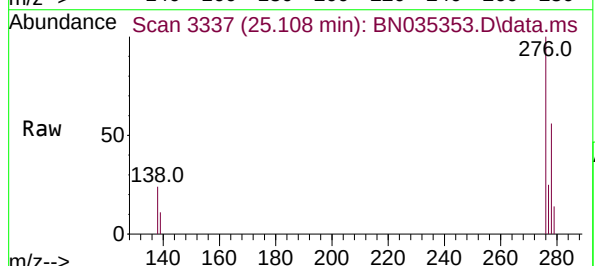
Tgt Ion:276 Resp: 33248

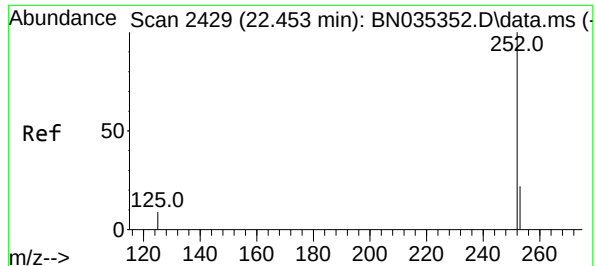
Ion Ratio Lower Upper

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

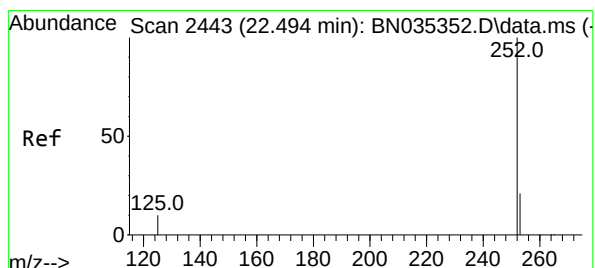
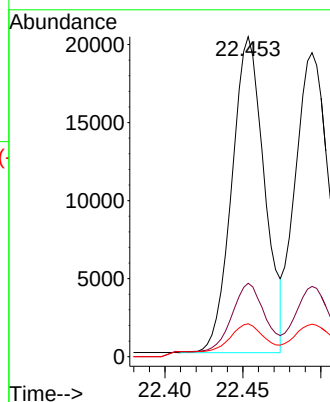
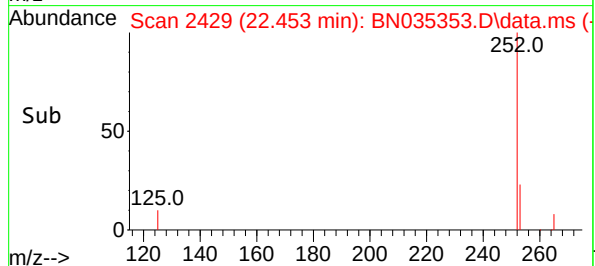
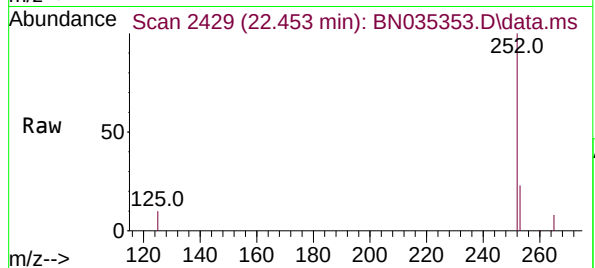
Tgt Ion:252 Resp: 29491

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

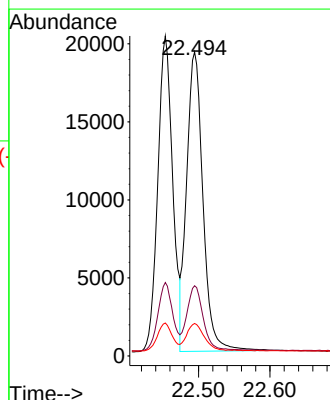
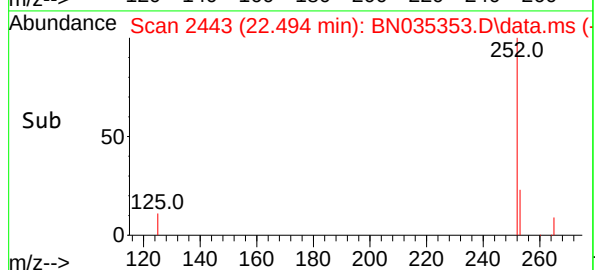
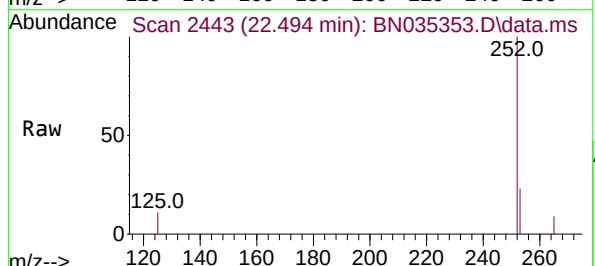
Tgt Ion:252 Resp: 30369

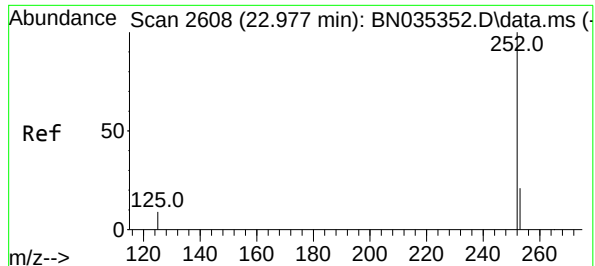
Ion Ratio Lower Upper

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

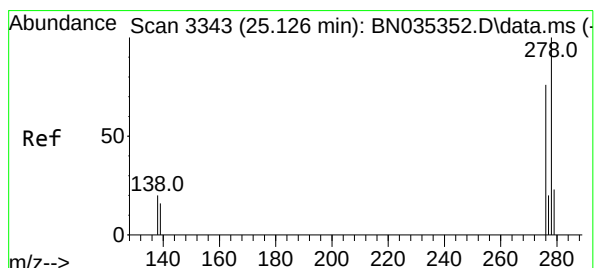
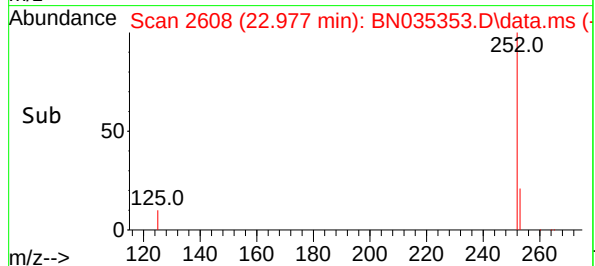
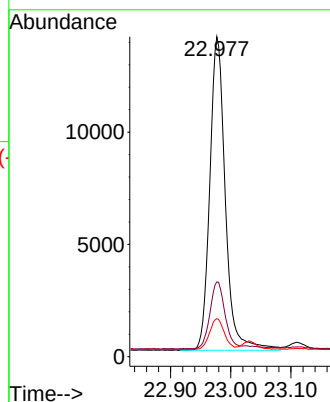
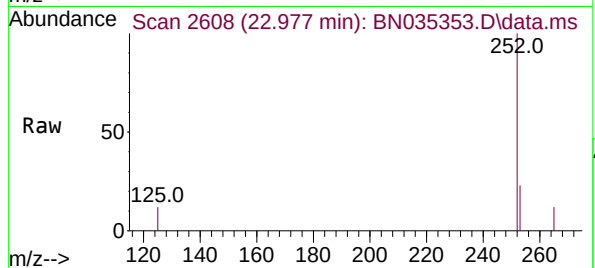
Tgt Ion:252 Resp: 25053

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

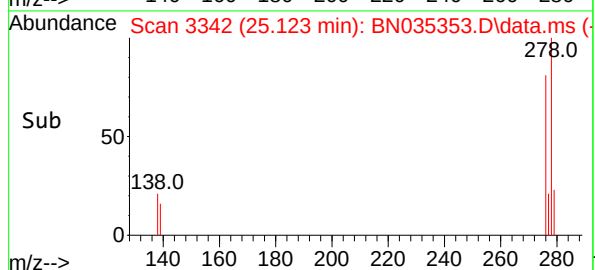
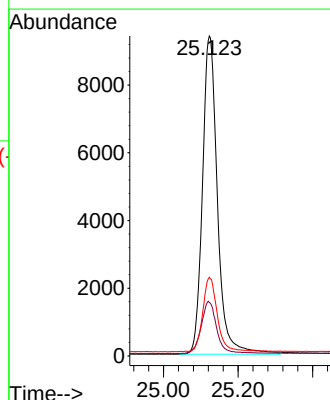
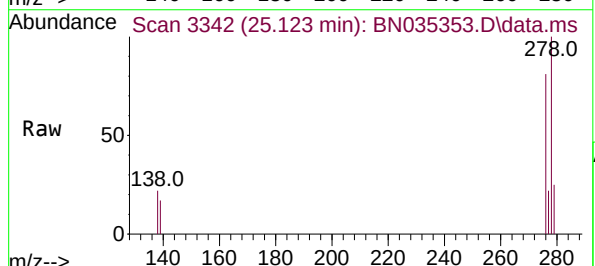
Tgt Ion:278 Resp: 26222

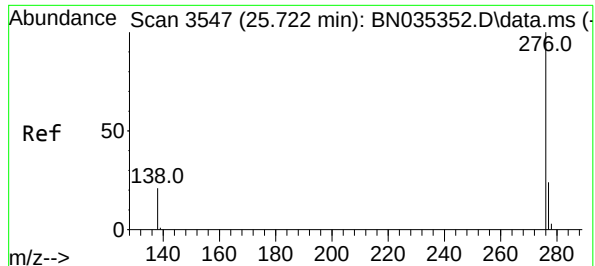
Ion Ratio Lower Upper

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

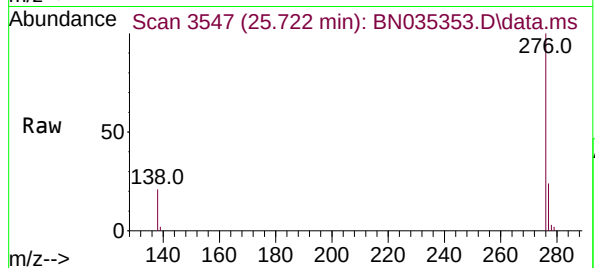
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



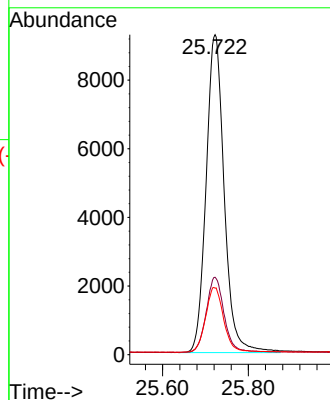
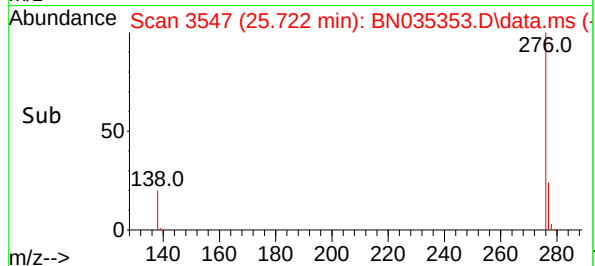
Tgt Ion:276 Resp: 27143

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)

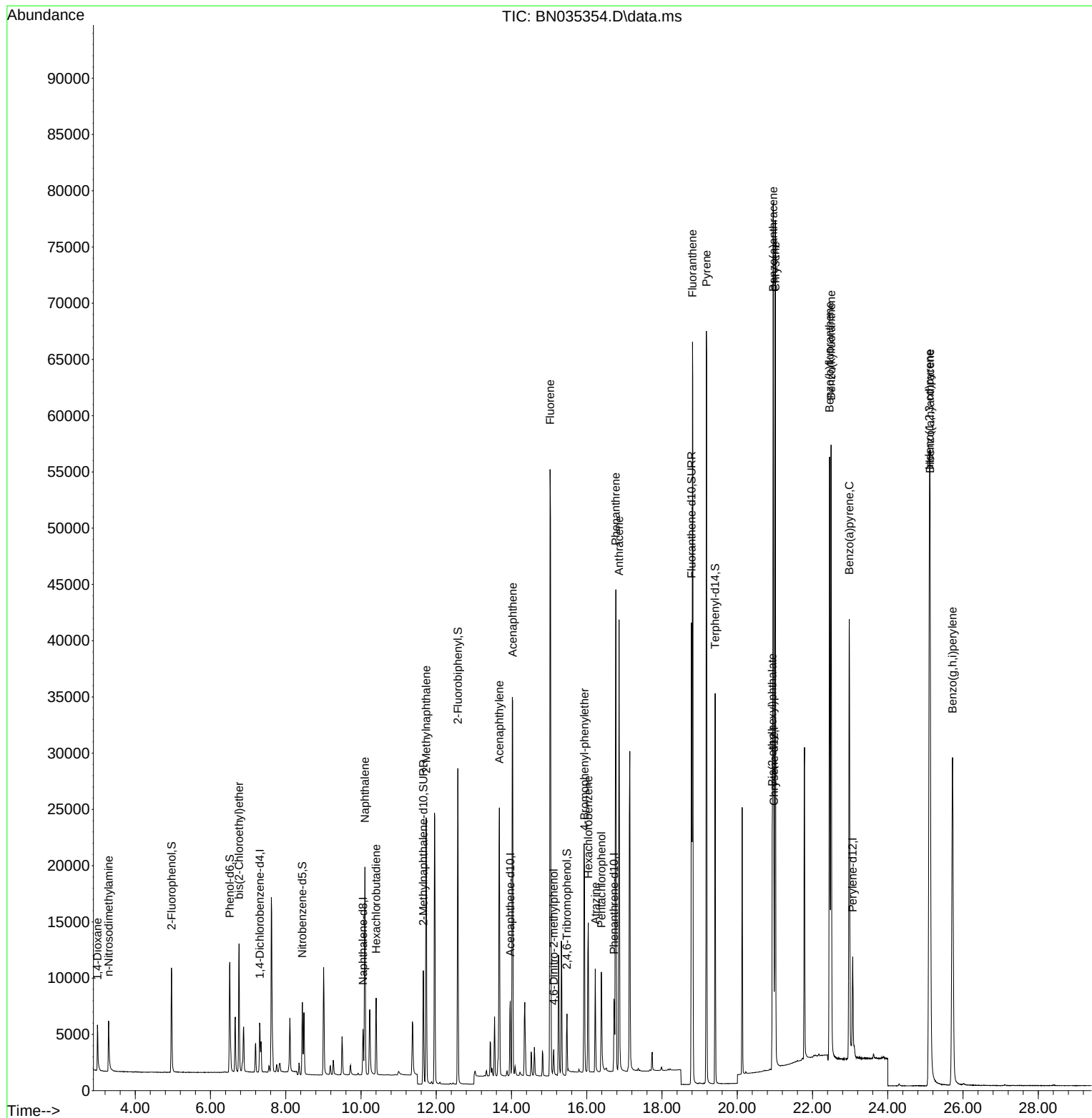
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng	0.00
35) Perylene-d12	23.067	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

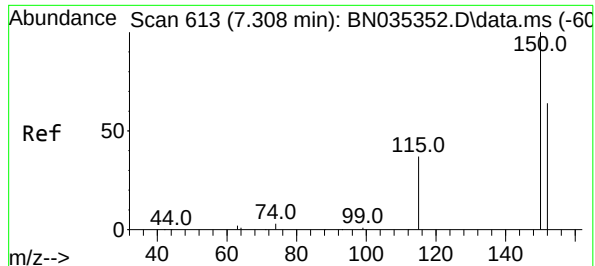
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

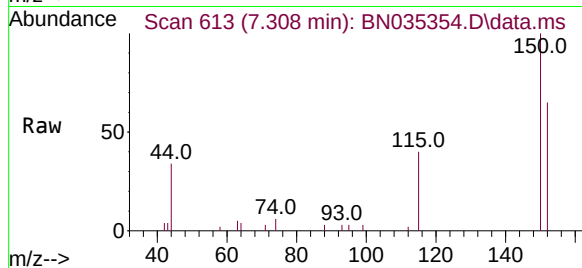
Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



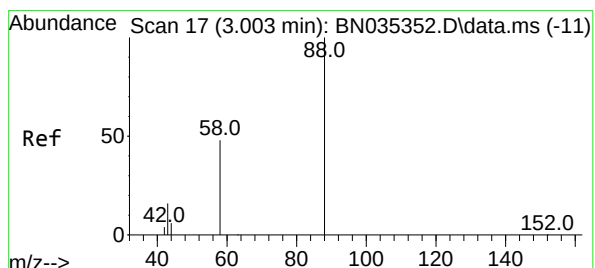
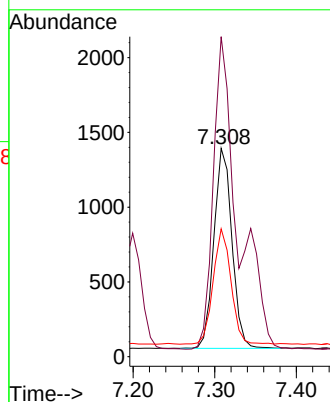
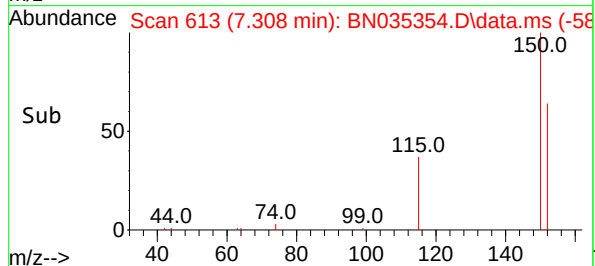


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

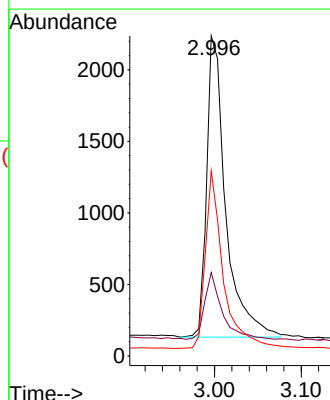
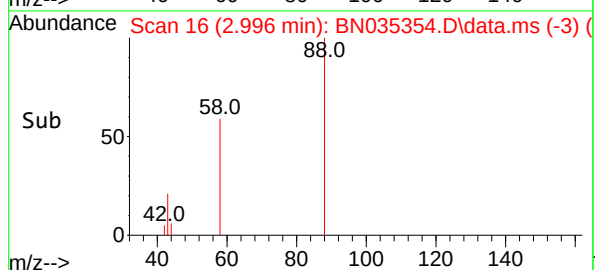
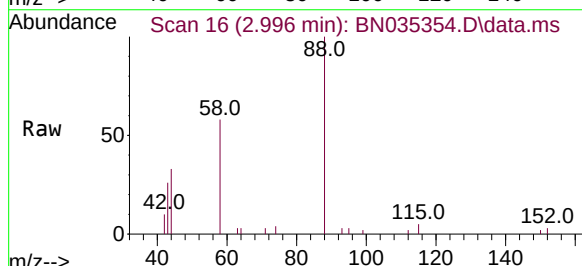


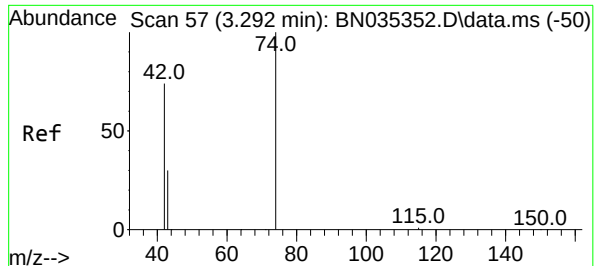
Tgt Ion:152 Resp: 2053
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 61.4 49.6 74.4



#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

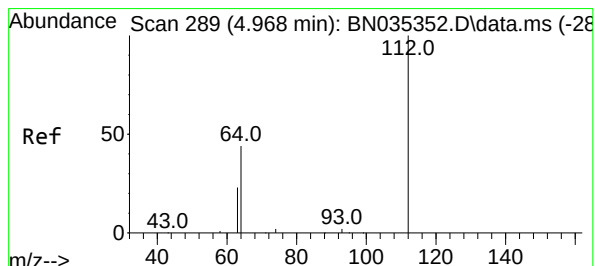
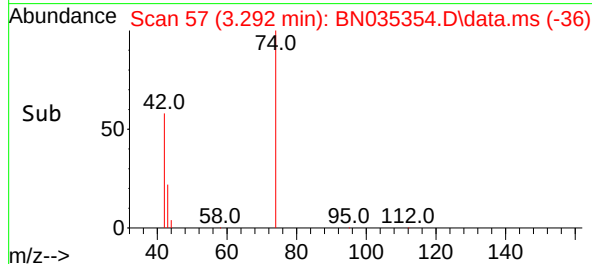
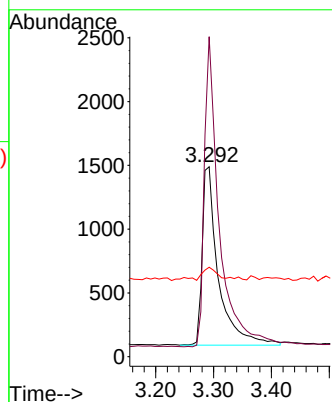
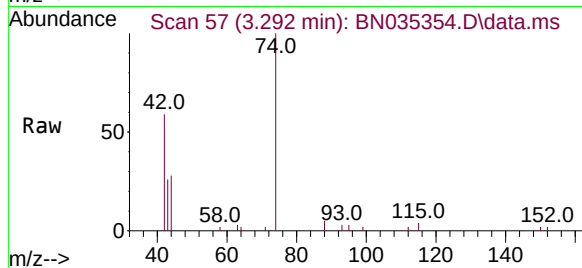




#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

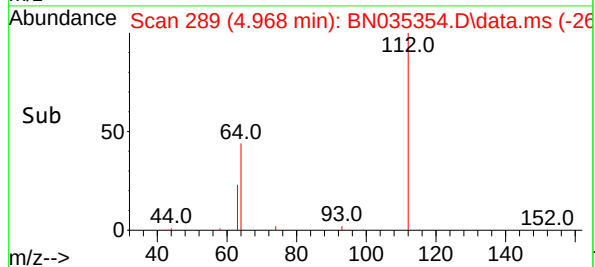
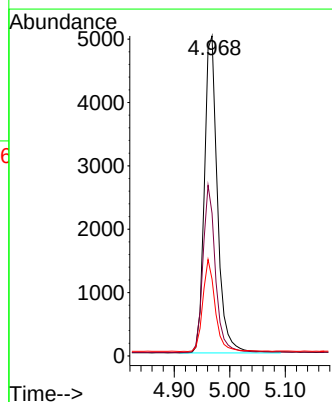
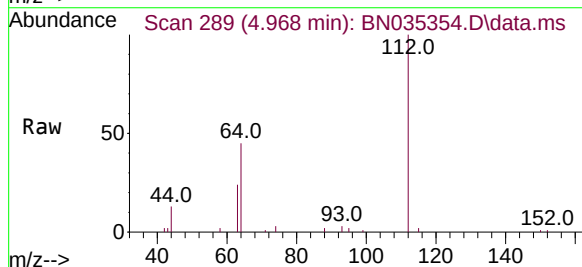
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

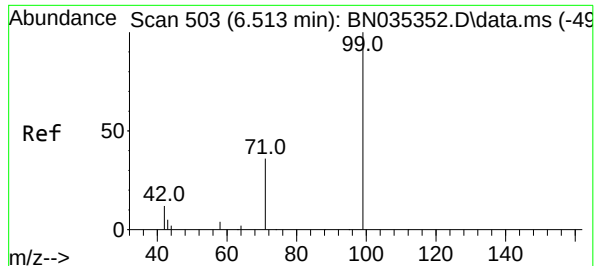
Tgt Ion: 42 Resp: 2729
Ion Ratio Lower Upper
42 100
74 160.4 124.9 187.3
44 6.2 2.2 3.4#



#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

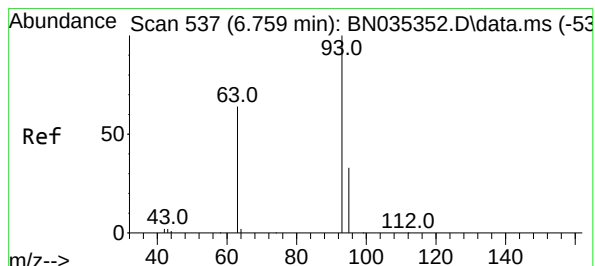
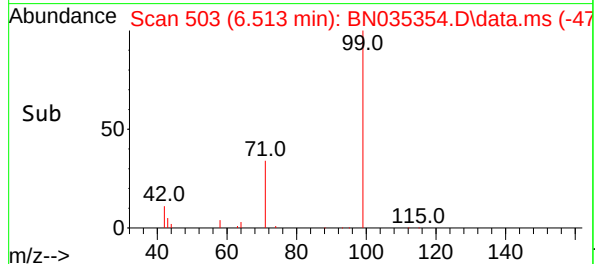
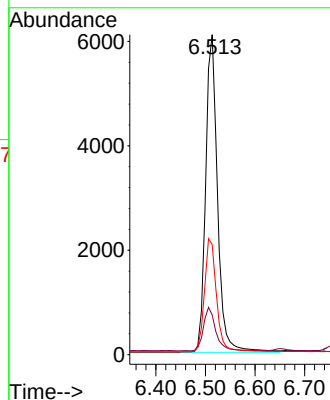
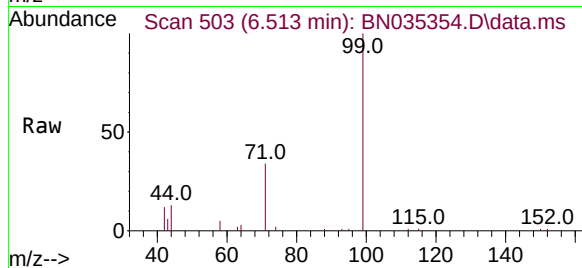




#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

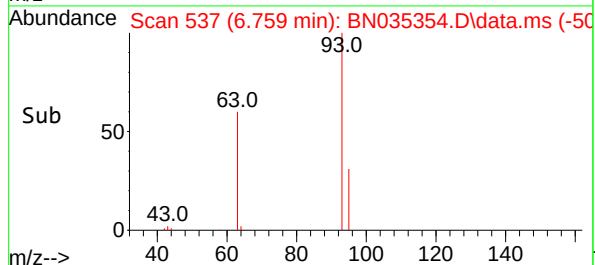
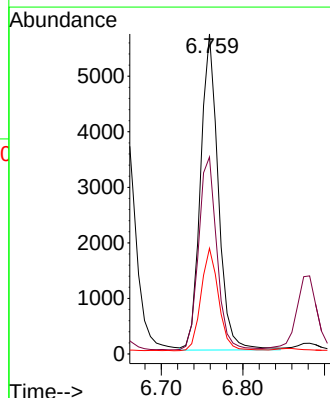
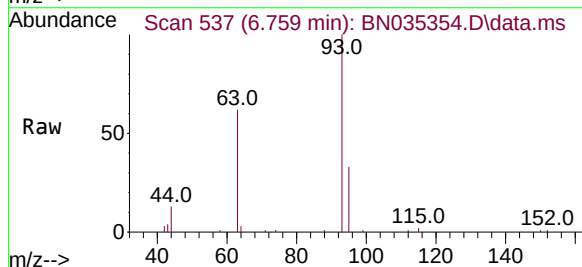
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

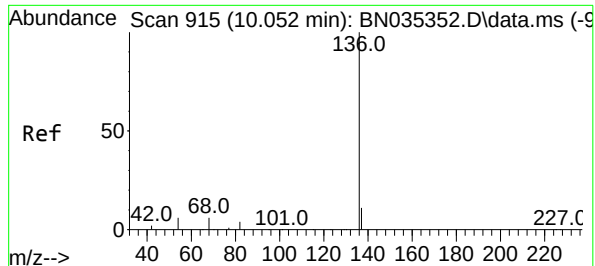
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9



#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

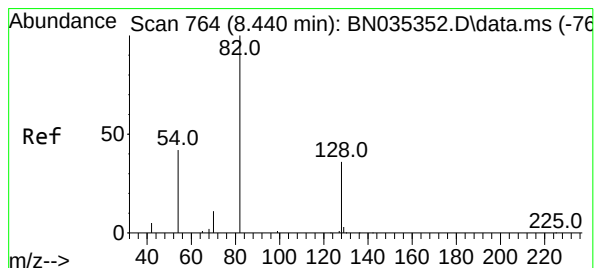
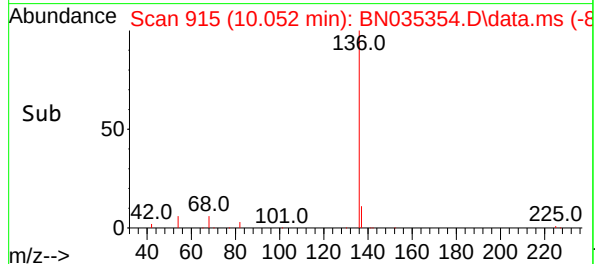
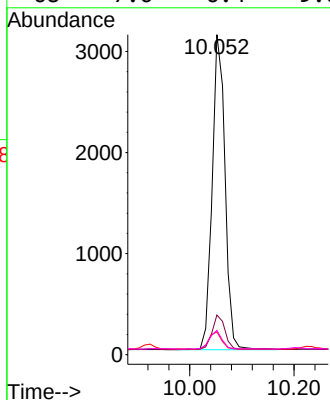
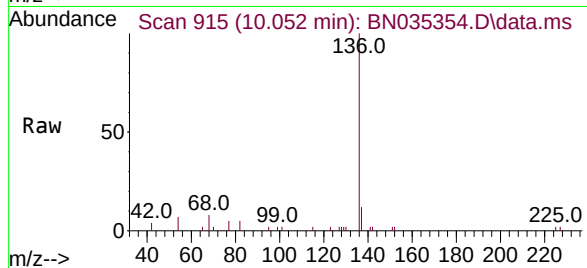




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

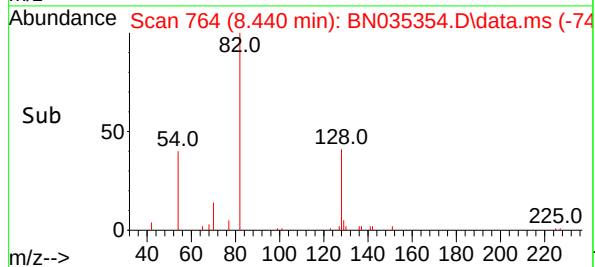
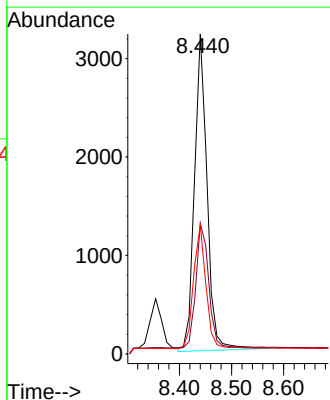
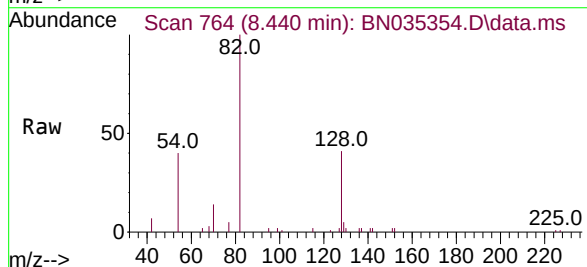
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

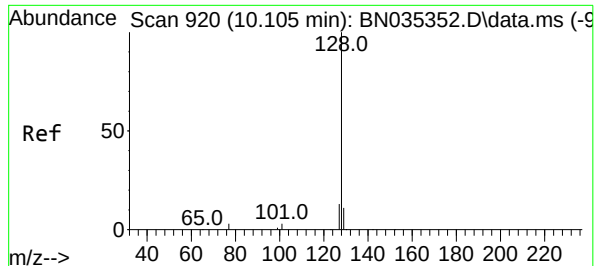
Tgt Ion:	136	Resp:	5309
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6



#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

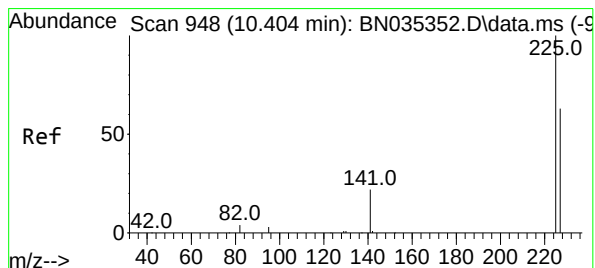
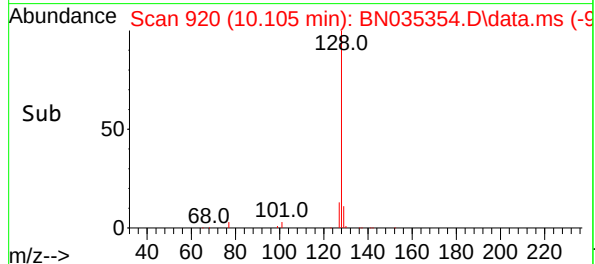
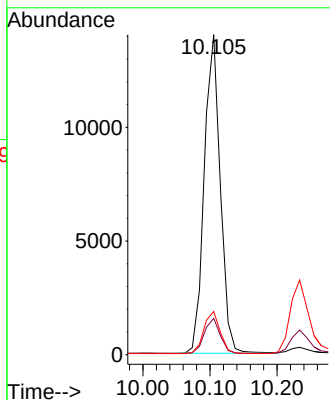
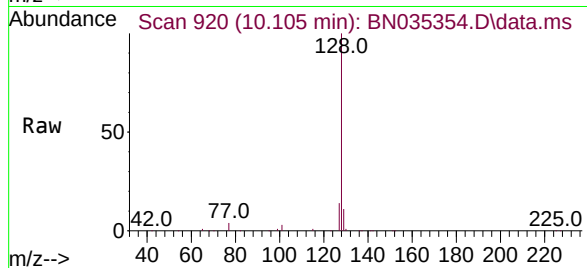




#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

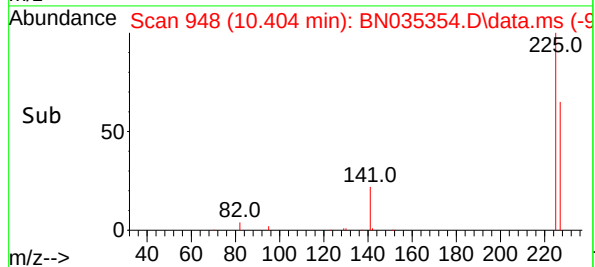
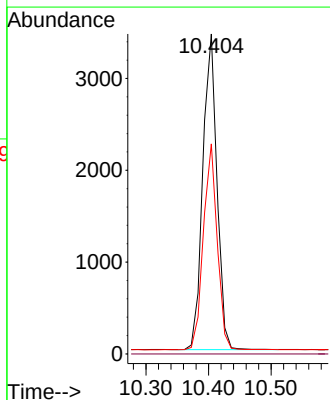
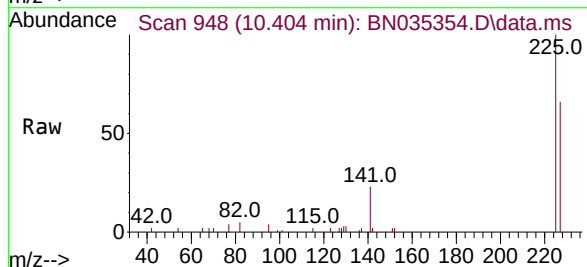
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

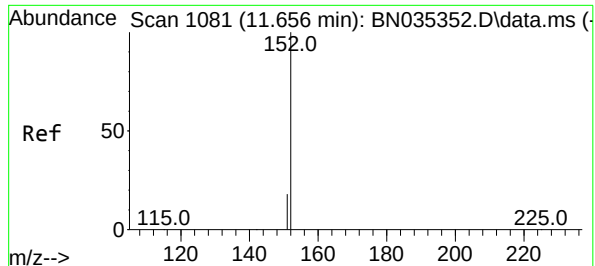
Tgt Ion:128 Resp: 23280
Ion Ratio Lower Upper
128 100
129 11.4 9.8 14.6
127 13.5 11.4 17.2



#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

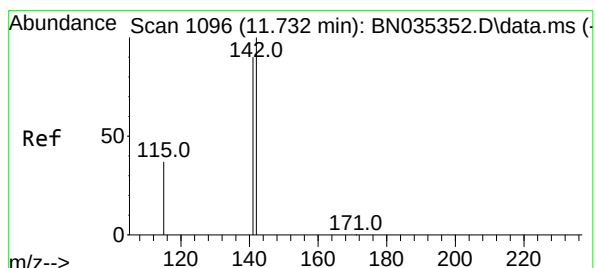
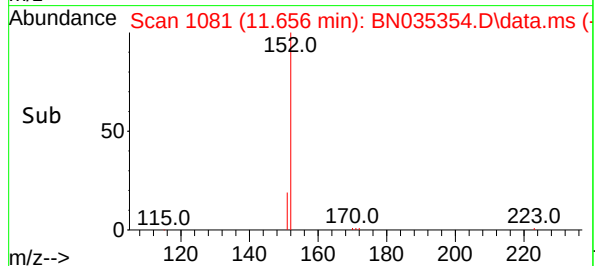
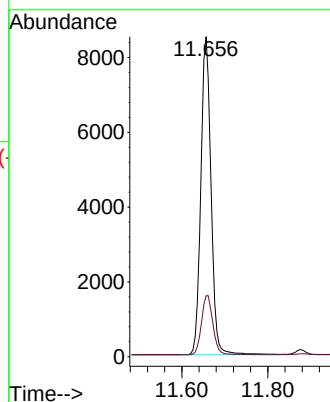
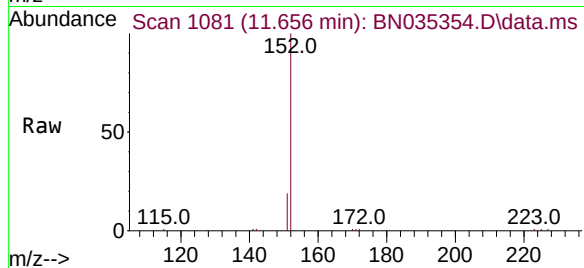




#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

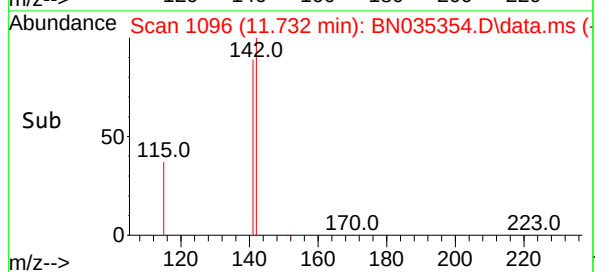
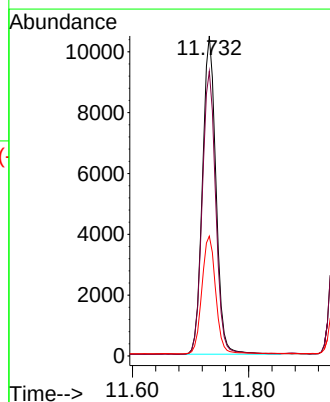
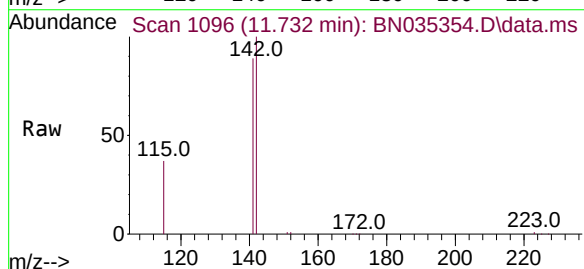
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

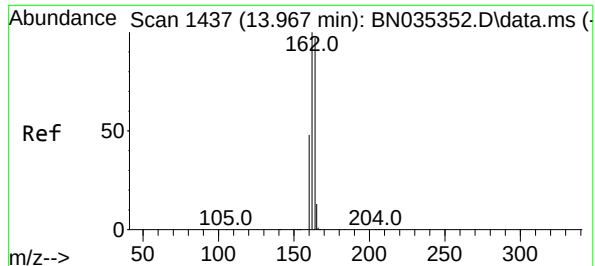
Tgt Ion:152 Resp: 13988
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

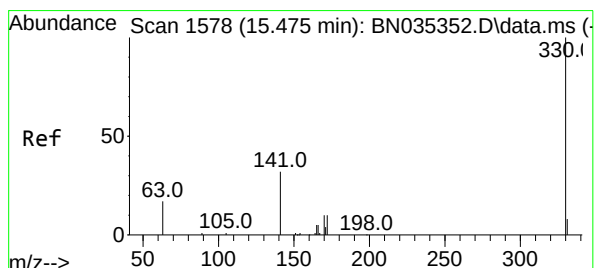
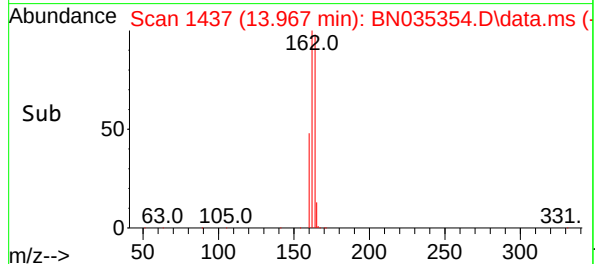
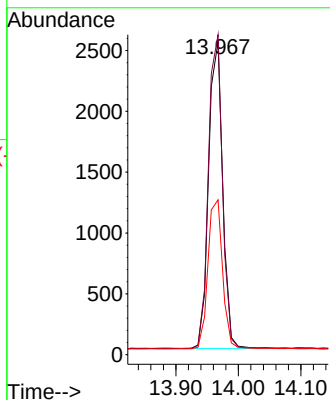
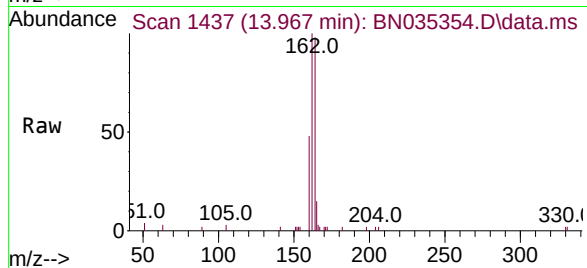




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

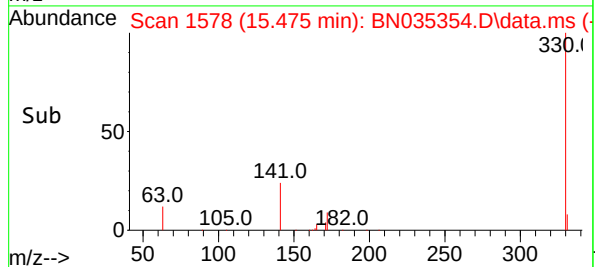
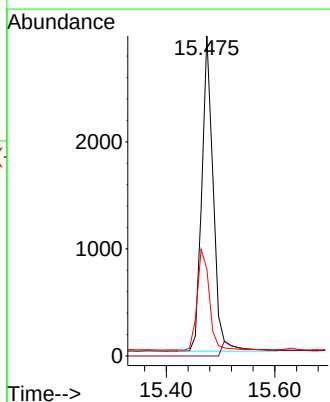
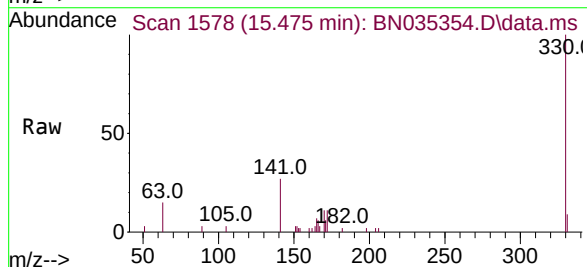
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

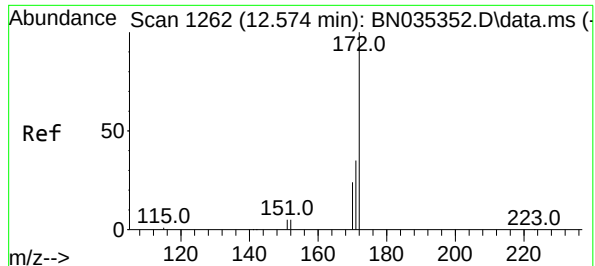
Tgt Ion:164 Resp: 3942
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 49.5 40.1 60.1



#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

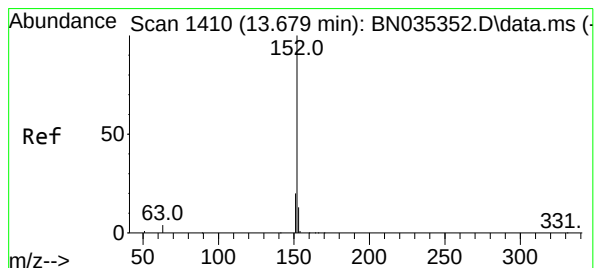
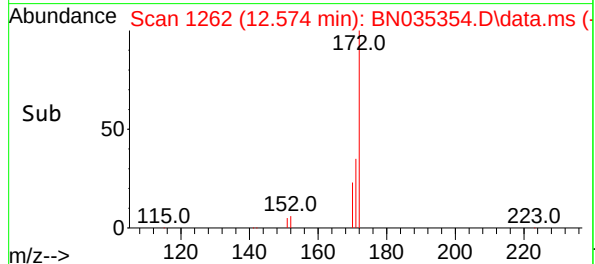
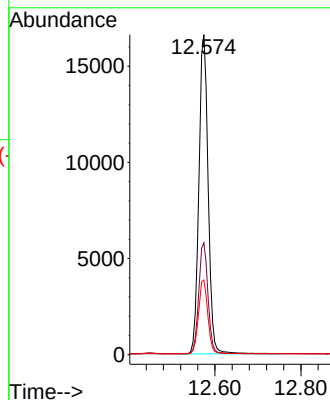
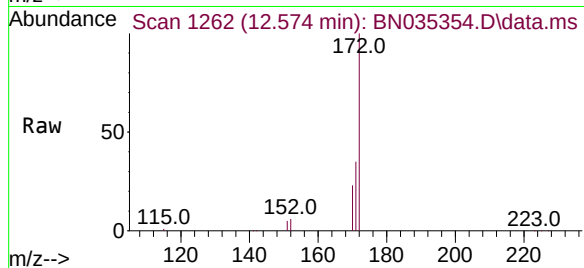




#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

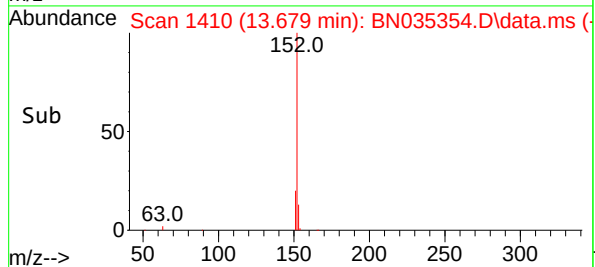
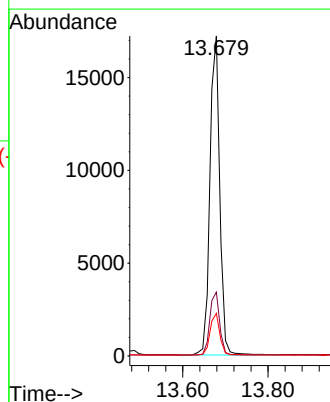
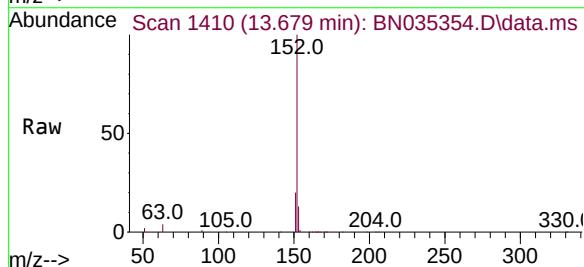
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

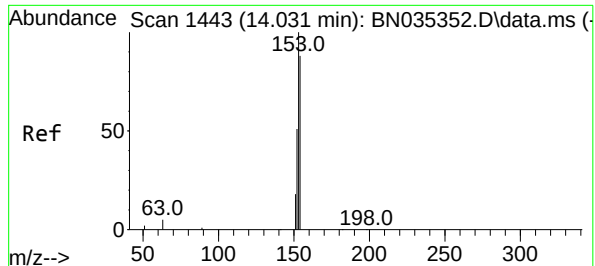
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8



#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

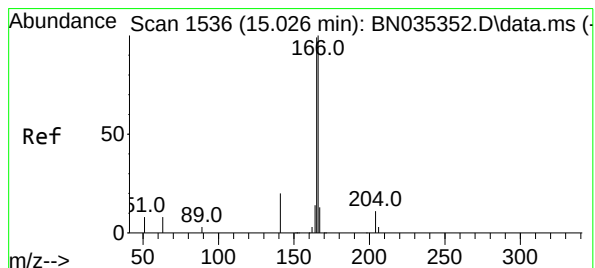
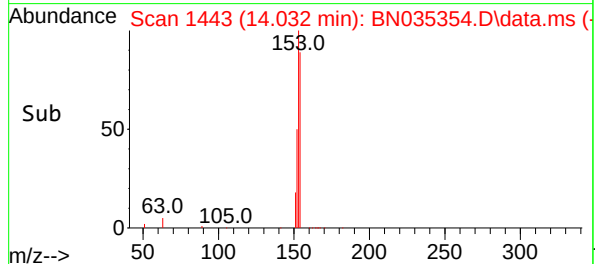
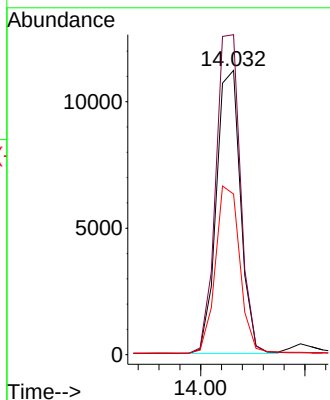
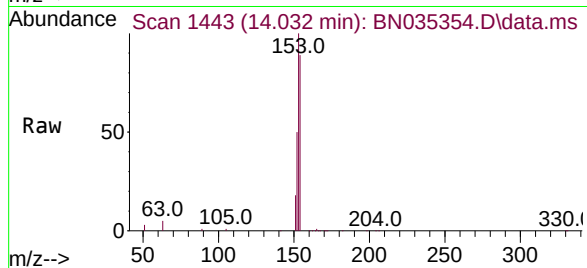




#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

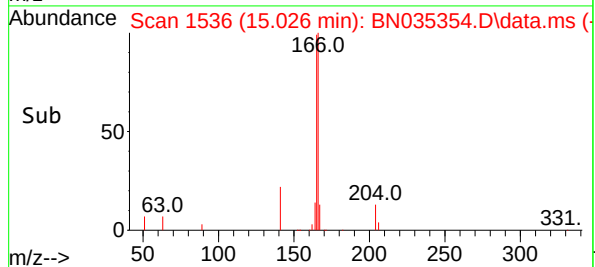
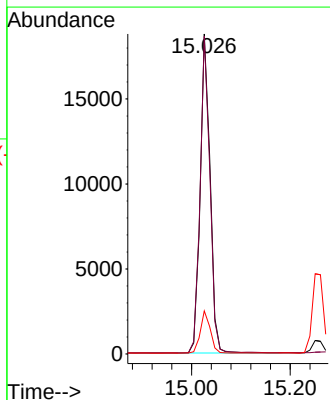
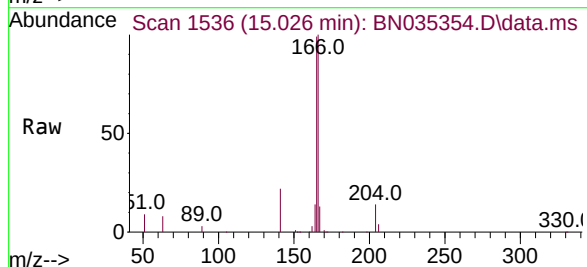
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

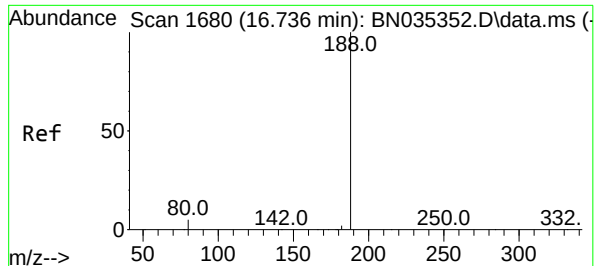
Tgt Ion:154 Resp: 18061
Ion Ratio Lower Upper
154 100
153 115.1 92.6 139.0
152 59.9 49.0 73.6



#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

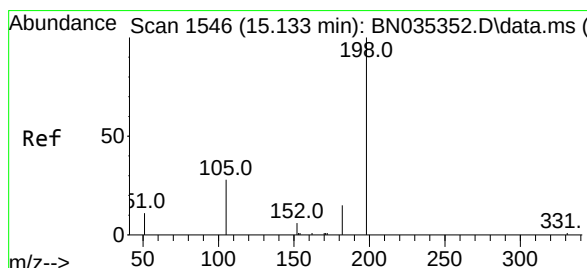
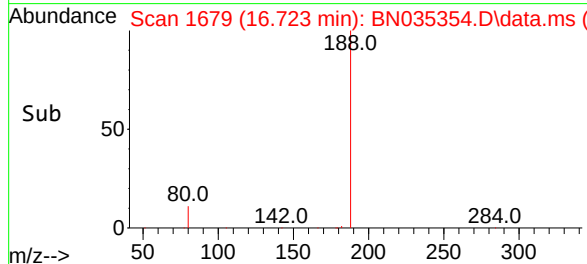
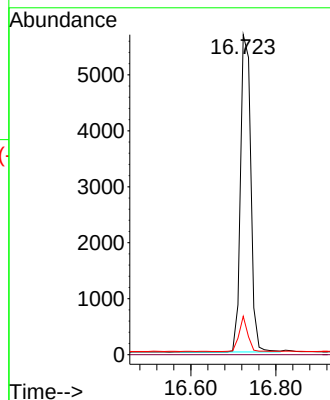
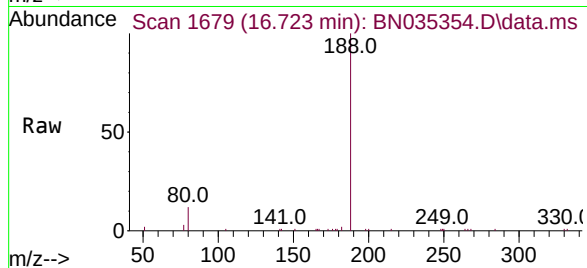
Tgt Ion:188 Resp: 9517

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

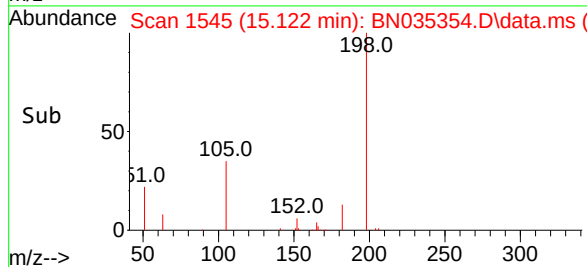
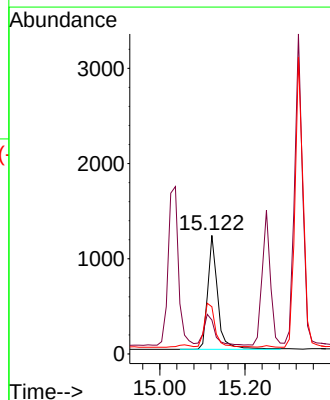
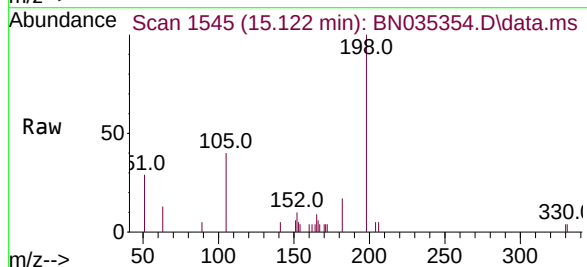
Tgt Ion:198 Resp: 1947

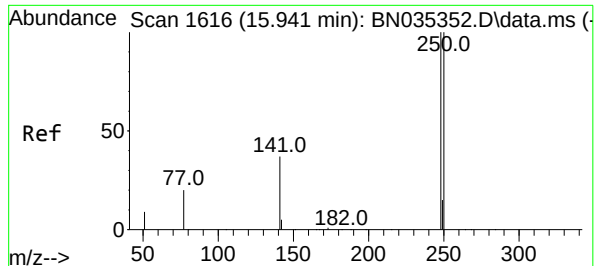
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

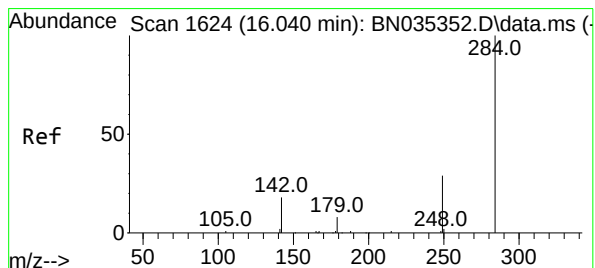
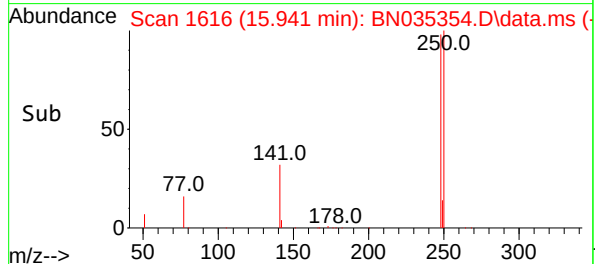
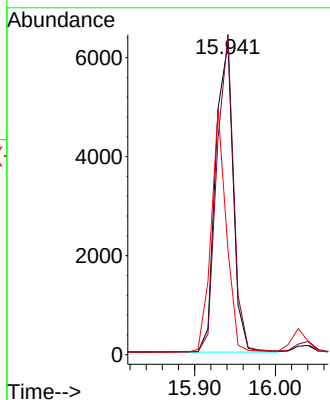
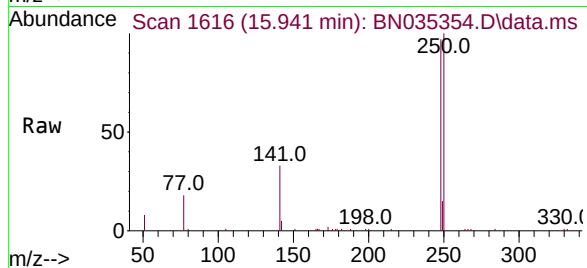




#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

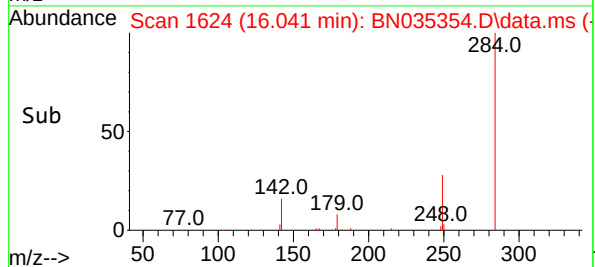
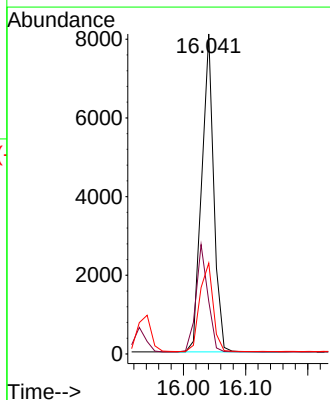
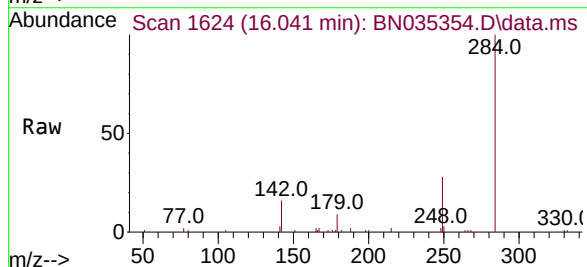
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

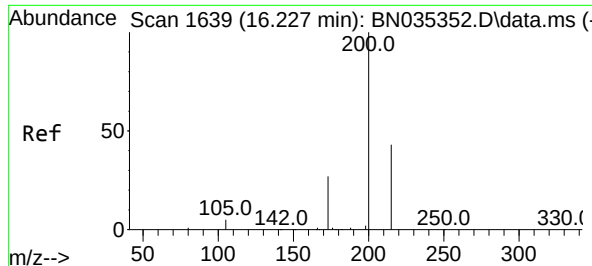
Tgt Ion	248	250	141
Resp:	9493		
Ion Ratio	100	102.7	33.7
Lower		80.6	31.5
Upper		120.8	47.3



#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion	284	142	249
Resp:	10969		
Ion Ratio	100	33.5	30.6
Lower		26.7	24.6
Upper		40.1	36.8

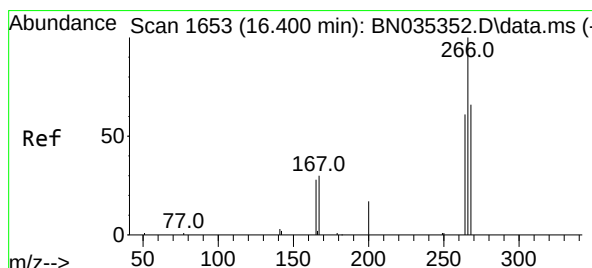
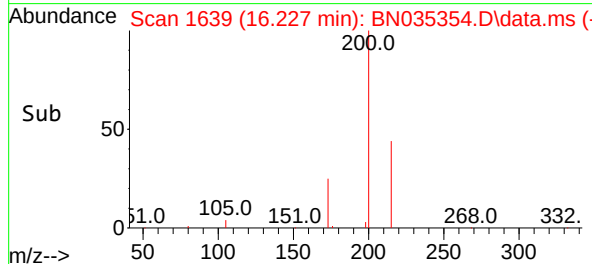
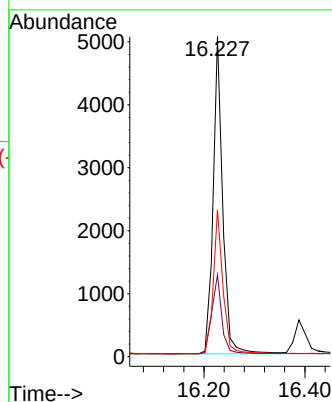
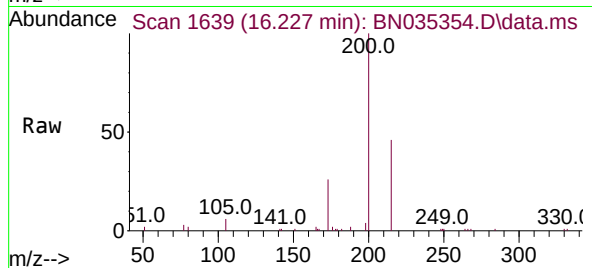




#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

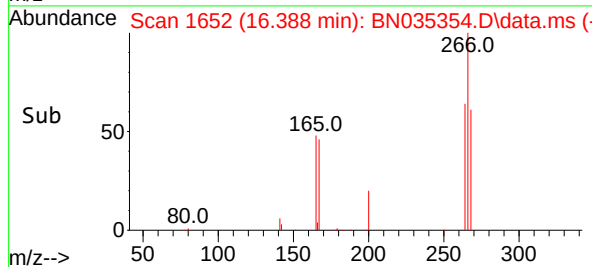
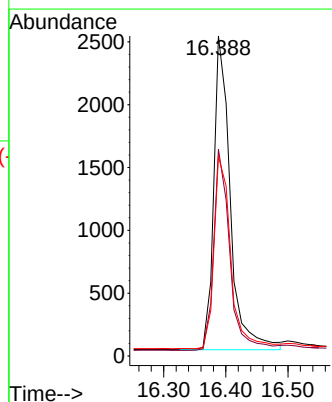
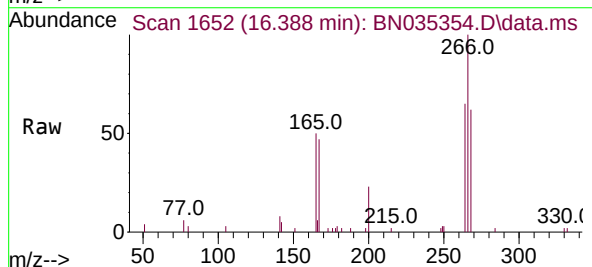
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

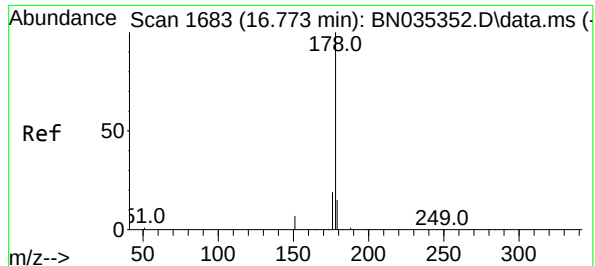
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3



#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

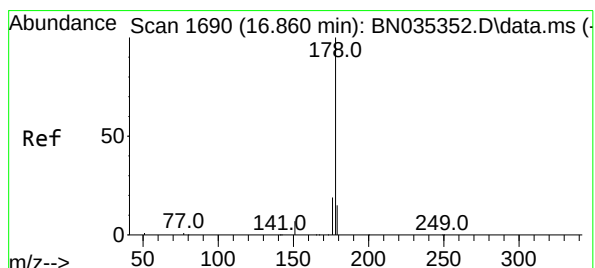
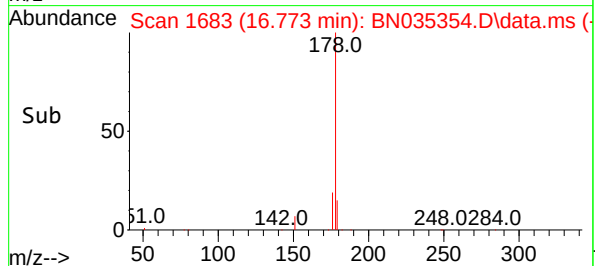
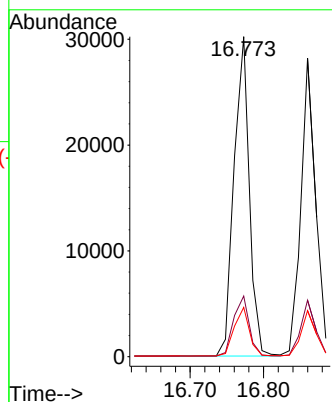
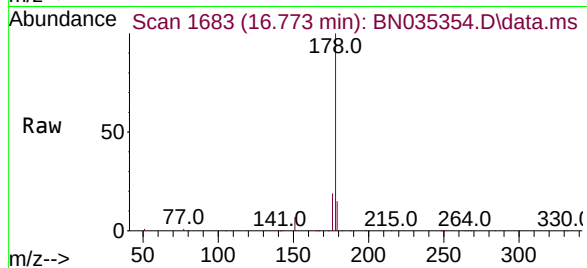
Tgt Ion:178 Resp: 43698

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

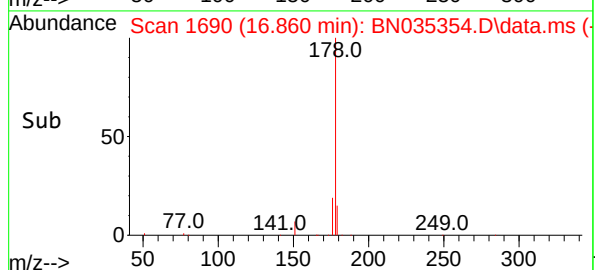
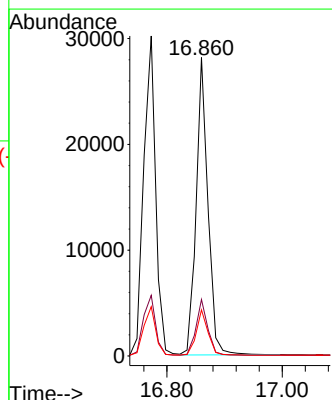
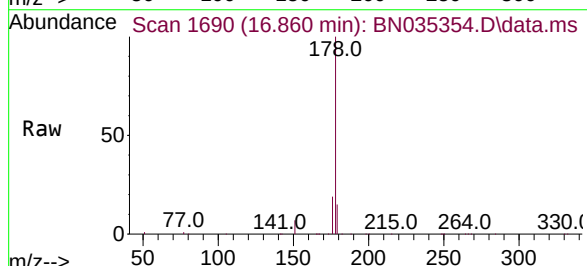
Tgt Ion:178 Resp: 39964

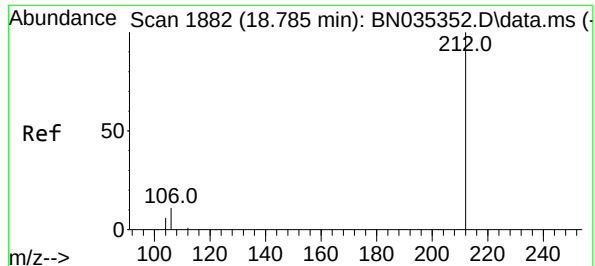
Ion Ratio Lower Upper

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

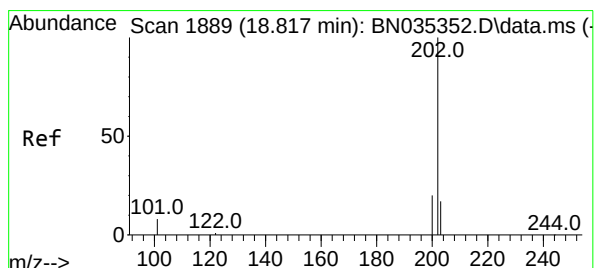
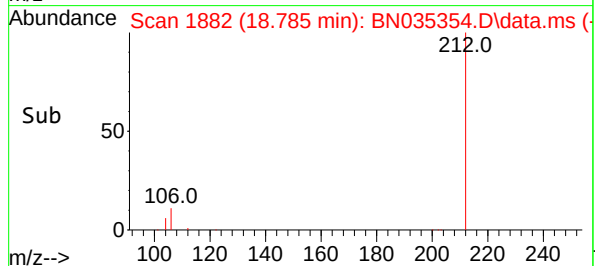
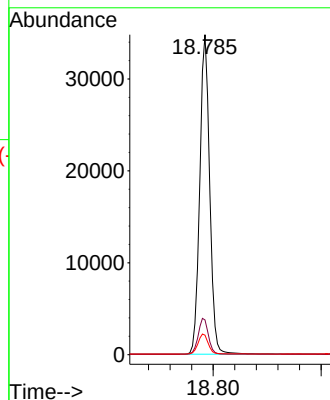
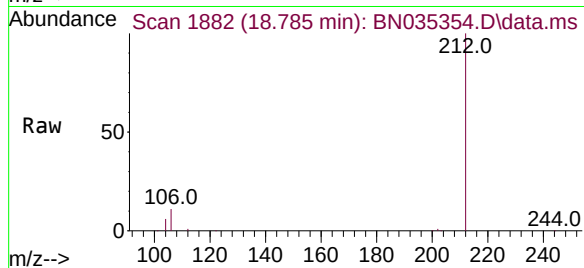
Tgt Ion:212 Resp: 44338

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

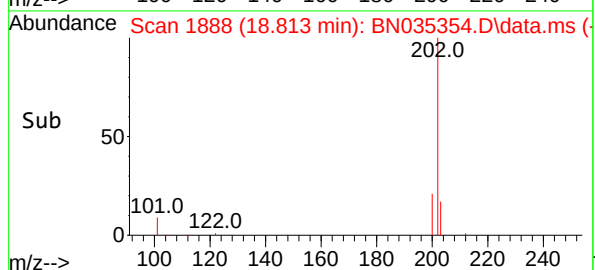
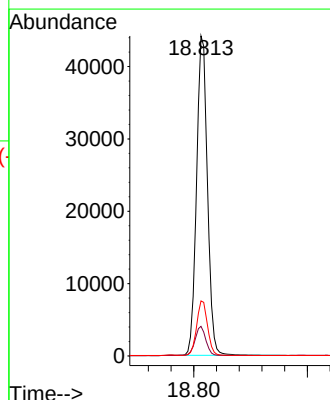
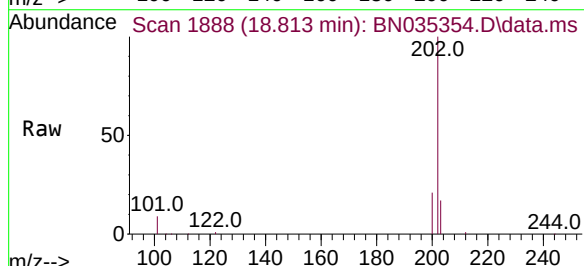
Tgt Ion:202 Resp: 58605

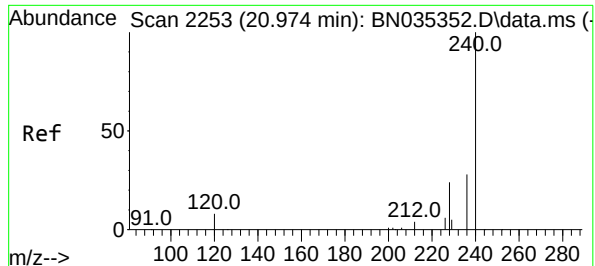
Ion Ratio Lower Upper

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

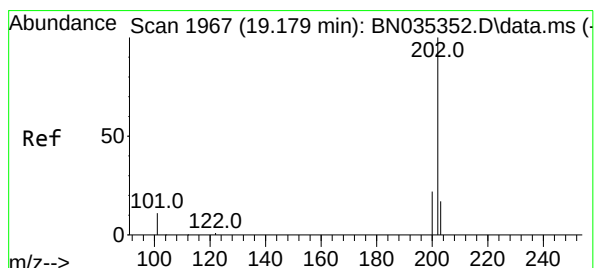
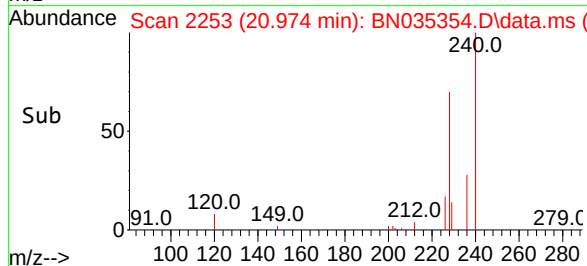
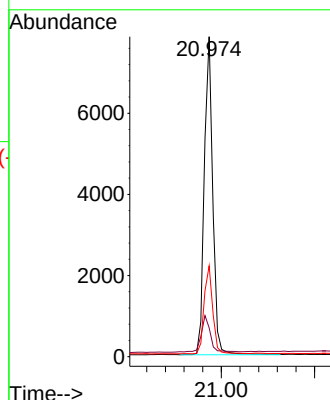
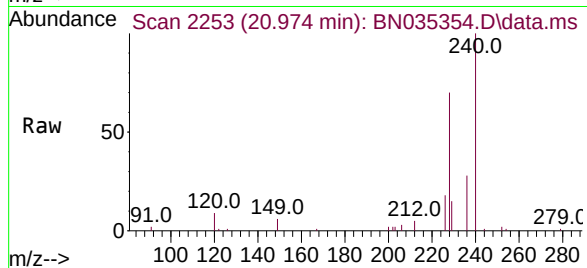
Tgt Ion:240 Resp: 9905

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

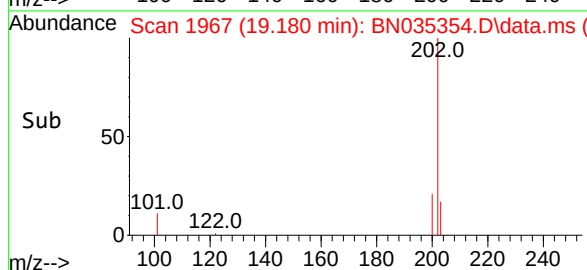
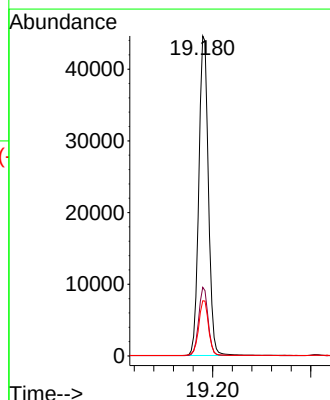
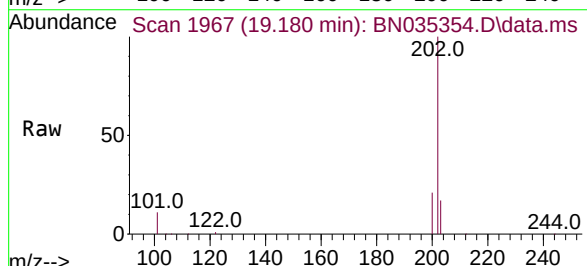
Tgt Ion:202 Resp: 60164

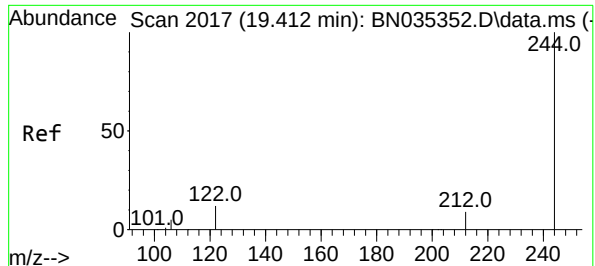
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

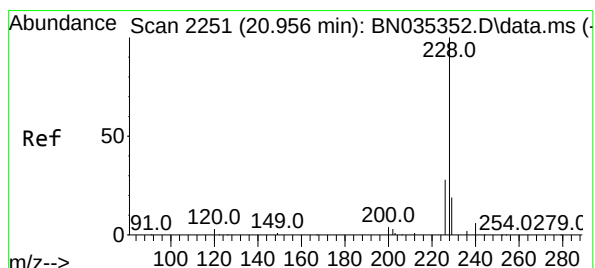
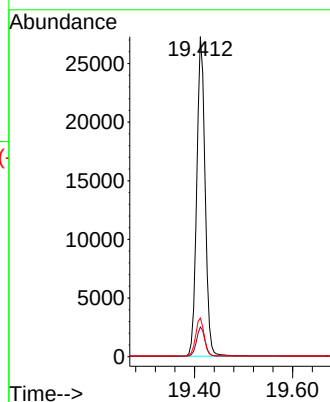
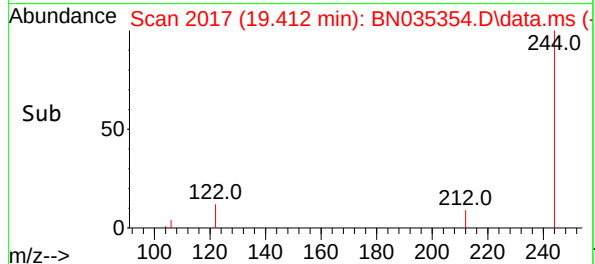
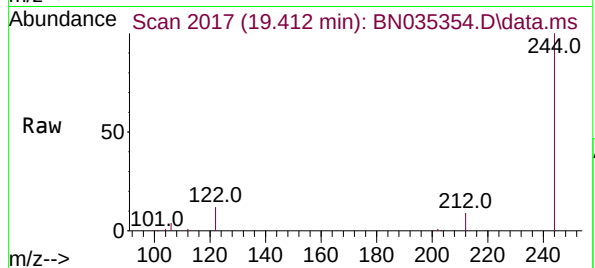




#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

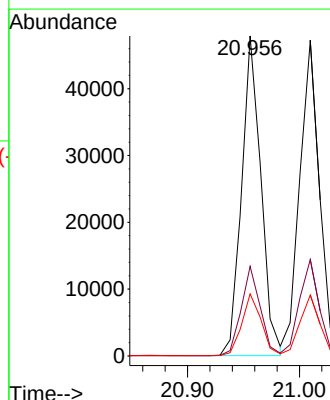
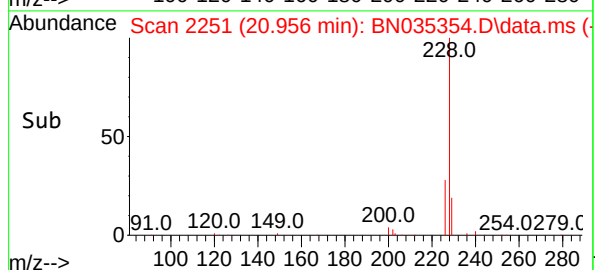
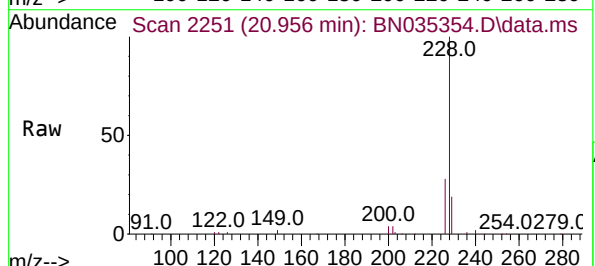
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

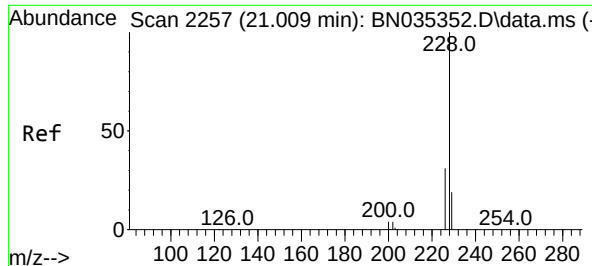
Tgt Ion:244 Resp: 32174
Ion Ratio Lower Upper
244 100
212 9.3 8.1 12.1
122 12.1 10.3 15.5



#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

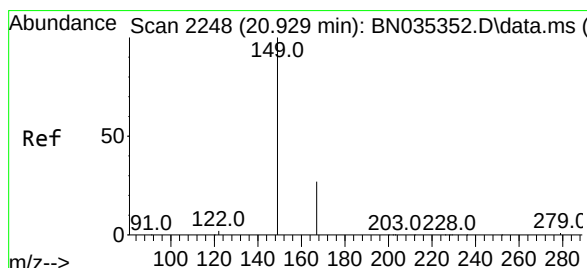
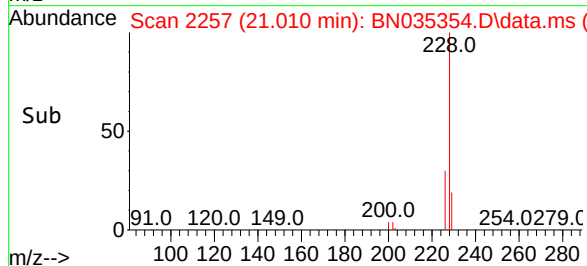
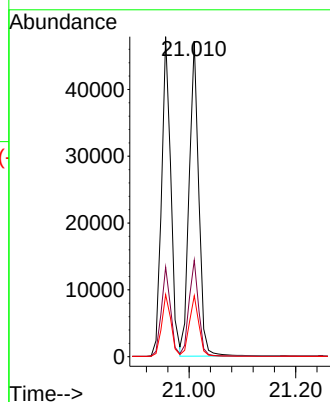
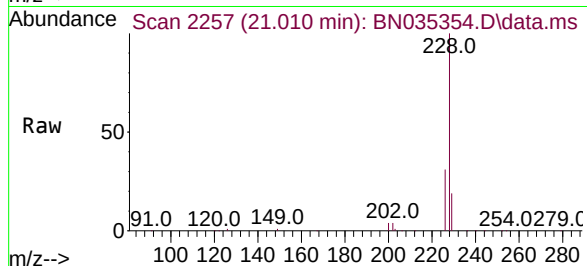
Tgt Ion:228 Resp: 58919

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

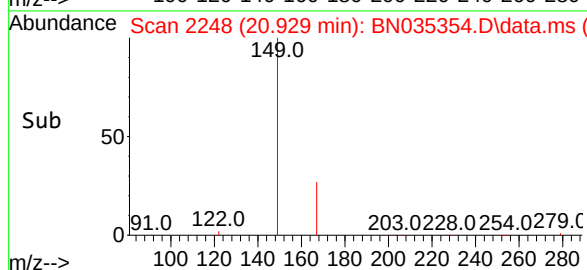
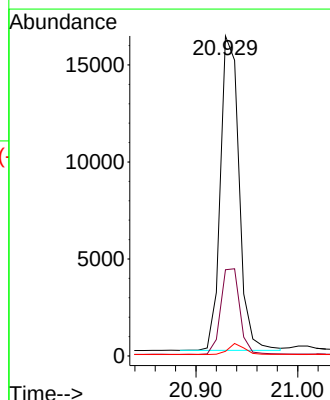
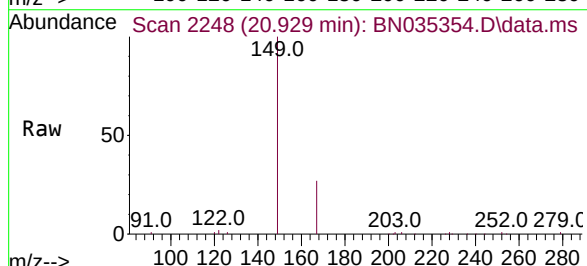
Tgt Ion:149 Resp: 20598

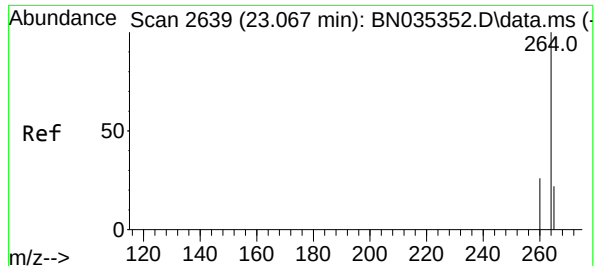
Ion Ratio Lower Upper

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

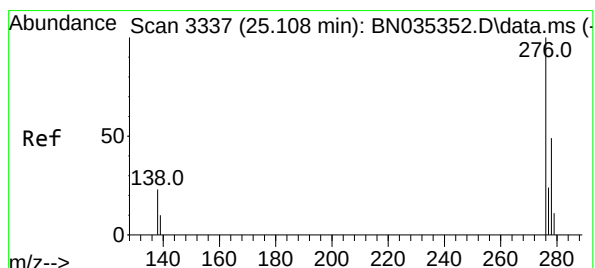
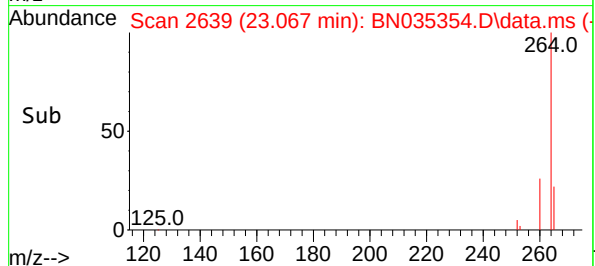
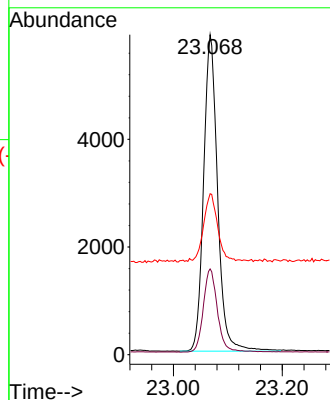
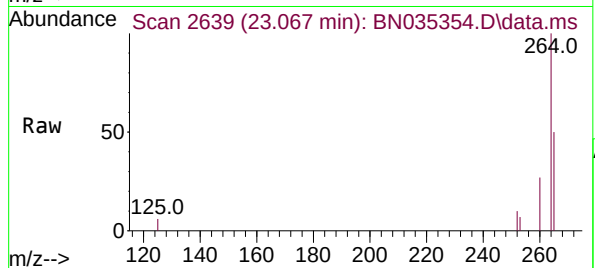
Tgt Ion:264 Resp: 10469

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

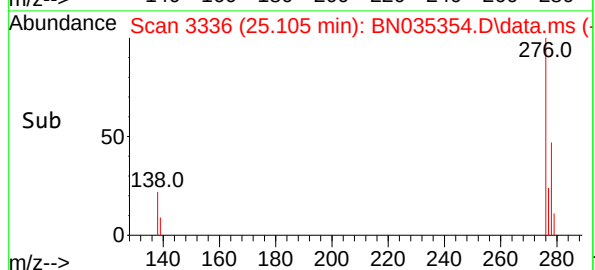
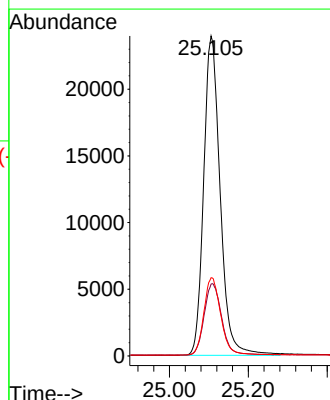
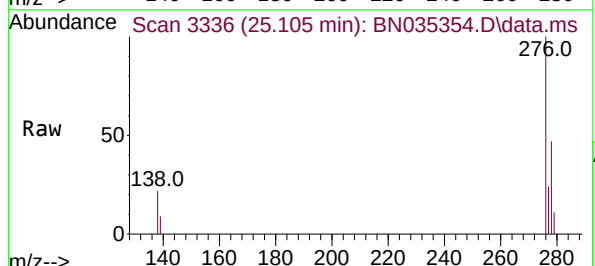
Tgt Ion:276 Resp: 69517

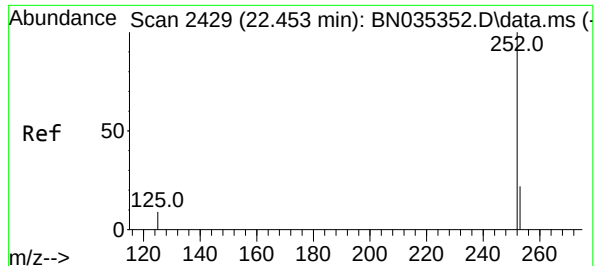
Ion Ratio Lower Upper

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

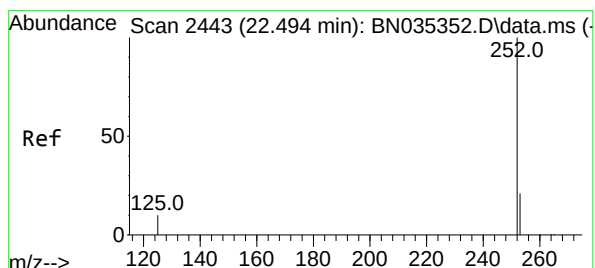
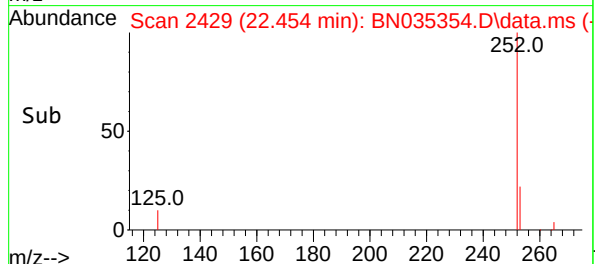
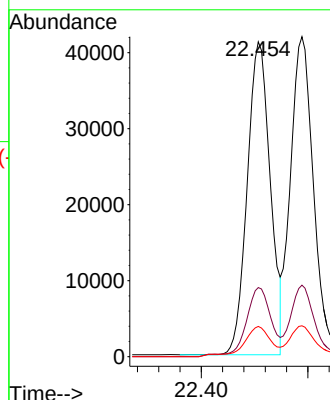
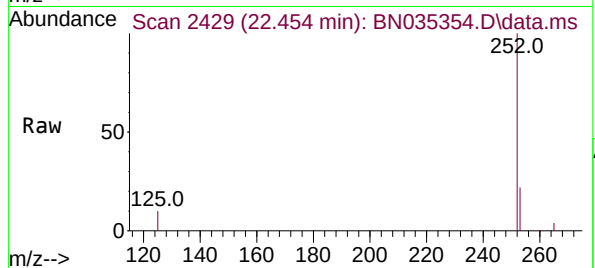
Tgt Ion:252 Resp: 76506

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

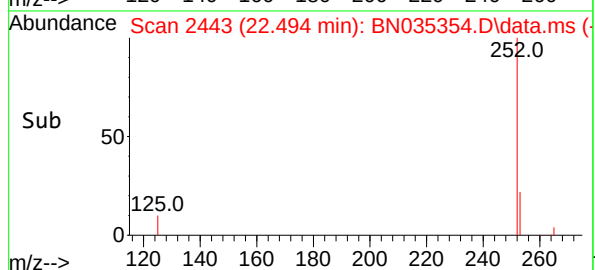
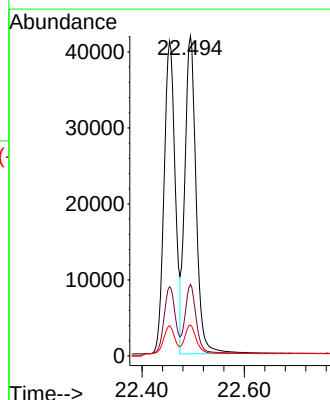
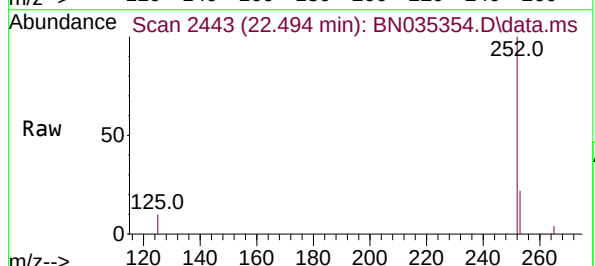
Tgt Ion:252 Resp: 63925

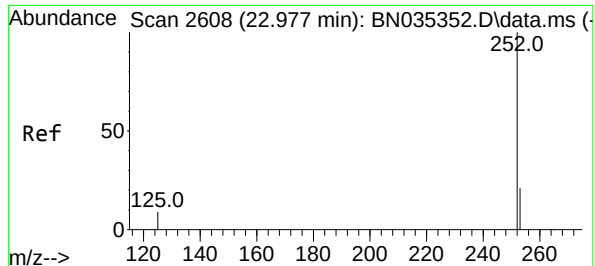
Ion Ratio Lower Upper

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

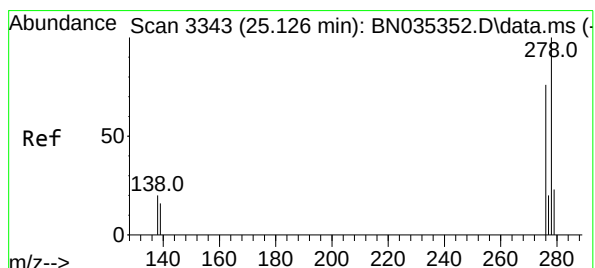
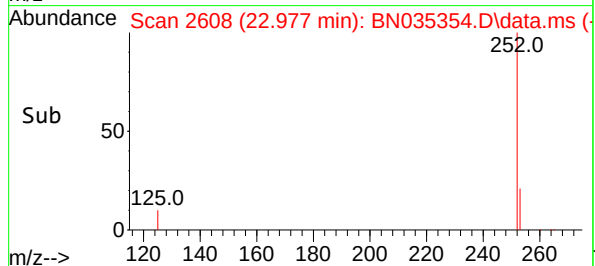
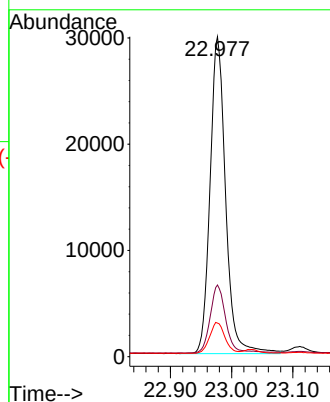
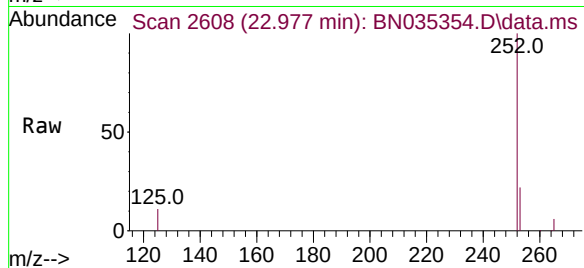
Tgt Ion:252 Resp: 52595

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

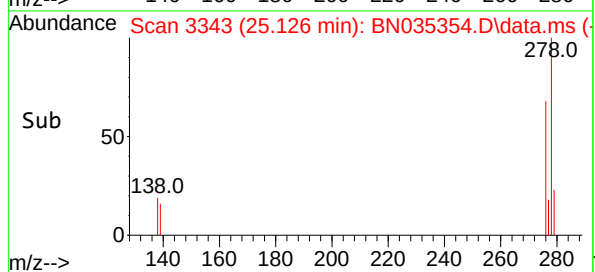
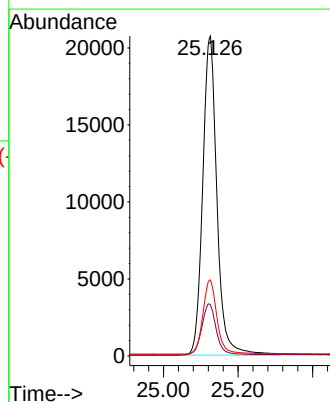
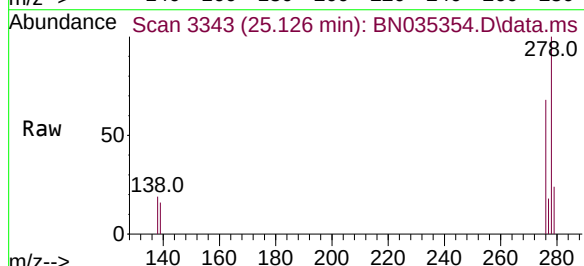
Tgt Ion:278 Resp: 55068

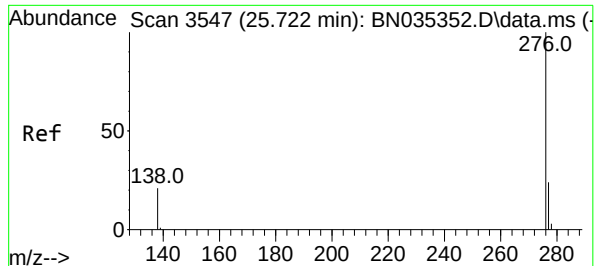
Ion Ratio Lower Upper

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

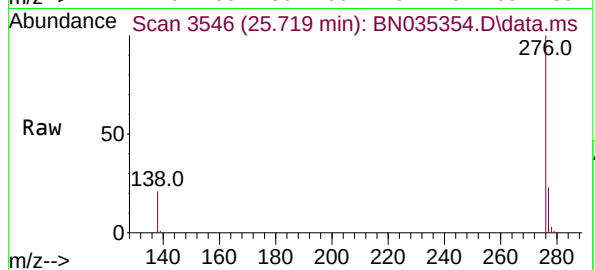
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



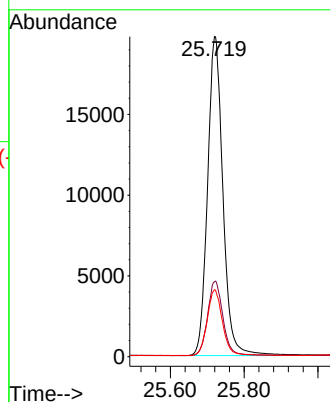
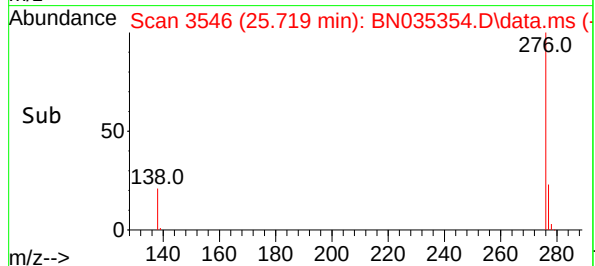
Tgt Ion:276 Resp: 56947

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)

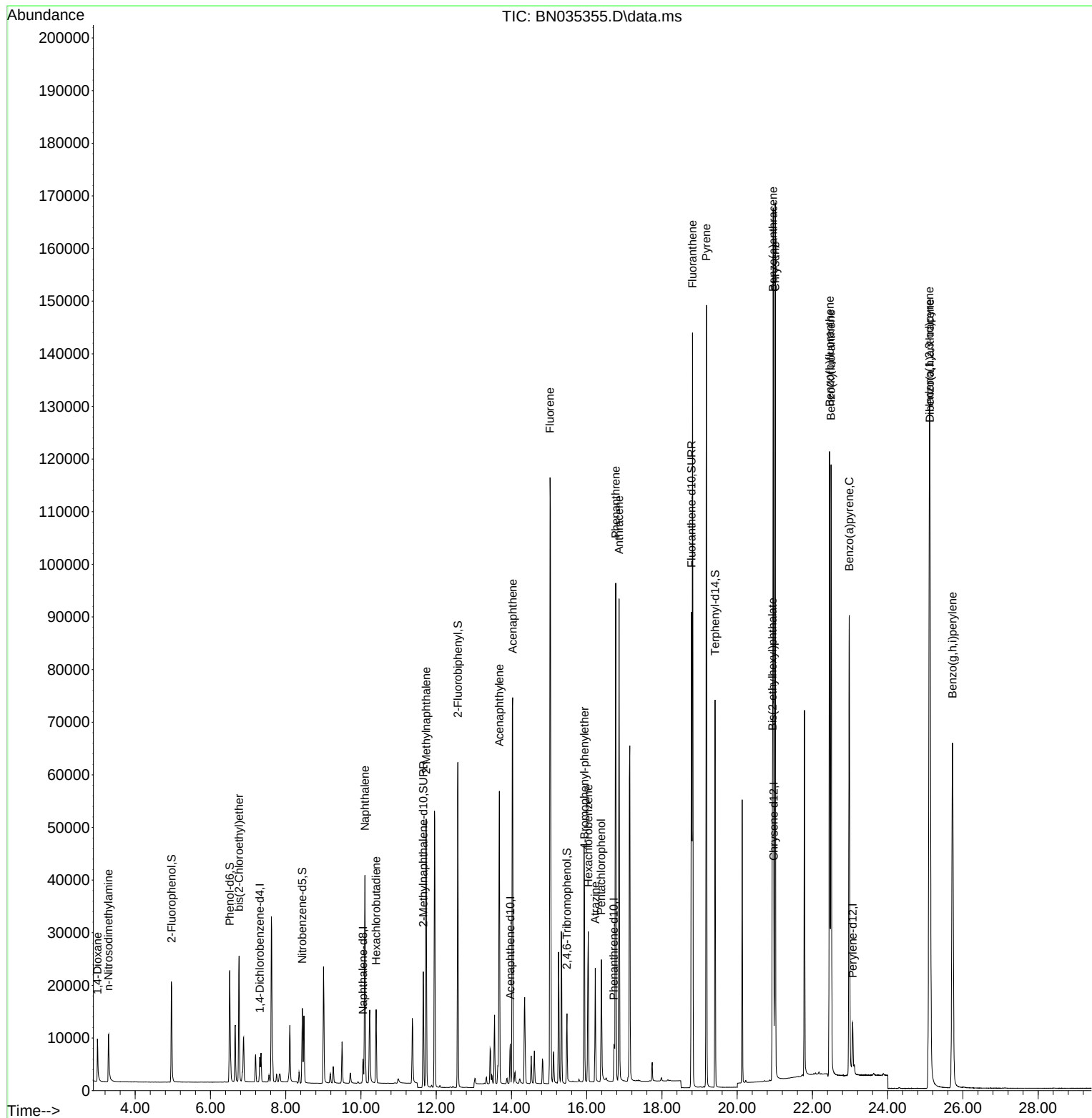
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng	0.00
35) Perylene-d12	23.067	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

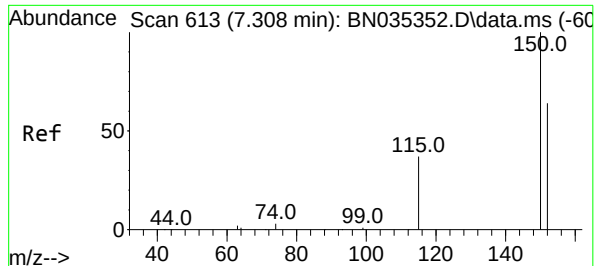
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

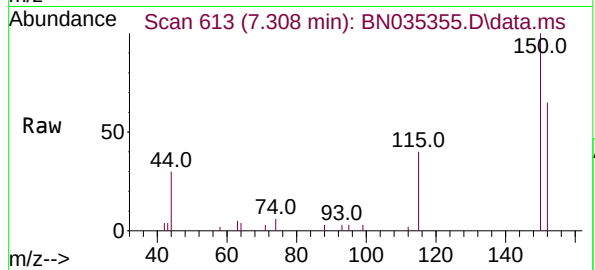
Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



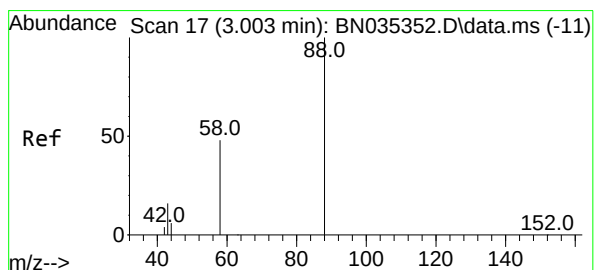
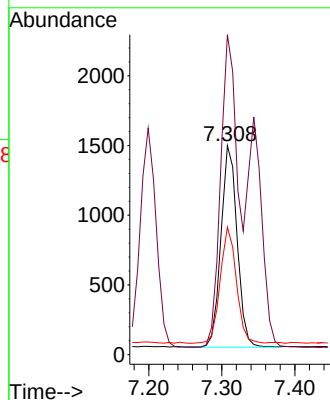
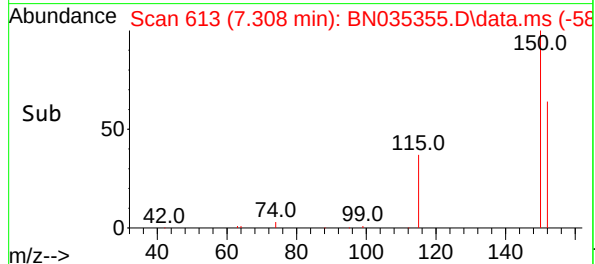


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

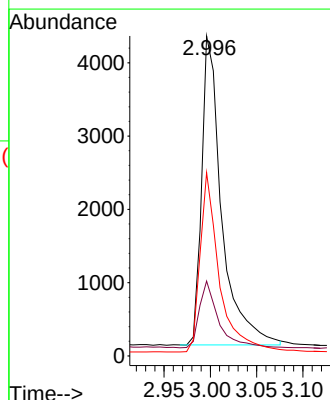
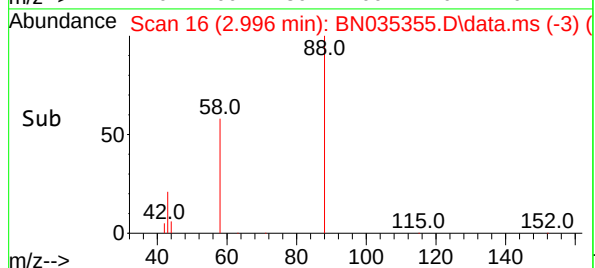
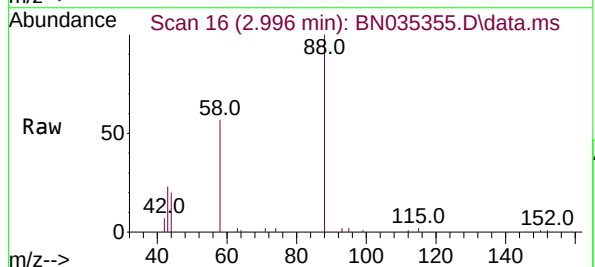


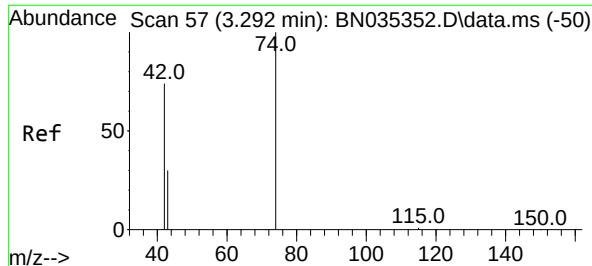
Tgt Ion:152 Resp: 2226
Ion Ratio Lower Upper
152 100
150 153.0 124.0 186.0
115 61.0 49.6 74.4



#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360
Ion Ratio Lower Upper
88 100
43 20.6 17.2 25.8
58 55.4 44.5 66.7

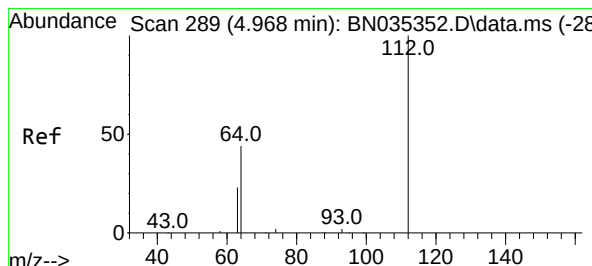
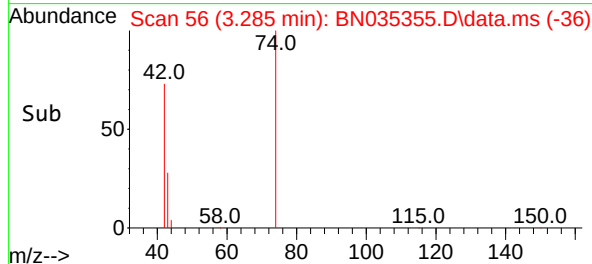
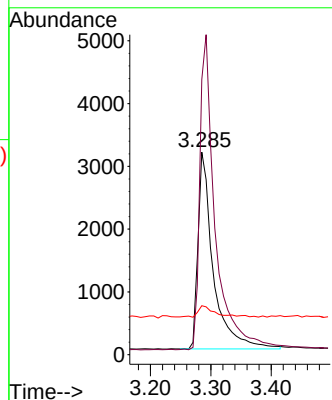
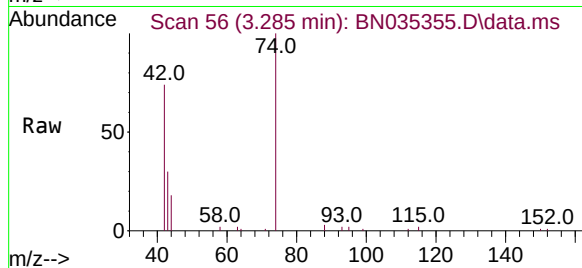




#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

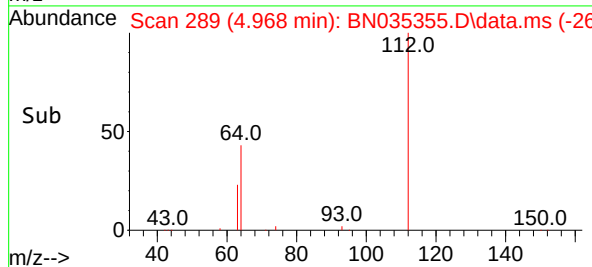
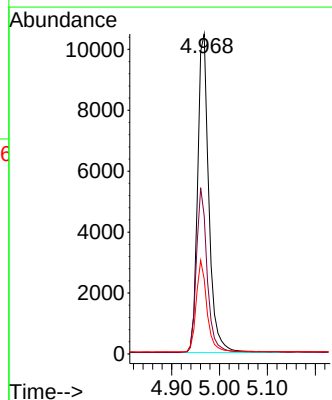
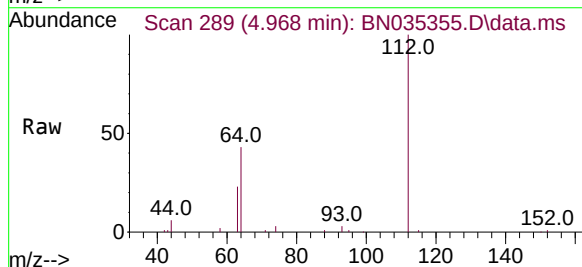
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

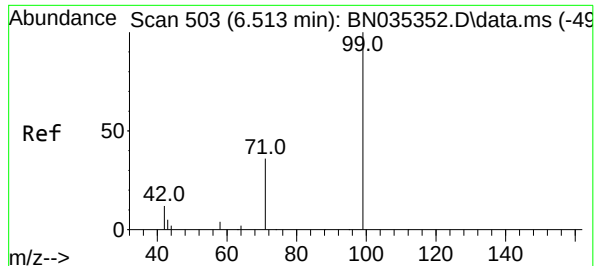
Tgt Ion: 42 Resp: 5524
Ion Ratio Lower Upper
42 100
74 162.0 124.9 187.3
44 6.4 2.2 3.4#



#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 112 Resp: 16991
Ion Ratio Lower Upper
112 100
64 49.7 39.8 59.8
63 27.1 21.0 31.6

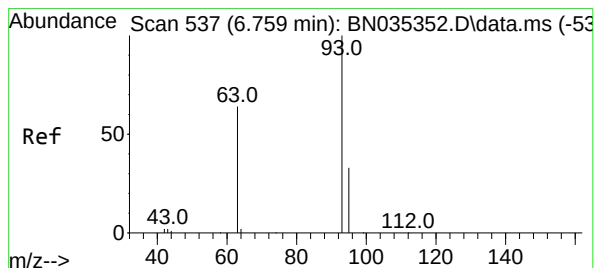
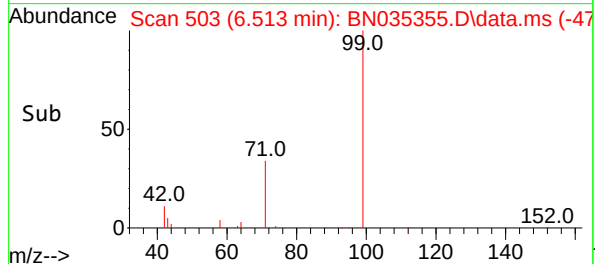
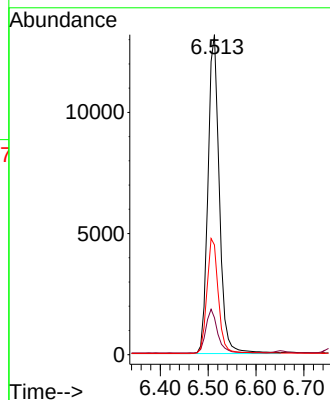
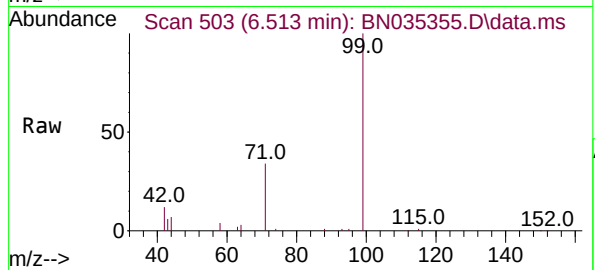




#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

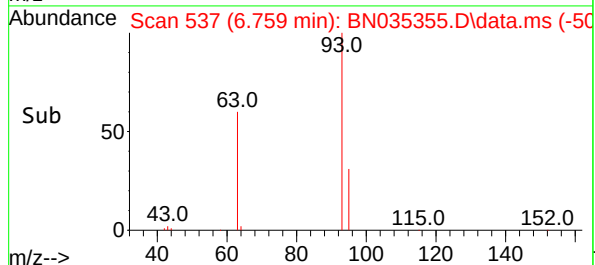
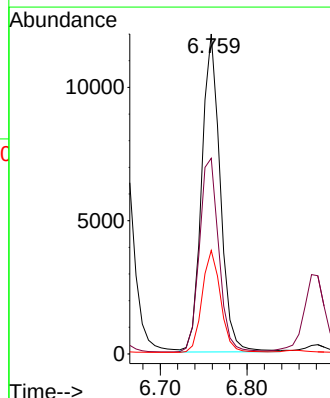
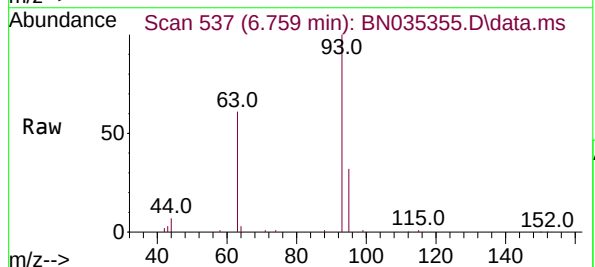
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

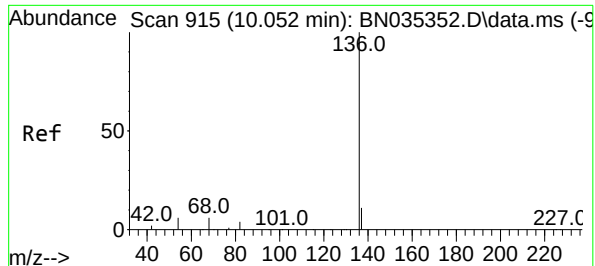
Tgt Ion: 99 Resp: 21633
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.5 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762
Ion Ratio Lower Upper
93 100
63 63.6 50.4 75.6
95 32.0 25.7 38.5

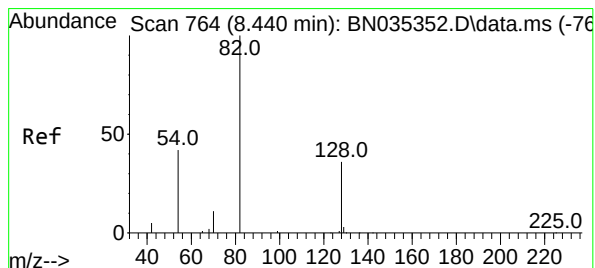
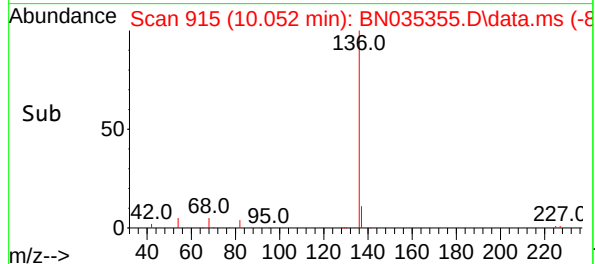
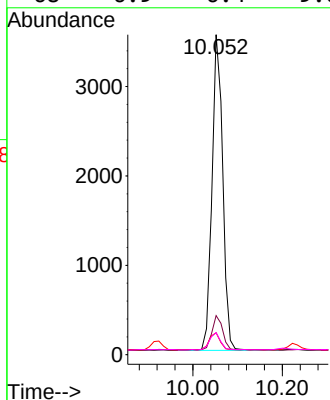
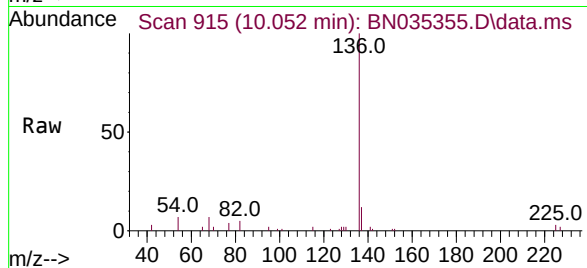




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

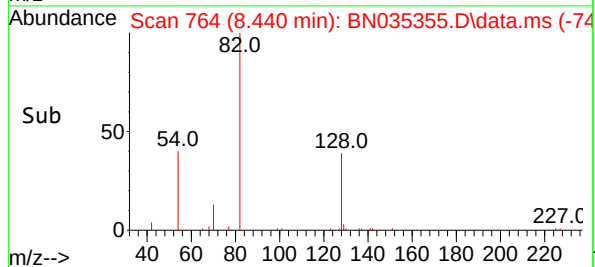
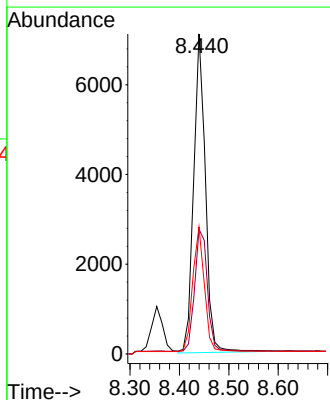
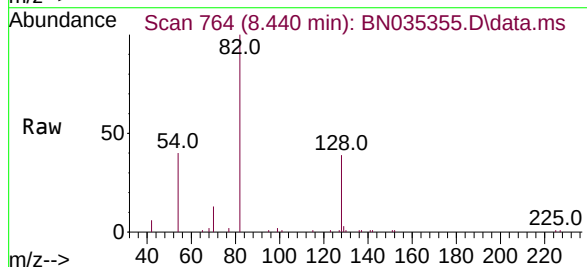
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

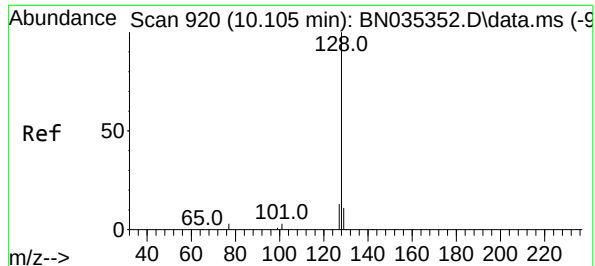
Tgt Ion:	136	Resp:	5857
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6



#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:	82	Resp:	11759
Ion	Ratio	Lower	Upper
82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1

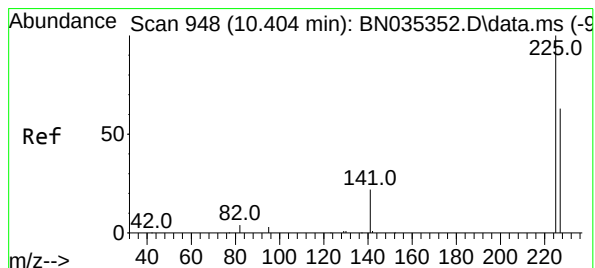
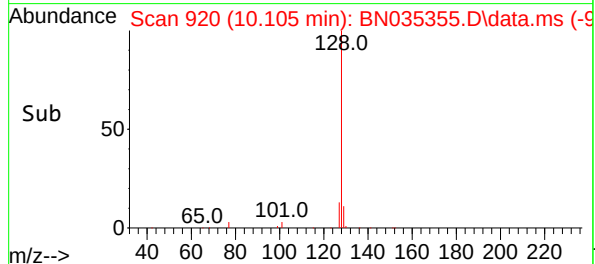
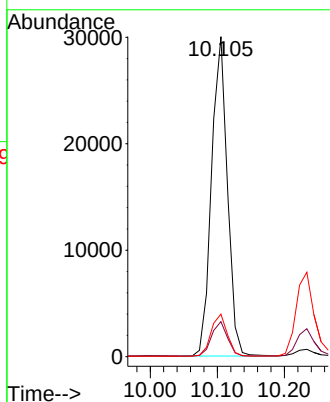
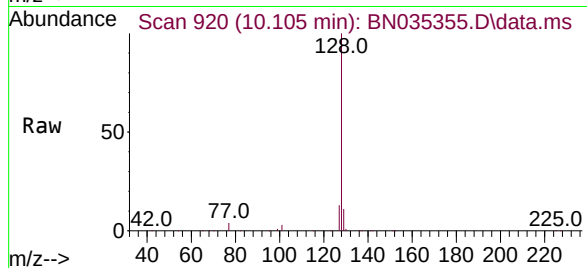




#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

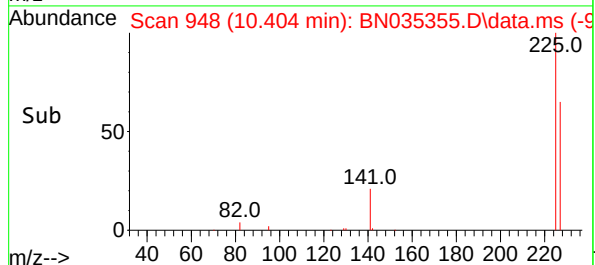
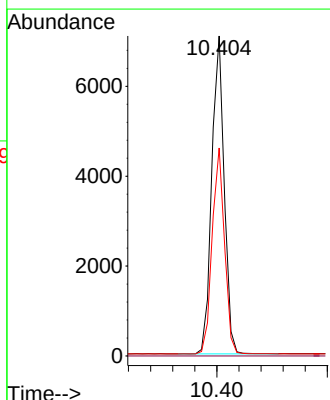
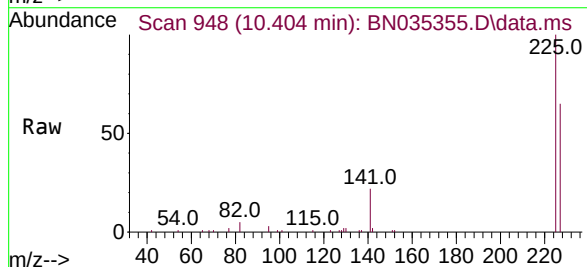
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

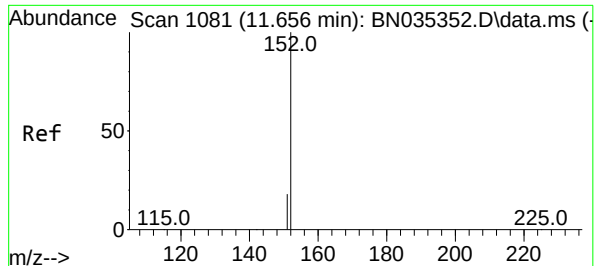
Tgt Ion:128 Resp: 49151
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.3 76.9

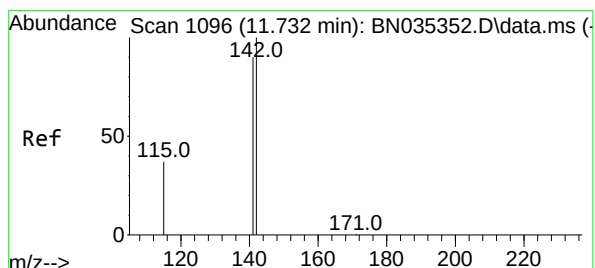
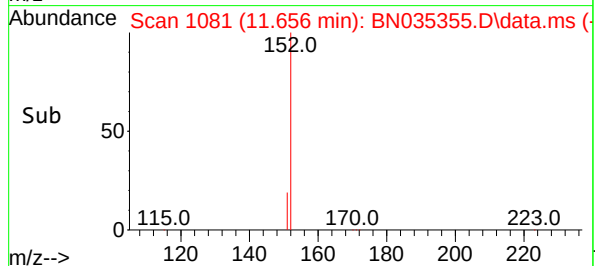
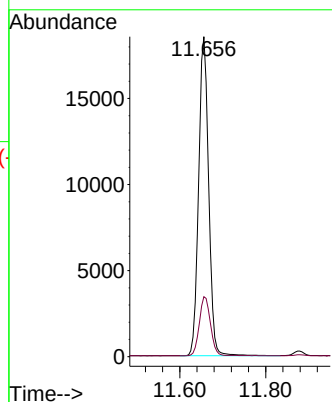
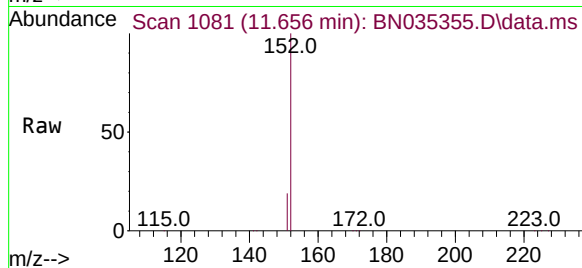




#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

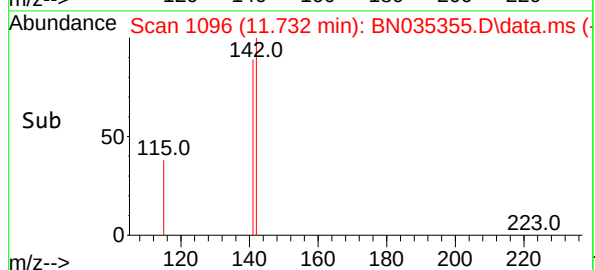
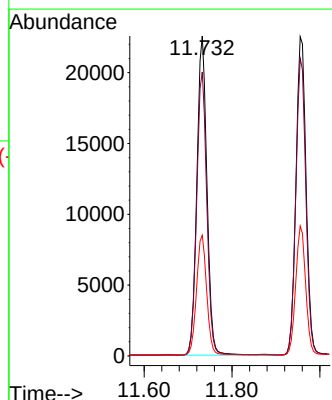
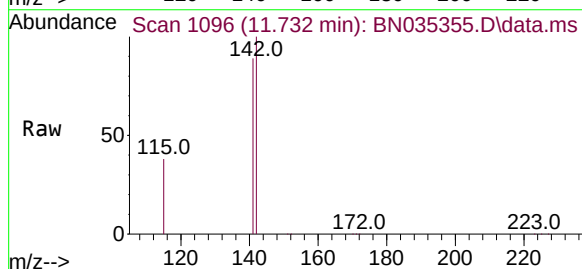
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

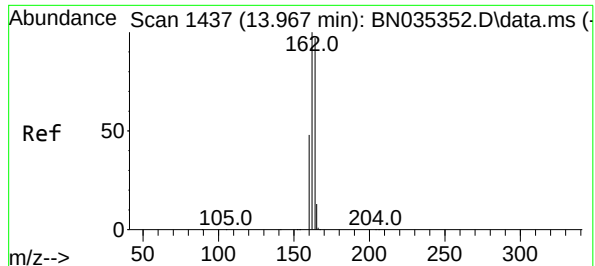
Tgt Ion:152 Resp: 29957
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121
Ion Ratio Lower Upper
142 100
141 88.7 72.2 108.4
115 37.7 31.4 47.0

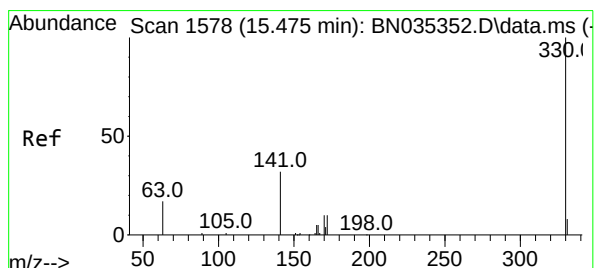
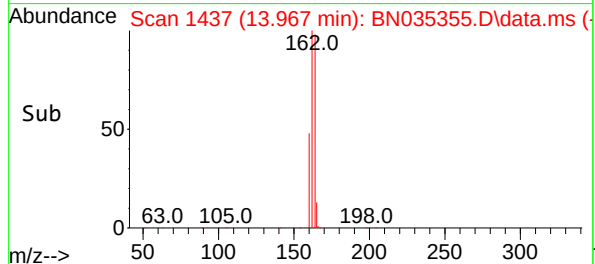
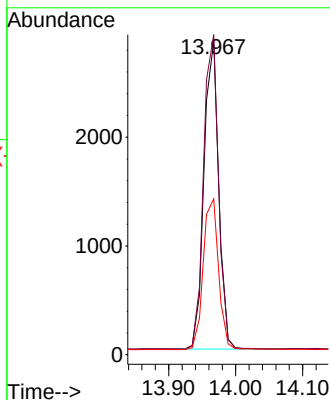
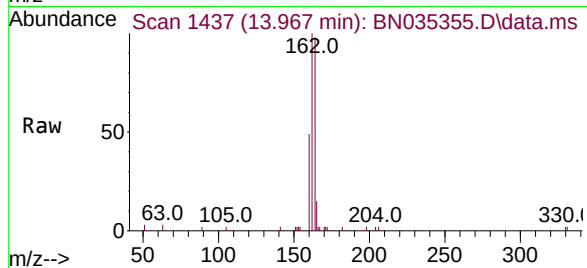




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

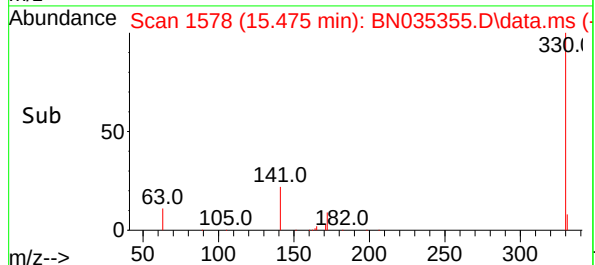
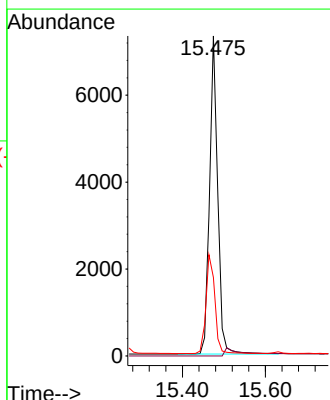
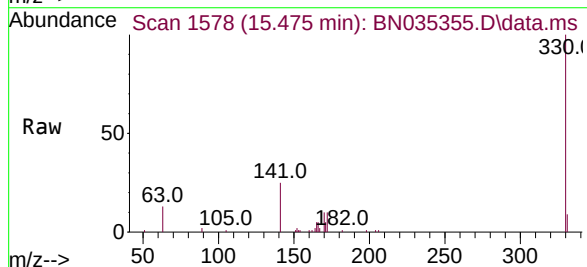
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

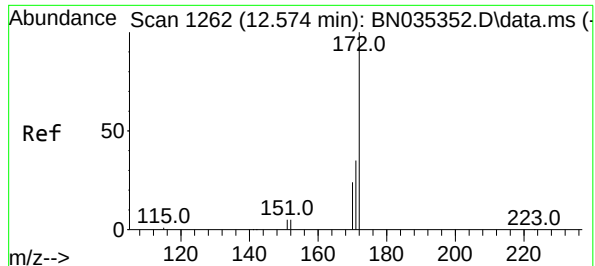
Tgt Ion:164 Resp: 4307
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.7 40.1 60.1



#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

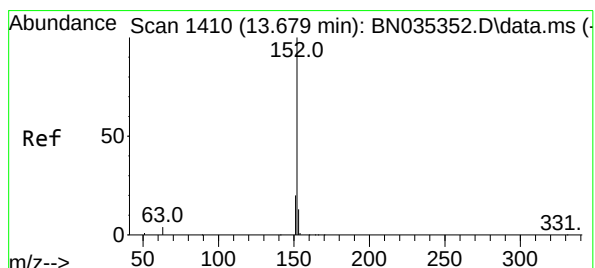
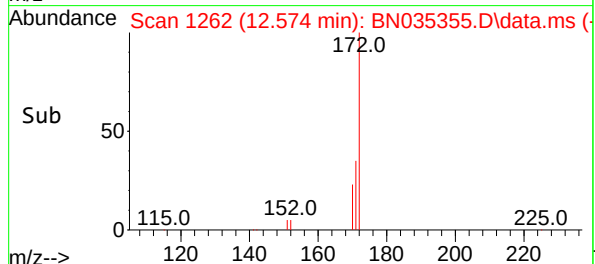
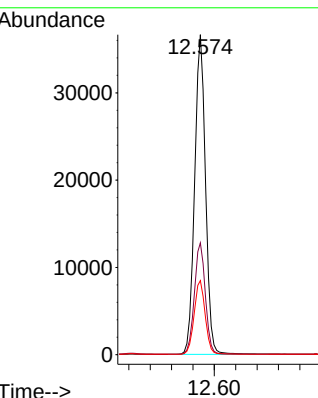
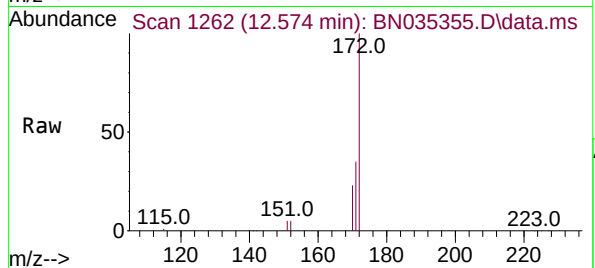
Tgt Ion:172 Resp: 52048

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

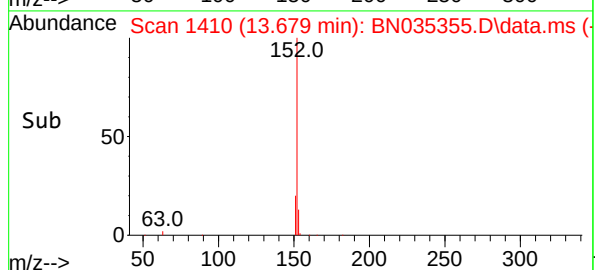
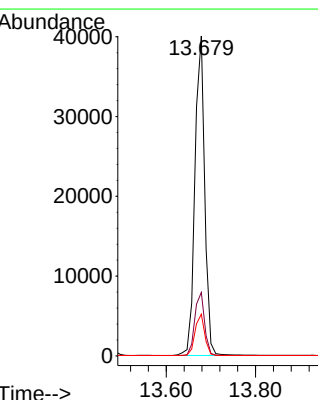
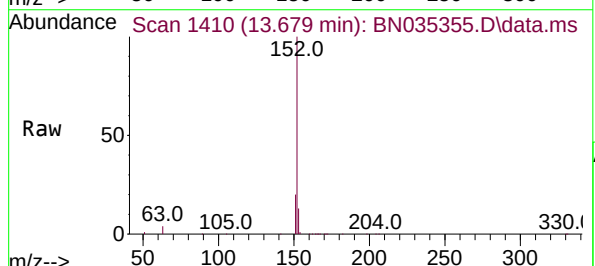
Tgt Ion:152 Resp: 60734

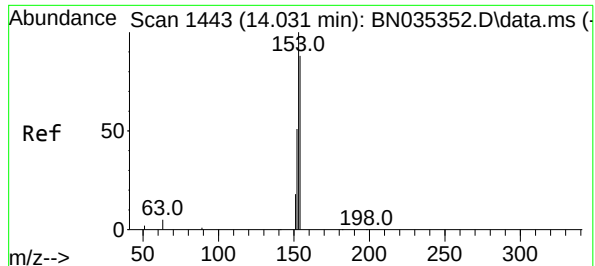
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 12.9 10.4 15.6

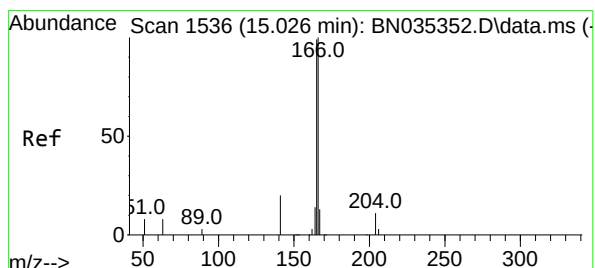
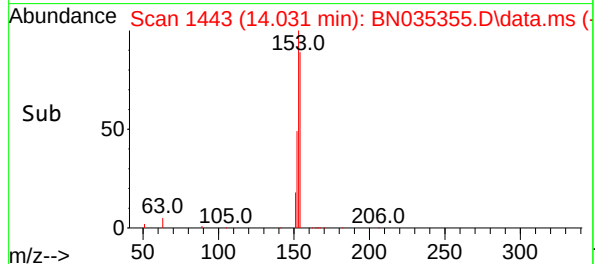
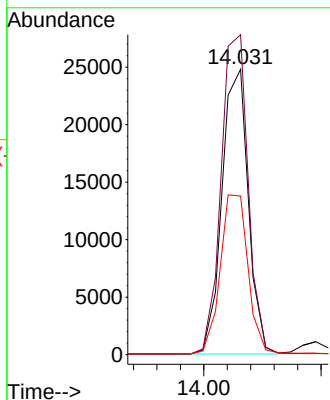
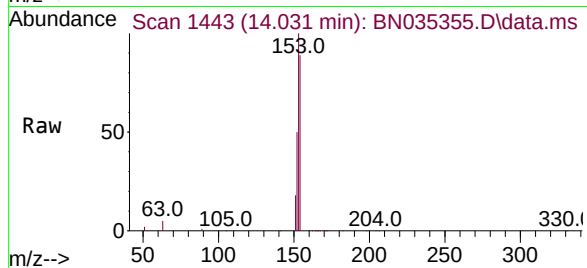




#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

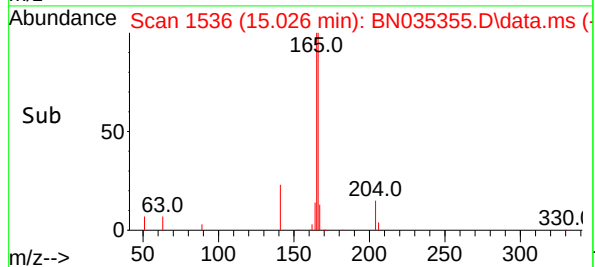
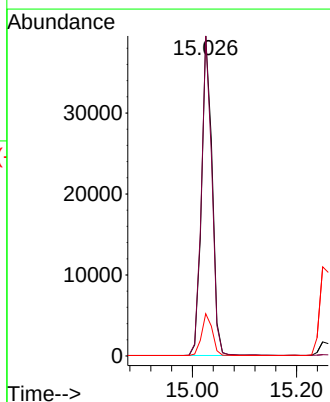
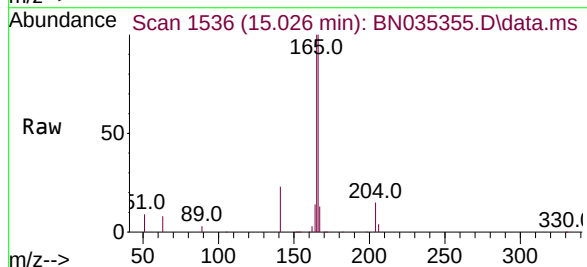
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

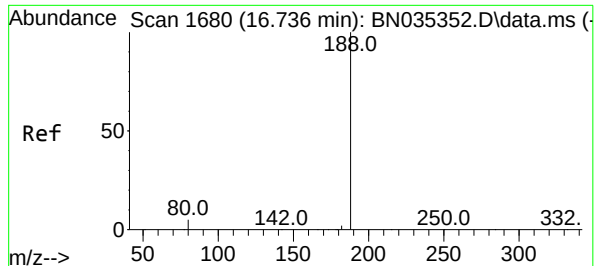
Tgt Ion:154 Resp: 38676
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 59.2 49.0 73.6



#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

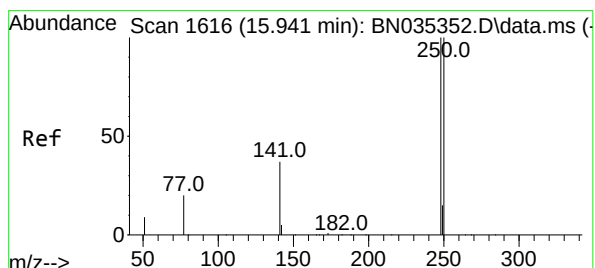
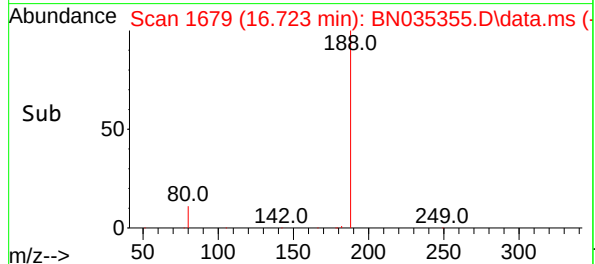
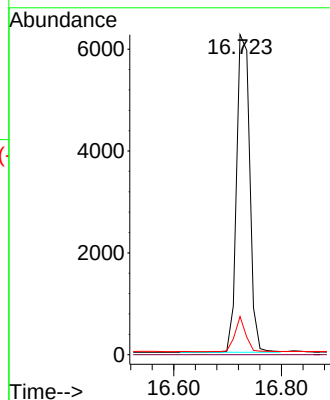
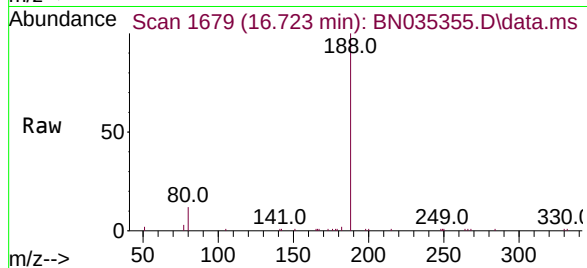
Tgt Ion:188 Resp: 10513

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

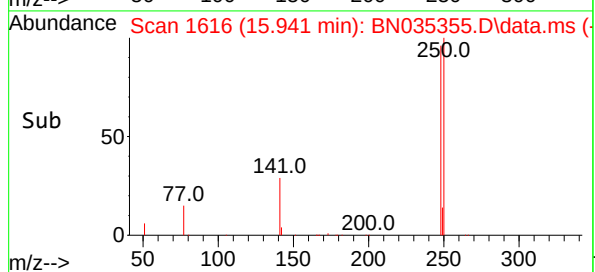
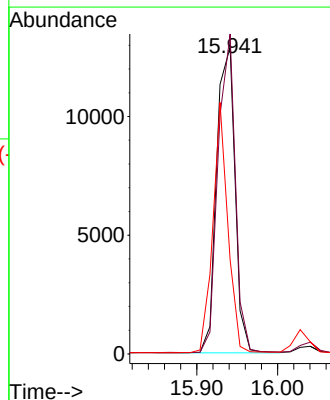
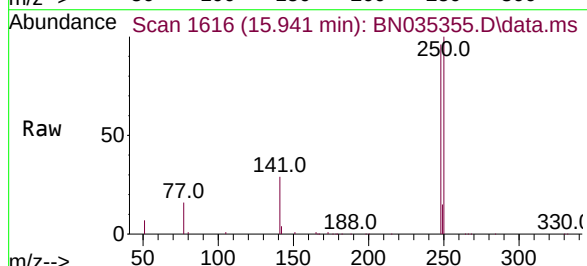
Tgt Ion:248 Resp: 20321

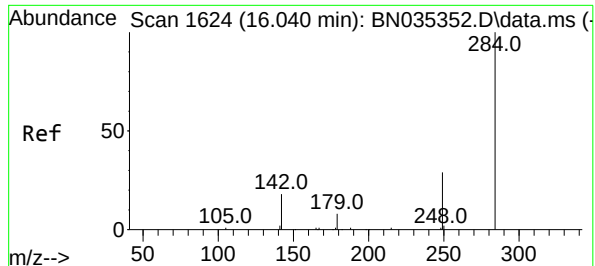
Ion Ratio Lower Upper

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

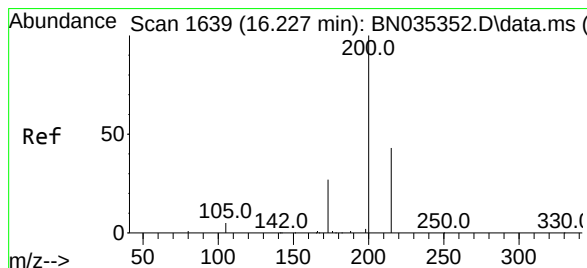
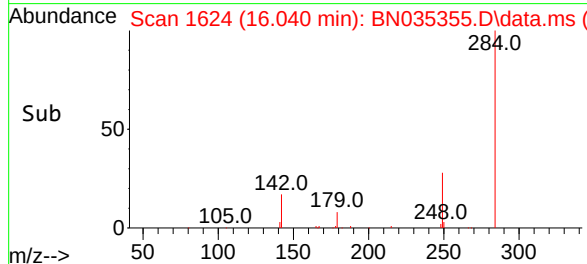
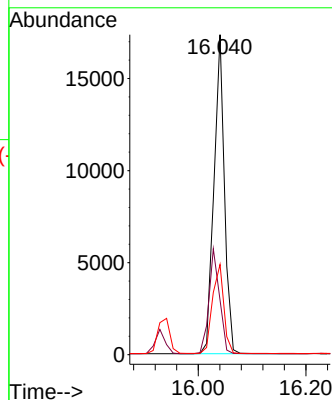
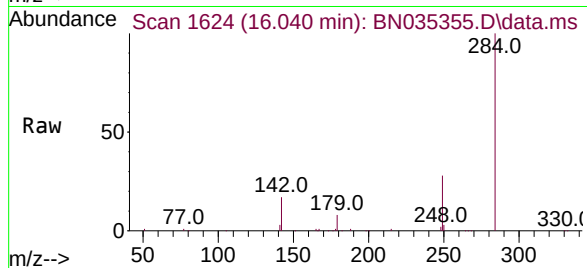
Tgt Ion:284 Resp: 23349

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

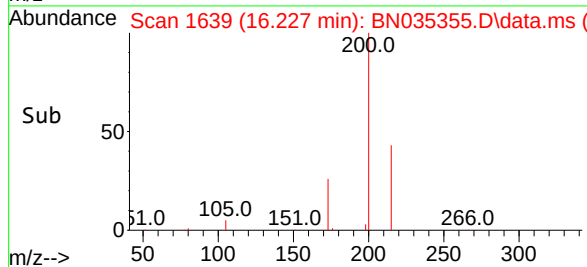
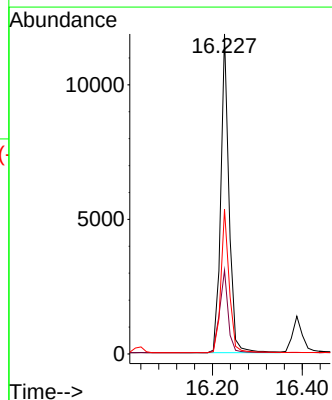
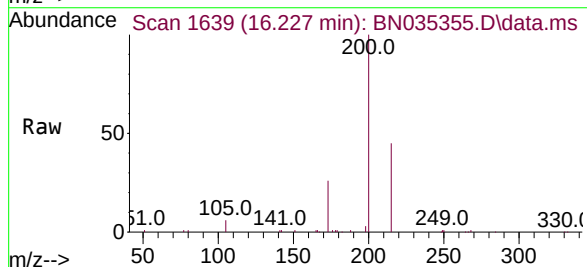
Tgt Ion:200 Resp: 15072

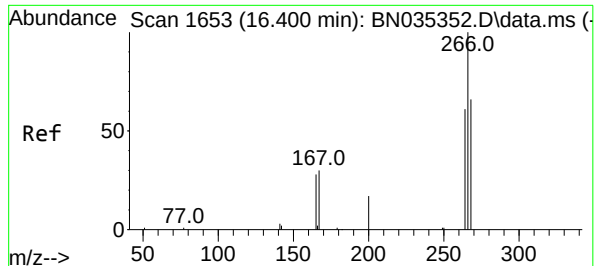
Ion Ratio Lower Upper

200 100

173 26.2 24.1 36.1

215 45.1 36.9 55.3

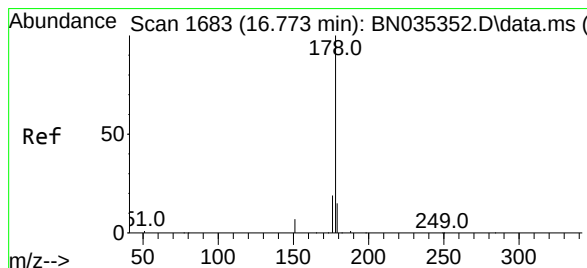
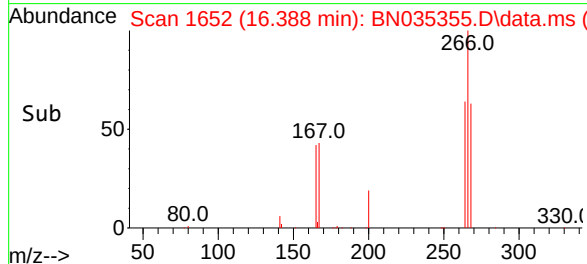
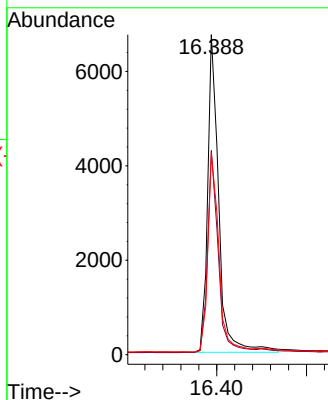
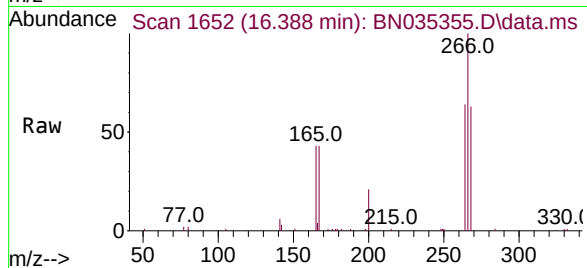




#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

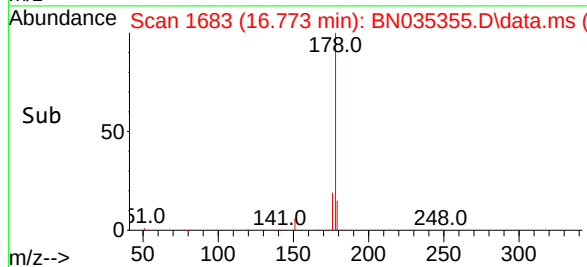
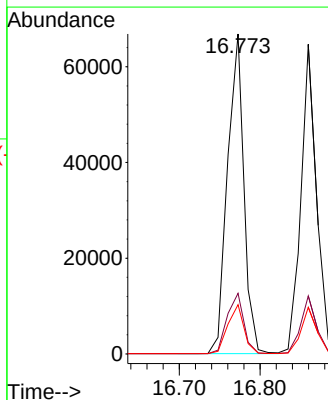
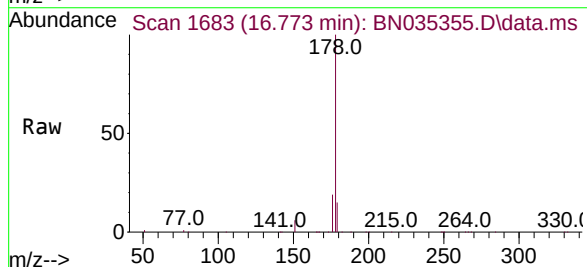
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

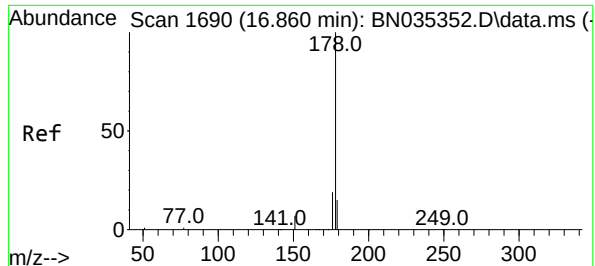
Tgt Ion:266 Resp: 11439
Ion Ratio Lower Upper
266 100
264 62.6 42.3 63.5
268 64.4 43.3 64.9



#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

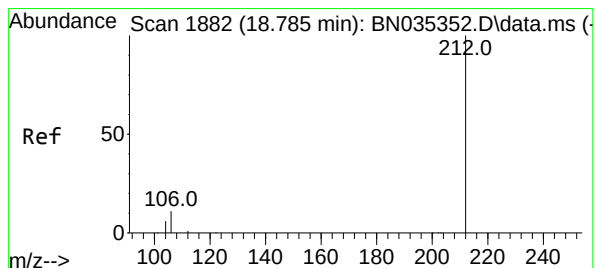
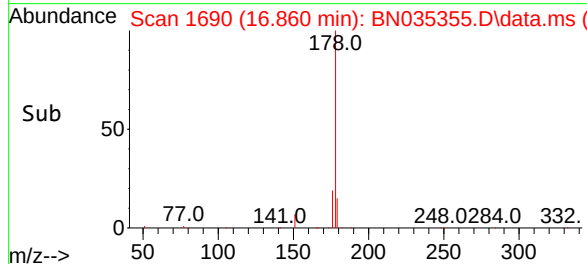
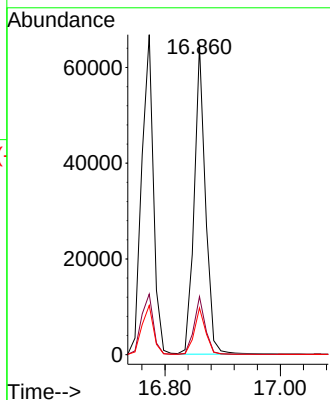
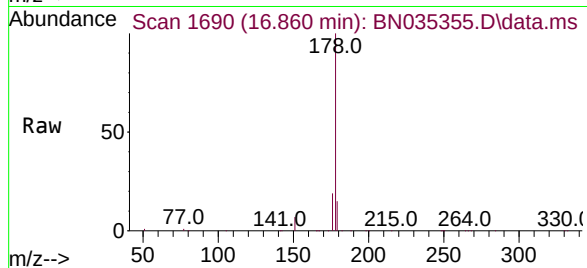




#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

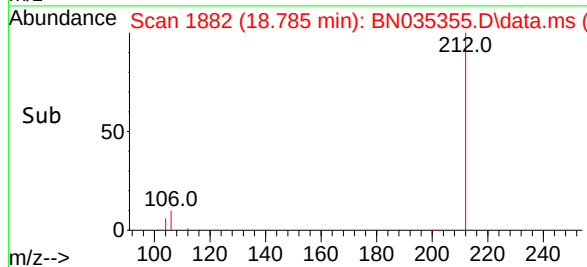
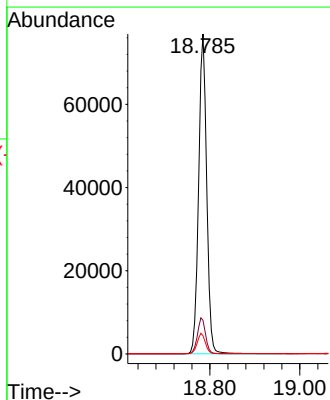
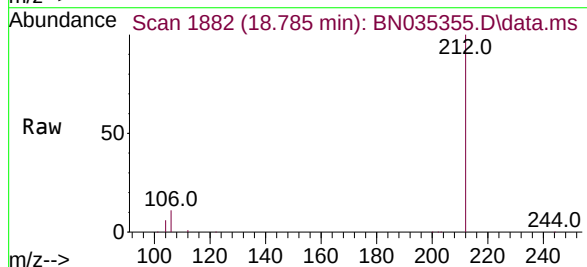
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

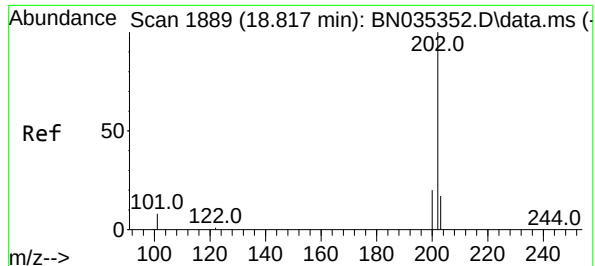
Tgt Ion:178 Resp: 87657
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.6 18.8



#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

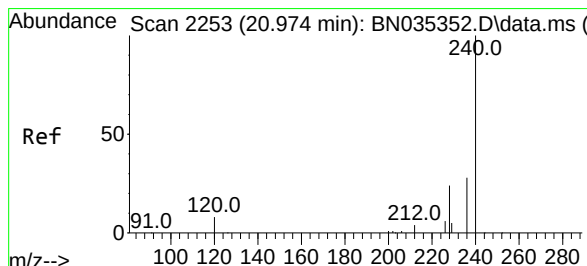
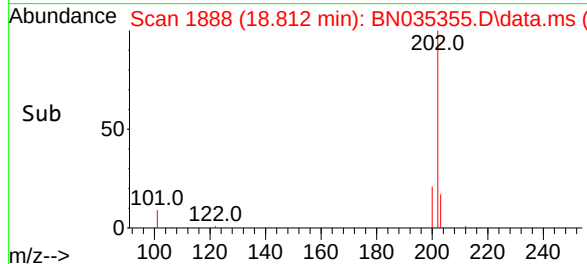
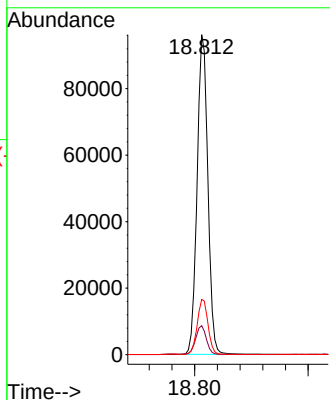
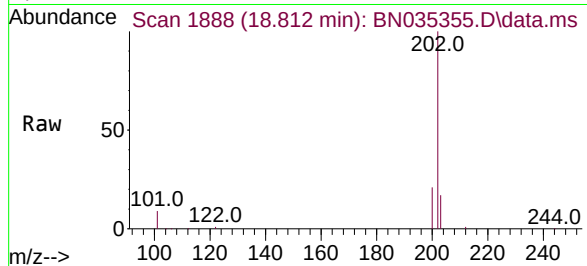




#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

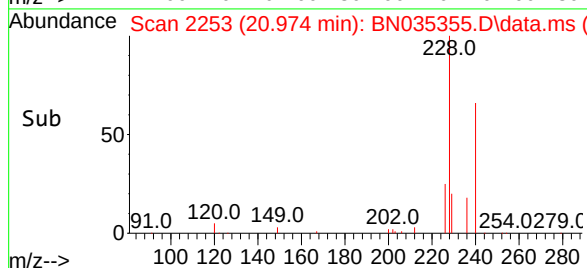
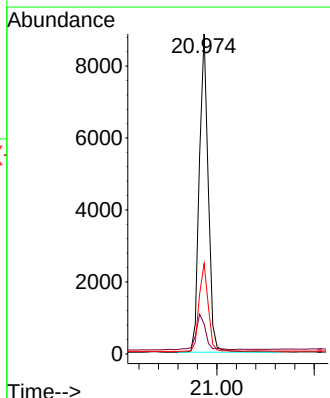
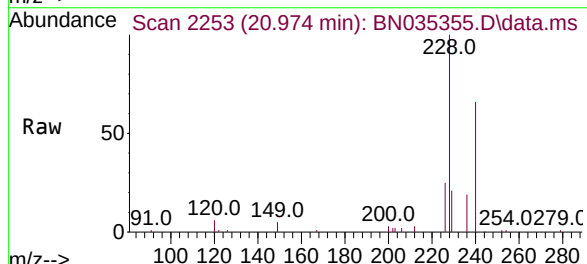
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

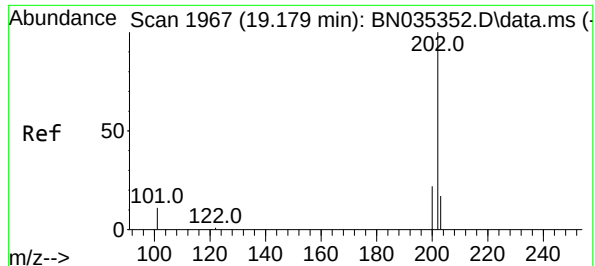
Tgt Ion:202 Resp: 125901
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.3 13.7 20.5



#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

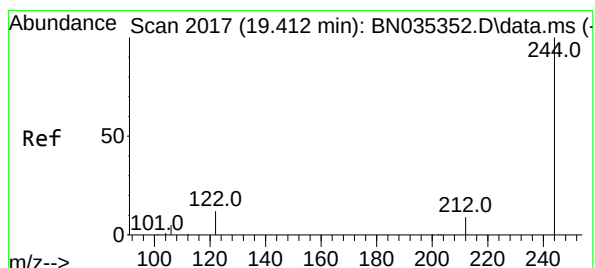
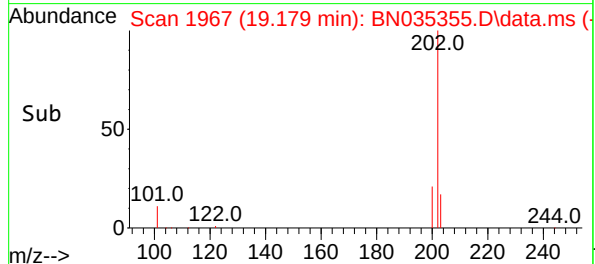
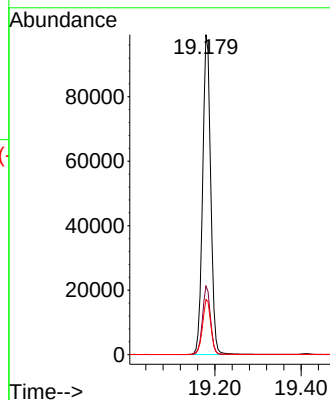
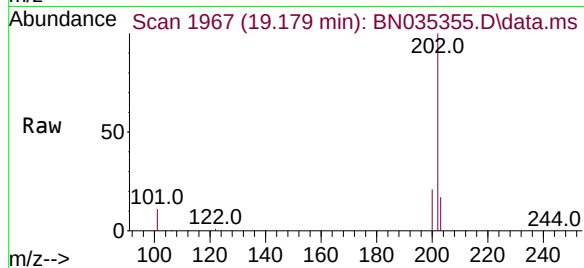




#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

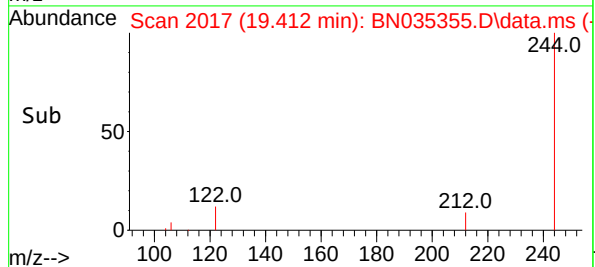
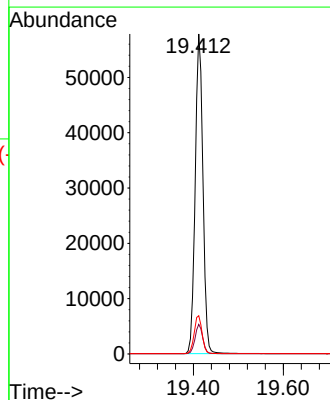
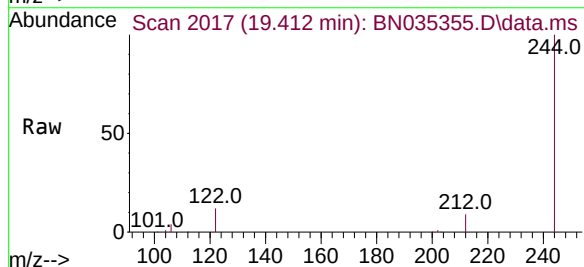
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

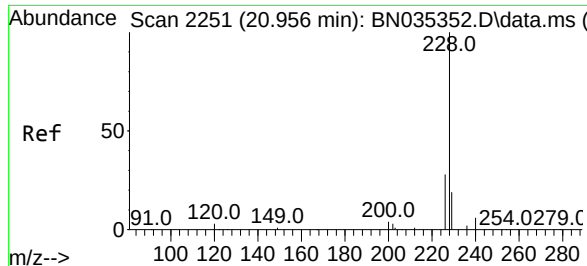
Tgt Ion:202 Resp: 129105
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5



#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

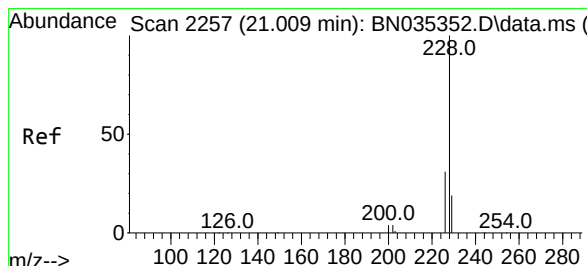
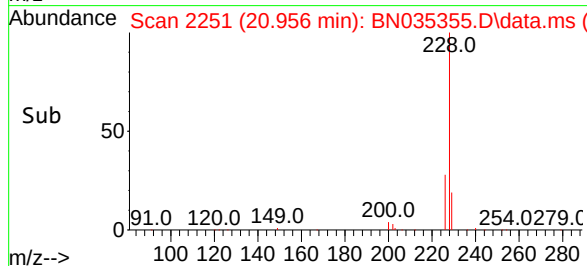
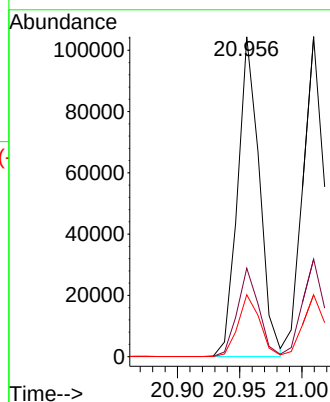
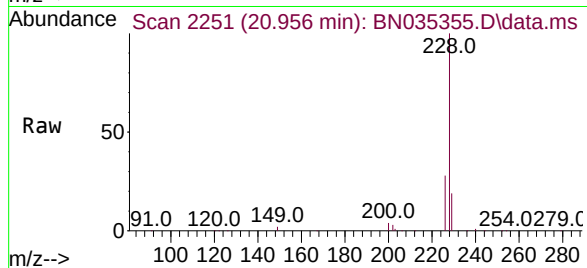




#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

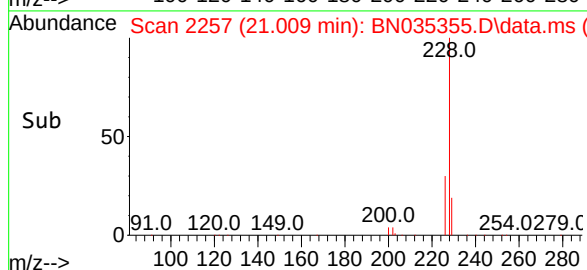
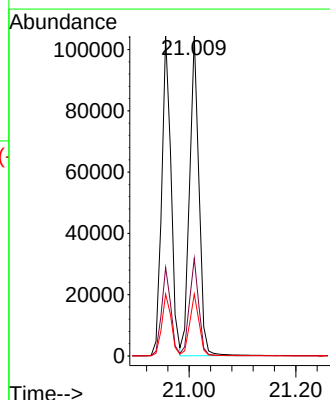
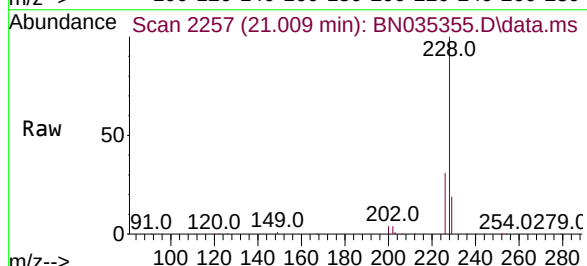
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

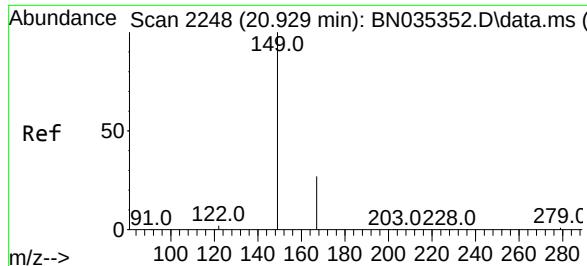
Tgt Ion:228 Resp: 126517
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 19.4 15.8 23.8



#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

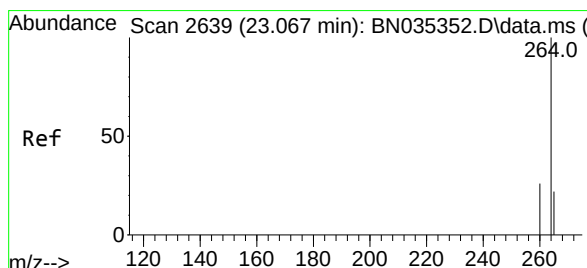
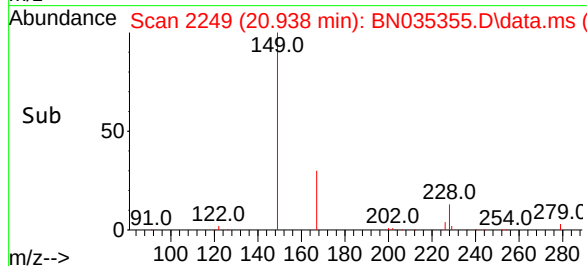
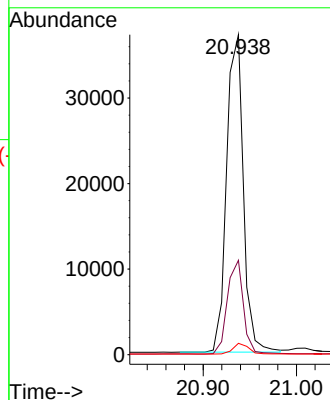
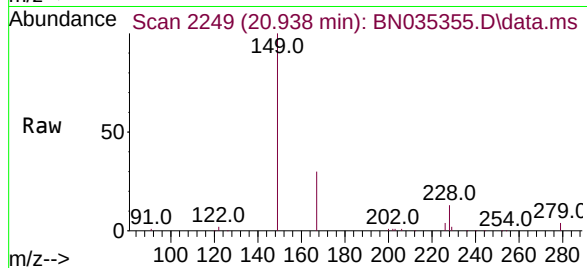




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

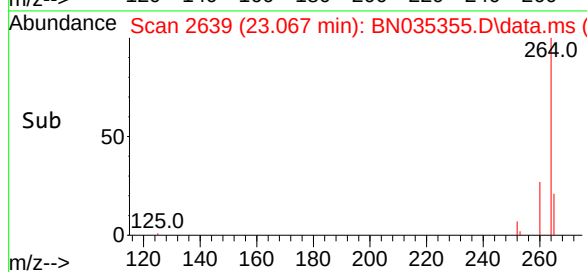
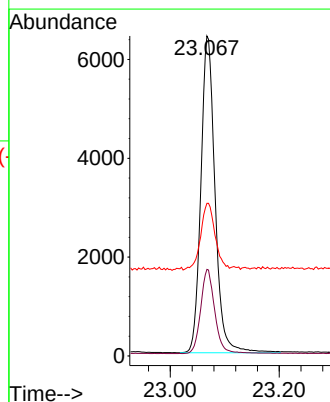
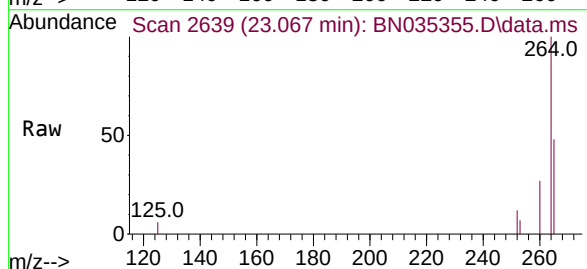
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

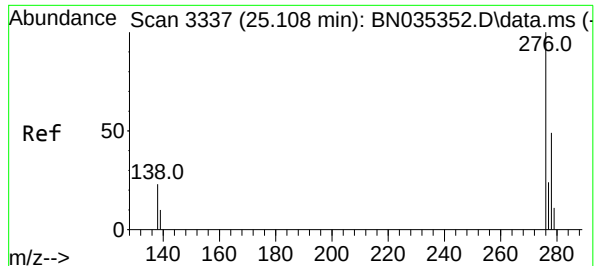
Tgt Ion:149 Resp: 46251
Ion Ratio Lower Upper
149 100
167 28.3 22.2 33.4
279 3.2 2.7 4.1



#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

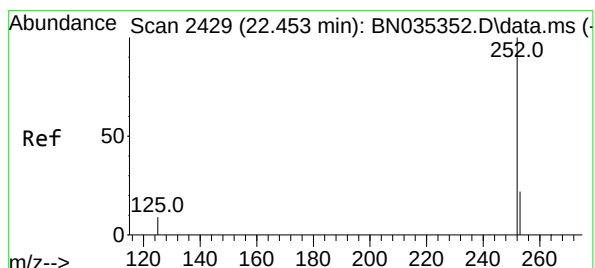
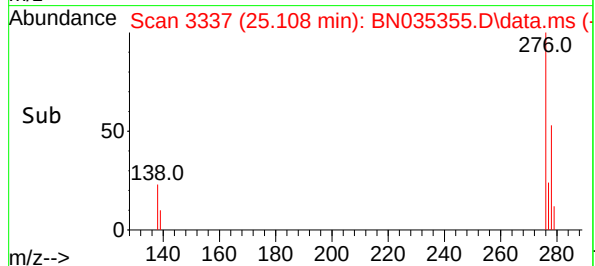
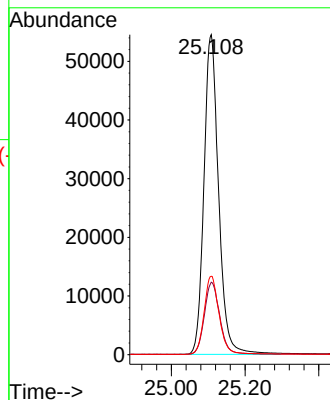
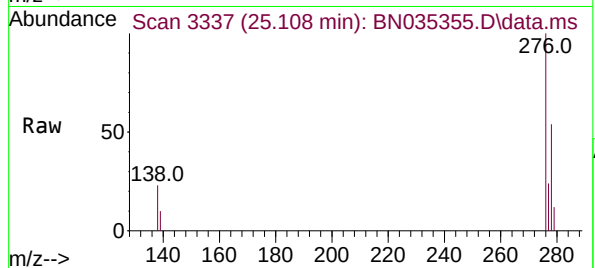
Tgt Ion:276 Resp: 150433

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

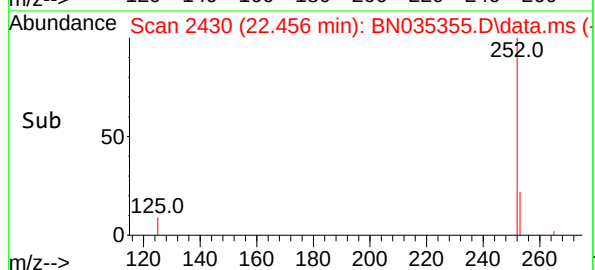
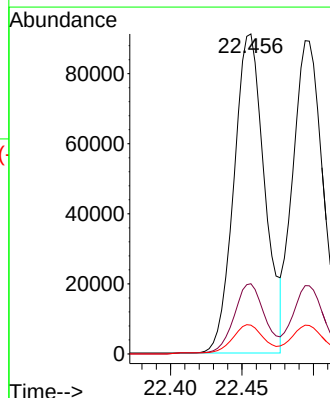
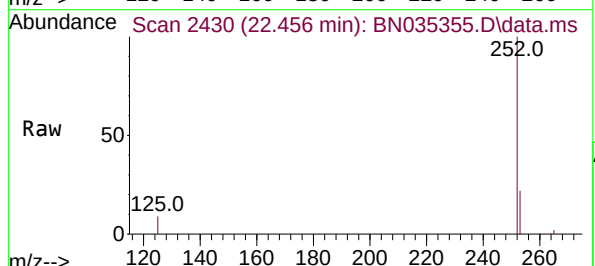
Tgt Ion:252 Resp: 136261

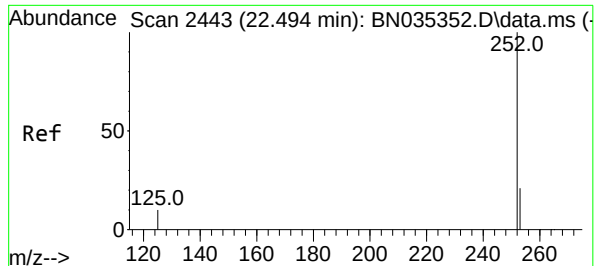
Ion Ratio Lower Upper

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

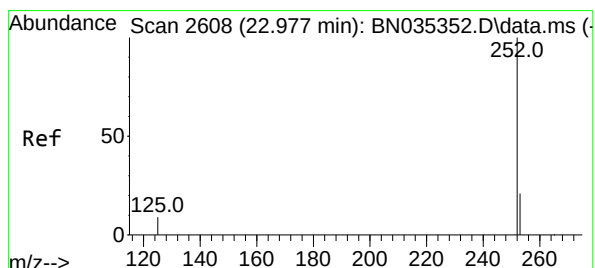
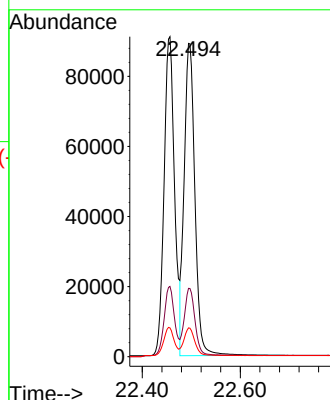
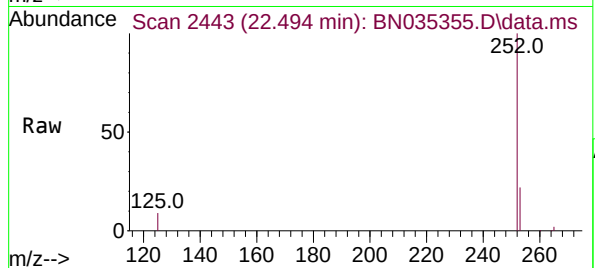
Tgt Ion:252 Resp: 134789

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

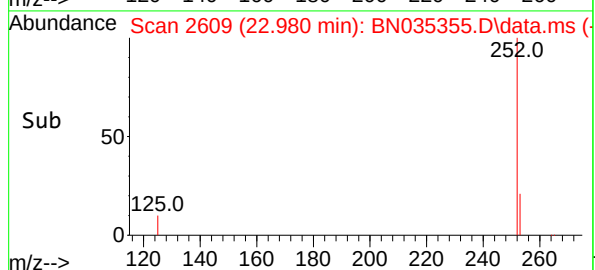
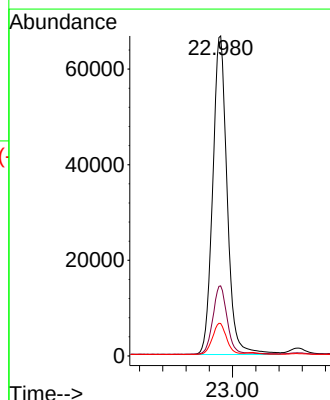
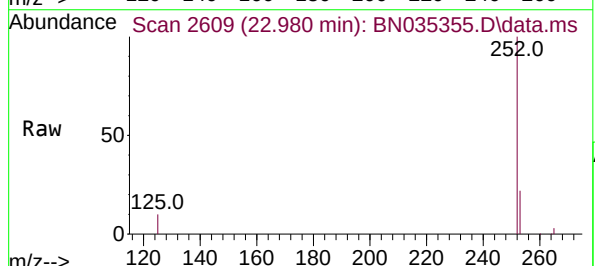
Tgt Ion:252 Resp: 114719

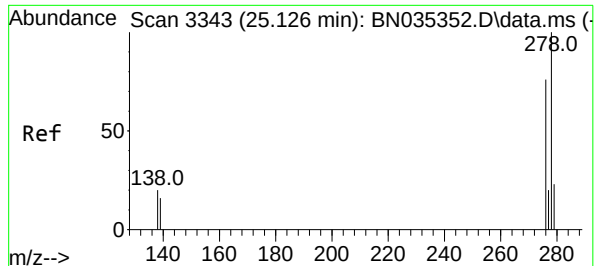
Ion Ratio Lower Upper

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

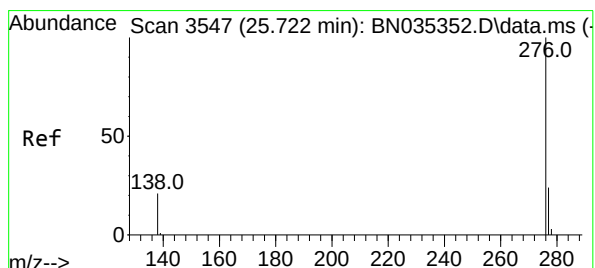
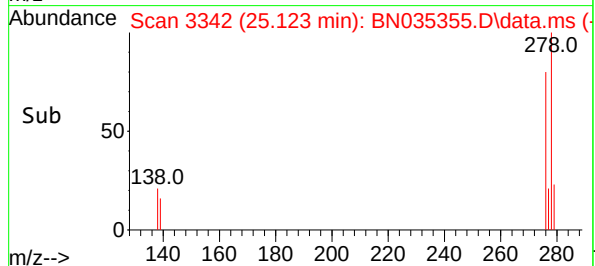
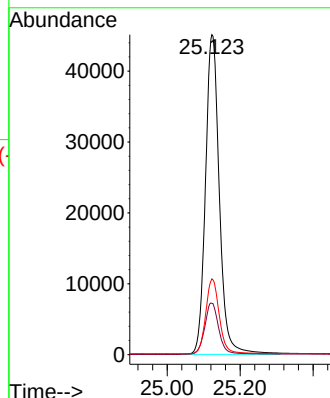
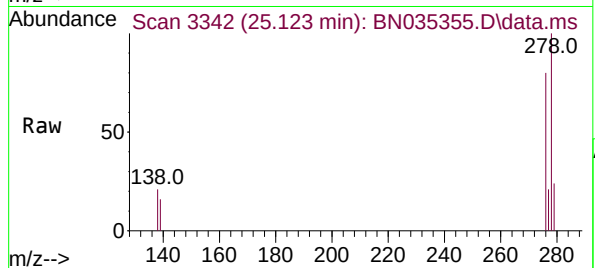
Tgt Ion:278 Resp: 119216

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

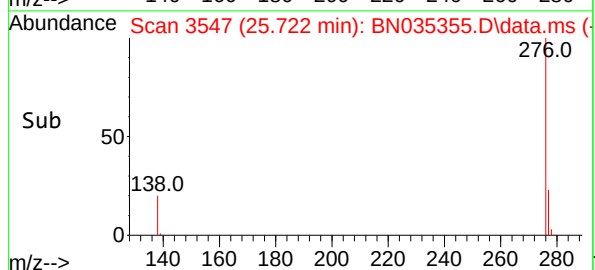
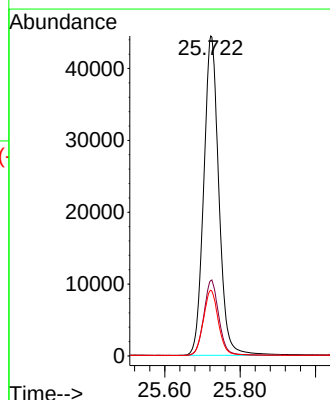
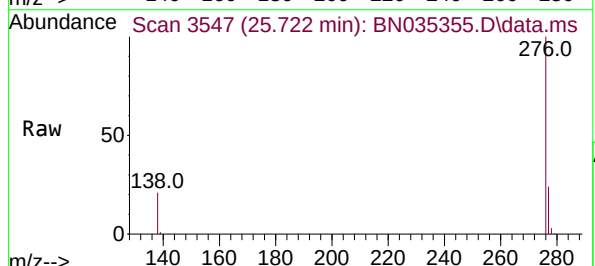
Tgt Ion:276 Resp: 123841

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)

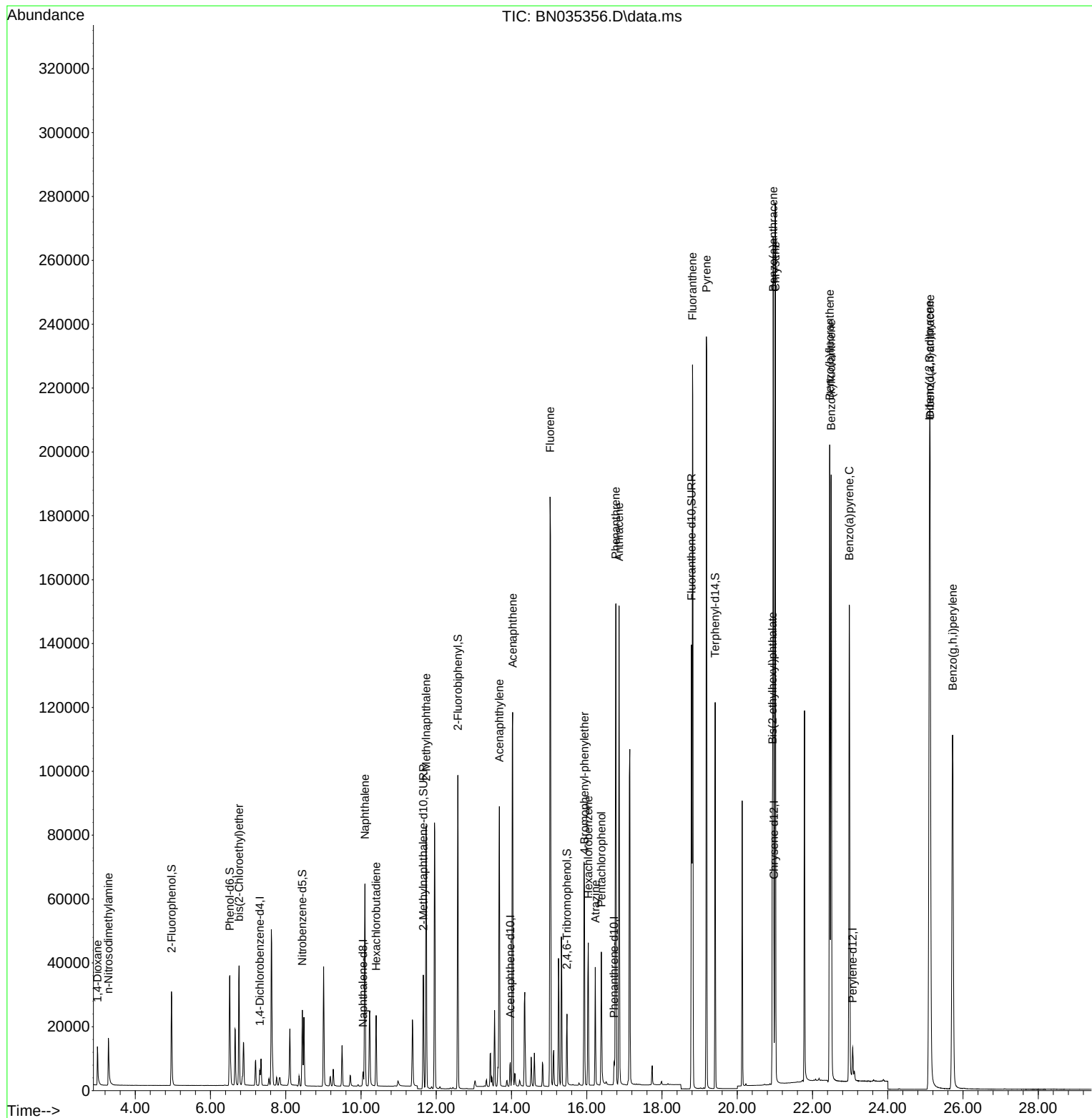
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng	0.00
35) Perylene-d12	23.067	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

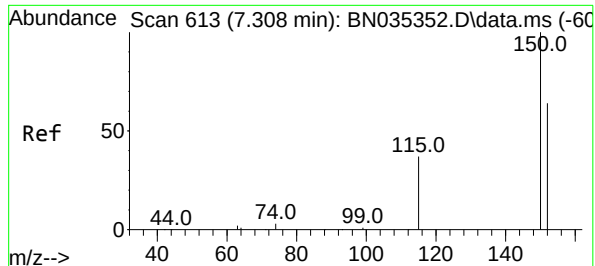
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

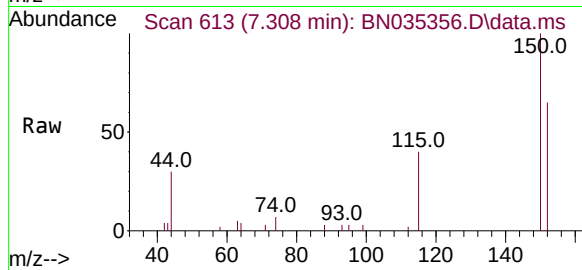
Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



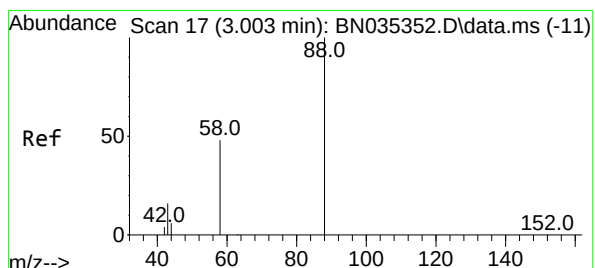
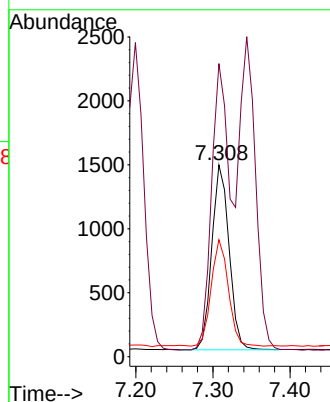
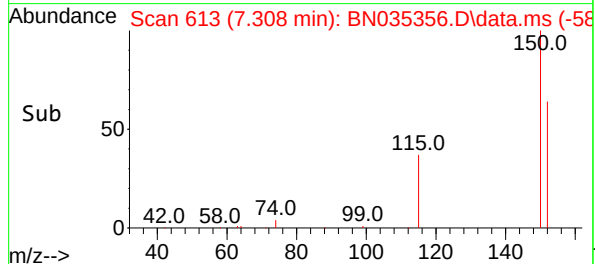


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

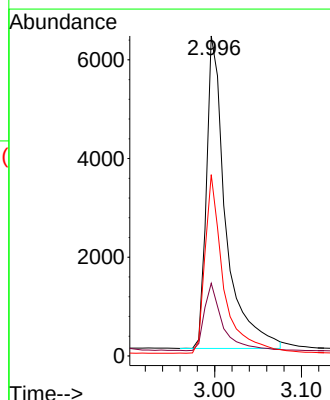
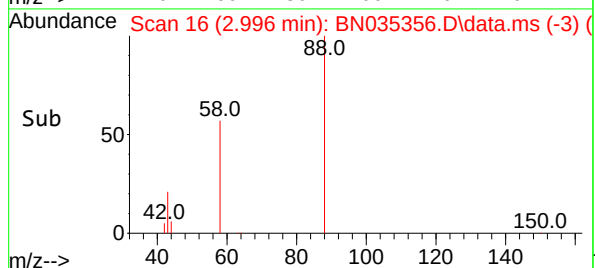
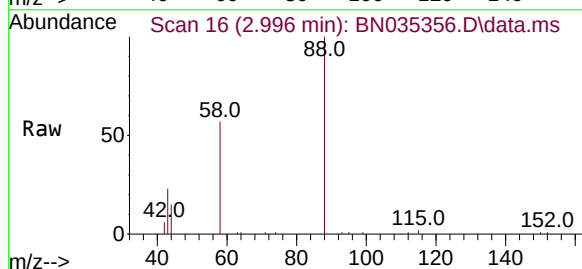


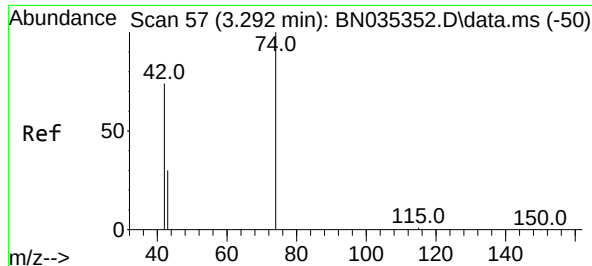
Tgt Ion:152 Resp: 2249
Ion Ratio Lower Upper
152 100
150 152.9 124.0 186.0
115 61.0 49.6 74.4



#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

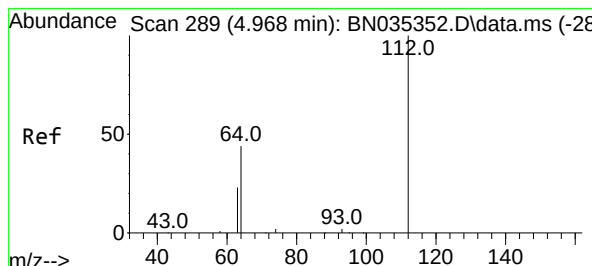
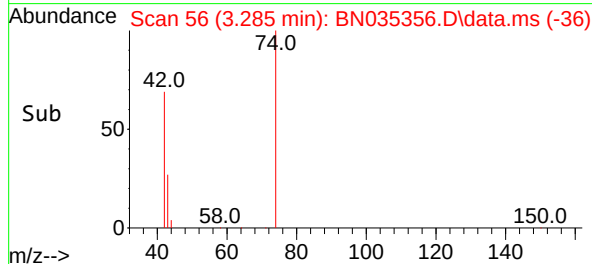
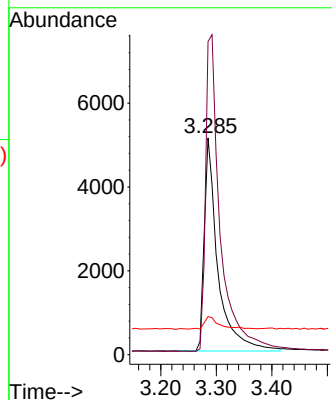
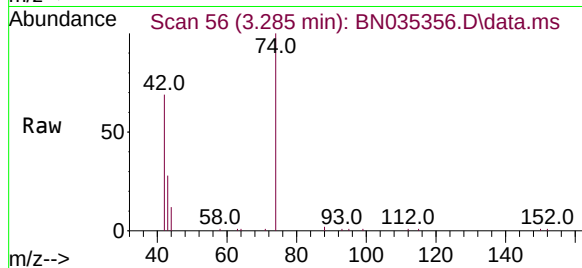




#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

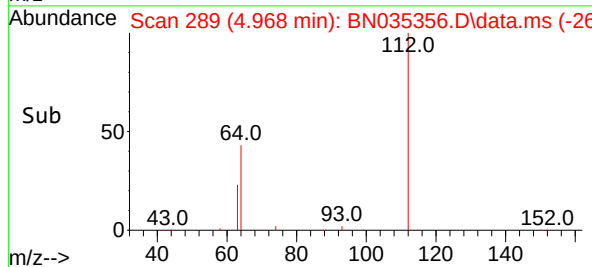
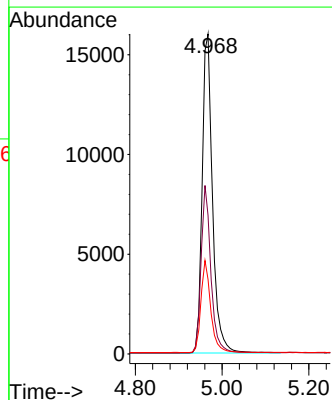
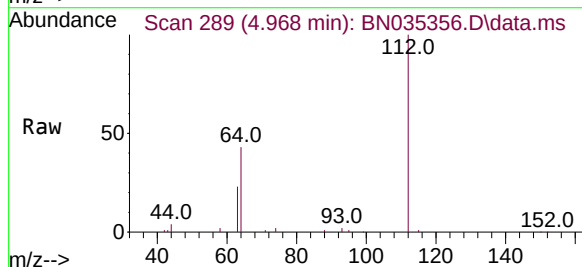
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

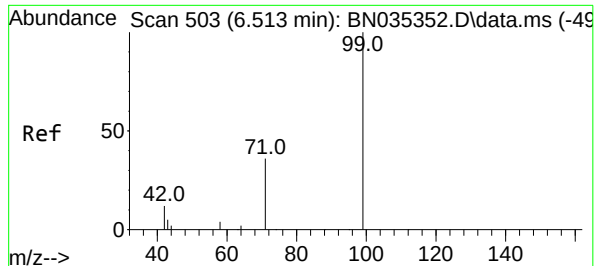
Tgt Ion: 42 Resp: 8681
Ion Ratio Lower Upper
42 100
74 161.2 124.9 187.3
44 6.7 2.2 3.4#



#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

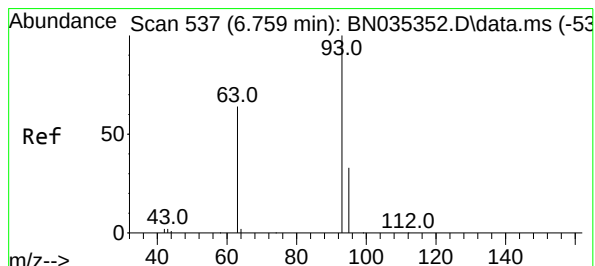
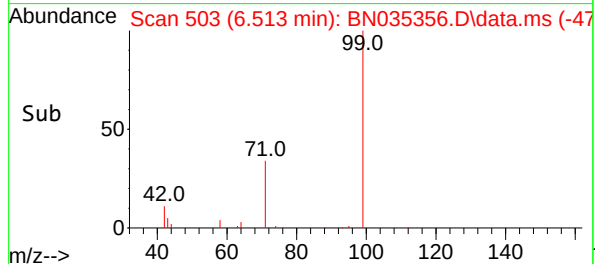
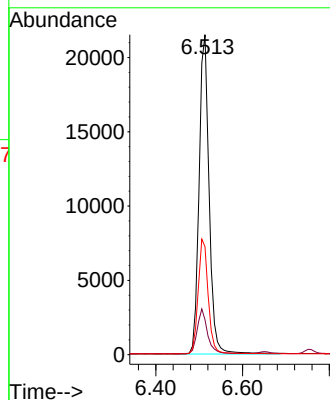
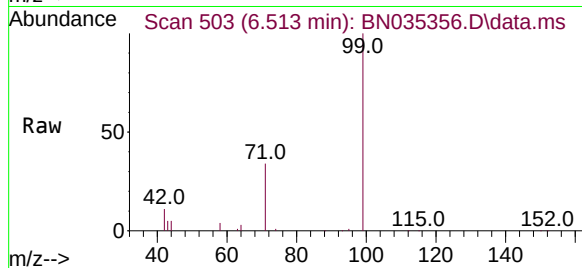




#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

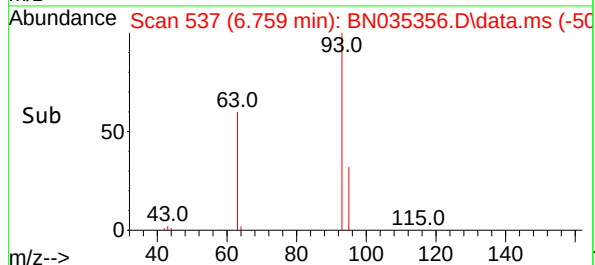
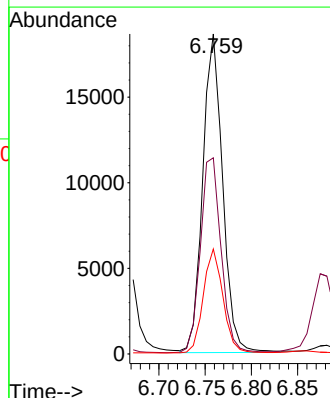
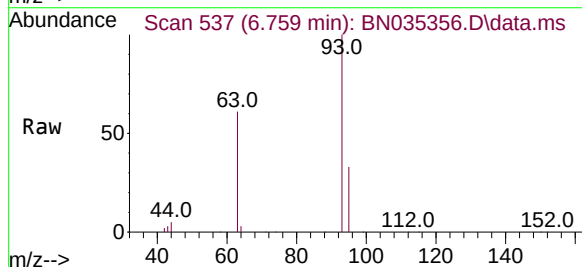
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

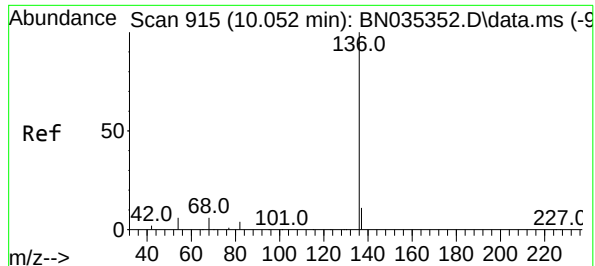
Tgt Ion: 99 Resp: 34560
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.4 29.3 43.9



#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

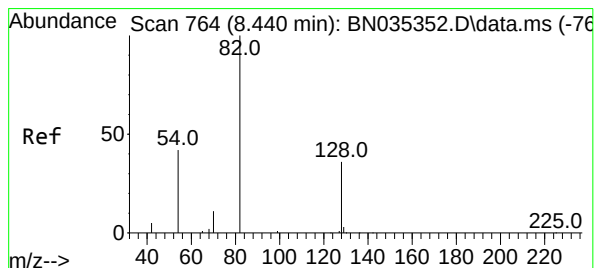
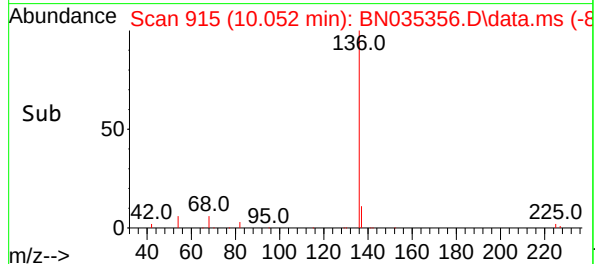
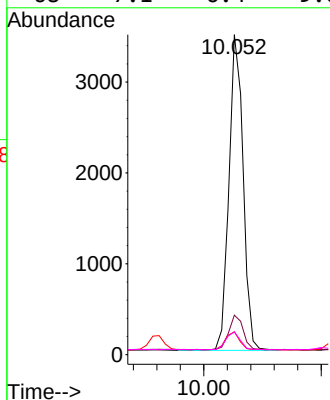
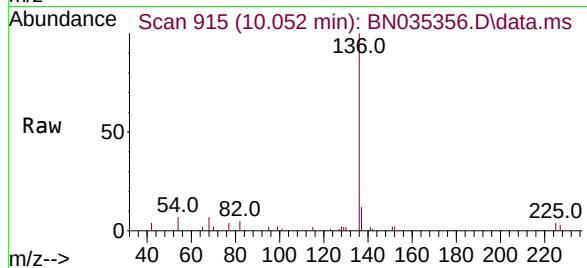




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

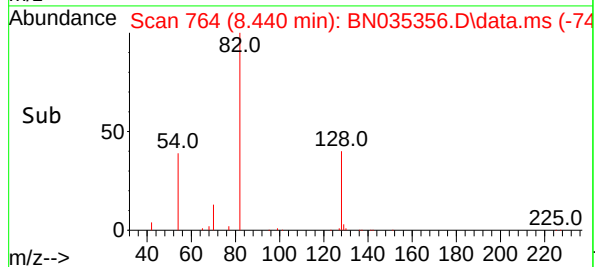
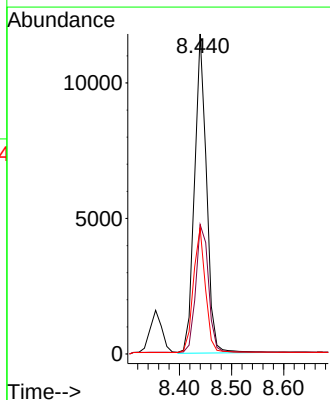
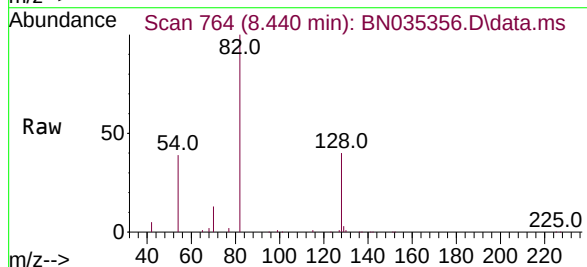
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

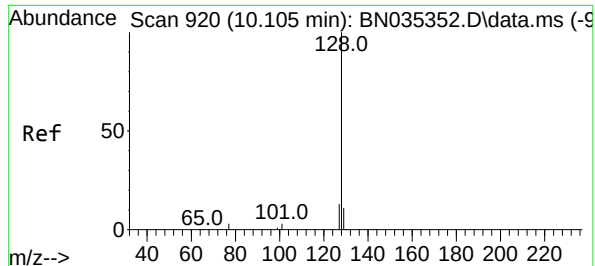
Tgt Ion:	136	Resp:	5807
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6



#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

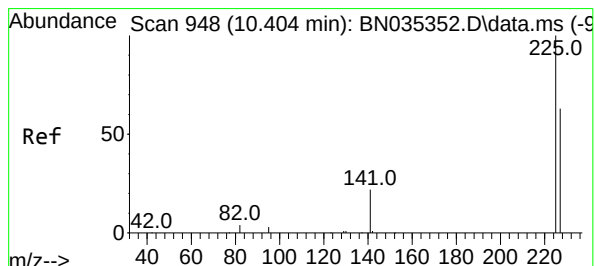
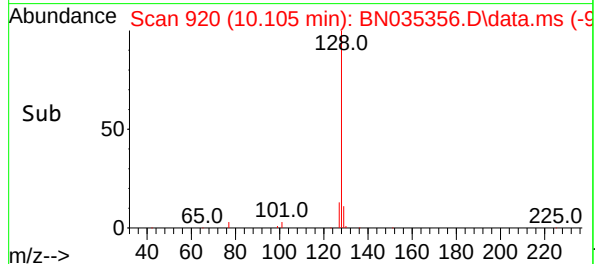
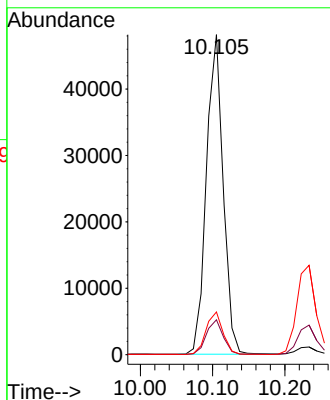
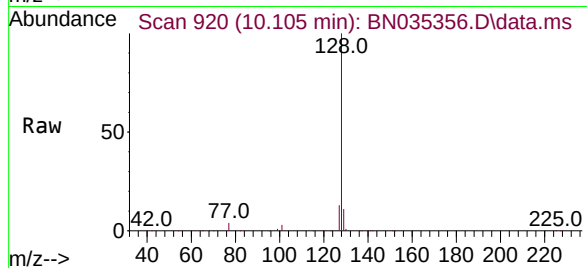




#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

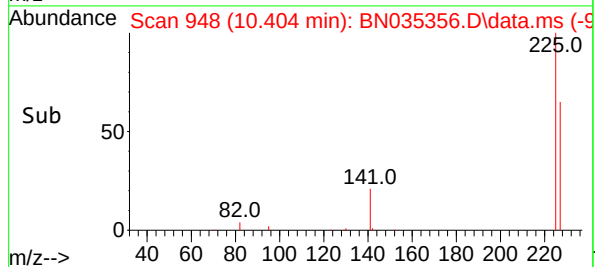
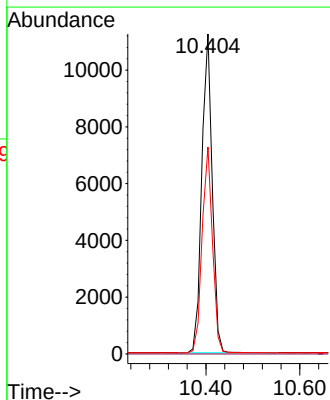
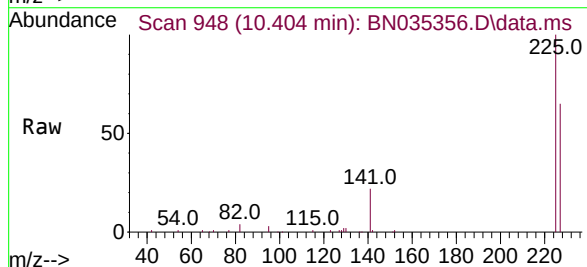
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

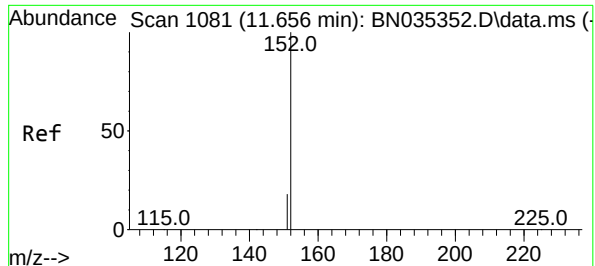
Tgt Ion:128 Resp: 77668
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.4 11.4 17.2



#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

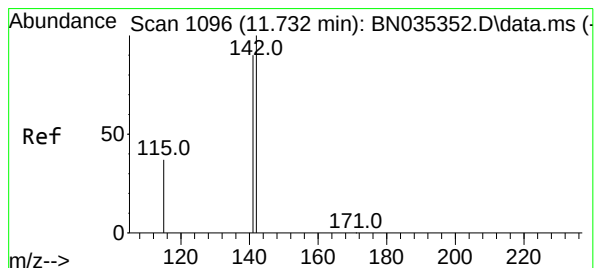
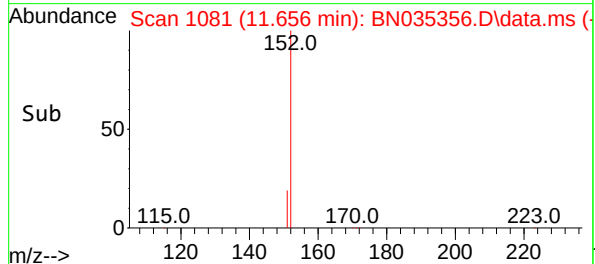
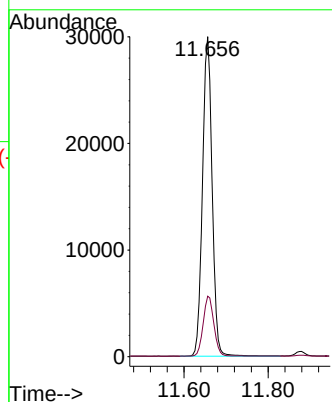
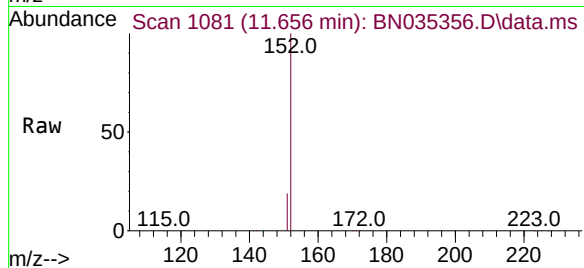




#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

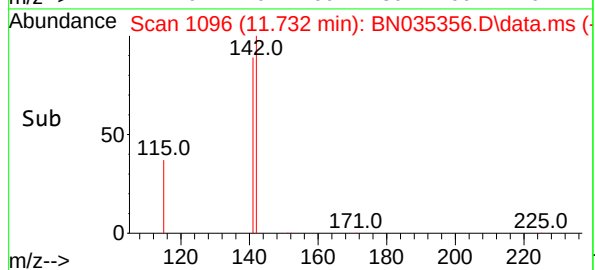
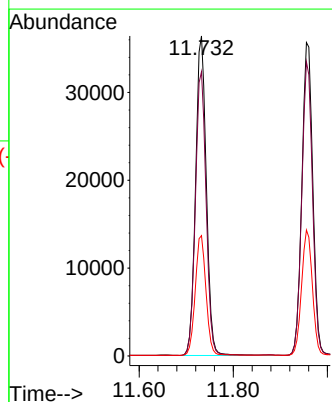
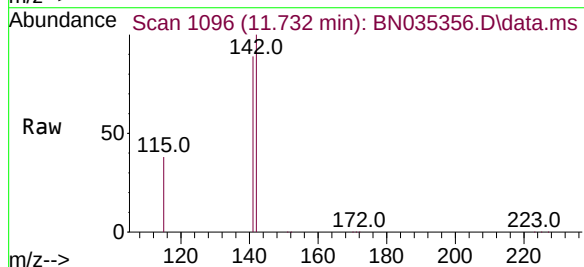
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

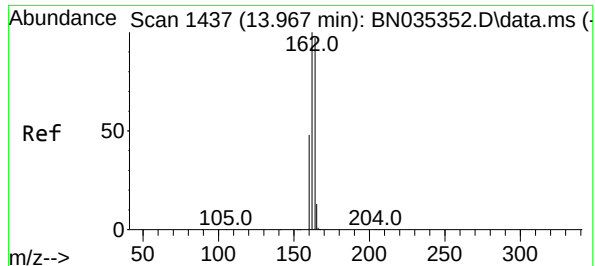
Tgt Ion:152 Resp: 47612
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

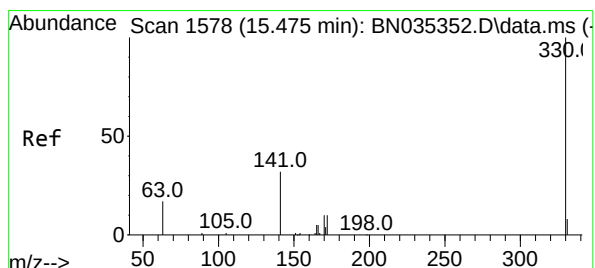
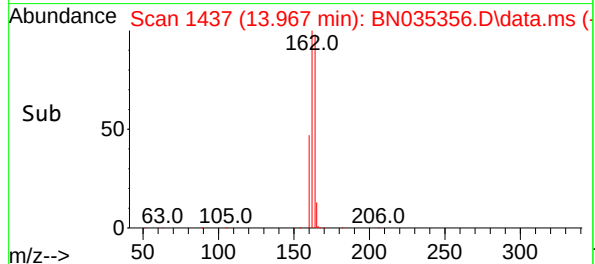
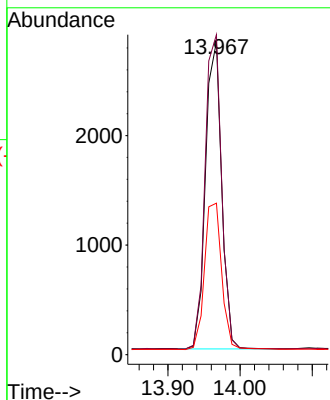
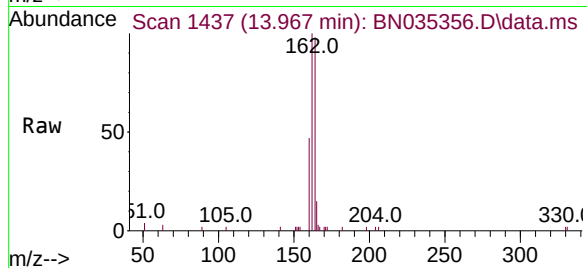




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

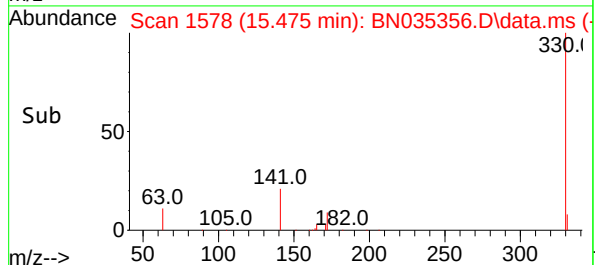
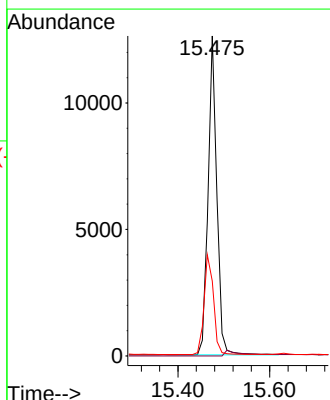
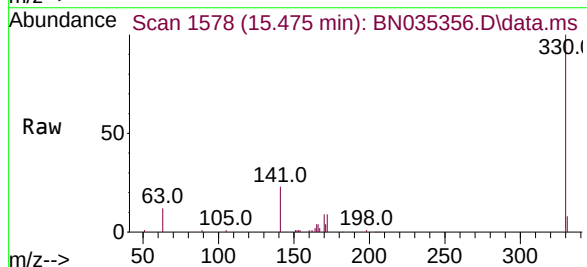
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

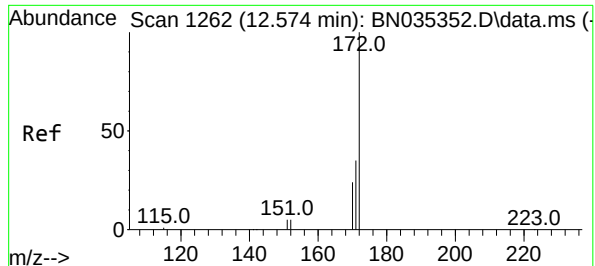
Tgt Ion:164 Resp: 4363
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.2
160 48.4 40.1 60.1



#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

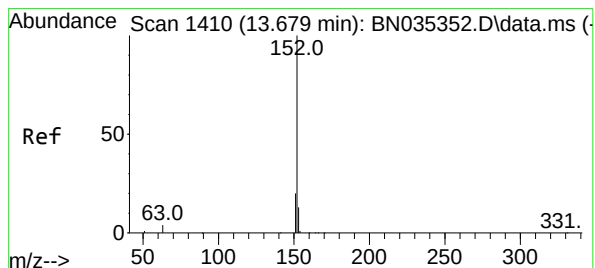
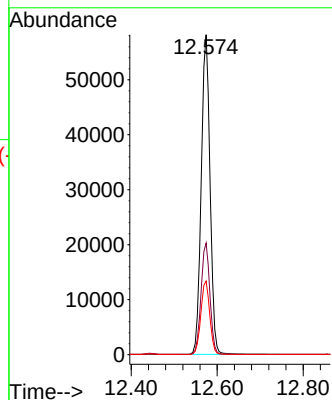
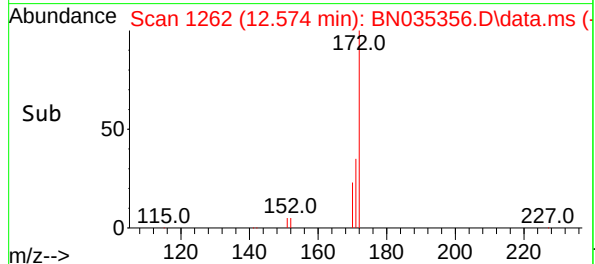
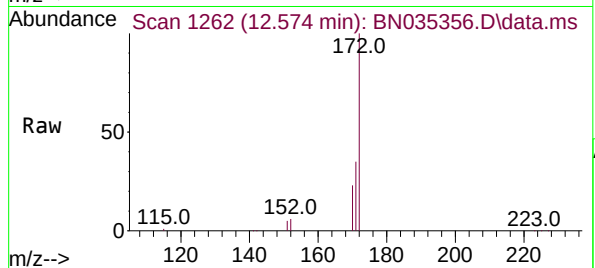




#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

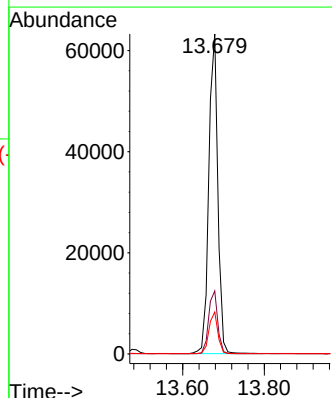
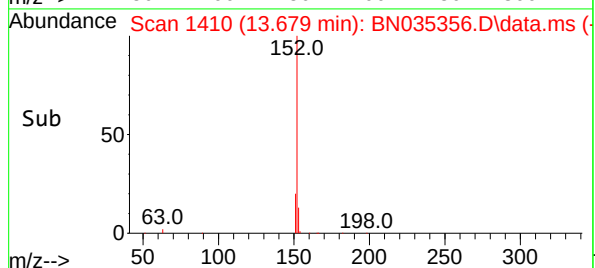
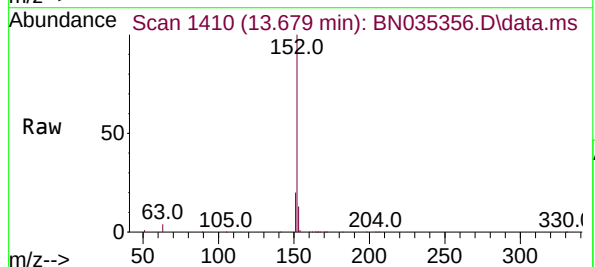
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

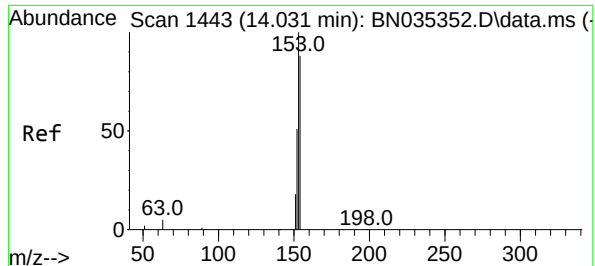
Tgt Ion:172 Resp: 82401
Ion Ratio Lower Upper
172 100
171 34.9 29.0 43.4
170 23.0 19.8 29.8



#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

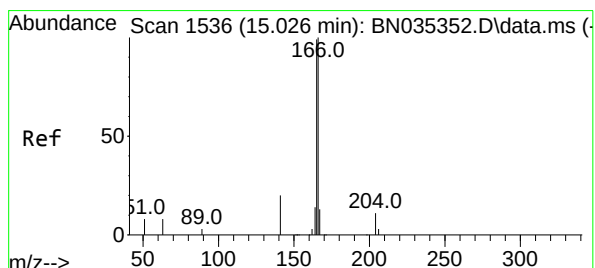
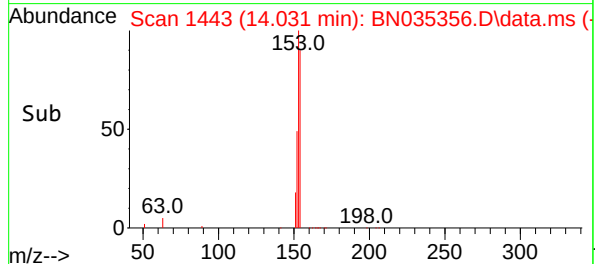
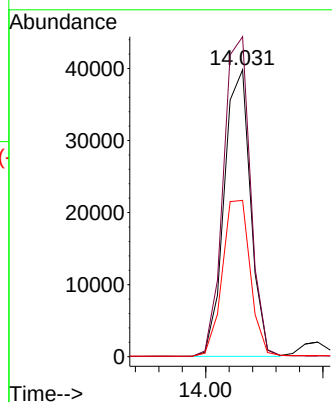
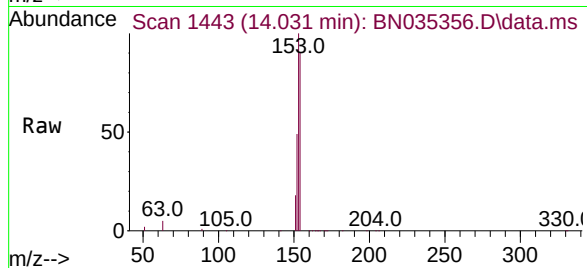




#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

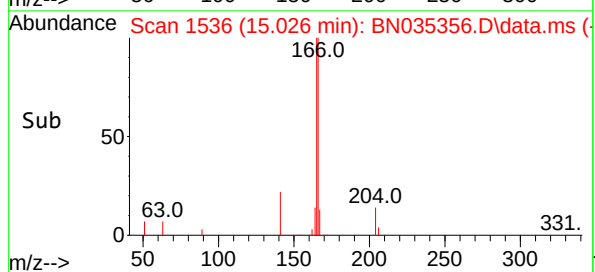
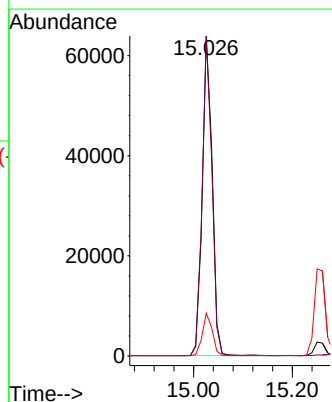
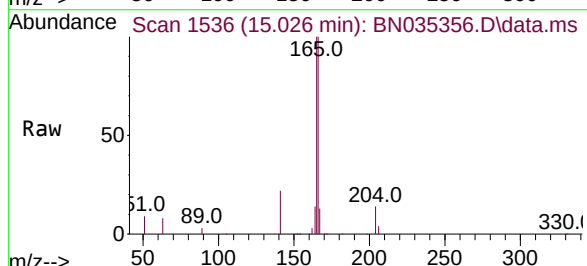
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

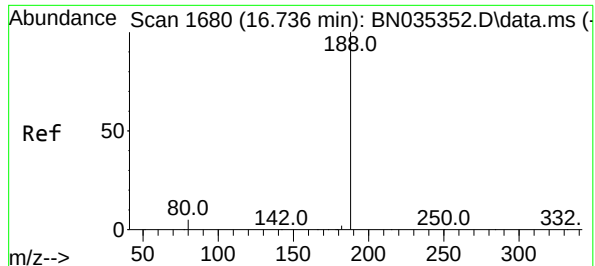
Tgt Ion:154 Resp: 62170
Ion Ratio Lower Upper
154 100
153 114.7 92.6 139.0
152 58.1 49.0 73.6



#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

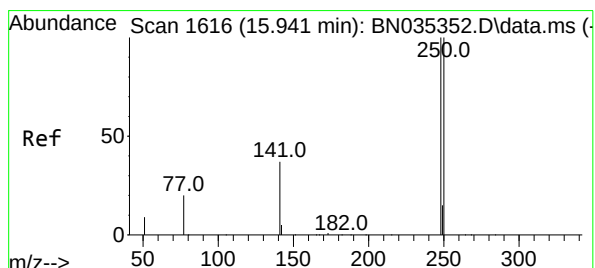
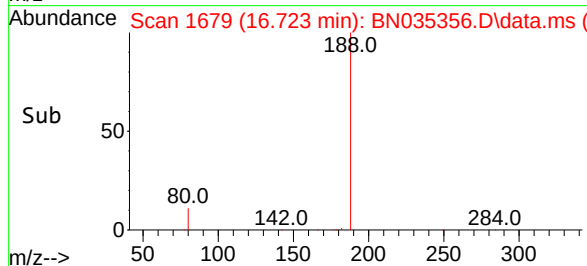
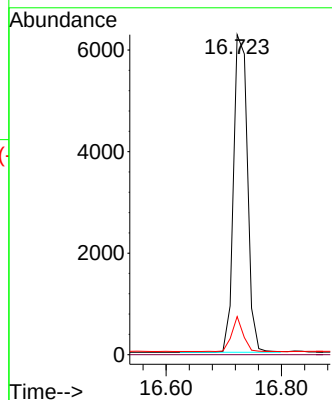
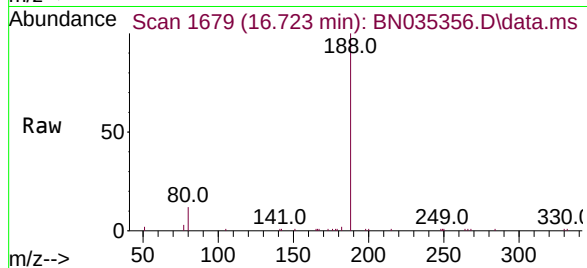
Tgt Ion:188 Resp: 10479

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

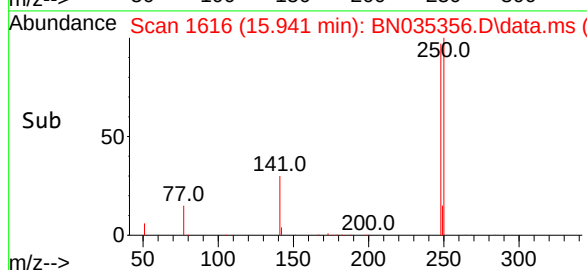
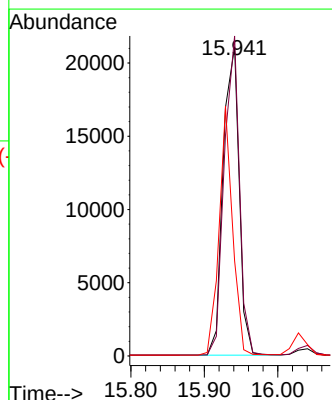
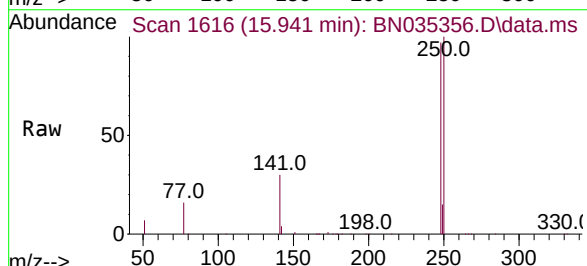
Tgt Ion:248 Resp: 31947

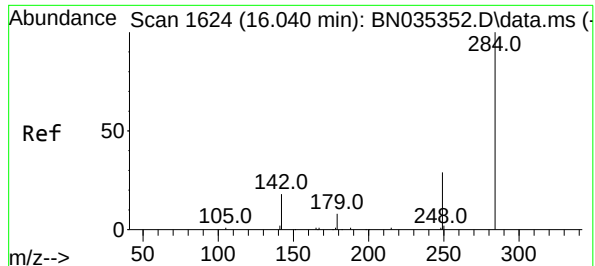
Ion Ratio Lower Upper

248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#

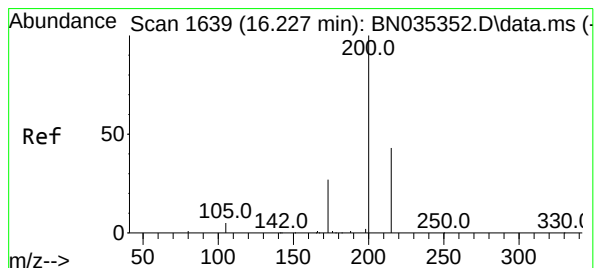
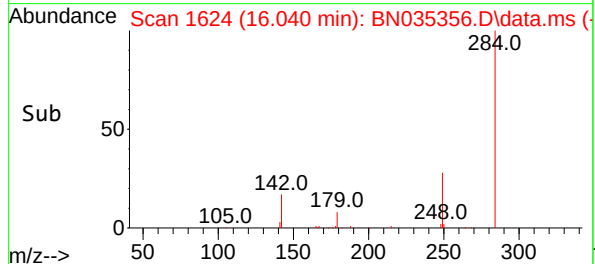
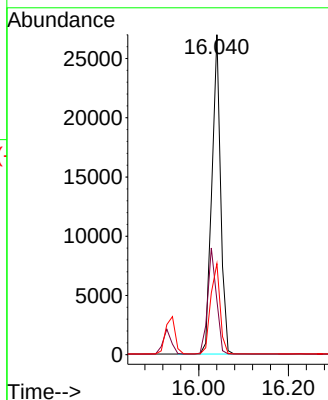
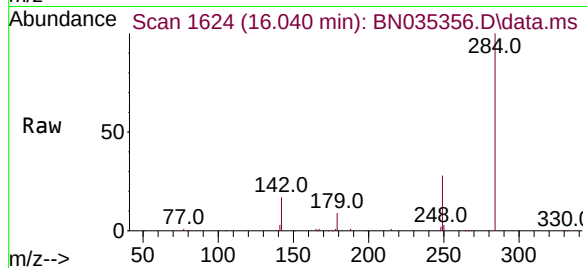




#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

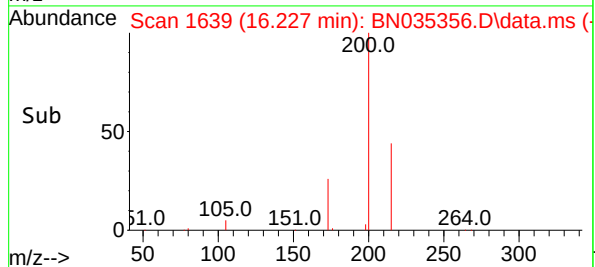
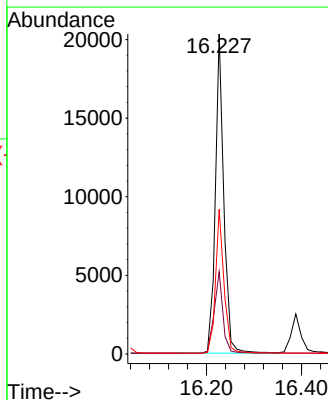
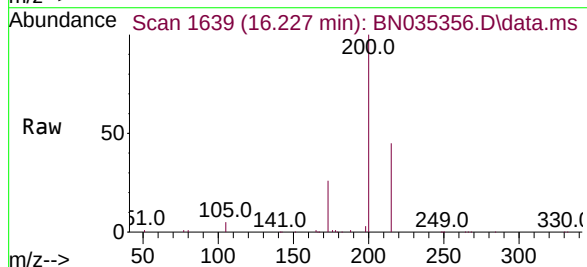
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

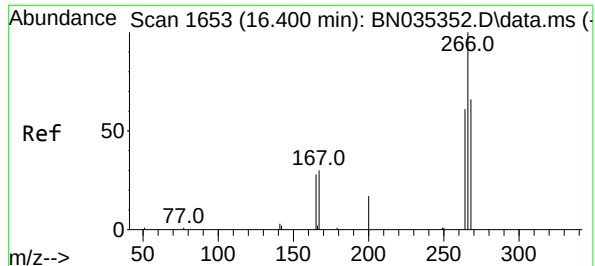
Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8



#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	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

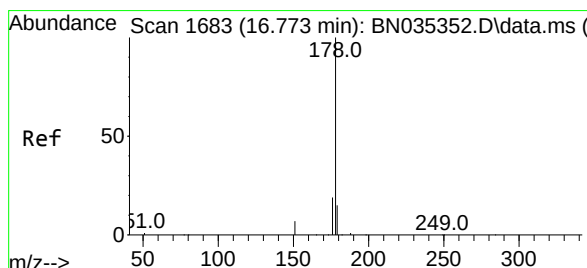
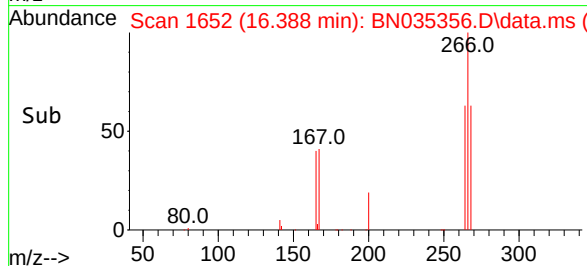
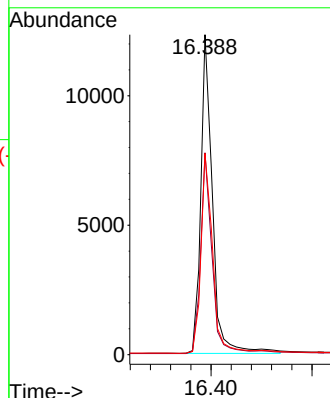
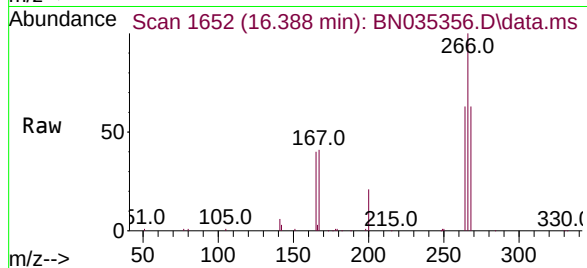
Tgt Ion:266 Resp: 19691

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

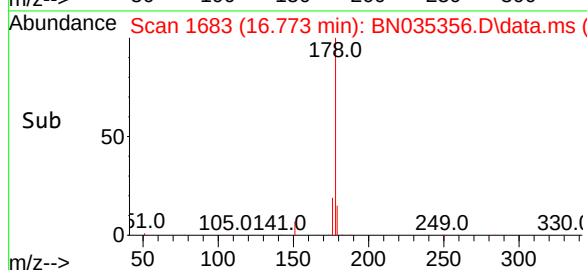
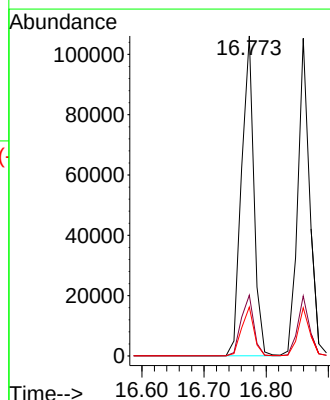
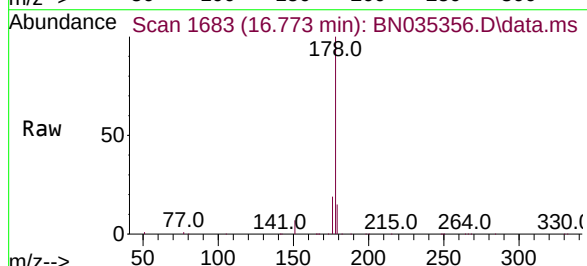
Tgt Ion:178 Resp: 147357

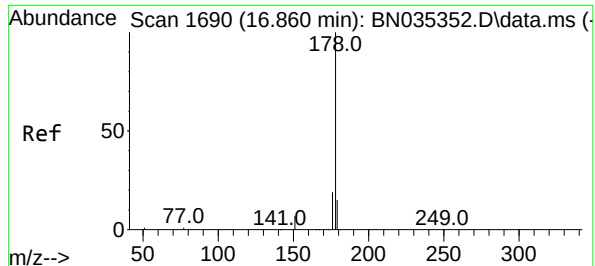
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5

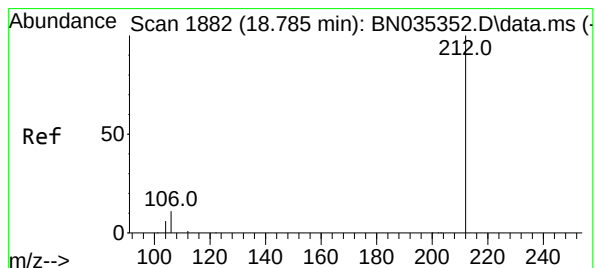
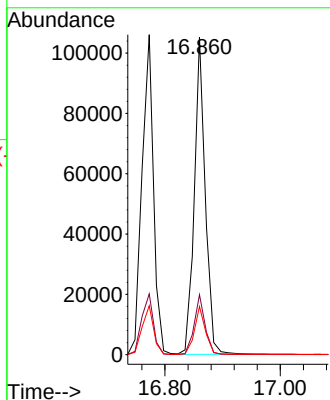
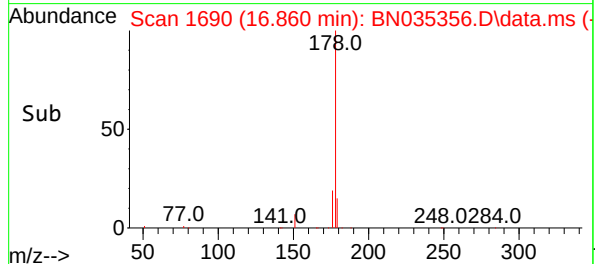
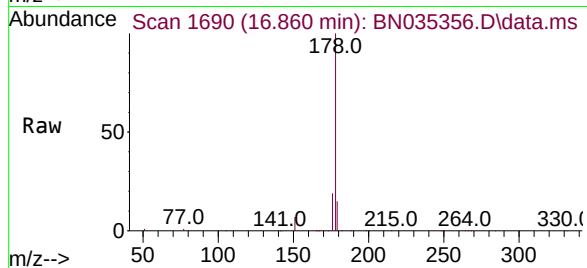




#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

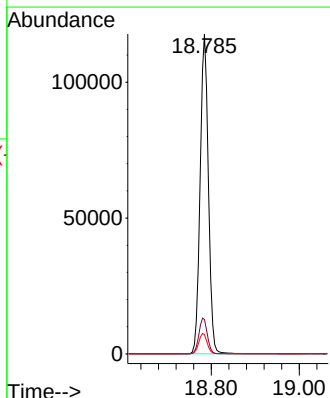
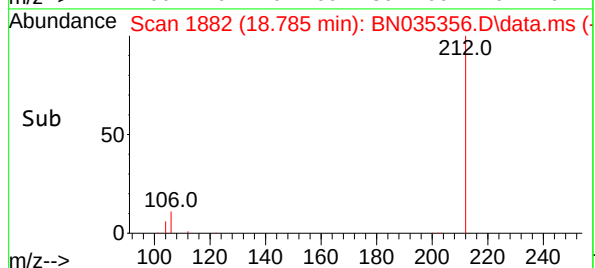
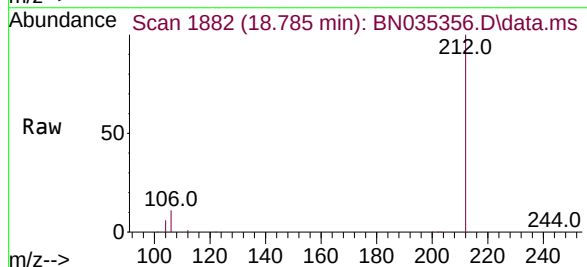
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

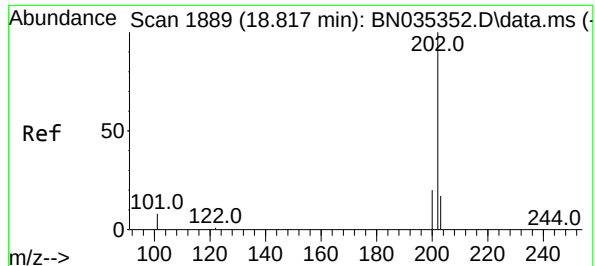
Tgt Ion:178 Resp: 139399
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.6 18.8



#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

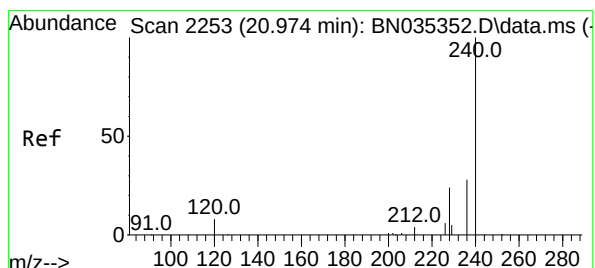
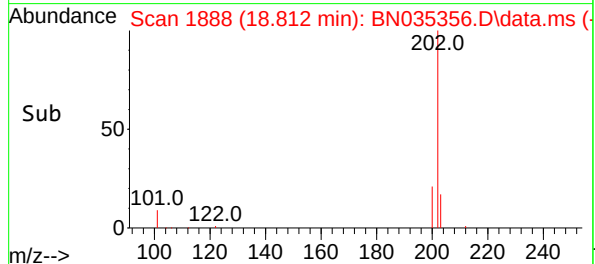
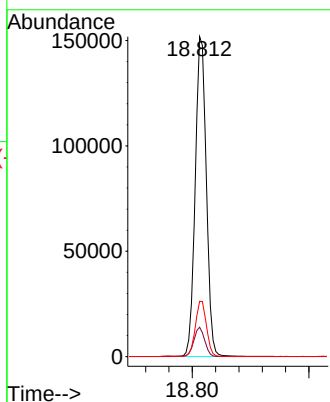
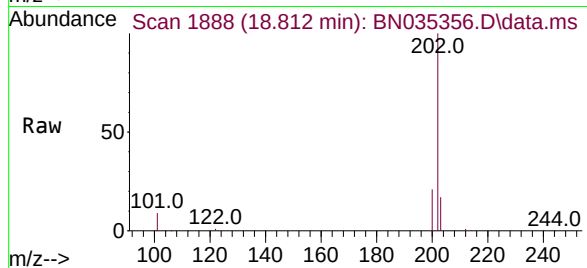




#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

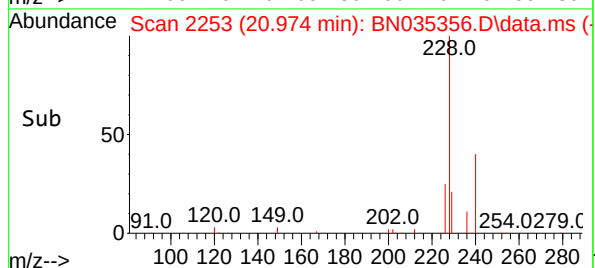
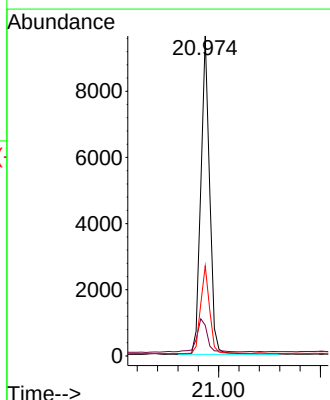
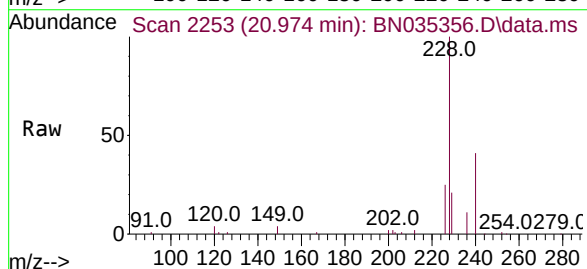
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

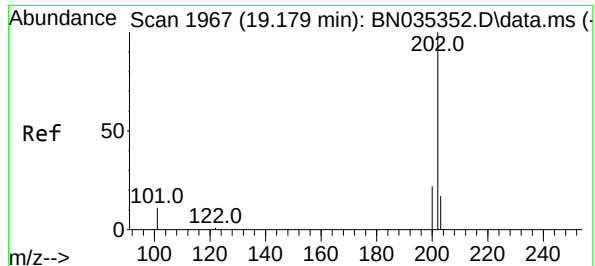
Tgt Ion:202 Resp: 199850
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.4 13.7 20.5



#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

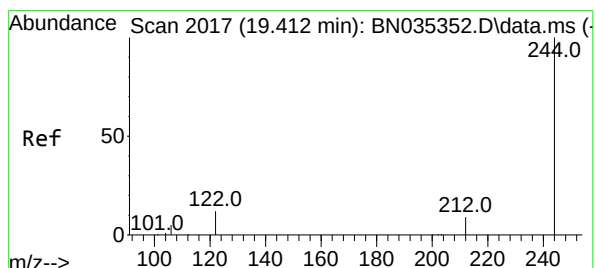
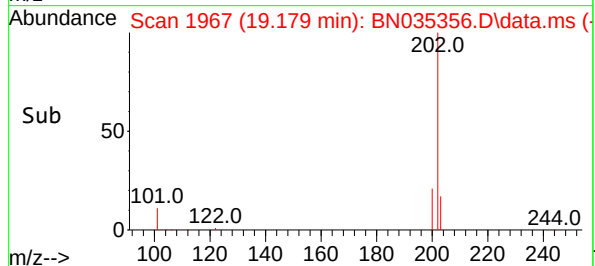
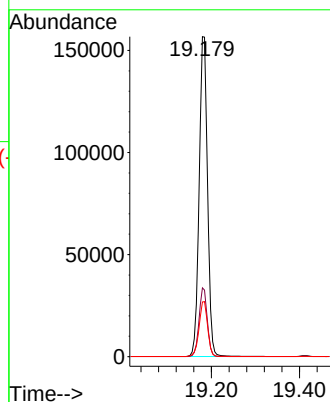
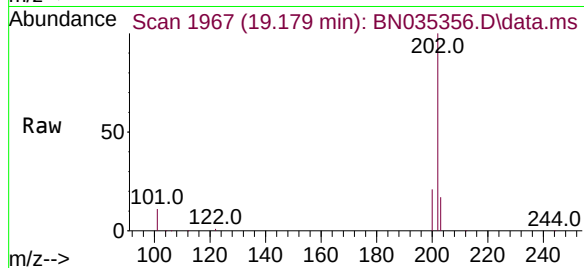
Tgt Ion:202 Resp: 206018

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

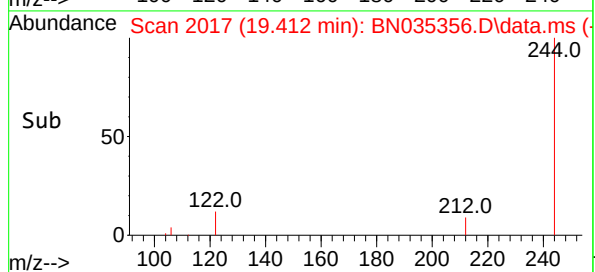
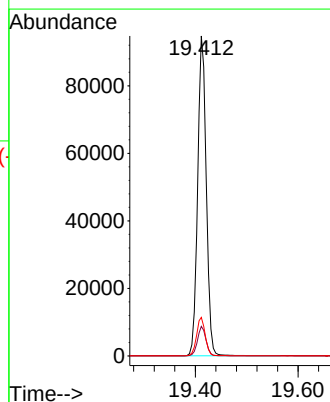
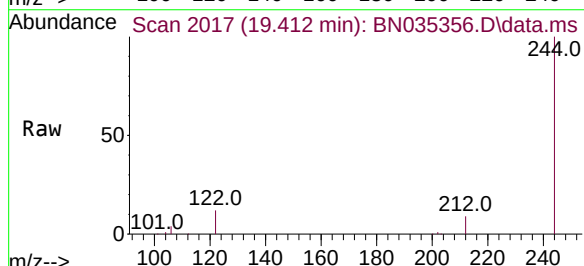
Tgt Ion:244 Resp: 110737

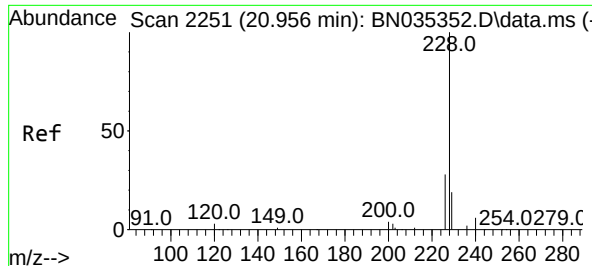
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.1 10.3 15.5

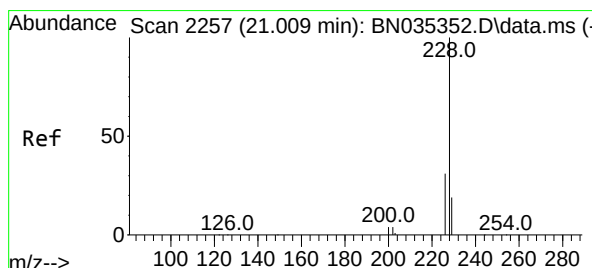
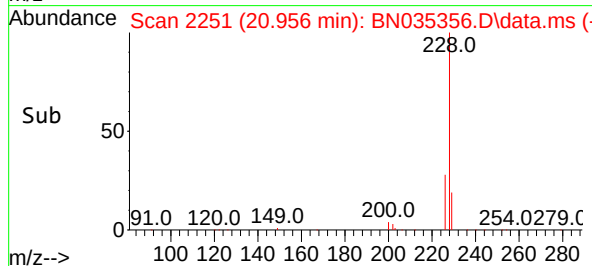
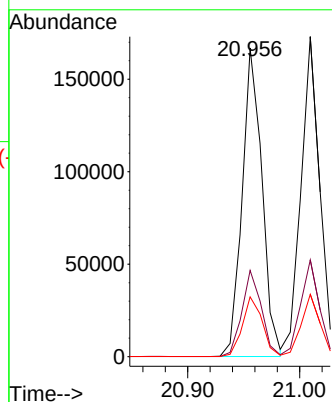
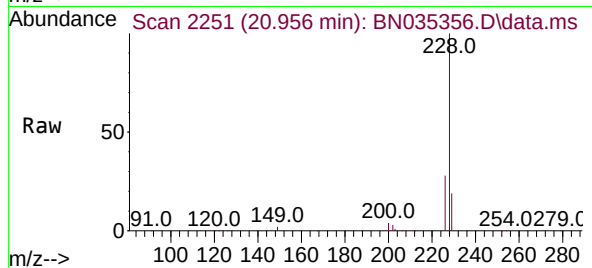




#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

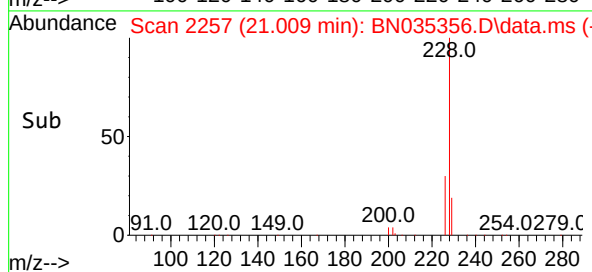
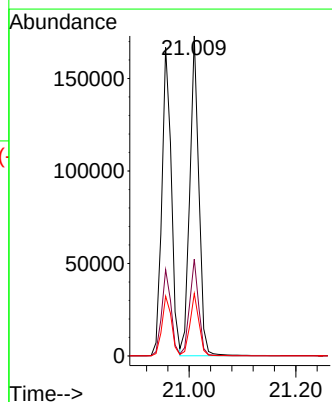
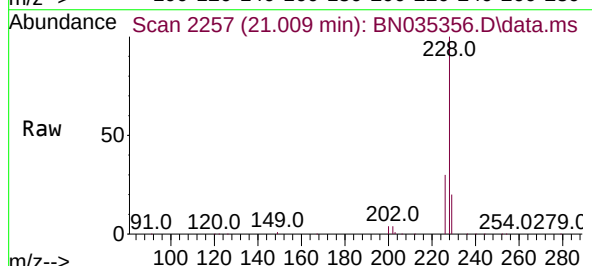
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

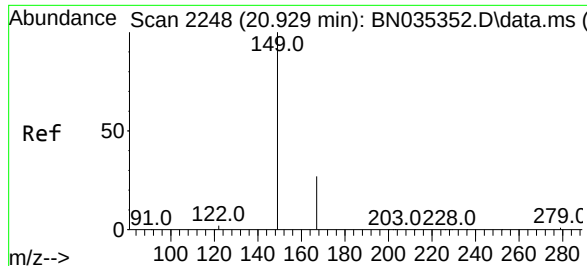
Tgt Ion:228 Resp: 205712
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.4 15.8 23.8



#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

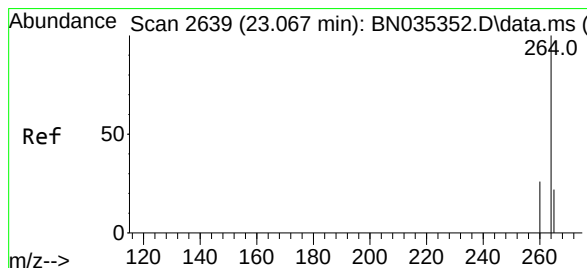
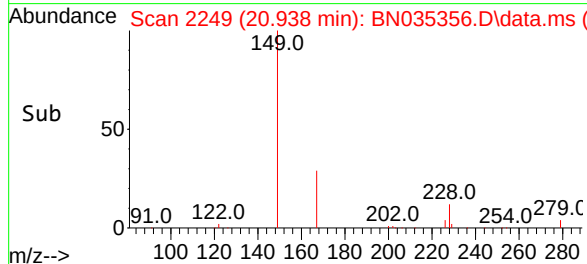
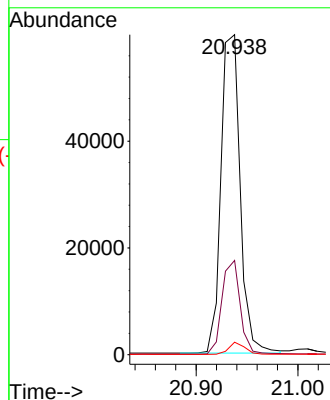
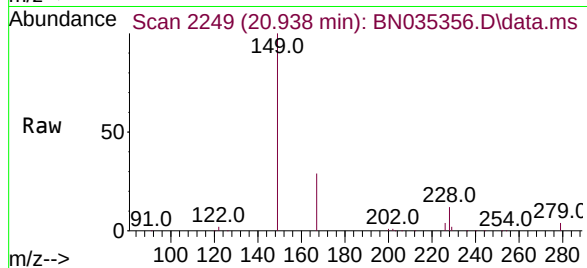




#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

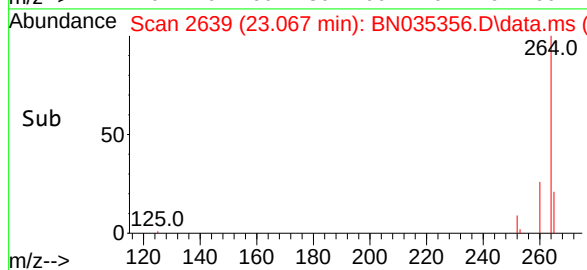
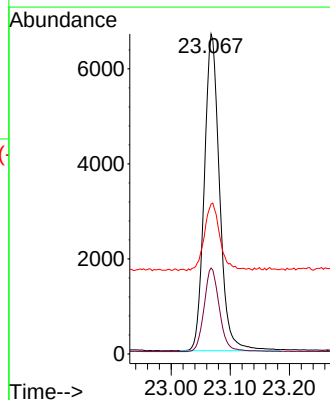
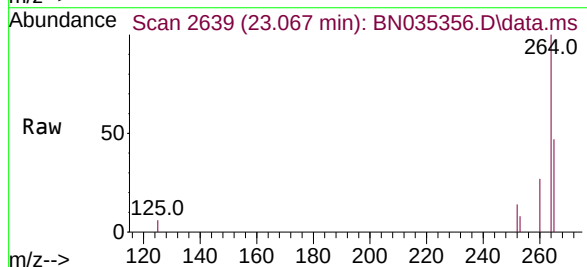
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

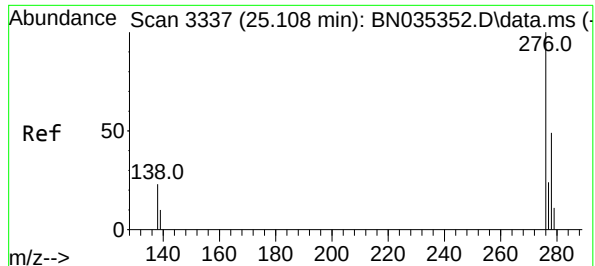
Tgt Ion:149 Resp: 78322
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.2 2.7 4.1



#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

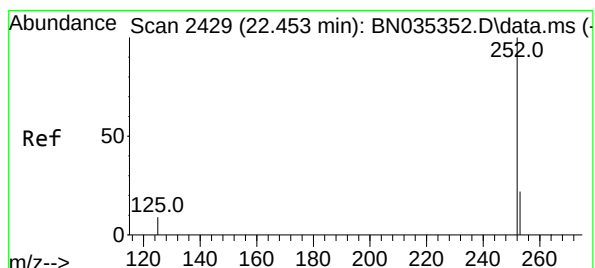
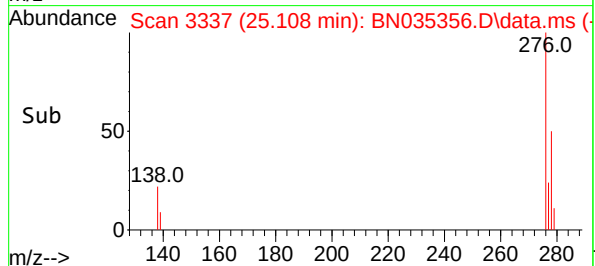
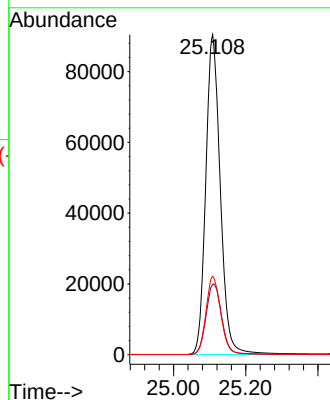
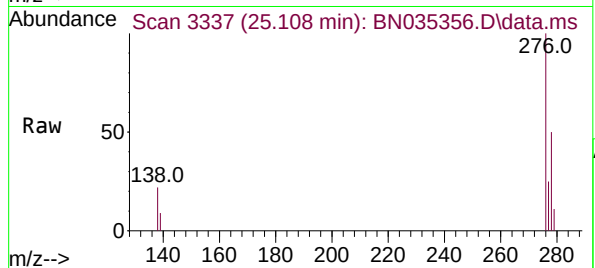
Tgt Ion:276 Resp: 252709

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

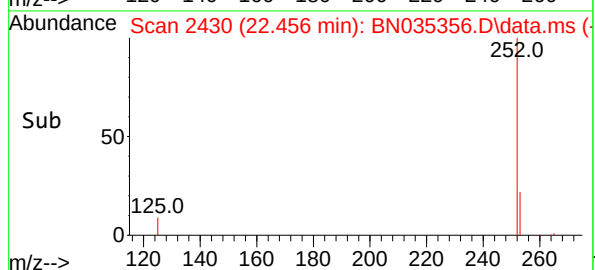
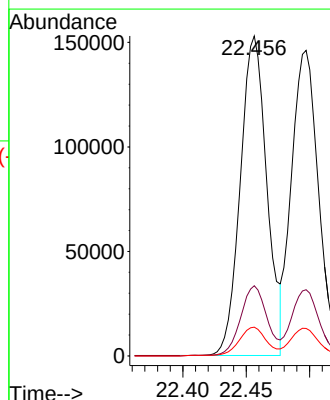
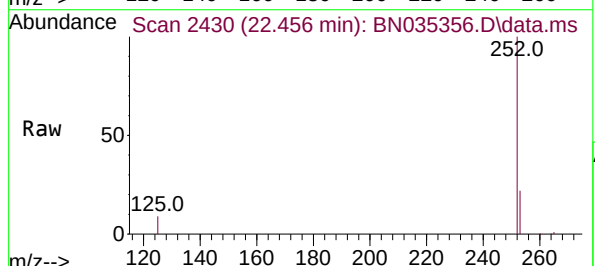
Tgt Ion:252 Resp: 241201

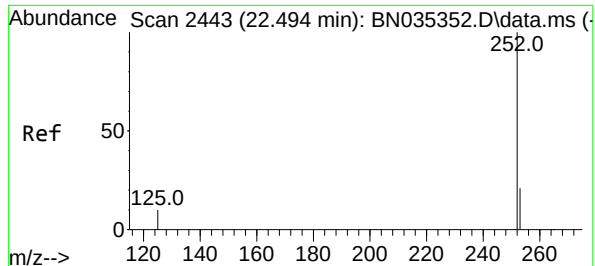
Ion Ratio Lower Upper

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

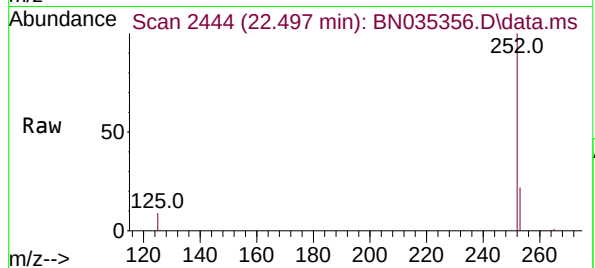
Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



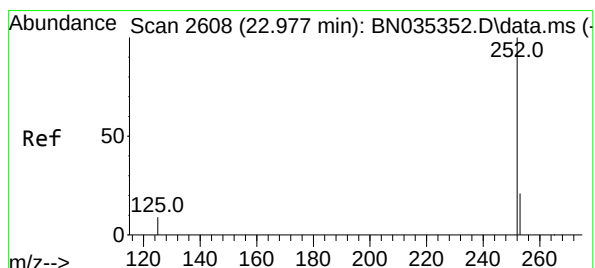
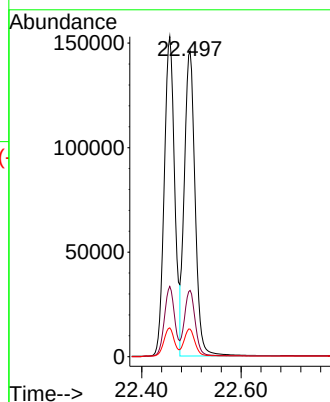
Tgt Ion:252 Resp: 220146

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

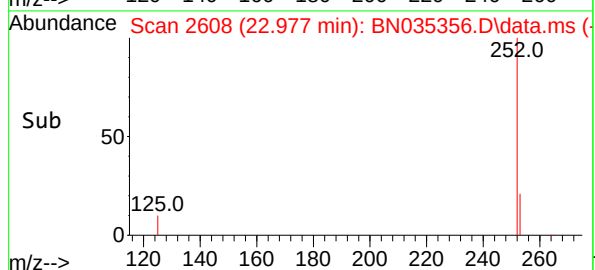
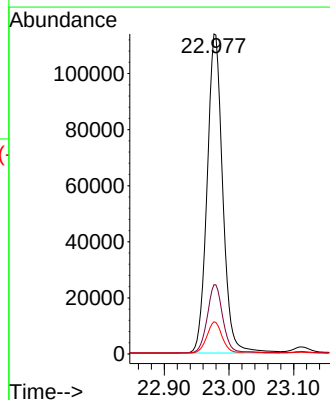
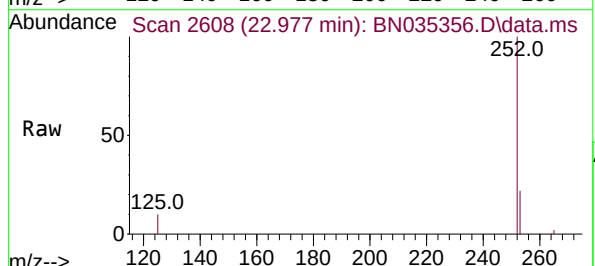
Tgt Ion:252 Resp: 190665

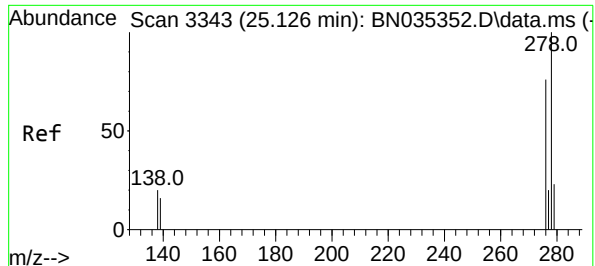
Ion Ratio Lower Upper

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

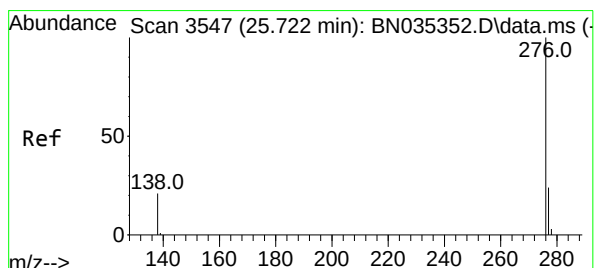
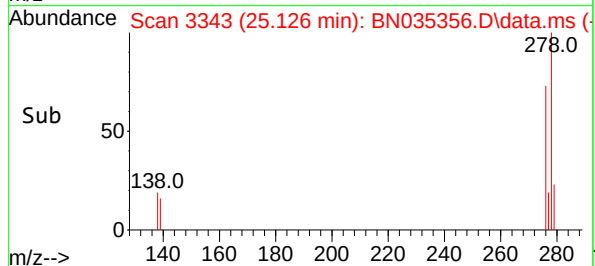
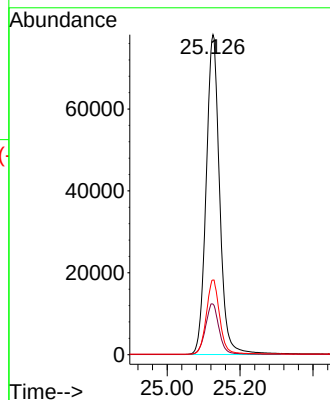
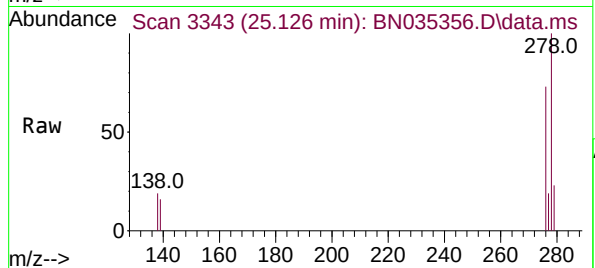
Tgt Ion:278 Resp: 199852

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

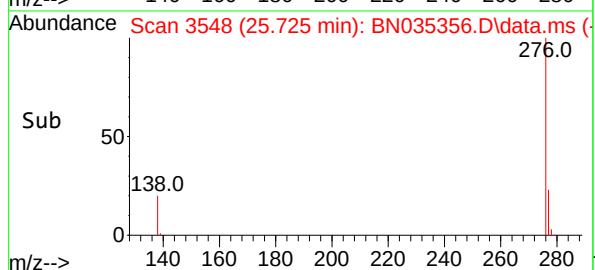
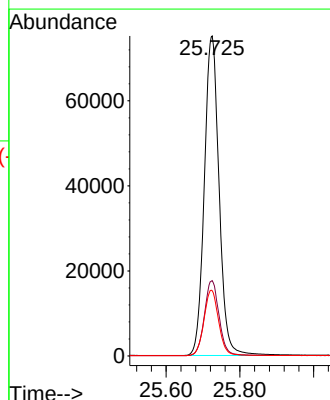
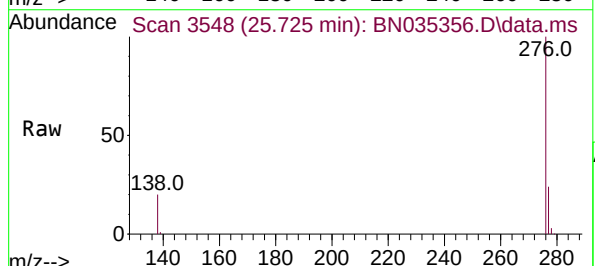
Tgt Ion:276 Resp: 209119

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

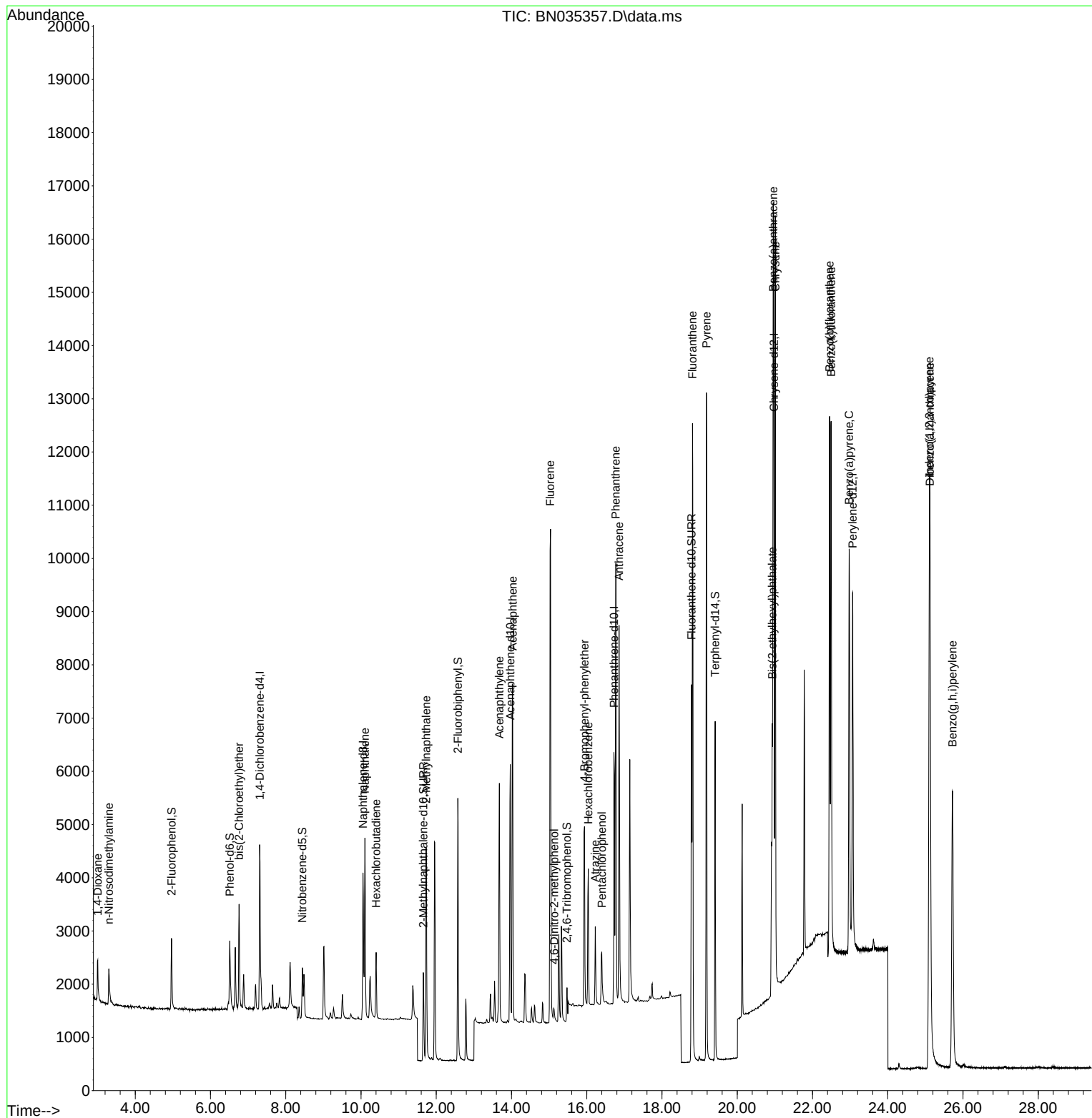
Manual Integrations

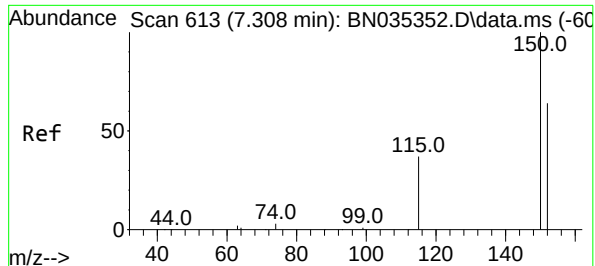
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

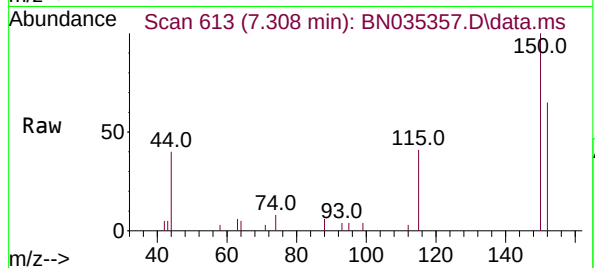
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

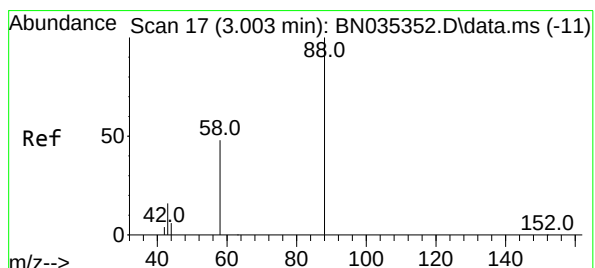
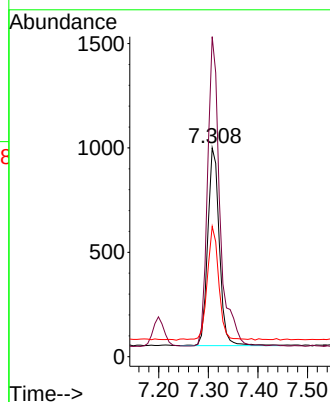
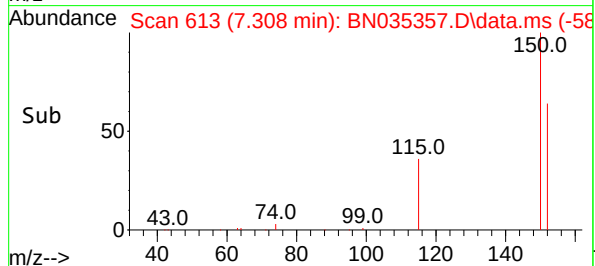
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

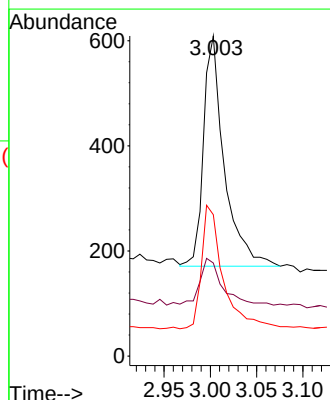
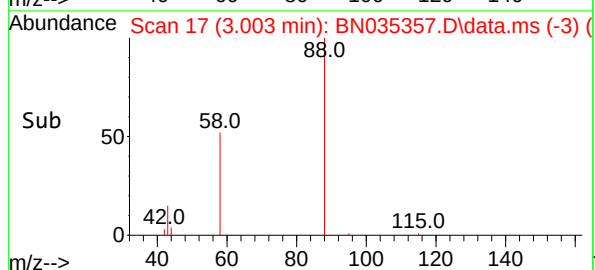
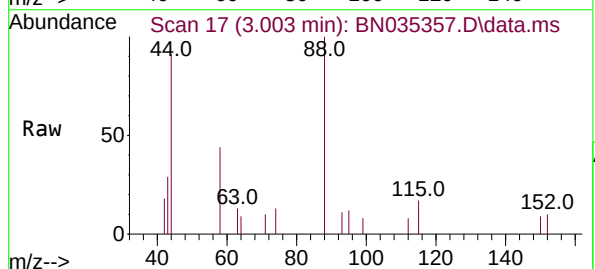
Manual Integrations
APPROVED

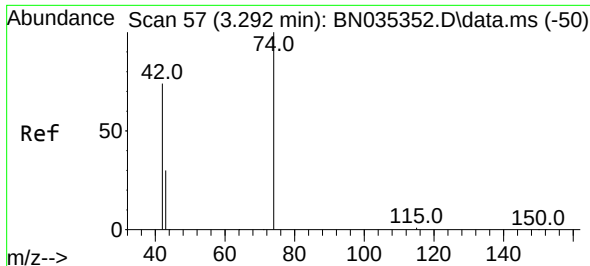
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

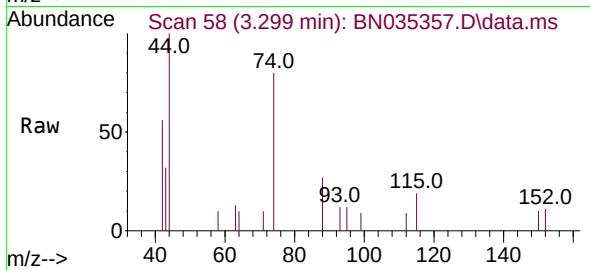
Tgt Ion: 88 Resp: 684
Ion Ratio Lower Upper
88 100
43 21.8 17.2 25.8
58 56.0 44.5 66.7





#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

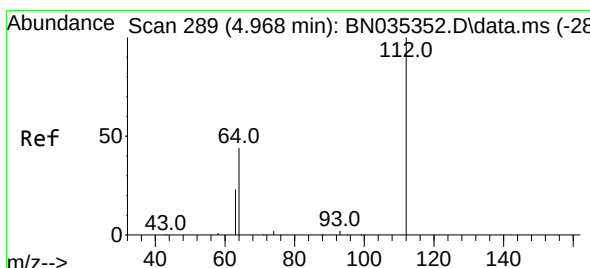
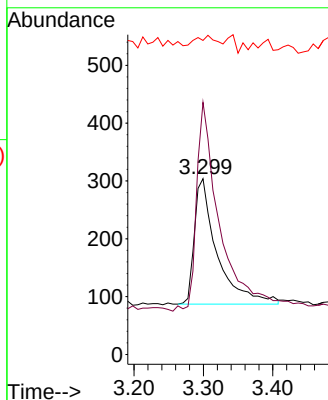
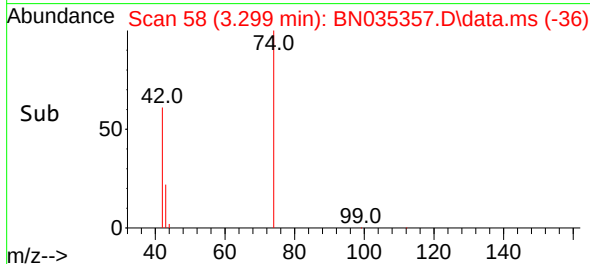
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

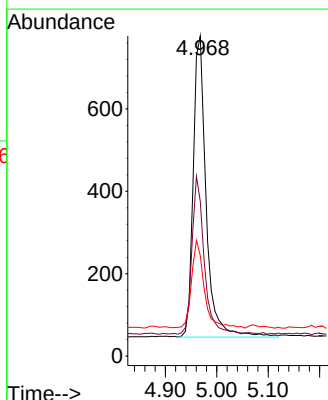
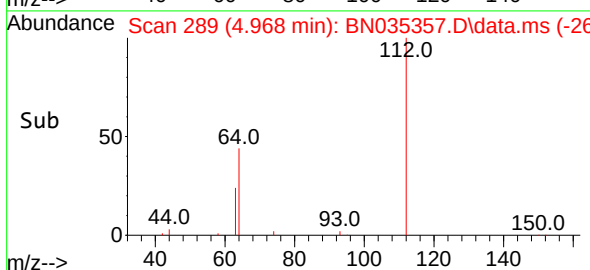
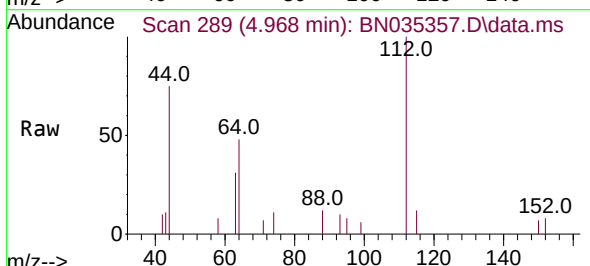
Manual Integrations
APPROVED

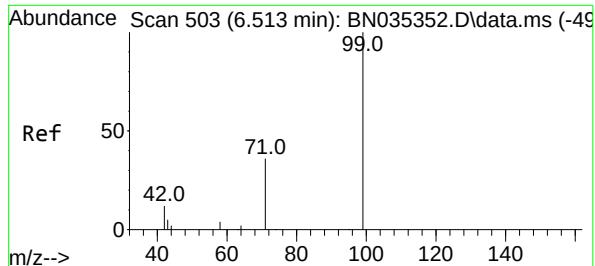
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

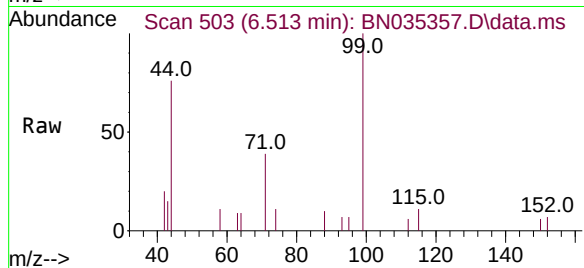
Tgt Ion:112 Resp: 1280
Ion Ratio Lower Upper
112 100
64 49.0 39.8 59.8
63 28.4 21.0 31.6





#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

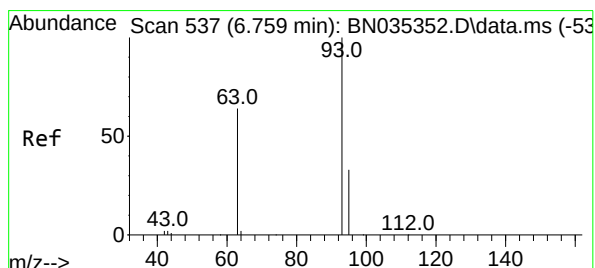
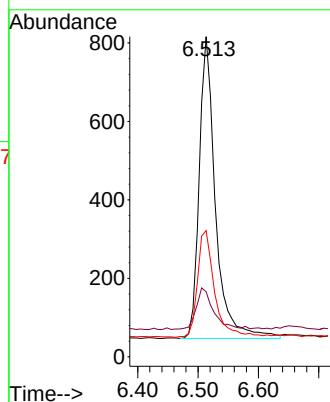
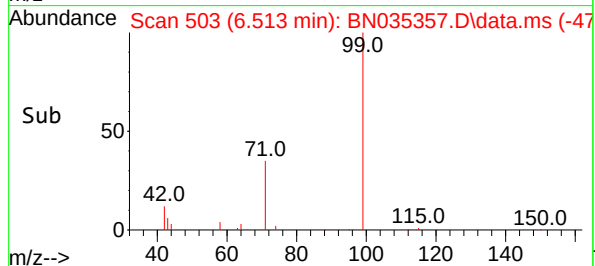
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

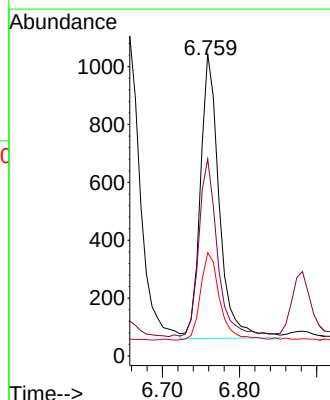
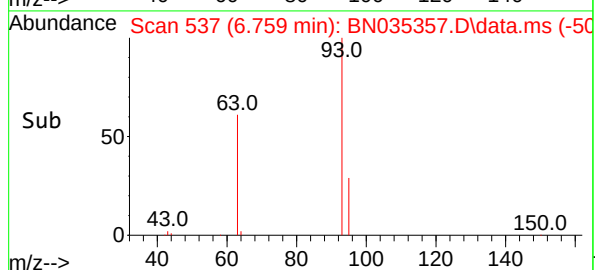
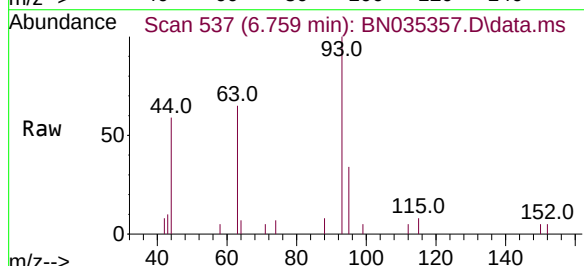
Manual Integrations
APPROVED

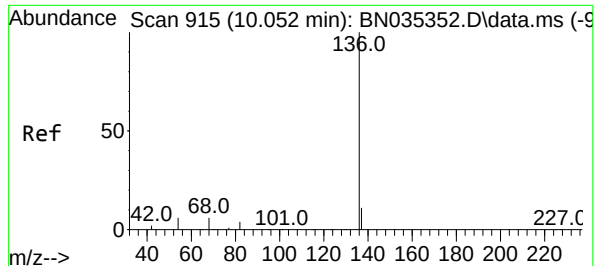
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

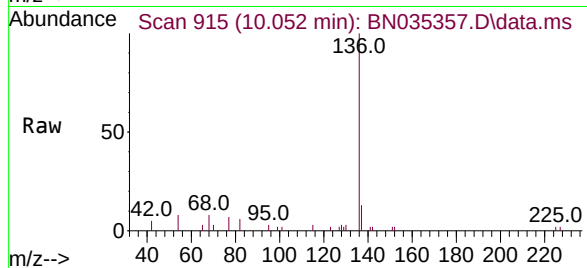
Tgt Ion: 93 Resp: 1676
Ion Ratio Lower Upper
93 100
63 62.1 50.4 75.6
95 31.4 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

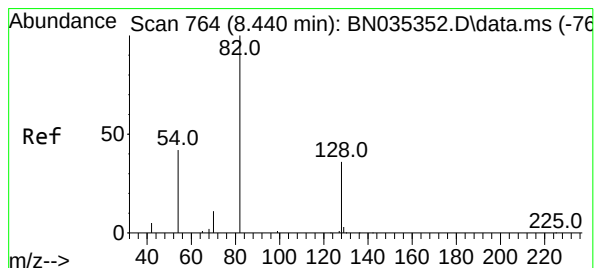
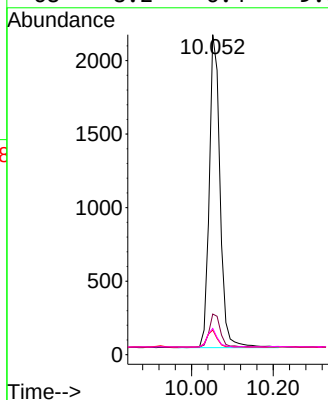
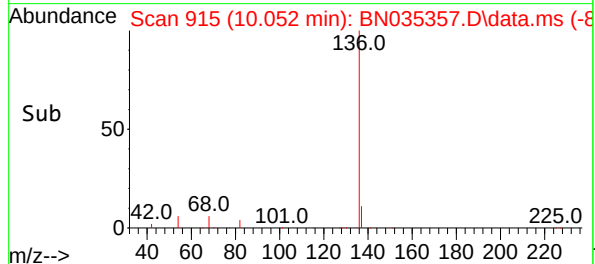
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

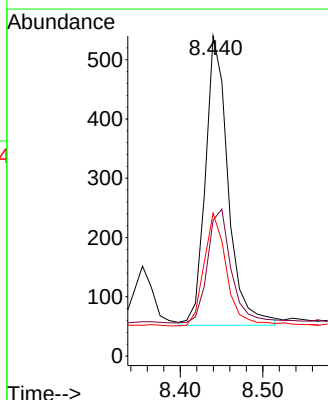
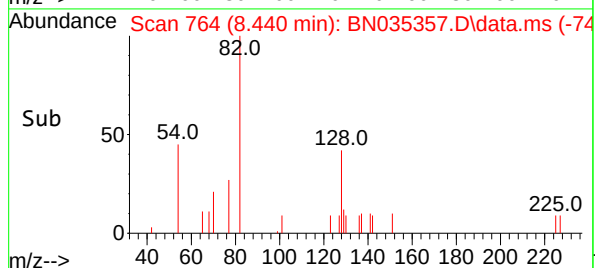
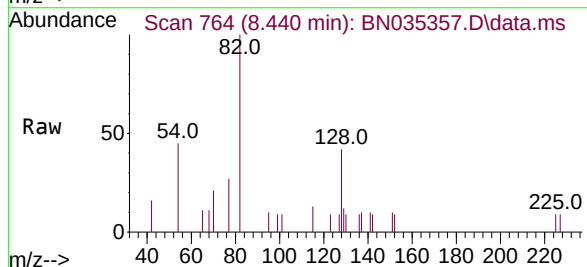
Manual Integrations
APPROVED

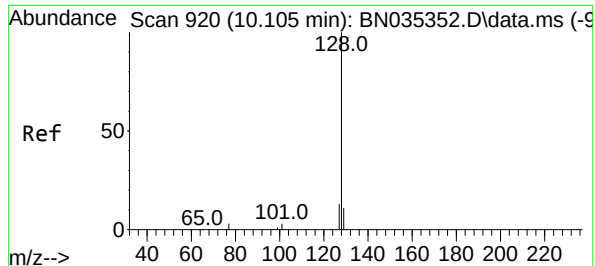
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

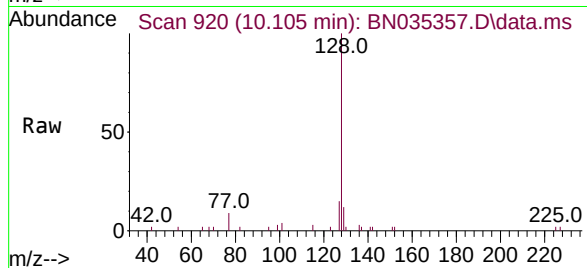
Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1





#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

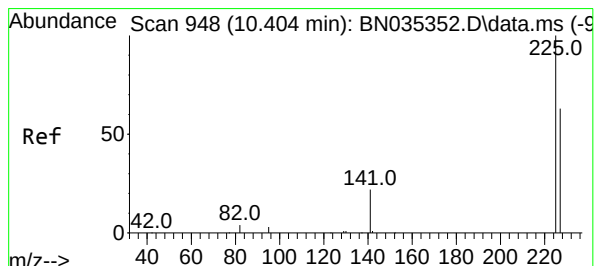
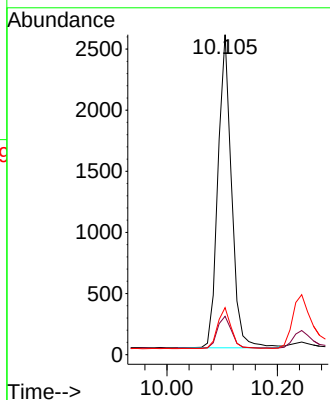
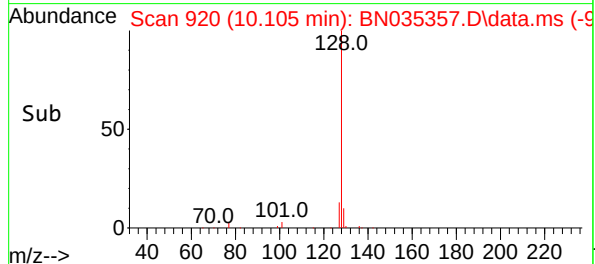
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

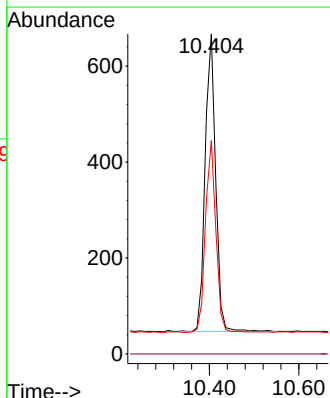
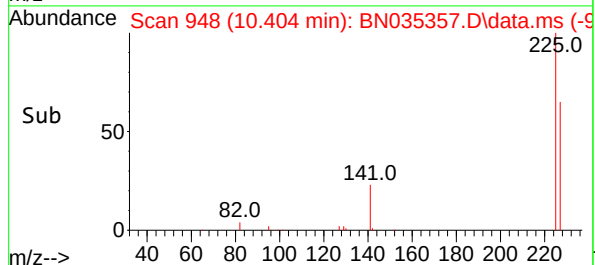
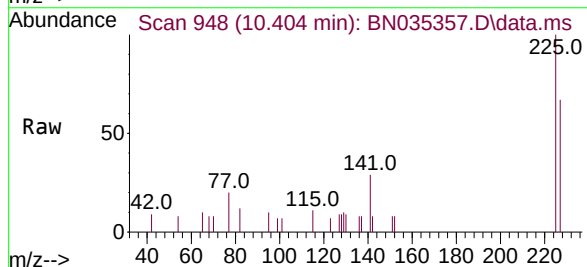
Manual Integrations
APPROVED

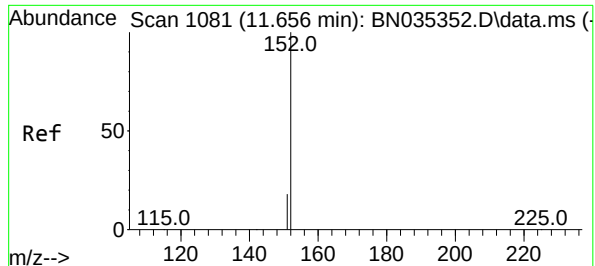
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

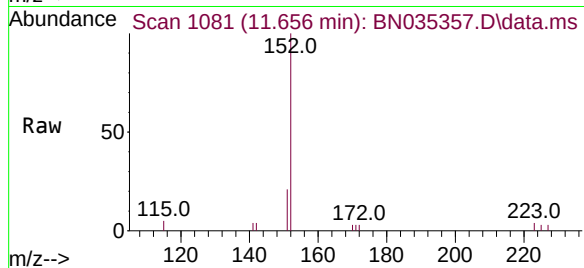
Tgt Ion:225 Resp: 1005
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#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

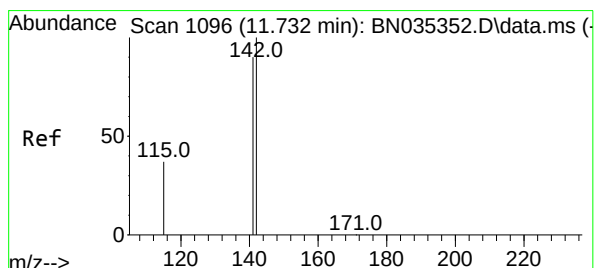
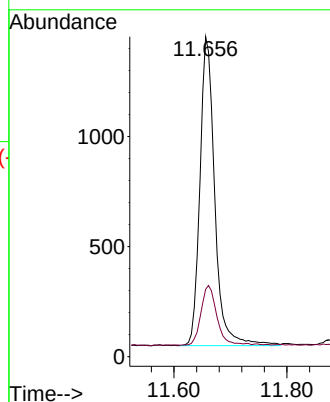
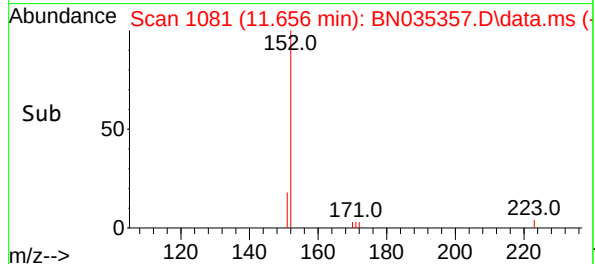
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:152 Resp: 256
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0

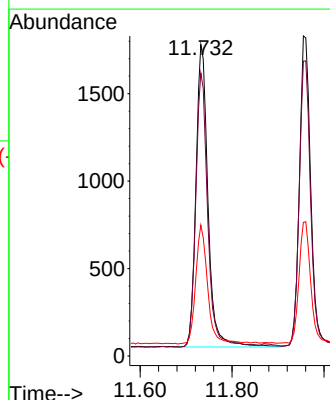
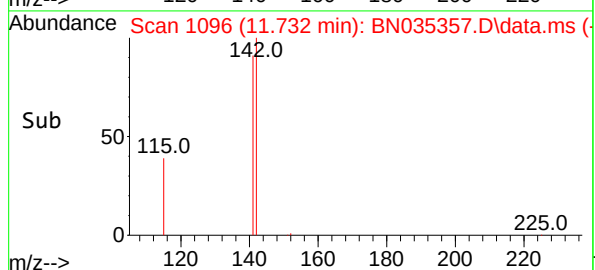
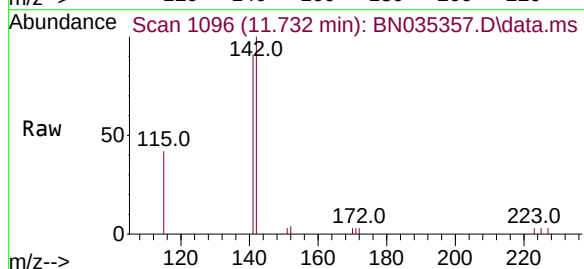
Manual Integrations
APPROVED

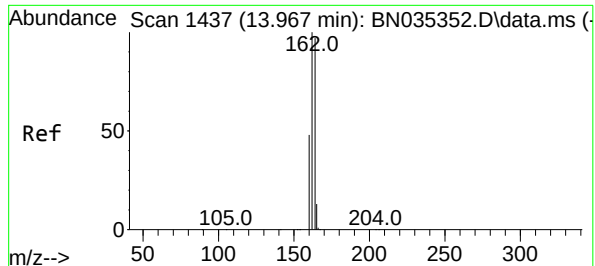
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

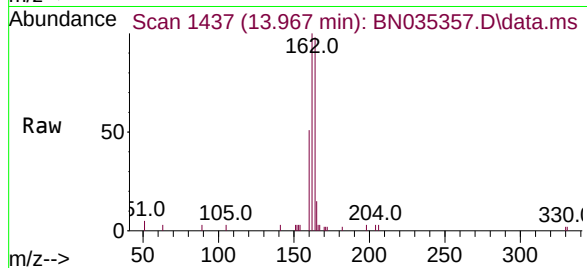
Tgt Ion:142 Resp: 3157
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 42.0 31.4 47.0





#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

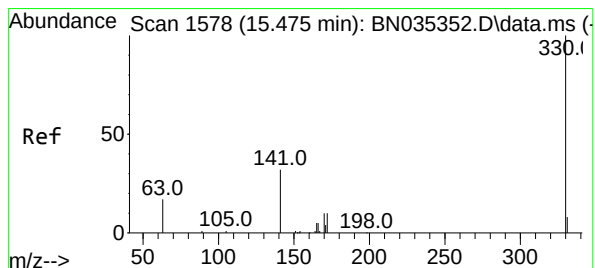
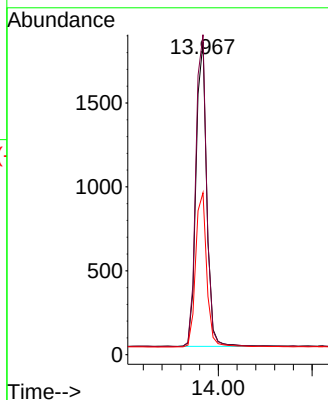
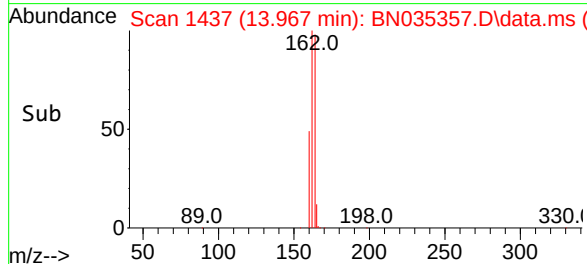
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

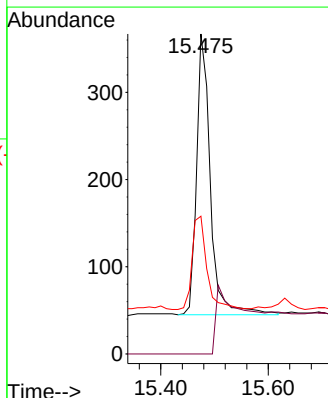
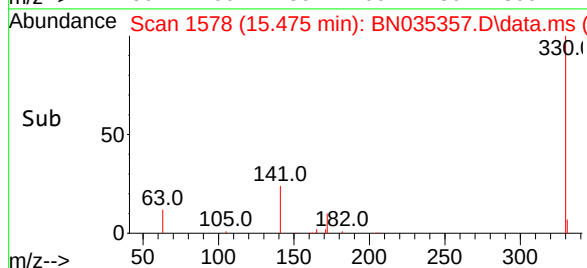
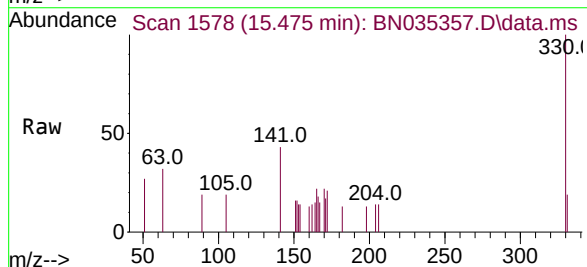
Manual Integrations
APPROVED

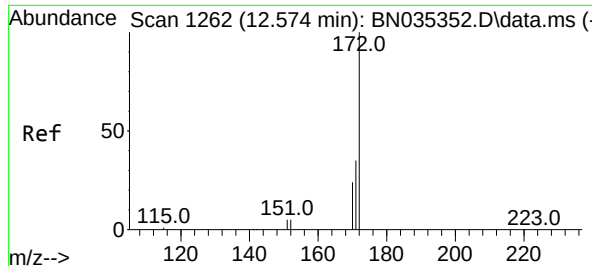
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

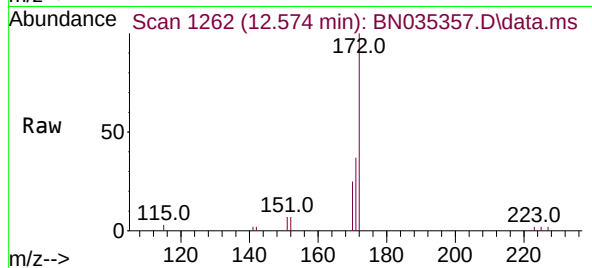
Tgt Ion:330 Resp: 617
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0





#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

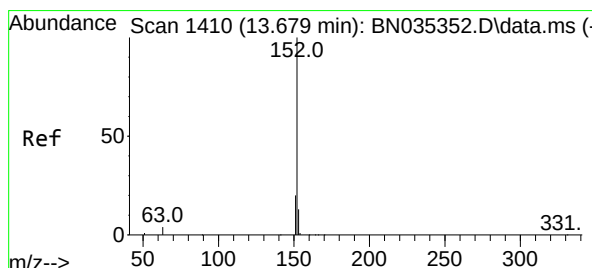
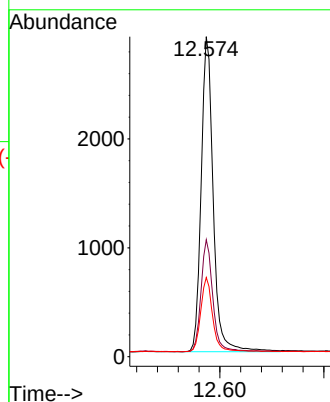
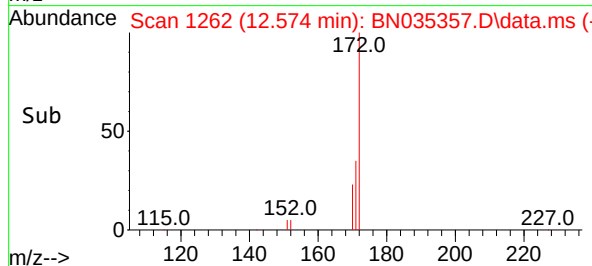
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

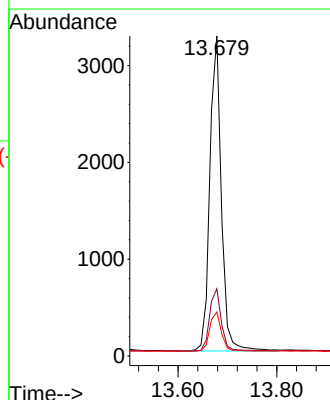
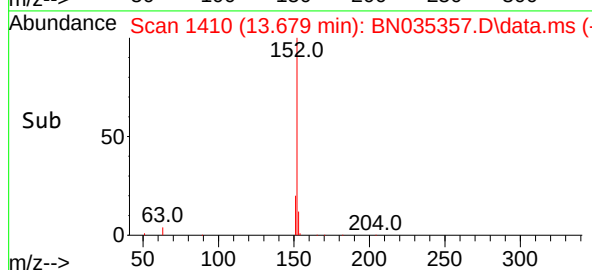
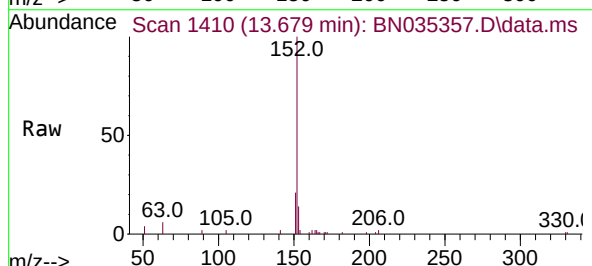
Manual Integrations
APPROVED

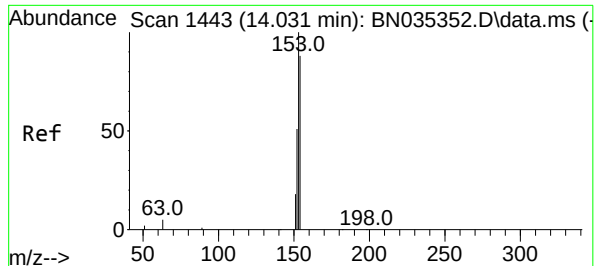
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

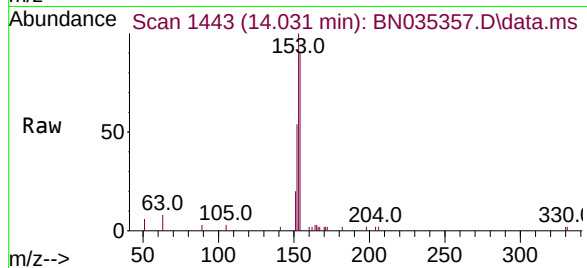
Tgt Ion:152 Resp: 5261
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 12.7 10.4 15.6





#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

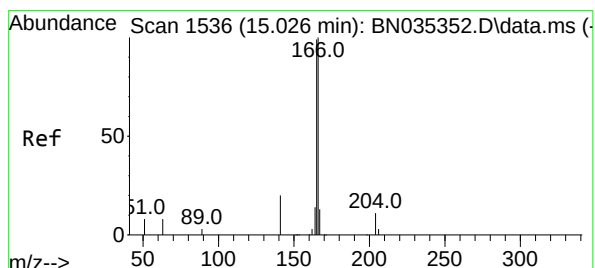
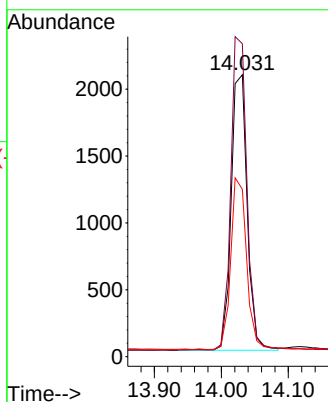
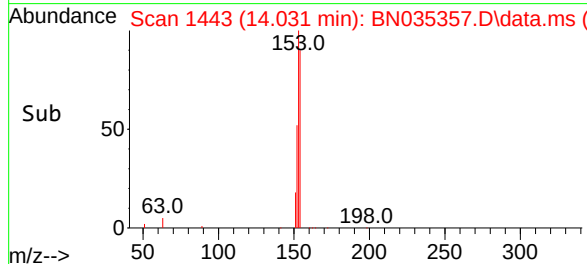
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

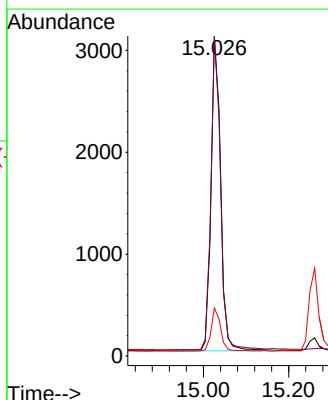
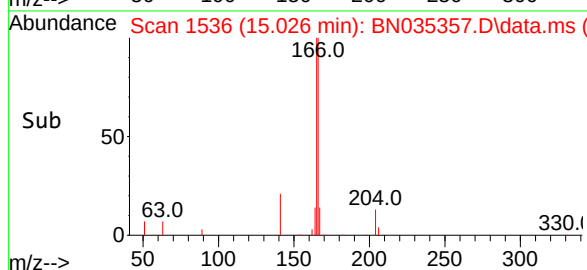
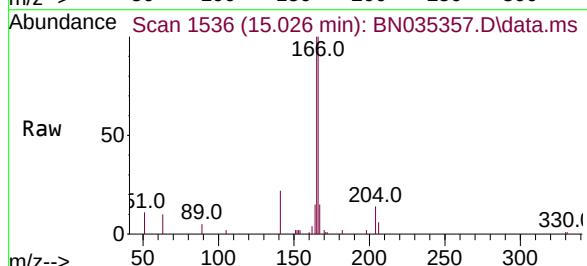
Manual Integrations
APPROVED

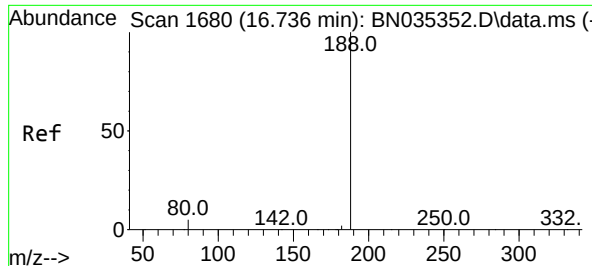
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

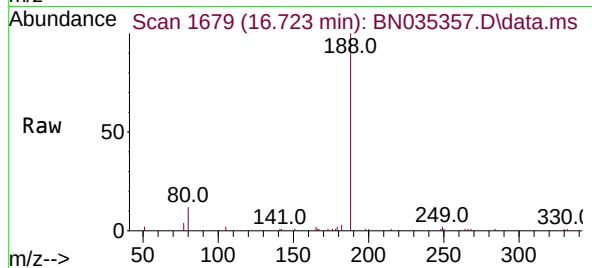
Tgt Ion:166 Resp: 4825
Ion Ratio Lower Upper
166 100
165 98.4 79.7 119.5
167 13.6 10.8 16.2





#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

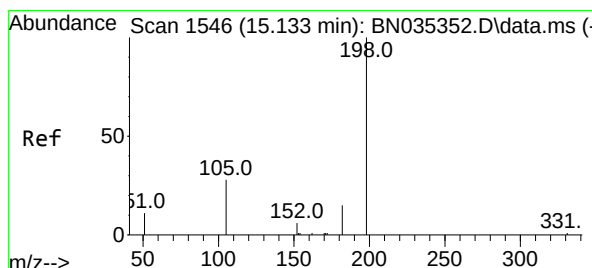
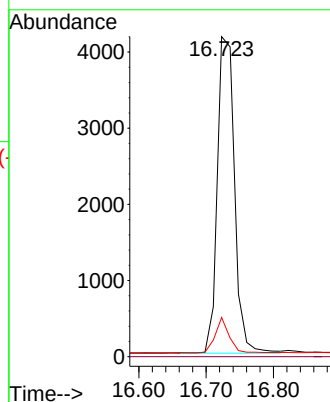
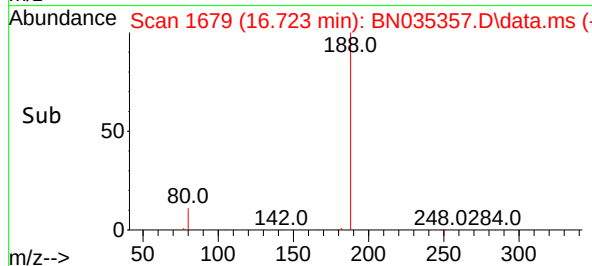
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

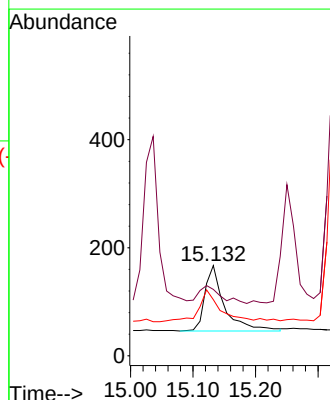
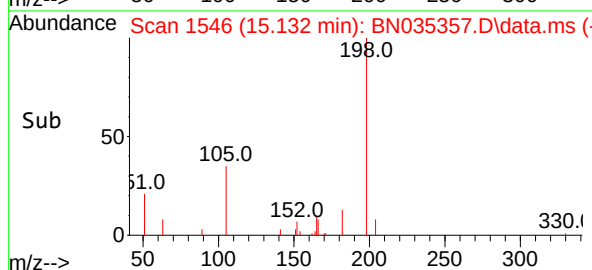
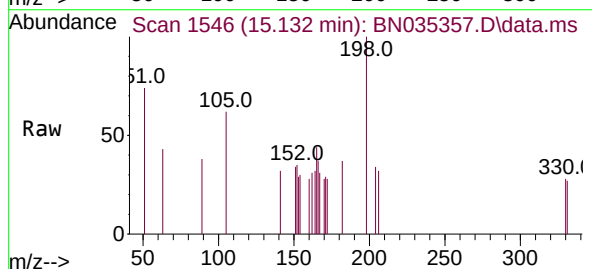
Manual Integrations
APPROVED

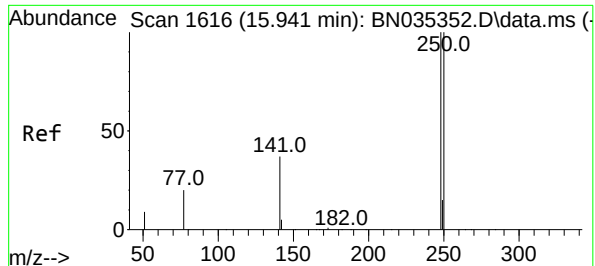
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263
Ion Ratio Lower Upper
198 100
51 73.7 46.5 69.7#
105 62.3 45.3 67.9





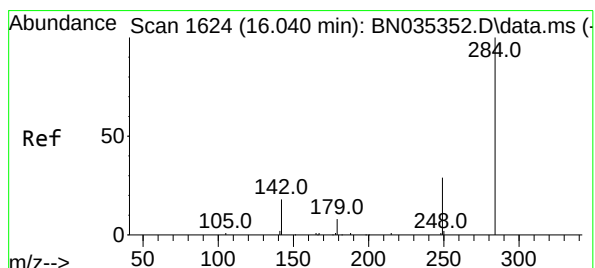
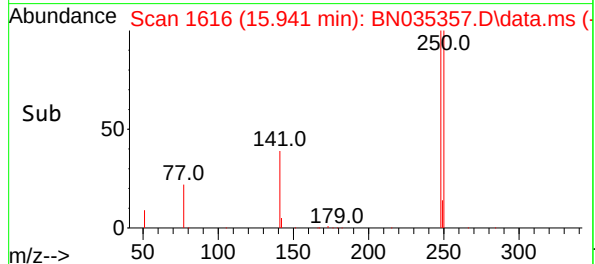
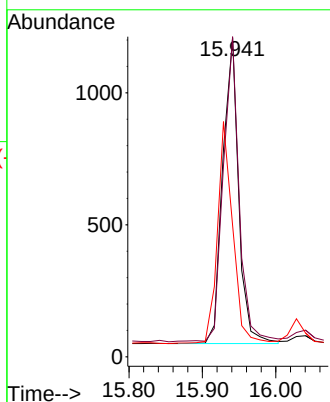
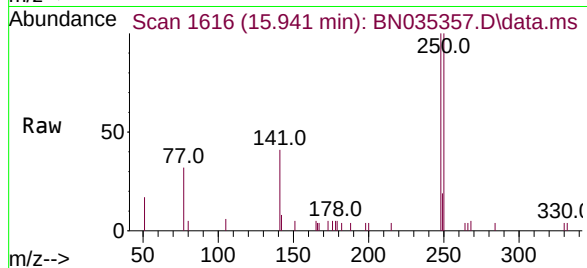
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

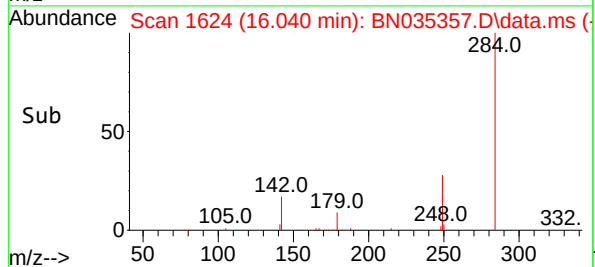
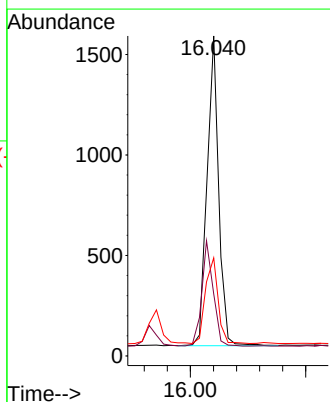
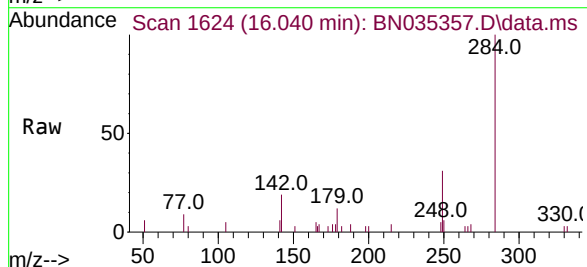
Manual Integrations
APPROVED

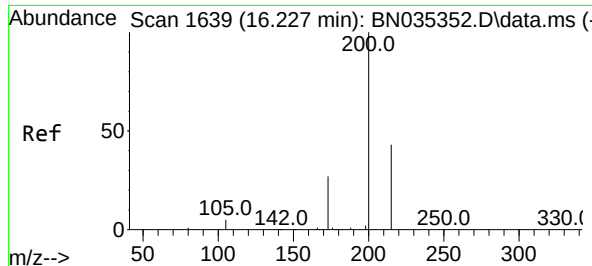
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

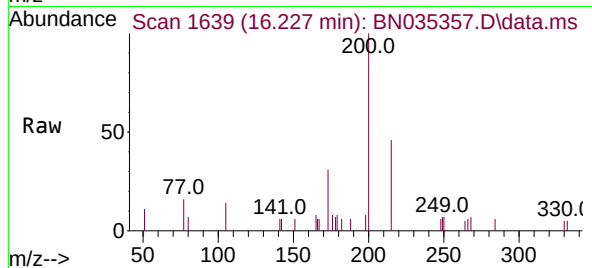
Tgt Ion:284 Resp: 2151
Ion Ratio Lower Upper
284 100
142 33.5 26.7 40.1
249 30.0 24.6 36.8





#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

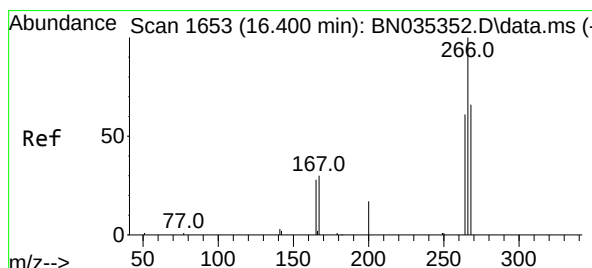
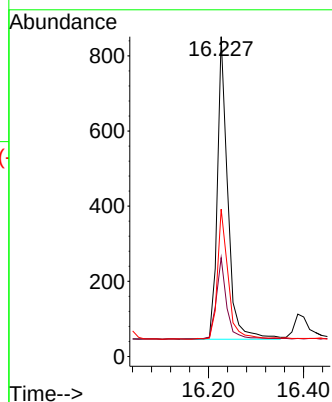
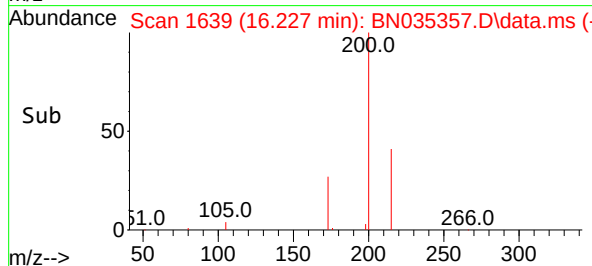
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

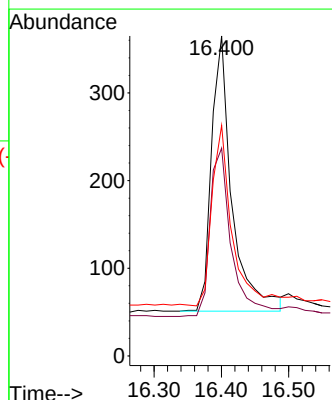
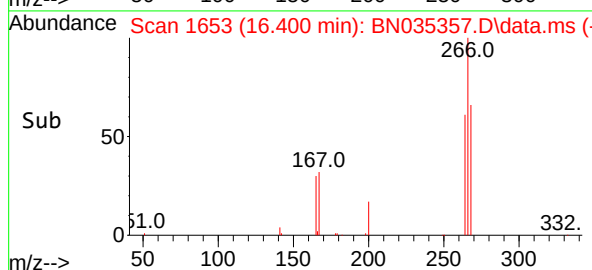
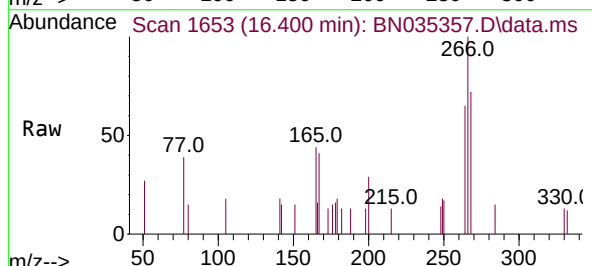
Manual Integrations
APPROVED

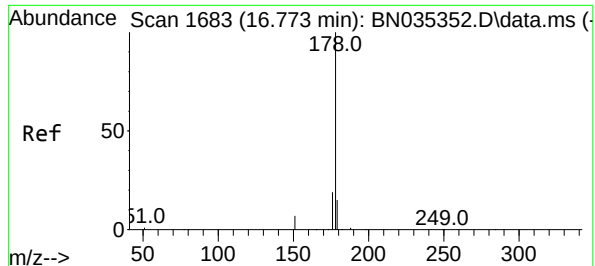
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

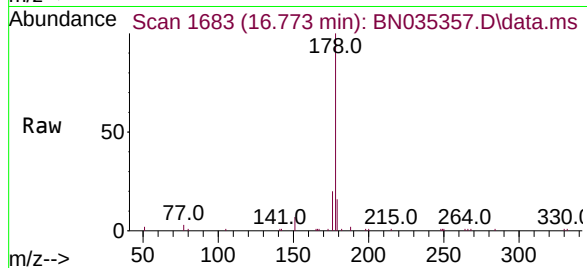
Tgt Ion:266 Resp: 662
Ion Ratio Lower Upper
266 100
264 65.0 42.3 63.5#
268 66.8 43.3 64.9#





#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

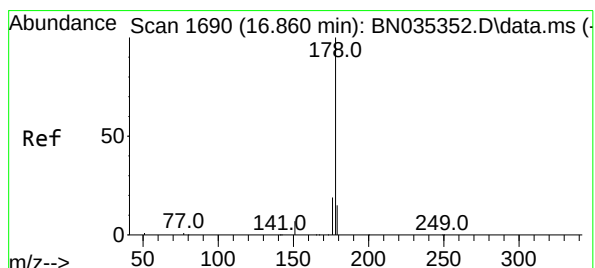
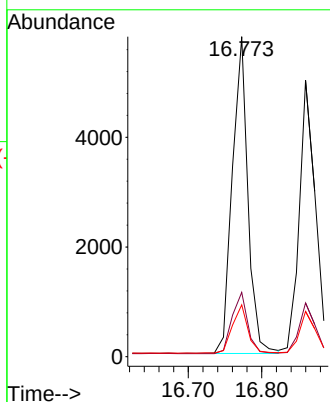
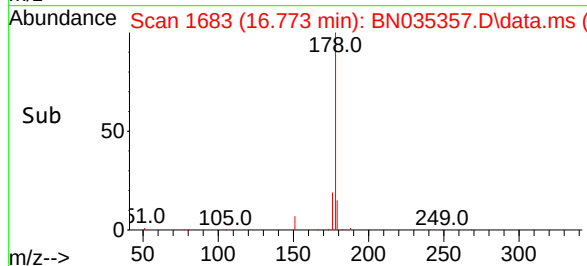
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

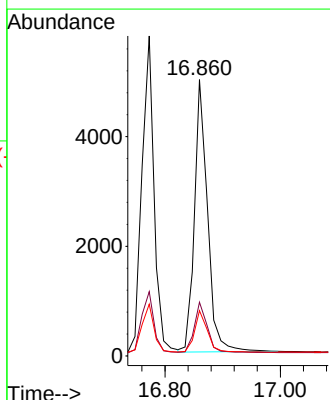
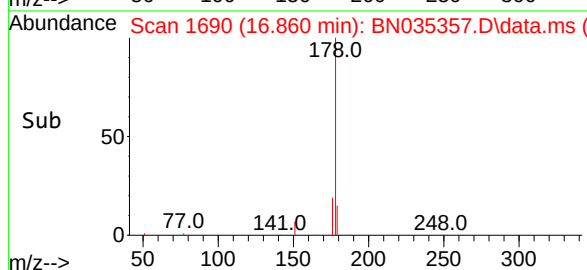
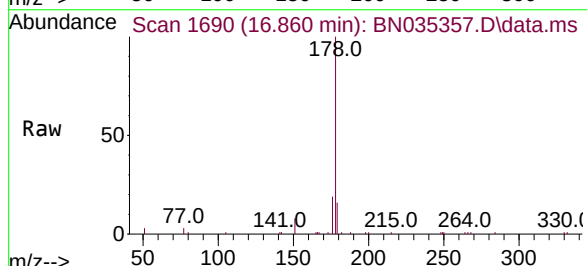
Manual Integrations
APPROVED

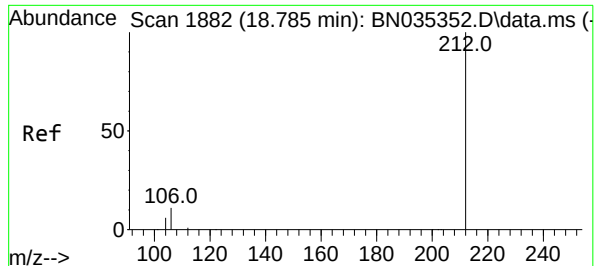
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





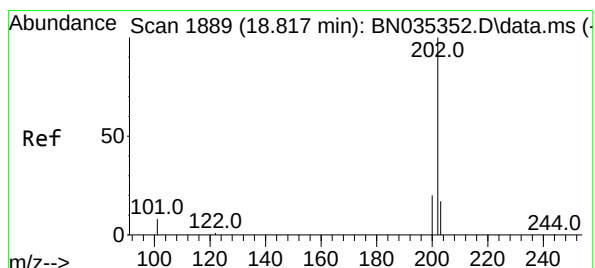
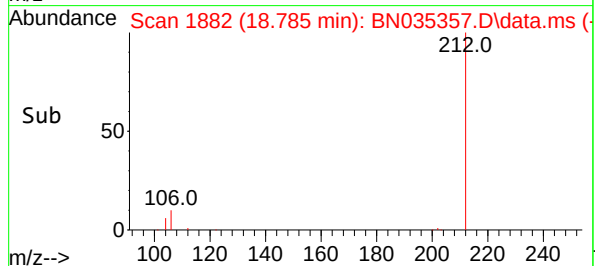
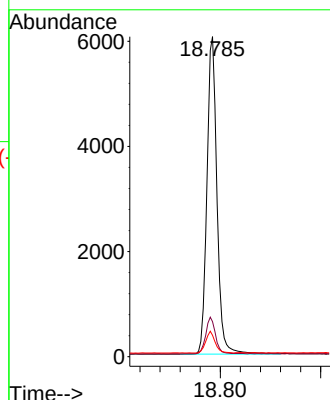
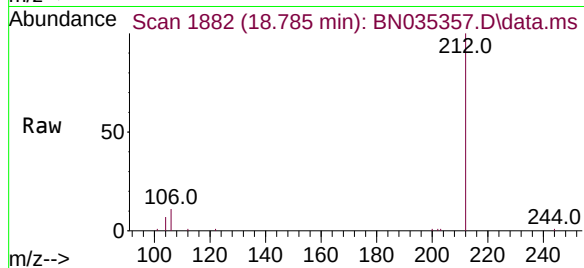
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 841
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.4 5.3 7.9

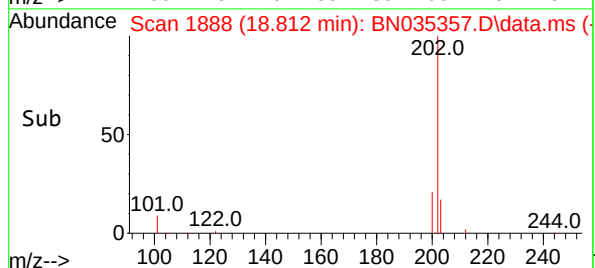
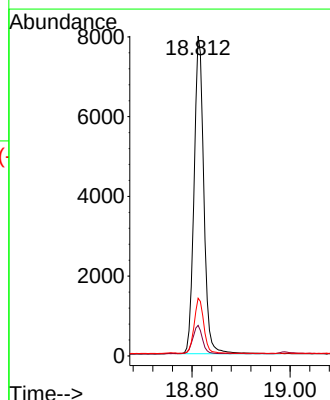
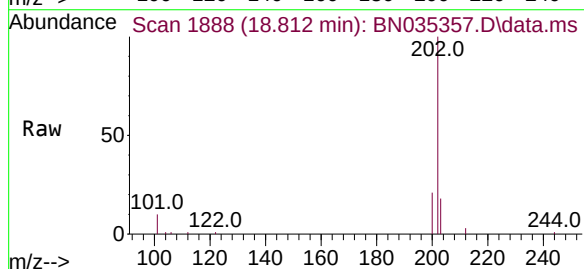
Manual Integrations
APPROVED

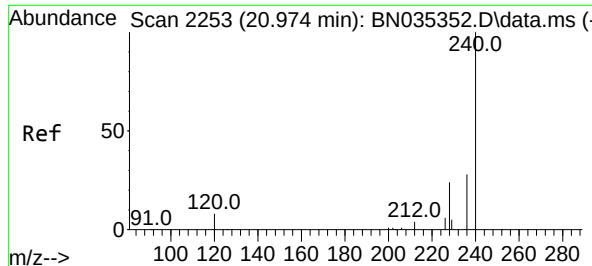
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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: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 :

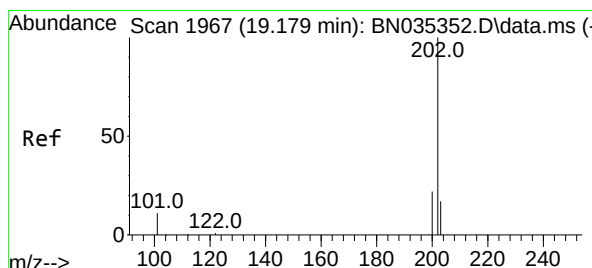
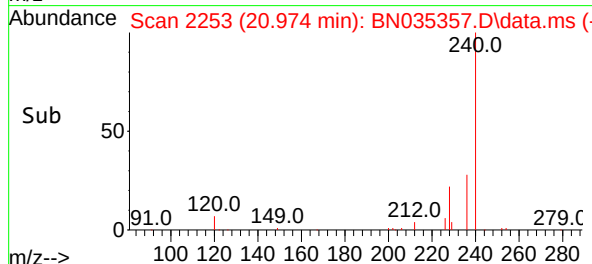
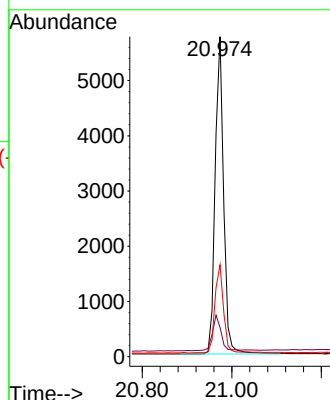
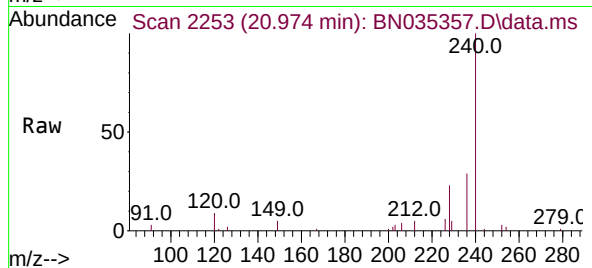
ICVBN112724

Tgt Ion:240	Resp:	7570
Ion	Ratio	Lower Upper
240	100	
120	9.1	7.9 11.9
236	28.7	22.9 34.3

Manual Integrations

APPROVED

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



#30

Pyrene

Concen: 0.410 ng

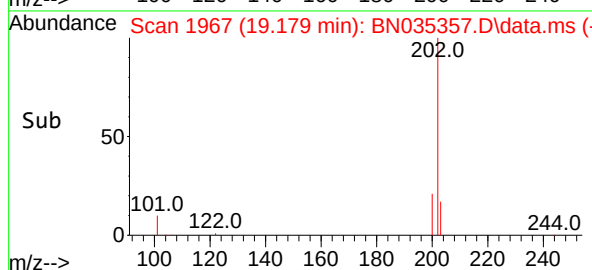
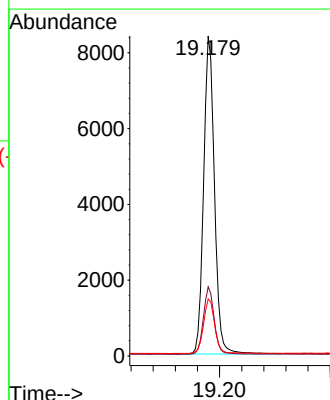
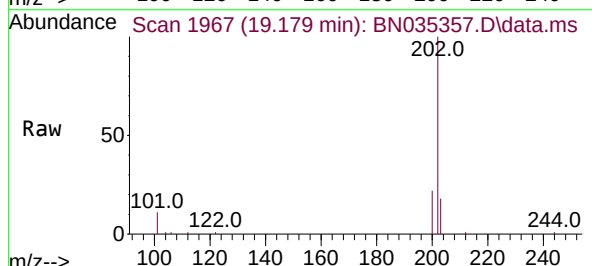
RT: 19.179 min Scan# 1967

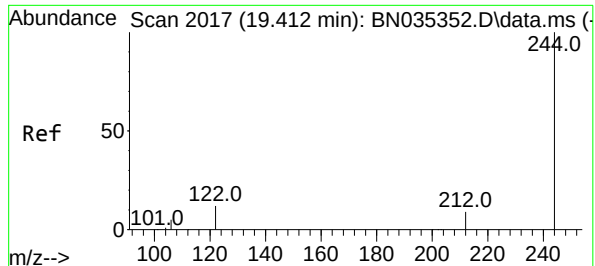
Delta R.T. -0.000 min

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 :

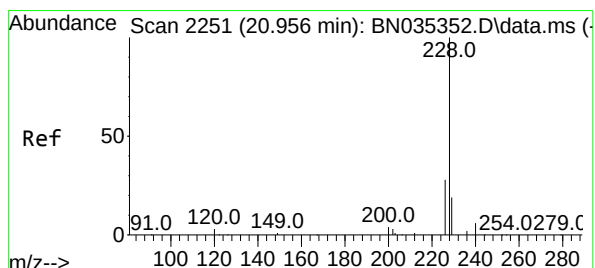
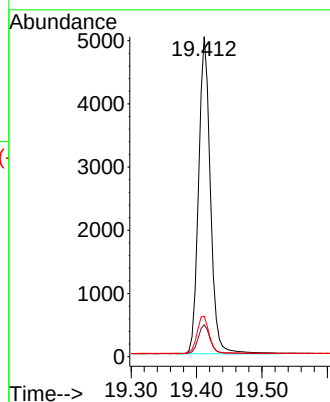
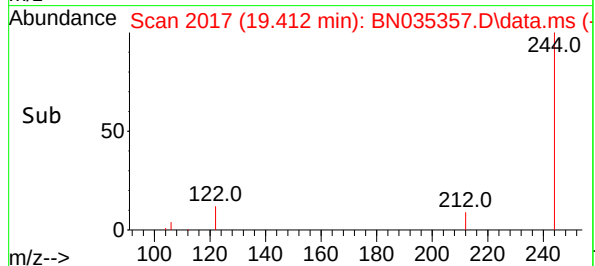
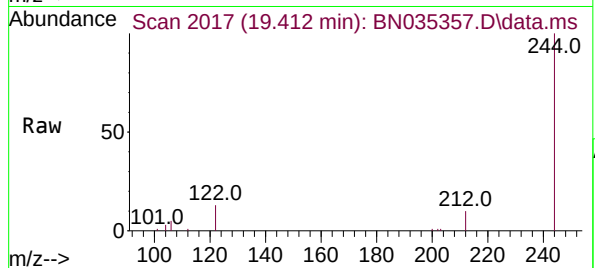
ICVBN112724

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

Manual Integrations

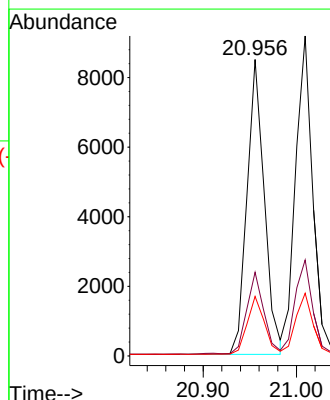
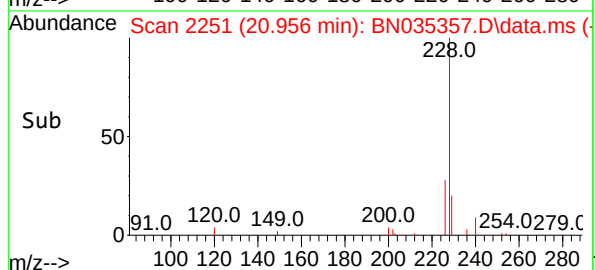
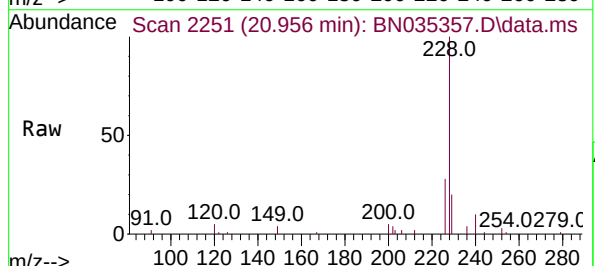
APPROVED

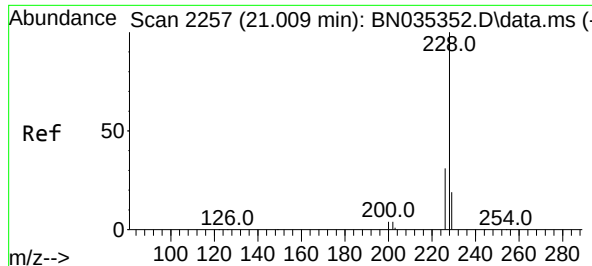
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#32
Benzo(a)anthracene
Concen: 0.413 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	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 :

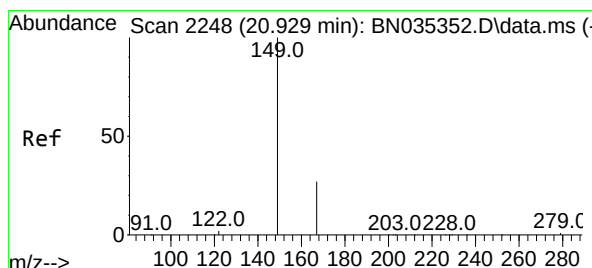
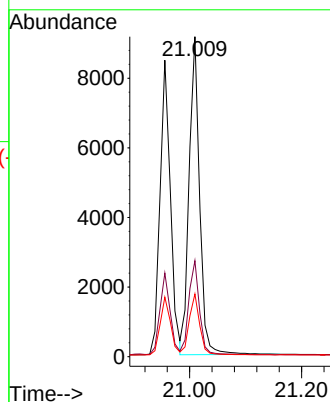
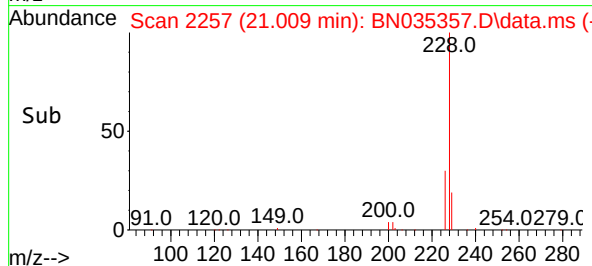
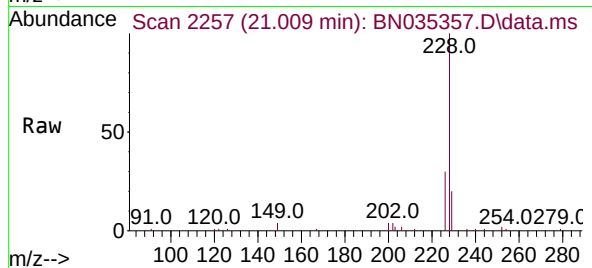
ICVBN112724

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

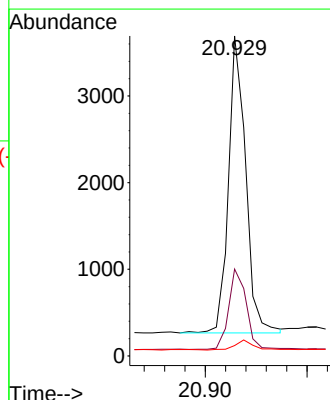
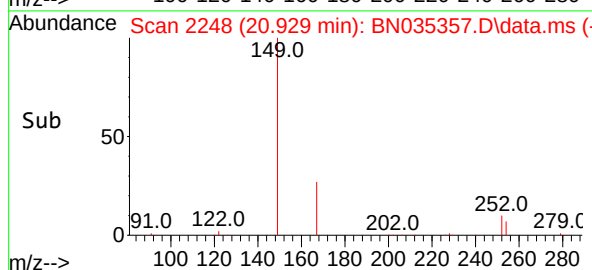
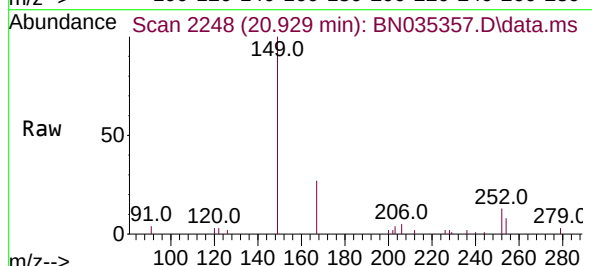
RT: 20.929 min Scan# 2248

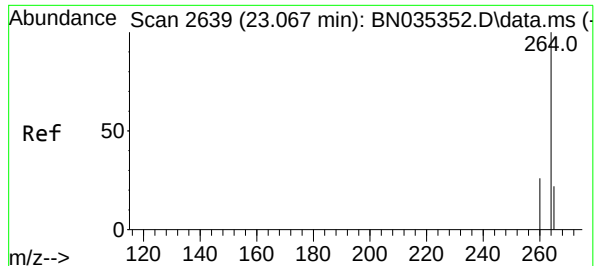
Delta R.T. -0.000 min

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





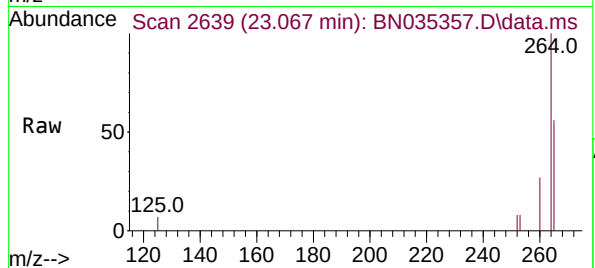
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



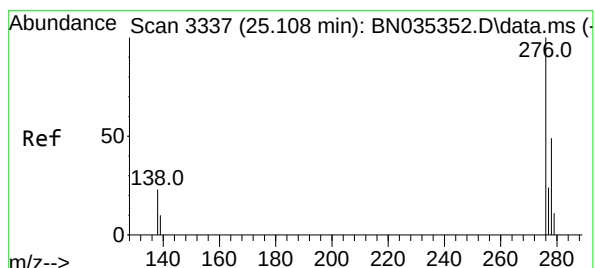
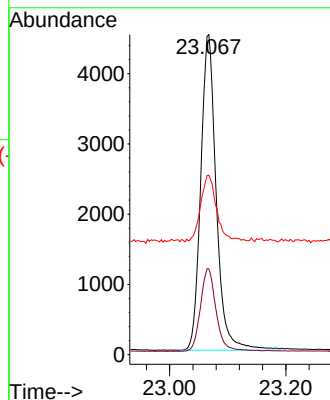
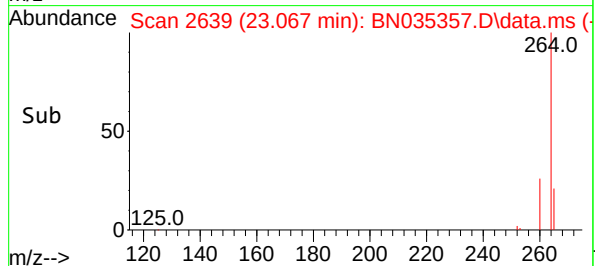
Tgt Ion:264 Resp: 8338
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 56.1 40.2 60.4

Manual Integrations

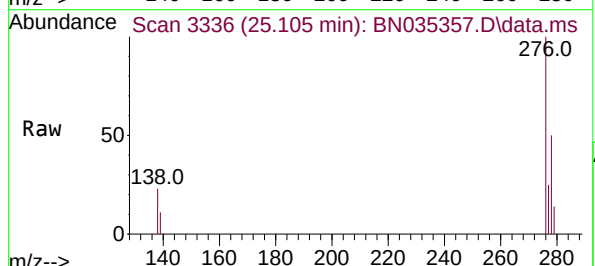
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

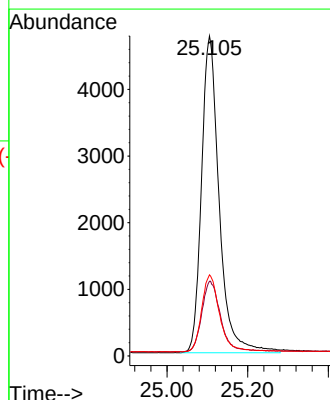
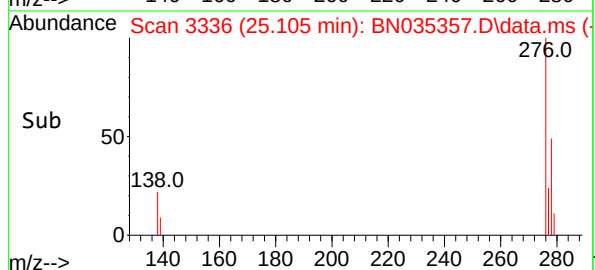
Supervised By :mohammad ahmed 12/03/2024

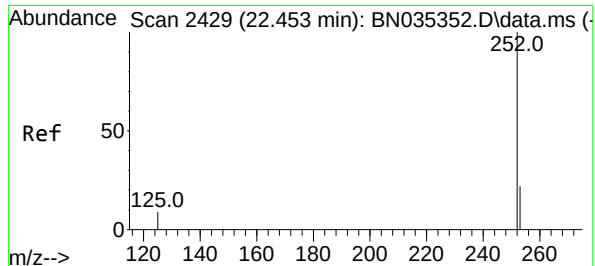


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



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

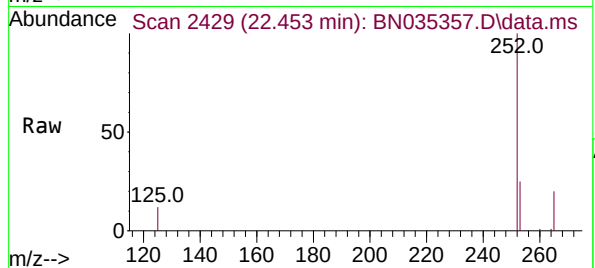
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



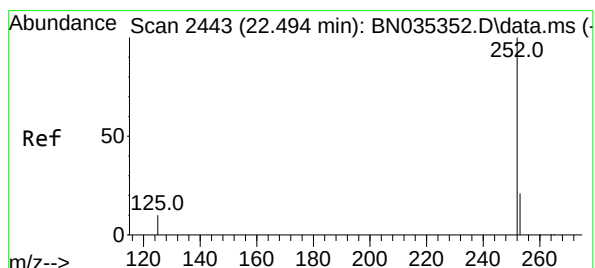
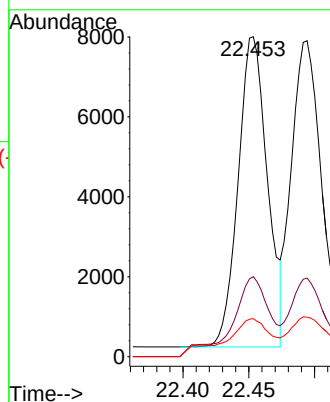
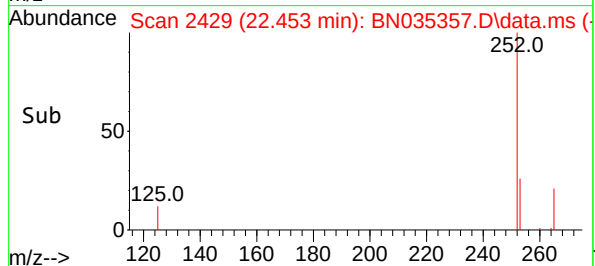
Tgt Ion:	252	Resp:	1298
Ion Ratio	Lower	Upper	
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

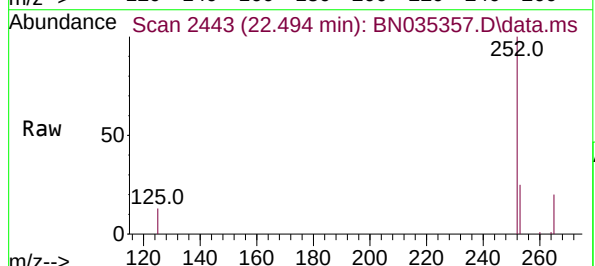
Concen: 0.422 ng

RT: 22.494 min Scan# 2443

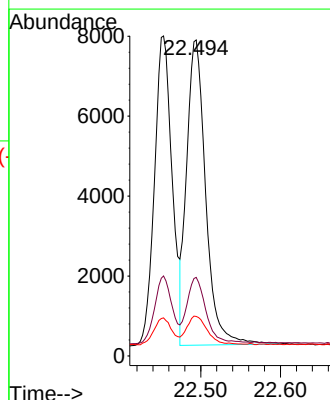
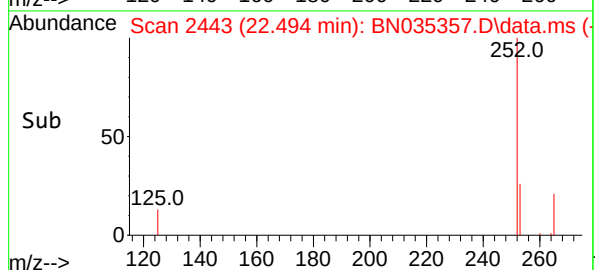
Delta R.T. -0.000 min

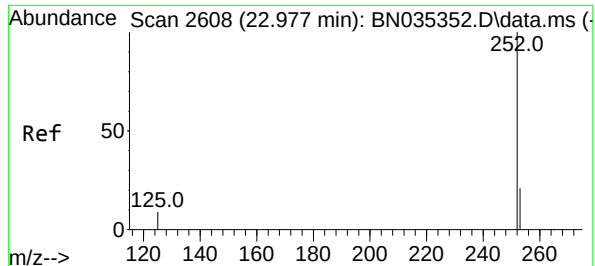
Lab File: BN035357.D

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

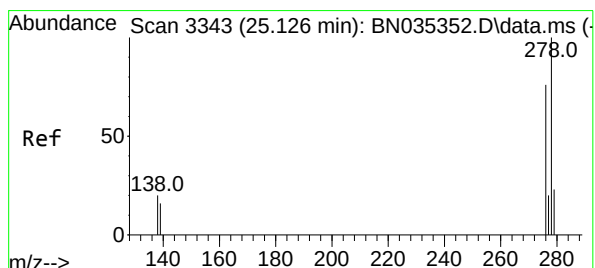
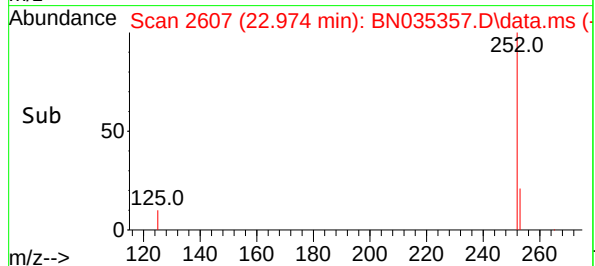
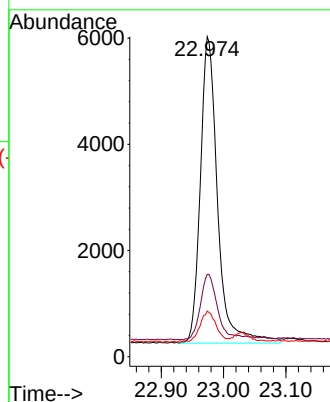
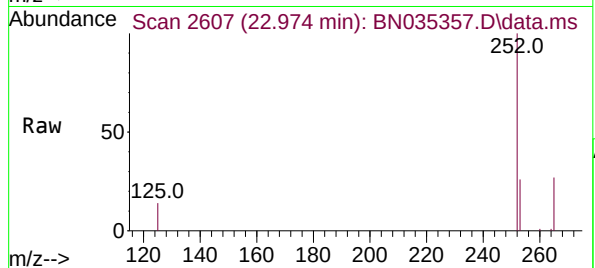
Tgt Ion:	252	Resp:	11094
Ion Ratio	Lower	Upper	
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

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

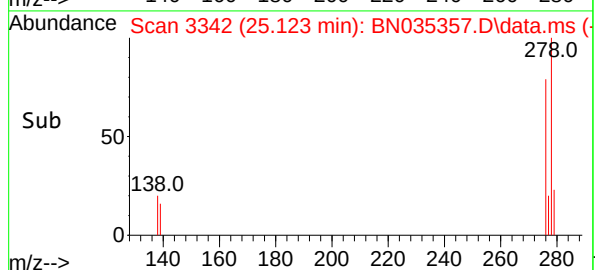
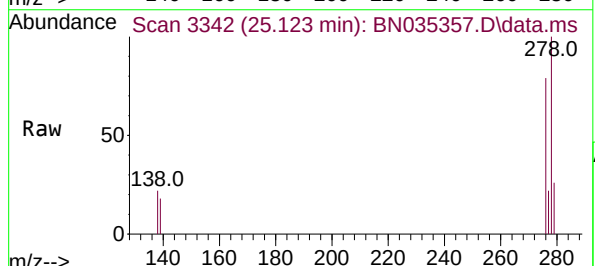
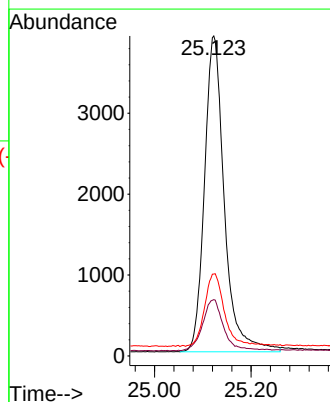
RT: 25.123 min Scan# 3342

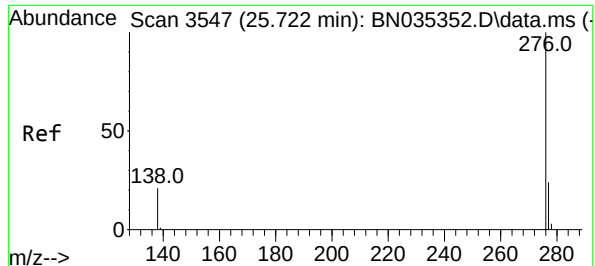
Delta R.T. -0.003 min

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# 31

Delta R.T. -0.000 min

Lab File: BN035357.D

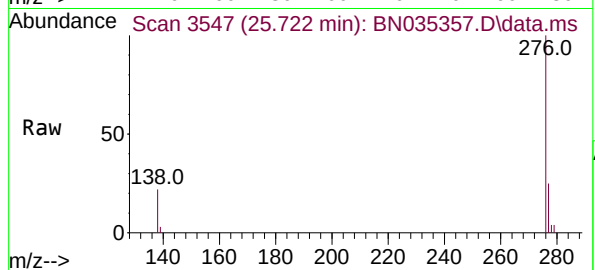
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

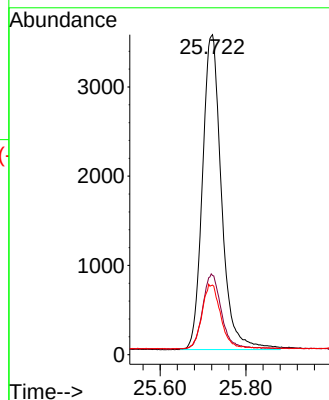
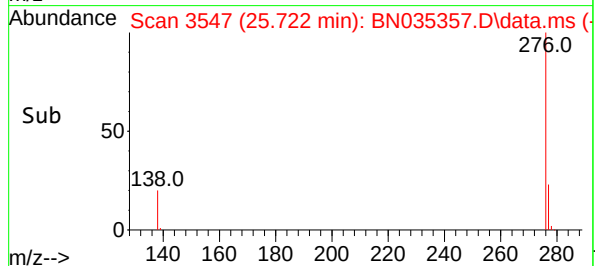
138 21.7 17.8 26.8

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: TETR06

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG No.: P5282

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 08:04

Lab File ID: BN035731.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.562		-10.2	20.0
Fluoranthene-d10	1.134	0.985		-13.1	20.0
2-Fluorophenol	1.001	0.990		-1.1	20.0
Phenol-d6	1.204	1.140		-5.3	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.376		-9.0	20.0
2,4,6-Tribromophenol	0.284	0.221		-22.2	20.0
Terphenyl-d14	0.789	0.839		6.3	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035731.D
 Acq On : 20 Dec 2024 08:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024

Quant Time: Dec 20 08:27:53 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	3239	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	8431	0.400	ng	# 0.00
13) Acenaphthene-d10	13.924	164	5341	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10575	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	8878	0.400	ng	0.00
35) Perylene-d12	23.038	264	9229	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	3206	0.396	ng	0.00
5) Phenol-d6	6.484	99	3691	0.379	ng	0.00
8) Nitrobenzene-d5	8.408	82	2398m	0.466	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	4741	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	1180	0.311	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	7347	0.364	ng	0.00
27) Fluoranthene-d10	18.761	212	10416	0.347	ng	0.00
31) Terphenyl-d14	19.388	244	7453	0.426	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	1312	0.424	ng	96
3) n-Nitrosodimethylamine	3.278	42	1070	0.415	ng	# 94
6) bis(2-Chloroethyl)ether	6.723	93	2987	0.365	ng	100
9) Naphthalene	10.062	128	8331	0.375	ng	100
10) Hexachlorobutadiene	10.351	225	2194	0.428	ng	# 99
12) 2-Methylnaphthalene	11.697	142	5286	0.332	ng	100
16) Acenaphthylene	13.646	152	7931	0.354	ng	100
17) Acenaphthene	13.989	154	5347	0.359	ng	99
18) Fluorene	14.993	166	7004	0.329	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	83	0.080	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2216	0.358	ng	# 71
22) Hexachlorobenzene	16.003	284	3183	0.438	ng	97
23) Atrazine	16.202	200	1696	0.385	ng	98
24) Pentachlorophenol	16.375	266	1107	0.350	ng	# 83
25) Phenanthrene	16.748	178	10192	0.351	ng	100
26) Anthracene	16.835	178	9082	0.346	ng	99
28) Fluoranthene	18.789	202	12678	0.324	ng	99
30) Pyrene	19.156	202	13069	0.399	ng	100
32) Benzo(a)anthracene	20.938	228	10542	0.339	ng	100
33) Chrysene	20.991	228	12448	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5271	0.430	ng	99
36) Indeno(1,2,3-cd)pyrene	25.061	276	13578	0.376	ng	96
37) Benzo(b)fluoranthene	22.427	252	14777	0.438	ng	97
38) Benzo(k)fluoranthene	22.468	252	12300m	0.370	ng	
39) Benzo(a)pyrene	22.947	252	10146	0.365	ng	# 92
40) Dibenzo(a,h)anthracene	25.079	278	10523	0.370	ng	97
41) Benzo(g,h,i)perylene	25.672	276	11906	0.400	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035731.D
 Acq On : 20 Dec 2024 08:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

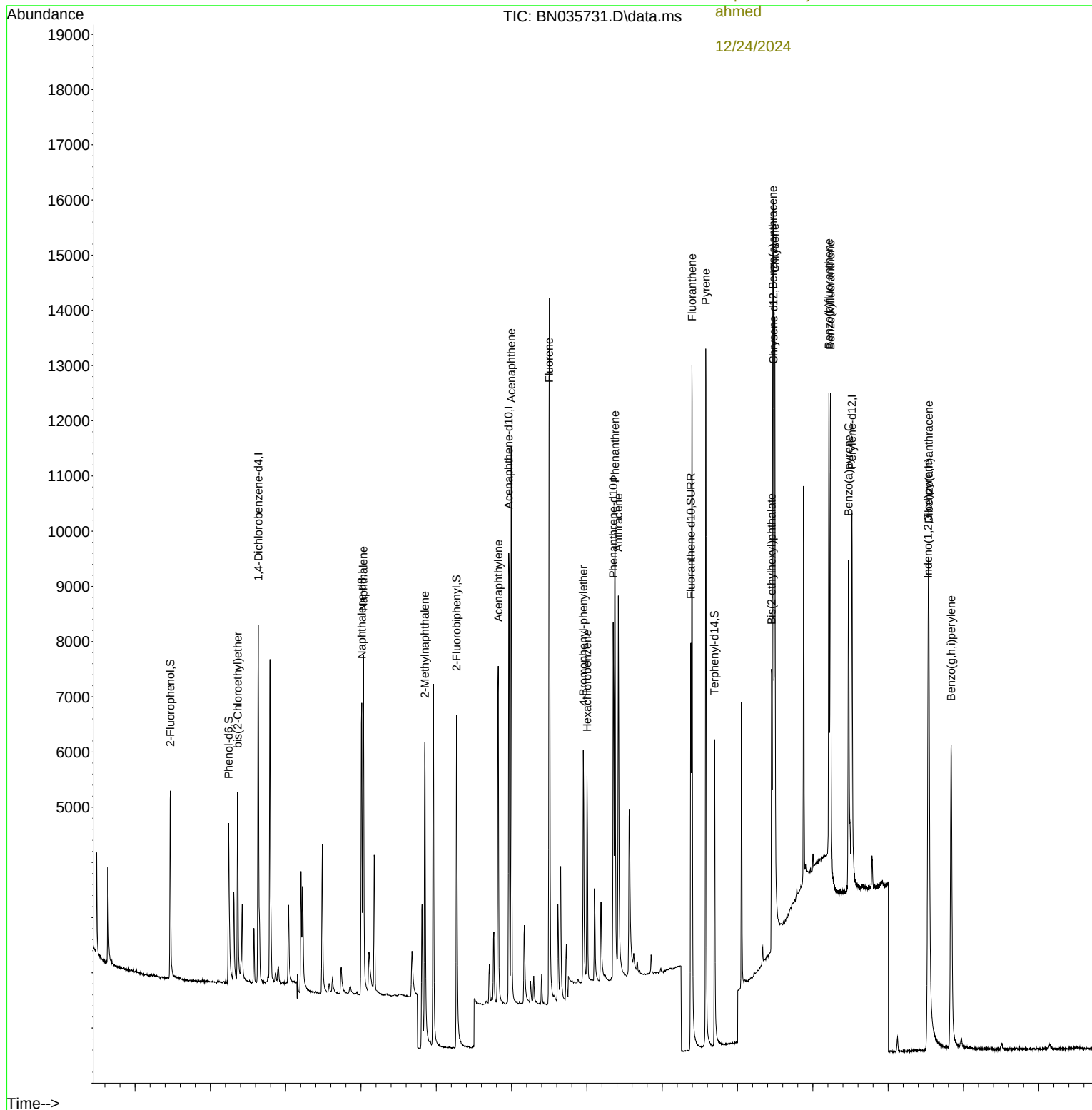
Reviewed By :Yogesh Patel 12/21/2024

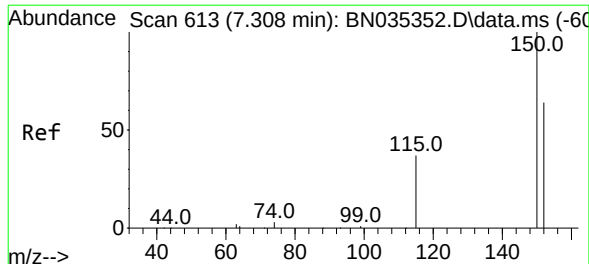
Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024





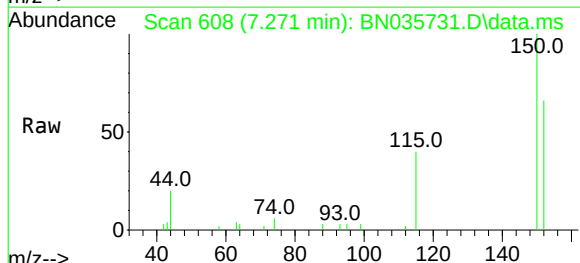
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 60
Delta R.T. -0.001 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 152 Resp: 3239
Ion Ratio Lower Upper
152 100
150 151.6 124.0 186.0
115 60.9 49.6 74.4

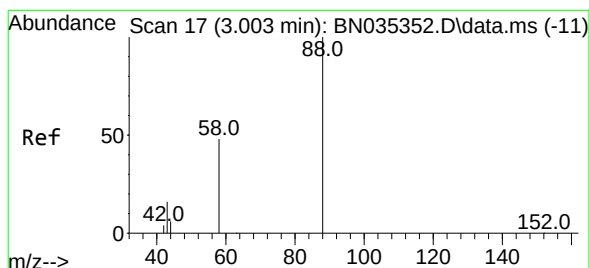
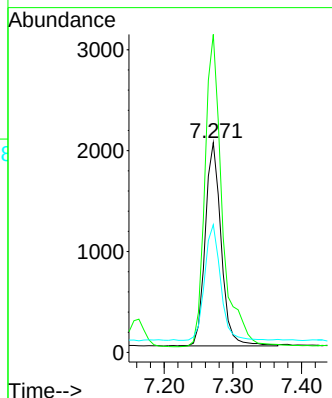
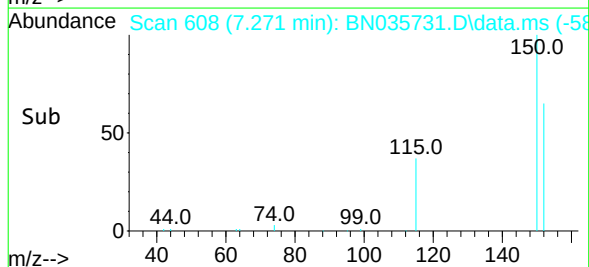
Manual Integrations
APPROVED

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

12/21/2024

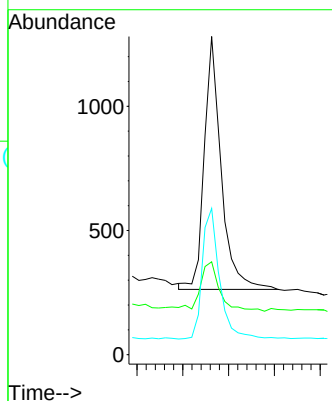
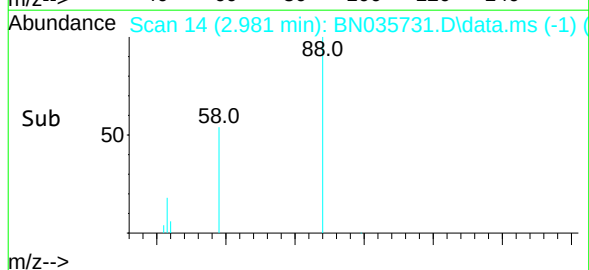
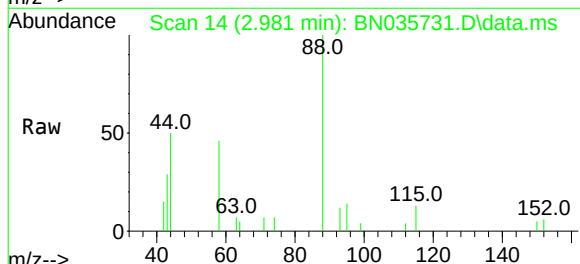
Supervised By :mohammad
ahmed

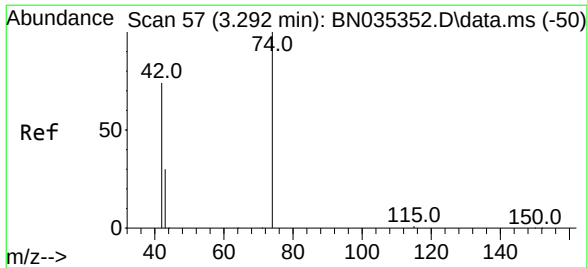
12/24/2024



#2
1,4-Dioxane
Concen: 0.424 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

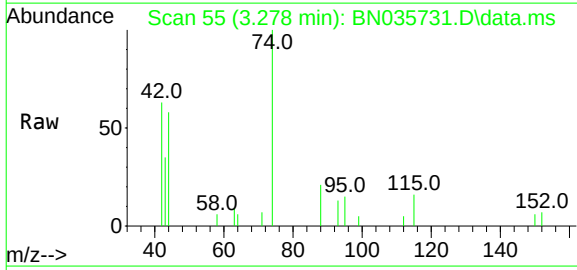
Tgt Ion: 88 Resp: 1312
Ion Ratio Lower Upper
88 100
43 23.4 17.2 25.8
58 52.7 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.278 min Scan# 55
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



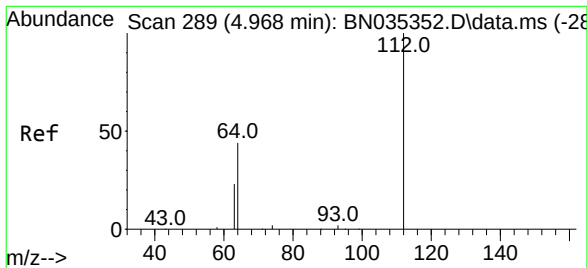
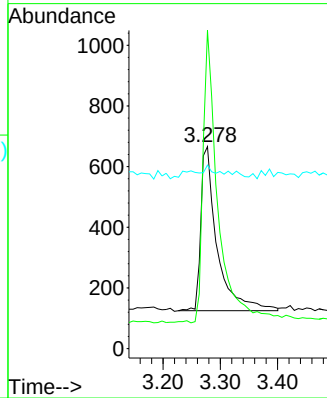
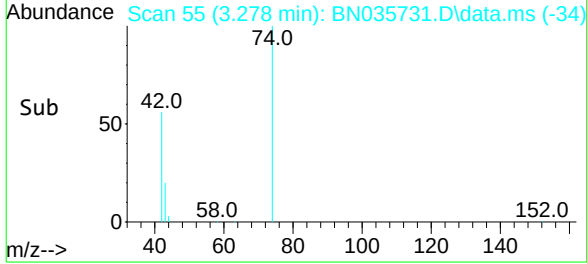
Tgt Ion: 42 Resp: 1070
Ion Ratio Lower Upper
42 100
74 163.5 124.9 187.3
44 1.8 2.2 3.4

Manual Integrations
APPROVED

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

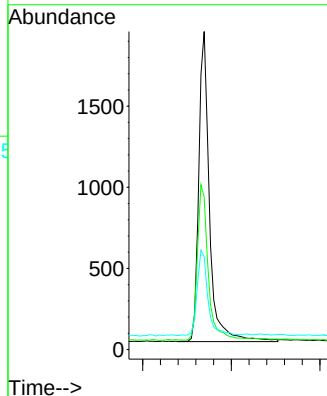
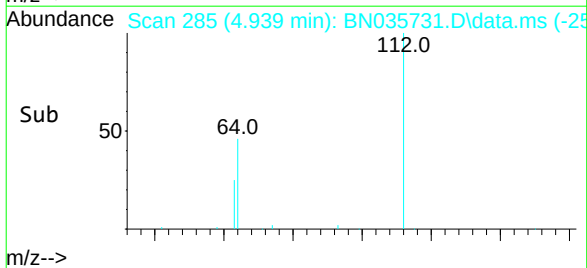
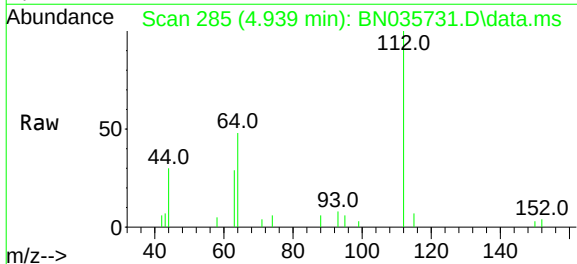
12/21/2024
Supervised By :mohammad
ahmed

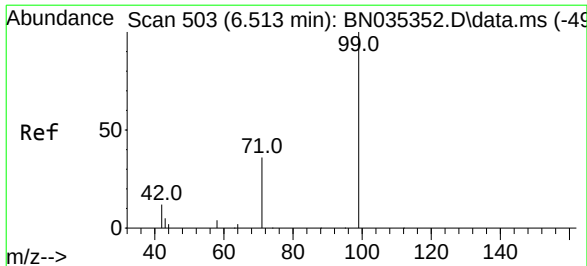
12/24/2024



#4
2-Fluorophenol
Concen: 0.396 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

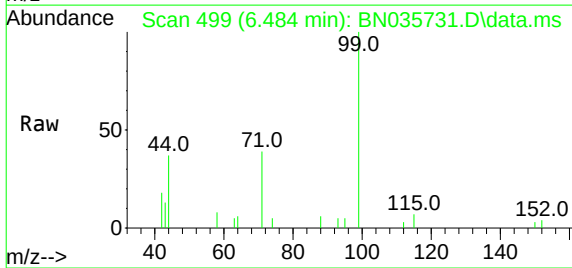
Tgt Ion:112 Resp: 3206
Ion Ratio Lower Upper
112 100
64 50.6 39.8 59.8
63 27.8 21.0 31.6





#5
Phenol-d6
Concen: 0.379 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



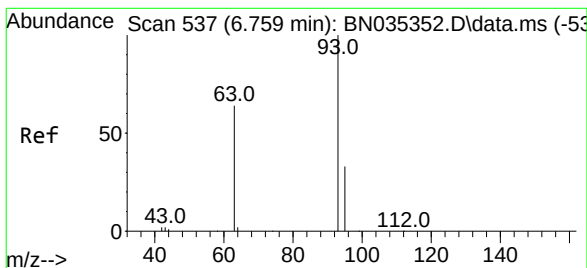
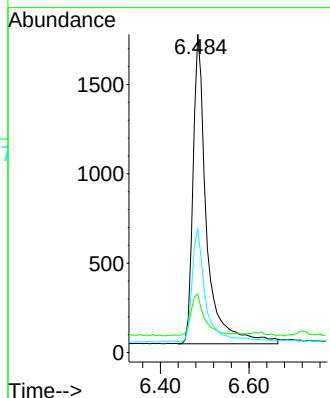
Tgt Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	36.7	29.3	43.9

Manual Integrations
APPROVED

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

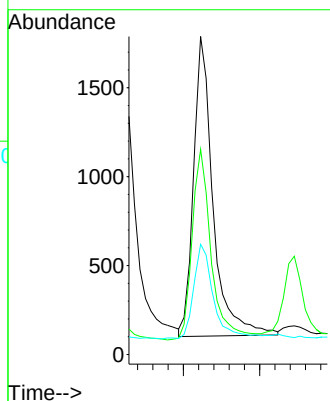
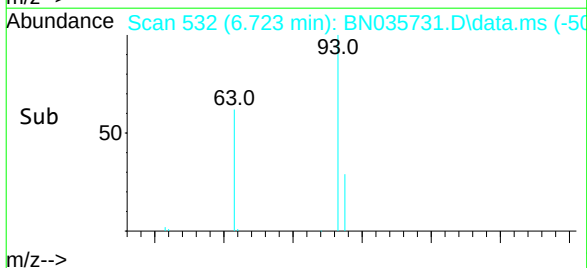
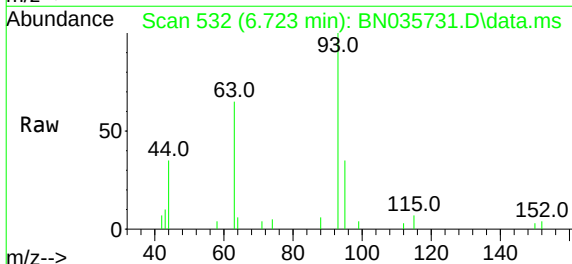
12/21/2024
Supervised By :mohammad
ahmed

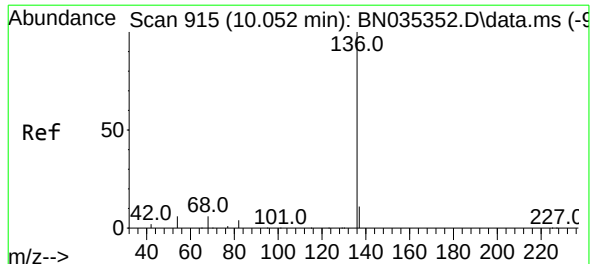
12/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

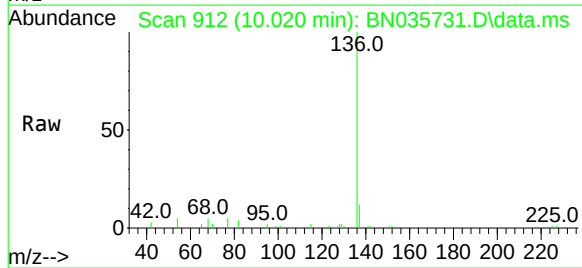
Tgt Ion	Ratio	Lower	Upper
93	100		
63	62.5	50.4	75.6
95	32.2	25.7	38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



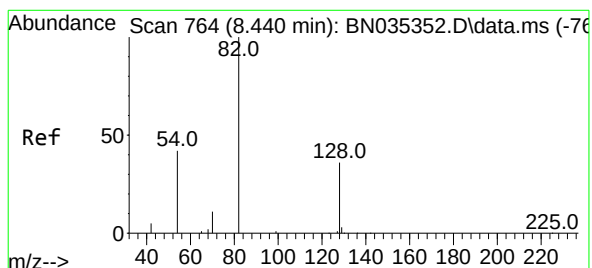
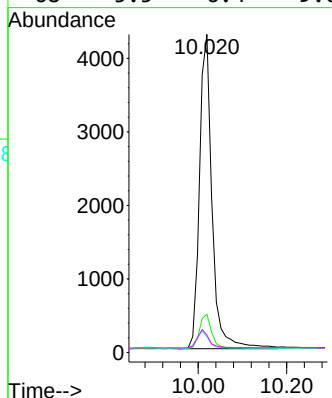
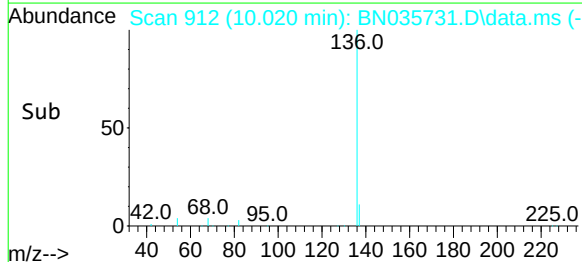
Tgt Ion: 136 Resp: 8431
Ion Ratio Lower Upper
136 100
137 12.0 10.2 15.2
54 5.0 6.1 9.1#
68 5.5 6.4 9.6#

Manual Integrations
APPROVED

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

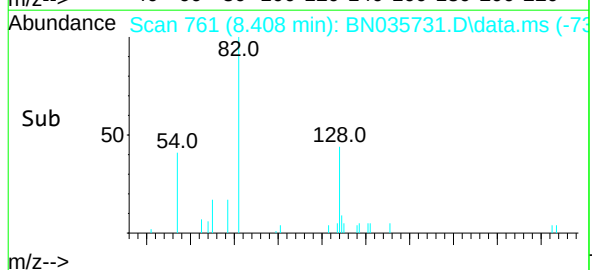
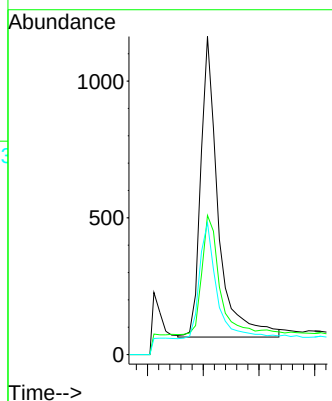
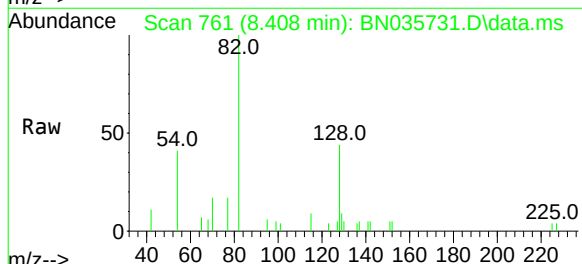
12/21/2024
Supervised By :mohammad
ahmed

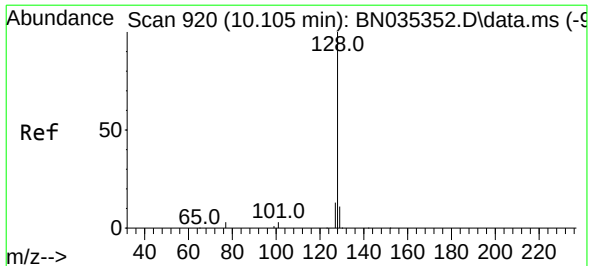
12/24/2024



#8
Nitrobenzene-d5
Concen: 0.466 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

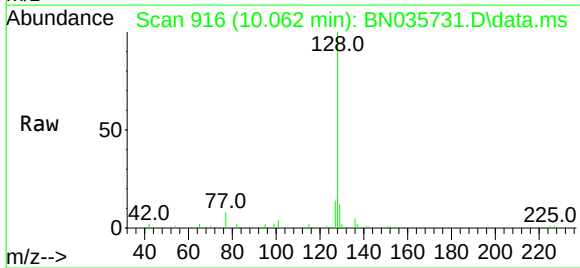
Tgt Ion: 82 Resp: 2398
Ion Ratio Lower Upper
82 100
128 43.8 33.4 50.0
54 41.4 36.7 55.1





#9
Naphthalene
Concen: 0.375 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



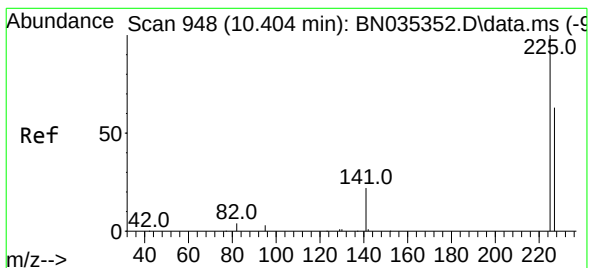
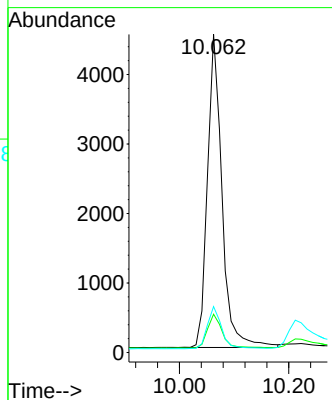
Tgt Ion:128 Resp: 8331
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.4 11.4 17.2

Manual Integrations
APPROVED

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

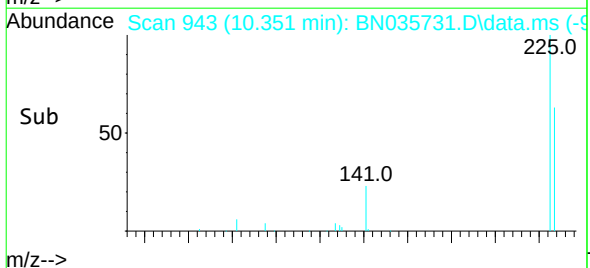
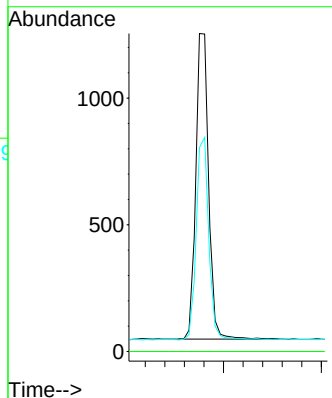
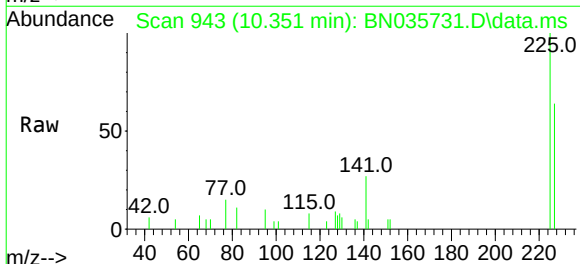
12/21/2024
Supervised By :mohammad
ahmed

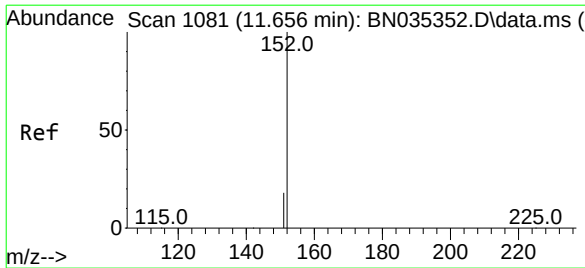
12/24/2024



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:225 Resp: 2194
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 51.3 76.9





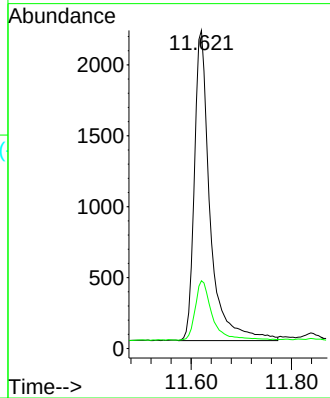
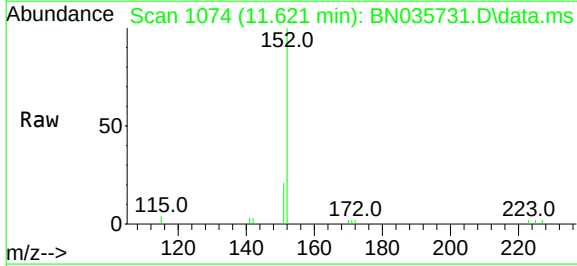
#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 11.621 min Scan# 1080
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4741
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0

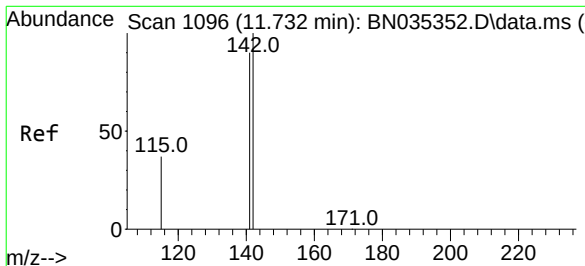
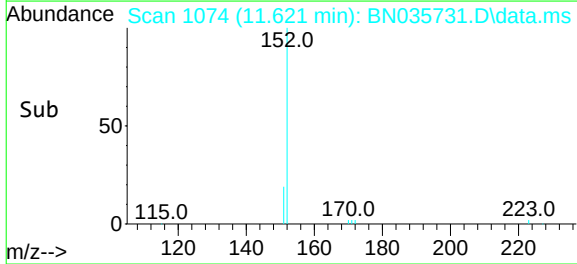
Manual Integrations
APPROVED

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



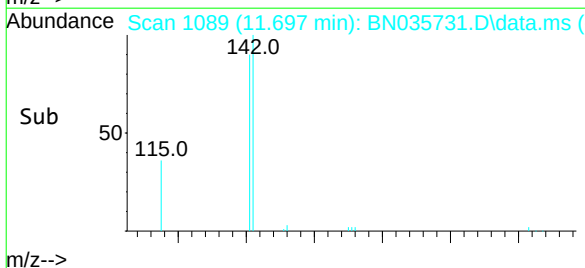
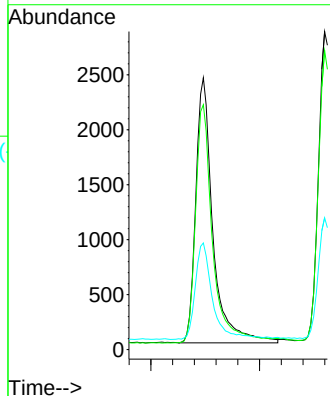
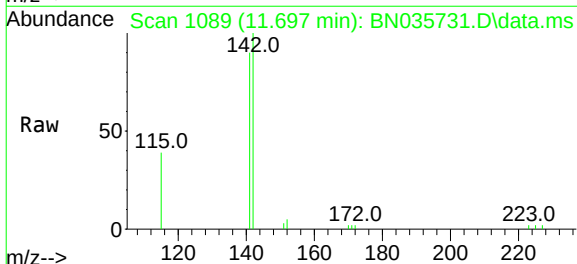
12/21/2024
Supervised By :mohammad
ahmed

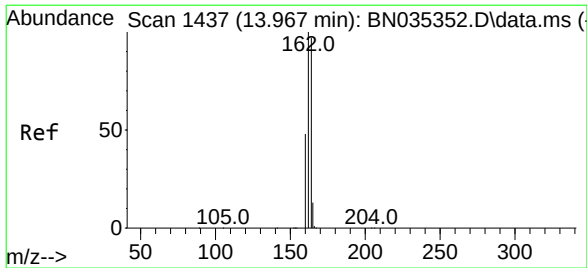
12/24/2024



#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:142 Resp: 5286
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 39.2 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt	Ion:164	Resp:	5341
Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	50.8	40.1	60.1

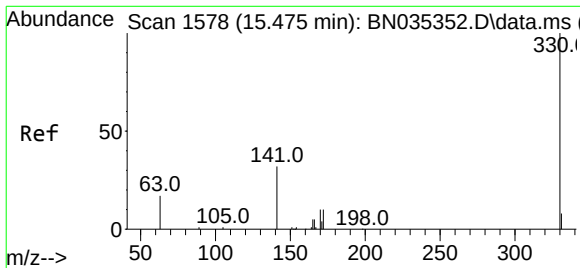
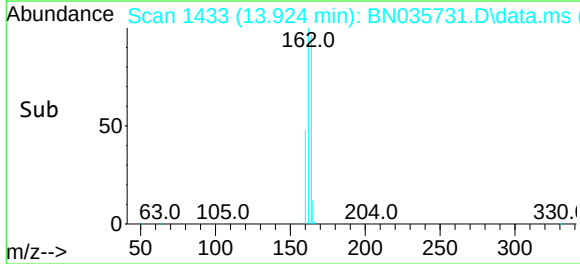
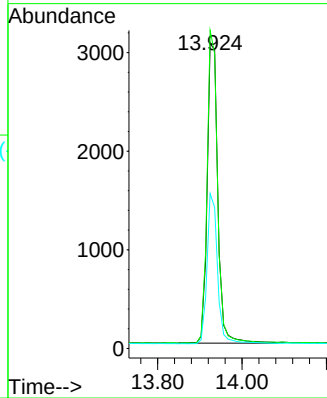
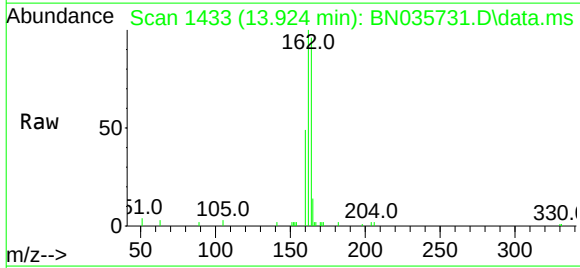
Manual Integrations
APPROVED

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

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#14

2,4,6-Tribromophenol

Concen: 0.311 ng

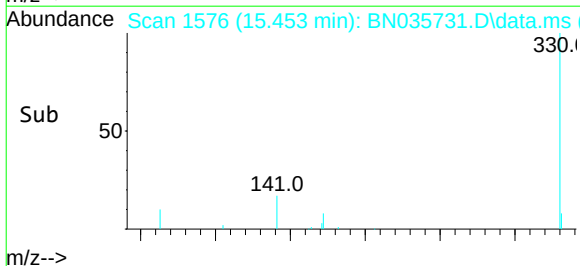
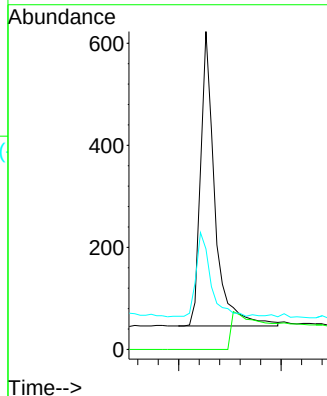
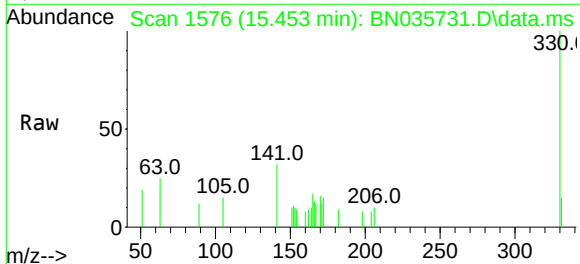
RT: 15.453 min Scan# 1576

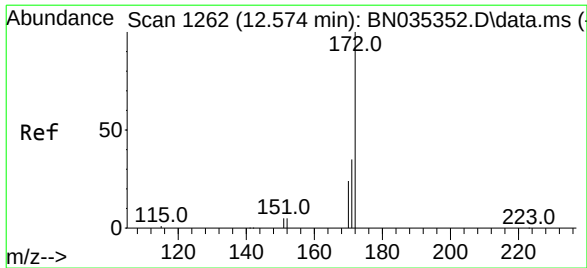
Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

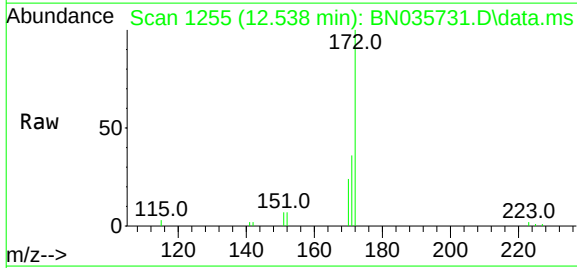
Tgt	Ion:330	Resp:	1180
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.6	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.538 min Scan# 1262
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



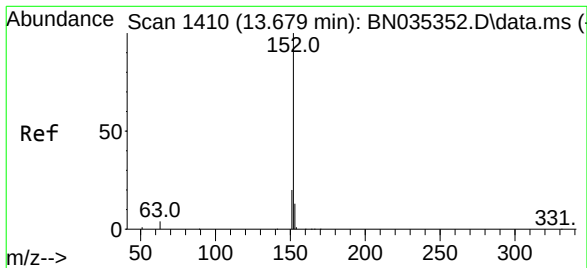
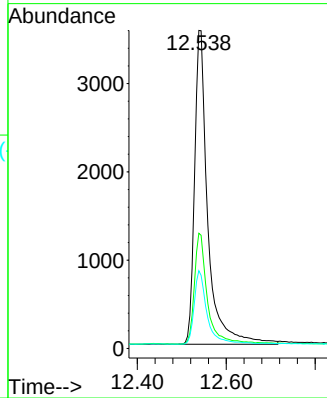
Tgt Ion:172 Resp: 7347
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.5 19.8 29.8

Manual Integrations
APPROVED

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

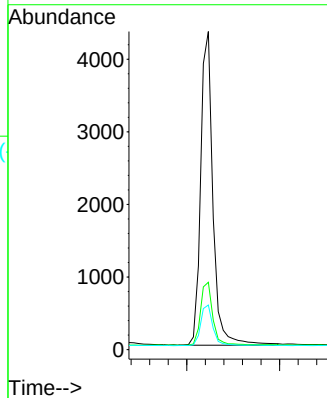
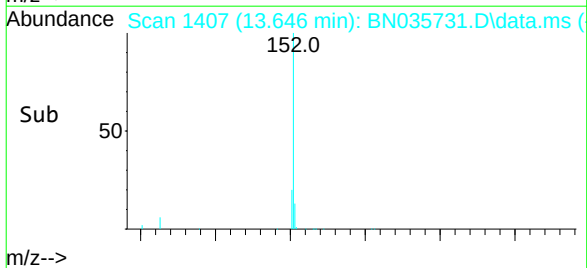
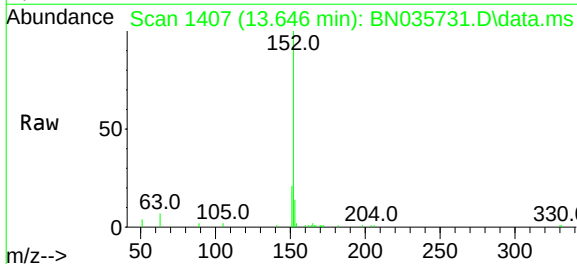
12/21/2024
Supervised By :mohammad
ahmed

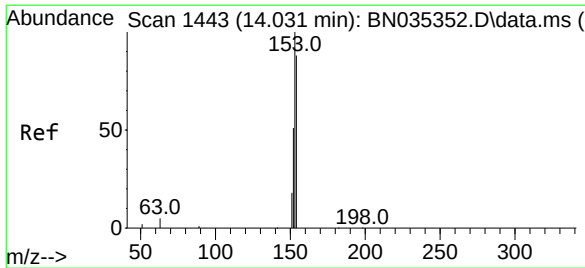
12/24/2024



#16
Acenaphthylene
Concen: 0.354 ng
RT: 13.646 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:152 Resp: 7931
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.2
153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 0.359 ng

RT: 13.989 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	59.2	49.0	73.6

Manual Integrations

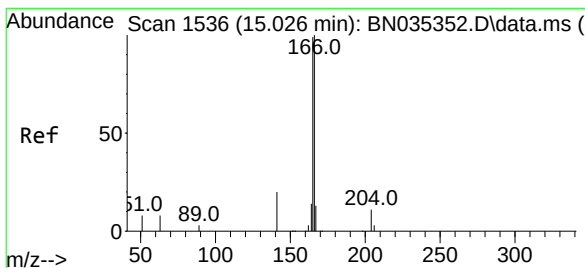
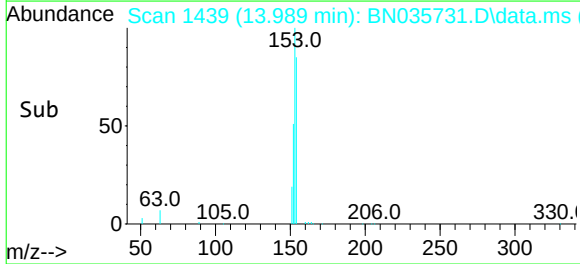
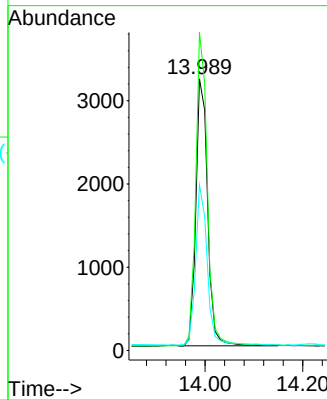
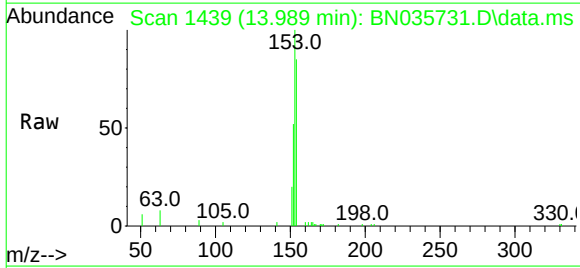
APPROVED

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

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#18

Fluorene

Concen: 0.329 ng

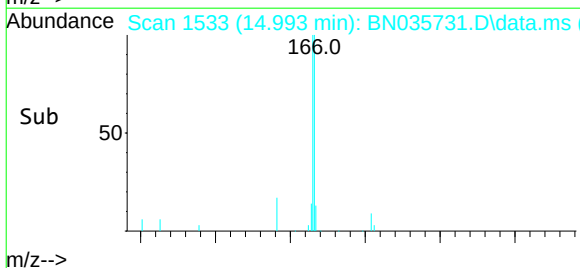
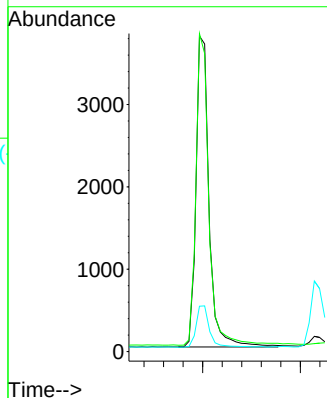
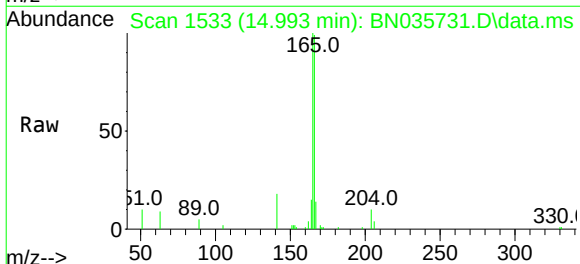
RT: 14.993 min Scan# 1533

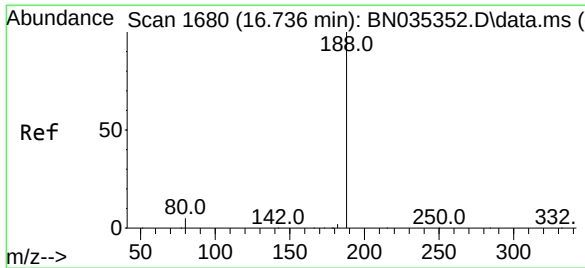
Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.7	119.5
167	13.7	10.8	16.2





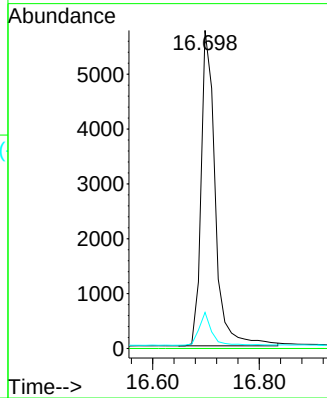
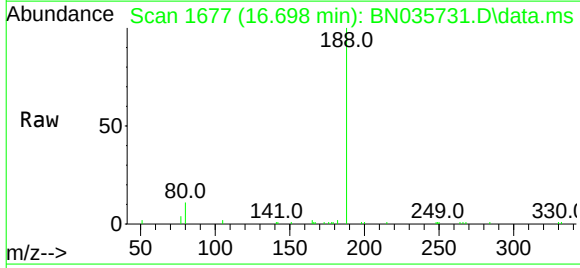
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8#

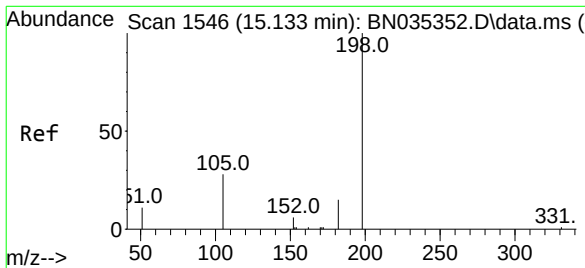
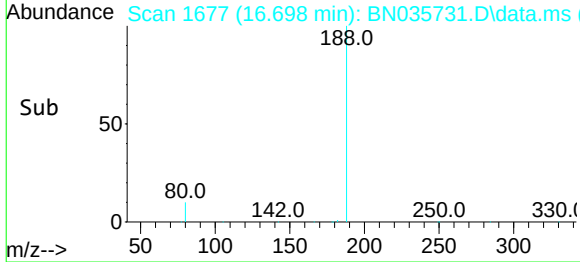
Manual Integrations
APPROVED

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



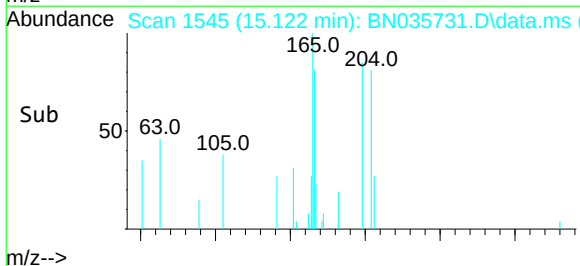
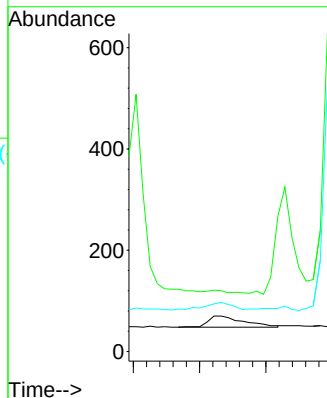
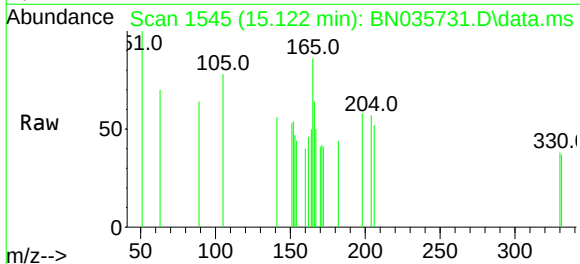
12/21/2024
Supervised By :mohammad
ahmed

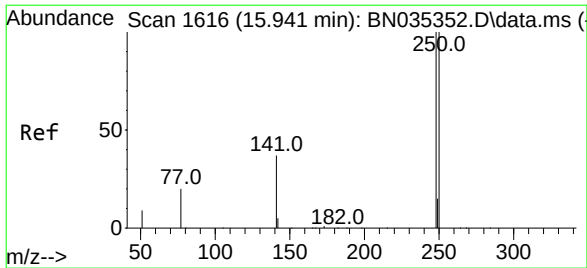
12/24/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.080 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion	Ratio	Lower	Upper
198	100		
51	172.9	46.5	69.7#
105	134.3	45.3	67.9#





#21

4-Bromophenyl-phenylether

Concen: 0.358 ng

RT: 15.904 min Scan# 1616

Delta R.T. -0.013 min

Lab File: BN035731.D

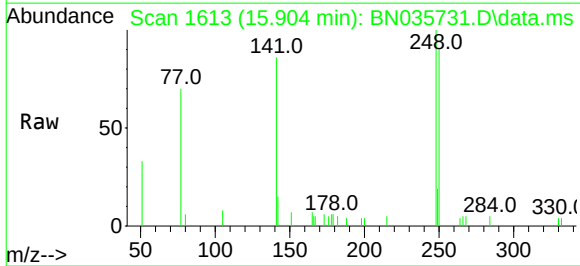
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:248 Resp: 2216

Ion Ratio Lower Upper

248 100

250 90.4 80.6 120.8

141 85.8 31.5 47.3#

Manual Integrations

APPROVED

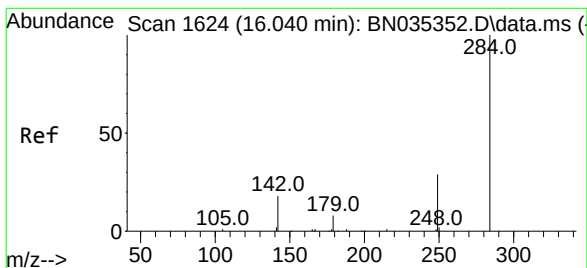
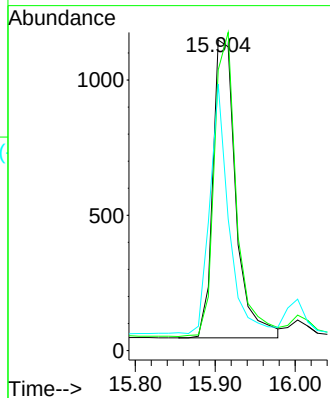
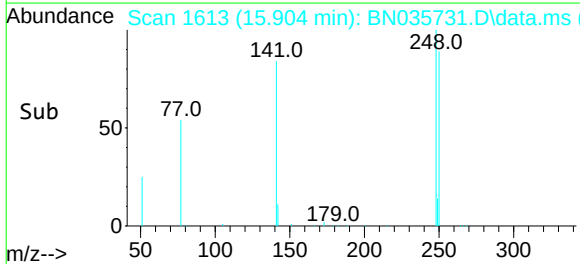
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#22

Hexachlorobenzene

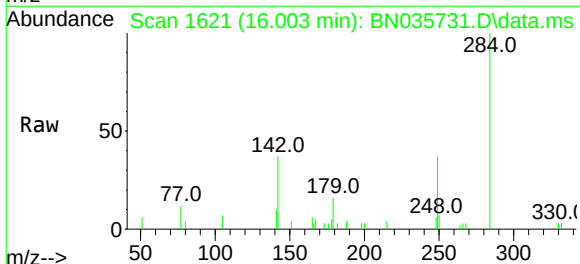
Concen: 0.438 ng

RT: 16.003 min Scan# 1621

Delta R.T. -0.013 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



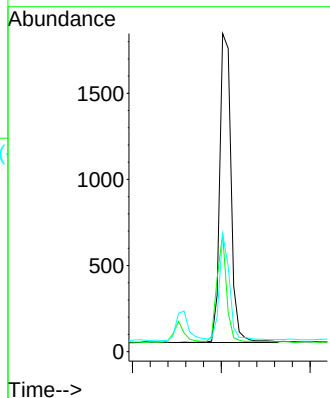
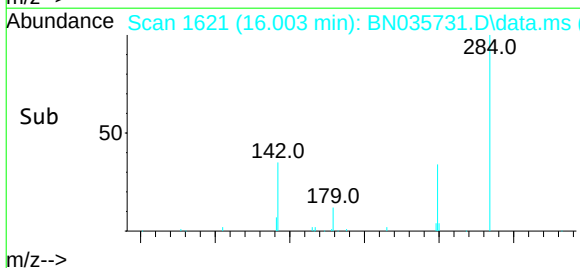
Tgt Ion:284 Resp: 3183

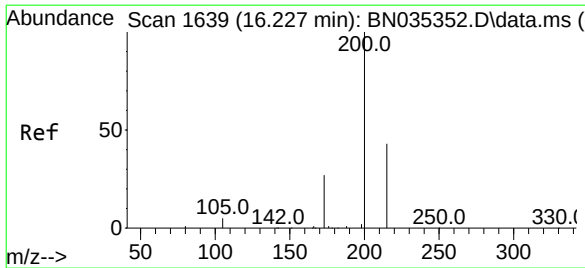
Ion Ratio Lower Upper

284 100

142 30.7 26.7 40.1

249 30.4 24.6 36.8





#23

Atrazine

Concen: 0.385 ng

RT: 16.202 min Scan# 16

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:200 Resp: 1696

Ion Ratio Lower Upper

200 100

173 30.6 24.1 36.1

215 48.3 36.9 55.3

Manual Integrations

APPROVED

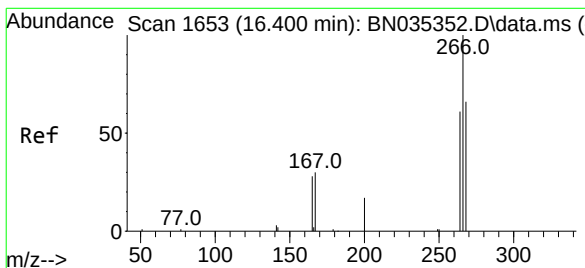
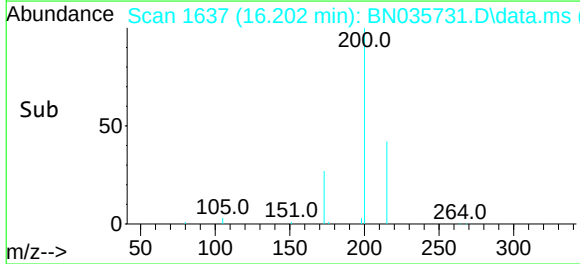
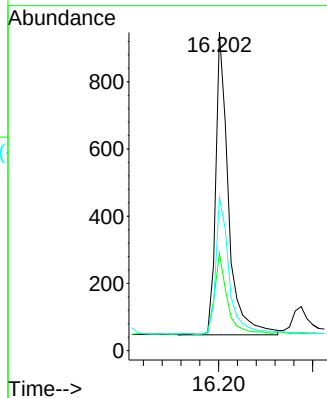
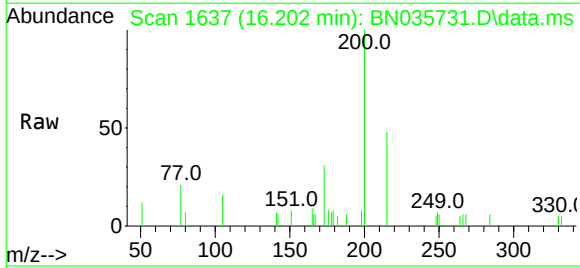
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#24

Pentachlorophenol

Concen: 0.350 ng

RT: 16.375 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

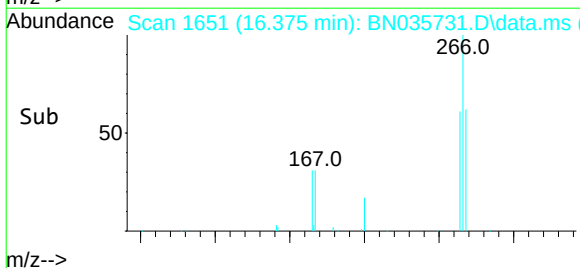
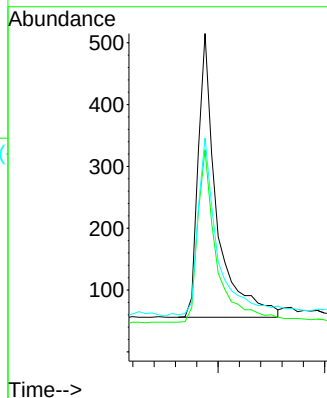
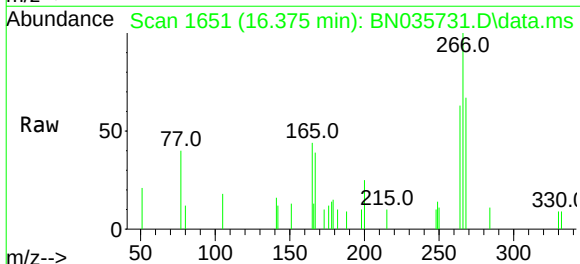
Tgt Ion:266 Resp: 1107

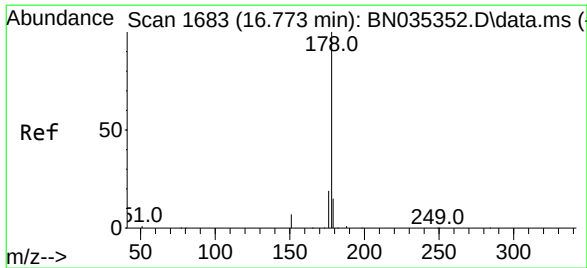
Ion Ratio Lower Upper

266 100

264 62.6 42.3 63.5

268 68.5 43.3 64.9#





#25

Phenanthrene

Concen: 0.351 ng

RT: 16.748 min Scan# 1681

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Tgt Ion:178 Resp: 10192

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.7 12.3 18.5

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

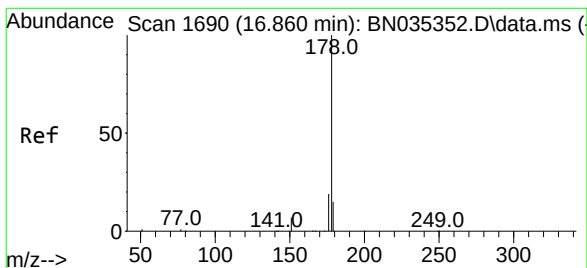
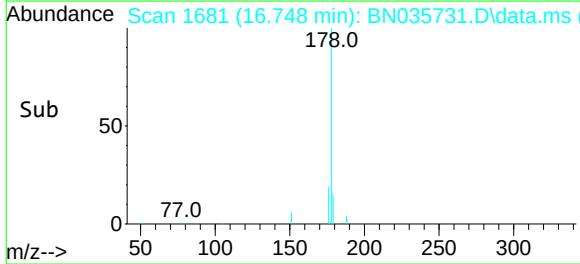
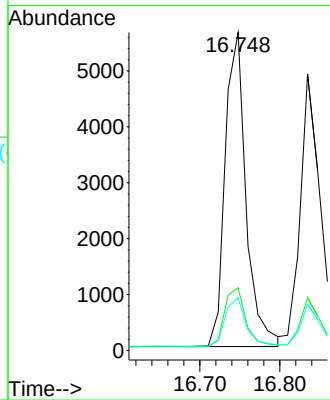
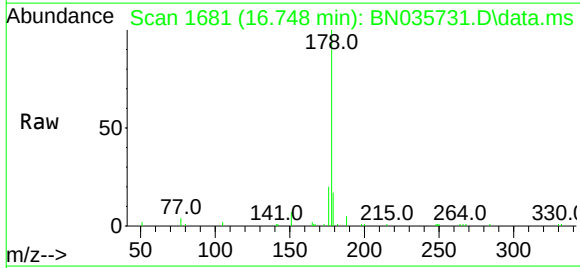
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#26

Anthracene

Concen: 0.346 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

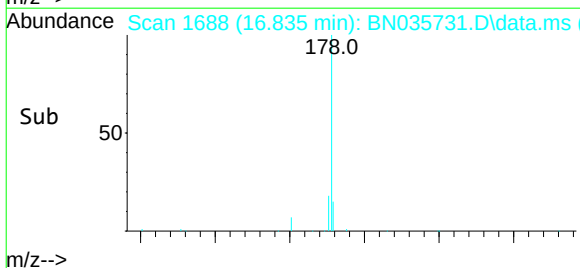
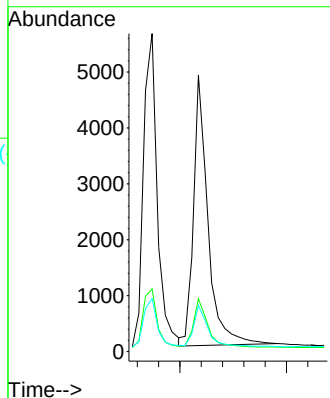
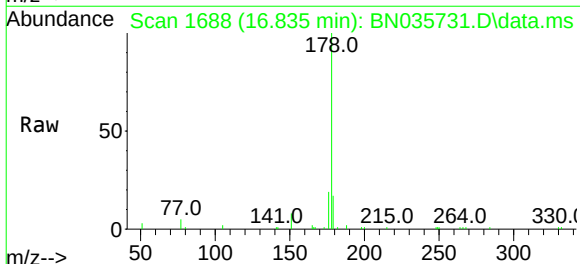
Tgt Ion:178 Resp: 9082

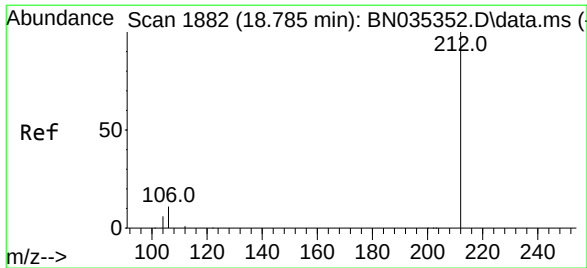
Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.6

179 15.6 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.347 ng

RT: 18.761 min Scan# 18

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:212 Resp: 10416

Ion Ratio Lower Upper

212 100

106 10.8 9.2 13.8

104 6.3 5.3 7.9

Manual Integrations

APPROVED

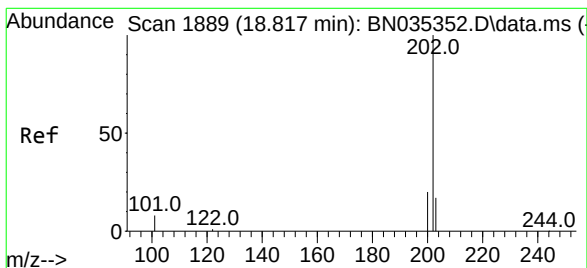
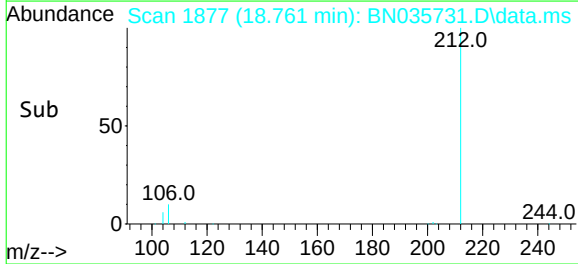
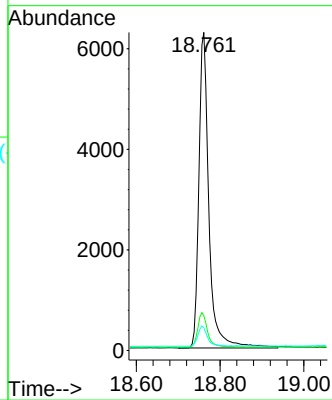
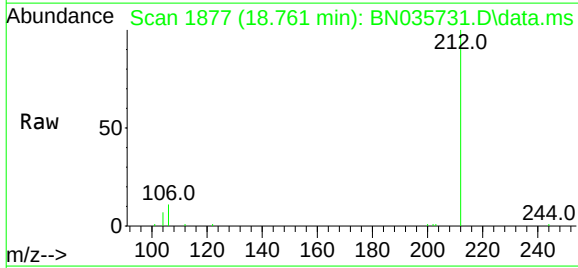
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#28

Fluoranthene

Concen: 0.324 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

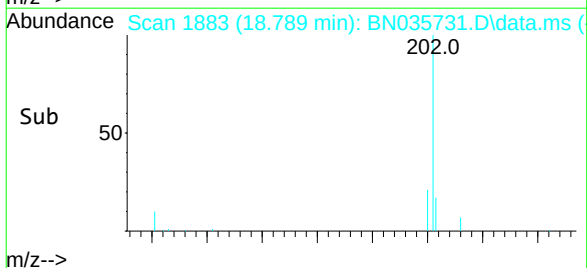
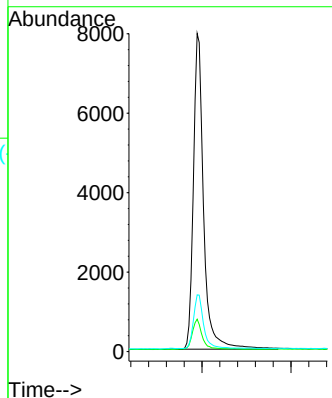
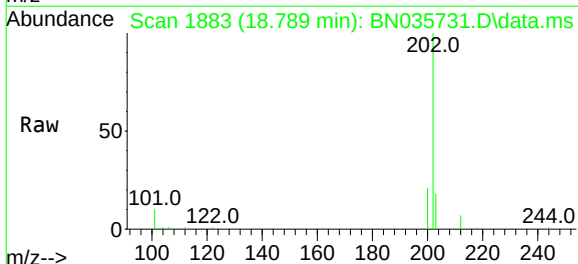
Tgt Ion:202 Resp: 12678

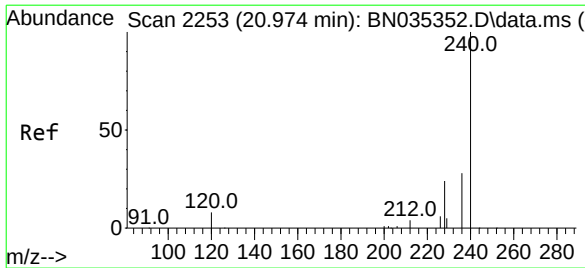
Ion Ratio Lower Upper

202 100

101 9.4 7.4 11.0

203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 22

Delta R.T. -0.000 min

Lab File: BN035731.D

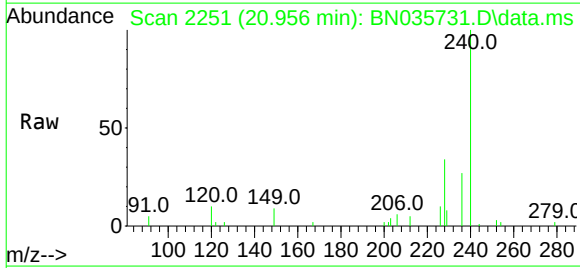
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt	Ion:	240	Resp:	8878
Ion	Ratio	Lower	Upper	
240	100			
120	9.6	7.9	11.9	
236	27.4	22.9	34.3	

Manual Integrations

APPROVED

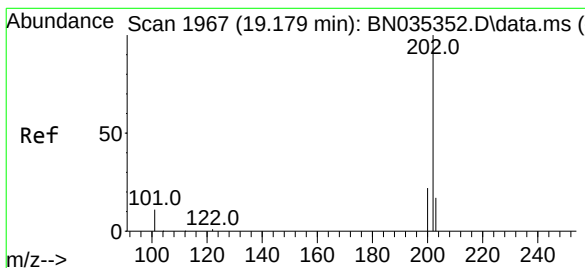
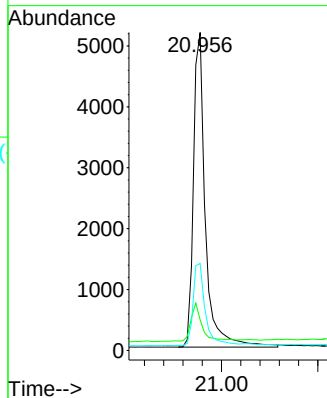
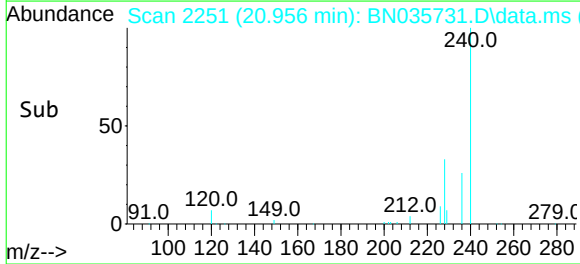
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#30

Pyrene

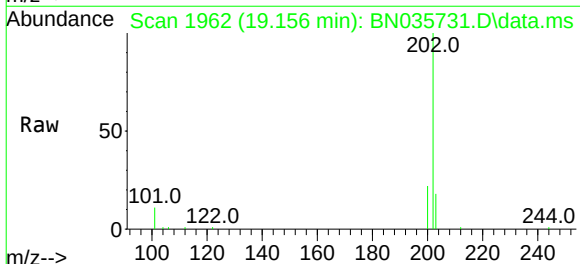
Concen: 0.399 ng

RT: 19.156 min Scan# 1962

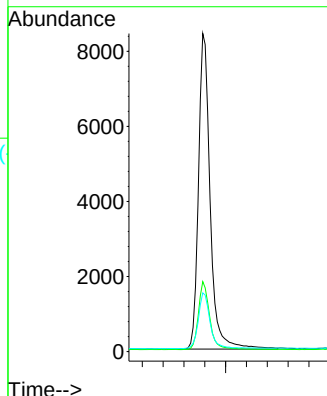
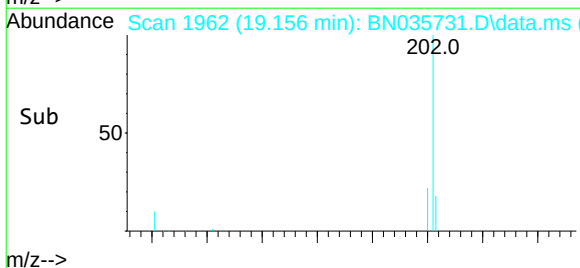
Delta R.T. -0.005 min

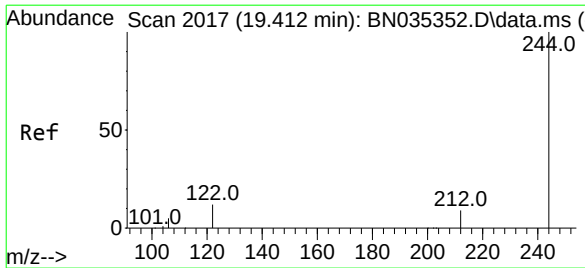
Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



Tgt	Ion:	202	Resp:	13069
Ion	Ratio	Lower	Upper	
202	100			
200	21.0	17.0	25.4	
203	17.8	14.3	21.5	





#31

Terphenyl-d14

Concen: 0.426 ng

RT: 19.388 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:244 Resp: 7453

Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.9 10.3 15.5

Manual Integrations

APPROVED

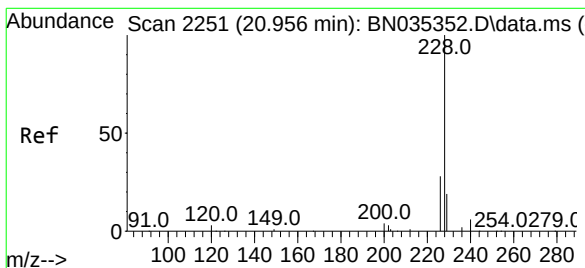
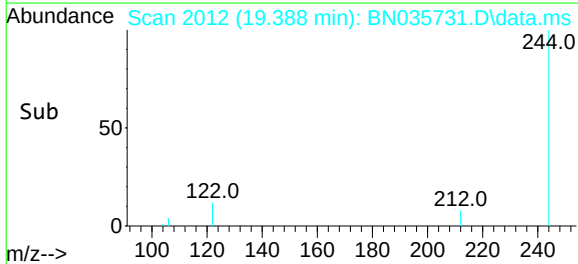
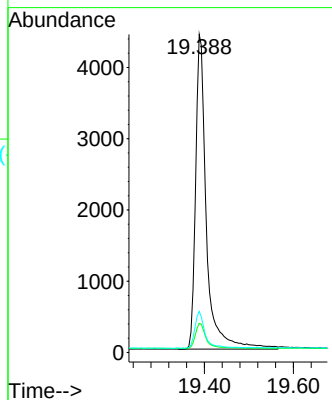
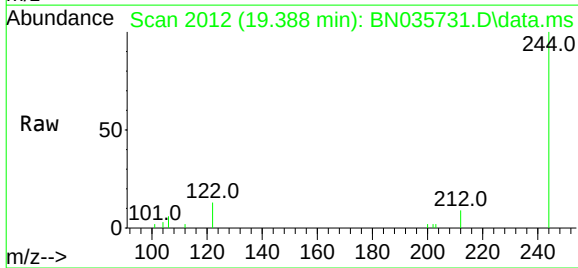
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#32

Benzo(a)anthracene

Concen: 0.339 ng

RT: 20.938 min Scan# 2249

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

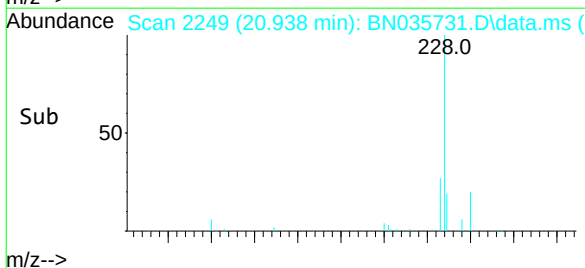
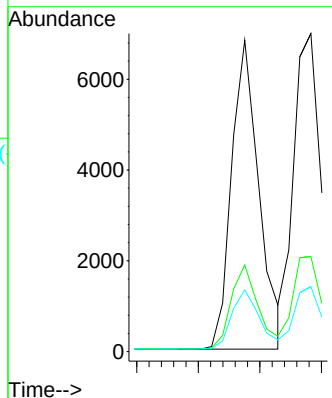
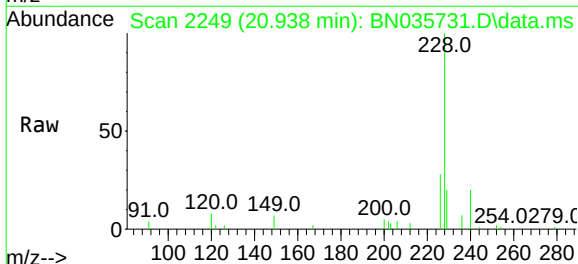
Tgt Ion:228 Resp: 10542

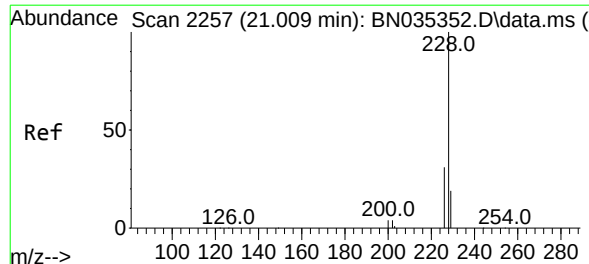
Ion Ratio Lower Upper

228 100

226 27.8 22.5 33.7

229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.389 ng

RT: 20.991 min Scan# 22

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Tgt Ion:228 Resp: 12448

Ion Ratio Lower Upper

228 100

226 29.9 24.6 37.0

229 20.4 15.9 23.9

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

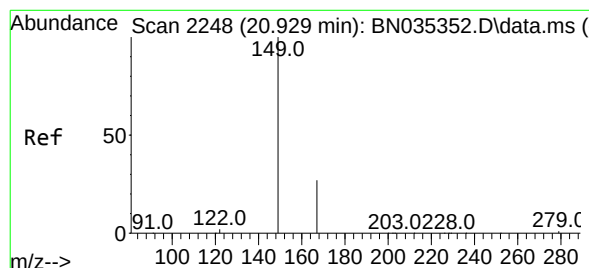
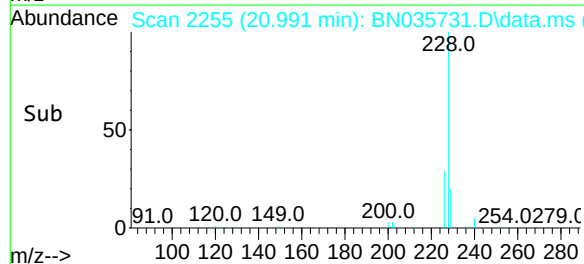
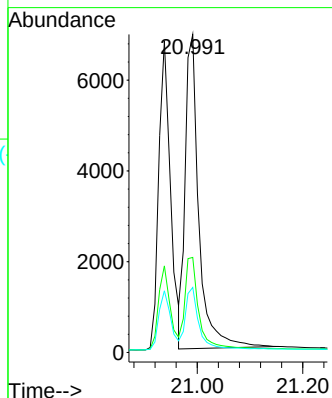
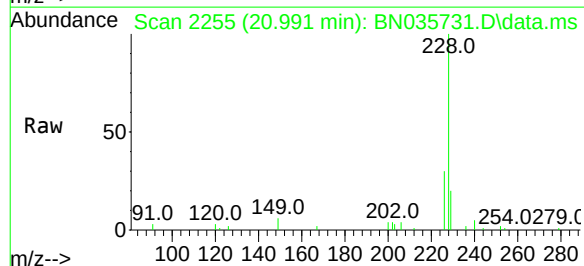
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.430 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

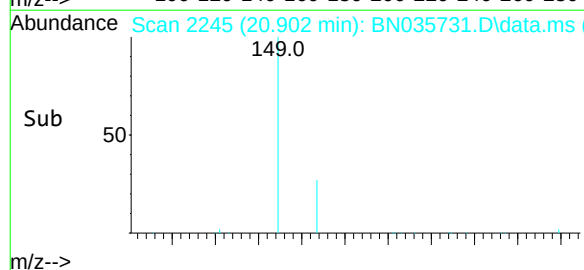
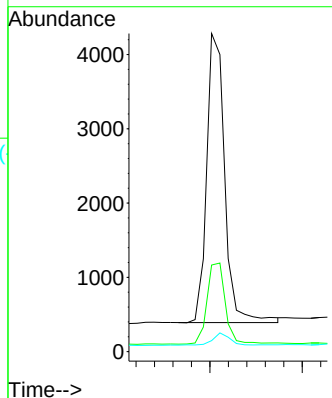
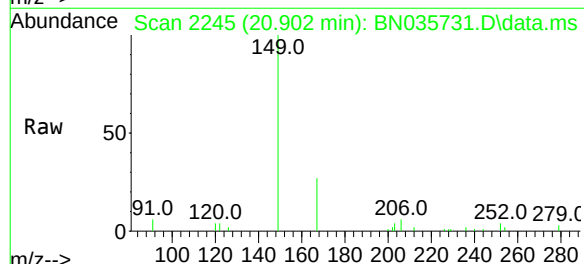
Tgt Ion:149 Resp: 5271

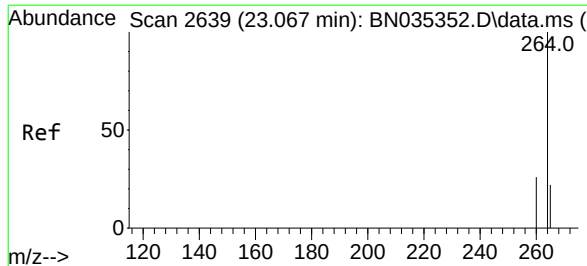
Ion Ratio Lower Upper

149 100

167 28.6 22.2 33.4

279 3.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2639

Delta R.T. -0.003 min

Lab File: BN035731.D

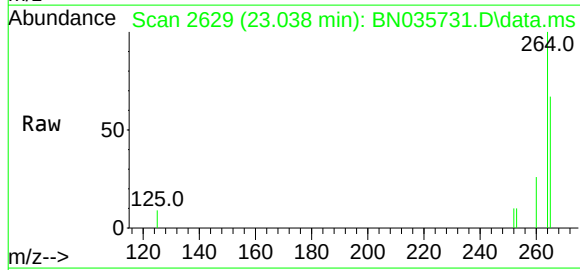
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 264 Resp: 9229

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

265 67.5 40.2 60.4#

Manual Integrations

APPROVED

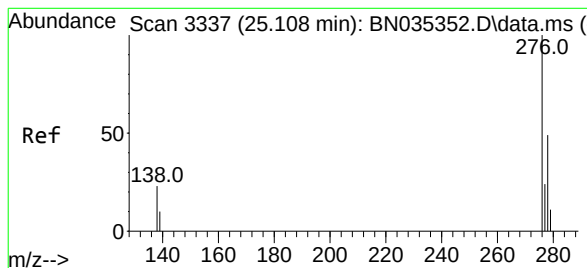
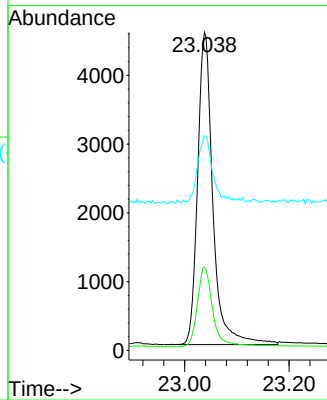
Reviewed By : Yogesh Patel 12/21/2024

Supervised By : mohammad ahmed 12/24/2024

12/21/2024

Supervised By : mohammad
ahmed

12/24/2024



#36

Indeno(1,2,3-cd)pyrene

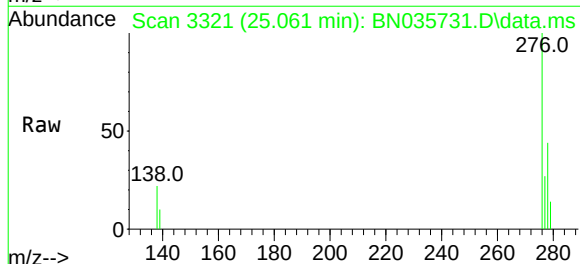
Concen: 0.376 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.006 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



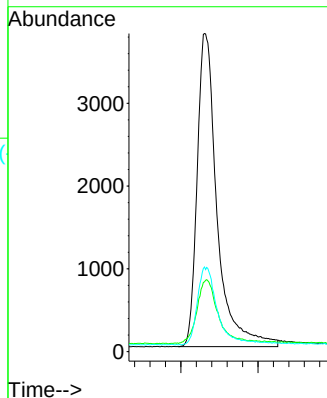
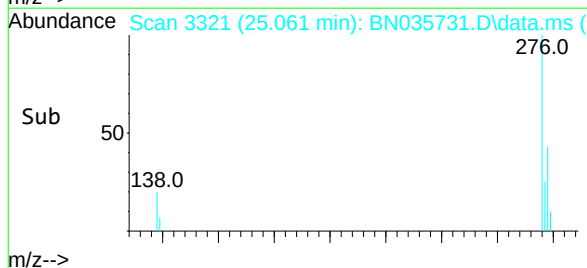
Tgt Ion: 276 Resp: 13578

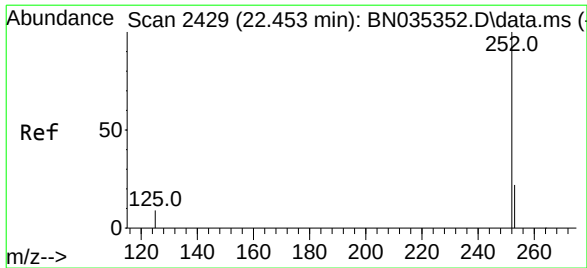
Ion Ratio Lower Upper

276 100

138 21.2 19.4 29.0

277 24.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.438 ng

RT: 22.427 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035731.D

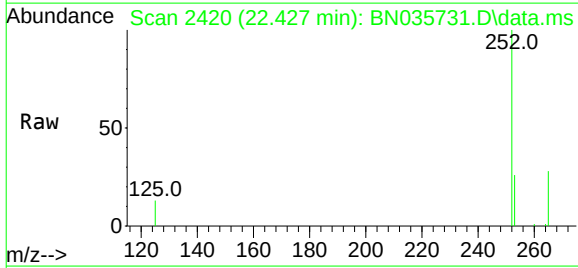
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 14777

Ion Ratio Lower Upper

252 100

253 25.9 19.6 29.4

125 13.1 9.6 14.4

Manual Integrations

APPROVED

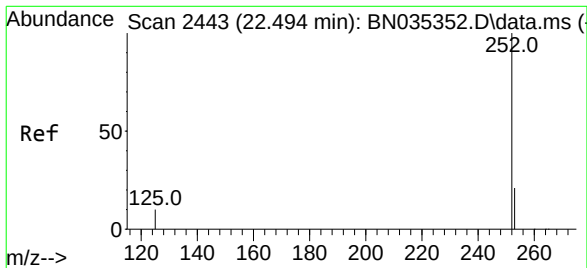
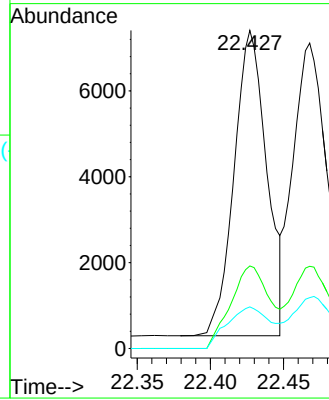
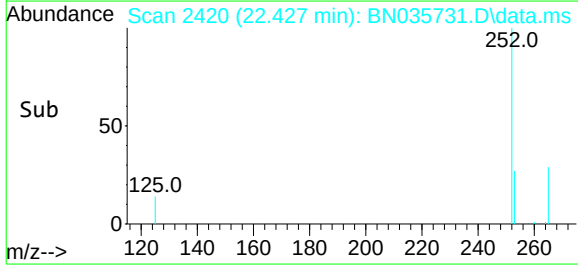
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#38

Benzo(k)fluoranthene

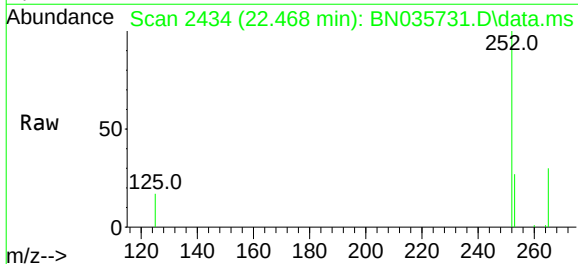
Concen: 0.370 ng m

RT: 22.468 min Scan# 2434

Delta R.T. -0.003 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



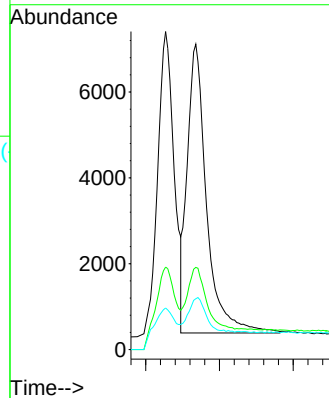
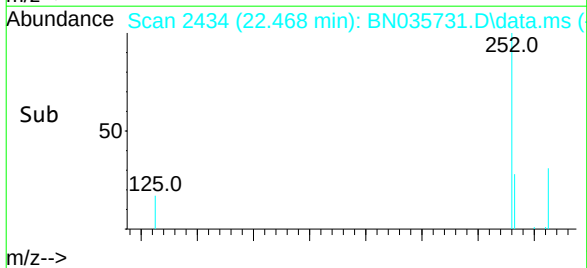
Tgt Ion:252 Resp: 12300

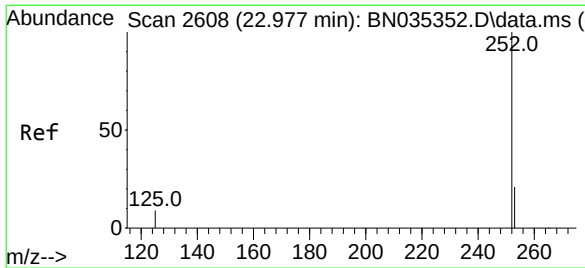
Ion Ratio Lower Upper

252 100

253 26.9 19.5 29.3

125 16.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 22.947 min Scan# 25

Delta R.T. -0.003 min

Lab File: BN035731.D

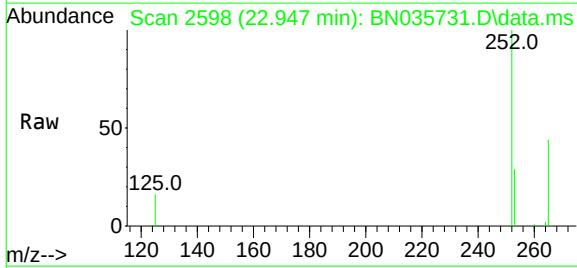
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 10146

Ion Ratio Lower Upper

252 100

253 29.2 20.2 30.4

125 16.5 10.9 16.3#

Manual Integrations

APPROVED

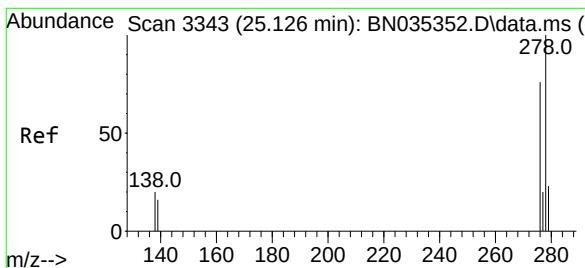
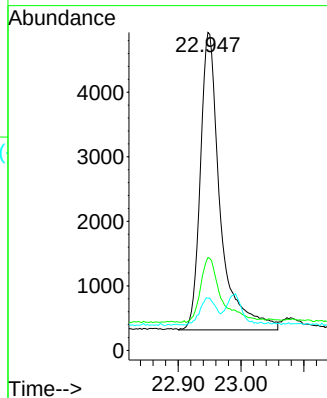
Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

12/21/2024

Supervised By :mohammad
ahmed

12/24/2024



#40

Dibenzo(a,h)anthracene

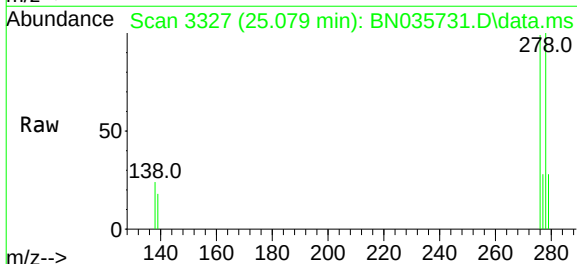
Concen: 0.370 ng

RT: 25.079 min Scan# 3327

Delta R.T. -0.003 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



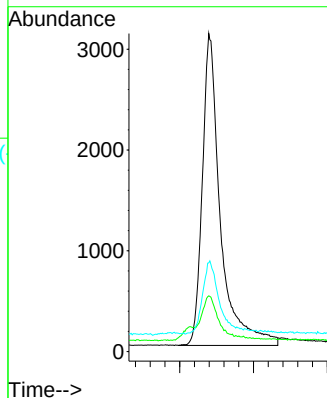
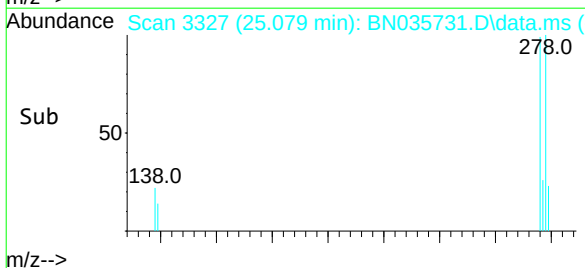
Tgt Ion:278 Resp: 10523

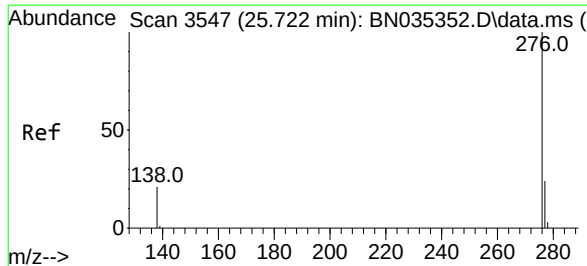
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

279 27.9 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.400 ng

RT: 25.672 min Scan# 35

Delta R.T. -0.006 min

Lab File: BN035731.D

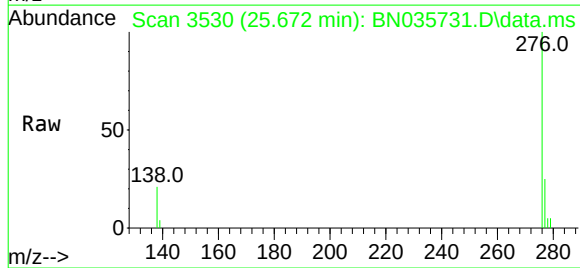
Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 276 Resp: 11906

Ion Ratio Lower Upper

276 100

277 25.3 19.9 29.9

138 20.7 17.8 26.8

Manual Integrations

APPROVED

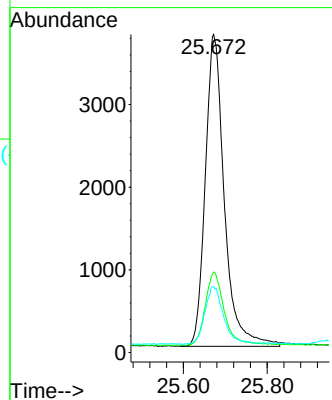
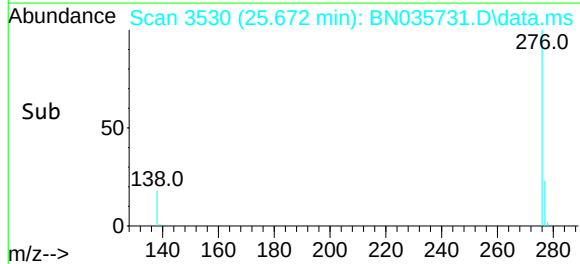
Reviewed By : Yogesh Patel 12/21/2024

Supervised By : mohammad ahmed 12/24/2024

12/21/2024

Supervised By : mohammad
ahmed

12/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035731.D
 Acq On : 20 Dec 2024 08:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158#	0.00
2	1,4-Dioxane	0.382	0.405	-6.0	170#	0.00
3	n-Nitrosodimethylamine	0.319	0.330	-3.4	160#	0.00
4 S	2-Fluorophenol	1.001	0.990	1.1	154#	0.00
5 S	Phenol-d6	1.204	1.140	5.3	151#	0.00
6	bis(2-Chloroethyl)ether	1.012	0.922	8.9	147	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	161#	0.00
8 S	Nitrobenzene-d5	0.244	0.284	-16.4	195#	0.00
9	Naphthalene	1.055	0.988	6.4	152#	0.00
10	Hexachlorobutadiene	0.243	0.260	-7.0	170#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.562	10.2	146	0.00
12	2-Methylnaphthalene	0.755	0.627	17.0	137	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.221	22.2	121	0.00
15 S	2-Fluorobiphenyl	1.512	1.376	9.0	128	0.00
16	Acenaphthylene	1.680	1.485	11.6	131	0.00
17	Acenaphthene	1.115	1.001	10.2	130	-0.01
18	Fluorene	1.596	1.311	17.9	119	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.008	79.5#	25#	0.00
21	4-Bromophenyl-phenylether	0.234	0.210	10.3	103	-0.01
22	Hexachlorobenzene	0.275	0.301	-9.5	123	-0.01
23	Atrazine	0.167	0.160	4.2	116	0.00
24	Pentachlorophenol	0.120	0.105	12.5	122	0.00
25	Phenanthrene	1.099	0.964	12.3	101	0.00
26	Anthracene	0.994	0.859	13.6	102	0.00
27 SURR	Fluoranthene-d10	1.134	0.985	13.1	102	0.00
28	Fluoranthene	1.481	1.199	19.0	94	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.477	1.472	0.3	93	0.00
31 S	Terphenyl-d14	0.789	0.839	-6.3	99	0.00
32	Benzo(a)anthracene	1.399	1.187	15.2	82	0.00
33	Chrysene	1.443	1.402	2.8	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.594	-7.4	107	0.00
35 I	Perylene-d12	1.000	1.000	0.0	85	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.471	5.9	82	0.00
37	Benzo(b)fluoranthene	1.463	1.601	-9.4	104	0.00
38	Benzo(k)fluoranthene	1.440	1.333	7.4	81	0.00
39 C	Benzo(a)pyrene	1.205	1.099	8.8	82	0.00
40	Dibenzo(a,h)anthracene	1.234	1.140	7.6	81	0.00
41	Benzo(g,h,i)perylene	1.289	1.290	-0.1	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035731.D
 Acq On : 20 Dec 2024 08:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	158	0.00
2	1,4-Dioxane	0.400	0.424	-6.0	170	0.00
3	n-Nitrosodimethylamine	0.400	0.415	-3.7	160	0.00
4 S	2-Fluorophenol	0.400	0.396	1.0	154	0.00
5 S	Phenol-d6	0.400	0.379	5.3	151	0.00
6	bis(2-Chloroethyl)ether	0.400	0.365	8.8	147	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	161	0.00
8 S	Nitrobenzene-d5	0.400	0.466	-16.5	195	0.00
9	Naphthalene	0.400	0.375	6.3	152	0.00
10	Hexachlorobutadiene	0.400	0.428	-7.0	170	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.359	10.3	146	0.00
12	2-Methylnaphthalene	0.400	0.332	17.0	137	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.311	22.3	121	0.00
15 S	2-Fluorobiphenyl	0.400	0.364	9.0	128	0.00
16	Acenaphthylene	0.400	0.354	11.5	131	0.00
17	Acenaphthene	0.400	0.359	10.3	130	-0.01
18	Fluorene	0.400	0.329	17.8	119	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.080	80.0#	25	0.00
21	4-Bromophenyl-phenylether	0.400	0.358	10.5	103	-0.01
22	Hexachlorobenzene	0.400	0.438	-9.5	123	-0.01
23	Atrazine	0.400	0.385	3.8	116	0.00
24	Pentachlorophenol	0.400	0.350	12.5	122	0.00
25	Phenanthrene	0.400	0.351	12.3	101	0.00
26	Anthracene	0.400	0.346	13.5	102	0.00
27 SURR	Fluoranthene-d10	0.400	0.347	13.3	102	0.00
28	Fluoranthene	0.400	0.324	19.0	94	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.399	0.3	93	0.00
31 S	Terphenyl-d14	0.400	0.426	-6.5	99	0.00
32	Benzo(a)anthracene	0.400	0.339	15.3	82	0.00
33	Chrysene	0.400	0.389	2.8	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.430	-7.5	107	0.00
35 I	Perylene-d12	0.400	0.400	0.0	85	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	82	0.00
37	Benzo(b)fluoranthene	0.400	0.438	-9.5	104	0.00
38	Benzo(k)fluoranthene	0.400	0.370	7.5	81	0.00
39 C	Benzo(a)pyrene	0.400	0.365	8.8	82	0.00
40	Dibenzo(a,h)anthracene	0.400	0.370	7.5	81	0.00
41	Benzo(g,h,i)perylene	0.400	0.400	0.0	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG No.: P5282

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 18:18

Lab File ID: BN035747.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.618		-1.3	50.0
Fluoranthene-d10	1.134	1.034		-8.8	50.0
2-Fluorophenol	1.001	0.002		-99.8	50.0
Phenol-d6	1.204	0.025		-97.9	50.0
Nitrobenzene-d5	0.244	0.005		-98.0	50.0
2-Fluorobiphenyl	1.512	0.002		-99.9	50.0
2,4,6-Tribromophenol	0.284	0.001		-99.6	50.0
Terphenyl-d14	0.789	0.003		-99.6	50.0
1,4-Dioxane	0.382	0.448		17.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035747.D
 Acq On : 20 Dec 2024 18:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:42:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	4145	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11402	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	7019	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	13951	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	11878	0.400	ng	0.00
35) Perylene-d12	23.038	264	12200	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	10	0.001	ng	-0.01
5) Phenol-d6	6.484	99	102	0.008	ng	0.00
8) Nitrobenzene-d5	8.408	82	53m	0.008	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	7049	0.395	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	9	0.002	ng	-0.01
15) 2-Fluorobiphenyl	12.544	172	12	0.000	ng	0.00
27) Fluoranthene-d10	18.757	212	14421	0.365	ng	0.00
31) Terphenyl-d14	19.393	244	35	0.001	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1859	0.469	ng	99
3) n-Nitrosodimethylamine	3.234	42	56	0.017	ng	# 1
6) bis(2-Chloroethyl)ether	6.723	93	4332	0.413	ng	98
9) Naphthalene	10.063	128	12423	0.413	ng	99
10) Hexachlorobutadiene	10.351	225	3142	0.453	ng	# 99
12) 2-Methylnaphthalene	11.692	142	8345	0.388	ng	99
16) Acenaphthylene	13.636	152	11936	0.405	ng	100
17) Acenaphthene	13.989	154	8162	0.417	ng	98
18) Fluorene	14.993	166	10307	0.368	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	168	0.122	ng	# 3
21) 4-Bromophenyl-phenylether	15.904	248	3188	0.391	ng	# 83
22) Hexachlorobenzene	16.003	284	4408	0.460	ng	97
23) Atrazine	16.202	200	27	0.005	ng	# 1
24) Pentachlorophenol	16.376	266	1329	0.319	ng	86
25) Phenanthrene	16.735	178	15452	0.403	ng	100
26) Anthracene	16.835	178	14156	0.408	ng	99
28) Fluoranthene	18.789	202	18255	0.353	ng	100
30) Pyrene	19.156	202	19874	0.453	ng	100
32) Benzo(a)anthracene	20.938	228	16354	0.394	ng	99
33) Chrysene	20.991	228	18340	0.428	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7490	0.456	ng	98
36) Indeno(1,2,3-cd)pyrene	25.061	276	21102	0.442	ng	99
37) Benzo(b)fluoranthene	22.427	252	21982	0.493	ng	99
38) Benzo(k)fluoranthene	22.468	252	19139m	0.436	ng	
39) Benzo(a)pyrene	22.947	252	15636	0.425	ng	98
40) Dibenzo(a,h)anthracene	25.082	278	15847	0.421	ng	98
41) Benzo(g,h,i)perylene	25.675	276	16995	0.432	ng	98

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

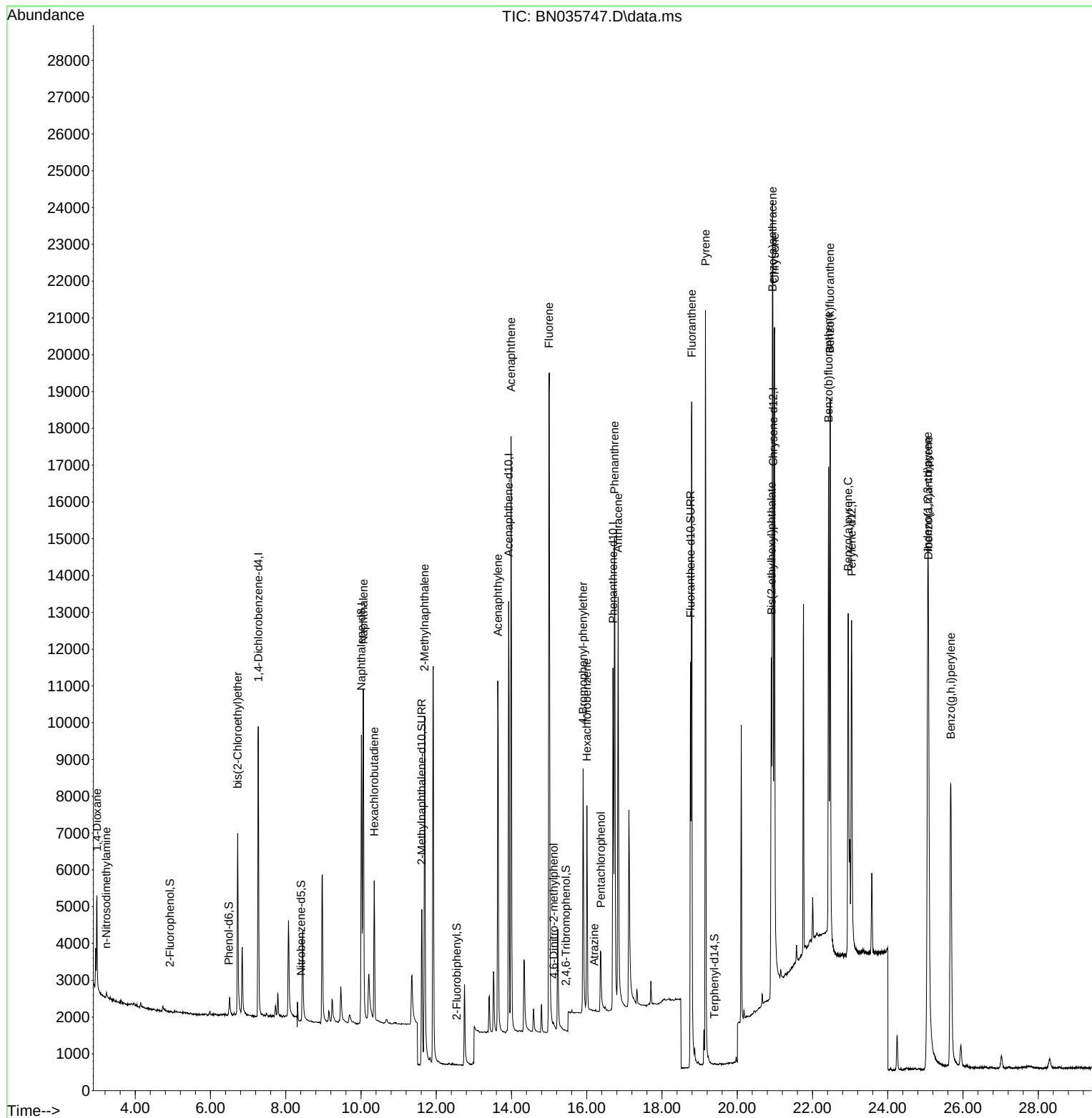
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035747.D
 Acq On : 20 Dec 2024 18:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

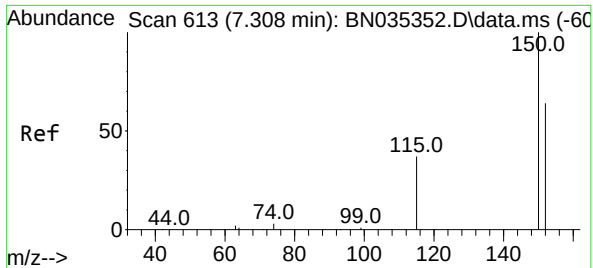
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:42:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





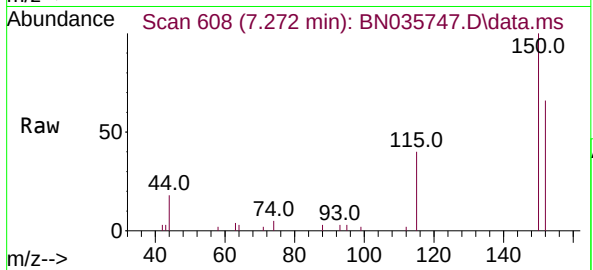
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 60
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

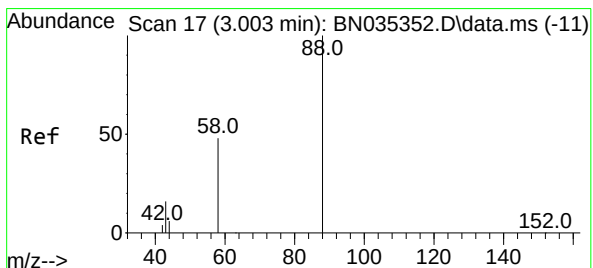
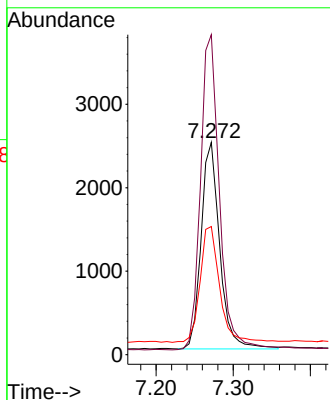
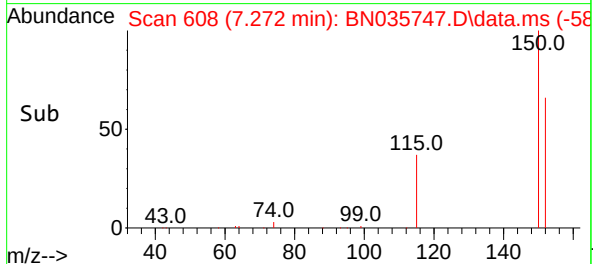


Tgt Ion: 152 Resp: 414
Ion Ratio Lower Upper
152 100
150 150.8 124.0 186.0
115 60.4 49.6 74.4

Manual Integrations

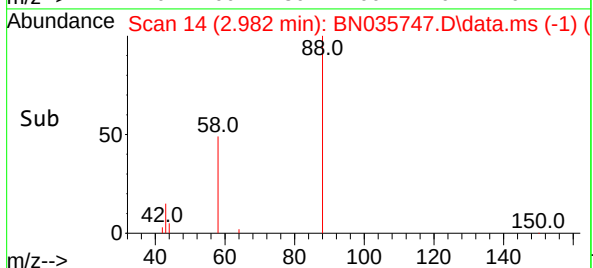
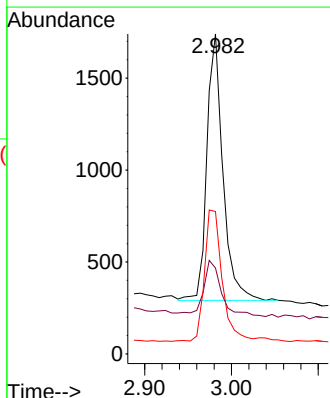
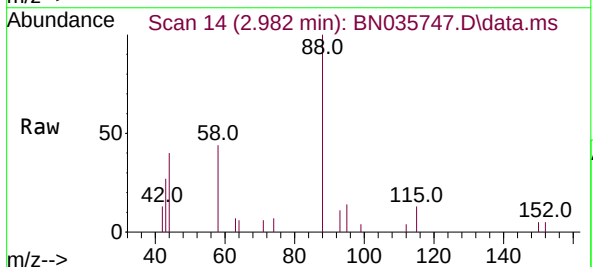
APPROVED

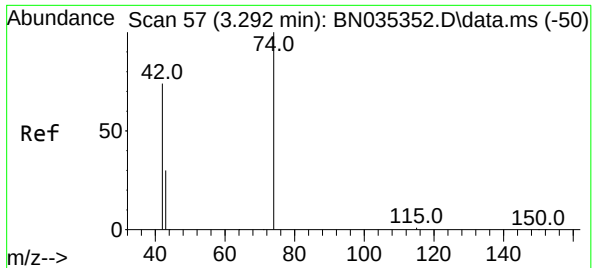
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#2
1,4-Dioxane
Concen: 0.469 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 88 Resp: 1859
Ion Ratio Lower Upper
88 100
43 23.8 17.2 25.8
58 55.6 44.5 66.7





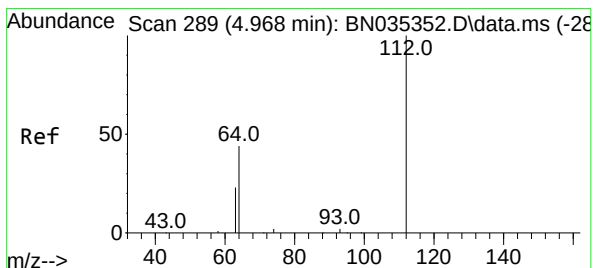
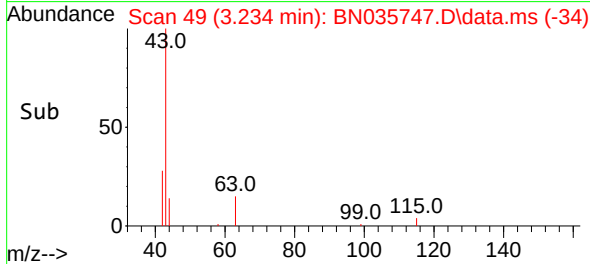
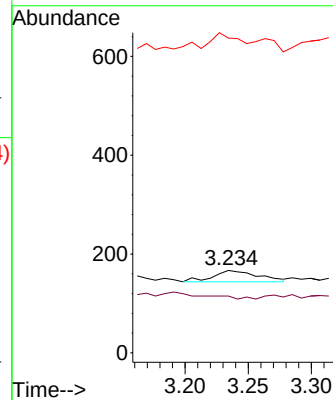
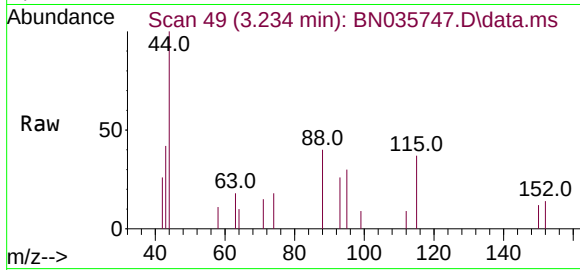
#3
n-Nitrosodimethylamine
Concen: 0.017 ng
RT: 3.234 min Scan# 49
Delta R.T. -0.044 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 50
Ion Ratio Lower Upper
42 100
74 0.0 124.9 187.3#
44 94.6 2.2 3.4#

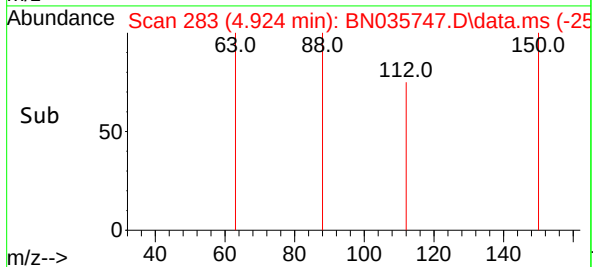
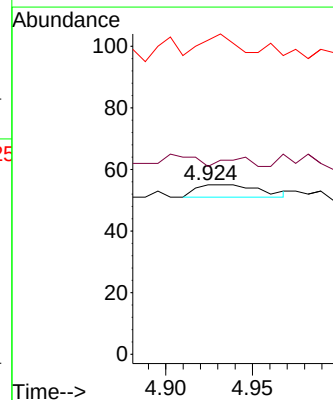
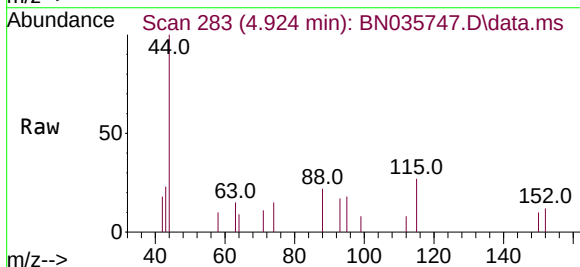
Manual Integrations
APPROVED

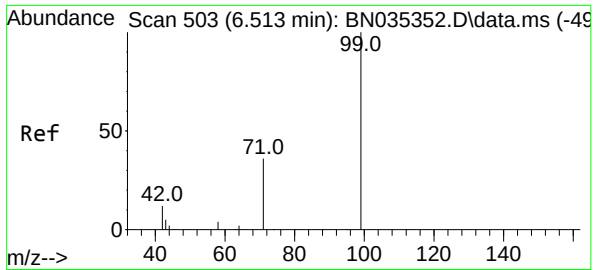
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#4
2-Fluorophenol
Concen: 0.001 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

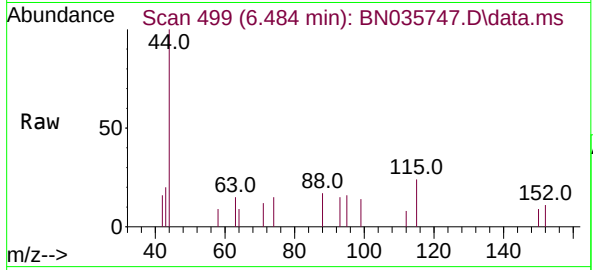
Tgt Ion:112 Resp: 10
Ion Ratio Lower Upper
112 100
64 0.0 39.8 59.8#
63 140.0 21.0 31.6#





#5
Phenol-d6
Concen: 0.008 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

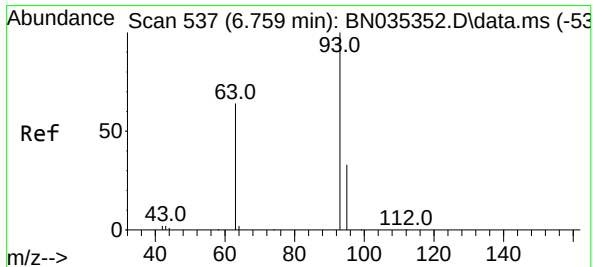
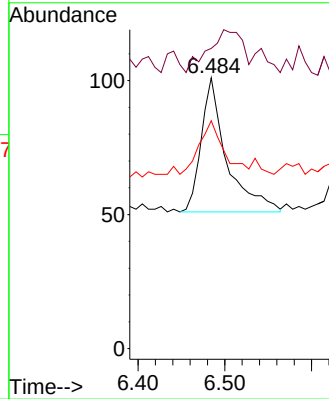
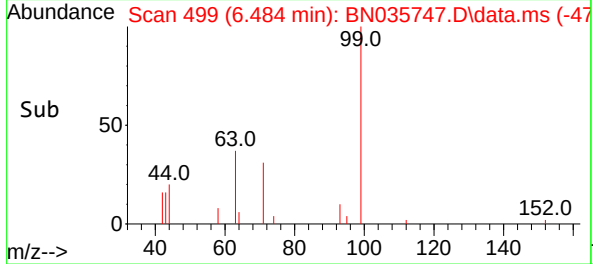
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 102
Ion Ratio Lower Upper
99 100
42 42.2 11.4 17.2
71 39.2 29.3 43.9

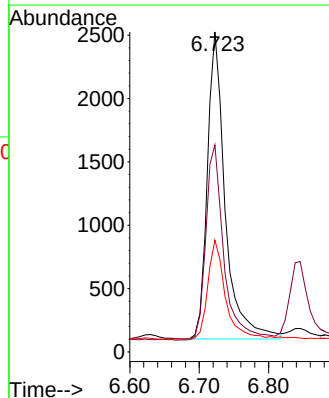
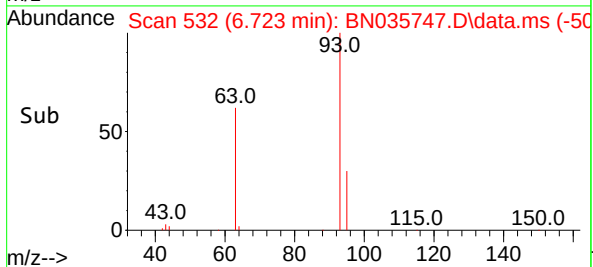
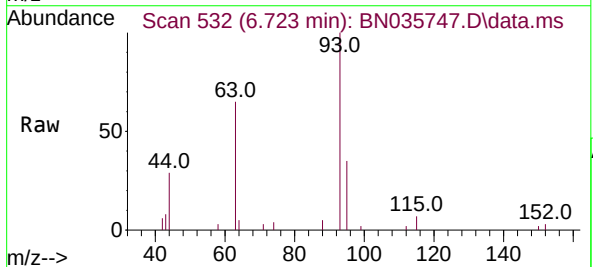
Manual Integrations
APPROVED

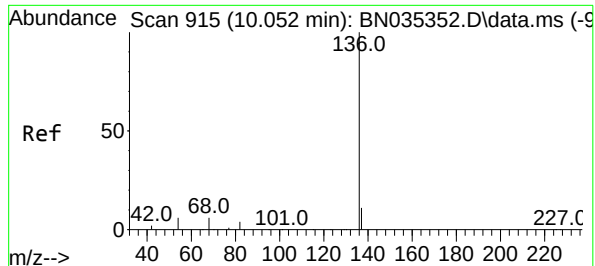
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.413 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 93 Resp: 4332
Ion Ratio Lower Upper
93 100
63 64.4 50.4 75.6
95 33.6 25.7 38.5





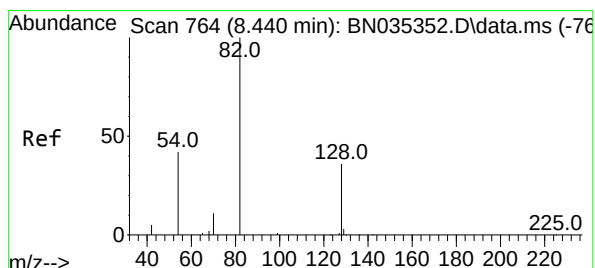
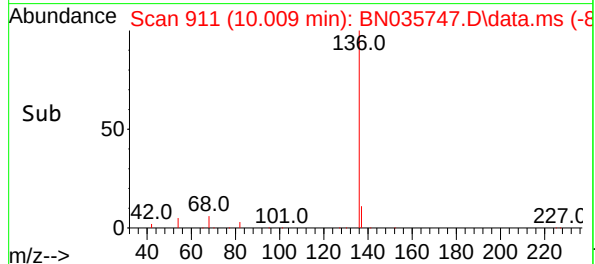
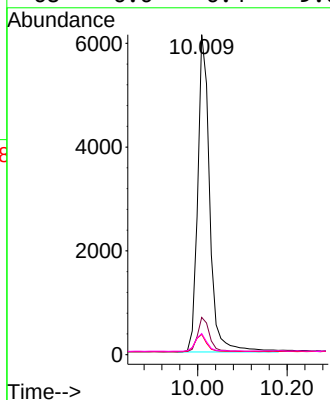
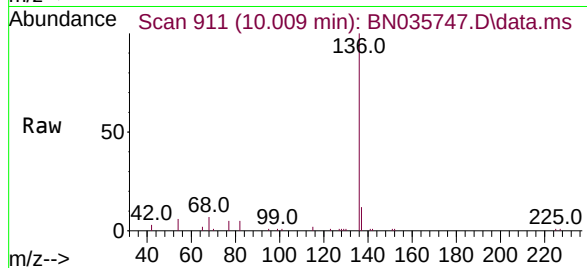
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 136 Resp: 1140
Ion Ratio Lower Upper
136 100
137 11.7 10.2 15.2
54 6.3 6.1 9.1
68 6.6 6.4 9.6

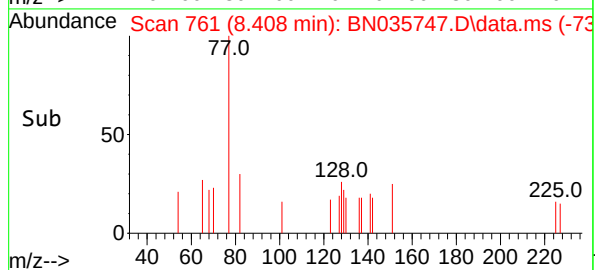
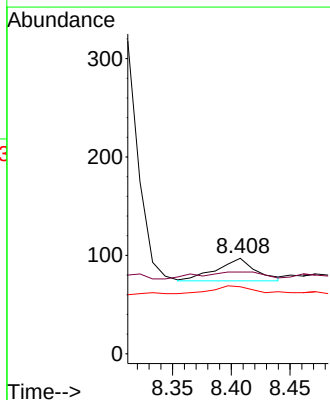
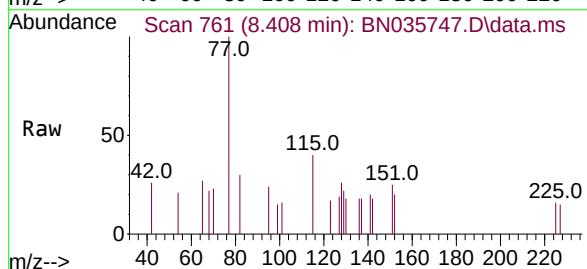
Manual Integrations
APPROVED

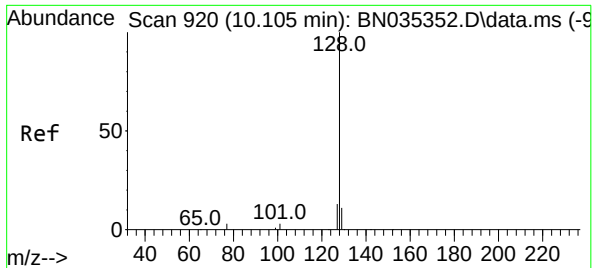
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#8
Nitrobenzene-d5
Concen: 0.008 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 82 Resp: 53
Ion Ratio Lower Upper
82 100
128 85.6 33.4 50.0#
54 70.1 36.7 55.1#





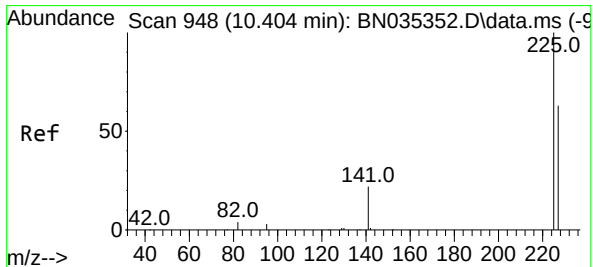
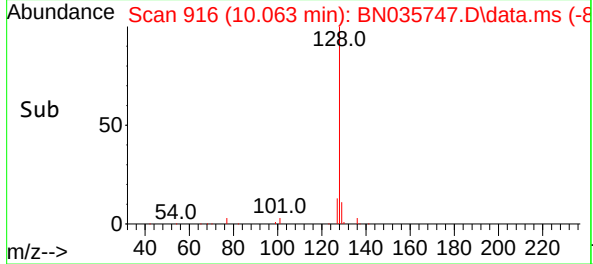
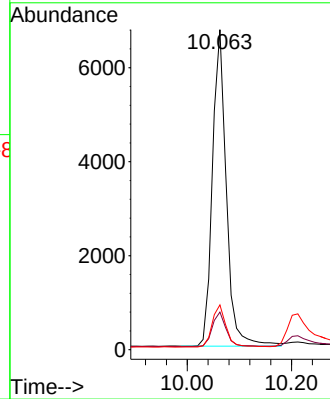
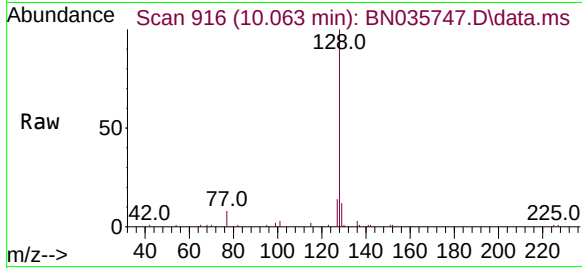
#9
Naphthalene
Concen: 0.413 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 1242
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.0 11.4 17.2

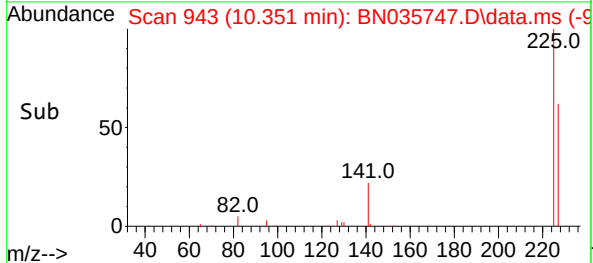
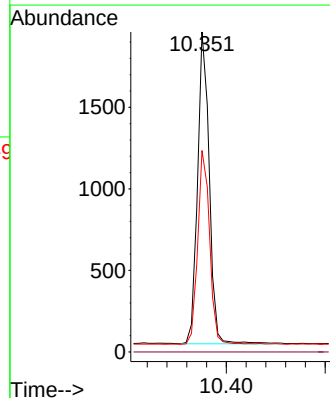
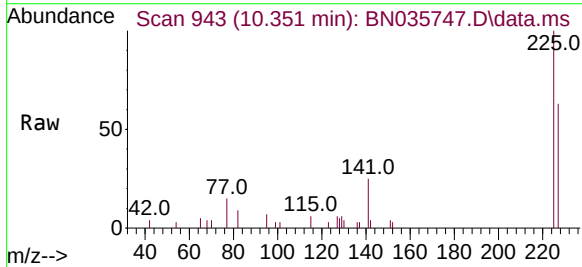
Manual Integrations
APPROVED

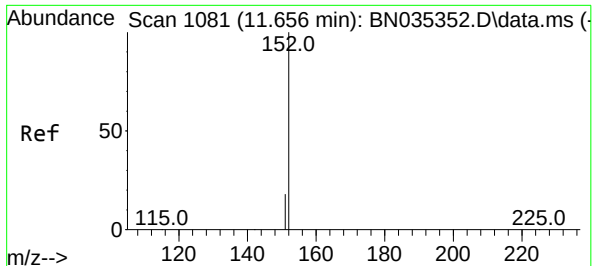
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#10
Hexachlorobutadiene
Concen: 0.453 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

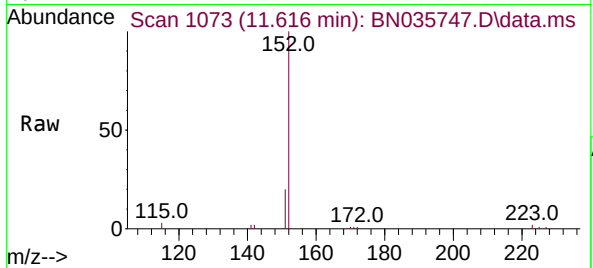
Tgt Ion:225 Resp: 3142
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

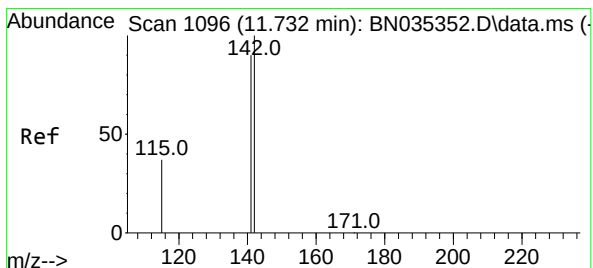
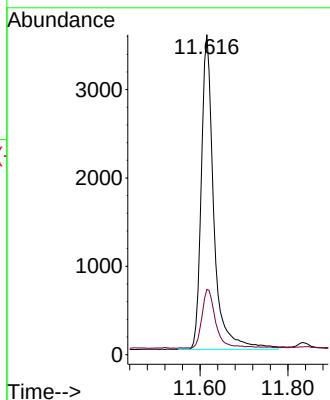
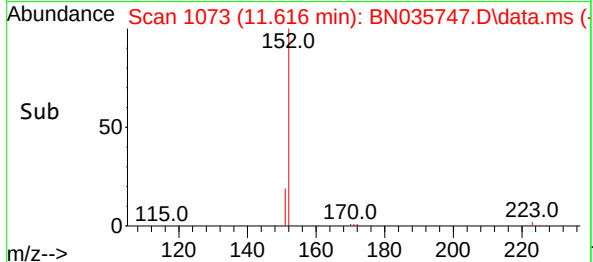
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 7049
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

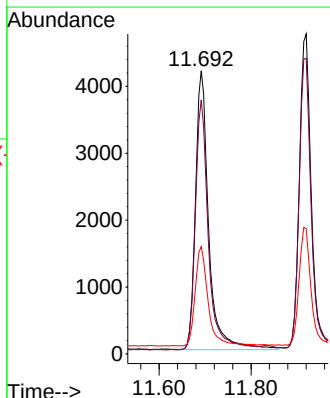
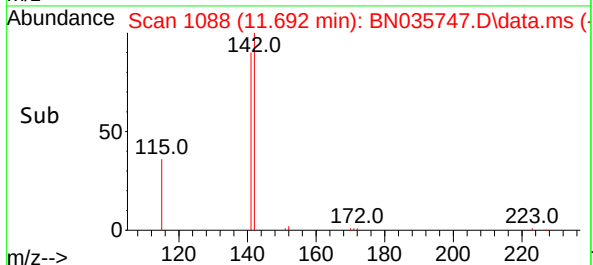
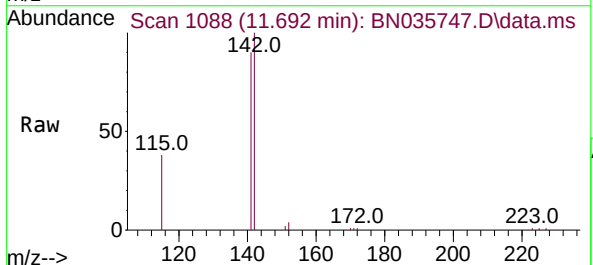
Manual Integrations
APPROVED

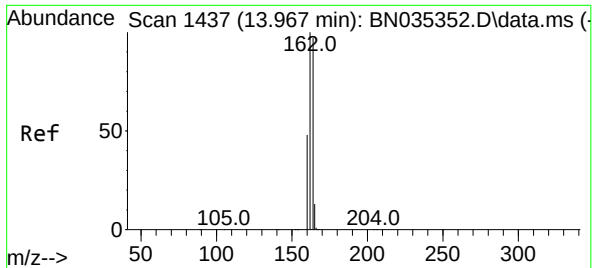
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

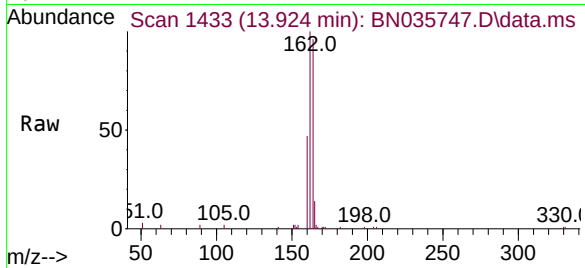
Tgt Ion:142 Resp: 8345
Ion Ratio Lower Upper
142 100
141 89.7 72.2 108.4
115 37.9 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

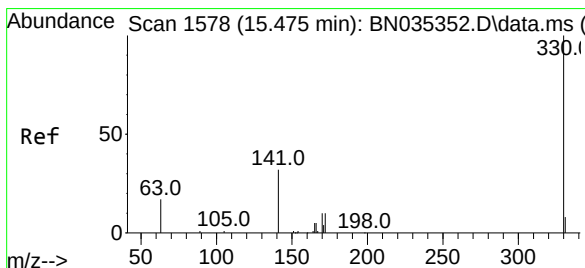
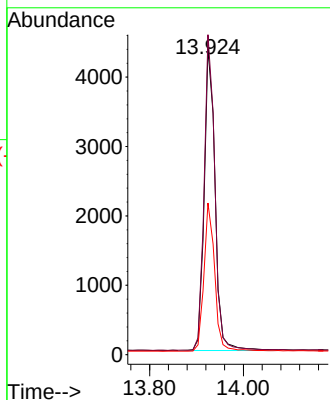
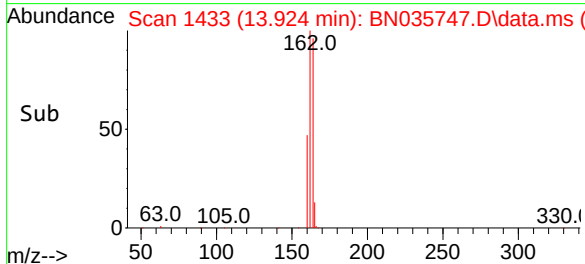
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 7019
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 49.5 40.1 60.1

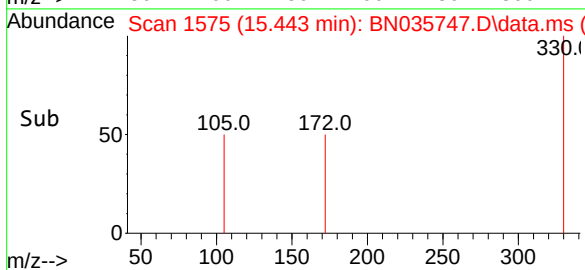
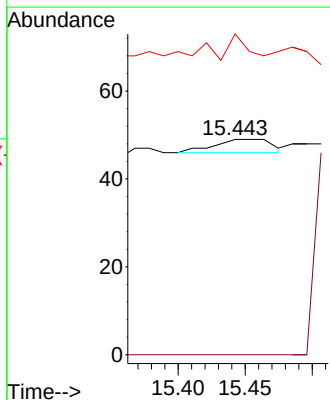
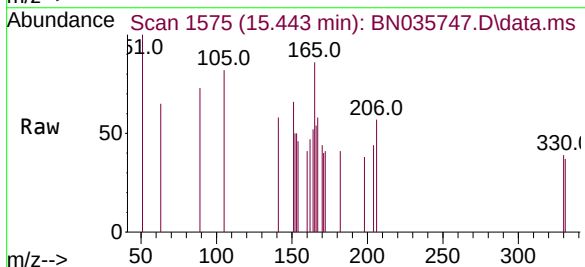
Manual Integrations
APPROVED

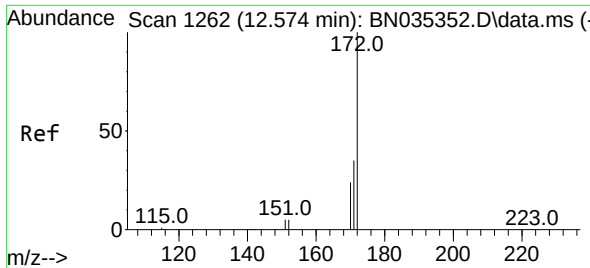
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#14
2,4,6-Tribromophenol
Concen: 0.002 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

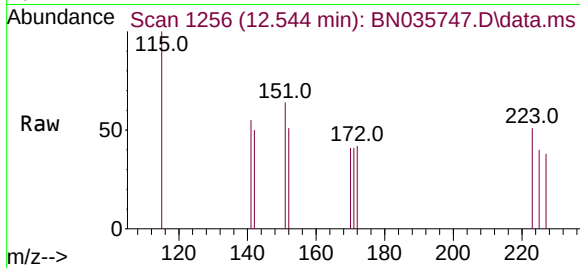
Tgt Ion:330 Resp: 9
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 77.8 26.6 40.0#





#15
2-Fluorobiphenyl
Concen: 0.000 ng
RT: 12.544 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

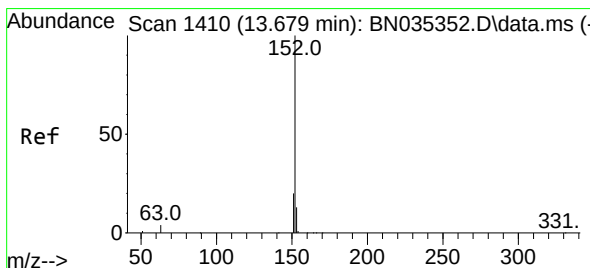
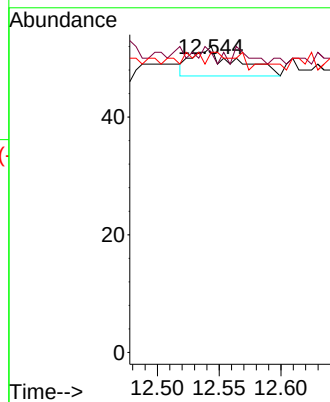
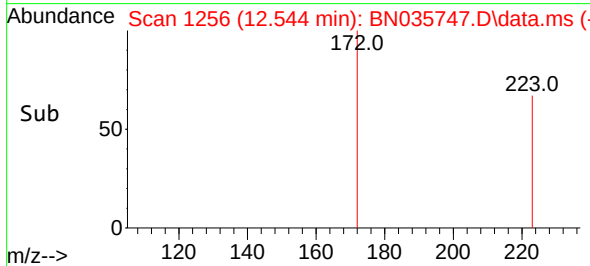
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 11
Ion Ratio Lower Upper
172 100
171 98.1 29.0 43.4
170 98.1 19.8 29.8

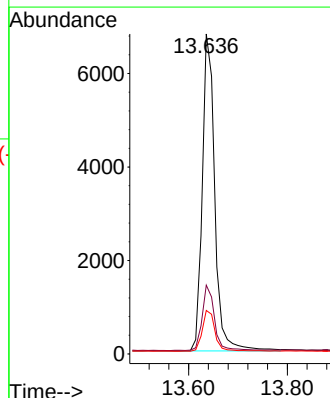
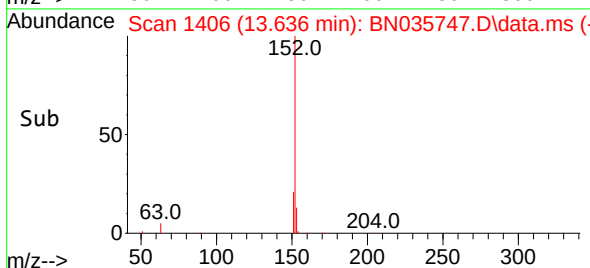
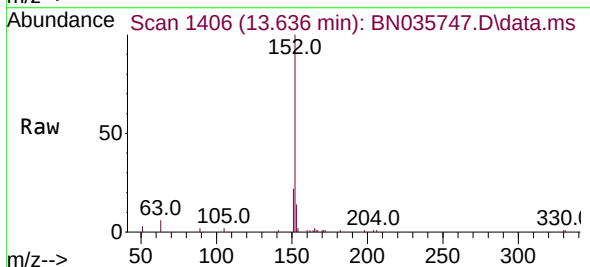
Manual Integrations
APPROVED

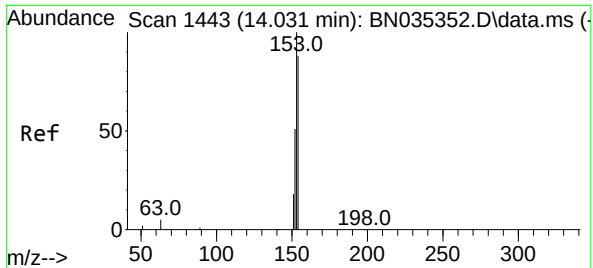
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#16
Acenaphthylene
Concen: 0.405 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

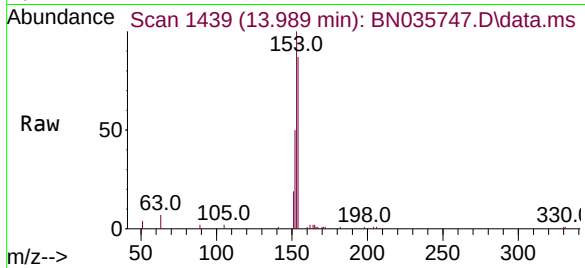
Tgt Ion:152 Resp: 11936
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.2
153 13.1 10.4 15.6





#17
Acenaphthene
Concen: 0.417 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

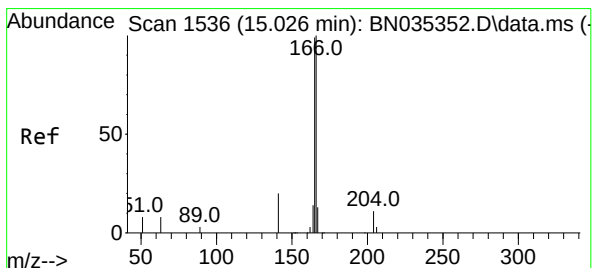
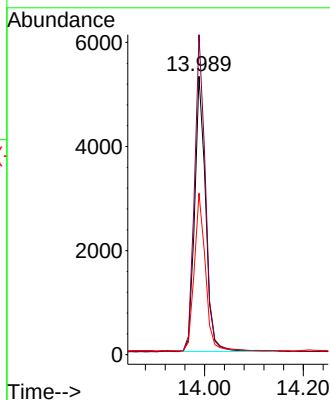
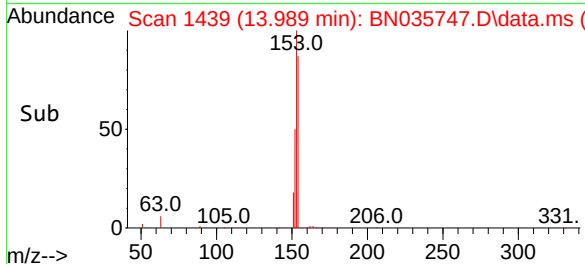
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 816
Ion Ratio Lower Upper
154 100
153 115.3 92.6 139.0
152 57.6 49.0 73.6

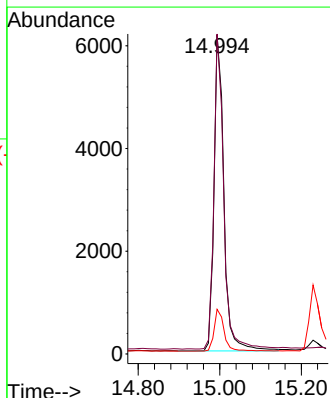
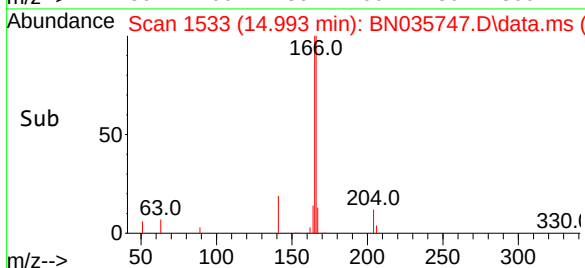
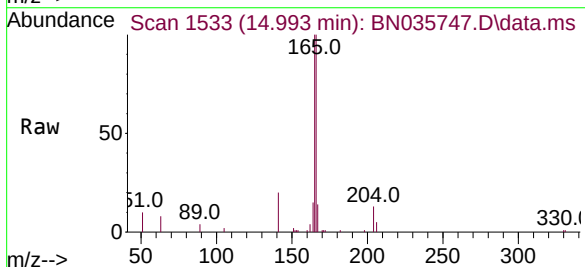
Manual Integrations
APPROVED

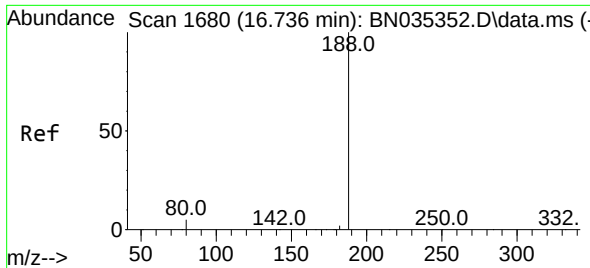
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#18
Fluorene
Concen: 0.368 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:166 Resp: 10307
Ion Ratio Lower Upper
166 100
165 98.2 79.7 119.5
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 1395

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

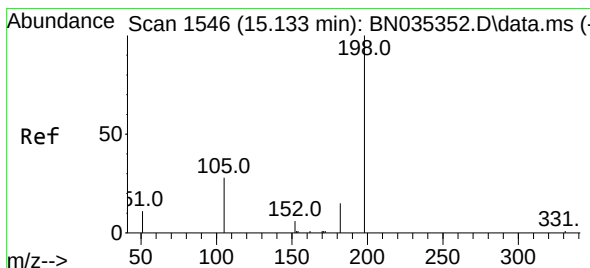
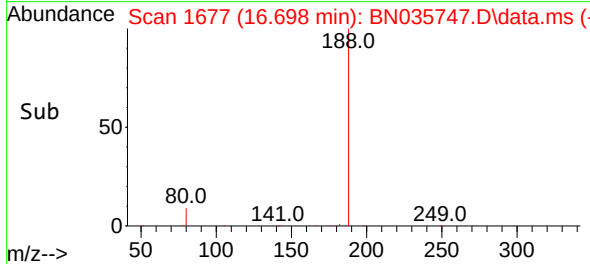
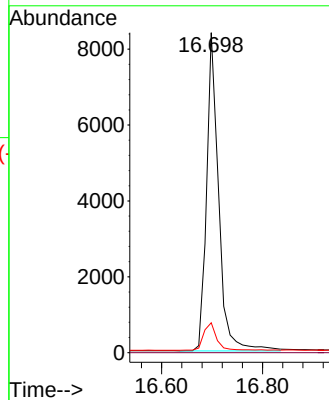
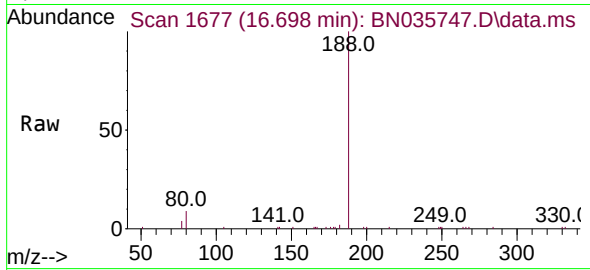
80 9.4 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.122 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

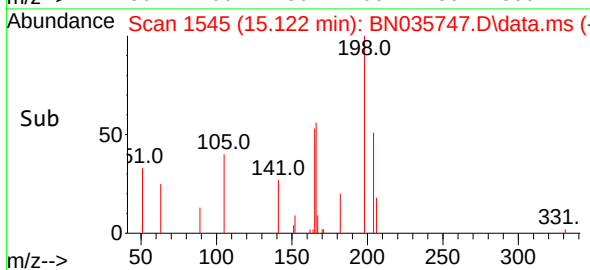
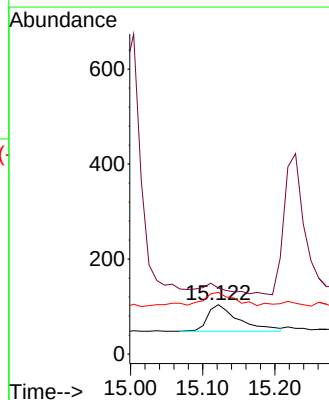
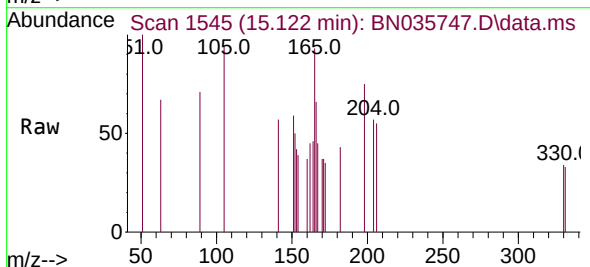
Tgt Ion:198 Resp: 168

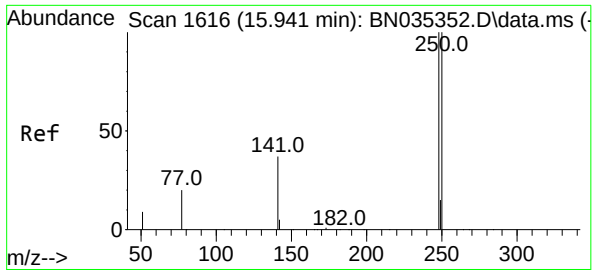
Ion Ratio Lower Upper

198 100

51 133.7 46.5 69.7#

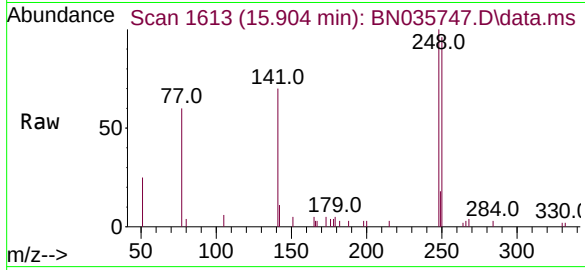
105 125.0 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

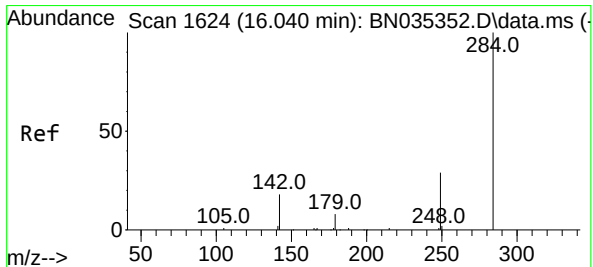
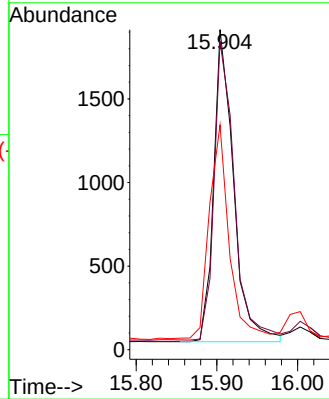
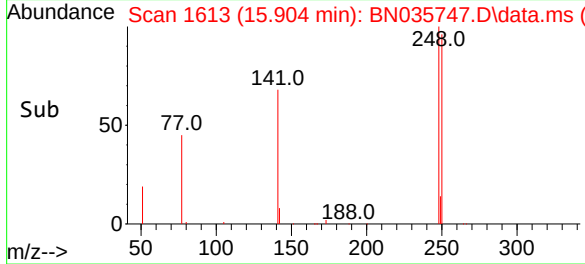
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 318
Ion Ratio Lower Upper
248 100
250 96.4 80.6 120.8
141 70.3 31.5 47.3

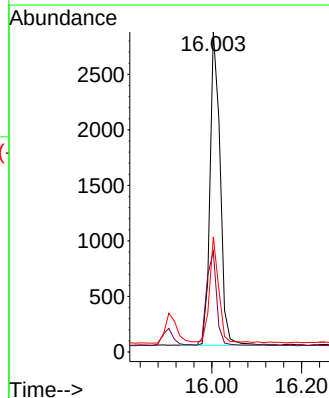
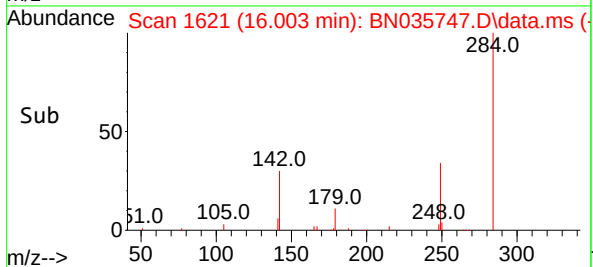
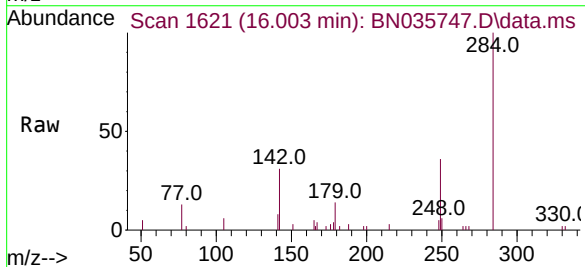
Manual Integrations
APPROVED

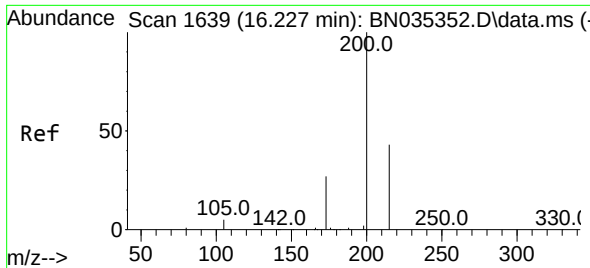
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#22
Hexachlorobenzene
Concen: 0.460 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:284 Resp: 4408
Ion Ratio Lower Upper
284 100
142 29.9 26.7 40.1
249 30.7 24.6 36.8





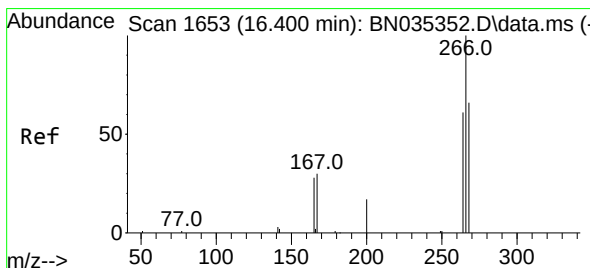
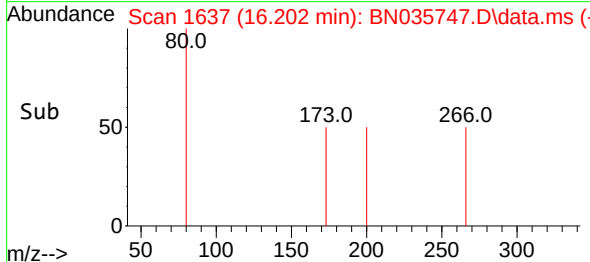
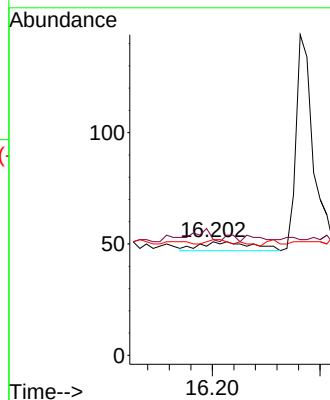
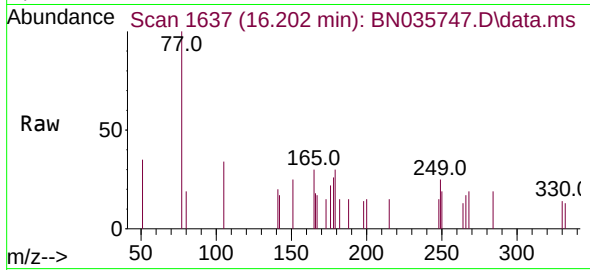
#23
Atrazine
Concen: 0.005 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 21
Ion Ratio Lower Upper
200 100
173 102.0 24.1 36.1
215 102.0 36.9 55.3

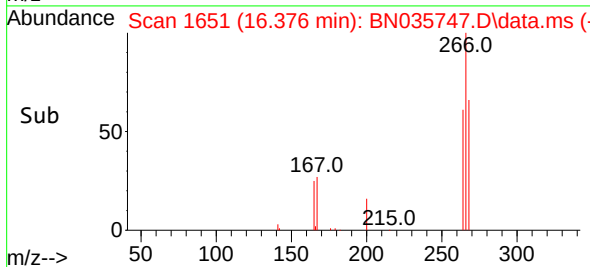
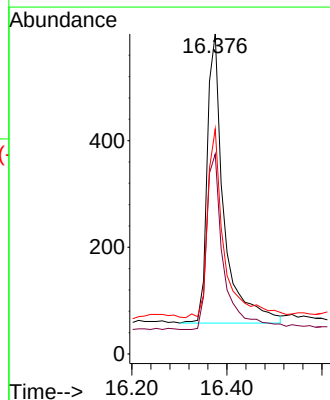
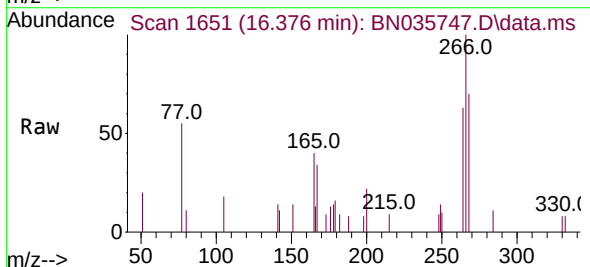
Manual Integrations
APPROVED

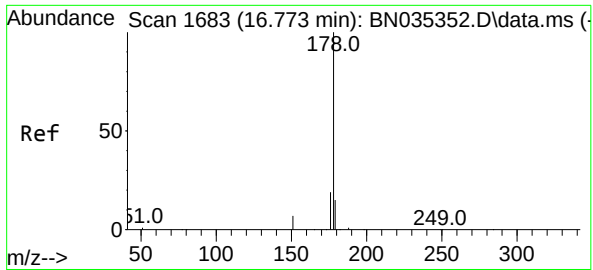
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#24
Pentachlorophenol
Concen: 0.319 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

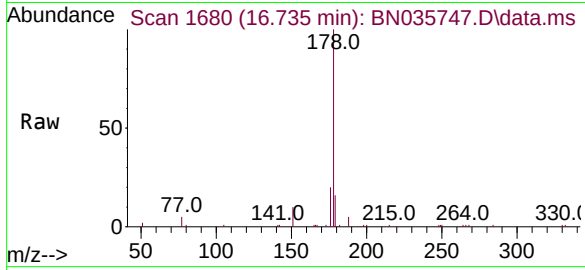
Tgt Ion:266 Resp: 1329
Ion Ratio Lower Upper
266 100
264 61.8 42.3 63.5
268 64.7 43.3 64.9





#25
Phenanthrene
Concen: 0.403 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

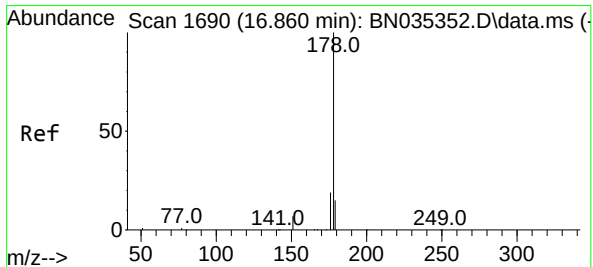
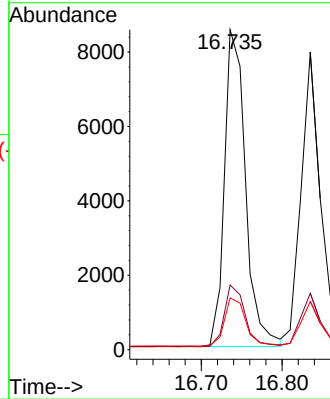
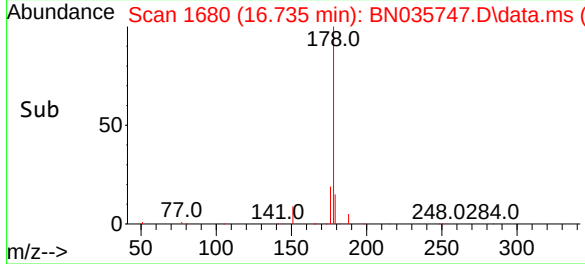
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 1545
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5

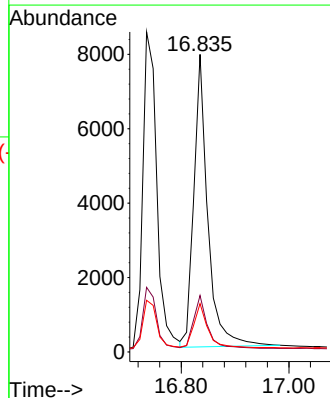
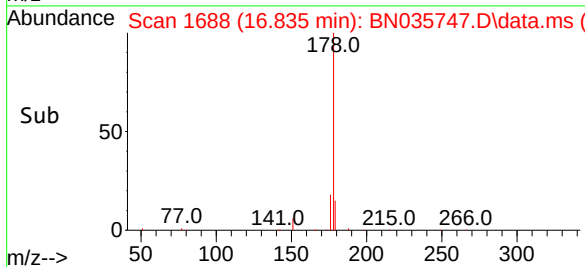
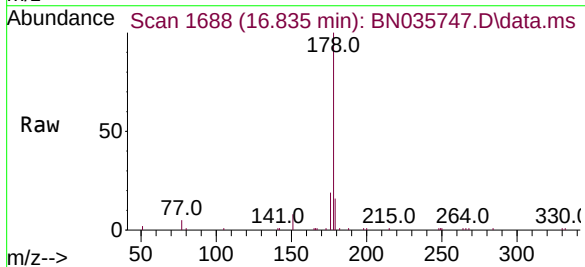
Manual Integrations
APPROVED

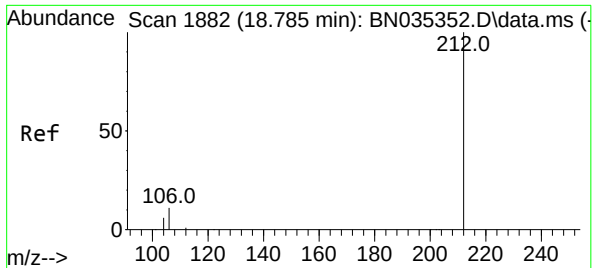
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#26
Anthracene
Concen: 0.408 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 14156
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.5 12.6 18.8





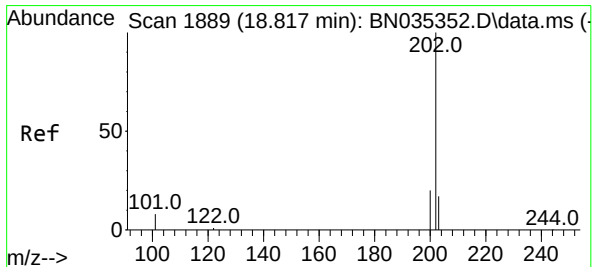
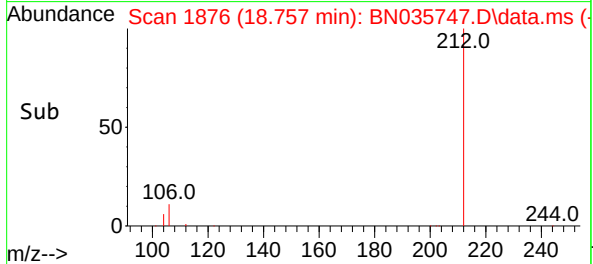
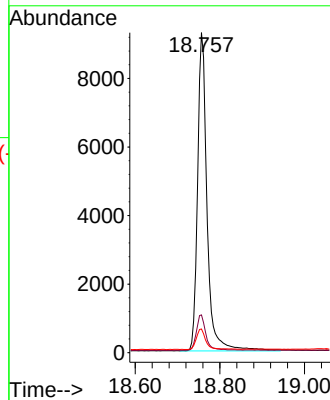
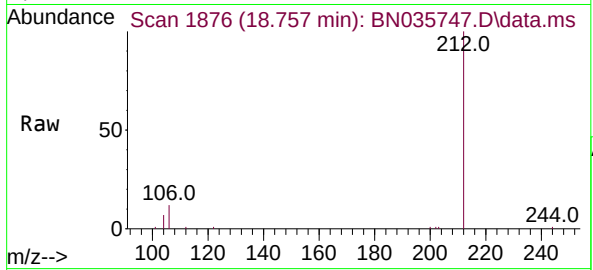
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 1442
Ion Ratio Lower Upper
212 100
106 11.1 9.2 13.8
104 6.3 5.3 7.9

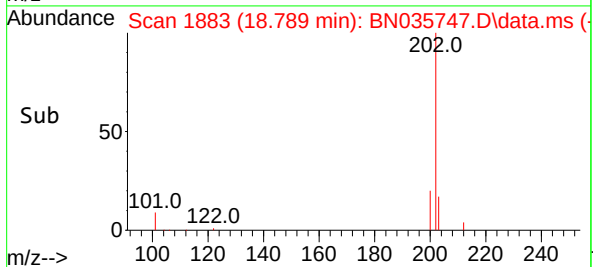
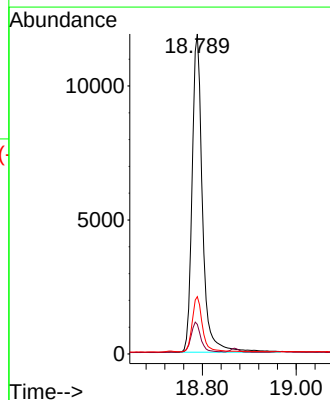
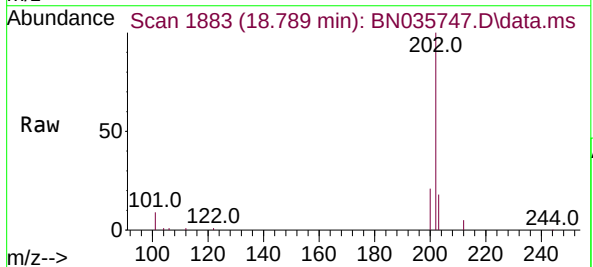
Manual Integrations
APPROVED

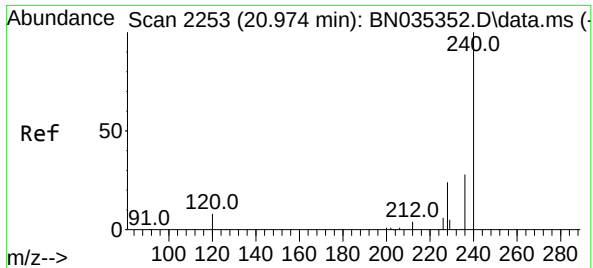
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 18255
Ion Ratio Lower Upper
202 100
101 9.4 7.4 11.0
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 11878

Ion Ratio Lower Upper

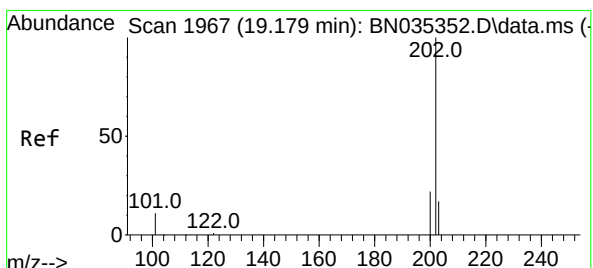
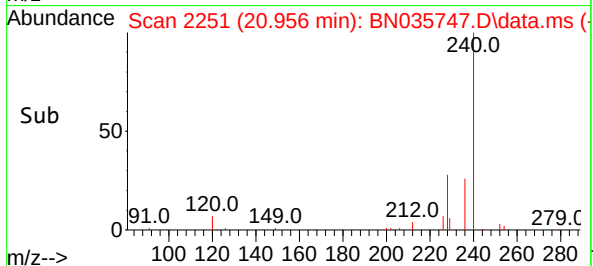
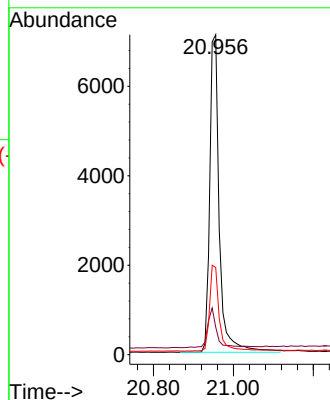
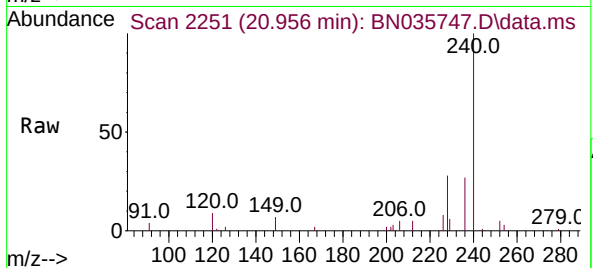
240 100

120 8.6 7.9 11.9

236 27.2 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

#30

Pyrene

Concen: 0.453 ng

RT: 19.156 min Scan# 1962

Delta R.T. -0.005 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

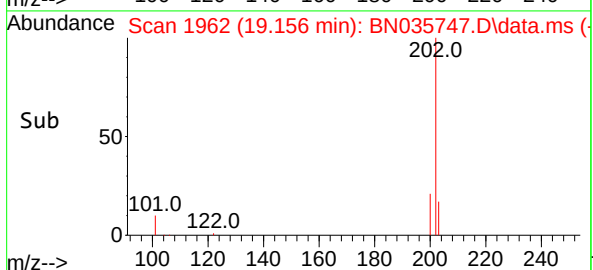
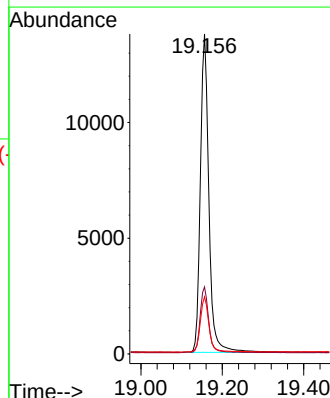
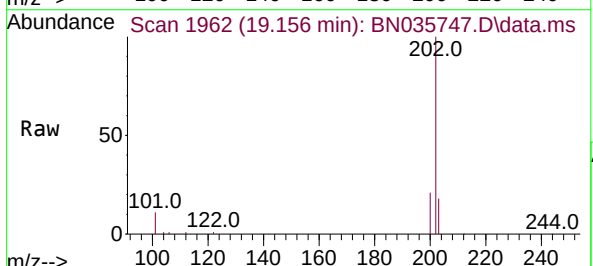
Tgt Ion:202 Resp: 19874

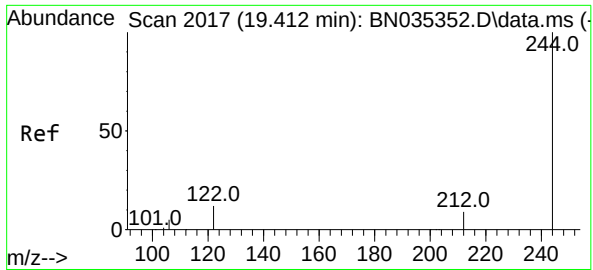
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

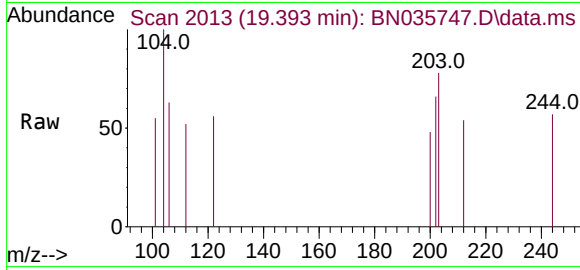
203 17.9 14.3 21.5





#31
Terphenyl-d14
Concen: 0.001 ng
RT: 19.393 min Scan# 2017
Delta R.T. 0.004 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

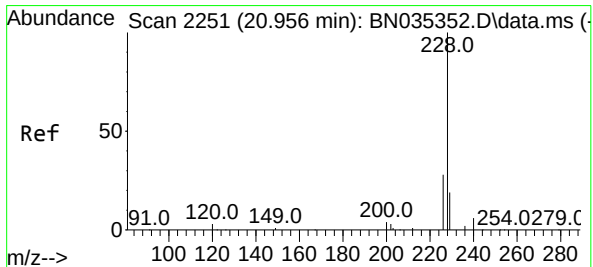
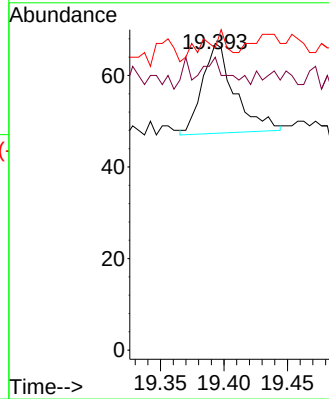
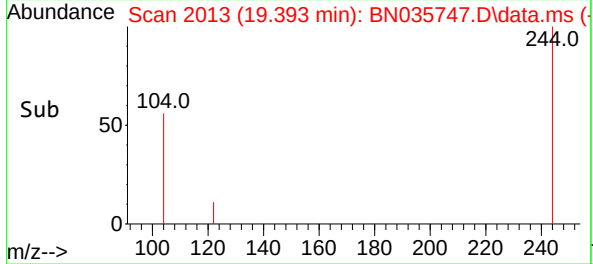
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:244 Resp: 35
Ion Ratio Lower Upper
244 100
212 95.5 8.1 12.1
122 98.5 10.3 15.5

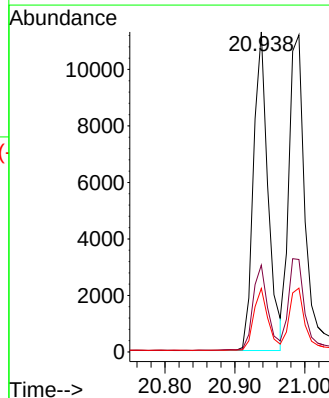
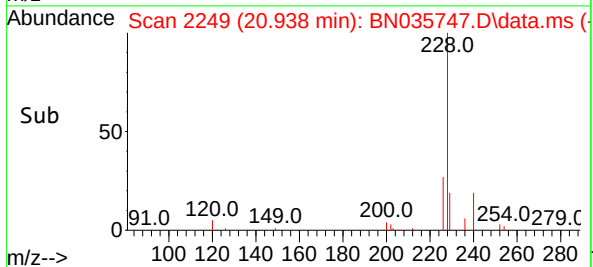
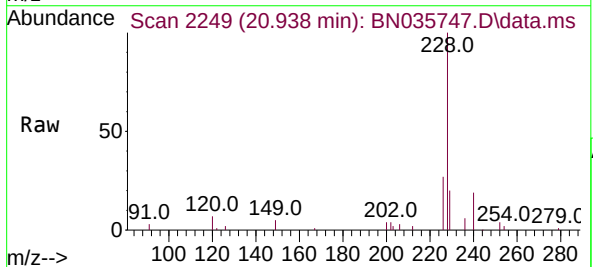
Manual Integrations
APPROVED

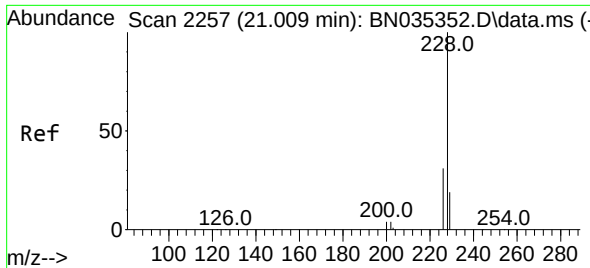
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

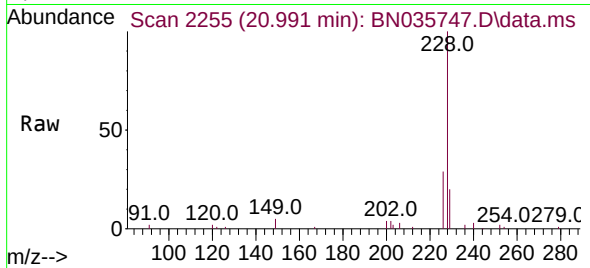
Tgt Ion:228 Resp: 16354
Ion Ratio Lower Upper
228 100
226 27.2 22.5 33.7
229 19.9 15.8 23.8





#33
Chrysene
Concen: 0.428 ng
RT: 20.991 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

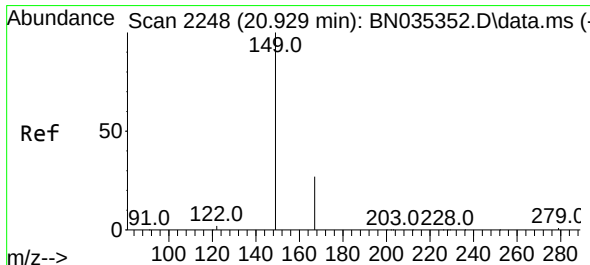
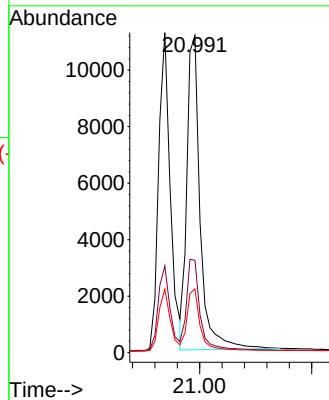
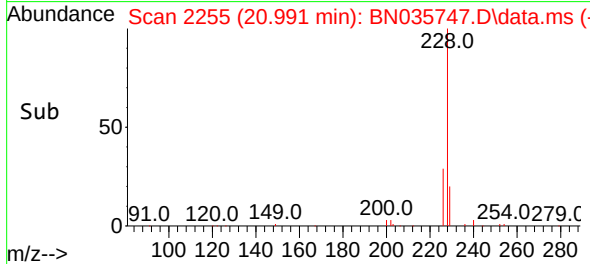
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 18340
Ion Ratio Lower Upper
228 100
226 29.2 24.6 37.0
229 20.1 15.9 23.9

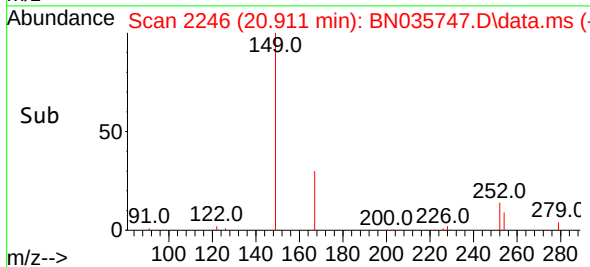
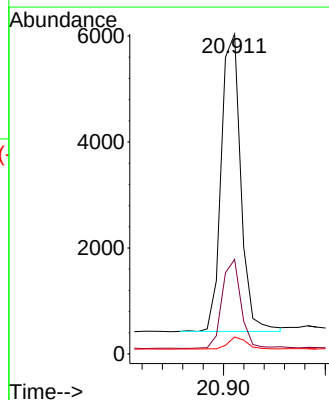
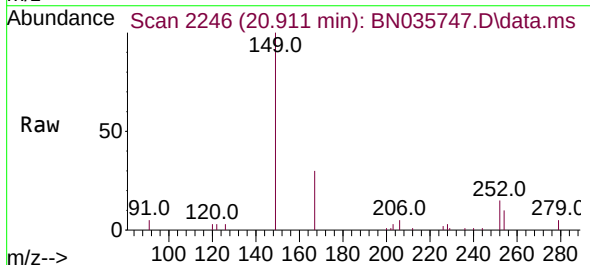
Manual Integrations
APPROVED

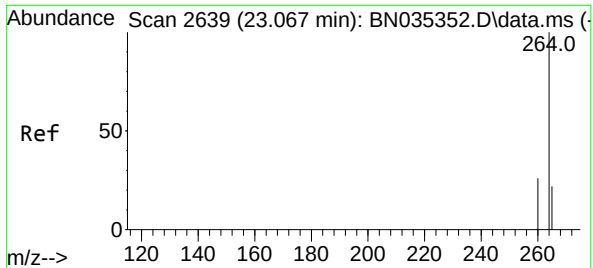
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.456 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

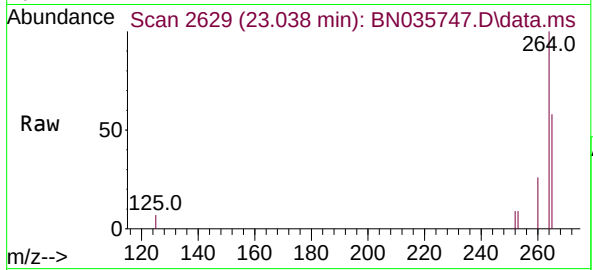
Tgt Ion:149 Resp: 7490
Ion Ratio Lower Upper
149 100
167 29.2 22.2 33.4
279 3.7 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

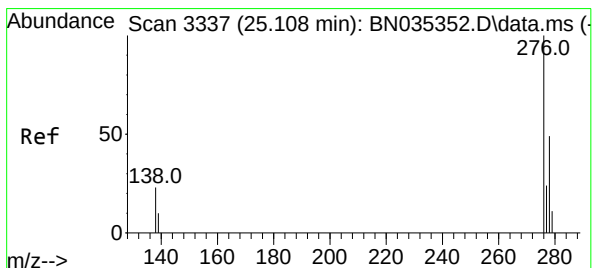
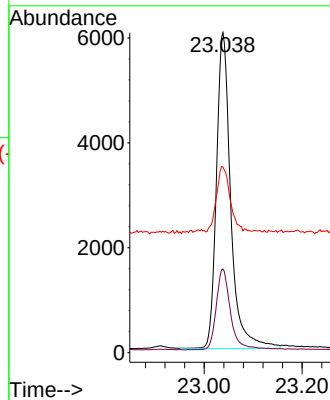
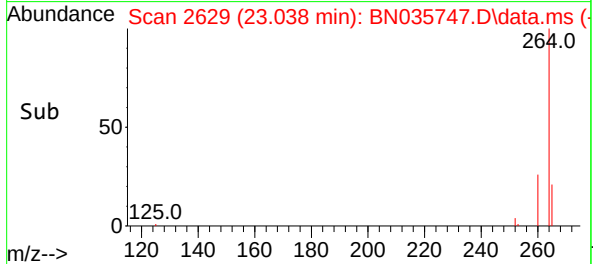
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 12200
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 58.1 40.2 60.4

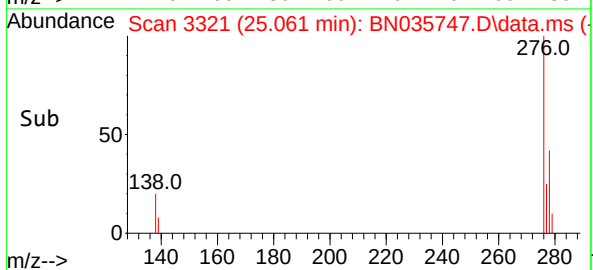
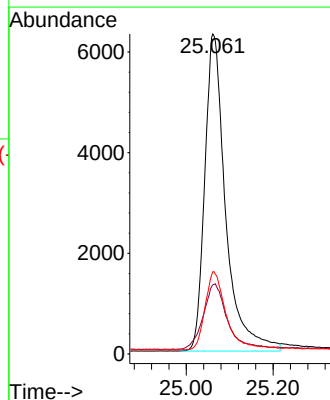
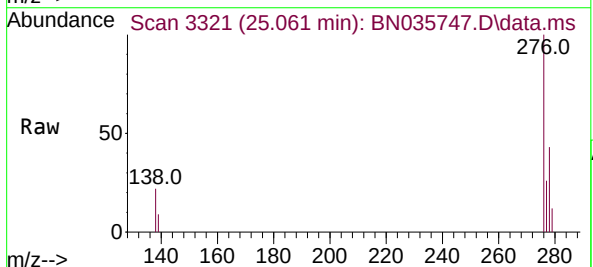
Manual Integrations
APPROVED

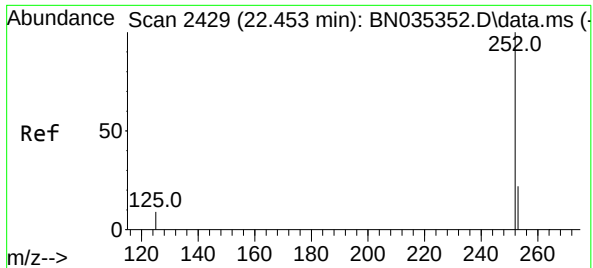
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.442 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

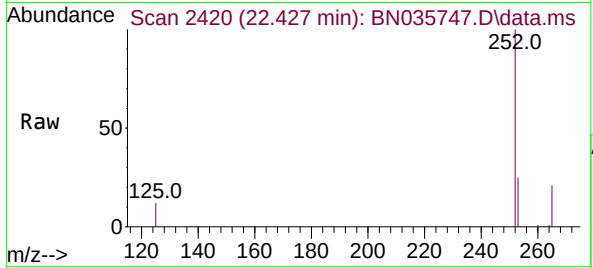
Tgt Ion:276 Resp: 21102
Ion Ratio Lower Upper
276 100
138 23.7 19.4 29.0
277 25.2 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

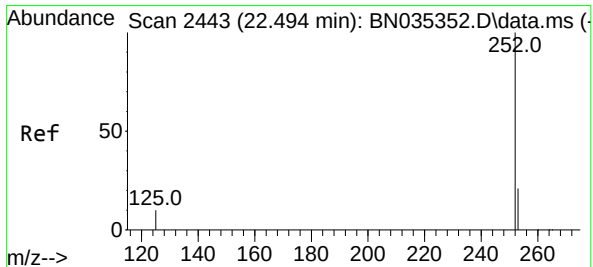
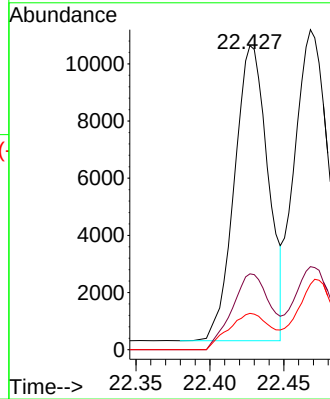
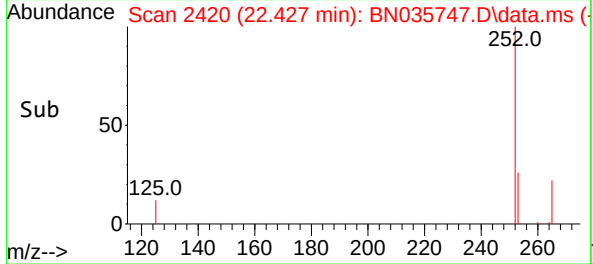
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:252 Resp: 2198
Ion Ratio Lower Upper
252 100
253 25.0 19.6 29.4
125 12.0 9.6 14.4

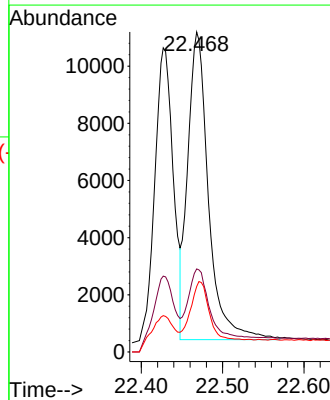
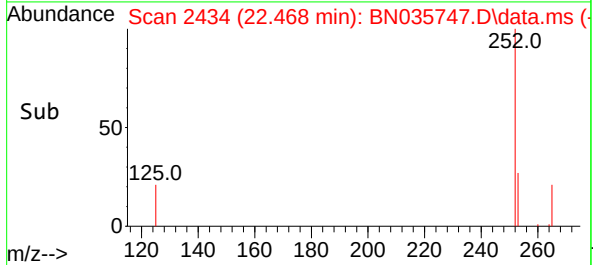
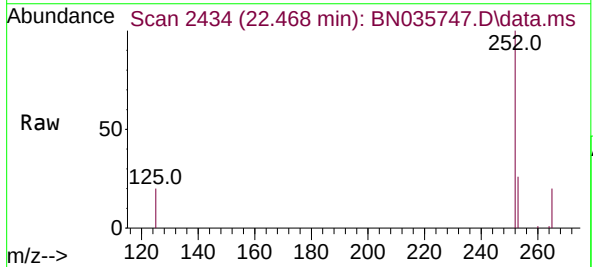
Manual Integrations
APPROVED

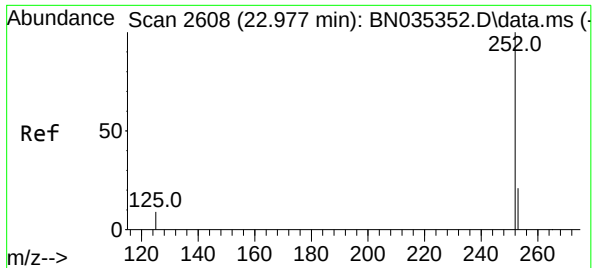
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#38
Benzo(k)fluoranthene
Concen: 0.436 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 19139
Ion Ratio Lower Upper
252 100
253 26.0 19.5 29.3
125 20.5 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

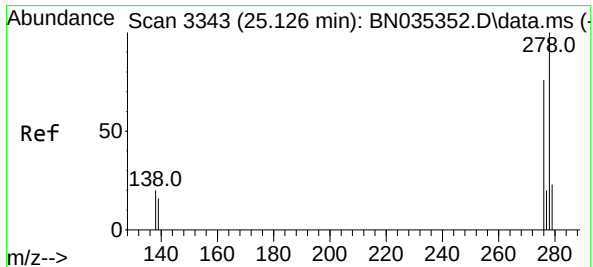
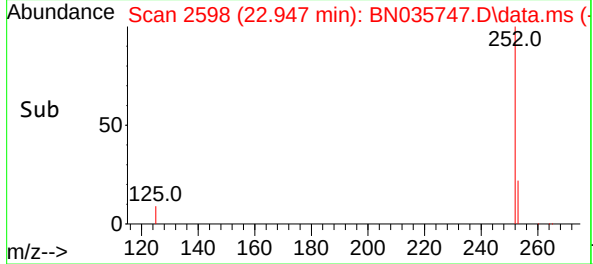
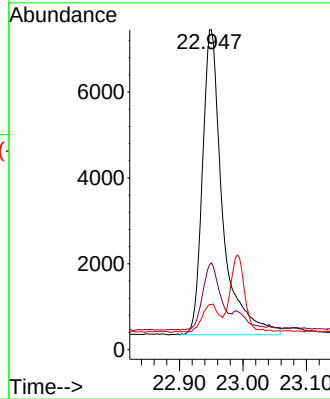
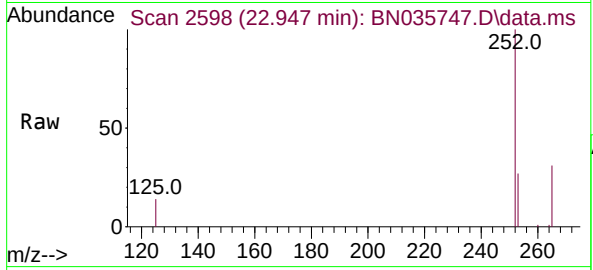
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	15630
Ion Ratio	Lower	Upper	
252	100		
253	26.6	20.2	30.4
125	14.2	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.421 ng

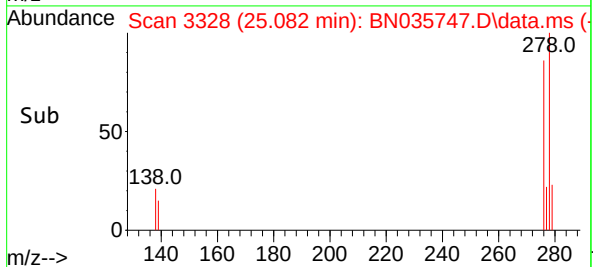
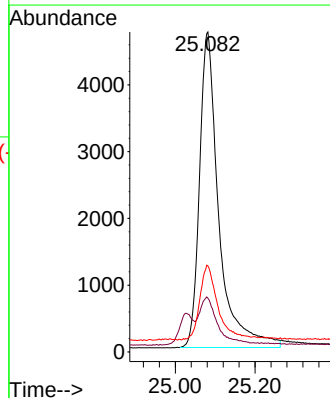
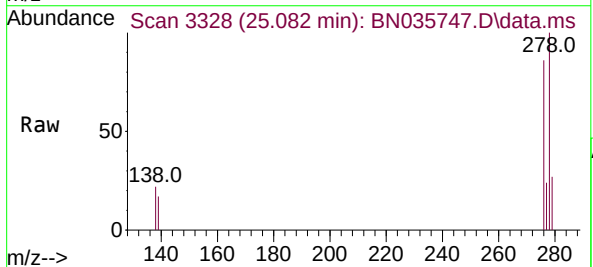
RT: 25.082 min Scan# 3328

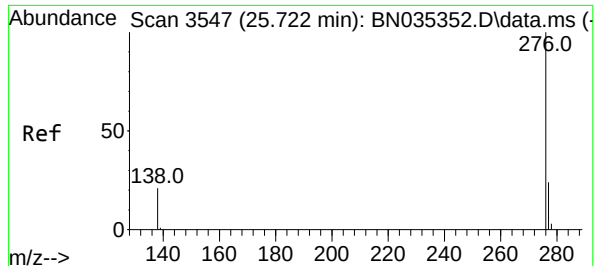
Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Tgt Ion:	278	Resp:	15847
Ion Ratio	Lower	Upper	
278	100		
139	16.8	14.2	21.4
279	26.9	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.432 ng

RT: 25.675 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035747.D

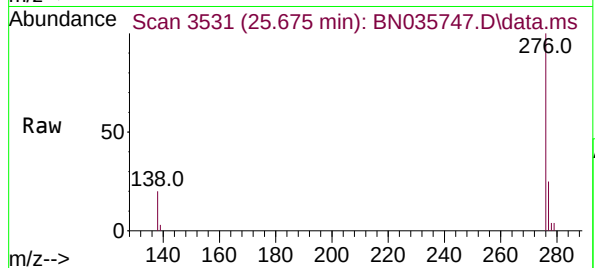
Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 1699

Ion Ratio Lower Upper

276 100

277 24.6 19.9 29.9

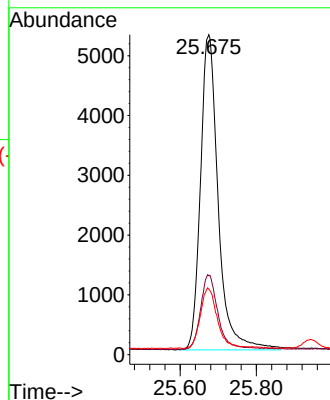
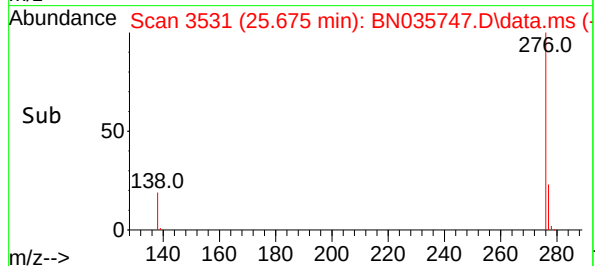
138 20.4 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035747.D
 Acq On : 20 Dec 2024 18:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 21 01:42:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	202#	0.00
2	1,4-Dioxane	0.382	0.448	-17.3	241#	0.00
3	n-Nitrosodimethylamine	0.319	0.014	95.6#	8#	-0.04
4 S	2-Fluorophenol	1.001	0.002	99.8#	0#	-0.01
5 S	Phenol-d6	1.204	0.025	97.9#	4#	0.00
6	bis(2-Chloroethyl)ether	1.012	1.045	-3.3	213#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	218#	-0.01
8 S	Nitrobenzene-d5	0.244	0.005	98.0#	4#	0.00
9	Naphthalene	1.055	1.090	-3.3	227#	0.00
10	Hexachlorobutadiene	0.243	0.276	-13.6	243#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.618	1.3	218#	0.00
12	2-Methylnaphthalene	0.755	0.732	3.0	216#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	185#	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.001	99.6#	1#	-0.01
15 S	2-Fluorobiphenyl	1.512	0.002	99.9#	0#	0.00
16	Acenaphthylene	1.680	1.701	-1.3	197#	-0.01
17	Acenaphthene	1.115	1.163	-4.3	198#	-0.01
18	Fluorene	1.596	1.468	8.0	176#	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	147	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.012	69.2#	50#	0.00
21	4-Bromophenyl-phenylether	0.234	0.229	2.1	149	-0.01
22	Hexachlorobenzene	0.275	0.316	-14.9	170#	-0.01
23	Atrazine	0.167	0.002	98.8#	2#	0.00
24	Pentachlorophenol	0.120	0.095	20.8	147	0.00
25	Phenanthrene	1.099	1.108	-0.8	153#	-0.01
26	Anthracene	0.994	1.015	-2.1	159#	0.00
27 SURR	Fluoranthene-d10	1.134	1.034	8.8	141	0.00
28	Fluoranthene	1.481	1.309	11.6	136	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	125	0.00
30	Pyrene	1.477	1.673	-13.3	141	0.00
31 S	Terphenyl-d14	0.789	0.003	99.6#	0#	0.00
32	Benzo(a)anthracene	1.399	1.377	1.6	127	0.00
33	Chrysene	1.443	1.544	-7.0	134	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.631	-14.1	152#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.730	-10.6	127	0.00
37	Benzo(b)fluoranthene	1.463	1.802	-23.2	154#	0.00
38	Benzo(k)fluoranthene	1.440	1.569	-9.0	126	0.00
39 C	Benzo(a)pyrene	1.205	1.282	-6.4	126	0.00
40	Dibenzo(a,h)anthracene	1.234	1.299	-5.3	122	0.00
41	Benzo(g,h,i)perylene	1.289	1.393	-8.1	126	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035747.D
 Acq On : 20 Dec 2024 18:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 21 01:42:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	202	0.00
2	1,4-Dioxane	0.400	0.469	-17.2	241	0.00
3	n-Nitrosodimethylamine	0.400	0.017	95.8#	8	-0.04
4 S	2-Fluorophenol	0.400	0.001	99.8#	0	-0.01
5 S	Phenol-d6	0.400	0.008	98.0#	4	0.00
6	bis(2-Chloroethyl)ether	0.400	0.413	-3.2	213	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	218	-0.01
8 S	Nitrobenzene-d5	0.400	0.008	98.0#	4	0.00
9	Naphthalene	0.400	0.413	-3.2	227	0.00
10	Hexachlorobutadiene	0.400	0.453	-13.2	243	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.395	1.3	218	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	216	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	185	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.002	99.5#	1	-0.01
15 S	2-Fluorobiphenyl	0.400	0.000	100.0#	0	0.00
16	Acenaphthylene	0.400	0.405	-1.3	197	-0.01
17	Acenaphthene	0.400	0.417	-4.2	198	-0.01
18	Fluorene	0.400	0.368	8.0	176	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	147	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.122	69.5#	50	0.00
21	4-Bromophenyl-phenylether	0.400	0.391	2.3	149	-0.01
22	Hexachlorobenzene	0.400	0.460	-15.0	170	-0.01
23	Atrazine	0.400	0.005	98.8#	2	0.00
24	Pentachlorophenol	0.400	0.319	20.3	147	0.00
25	Phenanthrene	0.400	0.403	-0.8	153	-0.01
26	Anthracene	0.400	0.408	-2.0	159	0.00
27 SURR	Fluoranthene-d10	0.400	0.365	8.8	141	0.00
28	Fluoranthene	0.400	0.353	11.8	136	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	125	0.00
30	Pyrene	0.400	0.453	-13.2	141	0.00
31 S	Terphenyl-d14	0.400	0.001	99.8#	0	0.00
32	Benzo(a)anthracene	0.400	0.394	1.5	127	0.00
33	Chrysene	0.400	0.428	-7.0	134	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.456	-14.0	152	0.00
35 I	Perylene-d12	0.400	0.400	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.442	-10.5	127	0.00
37	Benzo(b)fluoranthene	0.400	0.493	-23.2	154	0.00
38	Benzo(k)fluoranthene	0.400	0.436	-9.0	126	0.00
39 C	Benzo(a)pyrene	0.400	0.425	-6.2	126	0.00
40	Dibenzo(a,h)anthracene	0.400	0.421	-5.2	122	0.00
41	Benzo(g,h,i)perylene	0.400	0.432	-8.0	126	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG No.: P5282

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 22:16

Lab File ID: BN035794.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.540		-13.7	20.0
Fluoranthene-d10	1.134	0.950		-16.2	20.0
2-Fluorophenol	1.001	0.924		-7.7	20.0
Phenol-d6	1.204	1.016		-15.6	20.0
Nitrobenzene-d5	0.244	0.278		13.9	20.0
2-Fluorobiphenyl	1.512	1.529		1.1	20.0
2,4,6-Tribromophenol	0.284	0.208		-26.8	20.0
Terphenyl-d14	0.789	0.785		-0.5	20.0
1,4-Dioxane	0.382	0.419		9.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035794.D
 Acq On : 23 Dec 2024 22:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:20 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3234	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7877	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4482	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8845	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7163	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7277	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2987	0.369	ng	0.00
5) Phenol-d6	6.477	99	3287	0.338	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2193m	0.456	ng	-0.01
11) 2-Methylnaphthalene-d10	11.615	152	4254	0.345	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	932	0.293	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6854	0.405	ng	0.00
27) Fluoranthene-d10	18.752	212	8405	0.335	ng	0.00
31) Terphenyl-d14	19.388	244	5620	0.398	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1355	0.438	ng	100
3) n-Nitrosodimethylamine	3.270	42	1052	0.409	ng	# 95
6) bis(2-Chloroethyl)ether	6.715	93	2845	0.348	ng	97
9) Naphthalene	10.052	128	7865	0.379	ng	100
10) Hexachlorobutadiene	10.351	225	2082	0.434	ng	# 100
12) 2-Methylnaphthalene	11.692	142	5023	0.338	ng	99
16) Acenaphthylene	13.636	152	6992	0.372	ng	99
17) Acenaphthene	13.989	154	4714	0.377	ng	99
18) Fluorene	14.993	166	6004	0.336	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	221	0.254	ng	# 12
21) 4-Bromophenyl-phenylether	15.904	248	1918	0.371	ng	# 86
22) Hexachlorobenzene	16.003	284	2804	0.462	ng	97
23) Atrazine	16.202	200	1338	0.363	ng	96
24) Pentachlorophenol	16.375	266	783	0.296	ng	87
25) Phenanthrene	16.735	178	8831	0.363	ng	100
26) Anthracene	16.835	178	7665	0.349	ng	99
28) Fluoranthene	18.785	202	11004	0.336	ng	100
30) Pyrene	19.152	202	11228	0.425	ng	99
32) Benzo(a)anthracene	20.929	228	7716	0.308	ng	100
33) Chrysene	20.983	228	11129	0.431	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4068	0.411	ng	99
36) Indeno(1,2,3-cd)pyrene	25.055	276	10012	0.352	ng	98
37) Benzo(b)fluoranthene	22.421	252	14187	0.533	ng	# 95
38) Benzo(k)fluoranthene	22.462	252	10893m	0.416	ng	
39) Benzo(a)pyrene	22.944	252	8141	0.371	ng	# 87
40) Dibenzo(a,h)anthracene	25.076	278	7465	0.333	ng	# 91
41) Benzo(g,h,i)perylene	25.663	276	9418	0.401	ng	98

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

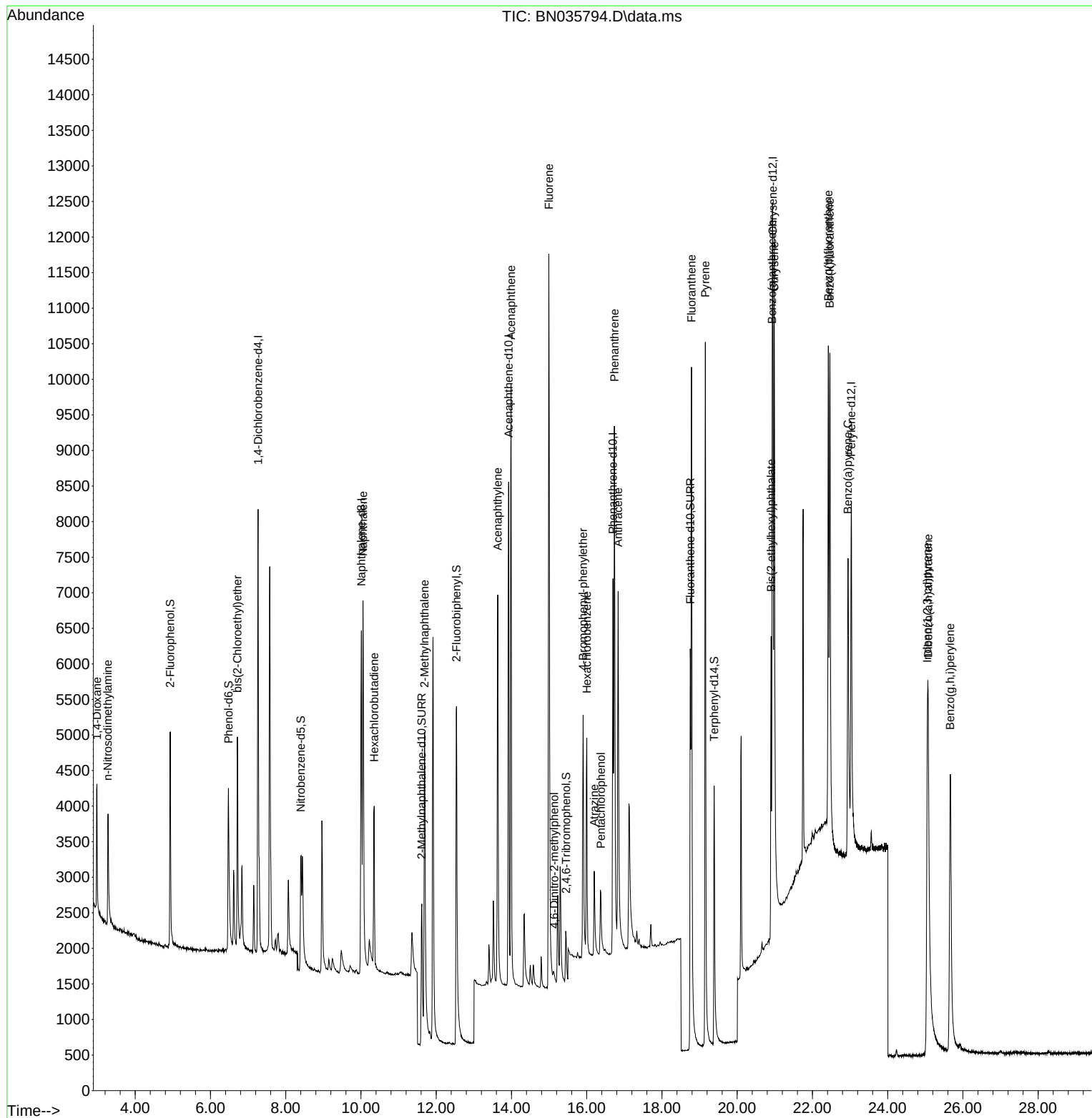
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

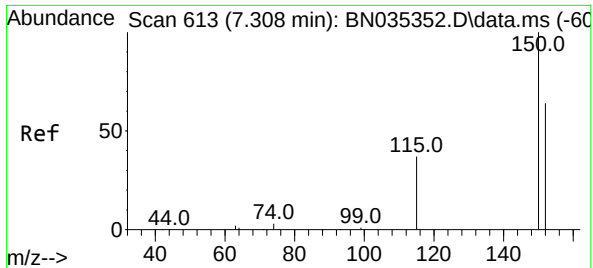
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

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

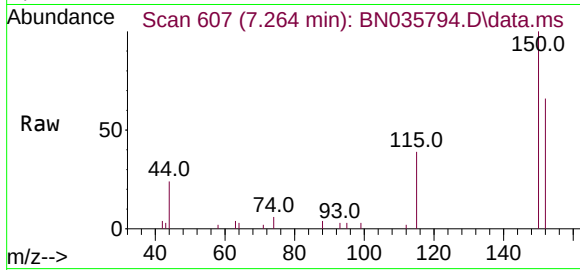
Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

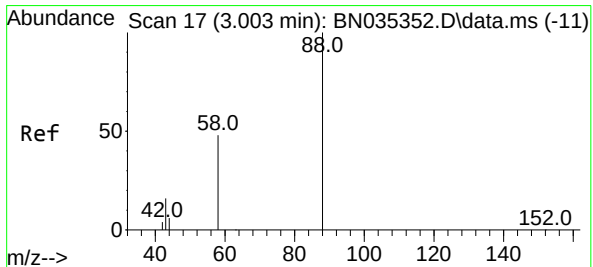
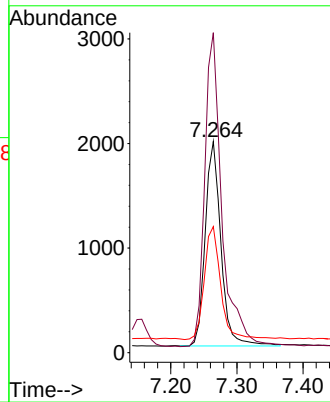
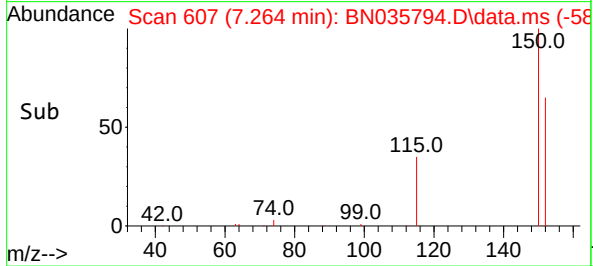
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 3234
Ion Ratio Lower Upper
152 100
150 151.5 124.0 186.0
115 59.7 49.6 74.4

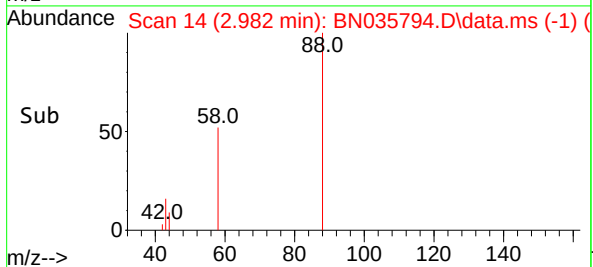
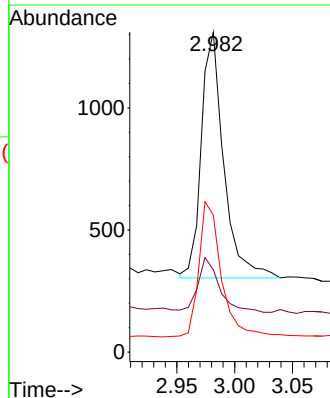
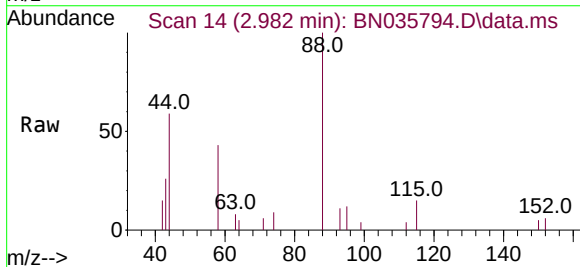
Manual Integrations
APPROVED

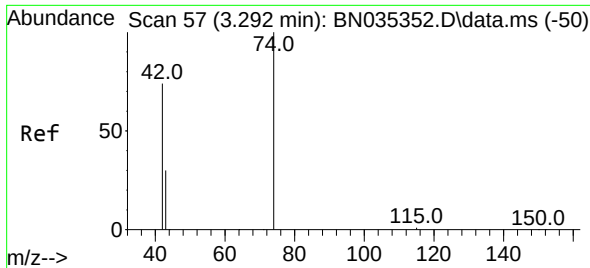
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.438 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 88 Resp: 1355
Ion Ratio Lower Upper
88 100
43 21.3 17.2 25.8
58 55.4 44.5 66.7





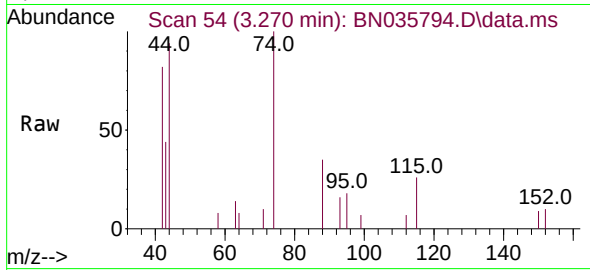
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



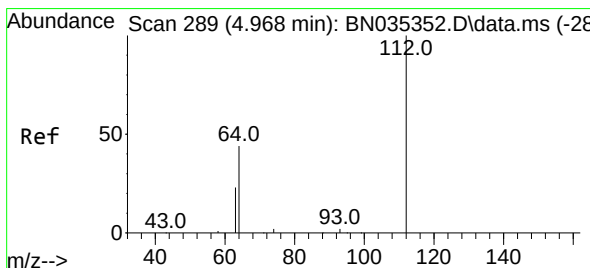
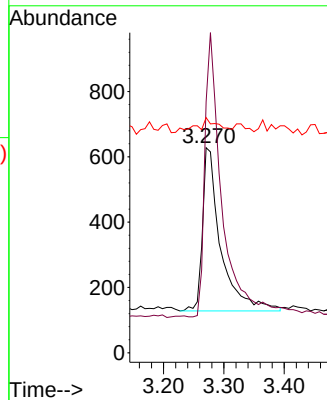
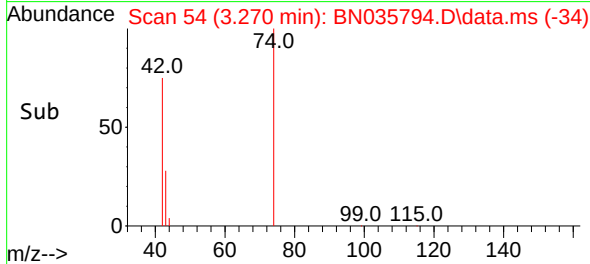
Tgt Ion: 42 Resp: 1052
Ion Ratio Lower Upper
42 100
74 162.6 124.9 187.3
44 10.1 2.2 3.4

Manual Integrations

APPROVED

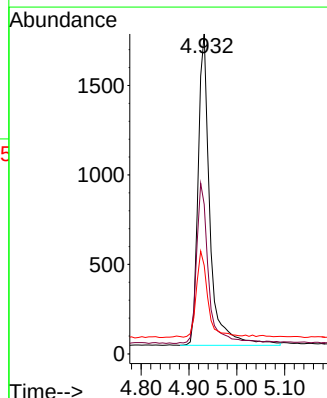
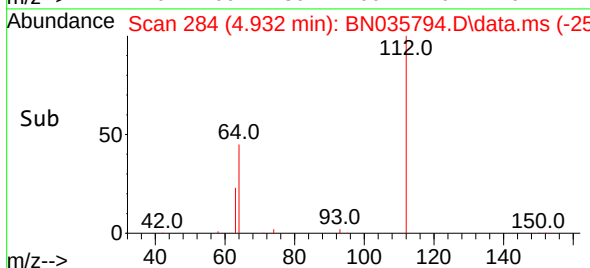
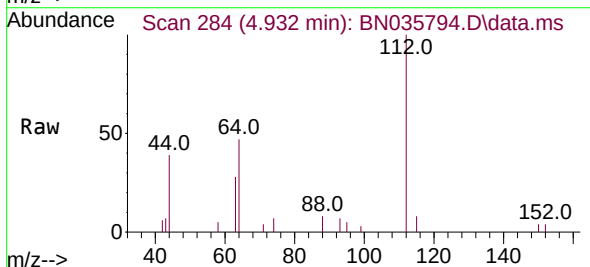
Reviewed By :Yogesh Patel 12/24/2024

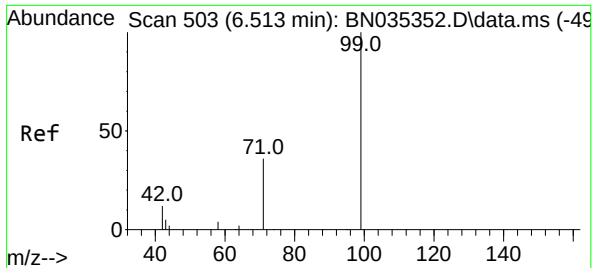
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.369 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

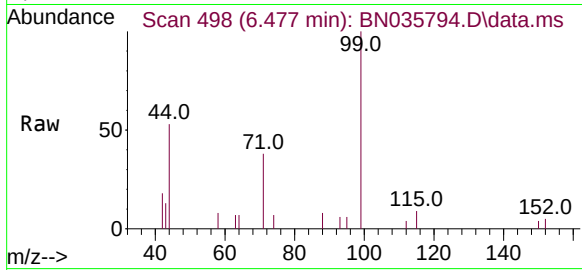
Tgt Ion:112 Resp: 2987
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 26.4 21.0 31.6





#5
Phenol-d6
Concen: 0.338 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

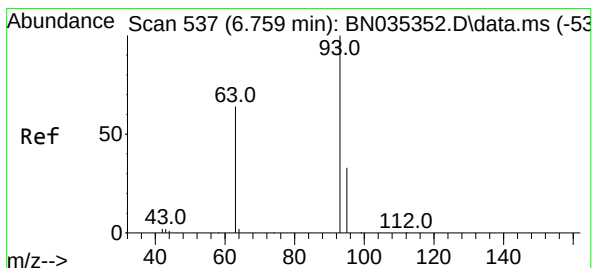
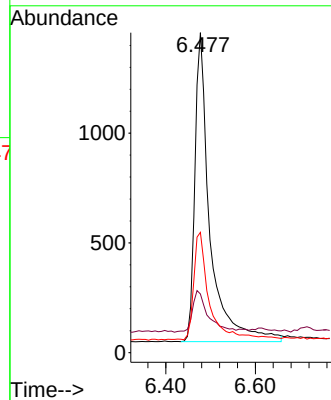
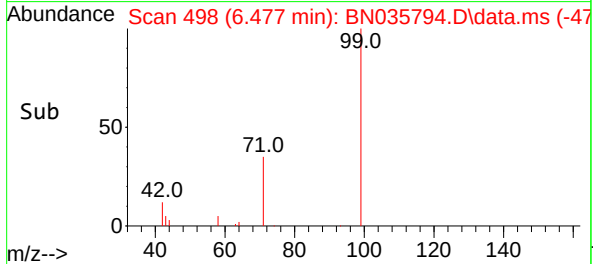
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 328
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 35.3 29.3 43.9

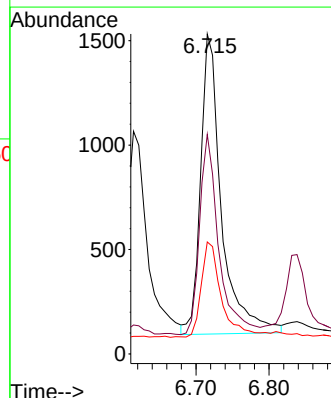
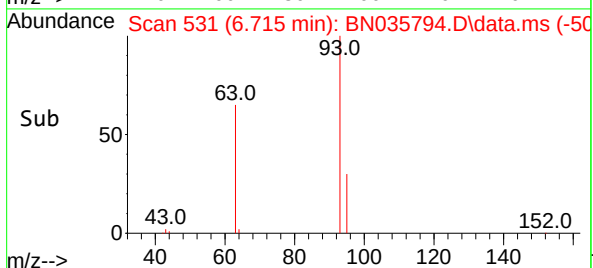
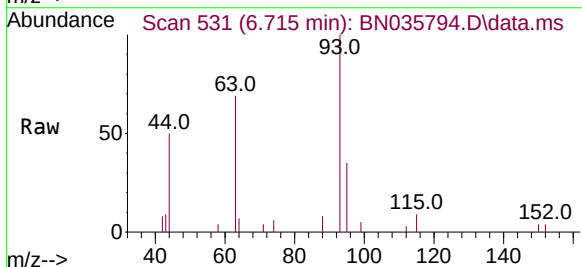
Manual Integrations
APPROVED

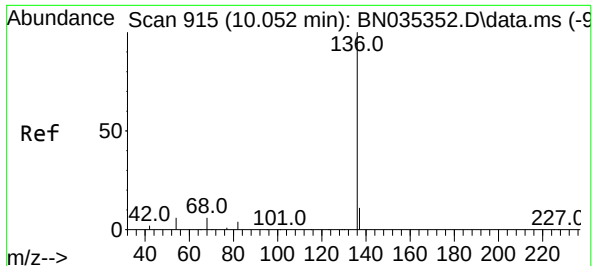
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.348 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

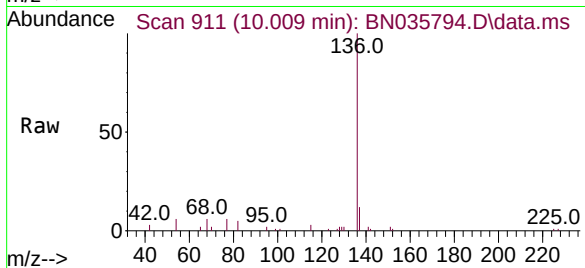
Tgt Ion: 93 Resp: 2845
Ion Ratio Lower Upper
93 100
63 61.5 50.4 75.6
95 30.1 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

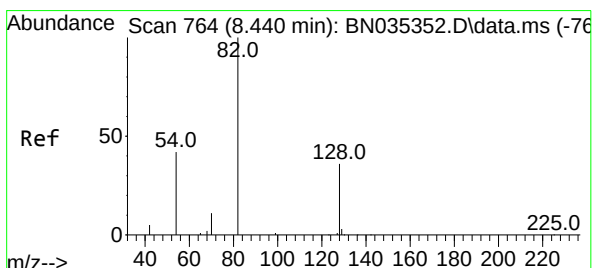
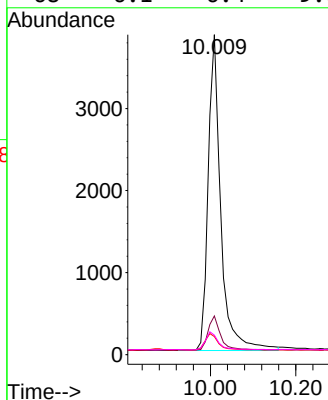
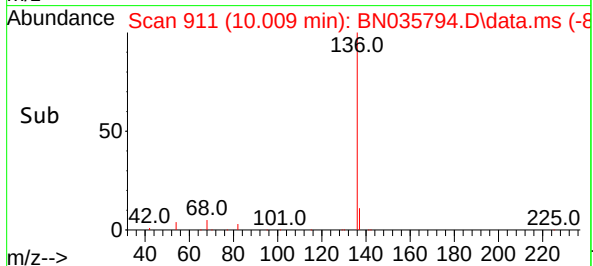
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 787
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 5.7 6.1 9.1
68 6.1 6.4 9.6#

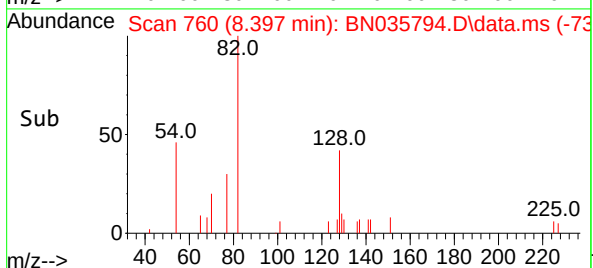
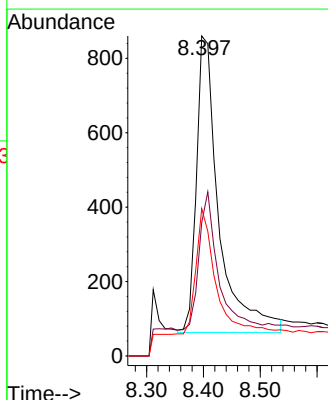
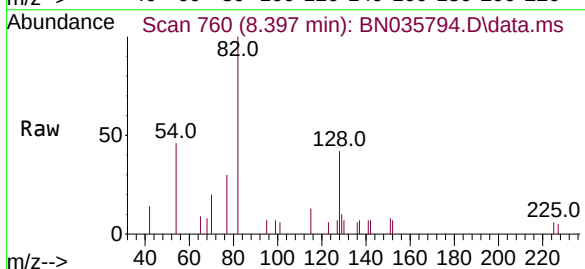
Manual Integrations
APPROVED

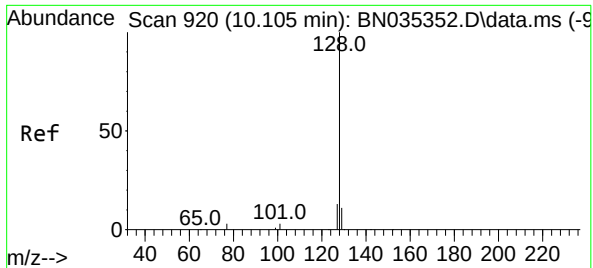
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.456 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

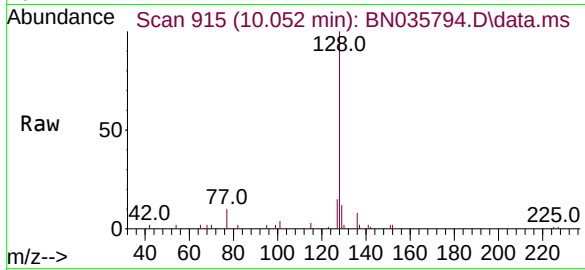
Tgt Ion: 82 Resp: 2193
Ion Ratio Lower Upper
82 100
128 41.6 33.4 50.0
54 46.0 36.7 55.1





#9
Naphthalene
Concen: 0.379 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

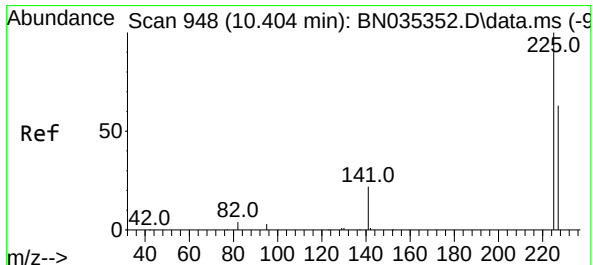
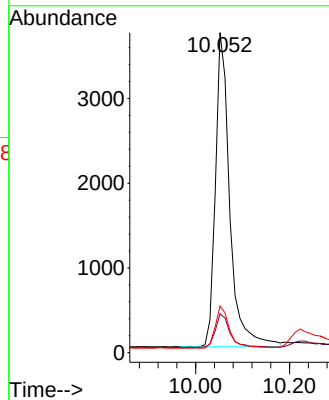
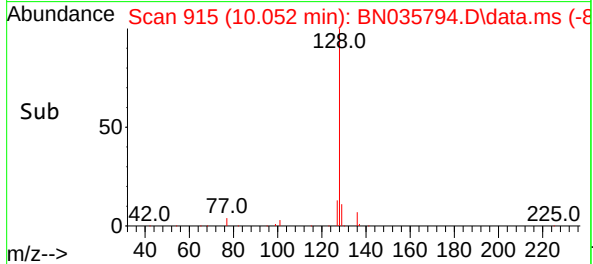
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 786
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.6 11.4 17.2

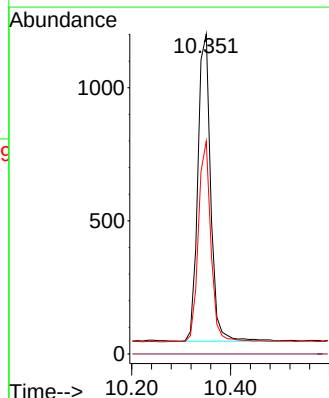
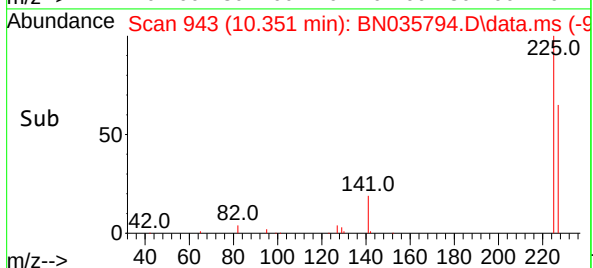
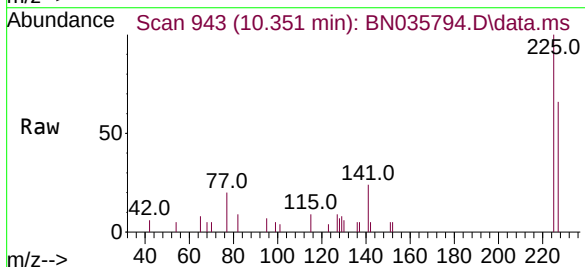
Manual Integrations
APPROVED

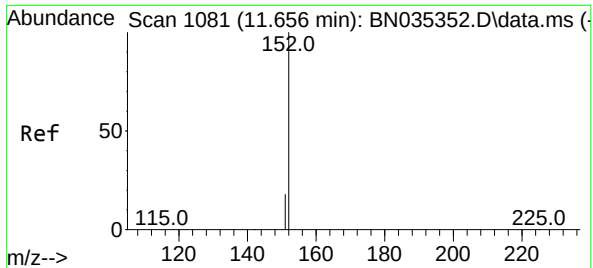
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

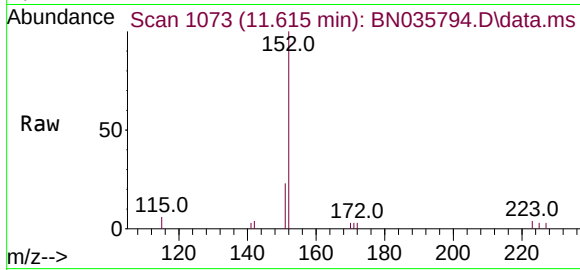
Tgt Ion:225 Resp: 2082
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.345 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

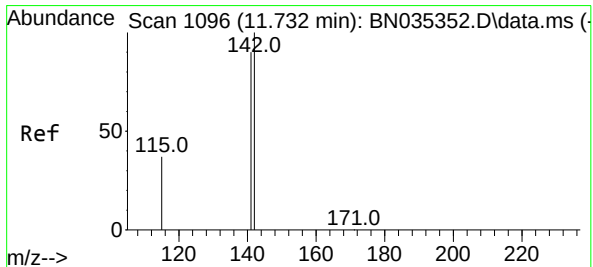
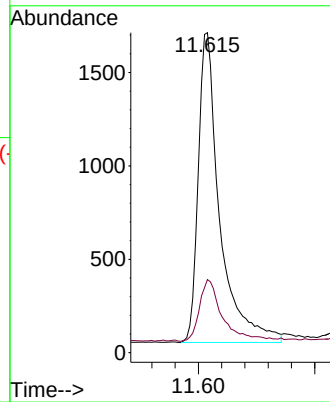
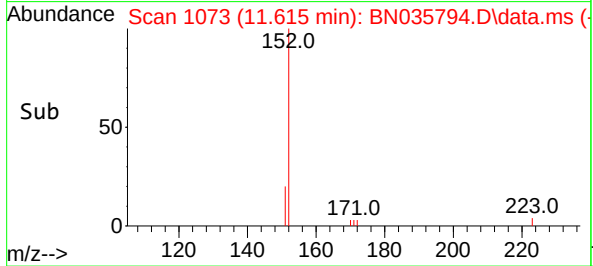
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 4254
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0

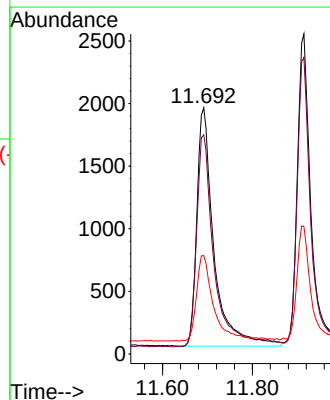
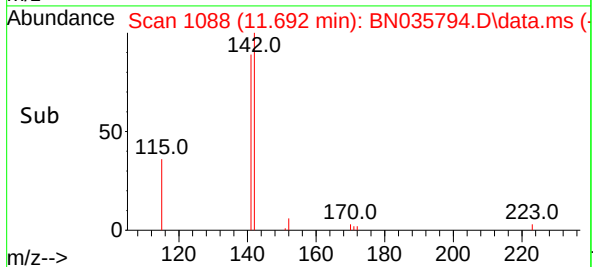
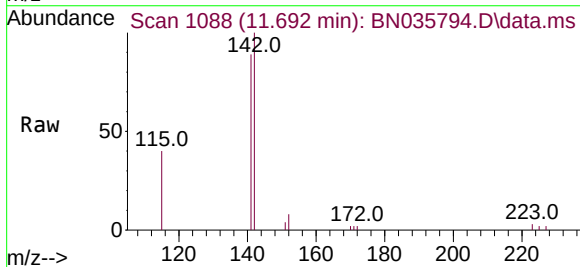
Manual Integrations
APPROVED

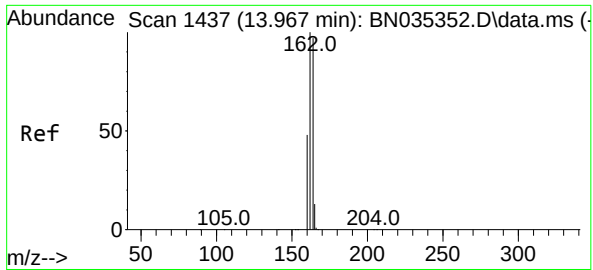
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:142 Resp: 5023
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 40.0 31.4 47.0





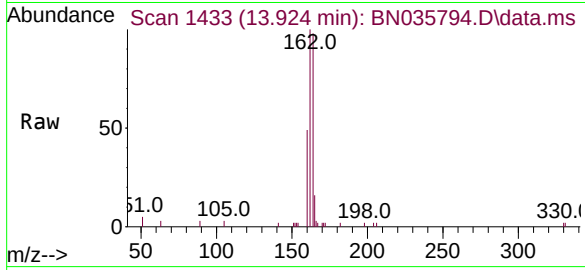
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



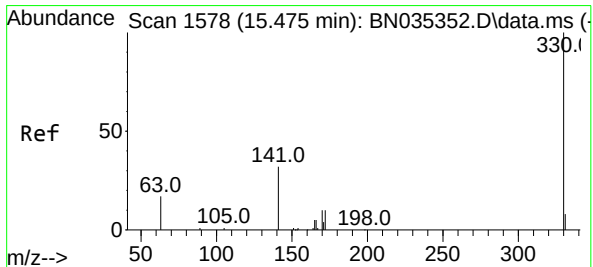
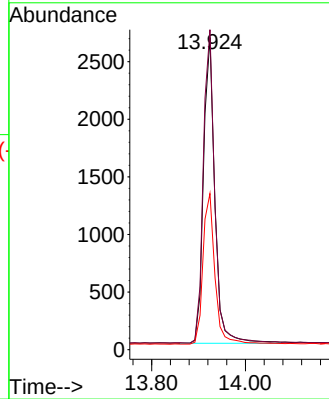
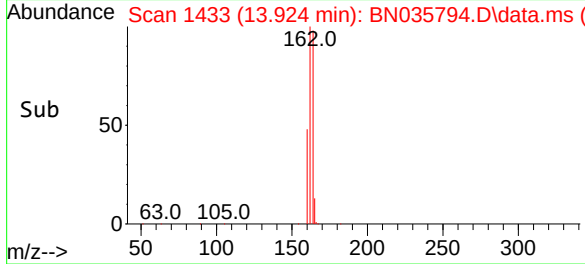
Tgt Ion:164 Resp: 448
Ion Ratio Lower Upper
164 100
162 102.4 82.2 123.2
160 50.0 40.1 60.1

Manual Integrations

APPROVED

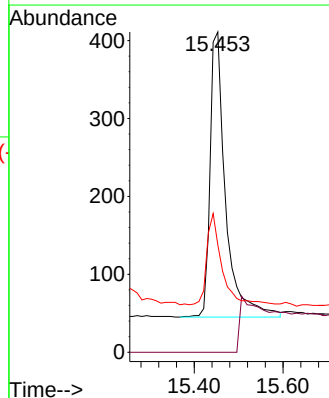
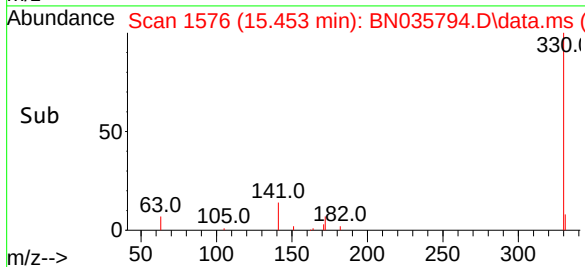
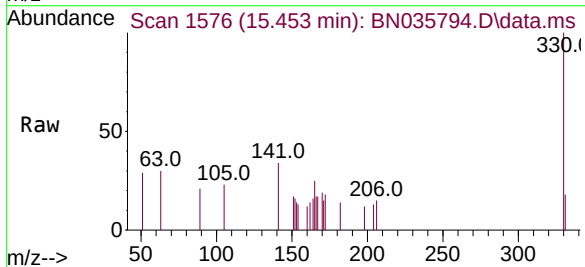
Reviewed By :Yogesh Patel 12/24/2024

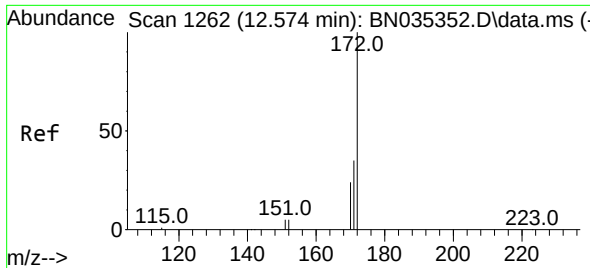
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:330 Resp: 932
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.8 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.538 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

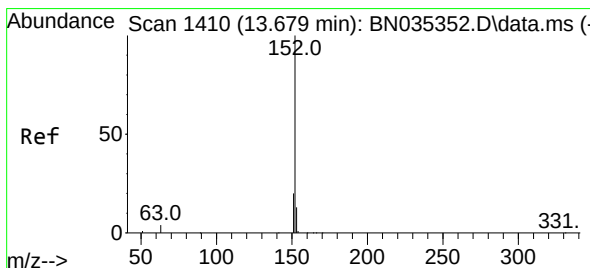
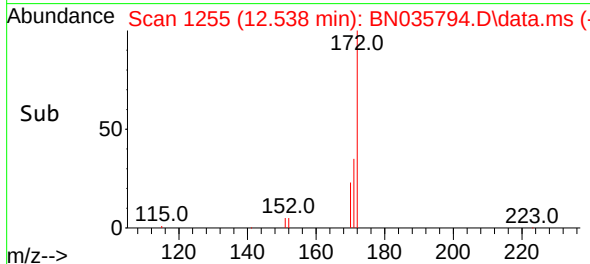
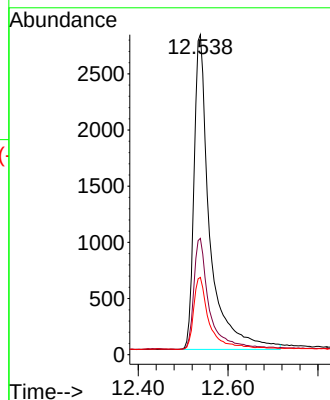
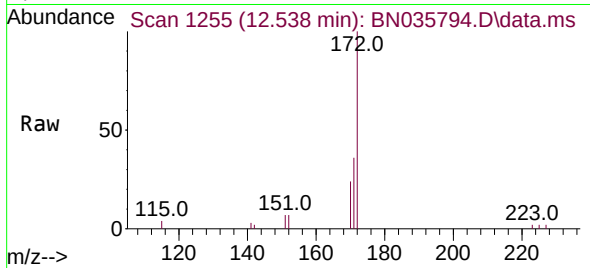
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.1	19.8	29.8

Manual Integrations

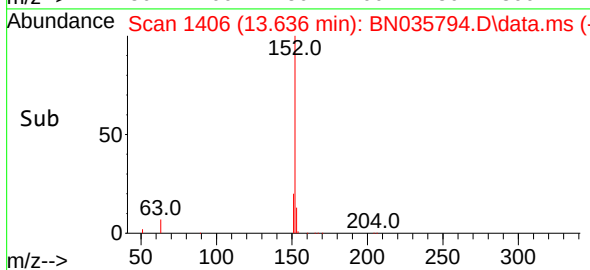
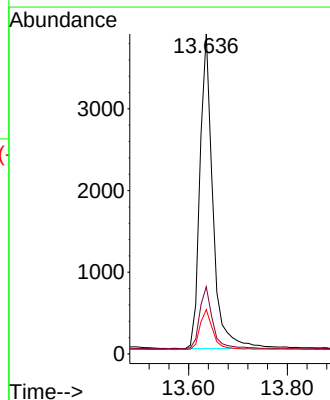
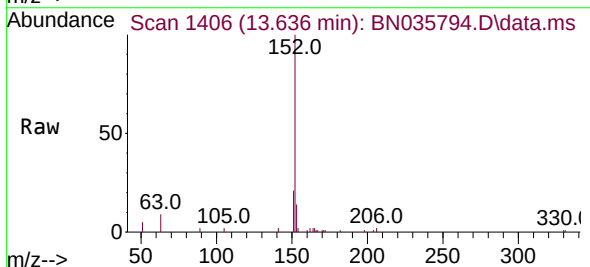
APPROVED

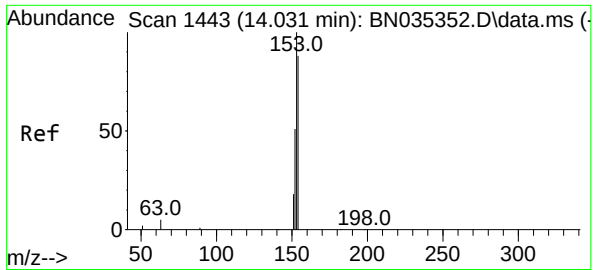
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

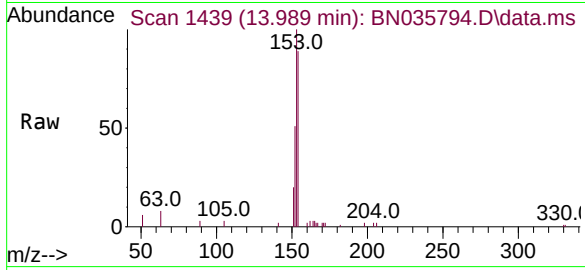
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	13.2	10.4	15.6





#17
Acenaphthene
Concen: 0.377 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

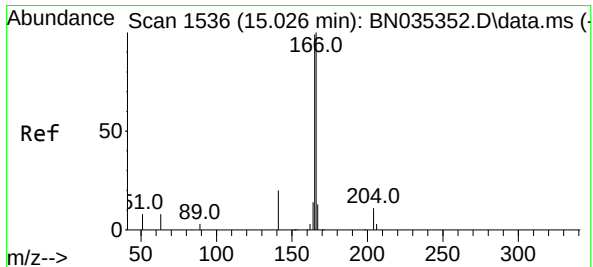
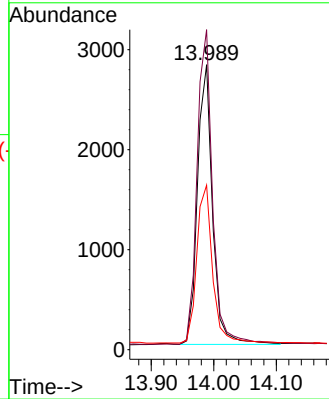
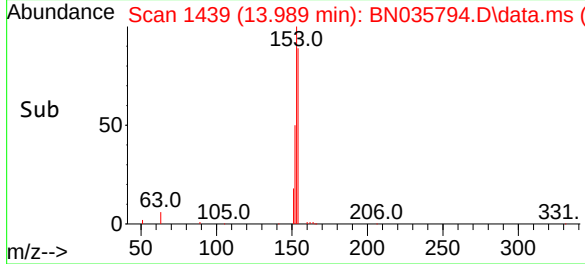
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 4714
Ion Ratio Lower Upper
154 100
153 115.7 92.6 139.0
152 59.2 49.0 73.6

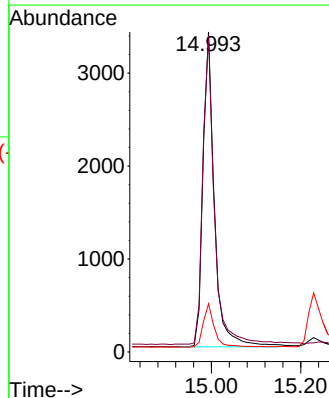
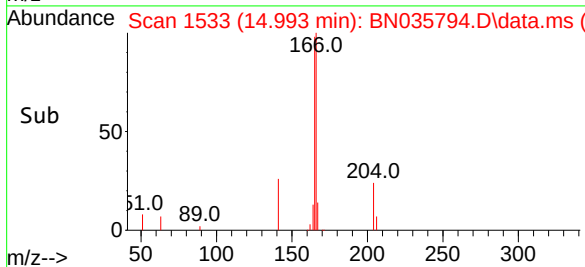
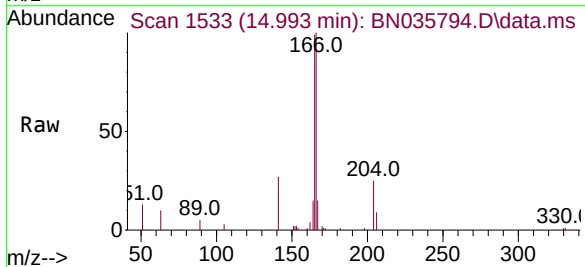
Manual Integrations
APPROVED

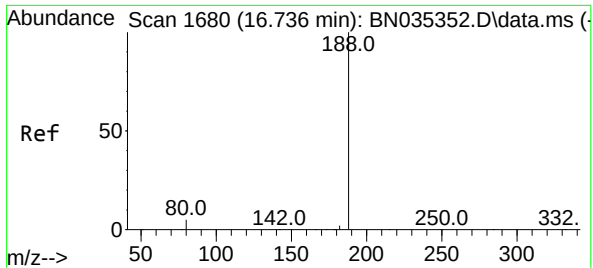
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.336 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

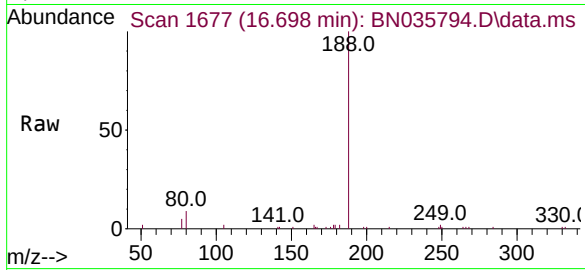
Tgt Ion:166 Resp: 6004
Ion Ratio Lower Upper
166 100
165 99.4 79.7 119.5
167 13.5 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

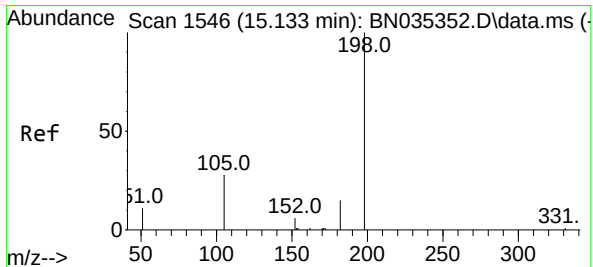
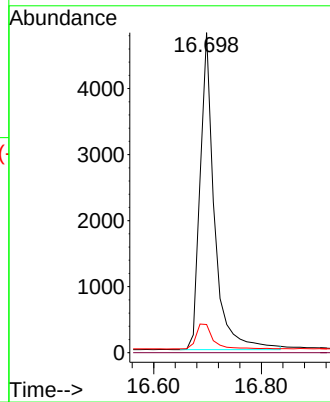
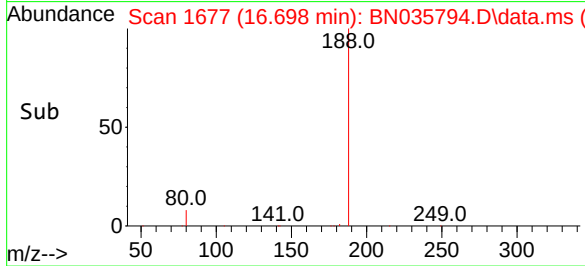
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 884
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 4.6 6.8

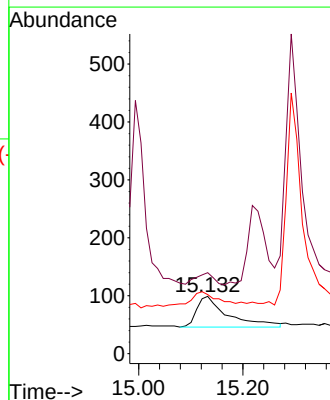
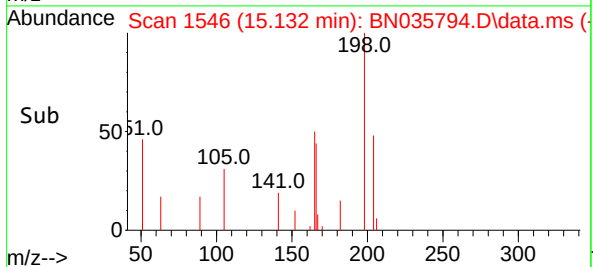
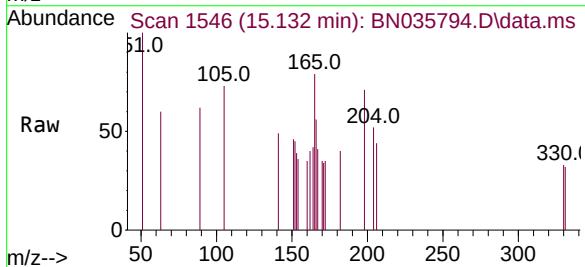
Manual Integrations
APPROVED

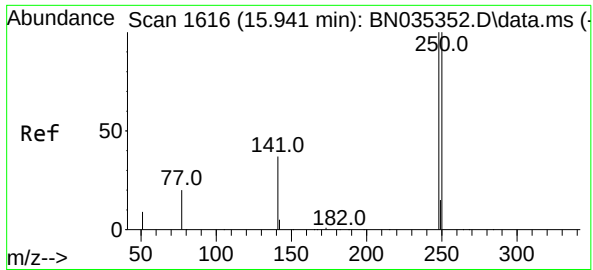
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.254 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

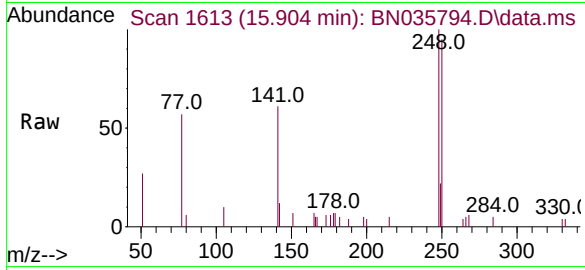
Tgt Ion:198 Resp: 221
Ion Ratio Lower Upper
198 100
51 141.4 46.5 69.7#
105 103.0 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

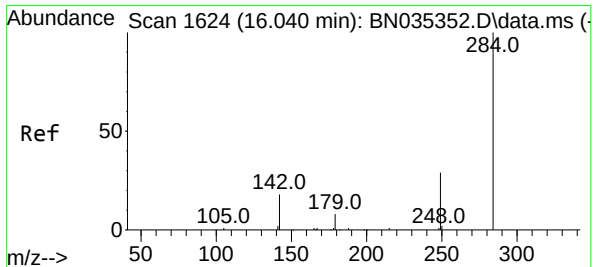
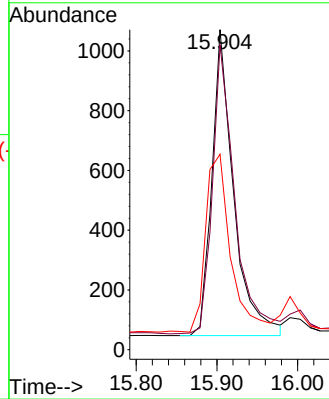
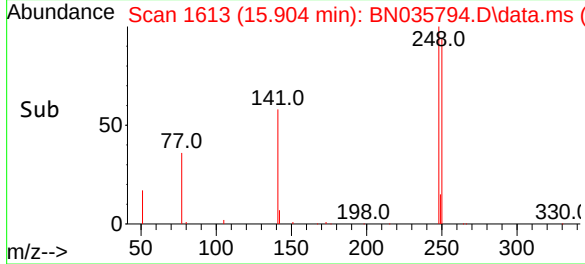
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 1918
Ion Ratio Lower Upper
248 100
250 95.3 80.6 120.8
141 61.1 31.5 47.3

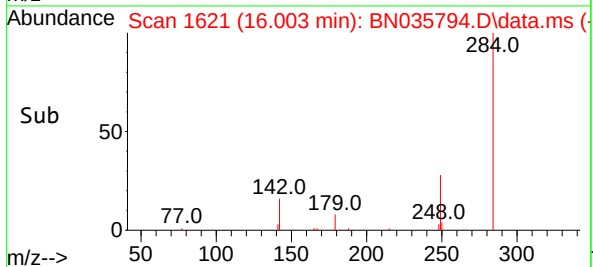
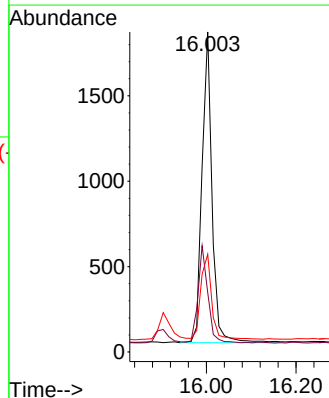
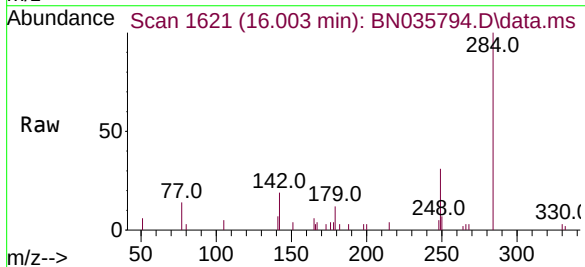
Manual Integrations
APPROVED

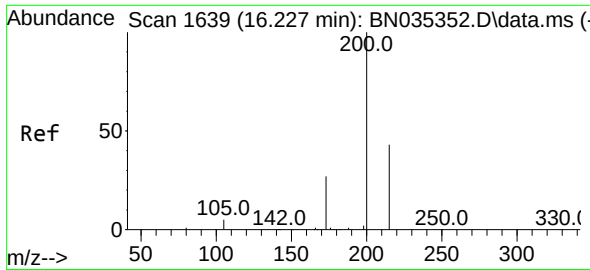
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.462 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

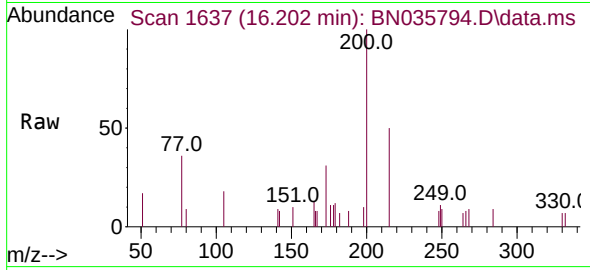
Tgt Ion:284 Resp: 2804
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 30.0 24.6 36.8





#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

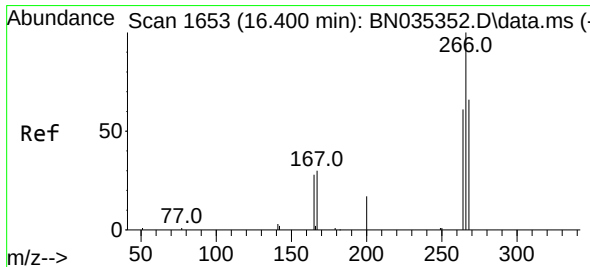
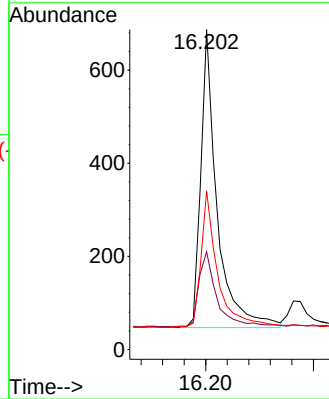
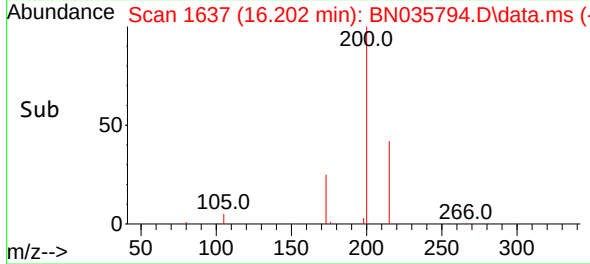
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1338
Ion Ratio Lower Upper
200 100
173 30.6 24.1 36.1
215 49.6 36.9 55.3

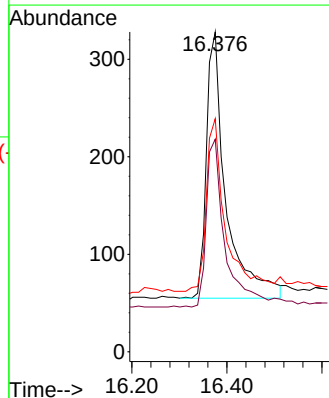
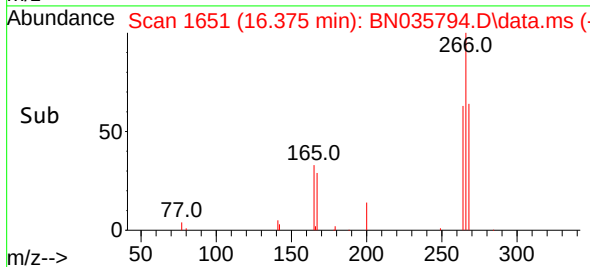
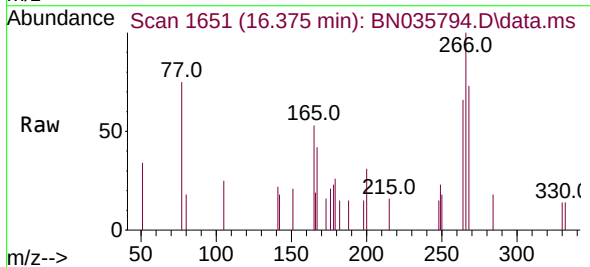
Manual Integrations
APPROVED

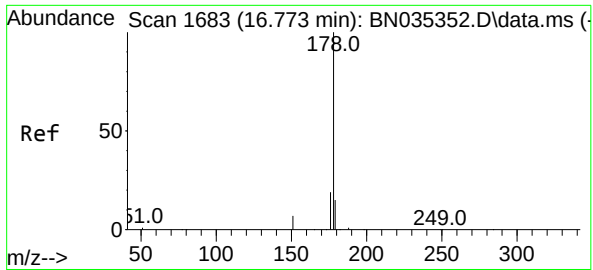
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.296 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:266 Resp: 783
Ion Ratio Lower Upper
266 100
264 62.1 42.3 63.5
268 63.6 43.3 64.9





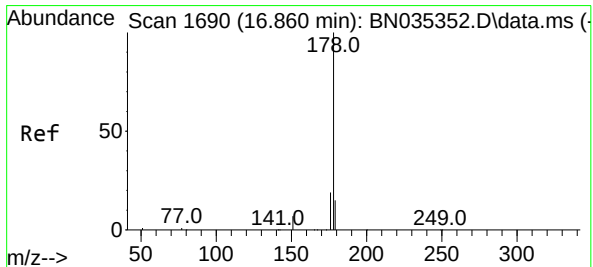
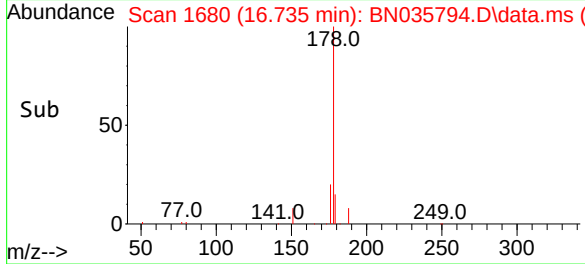
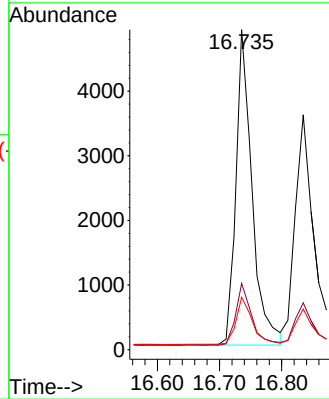
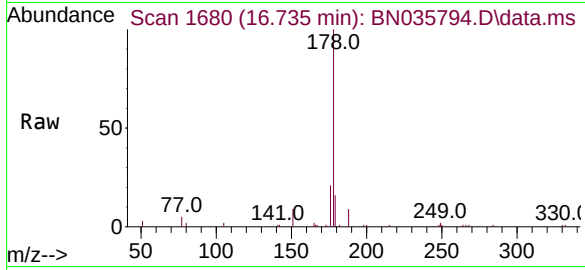
#25
Phenanthrene
Concen: 0.363 ng
RT: 16.735 min Scan# 1683
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 883
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5

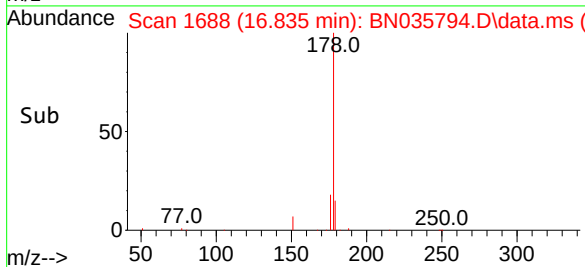
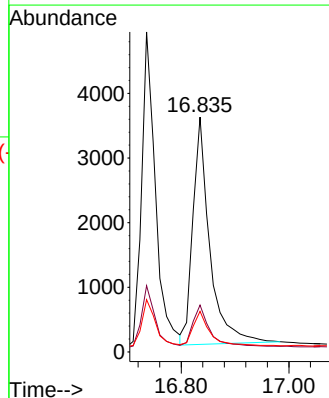
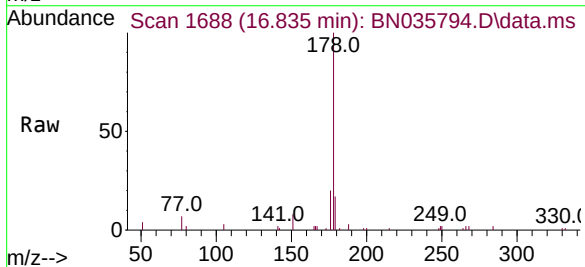
Manual Integrations
APPROVED

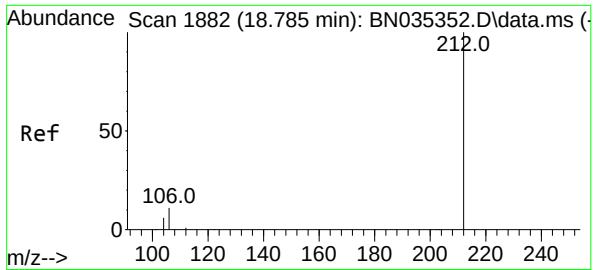
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.349 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 7665
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 18.752 min Scan# 1882
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

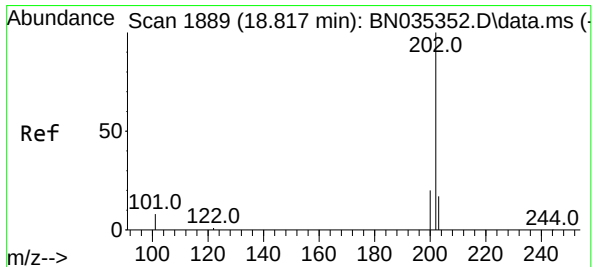
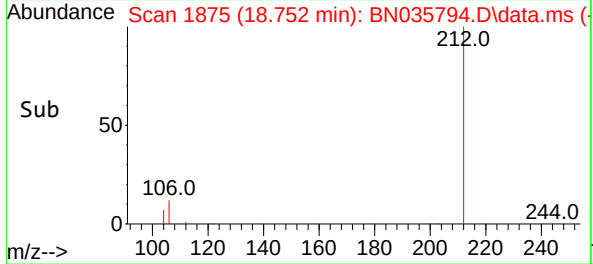
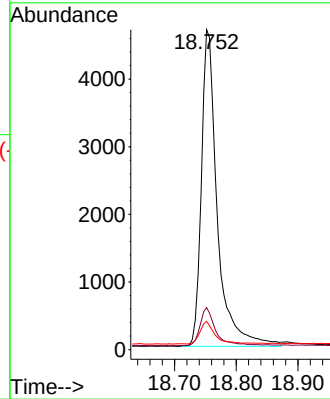
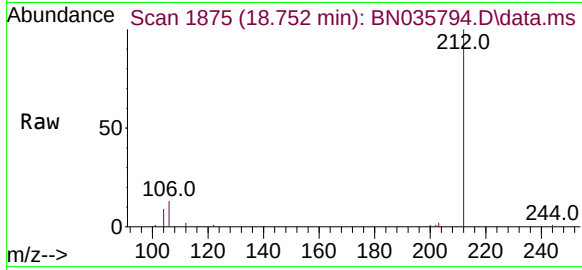
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.7	5.3	7.9

Manual Integrations

APPROVED

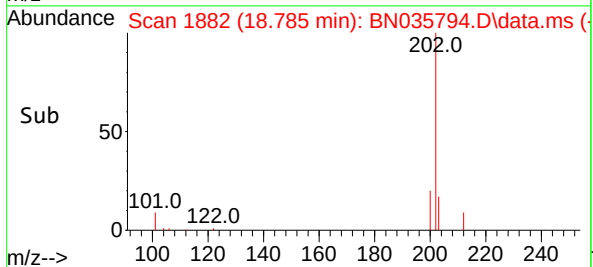
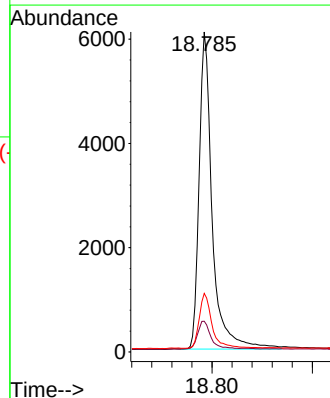
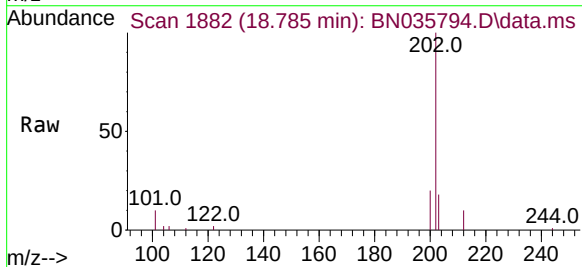
Reviewed By :Yogesh Patel 12/24/2024

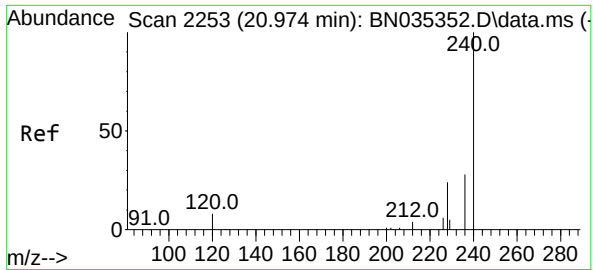
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.336 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.0	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

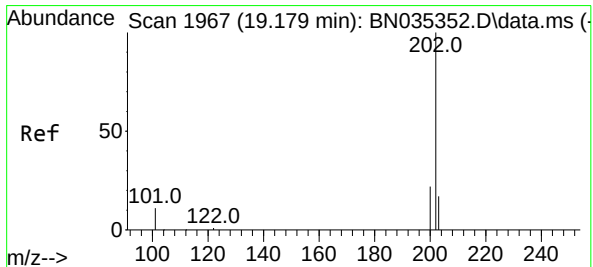
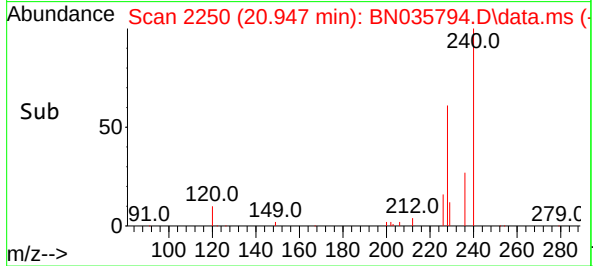
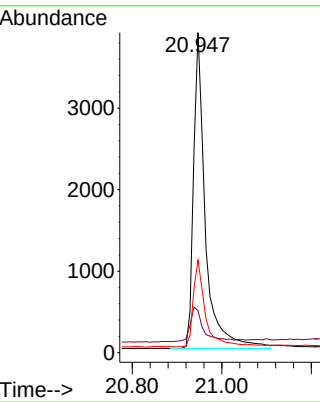
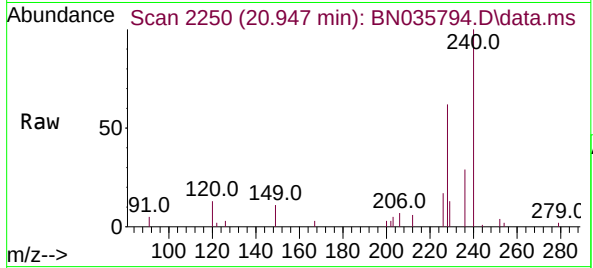
Tgt Ion:	240	Resp:	716
Ion Ratio	Lower	Upper	
240	100		
120	13.2	7.9	11.9
236	28.9	22.9	34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.425 ng

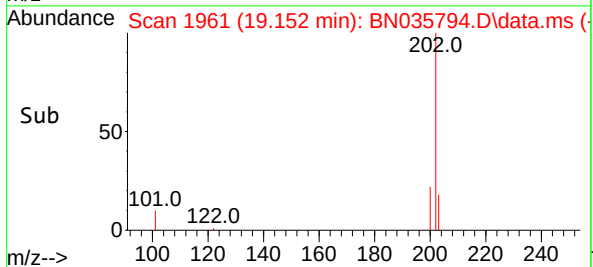
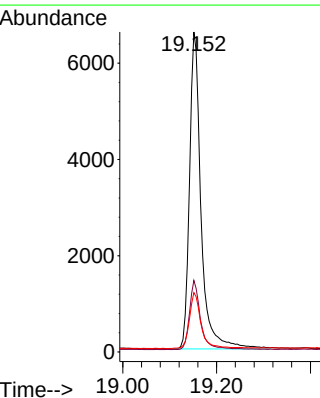
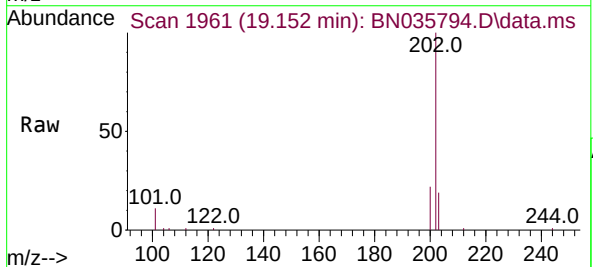
RT: 19.152 min Scan# 1961

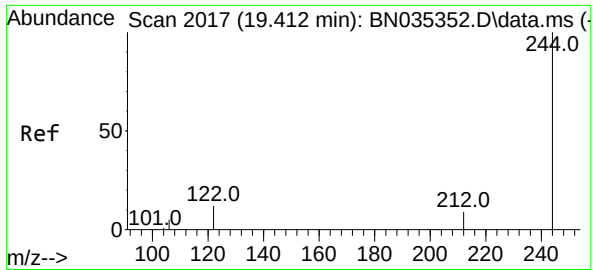
Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Tgt Ion:	202	Resp:	11228
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.0	25.4
203	17.7	14.3	21.5





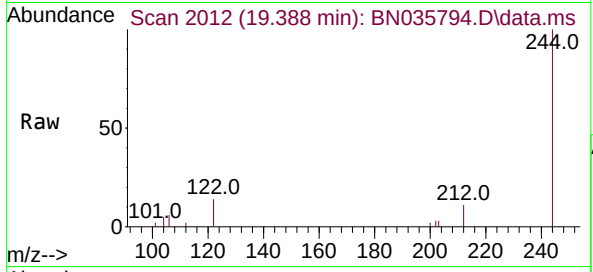
#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.388 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

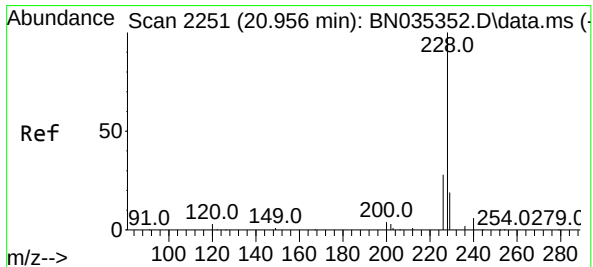
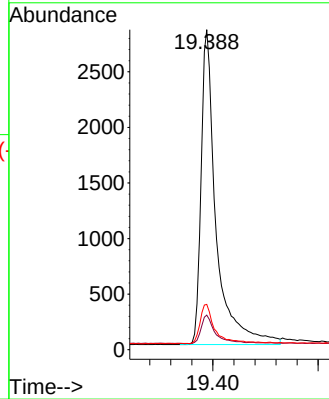
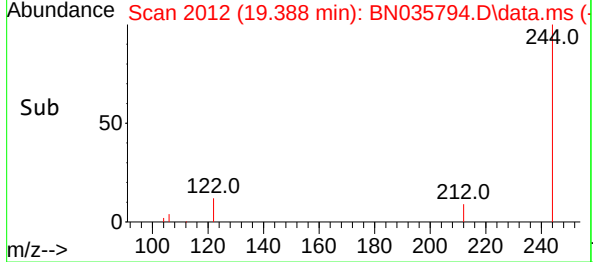


Tgt Ion:244 Resp: 5620
Ion Ratio Lower Upper
244 100
212 10.8 8.1 12.1
122 14.2 10.3 15.5

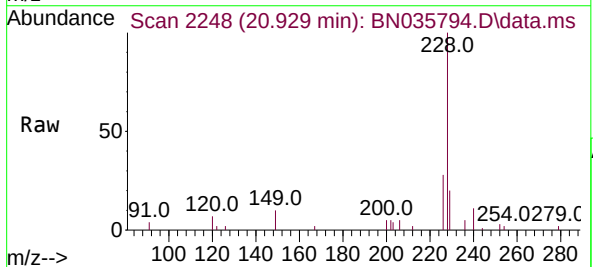
Manual Integrations

APPROVED

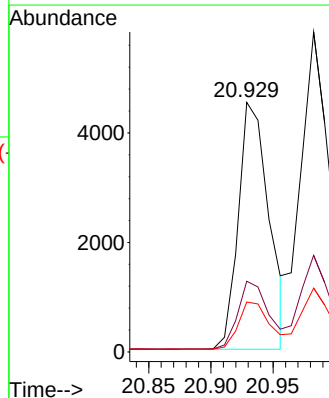
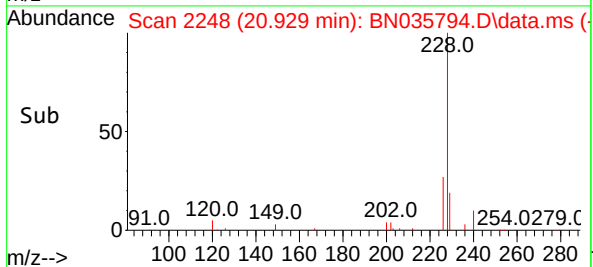
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

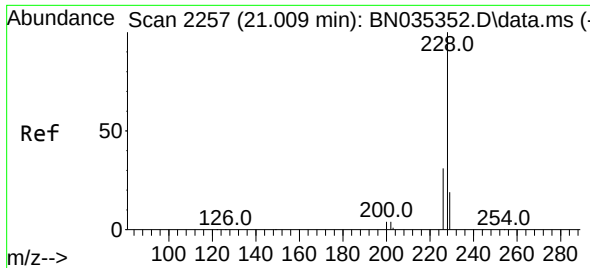


#32
Benzo(a)anthracene
Concen: 0.308 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16



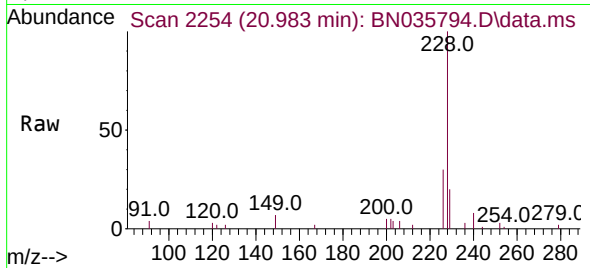
Tgt Ion:228 Resp: 7716
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 20.0 15.8 23.8





#33
Chrysene
Concen: 0.431 ng
RT: 20.983 min Scan# 21129
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

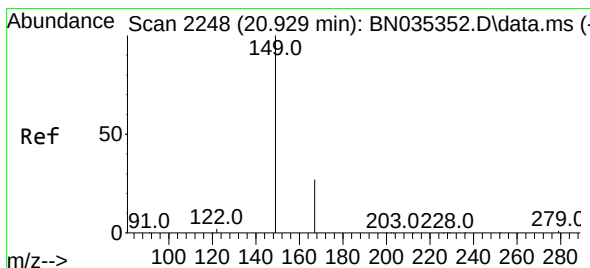
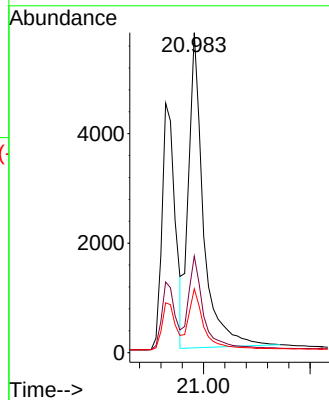
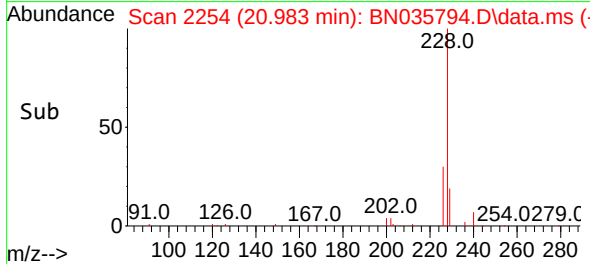
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 11129
Ion Ratio Lower Upper
228 100
226 30.2 24.6 37.0
229 19.9 15.9 23.9

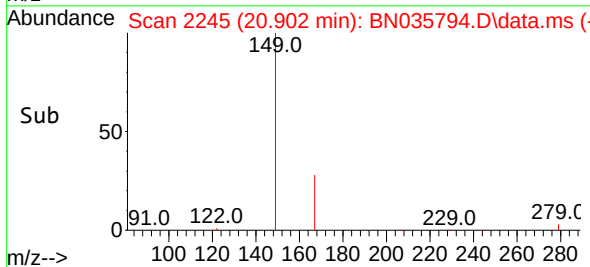
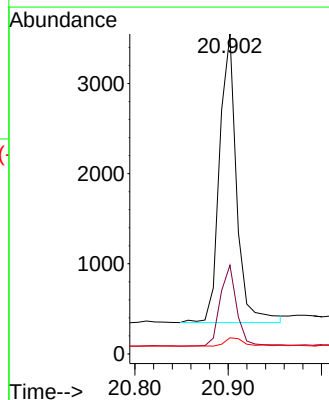
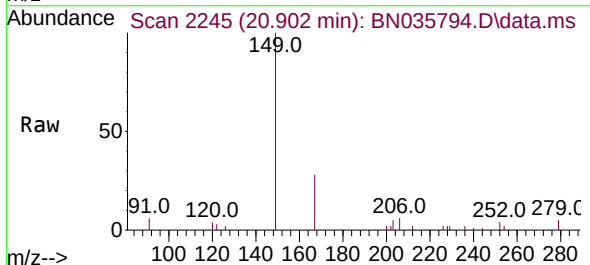
Manual Integrations
APPROVED

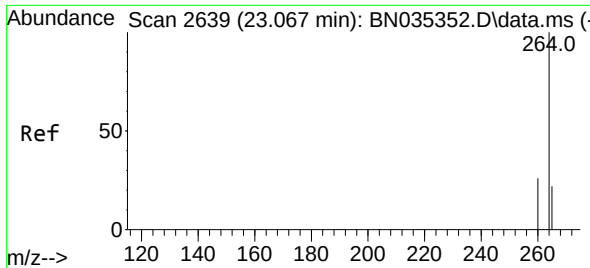
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.411 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:149 Resp: 4068
Ion Ratio Lower Upper
149 100
167 27.3 22.2 33.4
279 3.6 2.7 4.1





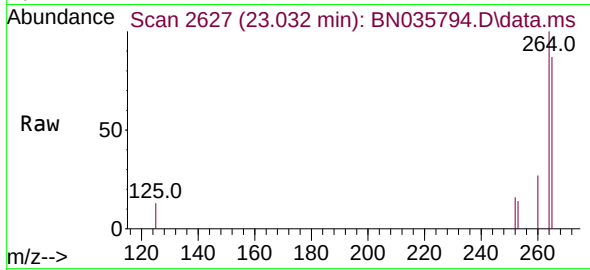
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



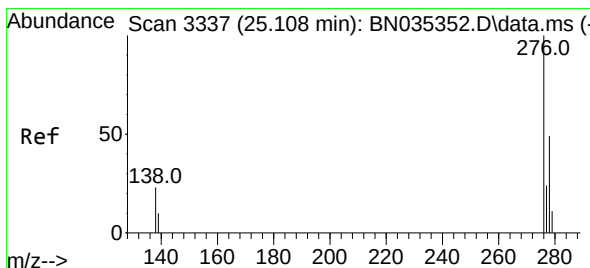
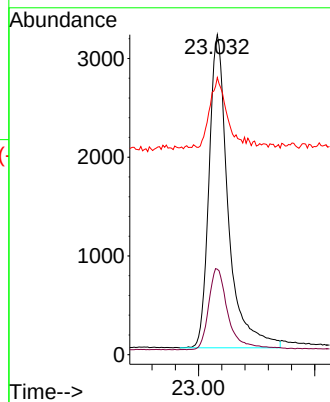
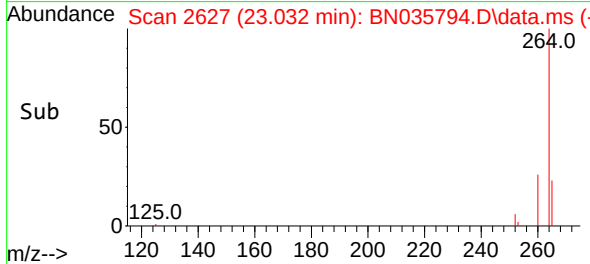
Tgt Ion:264 Resp: 727
Ion Ratio Lower Upper
264 100
260 26.7 21.4 32.2
265 86.6 40.2 60.4

Manual Integrations

APPROVED

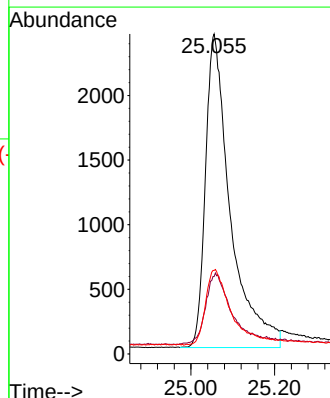
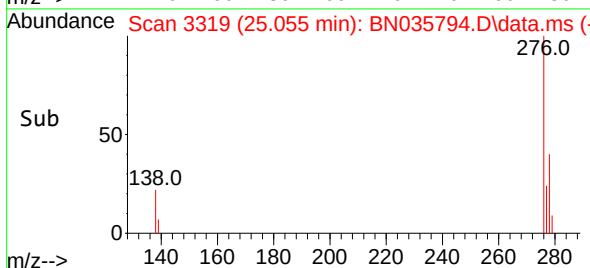
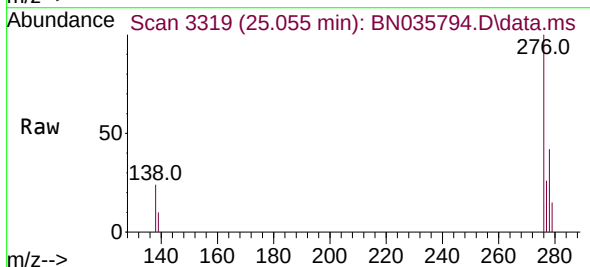
Reviewed By :Yogesh Patel 12/24/2024

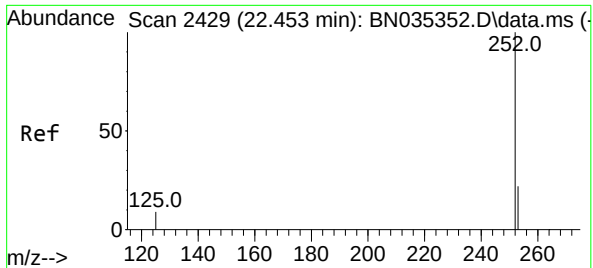
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.055 min Scan# 3319
Delta R.T. -0.012 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:276 Resp: 10012
Ion Ratio Lower Upper
276 100
138 22.3 19.4 29.0
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.533 ng

RT: 22.421 min Scan# 2418

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 1418

Ion Ratio Lower Upper

252 100

253 26.7 19.6 29.4

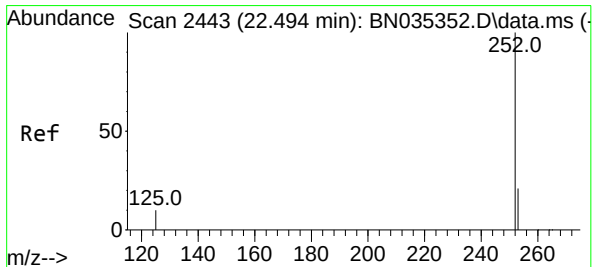
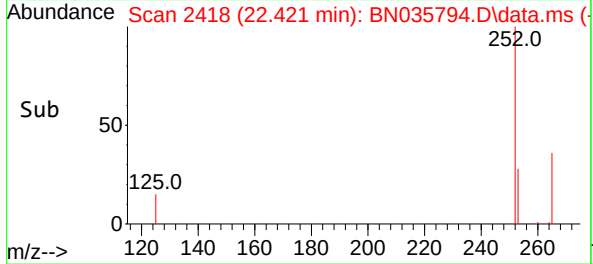
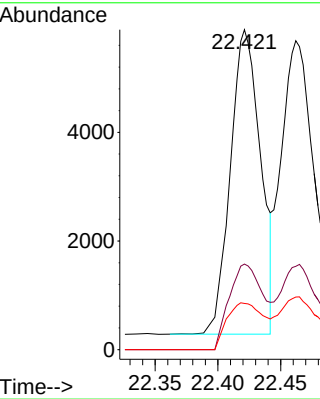
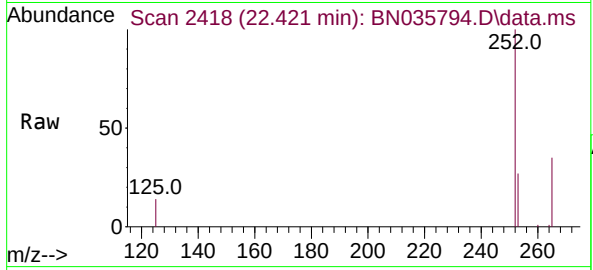
125 14.5 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.416 ng m

RT: 22.462 min Scan# 2432

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

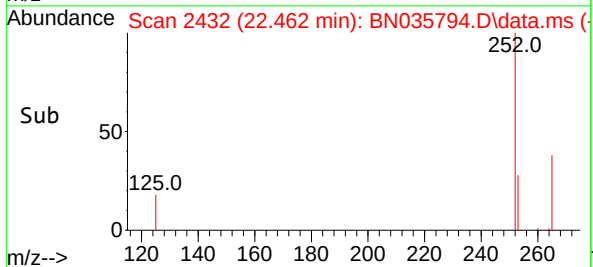
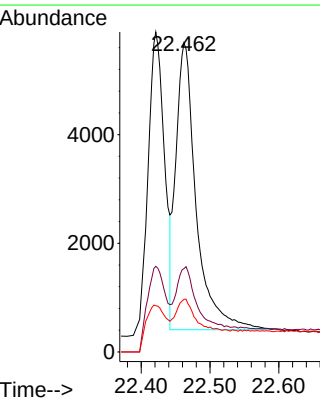
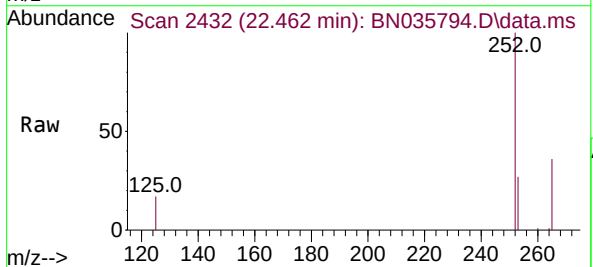
Tgt Ion:252 Resp: 10893

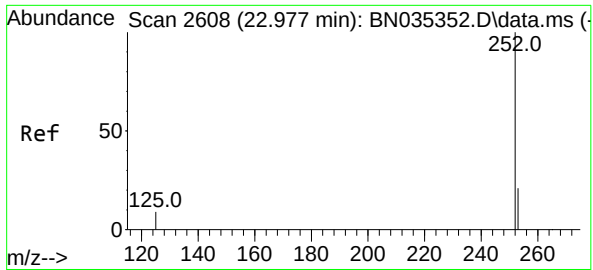
Ion Ratio Lower Upper

252 100

253 27.0 19.5 29.3

125 17.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 22.944 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035794.D

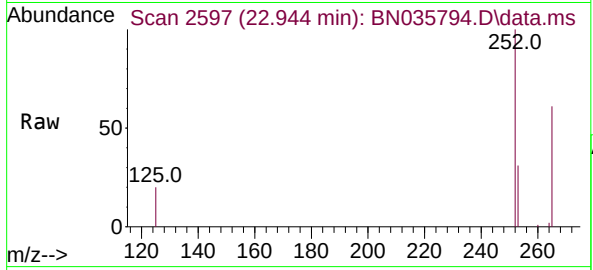
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 814

Ion Ratio Lower Upper

252 100

253 31.0 20.2 30.4

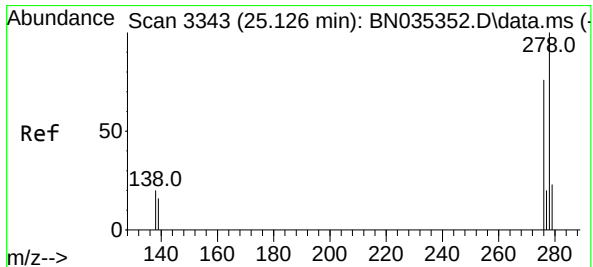
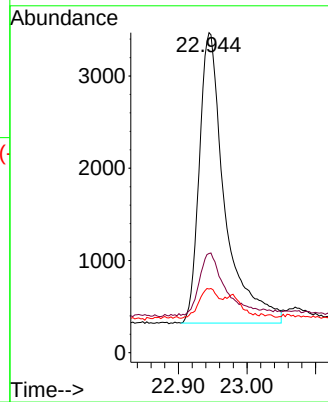
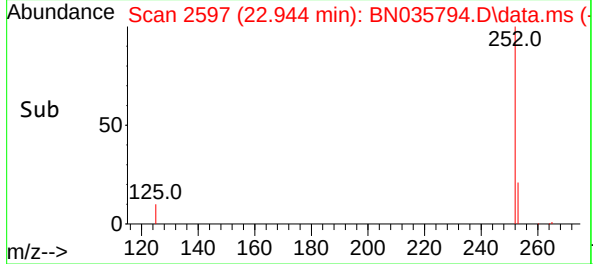
125 19.9 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

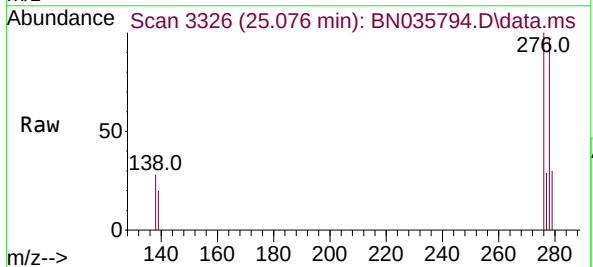
Concen: 0.333 ng

RT: 25.076 min Scan# 3326

Delta R.T. -0.006 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16



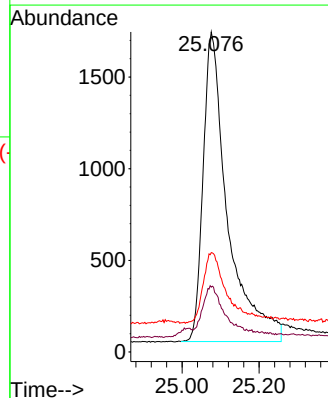
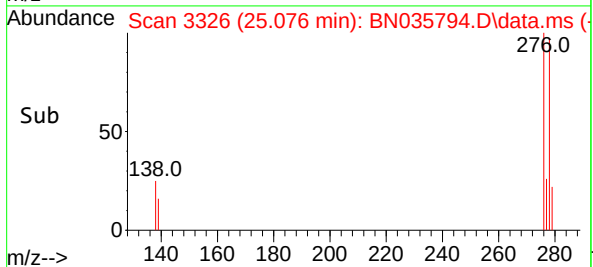
Tgt Ion:278 Resp: 7465

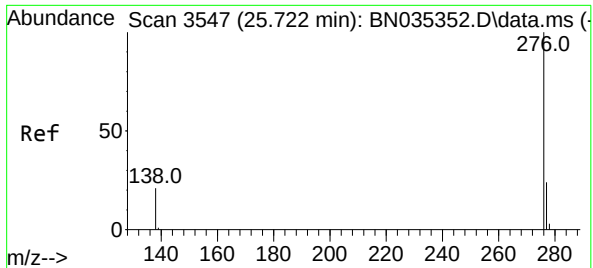
Ion Ratio Lower Upper

278 100

139 20.3 14.2 21.4

279 31.0 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.401 ng

RT: 25.663 min Scan# 3

Delta R.T. -0.015 min

Lab File: BN035794.D

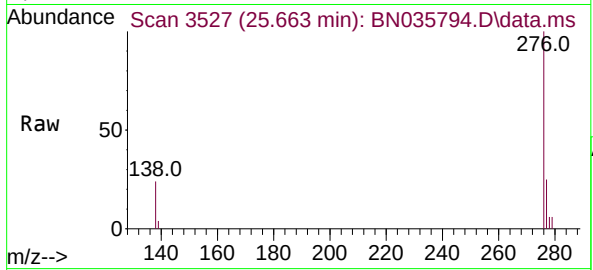
Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 9418

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

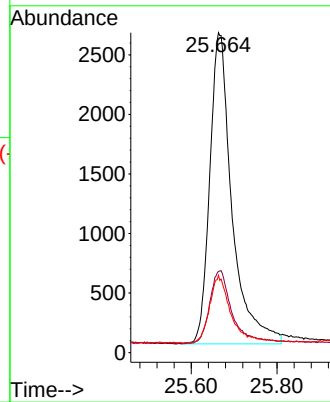
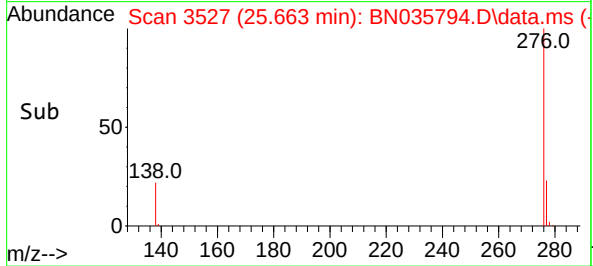
138 24.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035794.D
 Acq On : 23 Dec 2024 22:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158#	0.00
2	1,4-Dioxane	0.382	0.419	-9.7	176#	0.00
3	n-Nitrosodimethylamine	0.319	0.325	-1.9	157#	0.00
4 S	2-Fluorophenol	1.001	0.924	7.7	143	0.00
5 S	Phenol-d6	1.204	1.016	15.6	134	-0.01
6	bis(2-Chloroethyl)ether	1.012	0.880	13.0	140	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	151#	-0.01
8 S	Nitrobenzene-d5	0.244	0.278	-13.9	179#	-0.01
9	Naphthalene	1.055	0.998	5.4	144	-0.01
10	Hexachlorobutadiene	0.243	0.264	-8.6	161#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.540	13.7	131	0.00
12	2-Methylnaphthalene	0.755	0.638	15.5	130	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.208	26.8#	96	0.00
15 S	2-Fluorobiphenyl	1.512	1.529	-1.1	120	0.00
16	Acenaphthylene	1.680	1.560	7.1	115	-0.01
17	Acenaphthene	1.115	1.052	5.7	114	-0.01
18	Fluorene	1.596	1.340	16.0	102	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.025	35.9#	66	0.01
21	4-Bromophenyl-phenylether	0.234	0.217	7.3	89	-0.01
22	Hexachlorobenzene	0.275	0.317	-15.3	108	-0.01
23	Atrazine	0.167	0.151	9.6	92	0.00
24	Pentachlorophenol	0.120	0.089	25.8#	86	0.00
25	Phenanthrene	1.099	0.998	9.2	87	-0.01
26	Anthracene	0.994	0.867	12.8	86	0.00
27 SURR	Fluoranthene-d10	1.134	0.950	16.2	82	0.00
28	Fluoranthene	1.481	1.244	16.0	82	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	75	0.00
30	Pyrene	1.477	1.567	-6.1	80	0.00
31 S	Terphenyl-d14	0.789	0.785	0.5	75	0.00
32	Benzo(a)anthracene	1.399	1.077	23.0	60	0.00
33	Chrysene	1.443	1.554	-7.7	81	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.568	-2.7	83	0.00
35 I	Perylene-d12	1.000	1.000	0.0	67	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.376	12.0	60	-0.01
37	Benzo(b)fluoranthene	1.463	1.950	-33.3#	100	0.00
38	Benzo(k)fluoranthene	1.440	1.497	-4.0	72	0.00
39 C	Benzo(a)pyrene	1.205	1.119	7.1	66	0.00
40	Dibenzo(a,h)anthracene	1.234	1.026	16.9	58	0.00
41	Benzo(g,h,i)perylene	1.289	1.294	-0.4	70	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035794.D
 Acq On : 23 Dec 2024 22:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	158	0.00
2	1,4-Dioxane	0.400	0.438	-9.5	176	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	157	0.00
4 S	2-Fluorophenol	0.400	0.369	7.8	143	0.00
5 S	Phenol-d6	0.400	0.338	15.5	134	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.348	13.0	140	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	151	-0.01
8 S	Nitrobenzene-d5	0.400	0.456	-14.0	179	-0.01
9	Naphthalene	0.400	0.379	5.3	144	-0.01
10	Hexachlorobutadiene	0.400	0.434	-8.5	161	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.345	13.8	131	0.00
12	2-Methylnaphthalene	0.400	0.338	15.5	130	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.293	26.8#	96	0.00
15 S	2-Fluorobiphenyl	0.400	0.405	-1.3	120	0.00
16	Acenaphthylene	0.400	0.372	7.0	115	-0.01
17	Acenaphthene	0.400	0.377	5.8	114	-0.01
18	Fluorene	0.400	0.336	16.0	102	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.254	36.5#	66	0.01
21	4-Bromophenyl-phenylether	0.400	0.371	7.3	89	-0.01
22	Hexachlorobenzene	0.400	0.462	-15.5	108	-0.01
23	Atrazine	0.400	0.363	9.3	92	0.00
24	Pentachlorophenol	0.400	0.296	26.0#	86	0.00
25	Phenanthrene	0.400	0.363	9.3	87	-0.01
26	Anthracene	0.400	0.349	12.8	86	0.00
27 SURR	Fluoranthene-d10	0.400	0.335	16.3	82	0.00
28	Fluoranthene	0.400	0.336	16.0	82	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	75	0.00
30	Pyrene	0.400	0.425	-6.2	80	0.00
31 S	Terphenyl-d14	0.400	0.398	0.5	75	0.00
32	Benzo(a)anthracene	0.400	0.308	23.0	60	0.00
33	Chrysene	0.400	0.431	-7.7	81	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.411	-2.7	83	0.00
35 I	Perylene-d12	0.400	0.400	0.0	67	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.352	12.0	60	-0.01
37	Benzo(b)fluoranthene	0.400	0.533	-33.3#	100	0.00
38	Benzo(k)fluoranthene	0.400	0.416	-4.0	72	0.00
39 C	Benzo(a)pyrene	0.400	0.371	7.3	66	0.00
40	Dibenzo(a,h)anthracene	0.400	0.333	16.8	58	0.00
41	Benzo(g,h,i)perylene	0.400	0.401	-0.3	70	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG No.: P5282

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 07:09

Lab File ID: BN035809.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.563		-10.1	50.0
Fluoranthene-d10	1.134	0.947		-16.5	50.0
2-Fluorophenol	1.001	0.946		-5.5	50.0
Phenol-d6	1.204	1.086		-9.8	50.0
Nitrobenzene-d5	0.244	0.307		25.8	50.0
2-Fluorobiphenyl	1.512	1.535		1.5	50.0
2,4,6-Tribromophenol	0.284	0.224		-21.1	50.0
Terphenyl-d14	0.789	0.817		3.5	50.0
1,4-Dioxane	0.382	0.382		0.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035809.D
 Acq On : 24 Dec 2024 07:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 07:43:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	8362	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	20753	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	12456	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	24922	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	20198	0.400	ng	0.00
35) Perylene-d12	23.026	264	21431	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	7909	0.378	ng	-0.01
5) Phenol-d6	6.470	99	9085	0.361	ng	-0.02
8) Nitrobenzene-d5	8.397	82	6379m	0.503	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	11679	0.360	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	2792	0.316	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	19125	0.406	ng	-0.02
27) Fluoranthene-d10	18.747	212	23606	0.334	ng	-0.01
31) Terphenyl-d14	19.379	244	16501	0.414	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	3198	0.400	ng	100
3) n-Nitrosodimethylamine	3.263	42	2673	0.401	ng	# 88
6) bis(2-Chloroethyl)ether	6.716	93	7863	0.372	ng	99
9) Naphthalene	10.052	128	21064	0.385	ng	98
10) Hexachlorobutadiene	10.340	225	5424	0.430	ng	# 100
12) 2-Methylnaphthalene	11.682	142	13794	0.352	ng	98
16) Acenaphthylene	13.625	152	19447	0.372	ng	99
17) Acenaphthene	13.978	154	13250	0.382	ng	99
18) Fluorene	14.983	166	17299	0.348	ng	99
20) 4,6-Dinitro-2-methylph...	15.101	198	892	0.364	ng	99
21) 4-Bromophenyl-phenylether	15.892	248	5717	0.392	ng	# 72
22) Hexachlorobenzene	15.991	284	7638	0.446	ng	97
23) Atrazine	16.189	200	3955	0.381	ng	99
24) Pentachlorophenol	16.363	266	2368	0.318	ng	# 86
25) Phenanthrene	16.736	178	25787	0.377	ng	100
26) Anthracene	16.822	178	22279	0.360	ng	99
28) Fluoranthene	18.780	202	31096	0.337	ng	100
30) Pyrene	19.147	202	32211	0.432	ng	100
32) Benzo(a)anthracene	20.929	228	25428	0.360	ng	99
33) Chrysene	20.983	228	29722	0.408	ng	98
34) Bis(2-ethylhexyl)phtha...	20.902	149	11220	0.402	ng	99
36) Indeno(1,2,3-cd)pyrene	25.047	276	32558	0.389	ng	100
37) Benzo(b)fluoranthene	22.418	252	43862	0.559	ng	98
38) Benzo(k)fluoranthene	22.459	252	32848	0.426	ng	97
39) Benzo(a)pyrene	22.939	252	23952	0.371	ng	100
40) Dibenzo(a,h)anthracene	25.064	278	24090	0.364	ng	99
41) Benzo(g,h,i)perylene	25.658	276	28353	0.410	ng	99

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

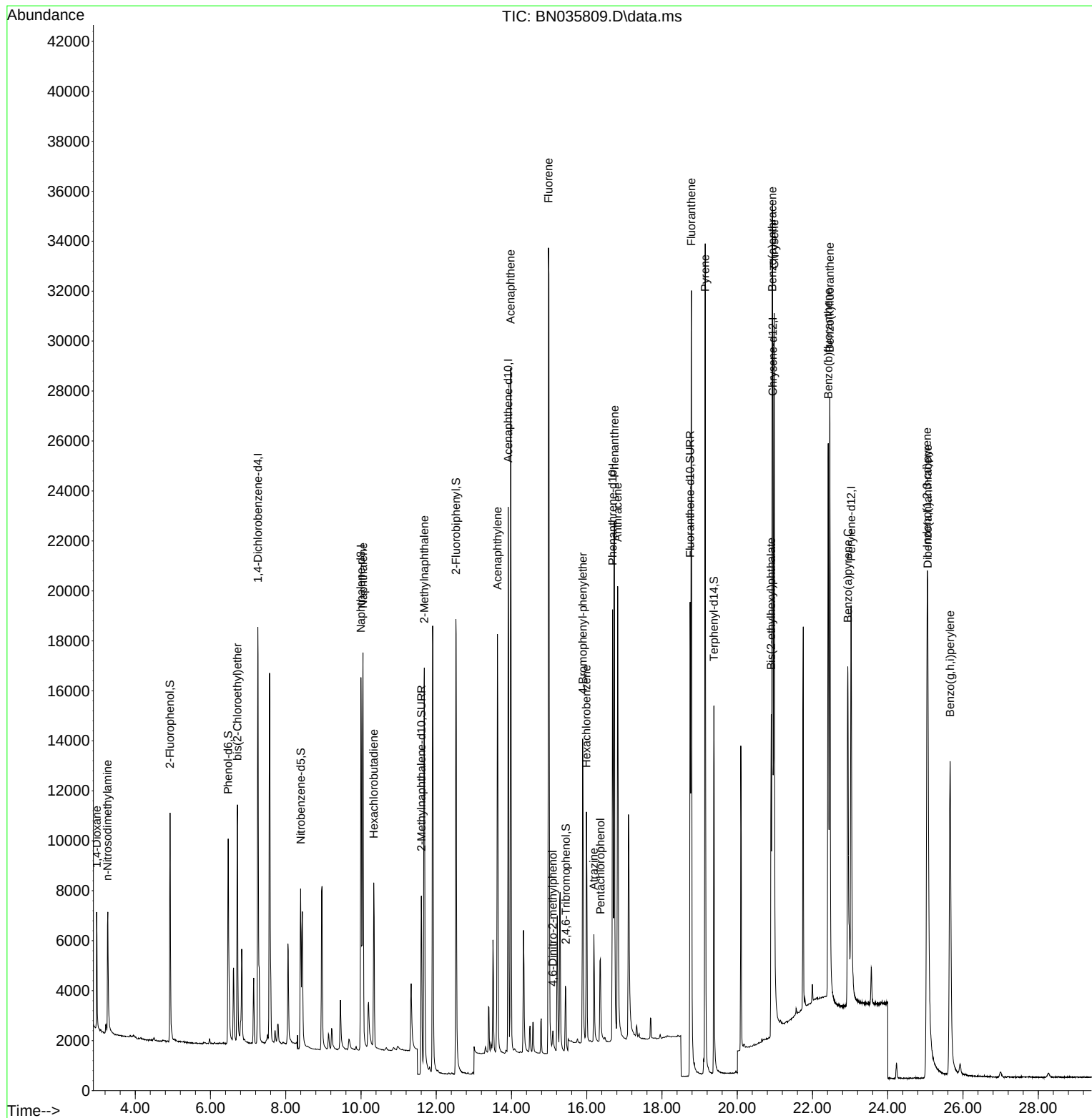
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035809.D
 Acq On : 24 Dec 2024 07:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

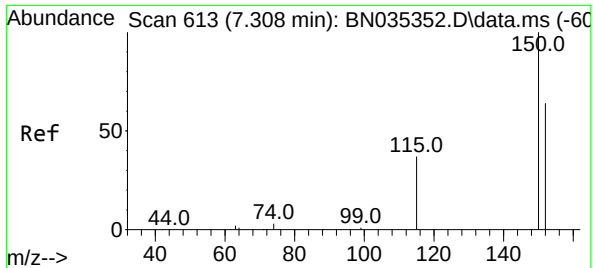
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

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

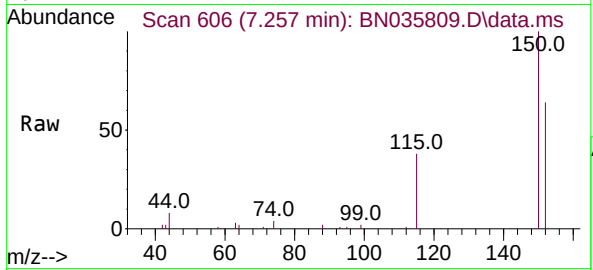
Quant Time: Dec 24 07:43:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

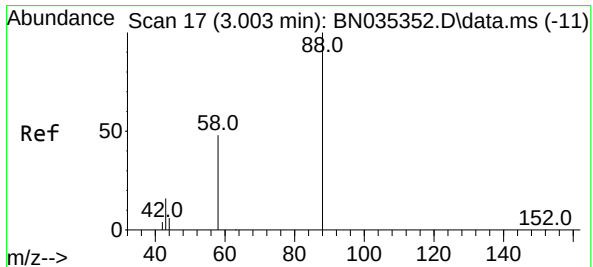
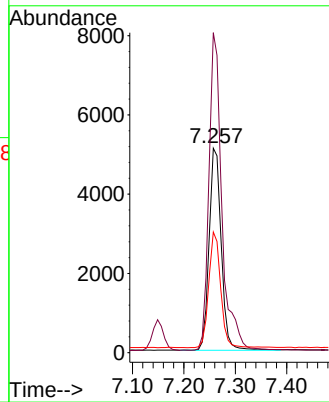
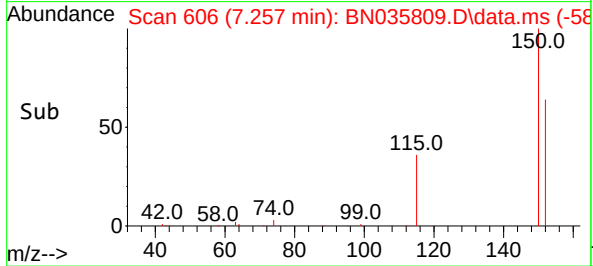
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 836
Ion Ratio Lower Upper
152 100
150 156.5 124.0 186.0
115 59.0 49.6 74.4

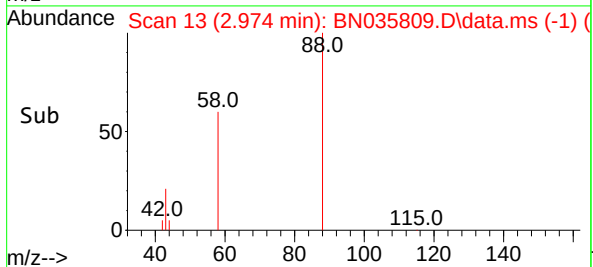
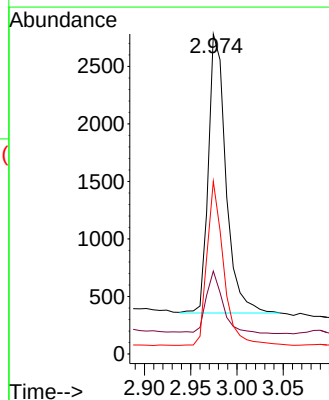
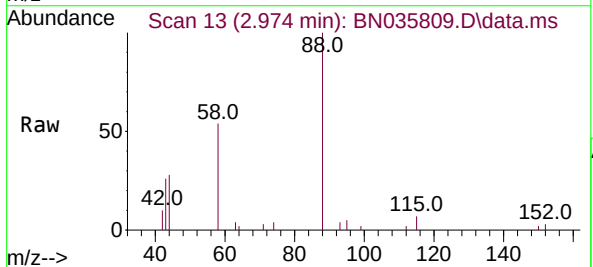
Manual Integrations
APPROVED

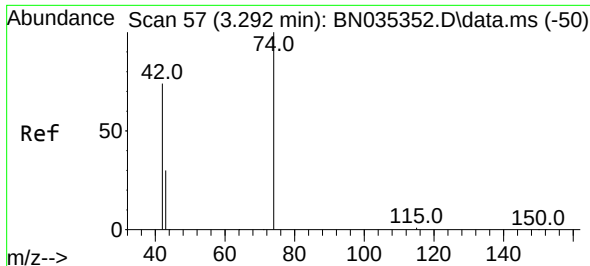
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion: 88 Resp: 3198
Ion Ratio Lower Upper
88 100
43 21.6 17.2 25.8
58 55.7 44.5 66.7





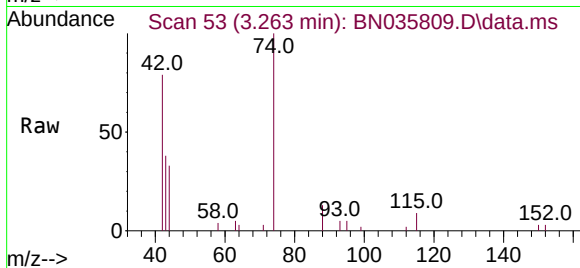
#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.263 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

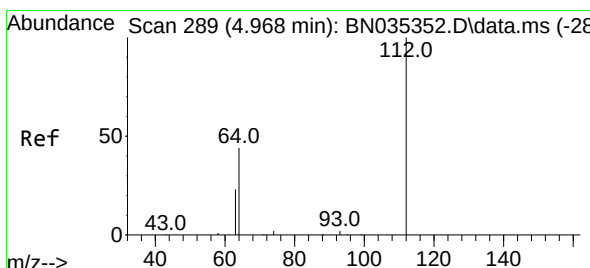
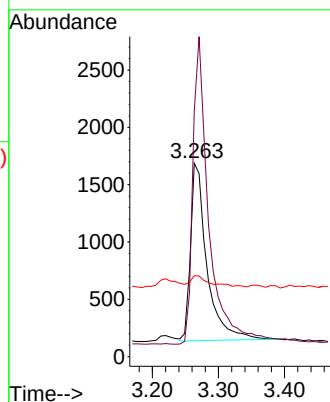
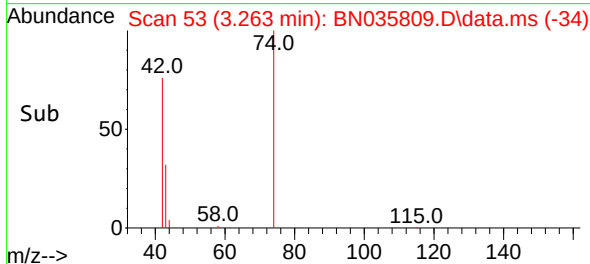


Tgt Ion: 42 Resp: 267
Ion Ratio Lower Upper
42 100
74 172.2 124.9 187.3
44 9.1 2.2 3.4

Manual Integrations

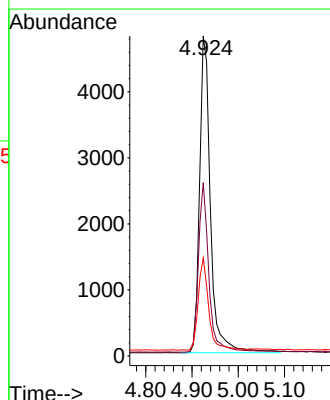
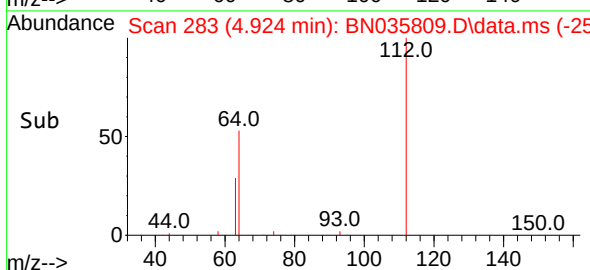
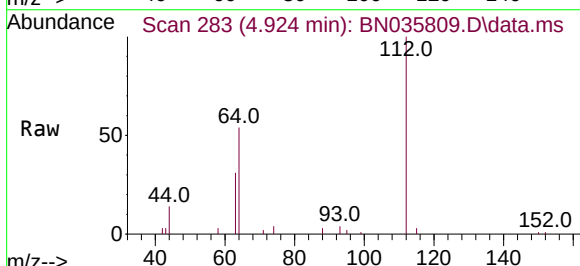
APPROVED

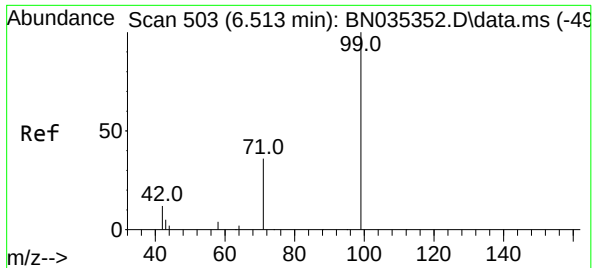
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:112 Resp: 7909
Ion Ratio Lower Upper
112 100
64 51.5 39.8 59.8
63 28.0 21.0 31.6





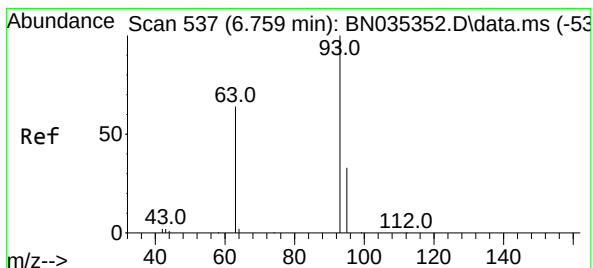
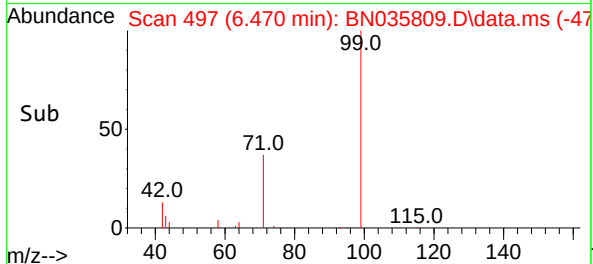
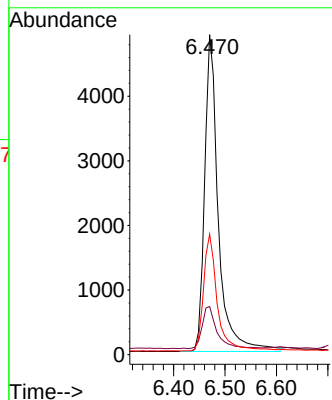
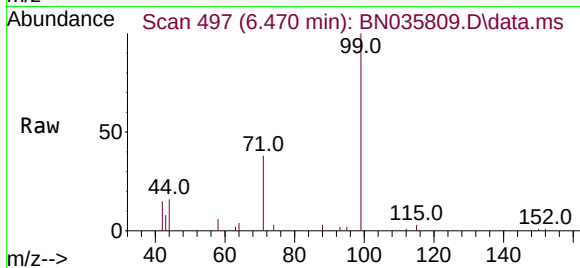
#5
Phenol-d6
Concen: 0.361 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 908
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 37.3 29.3 43.9

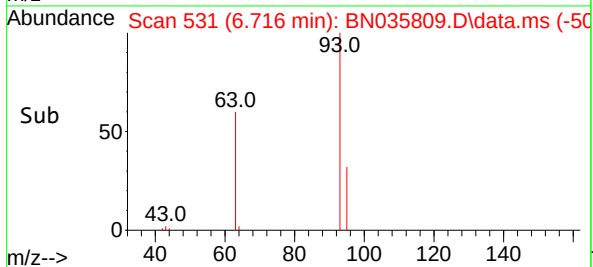
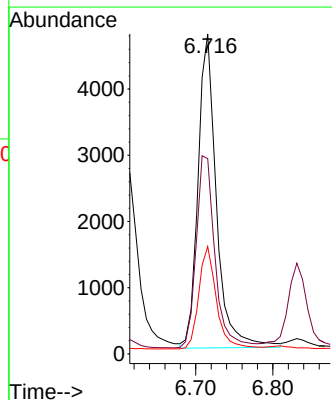
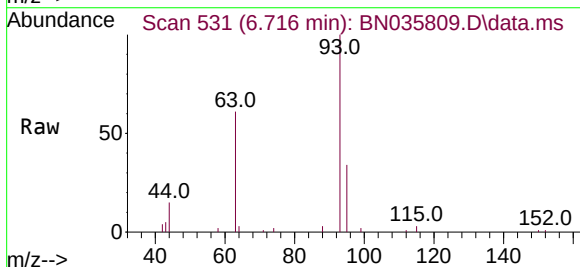
Manual Integrations
APPROVED

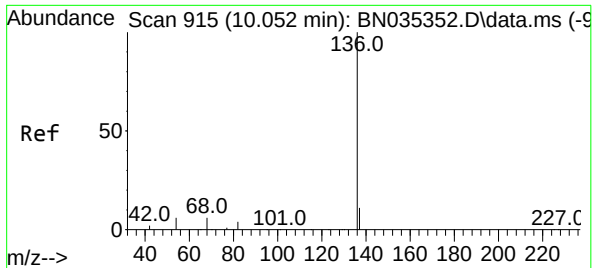
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.372 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

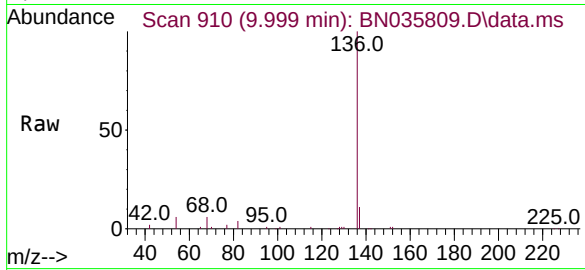
Tgt Ion: 93 Resp: 7863
Ion Ratio Lower Upper
93 100
63 62.7 50.4 75.6
95 31.6 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

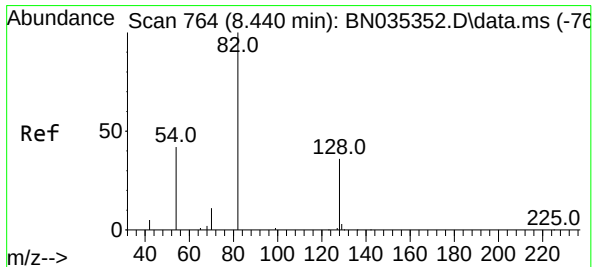
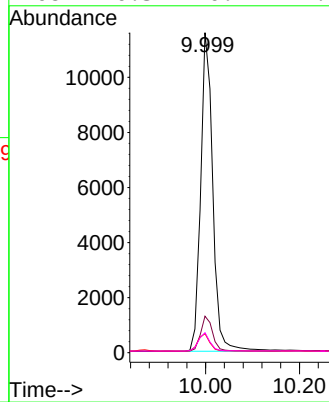
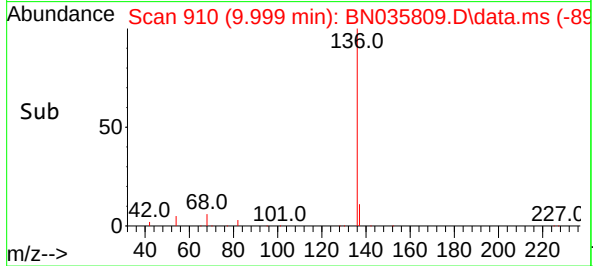
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:136 Resp: 2075
Ion Ratio Lower Upper
136 100
137 11.4 10.2 15.2
54 5.9 6.1 9.1
68 6.3 6.4 9.6#

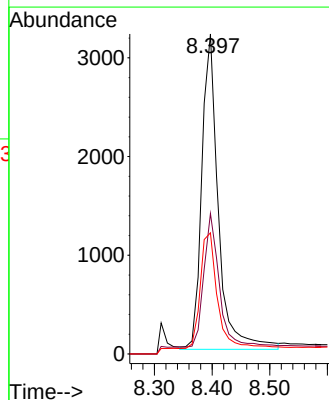
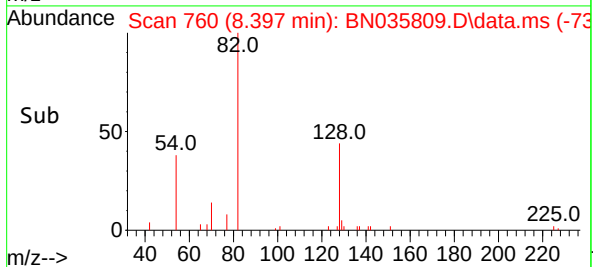
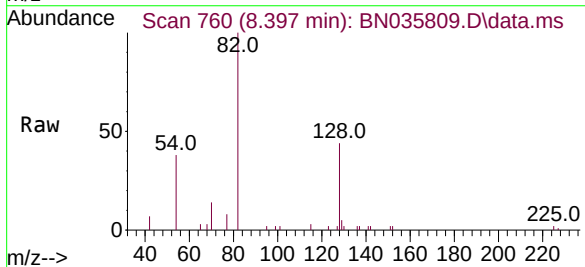
Manual Integrations
APPROVED

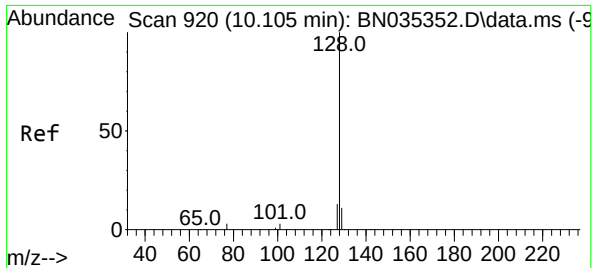
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.503 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

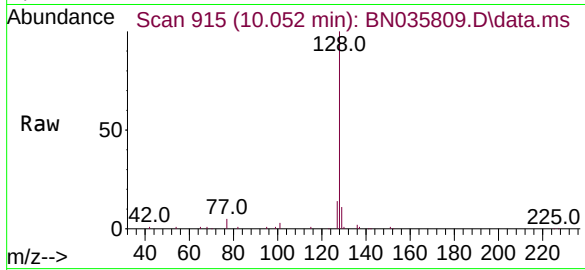
Tgt Ion: 82 Resp: 6379
Ion Ratio Lower Upper
82 100
128 43.9 33.4 50.0
54 37.9 36.7 55.1





#9
Naphthalene
Concen: 0.385 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

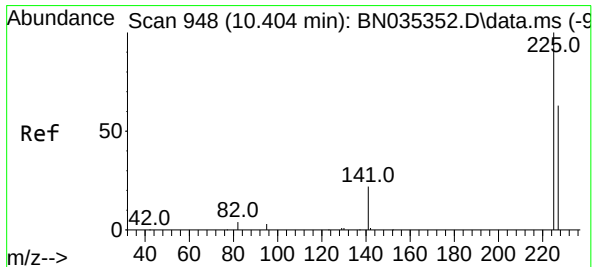
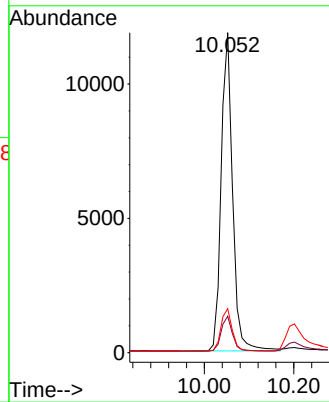
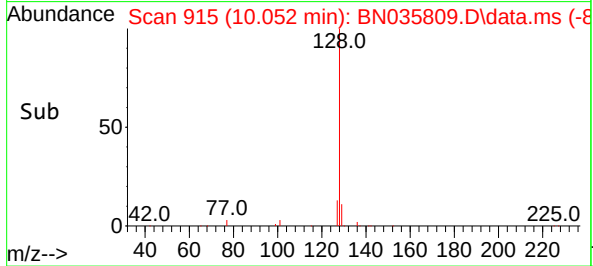
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:128 Resp: 21064
Ion Ratio Lower Upper
128 100
129 11.4 9.8 14.6
127 13.8 11.4 17.2

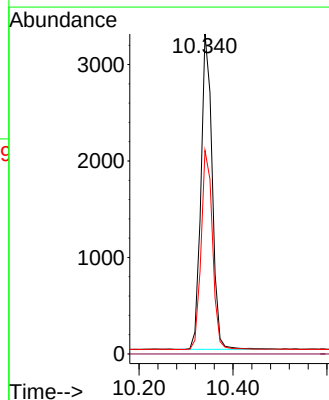
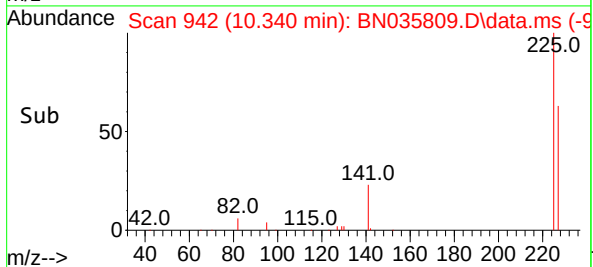
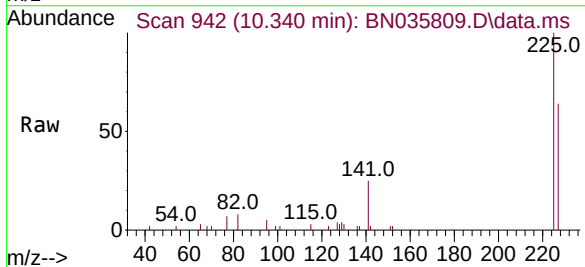
Manual Integrations
APPROVED

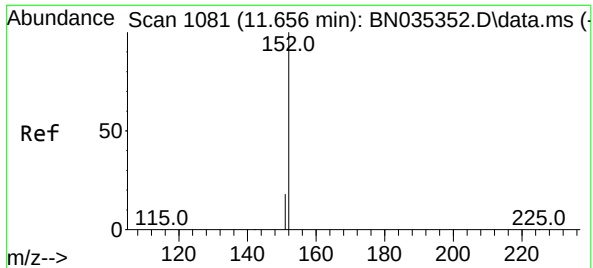
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

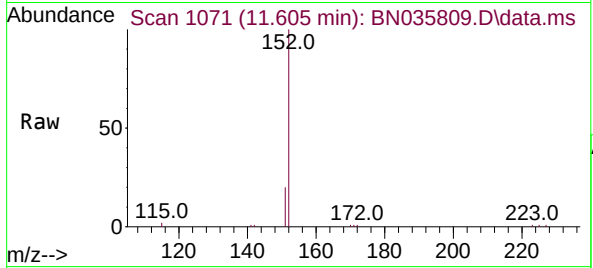
Tgt Ion:225 Resp: 5424
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

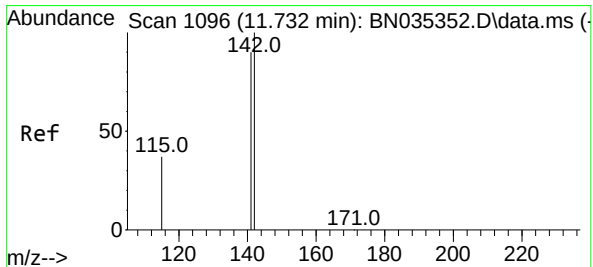
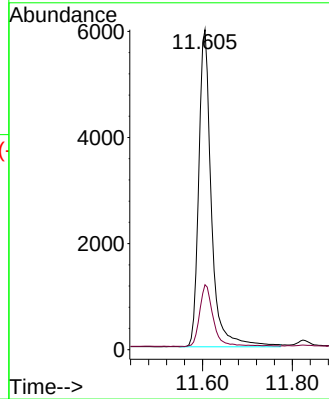
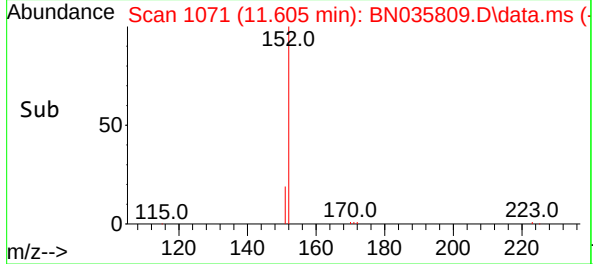
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 11679
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

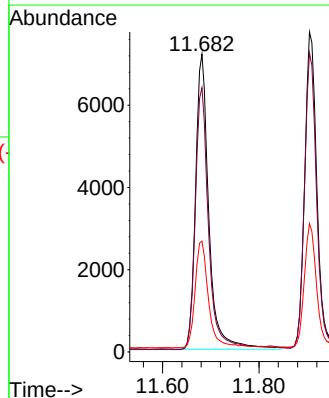
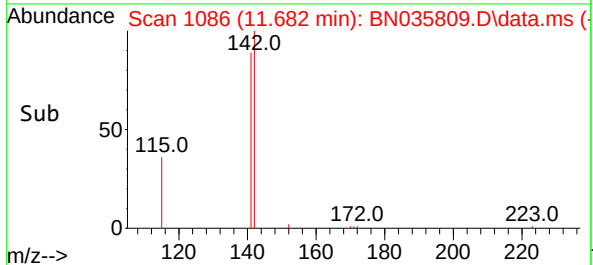
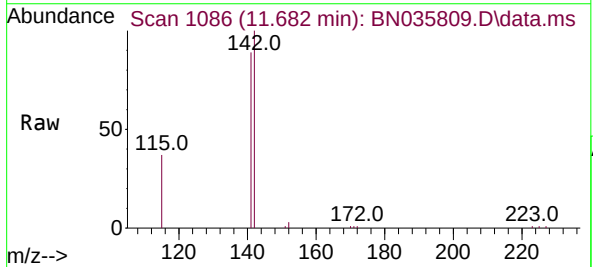
Manual Integrations
APPROVED

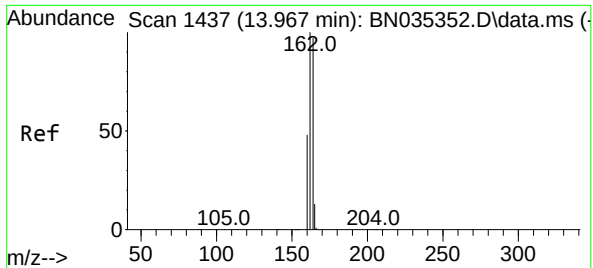
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

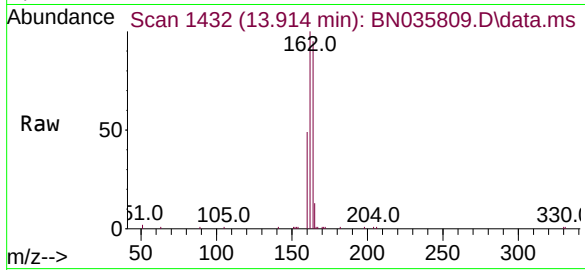
Tgt Ion:142 Resp: 13794
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 37.2 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

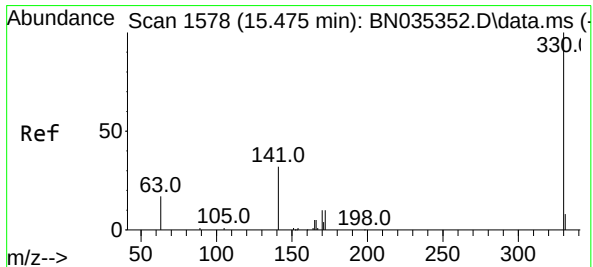
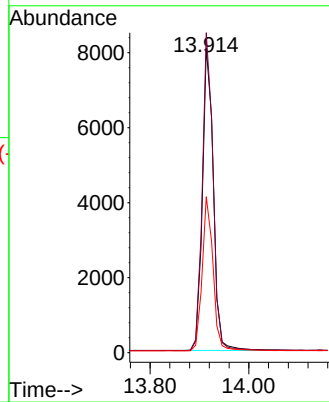
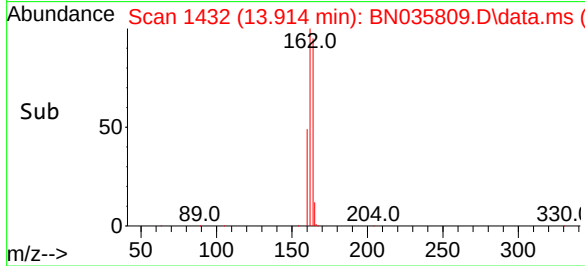
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 12450
Ion Ratio Lower Upper
164 100
162 104.9 82.2 123.2
160 51.2 40.1 60.1

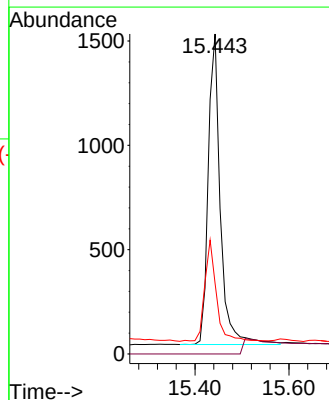
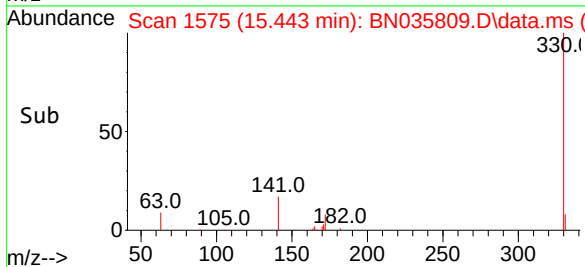
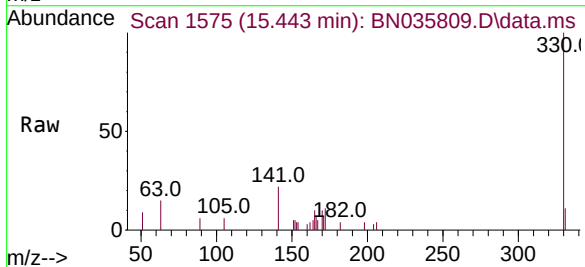
Manual Integrations
APPROVED

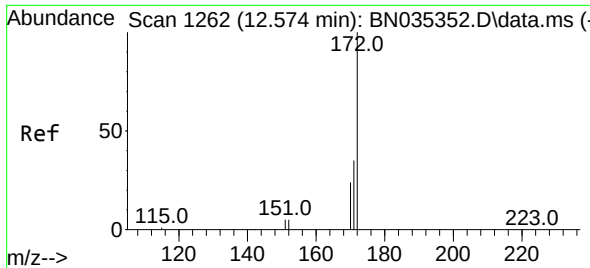
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

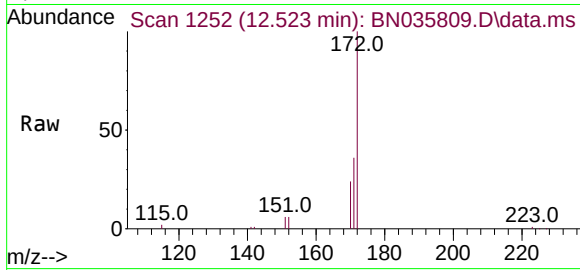
Tgt Ion:330 Resp: 2792
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.9 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

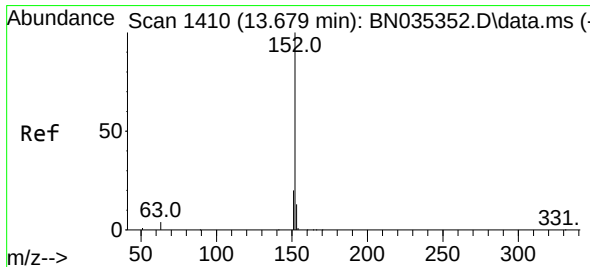
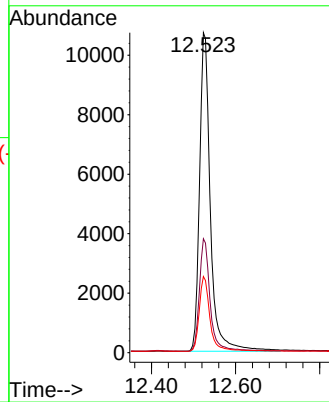
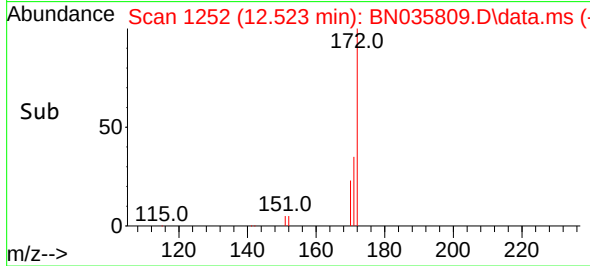
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 1912
Ion Ratio Lower Upper
172 100
171 35.6 29.0 43.4
170 23.8 19.8 29.8

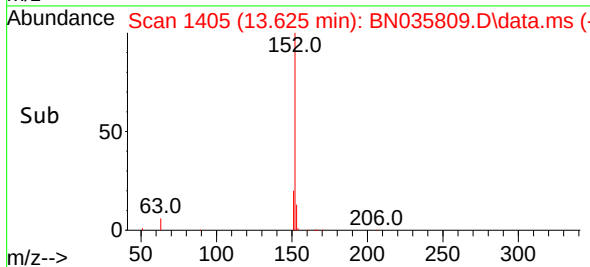
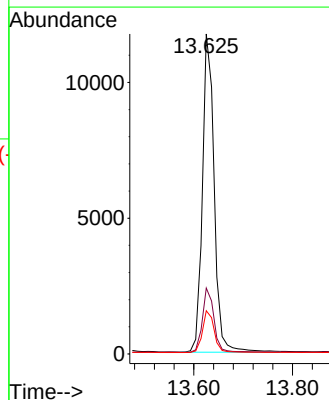
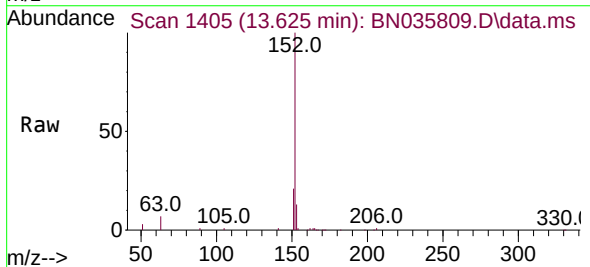
Manual Integrations
APPROVED

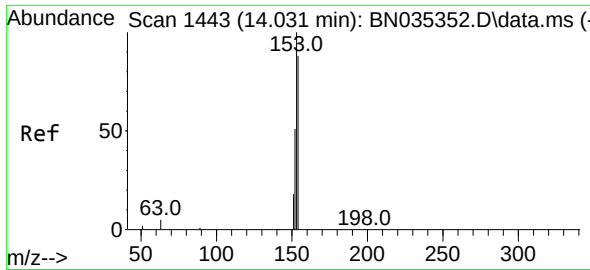
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

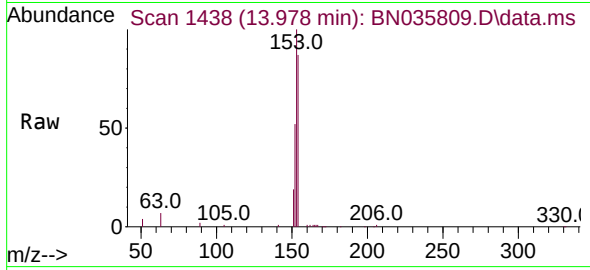
Tgt Ion:152 Resp: 19447
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.1 10.4 15.6





#17
Acenaphthene
Concen: 0.382 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

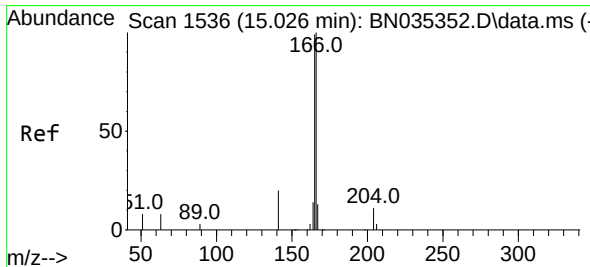
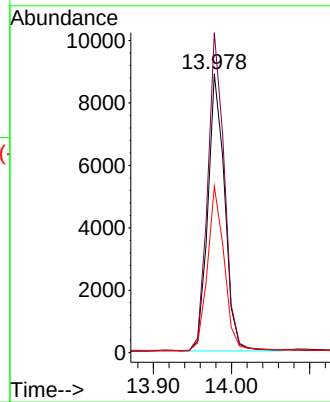
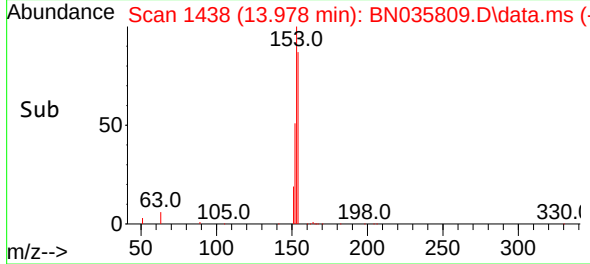
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 13250
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 59.3 49.0 73.6

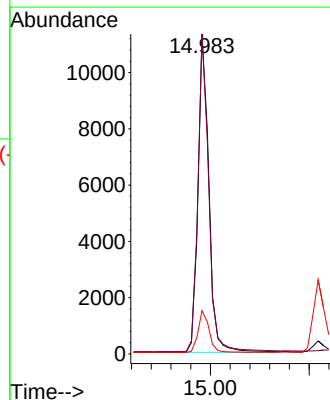
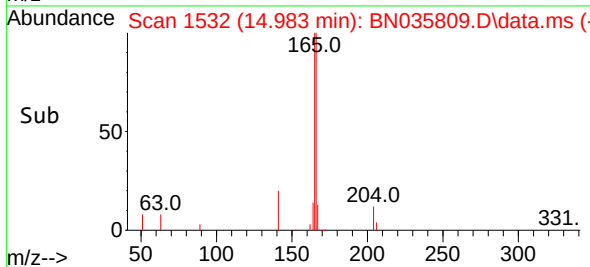
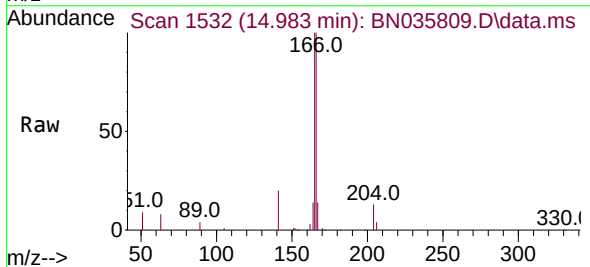
Manual Integrations
APPROVED

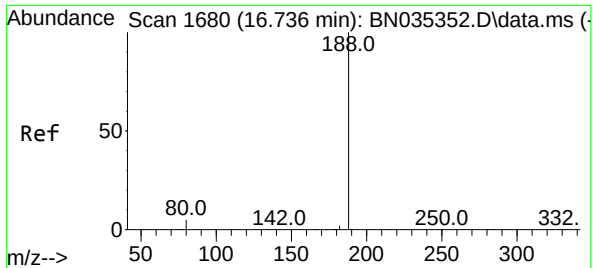
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.348 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

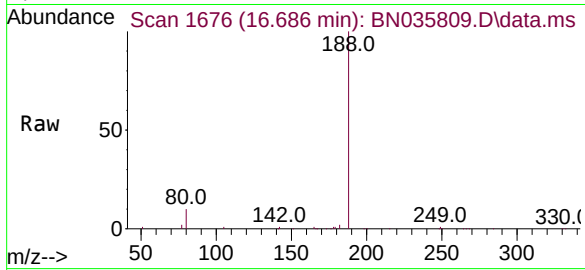
Tgt Ion:166 Resp: 17299
Ion Ratio Lower Upper
166 100
165 98.8 79.7 119.5
167 13.4 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

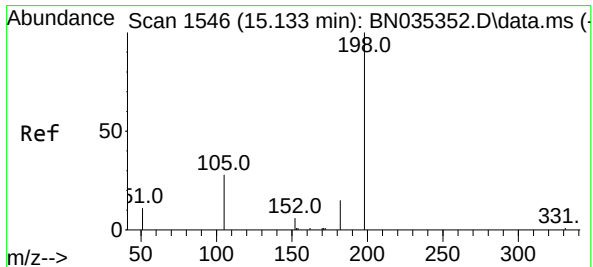
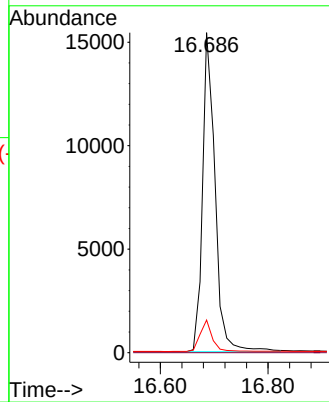
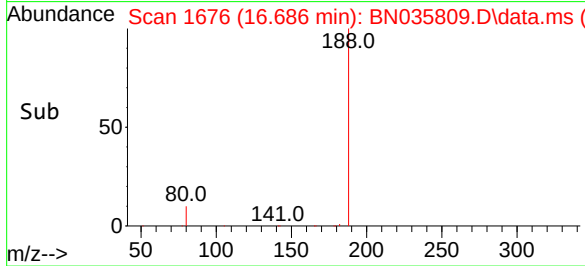
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:188 Resp: 2492
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.2 4.6 6.8

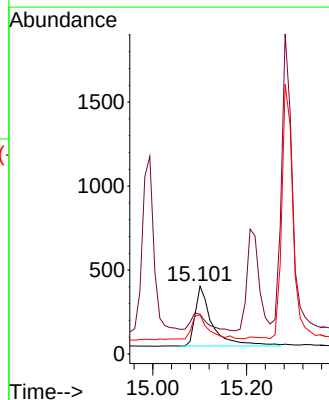
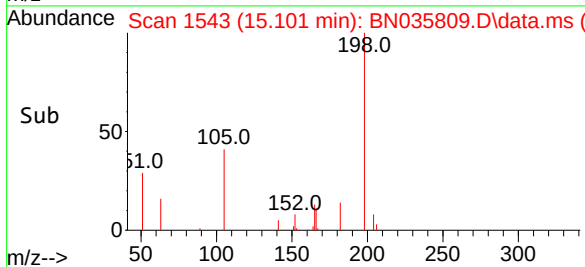
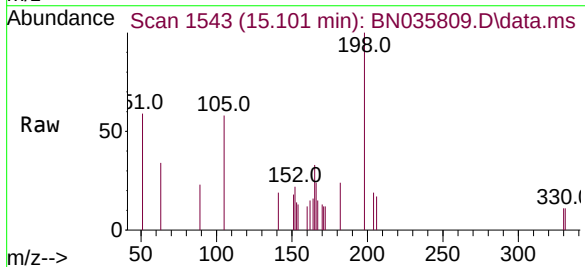
Manual Integrations
APPROVED

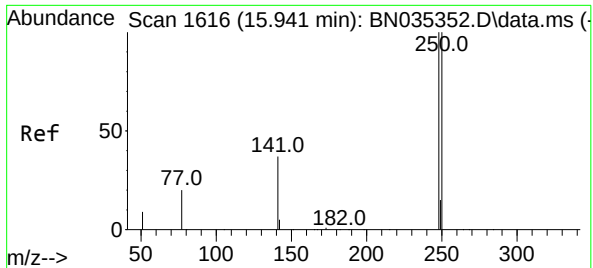
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.101 min Scan# 1543
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

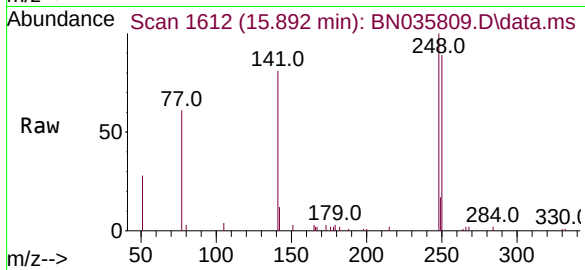
Tgt Ion:198 Resp: 892
Ion Ratio Lower Upper
198 100
51 58.7 46.5 69.7
105 57.9 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.892 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

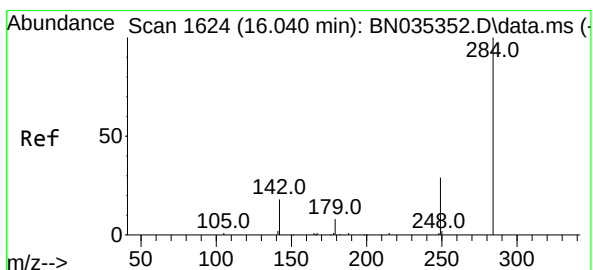
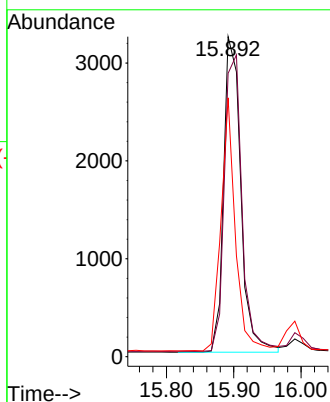
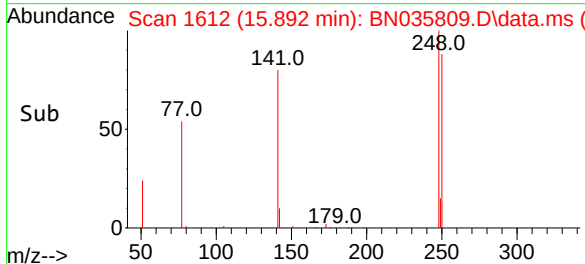
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 571
Ion Ratio Lower Upper
248 100
250 88.5 80.6 120.8
141 80.9 31.5 47.3

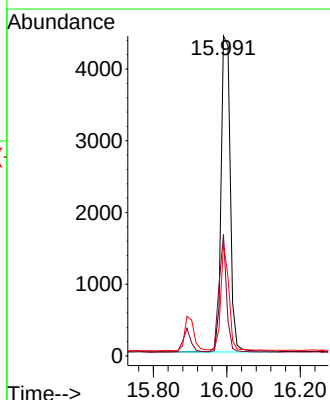
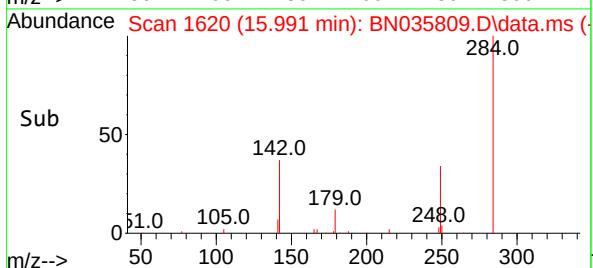
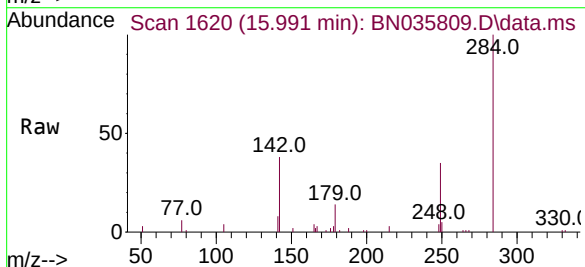
Manual Integrations
APPROVED

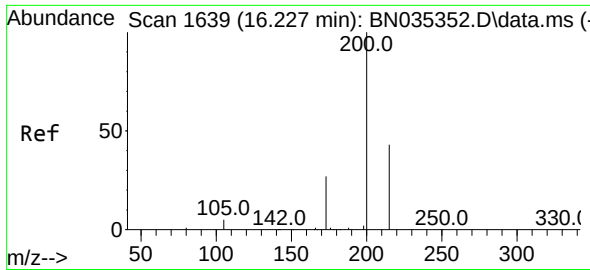
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

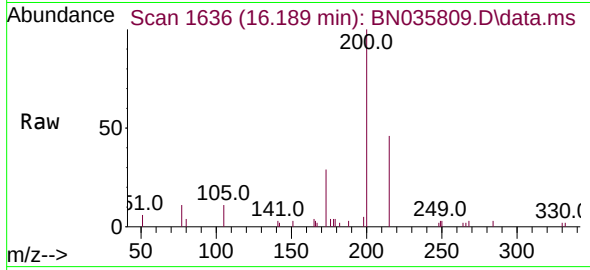
Tgt Ion:284 Resp: 7638
Ion Ratio Lower Upper
284 100
142 31.3 26.7 40.1
249 29.6 24.6 36.8





#23
Atrazine
Concen: 0.381 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

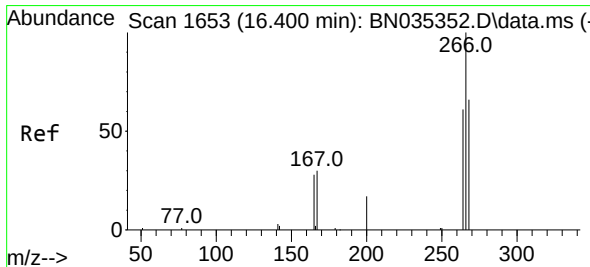
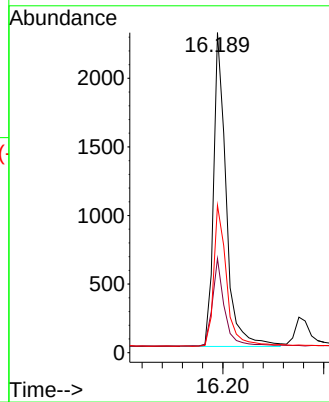
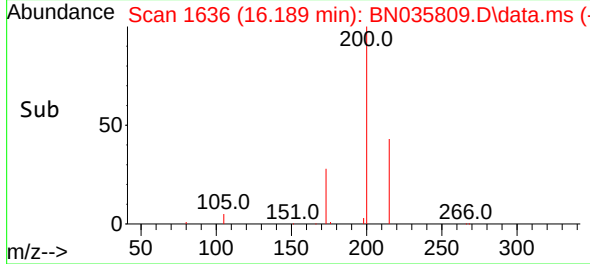
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 395
Ion Ratio Lower Upper
200 100
173 29.4 24.1 36.1
215 46.0 36.9 55.3

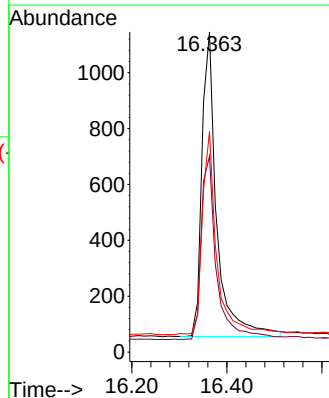
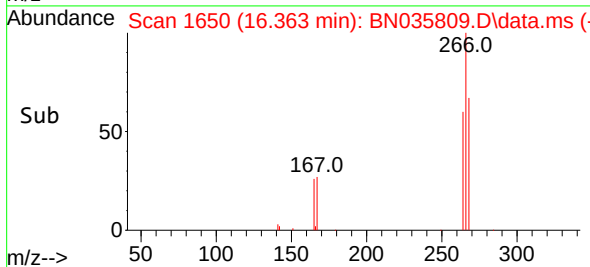
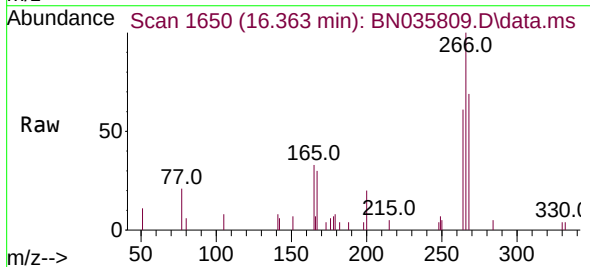
Manual Integrations
APPROVED

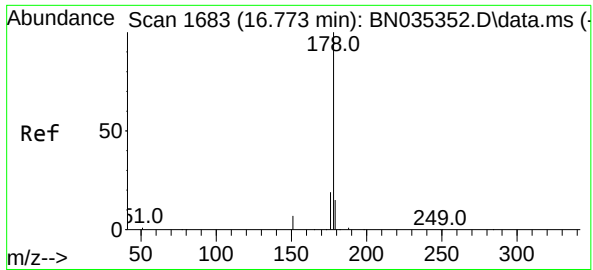
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.318 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

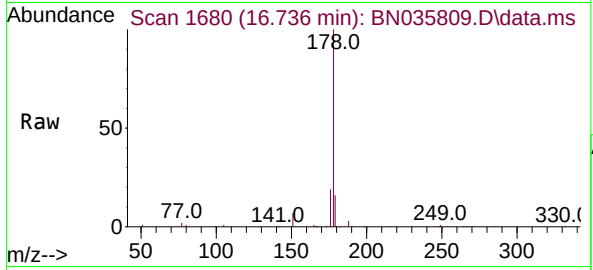
Tgt Ion:266 Resp: 2368
Ion Ratio Lower Upper
266 100
264 62.2 42.3 63.5
268 65.5 43.3 64.9#





#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

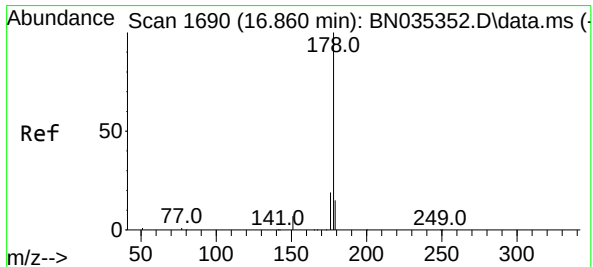
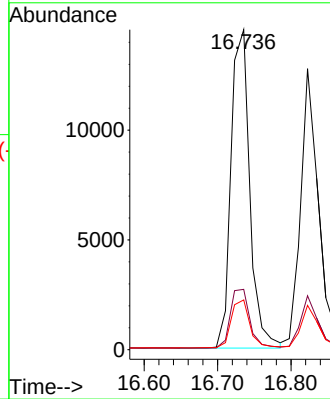
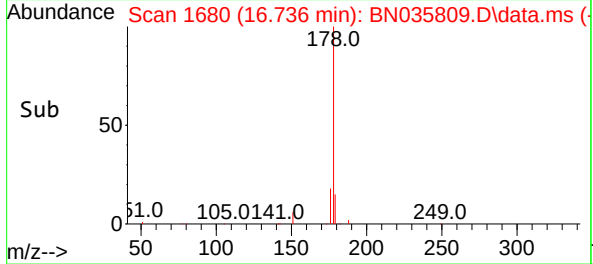
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 2578
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.3 18.5

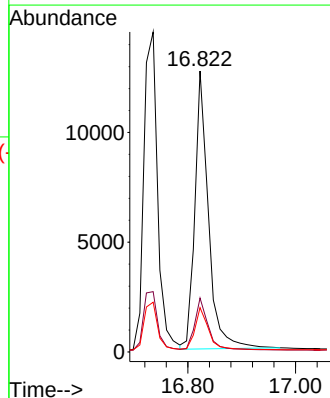
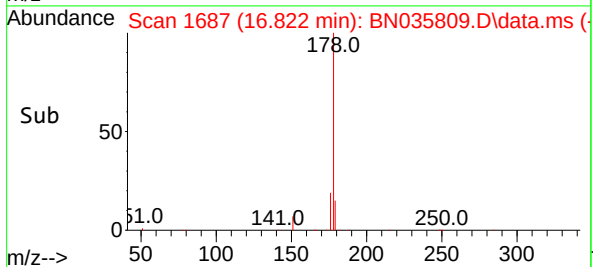
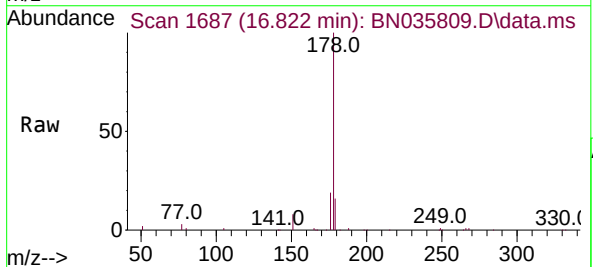
Manual Integrations
APPROVED

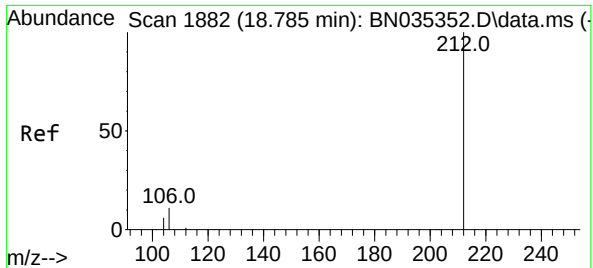
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.360 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

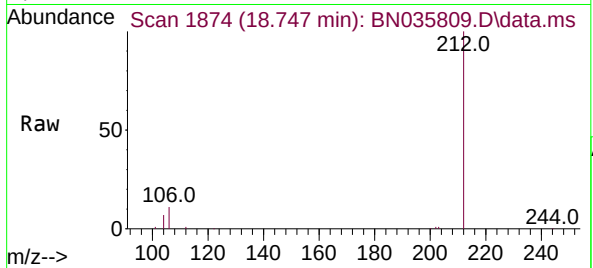
Tgt Ion:178 Resp: 22279
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.4 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

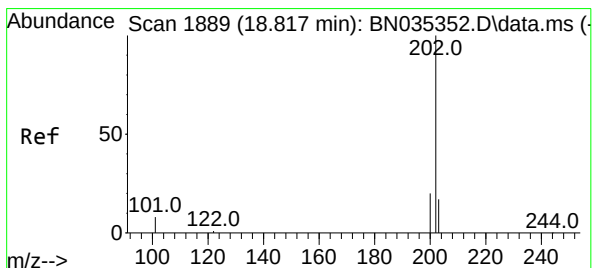
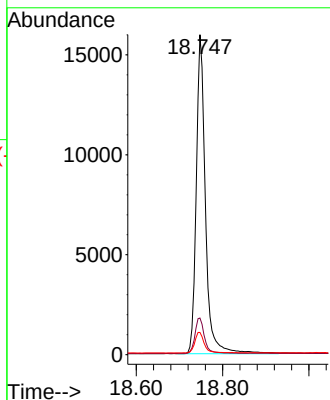
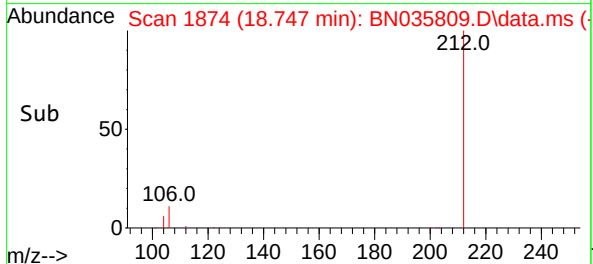
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 23600
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9

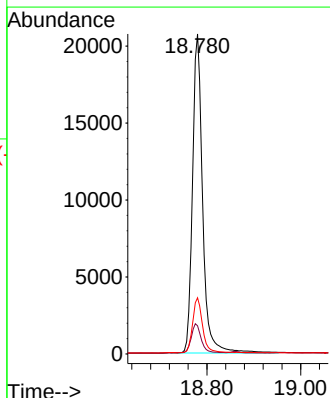
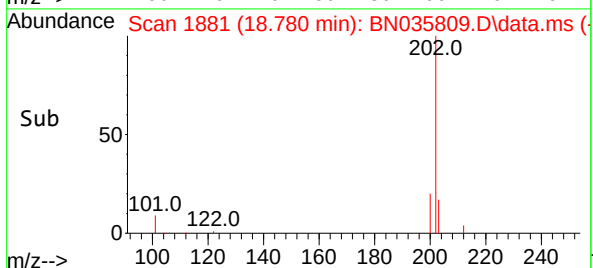
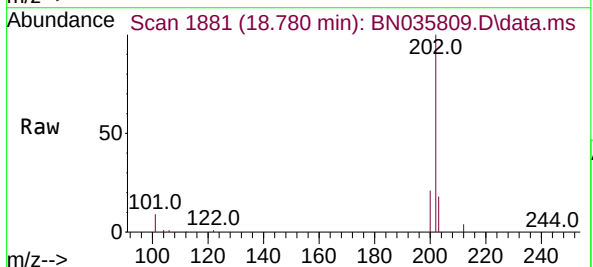
Manual Integrations
APPROVED

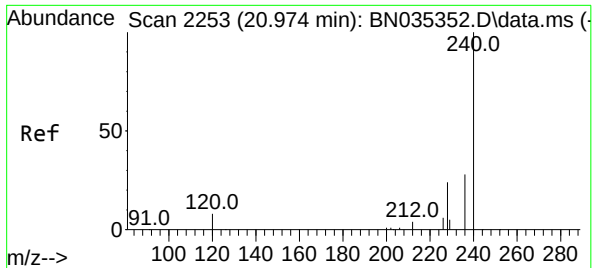
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 31096
Ion Ratio Lower Upper
202 100
101 9.3 7.4 11.0
203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2198

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 20198

Ion Ratio Lower Upper

240 100

120 8.0 7.9 11.9

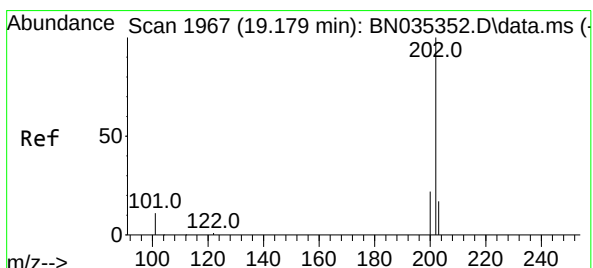
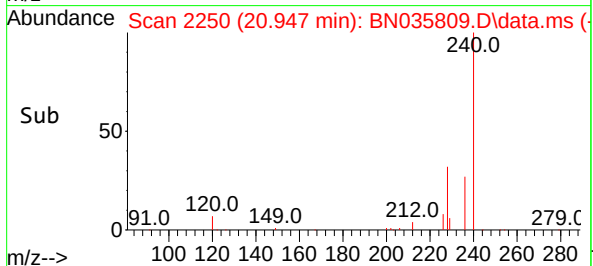
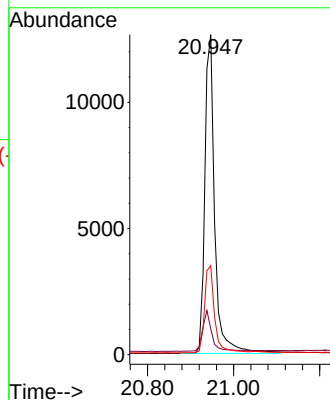
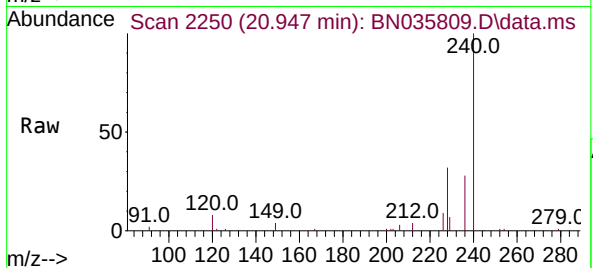
236 27.8 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.432 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

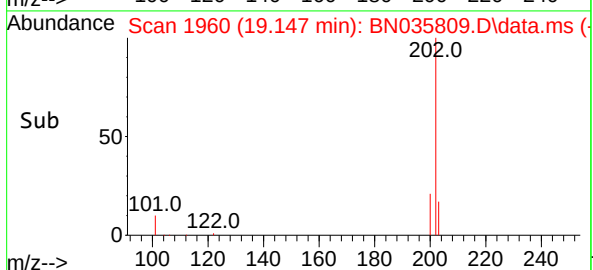
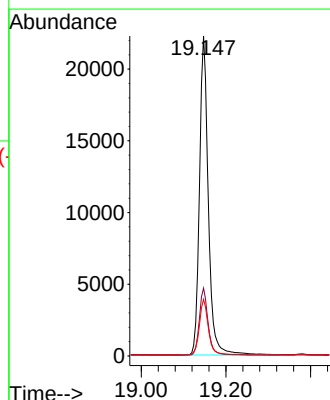
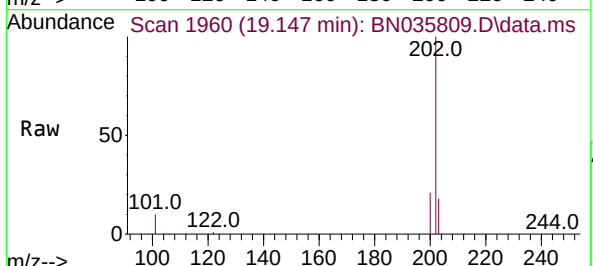
Tgt Ion:202 Resp: 32211

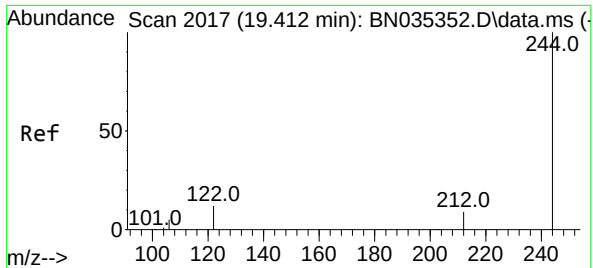
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.8 14.3 21.5





#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

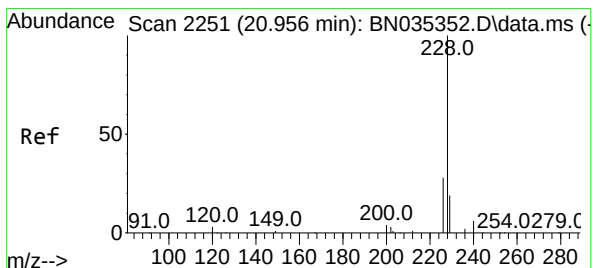
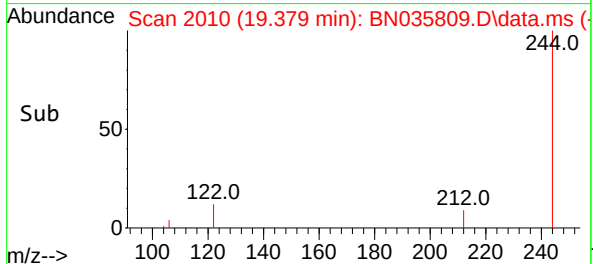
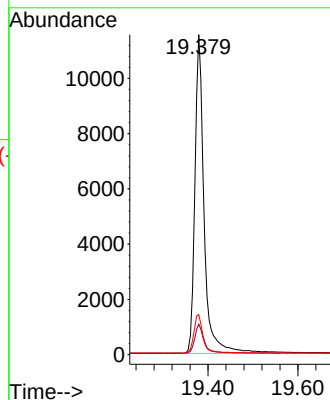
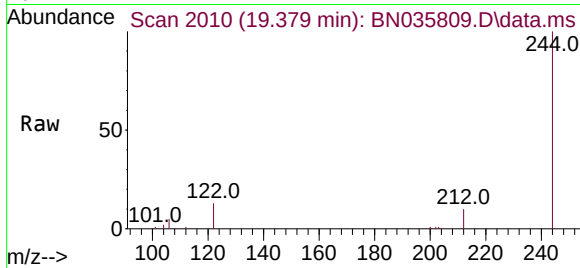
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	12.5	10.3	15.5

Manual Integrations

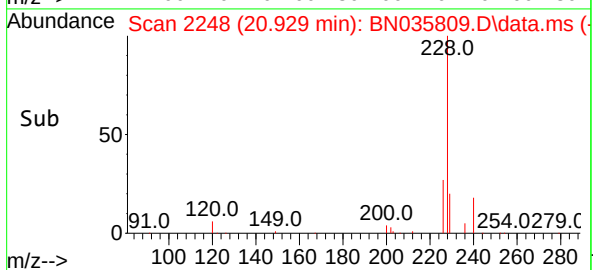
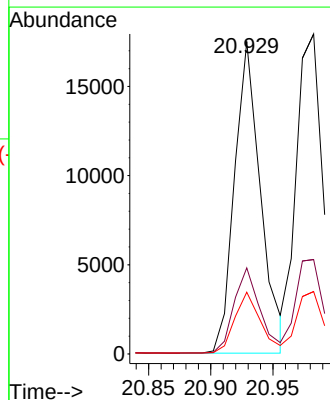
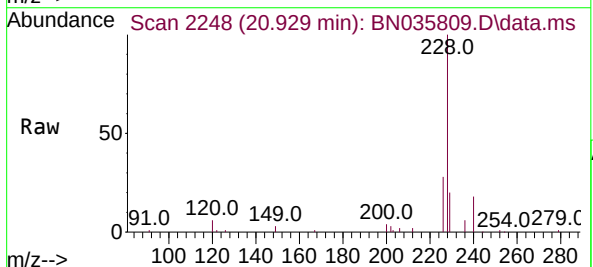
APPROVED

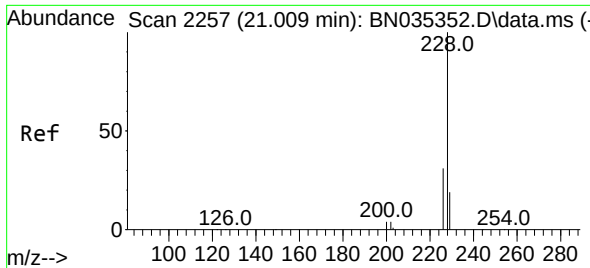
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

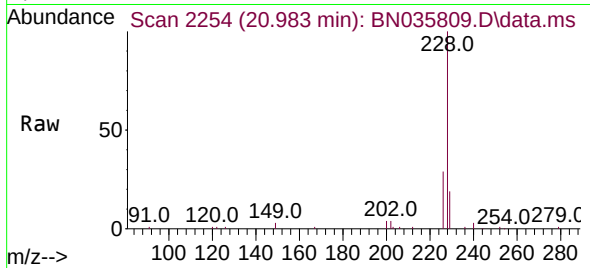
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.8	15.8	23.8





#33
Chrysene
Concen: 0.408 ng
RT: 20.983 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

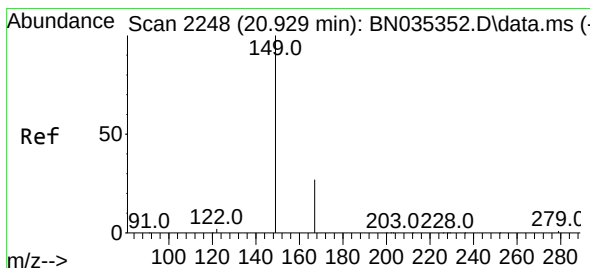
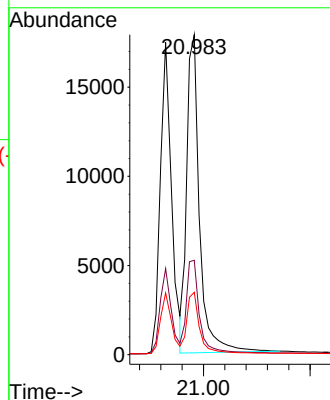
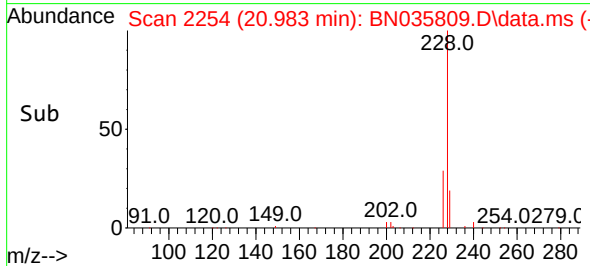
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 2972
Ion Ratio Lower Upper
228 100
226 29.5 24.6 37.0
229 19.5 15.9 23.9

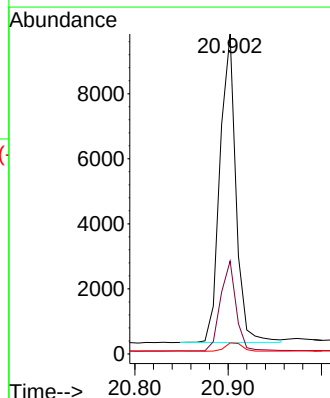
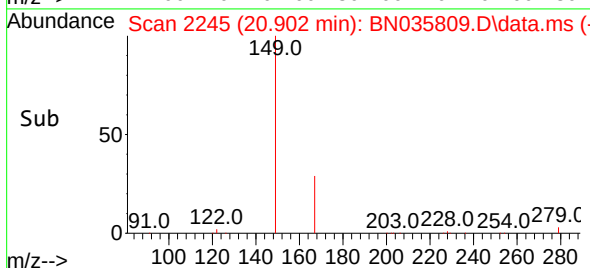
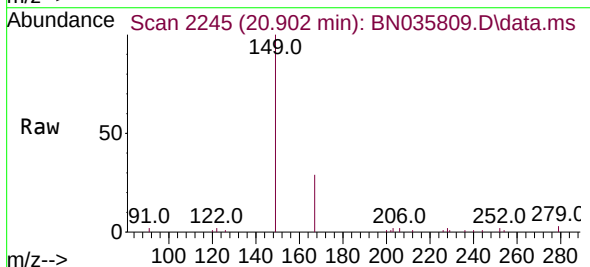
Manual Integrations
APPROVED

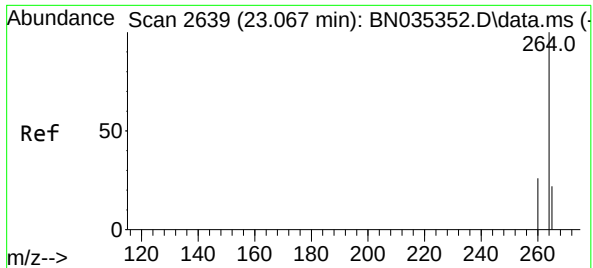
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

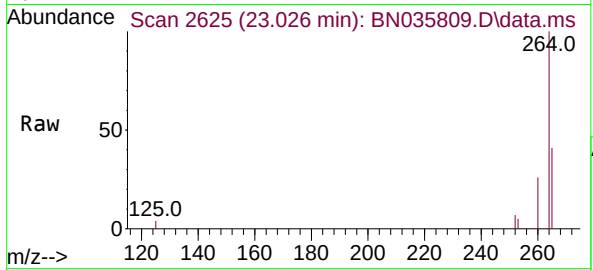
Tgt Ion:149 Resp: 11220
Ion Ratio Lower Upper
149 100
167 28.4 22.2 33.4
279 2.9 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2143
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

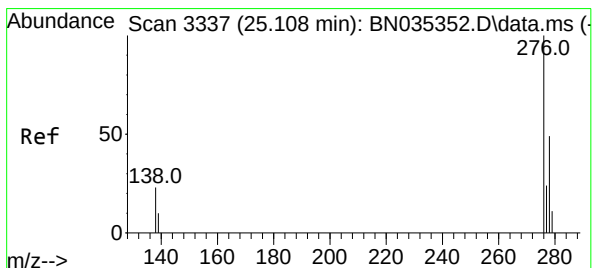
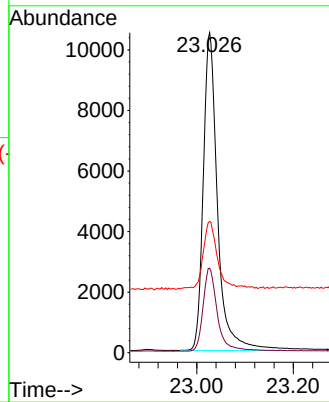
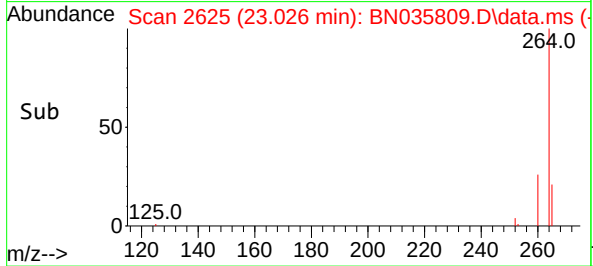
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 2143
Ion Ratio Lower Upper
264 100
260 26.4 21.4 32.2
265 41.0 40.2 60.4

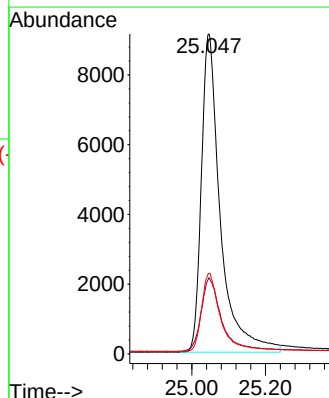
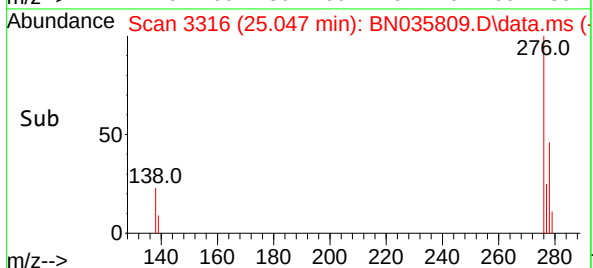
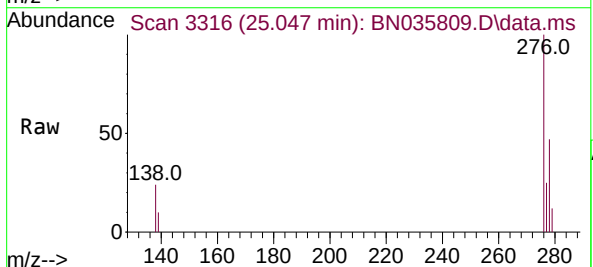
Manual Integrations
APPROVED

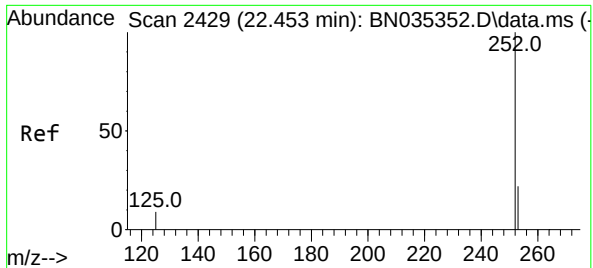
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:276 Resp: 32558
Ion Ratio Lower Upper
276 100
138 24.5 19.4 29.0
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.559 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035809.D

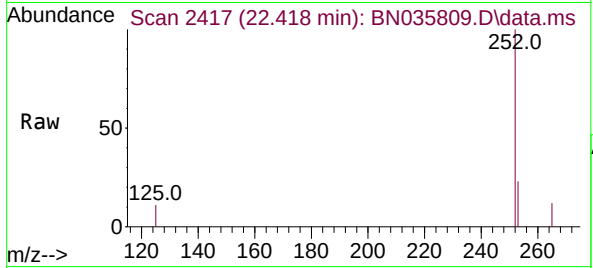
Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:252 Resp: 43862

Ion Ratio Lower Upper

252 100

253 23.4 19.6 29.4

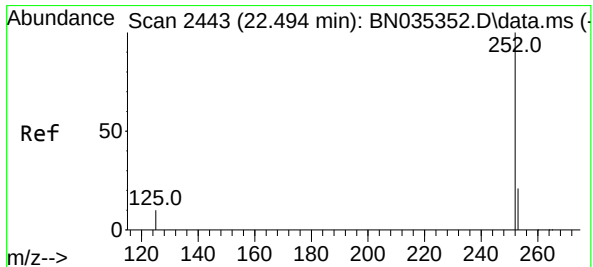
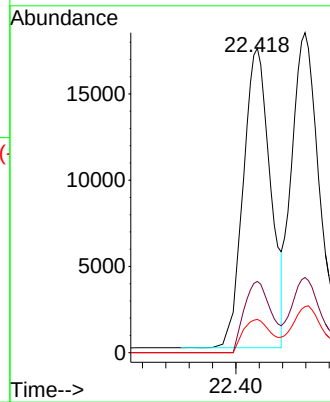
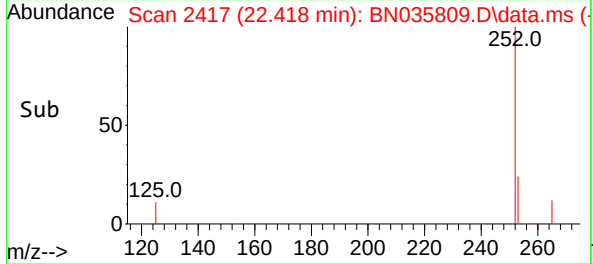
125 10.9 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

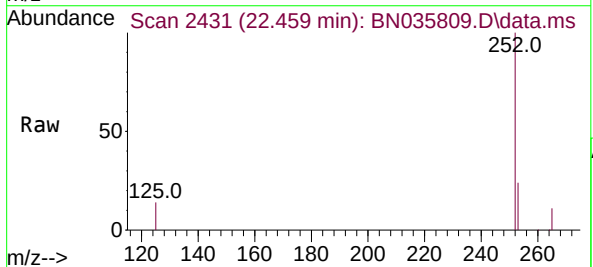
Concen: 0.426 ng

RT: 22.459 min Scan# 2431

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09



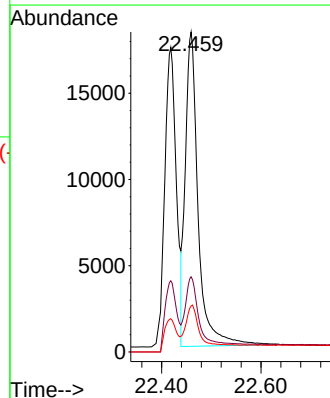
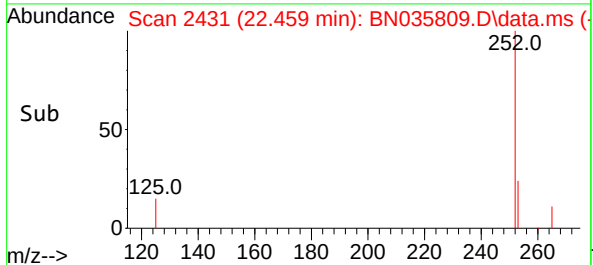
Tgt Ion:252 Resp: 32848

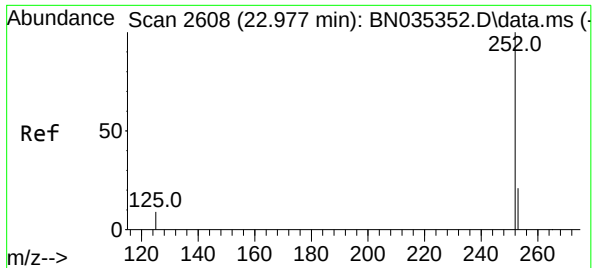
Ion Ratio Lower Upper

252 100

253 23.5 19.5 29.3

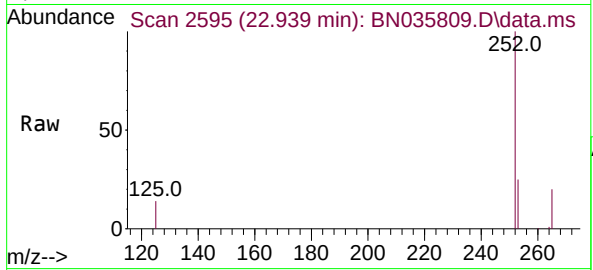
125 14.4 10.2 15.4





#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.939 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

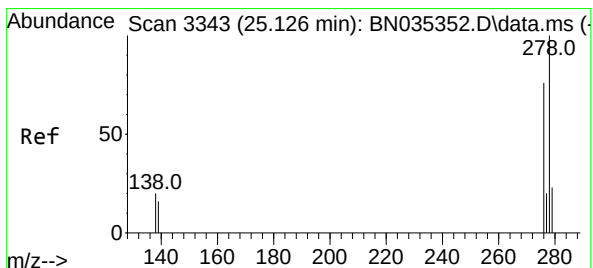
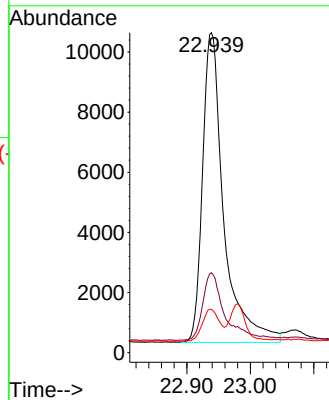
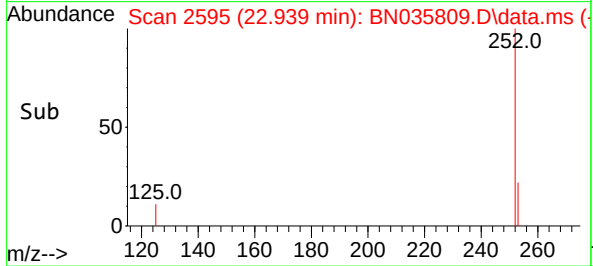
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:252 Resp: 2395
Ion Ratio Lower Upper
252 100
253 25.0 20.2 30.4
125 13.6 10.9 16.3

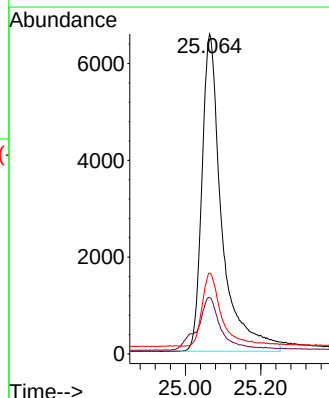
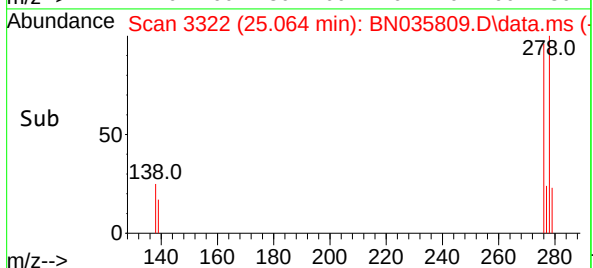
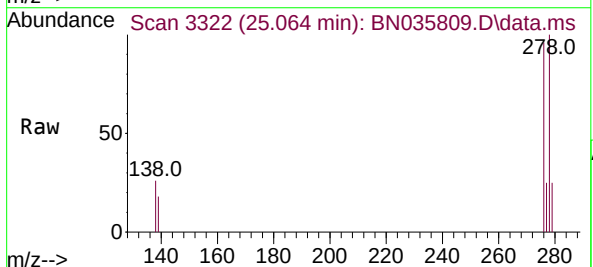
Manual Integrations
APPROVED

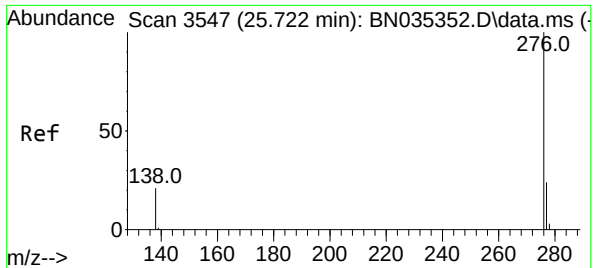
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.364 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:278 Resp: 24090
Ion Ratio Lower Upper
278 100
139 17.6 14.2 21.4
279 25.3 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.410 ng

RT: 25.658 min Scan# 31

Delta R.T. -0.021 min

Lab File: BN035809.D

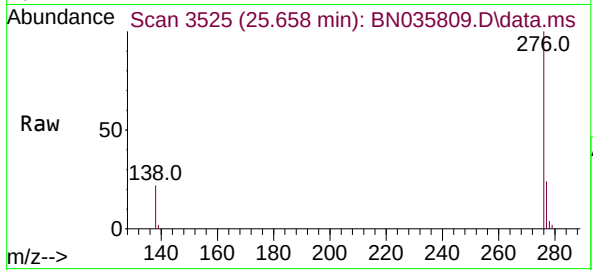
Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 2835

Ion Ratio Lower Upper

276 100

277 24.1 19.9 29.9

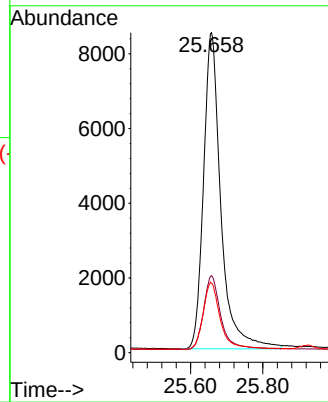
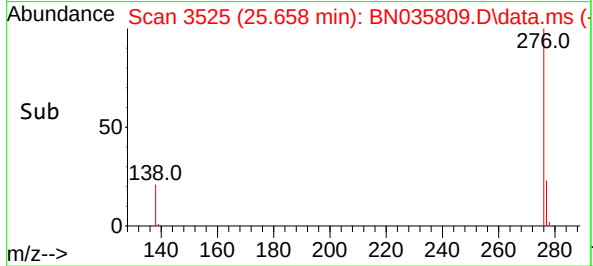
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035809.D
 Acq On : 24 Dec 2024 07:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 07:43:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	408#	-0.01
2	1,4-Dioxane	0.382	0.382	0.0	415#	0.00
3	n-Nitrosodimethylamine	0.319	0.320	-0.3	400#	-0.01
4 S	2-Fluorophenol	1.001	0.946	5.5	379#	-0.01
5 S	Phenol-d6	1.204	1.086	9.8	372#	-0.02
6	bis(2-Chloroethyl)ether	1.012	0.940	7.1	387#	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	397#	-0.02
8 S	Nitrobenzene-d5	0.244	0.307	-25.8#	519#	-0.01
9	Naphthalene	1.055	1.015	3.8	385#	-0.01
10	Hexachlorobutadiene	0.243	0.261	-7.4	420#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.563	10.1	361#	-0.02
12	2-Methylnaphthalene	0.755	0.665	11.9	357#	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	328#	-0.02
14 S	2,4,6-Tribromophenol	0.284	0.224	21.1	286#	-0.01
15 S	2-Fluorobiphenyl	1.512	1.535	-1.5	333#	-0.02
16	Acenaphthylene	1.680	1.561	7.1	321#	-0.02
17	Acenaphthene	1.115	1.064	4.6	321#	-0.02
18	Fluorene	1.596	1.389	13.0	295#	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	263#	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	265#	-0.02
21	4-Bromophenyl-phenylether	0.234	0.229	2.1	266#	-0.02
22	Hexachlorobenzene	0.275	0.306	-11.3	295#	-0.02
23	Atrazine	0.167	0.159	4.8	271#	-0.01
24	Pentachlorophenol	0.120	0.095	20.8	261#	-0.01
25	Phenanthrene	1.099	1.035	5.8	255#	-0.01
26	Anthracene	0.994	0.894	10.1	250#	-0.01
27 SURR	Fluoranthene-d10	1.134	0.947	16.5	231#	-0.01
28	Fluoranthene	1.481	1.248	15.7	231#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	212#	0.00
30	Pyrene	1.477	1.595	-8.0	229#	-0.01
31 S	Terphenyl-d14	0.789	0.817	-3.5	219#	0.00
32	Benzo(a)anthracene	1.399	1.259	10.0	197#	0.00
33	Chrysene	1.443	1.472	-2.0	216#	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.556	-0.5	228#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	198#	-0.01
36	Indeno(1,2,3-cd)pyrene	1.564	1.519	2.9	196#	-0.02
37	Benzo(b)fluoranthene	1.463	2.047	-39.9#	308#	-0.01
38	Benzo(k)fluoranthene	1.440	1.533	-6.5	216#	-0.01
39 C	Benzo(a)pyrene	1.205	1.118	7.2	193#	-0.01
40	Dibenzo(a,h)anthracene	1.234	1.124	8.9	186#	-0.02
41	Benzo(g,h,i)perylene	1.289	1.323	-2.6	210#	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035809.D
 Acq On : 24 Dec 2024 07:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 07:43:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	408	-0.01
2	1,4-Dioxane	0.400	0.400	0.0	415	0.00
3	n-Nitrosodimethylamine	0.400	0.401	-0.3	400	-0.01
4 S	2-Fluorophenol	0.400	0.378	5.5	379	-0.01
5 S	Phenol-d6	0.400	0.361	9.8	372	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.372	7.0	387	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	397	-0.02
8 S	Nitrobenzene-d5	0.400	0.503	-25.7#	519	-0.01
9	Naphthalene	0.400	0.385	3.8	385	-0.01
10	Hexachlorobutadiene	0.400	0.430	-7.5	420	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	361	-0.02
12	2-Methylnaphthalene	0.400	0.352	12.0	357	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	328	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.316	21.0	286	-0.01
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	333	-0.02
16	Acenaphthylene	0.400	0.372	7.0	321	-0.02
17	Acenaphthene	0.400	0.382	4.5	321	-0.02
18	Fluorene	0.400	0.348	13.0	295	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	263	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	265	-0.02
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	266	-0.02
22	Hexachlorobenzene	0.400	0.446	-11.5	295	-0.02
23	Atrazine	0.400	0.381	4.8	271	-0.01
24	Pentachlorophenol	0.400	0.318	20.5	261	-0.01
25	Phenanthrene	0.400	0.377	5.8	255	-0.01
26	Anthracene	0.400	0.360	10.0	250	-0.01
27 SURR	Fluoranthene-d10	0.400	0.334	16.5	231	-0.01
28	Fluoranthene	0.400	0.337	15.8	231	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	212	0.00
30	Pyrene	0.400	0.432	-8.0	229	-0.01
31 S	Terphenyl-d14	0.400	0.414	-3.5	219	0.00
32	Benzo(a)anthracene	0.400	0.360	10.0	197	0.00
33	Chrysene	0.400	0.408	-2.0	216	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	228	0.00
35 I	Perylene-d12	0.400	0.400	0.0	198	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	196	-0.02
37	Benzo(b)fluoranthene	0.400	0.559	-39.8#	308	-0.01
38	Benzo(k)fluoranthene	0.400	0.426	-6.5	216	-0.01
39 C	Benzo(a)pyrene	0.400	0.371	7.3	193	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.364	9.0	186	-0.02
41	Benzo(g,h,i)perylene	0.400	0.410	-2.5	210	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG No.: P5282

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 12/27/2024

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

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 12/27/2024

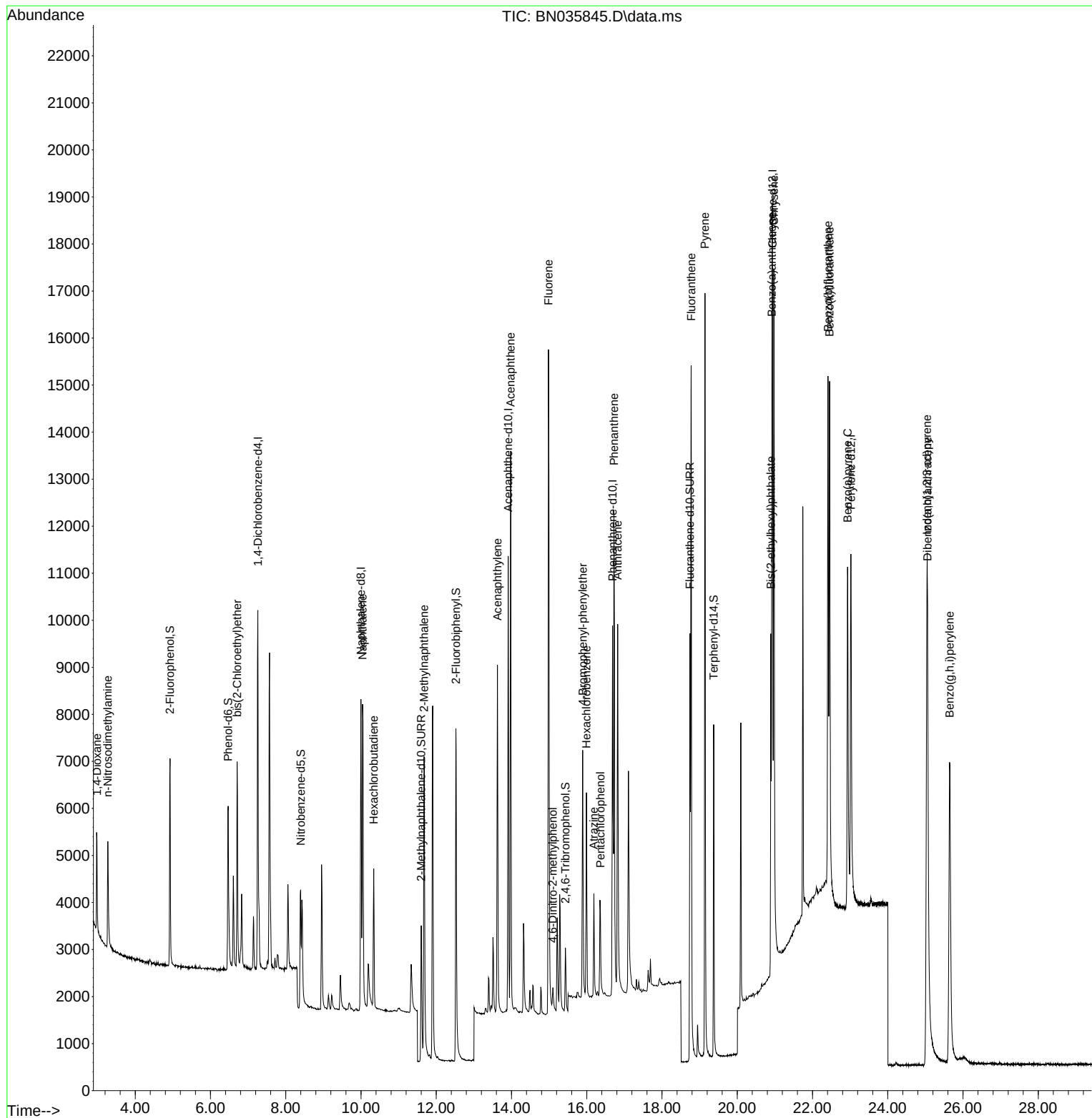
Quant Time: Dec 27 00:40:11 2024

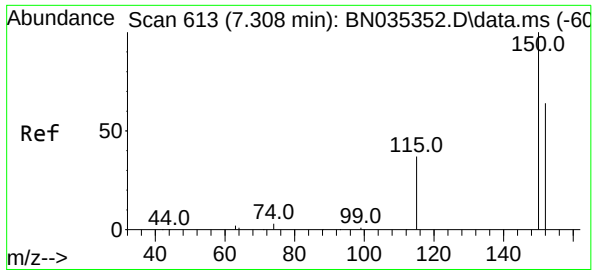
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

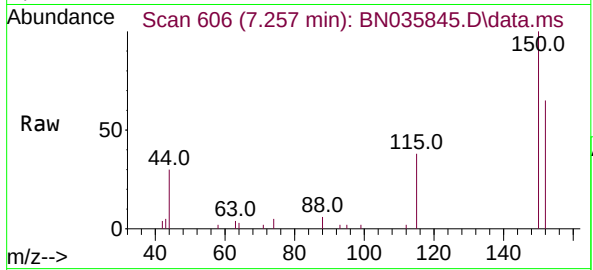
Response via : Initial Calibration





#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

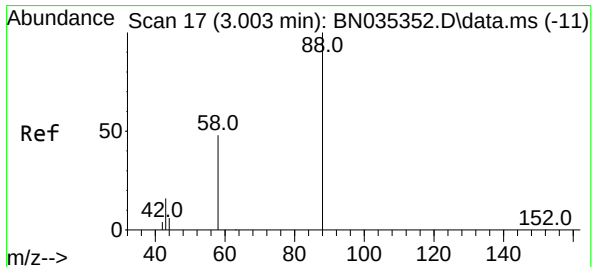
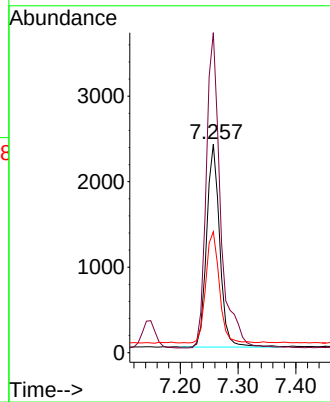
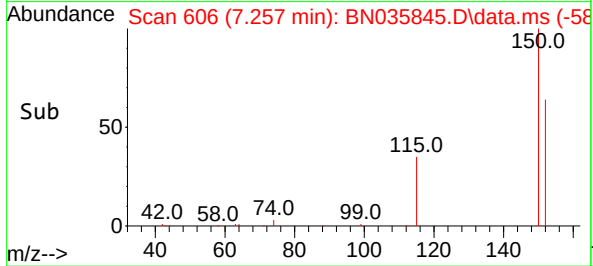
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

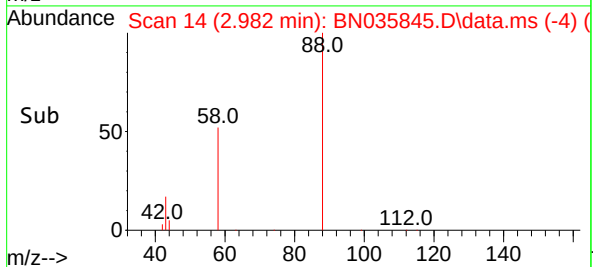
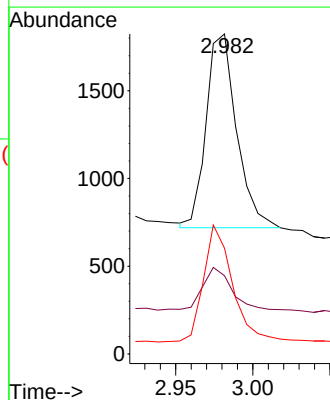
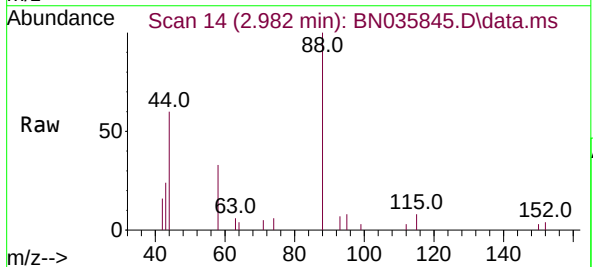
Manual Integrations
APPROVED

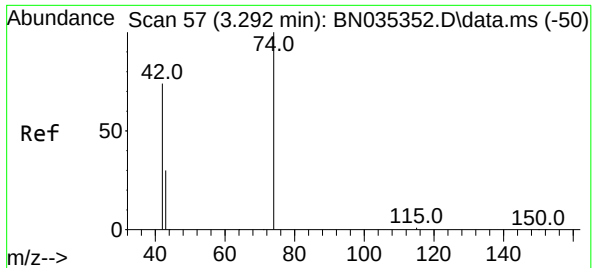
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

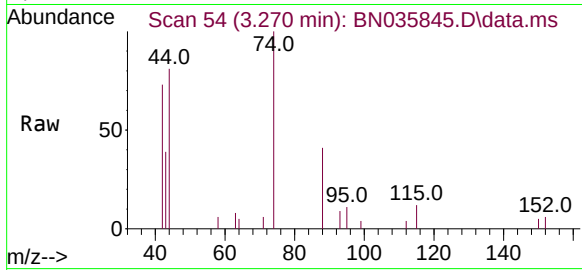
Tgt Ion: 88 Resp: 1520
Ion Ratio Lower Upper
88 100
43 19.9 17.2 25.8
58 57.5 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

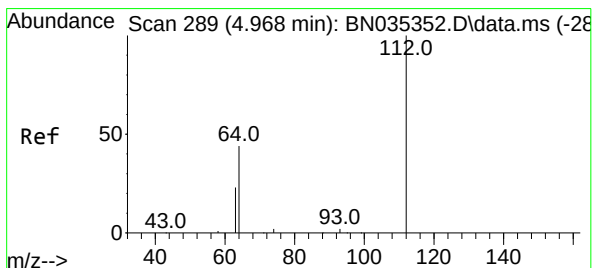
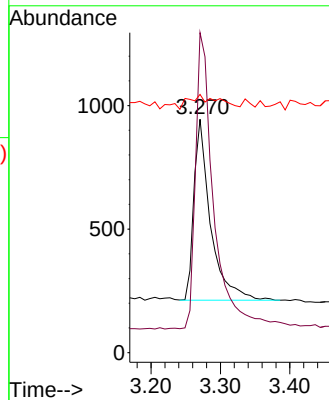
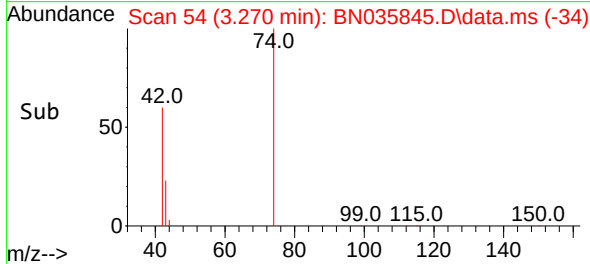
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

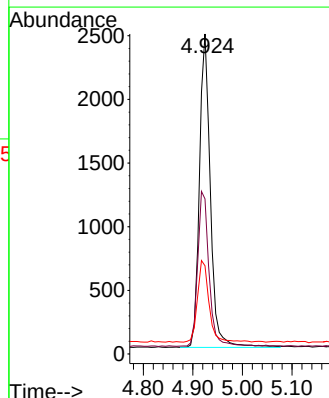
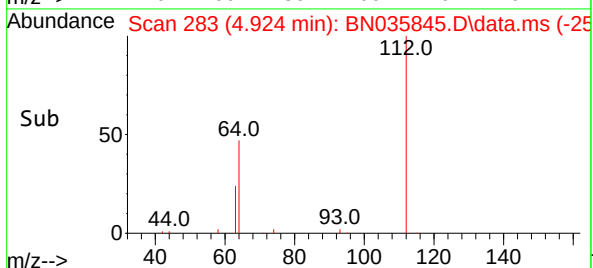
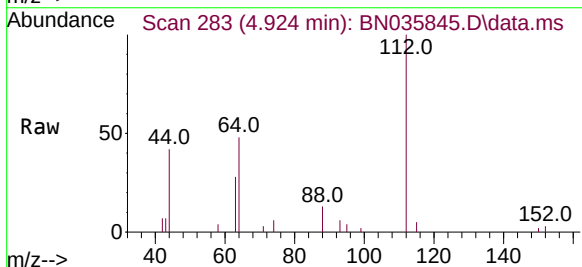
Manual Integrations
APPROVED

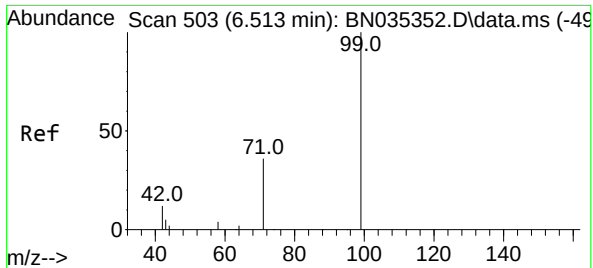
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

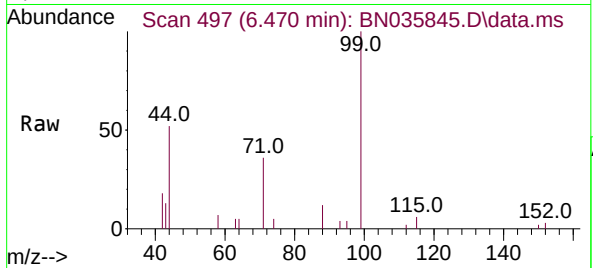
Tgt Ion:112 Resp: 3777
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 27.5 21.0 31.6





#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

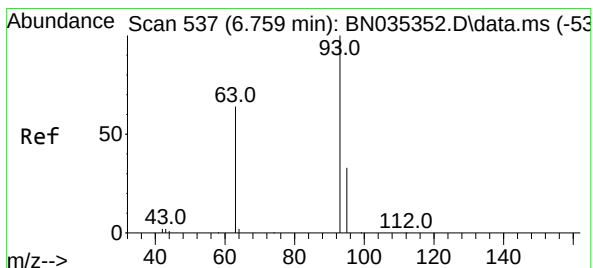
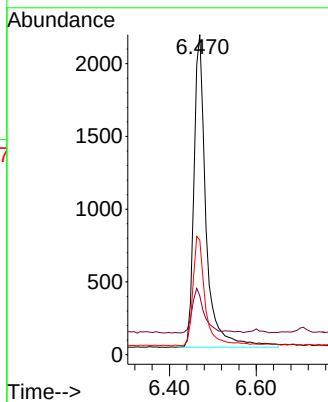
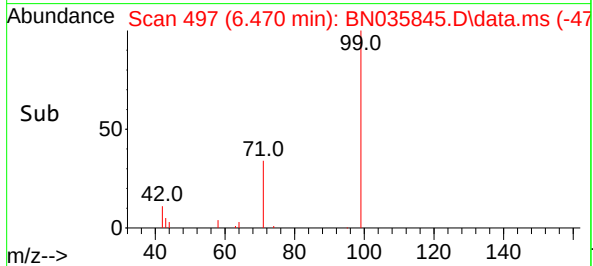
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

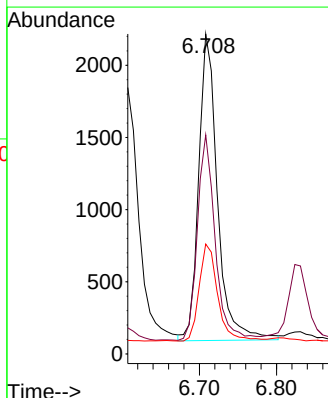
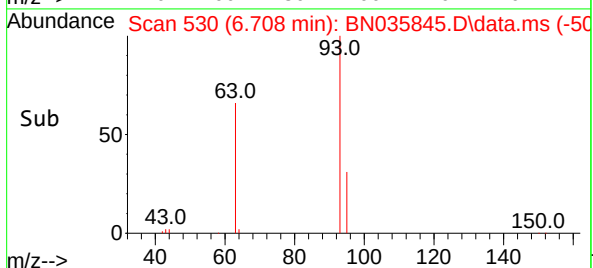
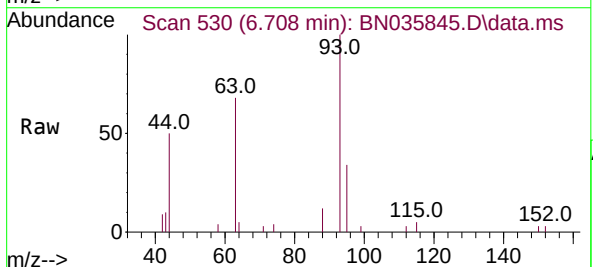
Manual Integrations
APPROVED

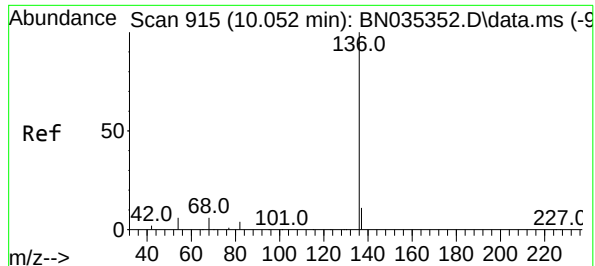
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599
Ion Ratio Lower Upper
93 100
63 63.3 50.4 75.6
95 31.3 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

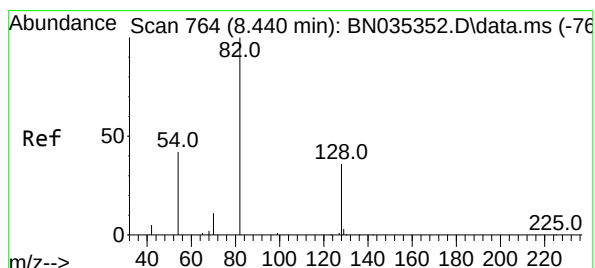
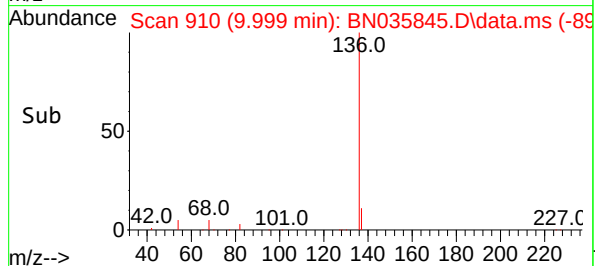
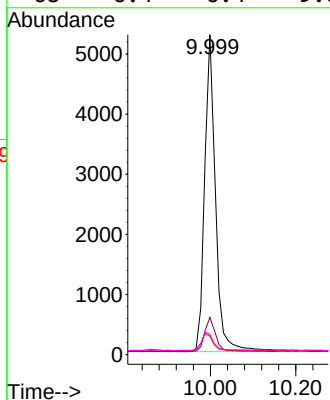
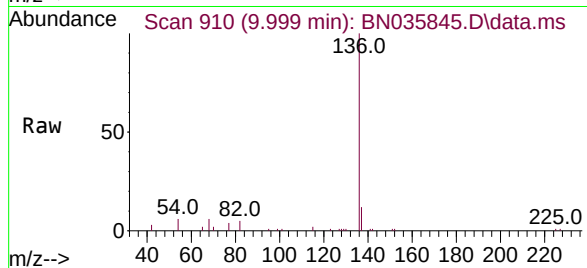
ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 932
Ion Ratio Lower Upper
136 100
137 11.6 10.2 15.2
54 5.8 6.1 9.1
68 6.4 6.4 9.6#

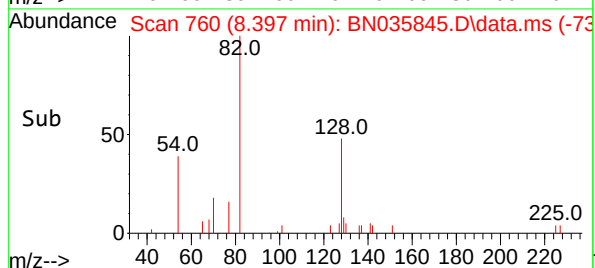
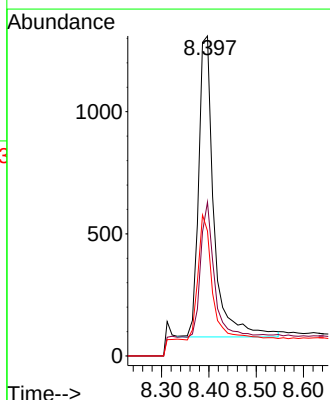
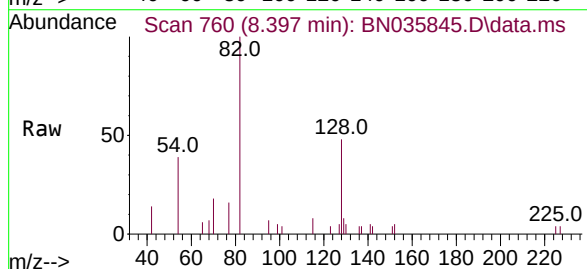
Manual Integrations
APPROVED

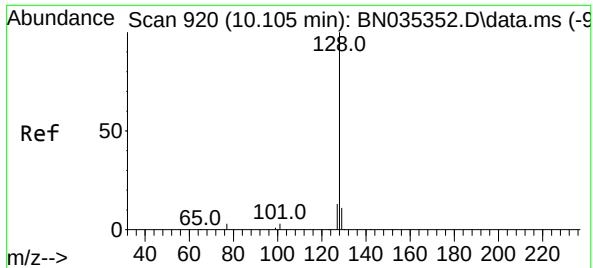
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

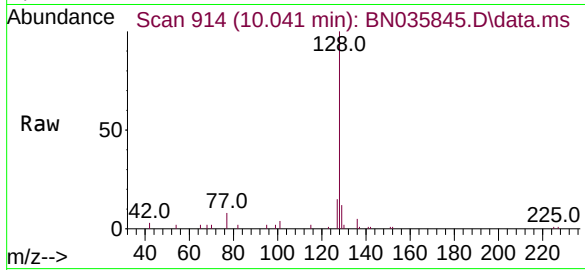
Tgt Ion: 82 Resp: 2776
Ion Ratio Lower Upper
82 100
128 48.1 33.4 50.0
54 39.1 36.7 55.1





#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

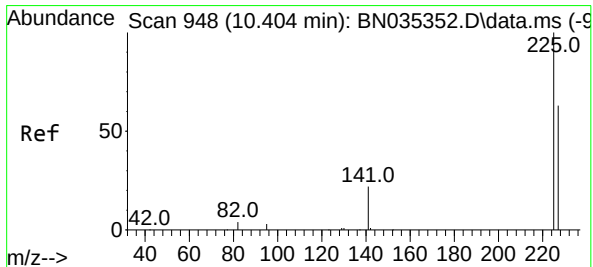
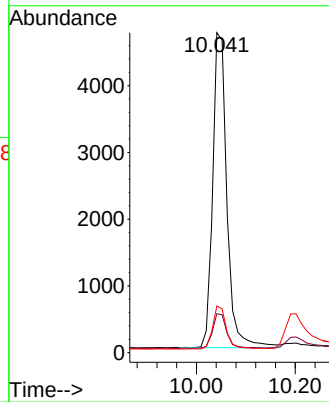
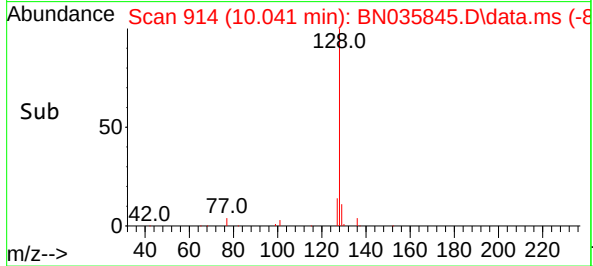
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

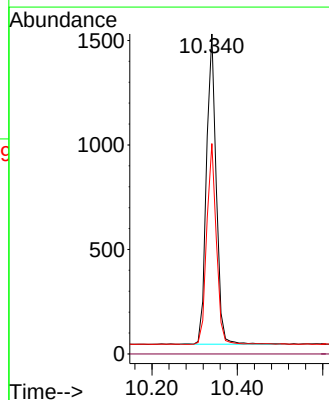
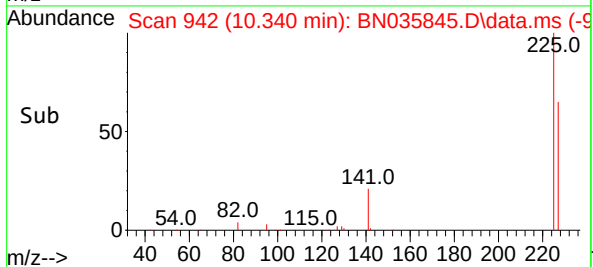
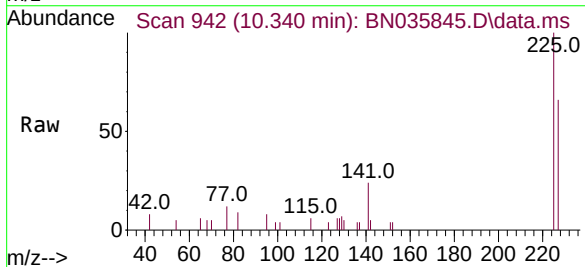
Manual Integrations
APPROVED

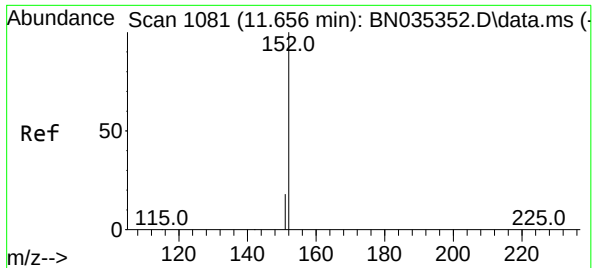
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

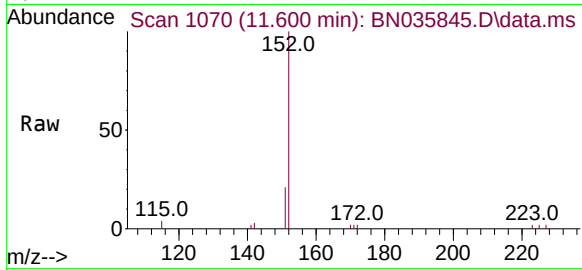
Tgt Ion:225 Resp: 2352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1080
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

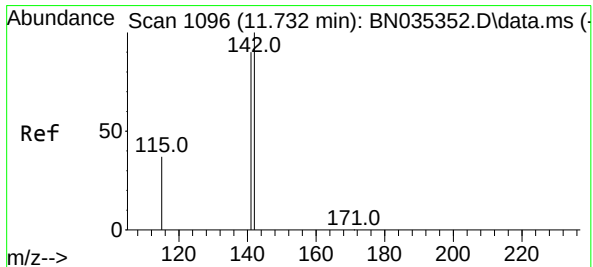
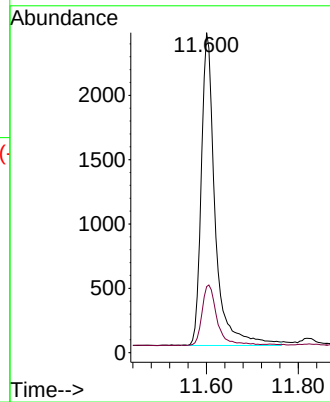
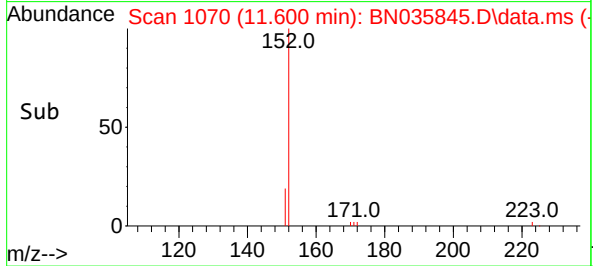
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 5080
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

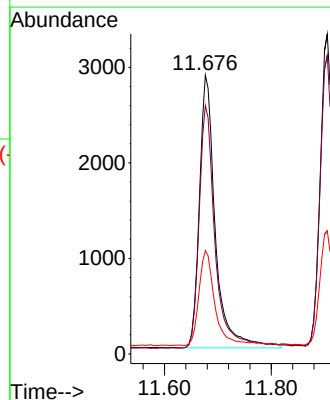
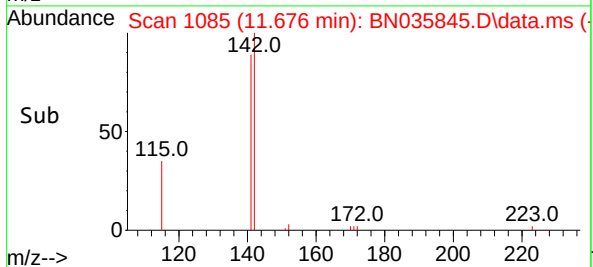
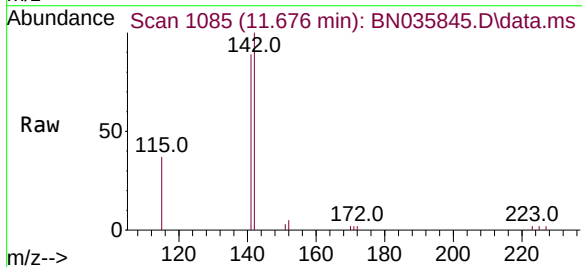
Manual Integrations
APPROVED

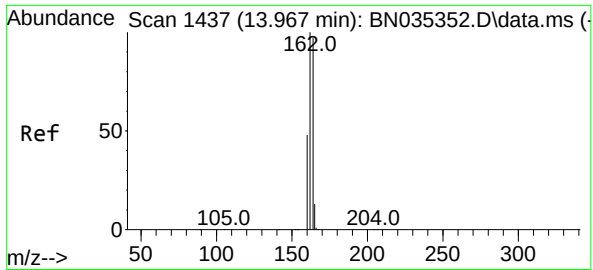
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

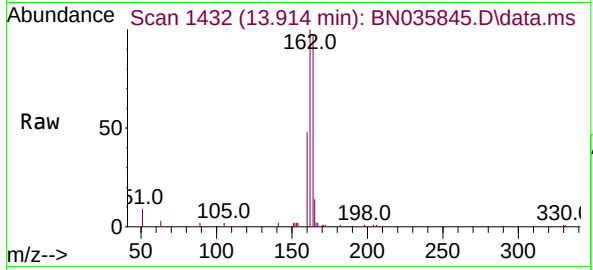
Tgt Ion:142 Resp: 5939
Ion Ratio Lower Upper
142 100
141 89.1 72.2 108.4
115 37.1 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

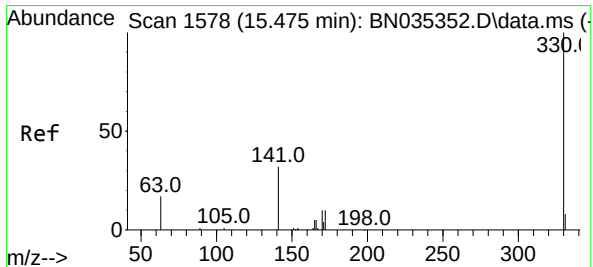
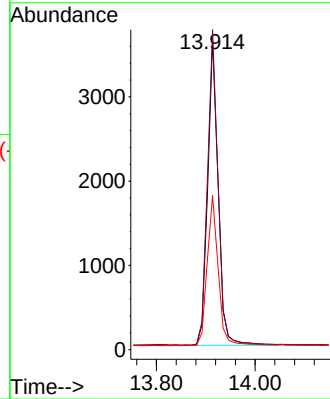
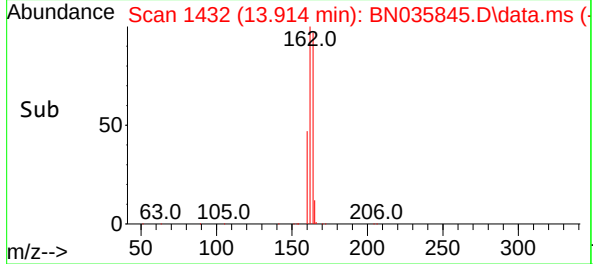
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

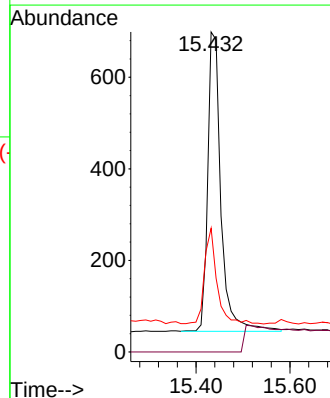
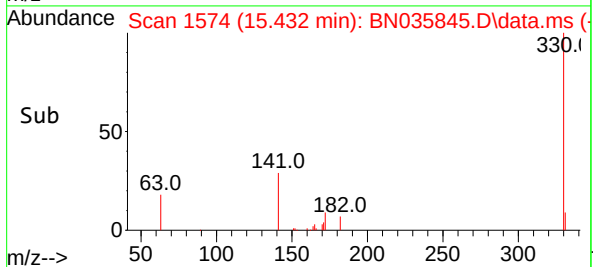
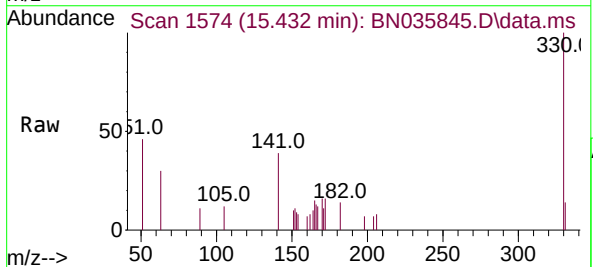
Manual Integrations
APPROVED

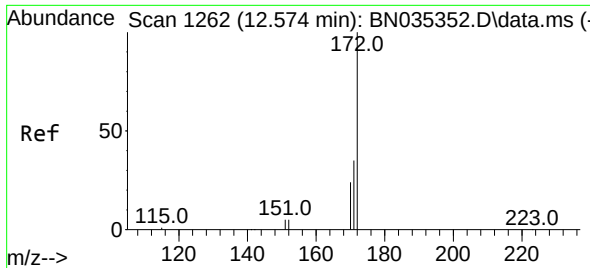
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.7 26.6 40.0





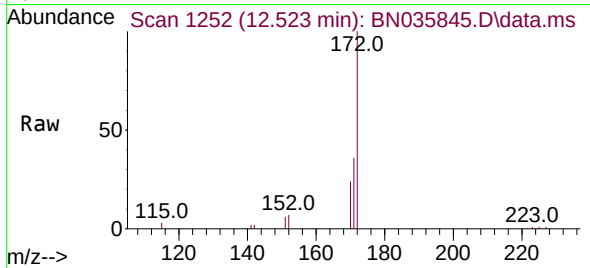
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



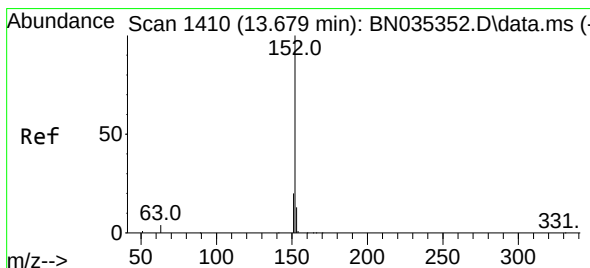
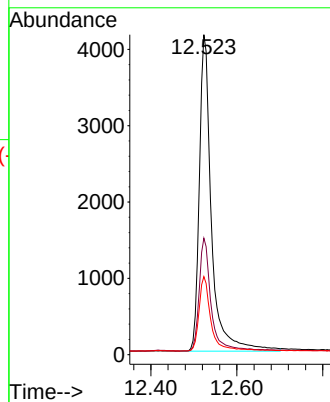
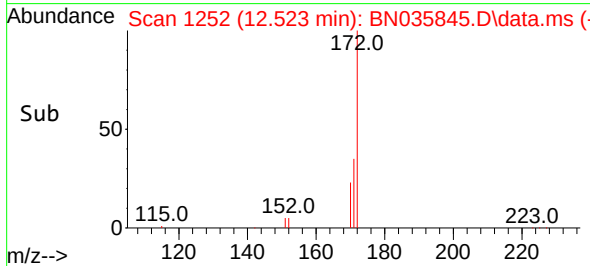
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

Manual Integrations

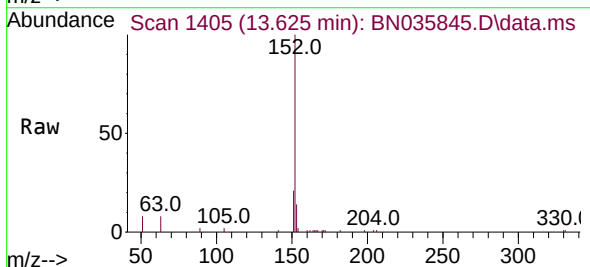
APPROVED

Reviewed By :Yogesh Patel 12/27/2024

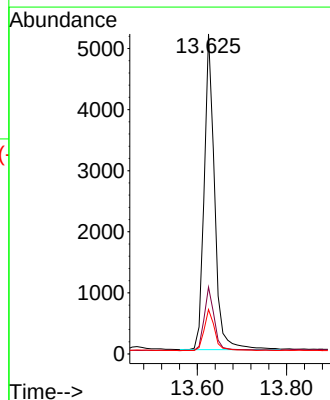
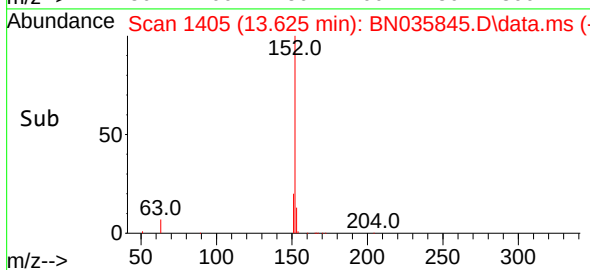
Supervised By :mohammad ahmed 12/27/2024

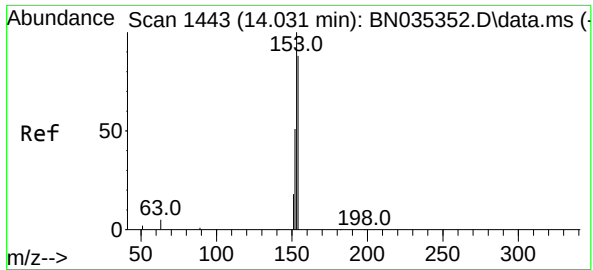


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



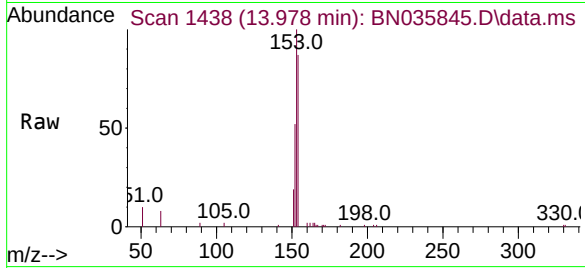
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6





#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

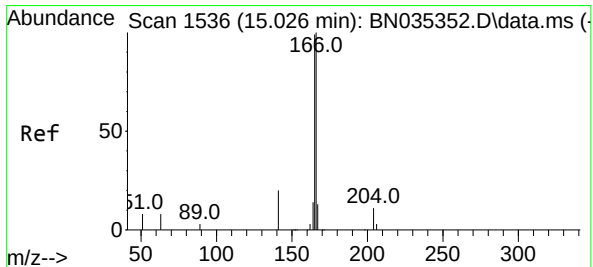
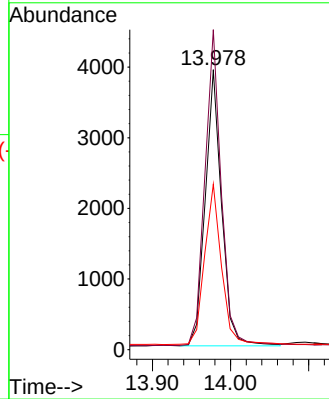
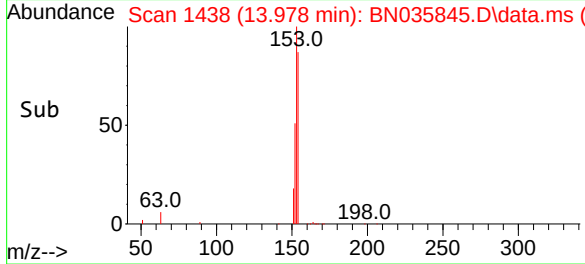
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

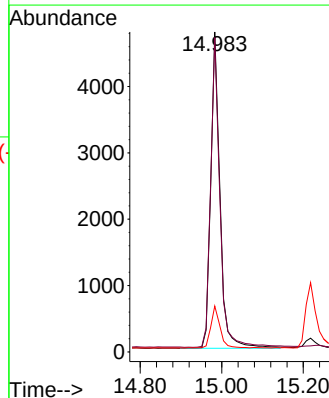
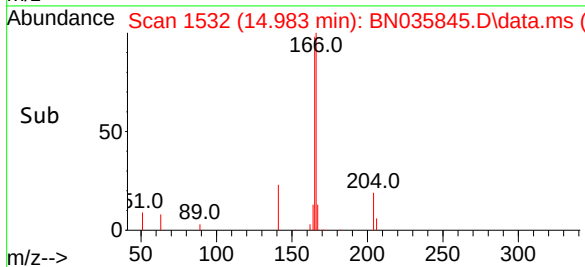
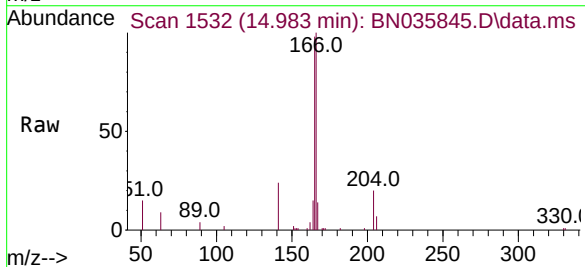
Manual Integrations
APPROVED

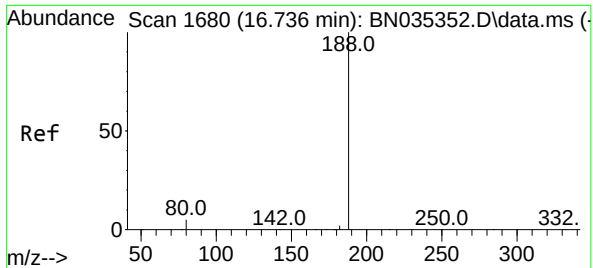
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 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

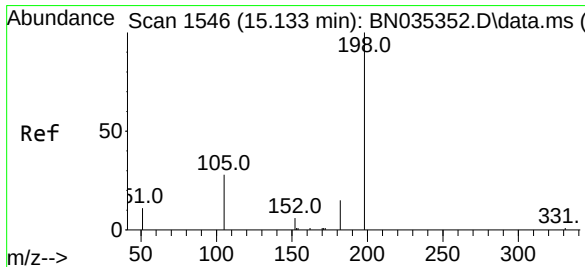
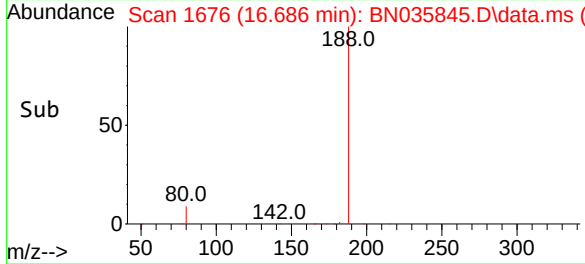
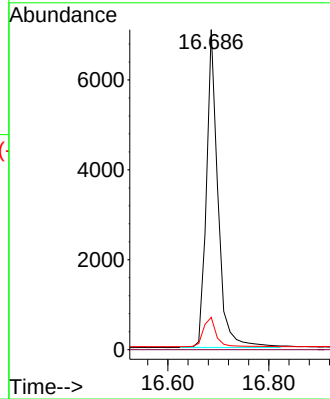
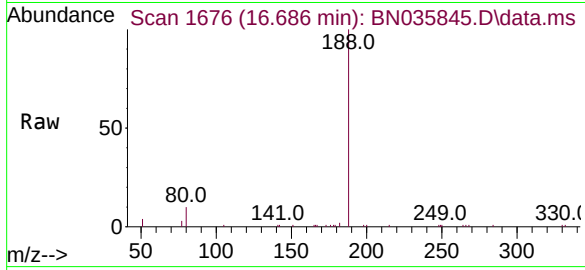
80 10.1 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.475 ng

RT: 15.100 min Scan# 1543

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

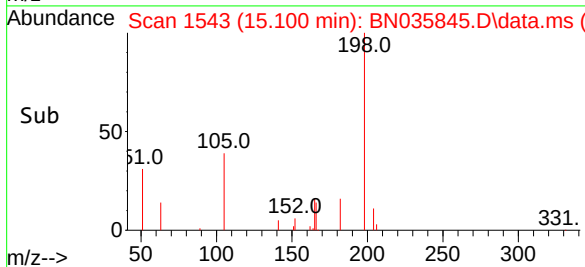
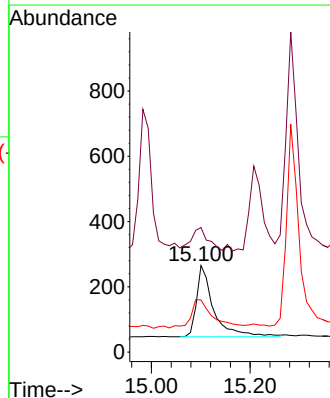
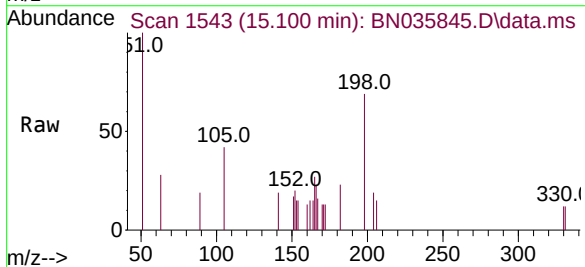
Tgt Ion:198 Resp: 526

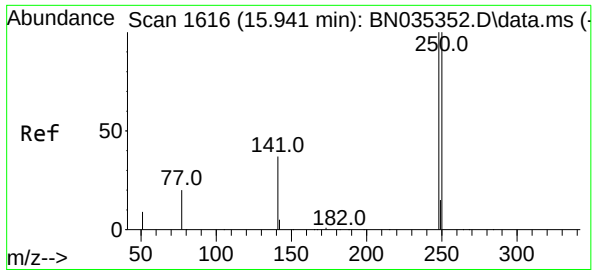
Ion Ratio Lower Upper

198 100

51 144.2 46.5 69.7

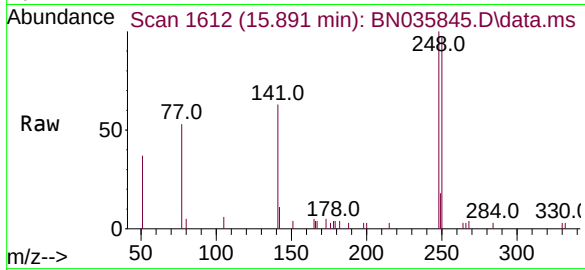
105 60.4 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

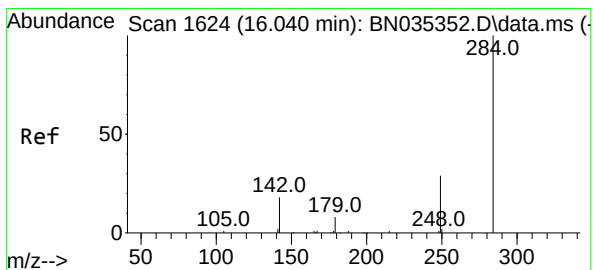
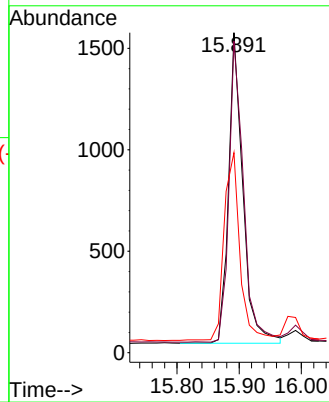
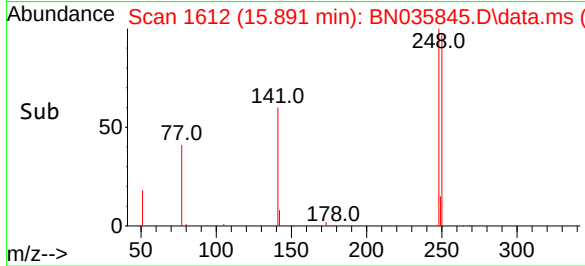
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 244
Ion Ratio Lower Upper
248 100
250 97.3 80.6 120.8
141 62.5 31.5 47.3

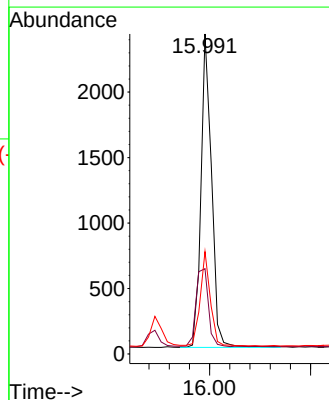
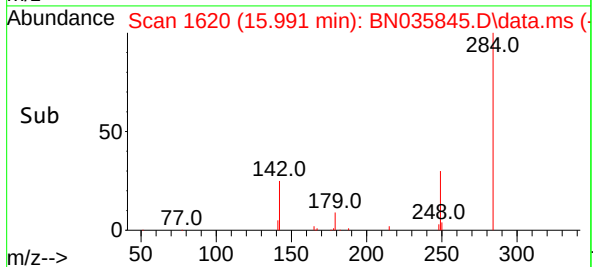
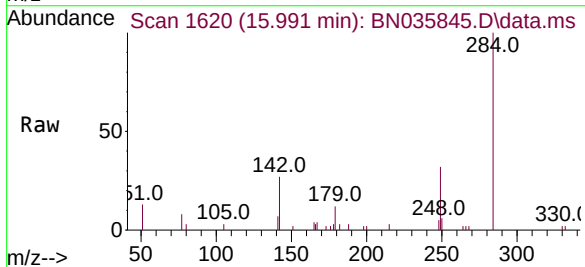
Manual Integrations
APPROVED

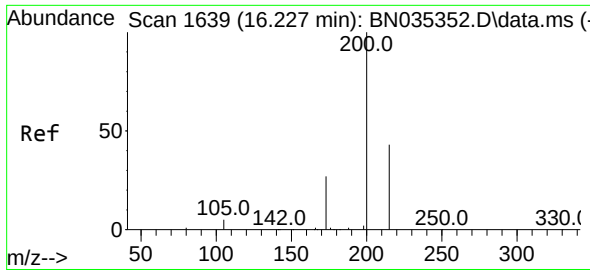
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482
Ion Ratio Lower Upper
284 100
142 29.6 26.7 40.1
249 28.9 24.6 36.8





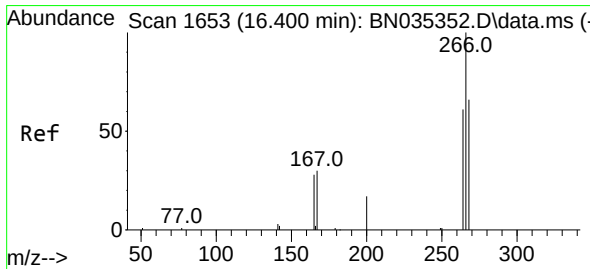
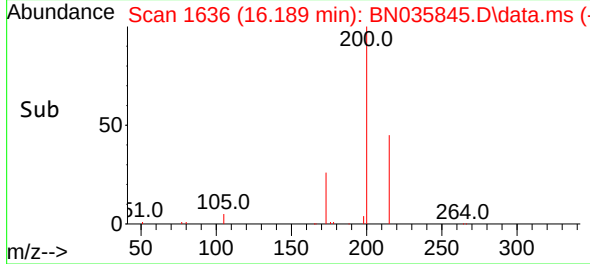
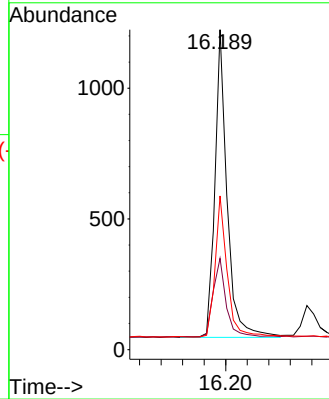
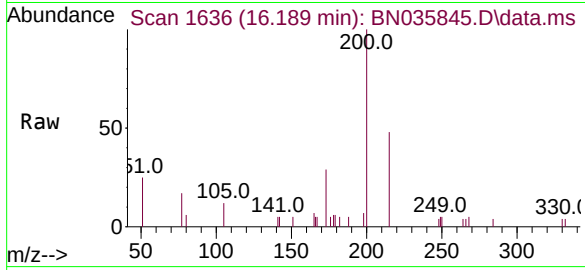
#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

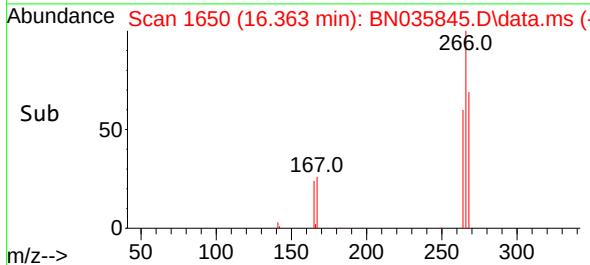
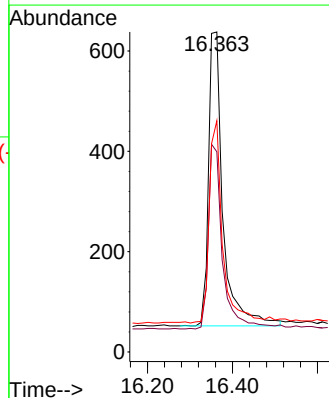
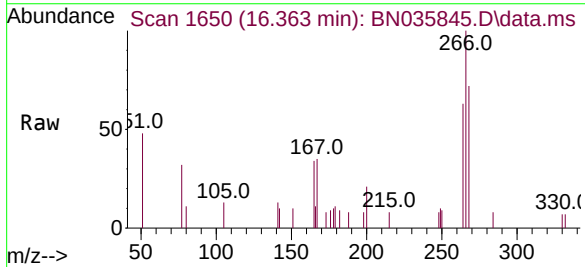
Manual Integrations
APPROVED

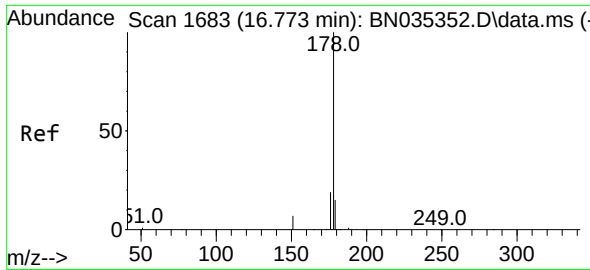
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383
Ion Ratio Lower Upper
266 100
264 61.3 42.3 63.5
268 63.8 43.3 64.9





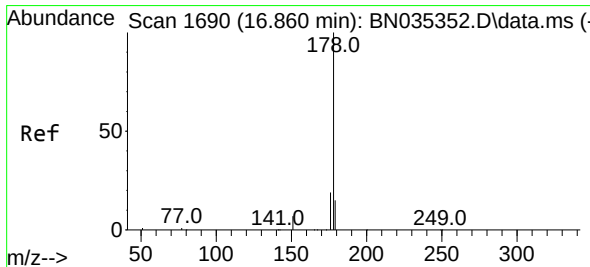
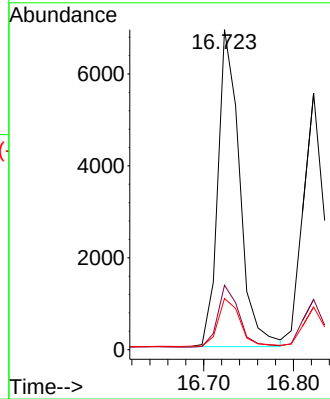
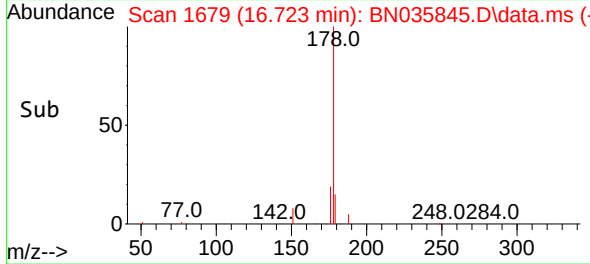
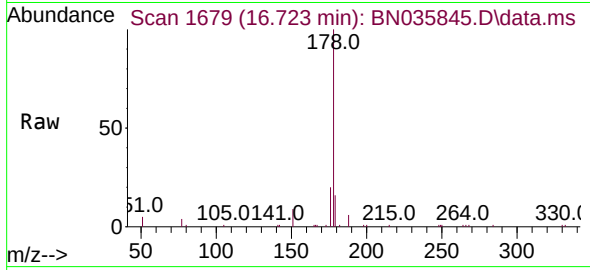
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

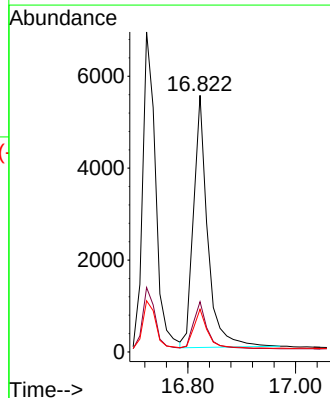
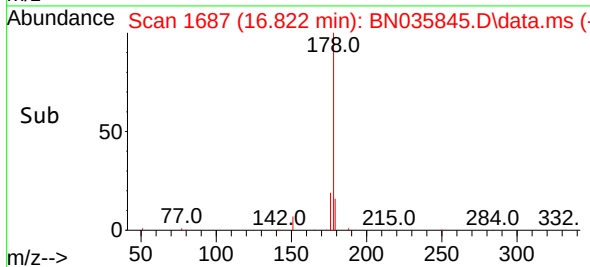
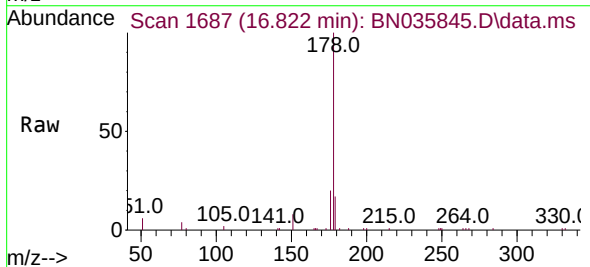
Manual Integrations
APPROVED

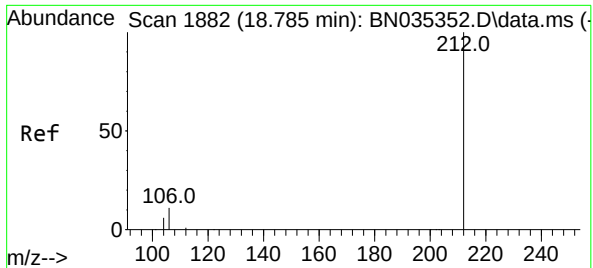
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

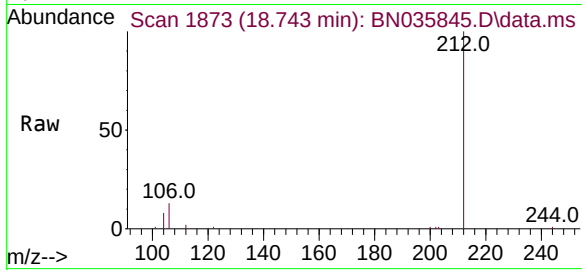
Tgt Ion:178 Resp: 10005
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1873
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

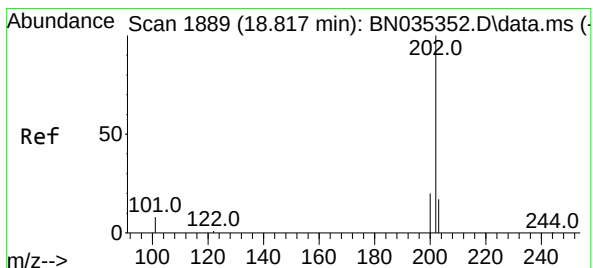
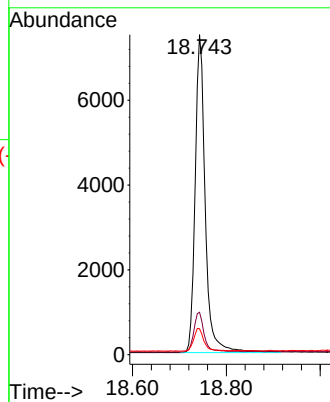
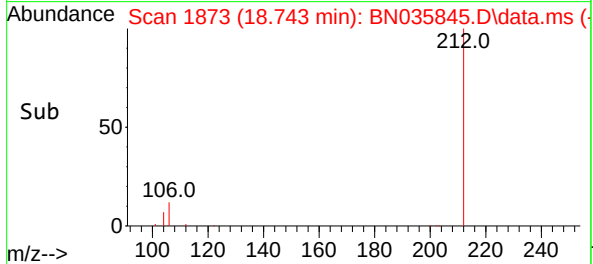
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



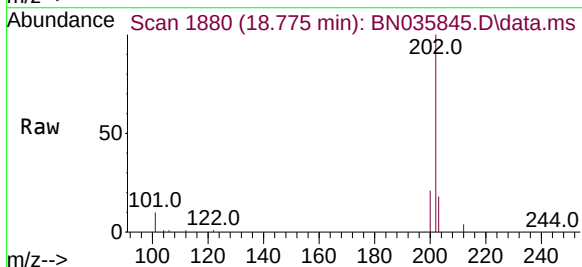
Tgt Ion:212 Resp: 1116
Ion Ratio Lower Upper
212 100
106 12.7 9.2 13.8
104 7.4 5.3 7.9

Manual Integrations
APPROVED

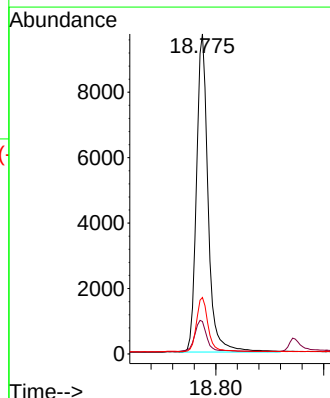
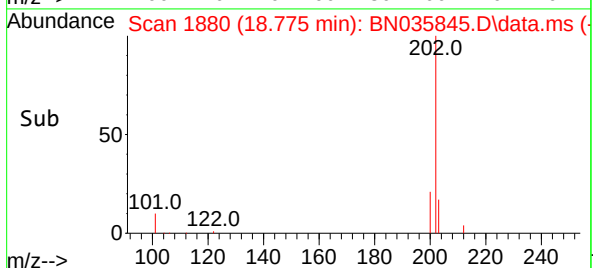
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

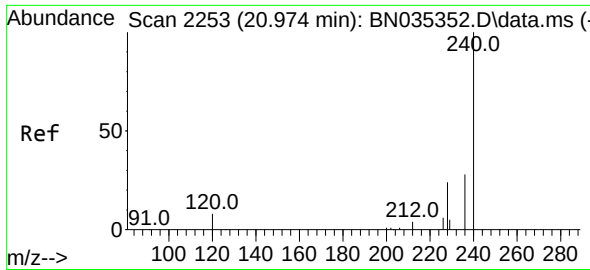


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



Tgt Ion:202 Resp: 14489
Ion Ratio Lower Upper
202 100
101 10.7 7.4 11.0
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

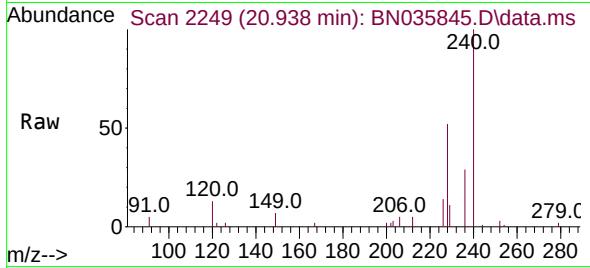
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:240 Resp: 993

Ion Ratio Lower Upper

240 100

120 12.7 7.9 11.9

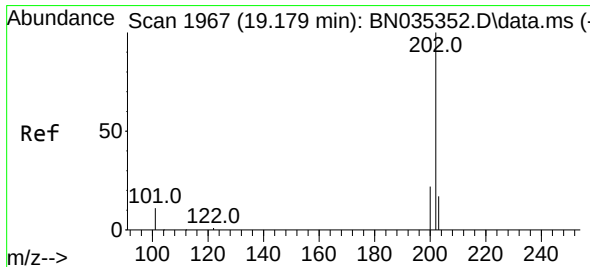
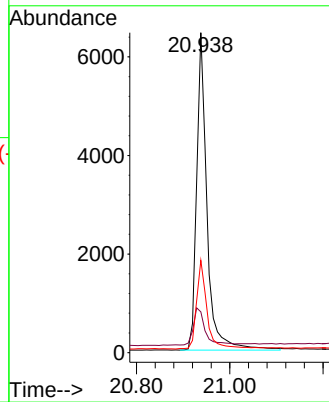
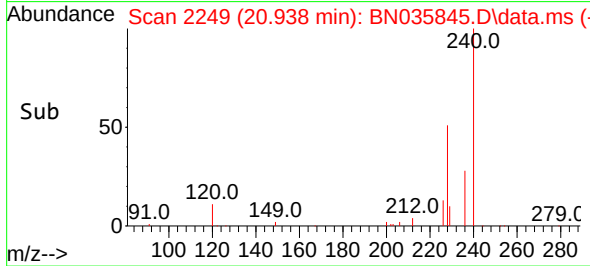
236 28.9 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#30

Pyrene

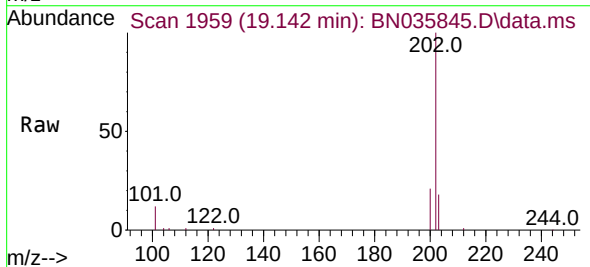
Concen: 0.417 ng

RT: 19.142 min Scan# 1959

Delta R.T. -0.019 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58



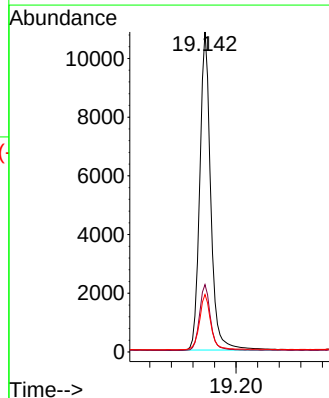
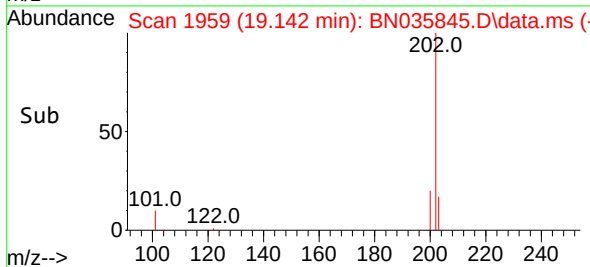
Tgt Ion:202 Resp: 15278

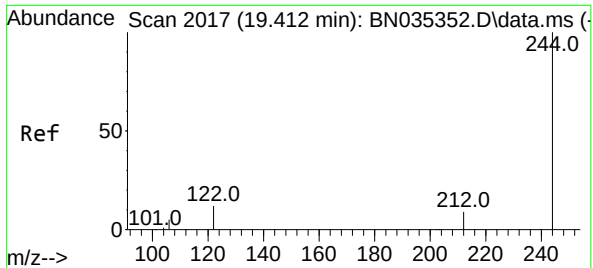
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.9 14.3 21.5





#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

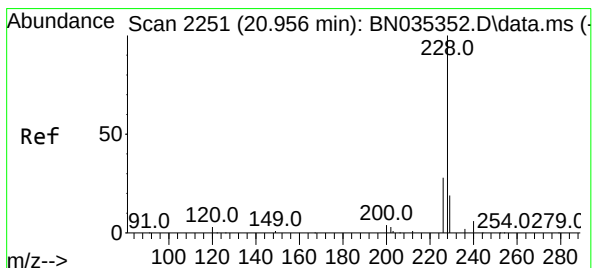
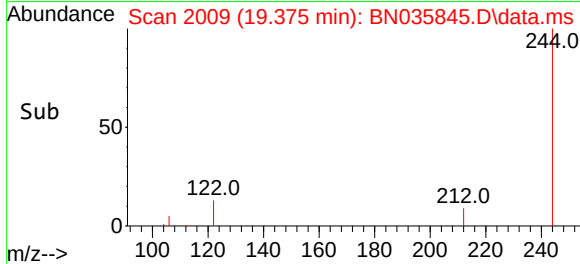
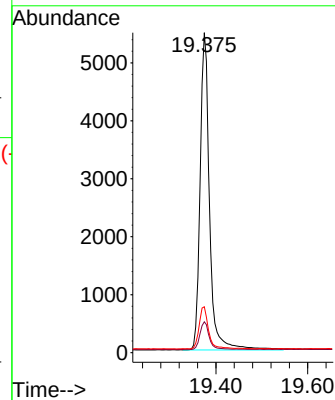
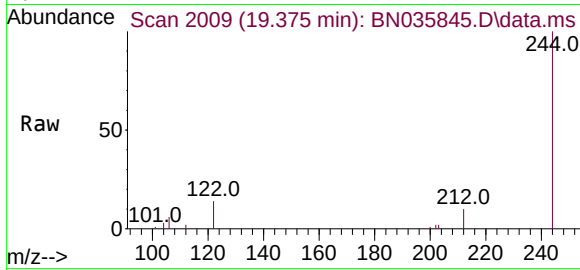
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

Manual Integrations

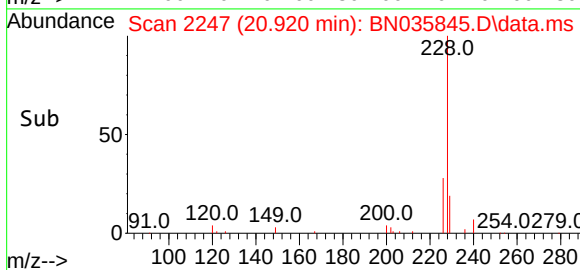
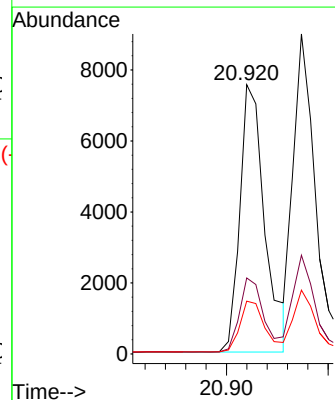
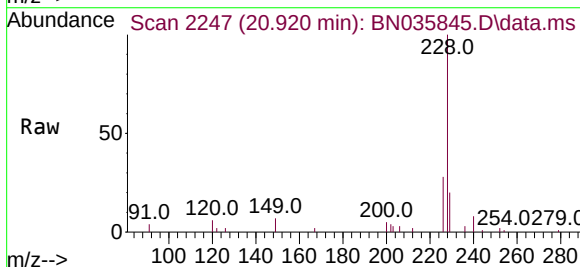
APPROVED

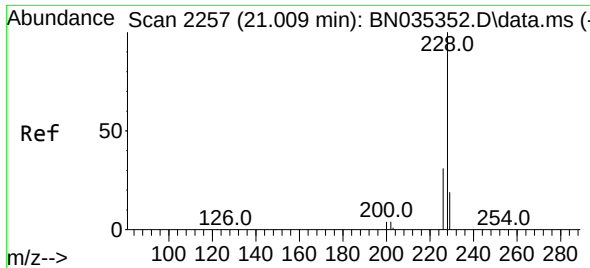
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

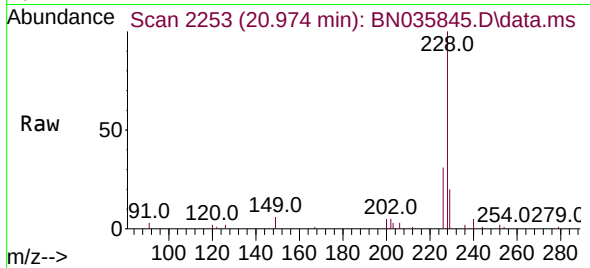
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8





#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 211
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

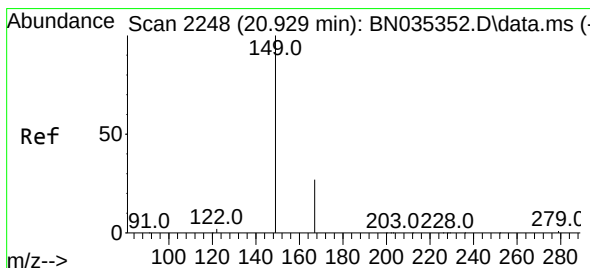
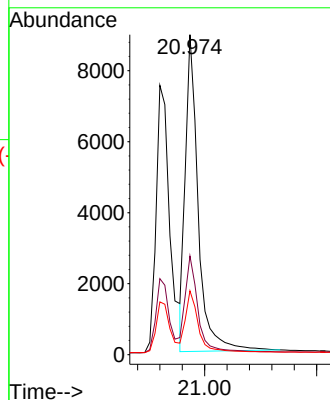
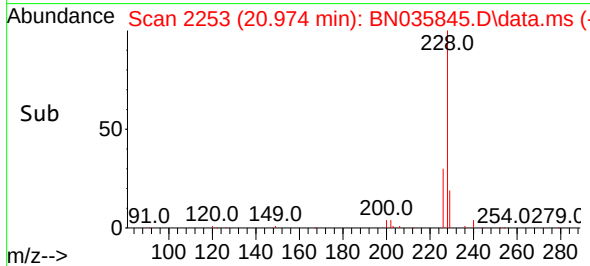
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

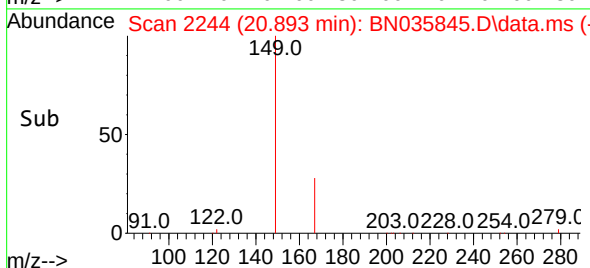
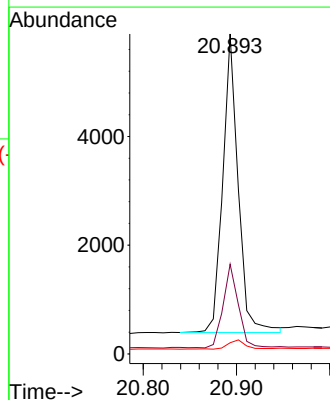
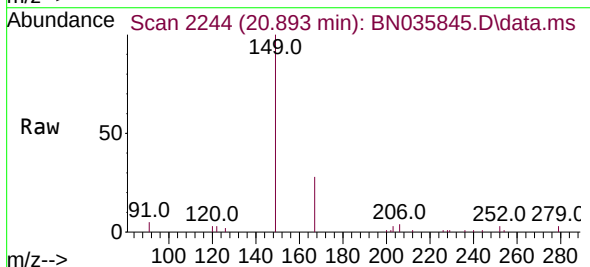
Manual Integrations
APPROVED

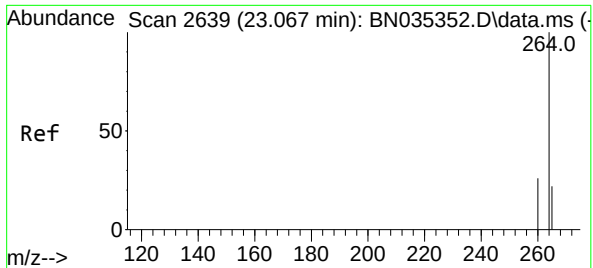
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

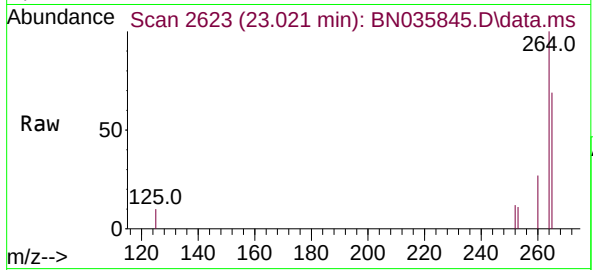
Tgt Ion:149 Resp: 6282
Ion Ratio Lower Upper
149 100
167 27.6 22.2 33.4
279 3.4 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2623
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

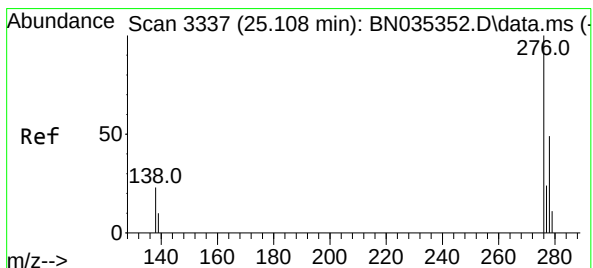
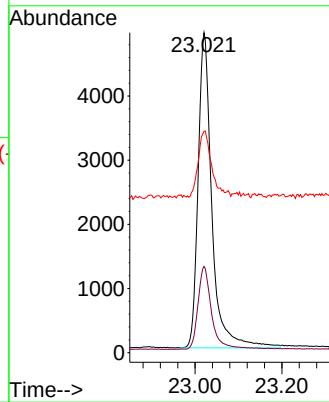
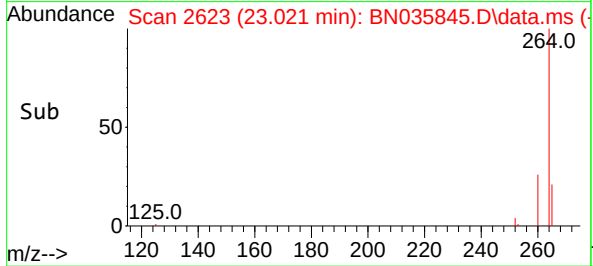
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

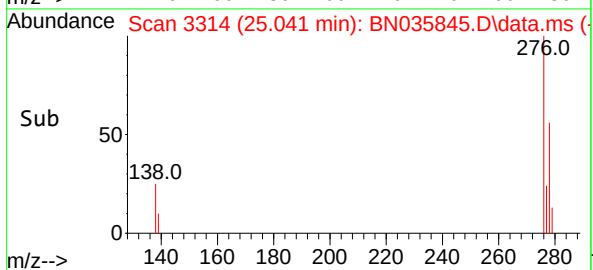
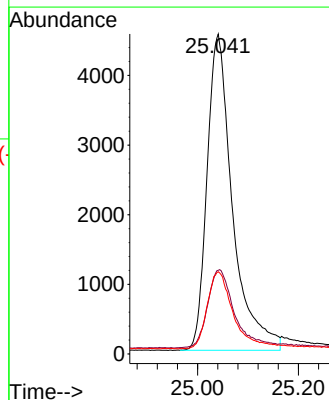
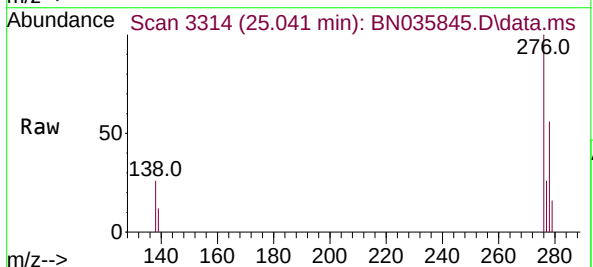
Manual Integrations
APPROVED

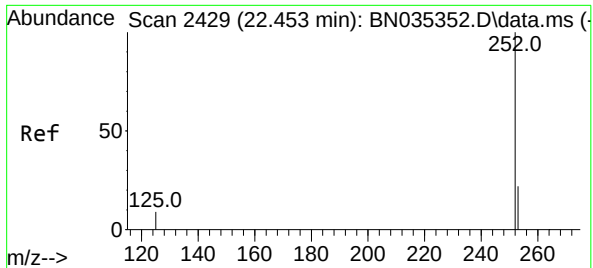
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946
Ion Ratio Lower Upper
276 100
138 26.4 19.4 29.0
277 25.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.494 ng

RT: 22.412 min Scan# 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

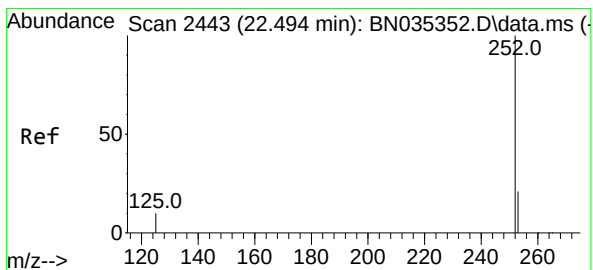
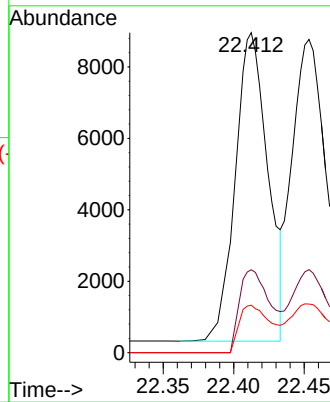
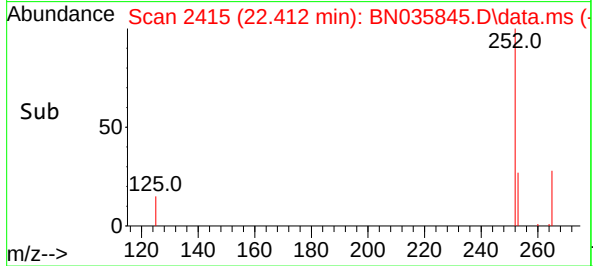
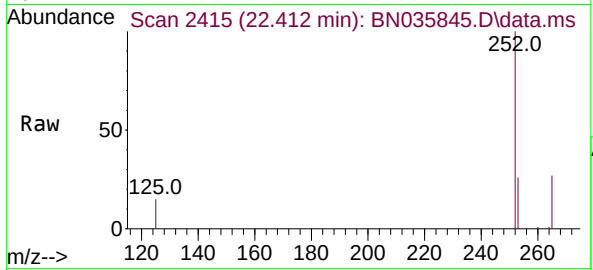
125 14.9 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.423 ng m

RT: 22.453 min Scan# 2429

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

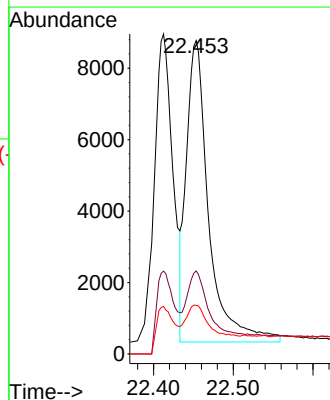
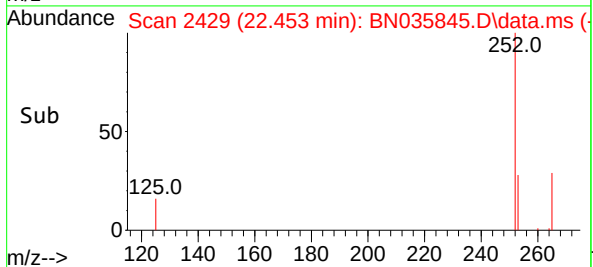
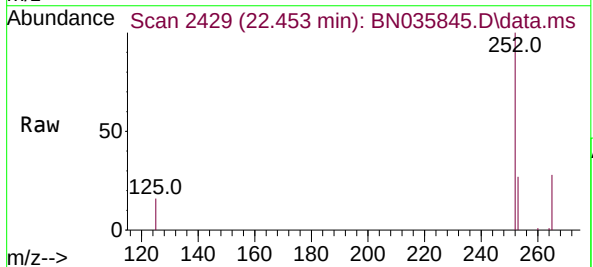
Tgt Ion:252 Resp: 16469

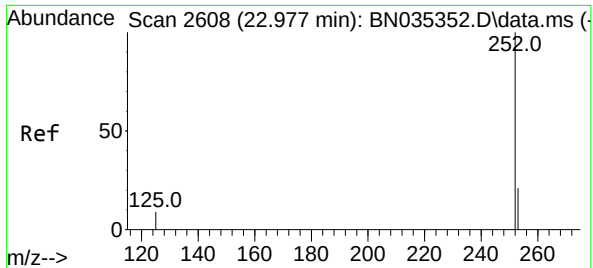
Ion Ratio Lower Upper

252 100

253 26.5 19.5 29.3

125 15.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

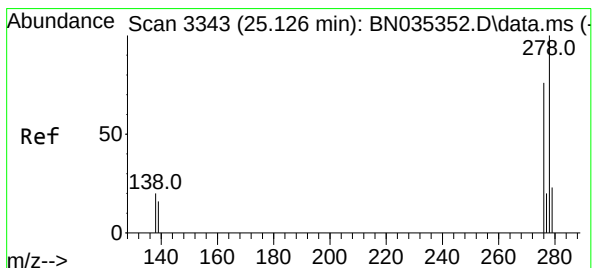
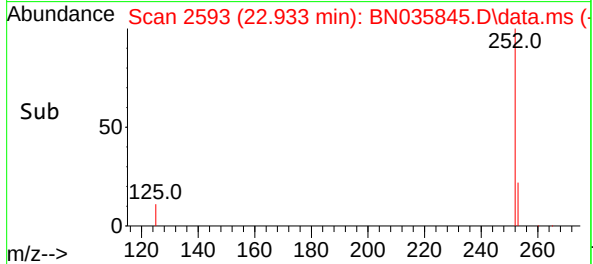
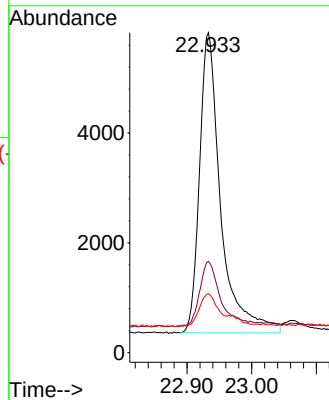
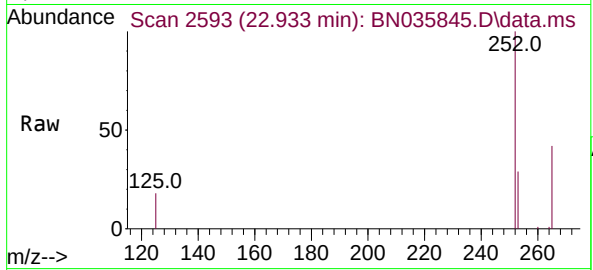
Tgt Ion:	252	Resp:	1245
Ion Ratio	Lower	Upper	
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

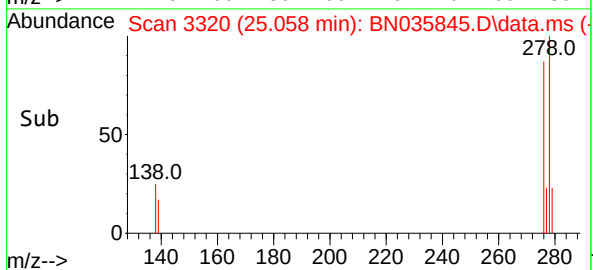
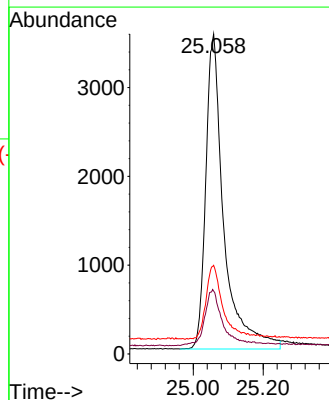
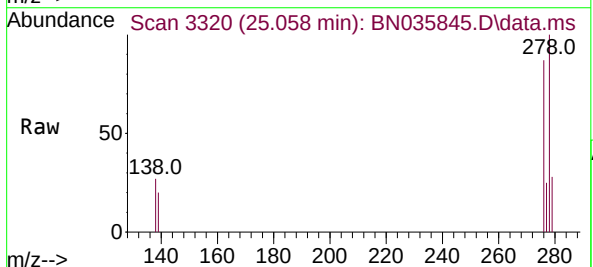
RT: 25.058 min Scan# 3320

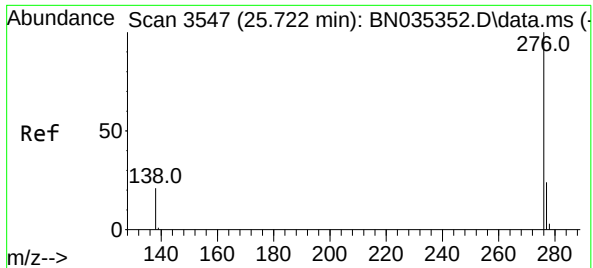
Delta R.T. -0.024 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Tgt Ion:	278	Resp:	12678
Ion Ratio	Lower	Upper	
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.419 ng

RT: 25.646 min Scan# 31

Delta R.T. -0.032 min

Lab File: BN035845.D

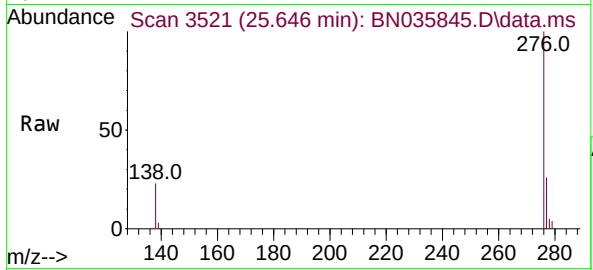
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 14614

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

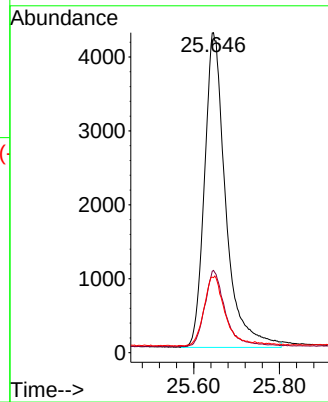
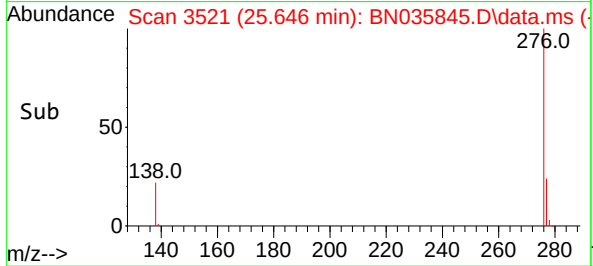
138 23.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



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: TETR06

Lab Code: CHEM Case No.: P5282 SAS No.: P5282 SDG No.: P5282

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	50.0
Fluoranthene-d10	1.134	0.922		-18.7	50.0
2-Fluorophenol	1.001	0.931		-7.0	50.0
Phenol-d6	1.204	1.022		-15.1	50.0
Nitrobenzene-d5	0.244	0.306		25.4	50.0
2-Fluorobiphenyl	1.512	1.480		-2.1	50.0
2,4,6-Tribromophenol	0.284	0.225		-20.8	50.0
Terphenyl-d14	0.789	0.898		13.8	50.0
1,4-Dioxane	0.382	0.394		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035861.D
 Acq On : 26 Dec 2024 19:41
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

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

Quant Time: Dec 27 00:42:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	2874	0.372	ng	-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2215m	0.501	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng	-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng	-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng	96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	# 90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng	98
9) Naphthalene	10.052	128	7516	0.394	ng	100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	# 99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng	99
16) Acenaphthylene	13.625	152	6923	0.369	ng	100
17) Acenaphthene	13.978	154	4776	0.383	ng	99
18) Fluorene	14.983	166	6478	0.363	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	# 67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	# 96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng	98
23) Atrazine	16.202	200	1507	0.386	ng	94
24) Pentachlorophenol	16.363	266	846	0.302	ng	# 84
25) Phenanthrene	16.736	178	9697	0.377	ng	100
26) Anthracene	16.822	178	8100	0.348	ng	99
28) Fluoranthene	18.780	202	11145	0.321	ng	99
30) Pyrene	19.147	202	11492	0.517	ng	99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng	99
33) Chrysene	20.983	228	9578	0.441	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng	99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng	98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	# 92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	# 90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	# 82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	# 91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng	95

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

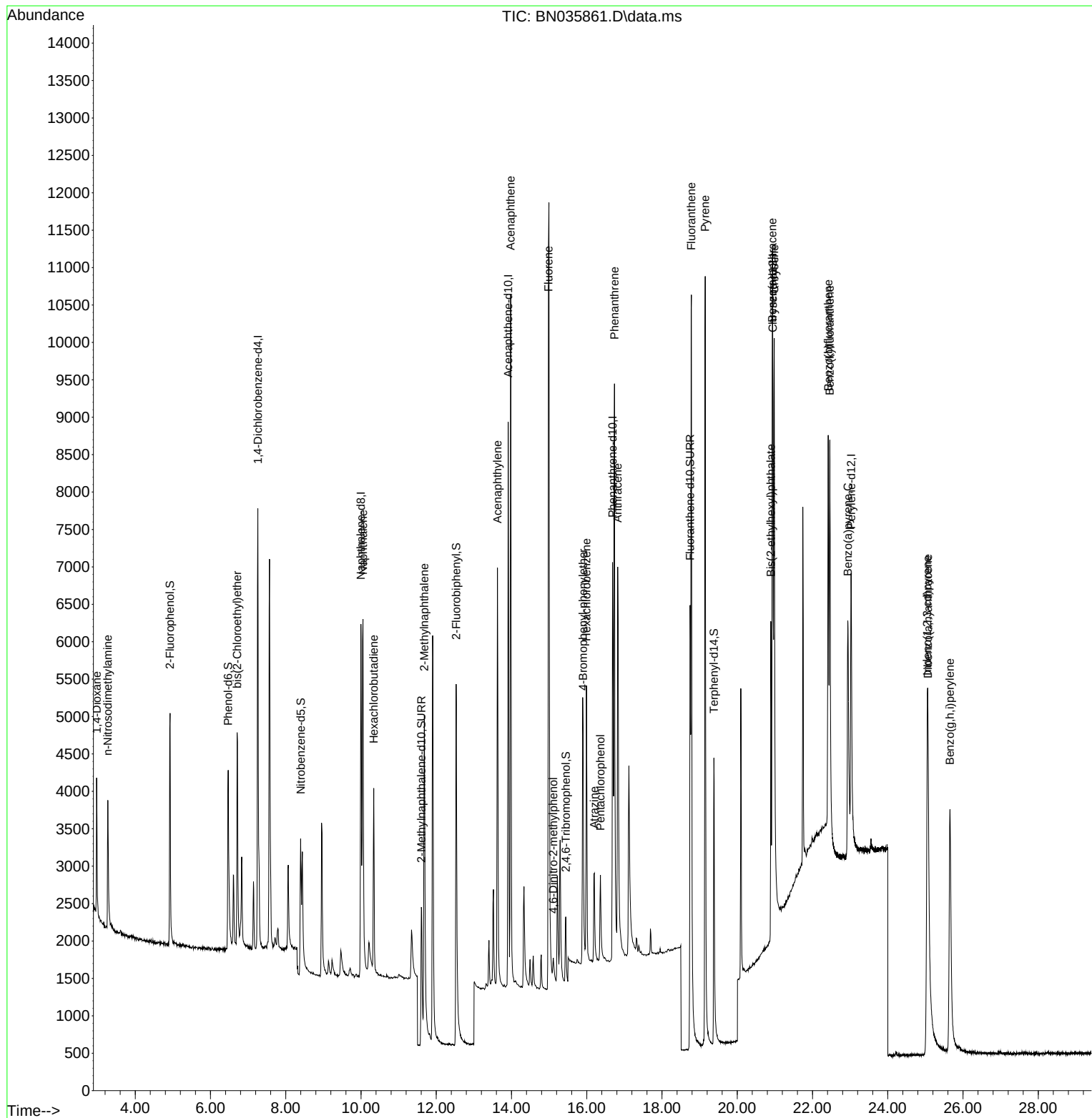
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

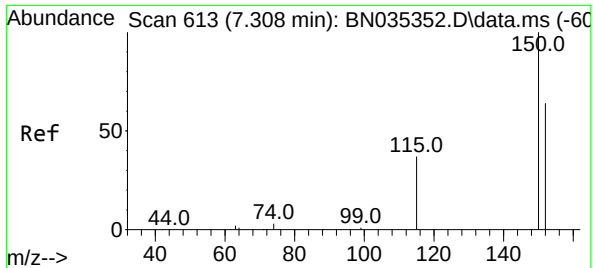
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

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

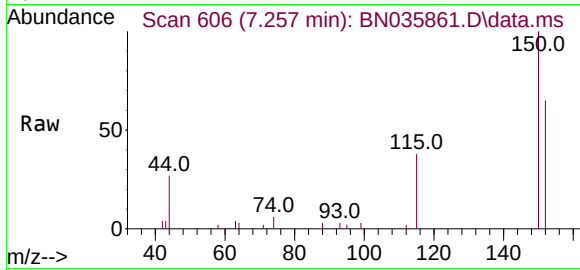
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#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

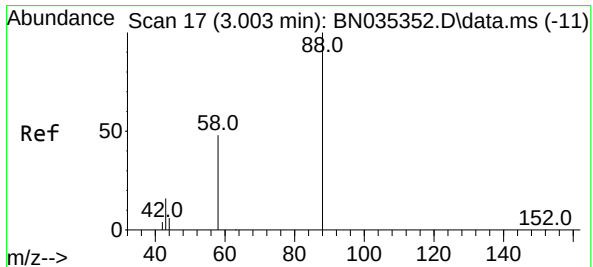
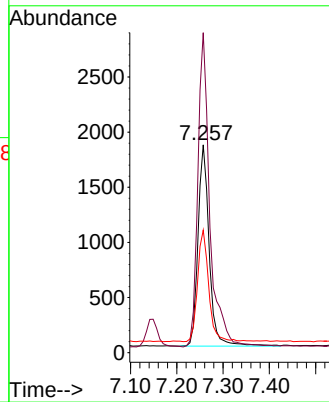
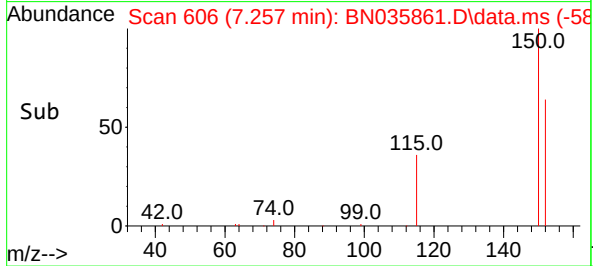
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

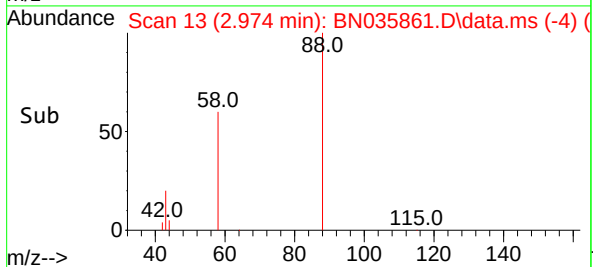
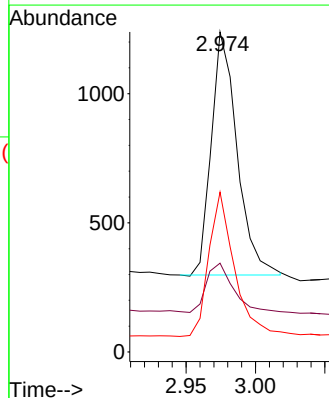
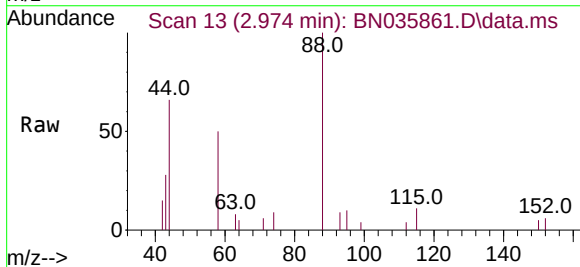
Manual Integrations
APPROVED

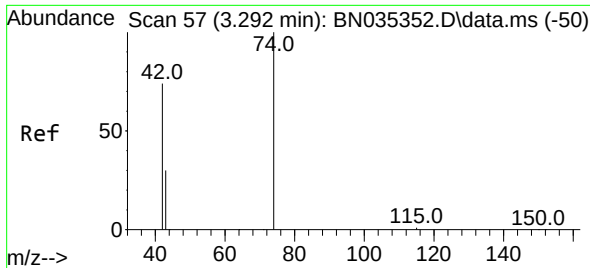
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215
Ion Ratio Lower Upper
88 100
43 20.1 17.2 25.8
58 59.1 44.5 66.7





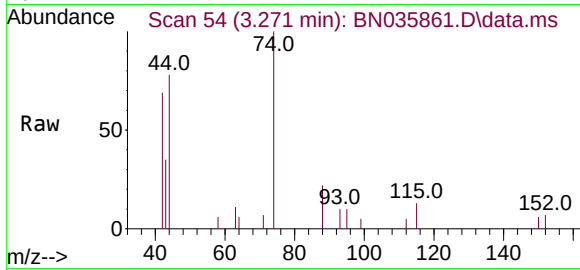
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

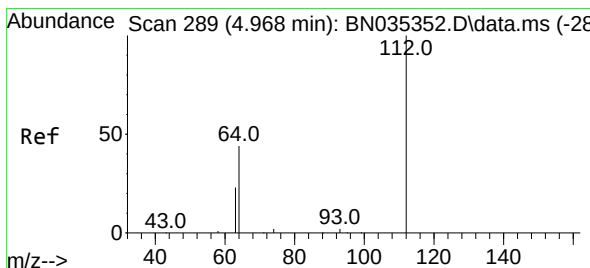
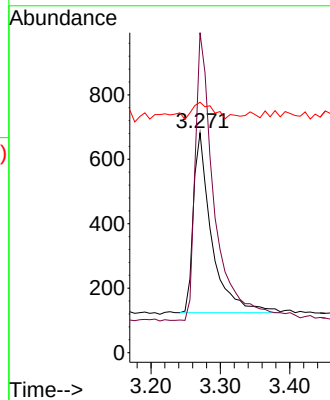
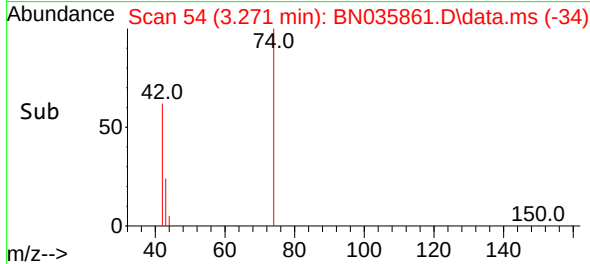


Tgt Ion: 42 Resp: 102
Ion Ratio Lower Upper
42 100
74 169.1 124.9 187.3
44 10.6 2.2 3.4

Manual Integrations

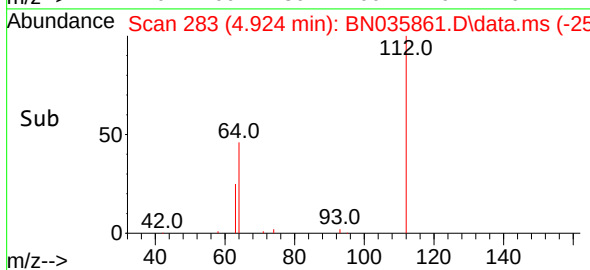
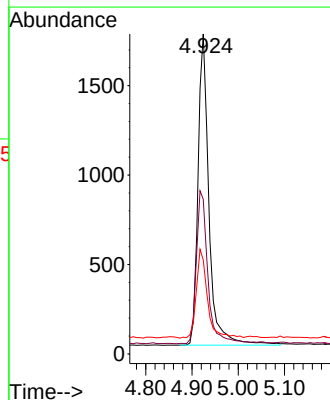
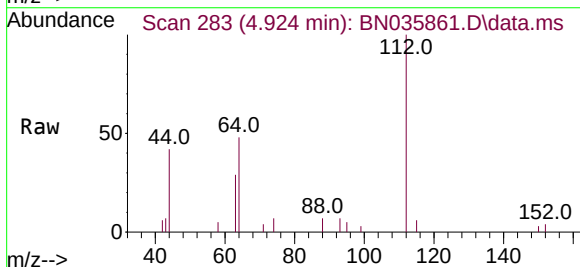
APPROVED

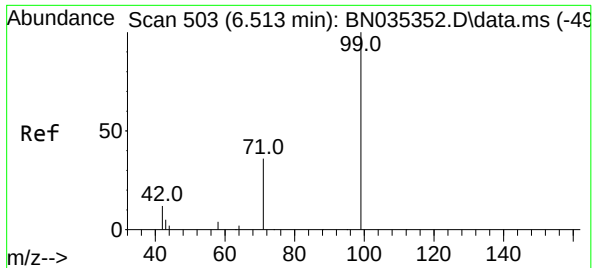
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

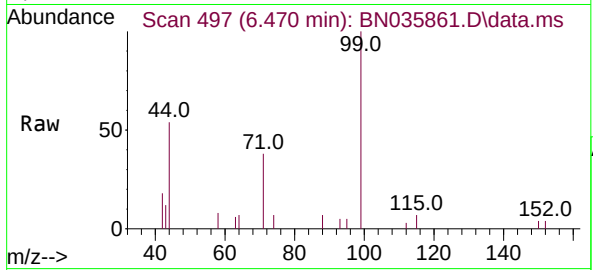
Tgt Ion:112 Resp: 2874
Ion Ratio Lower Upper
112 100
64 51.6 39.8 59.8
63 28.9 21.0 31.6





#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

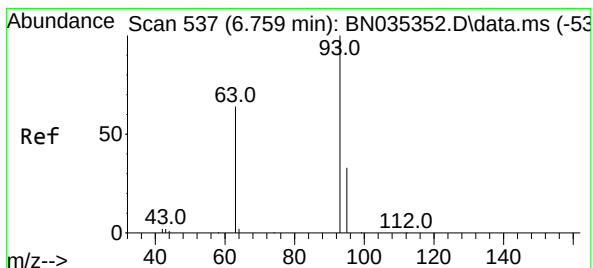
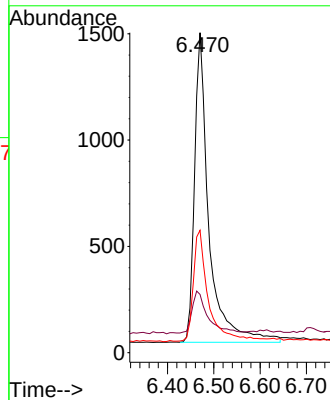
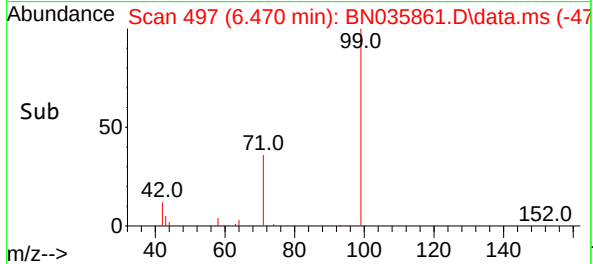
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

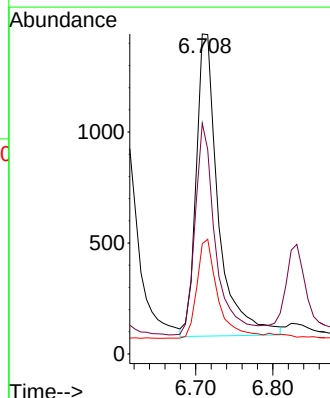
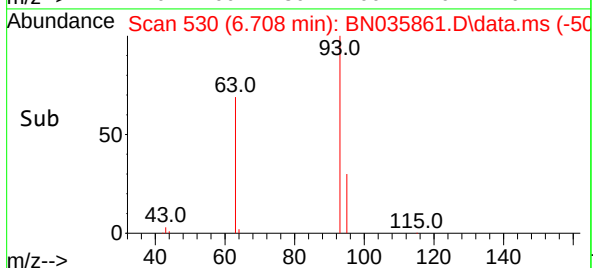
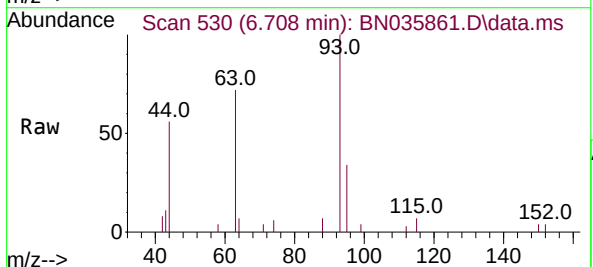
Manual Integrations
APPROVED

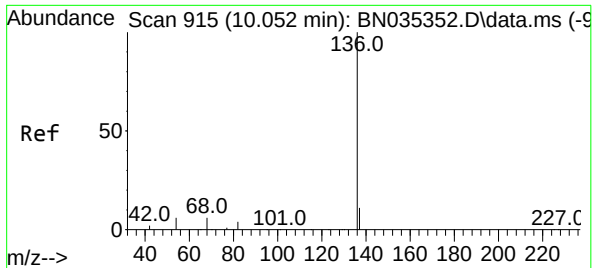
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725
Ion Ratio Lower Upper
93 100
63 64.1 50.4 75.6
95 31.0 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

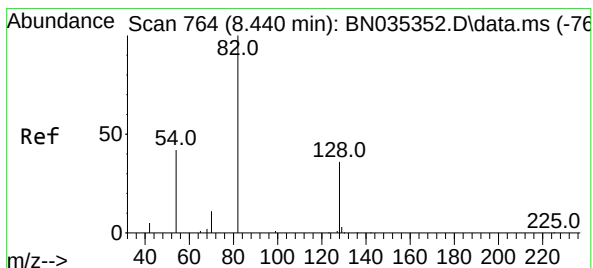
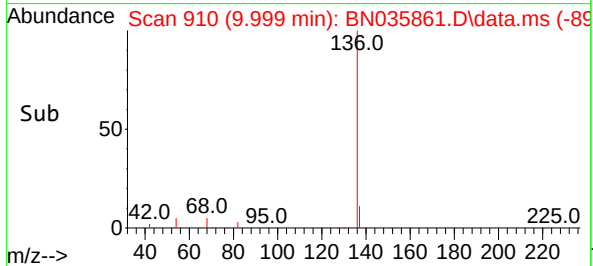
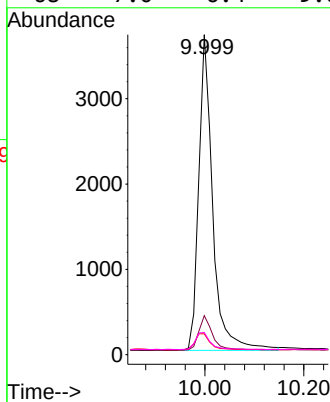
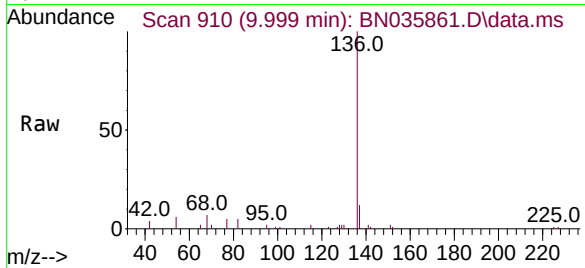
SSTDCCC0.4EC

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

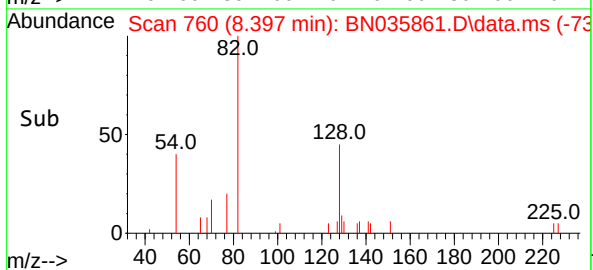
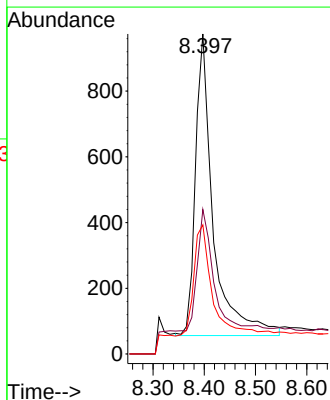
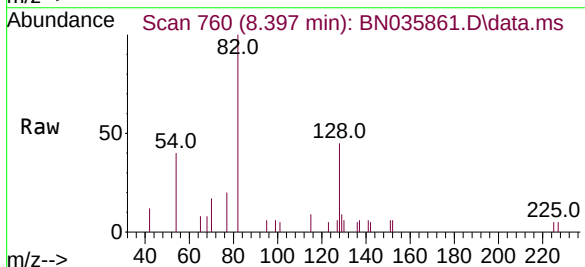
APPROVED

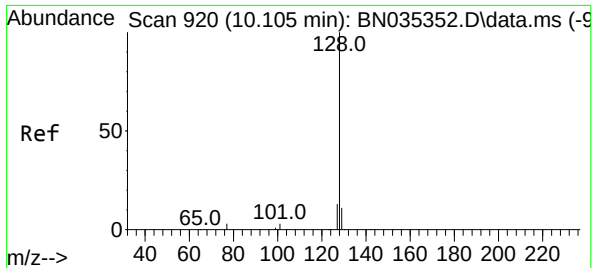
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

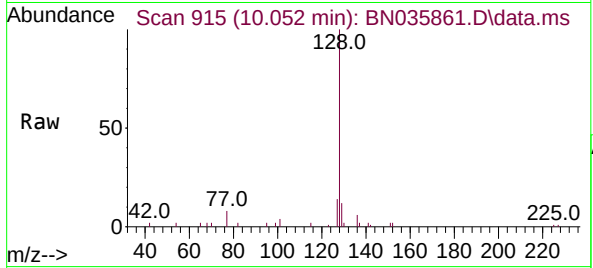
Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1





#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

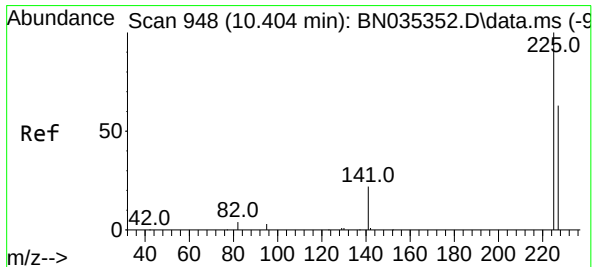
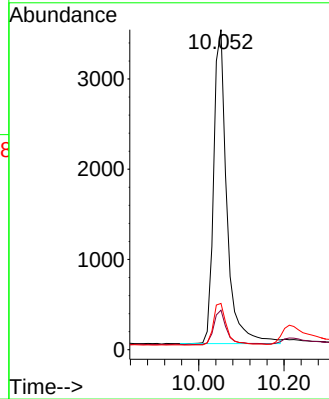
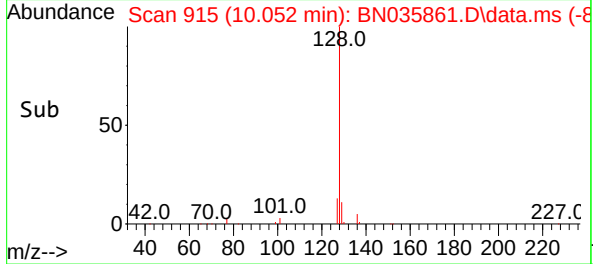
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

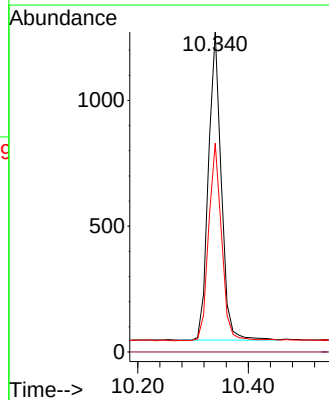
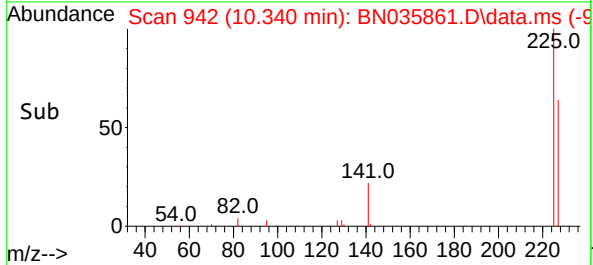
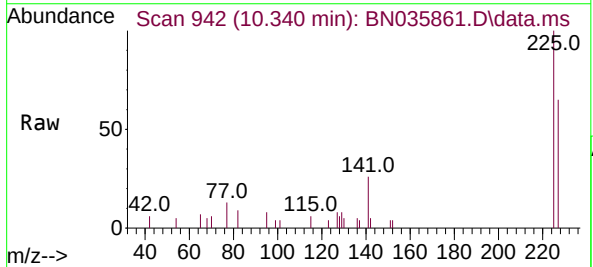
Manual Integrations
APPROVED

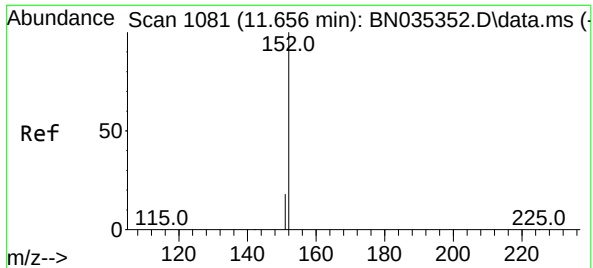
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

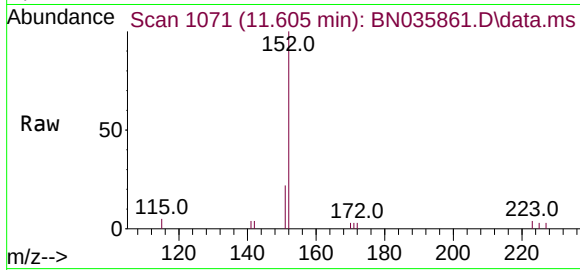
Tgt Ion:225 Resp: 1992
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

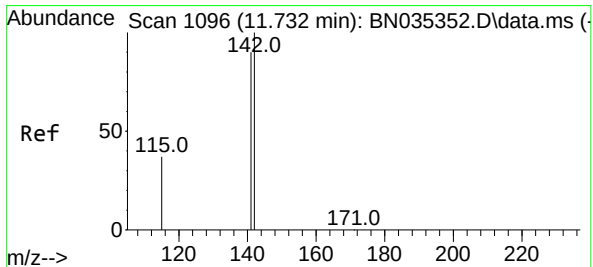
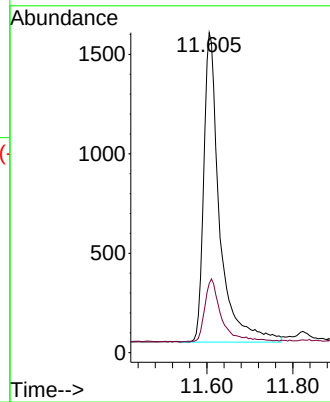
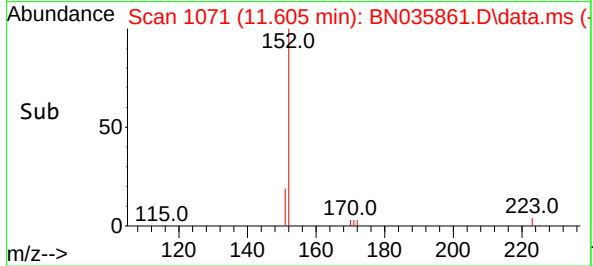
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 398
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0

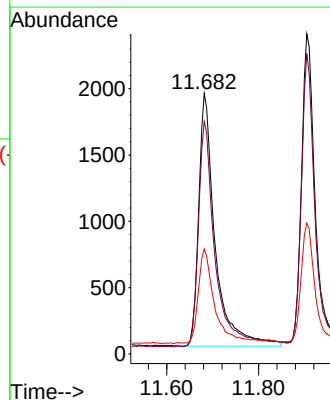
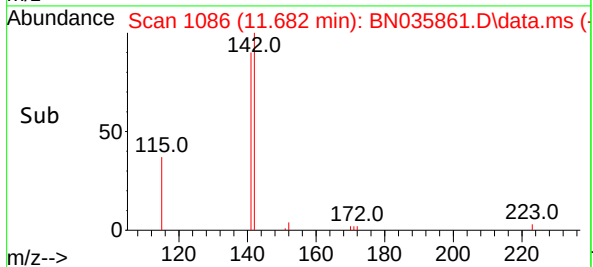
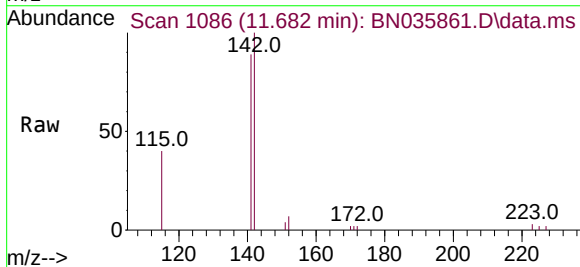
Manual Integrations
APPROVED

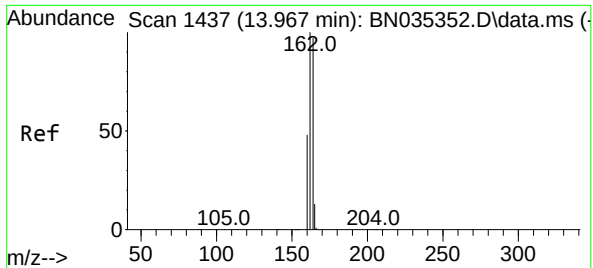
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

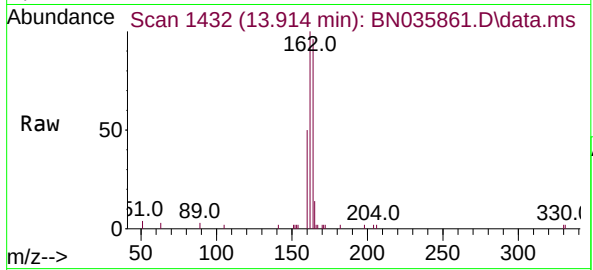
Tgt Ion:142 Resp: 4745
Ion Ratio Lower Upper
142 100
141 89.2 72.2 108.4
115 40.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

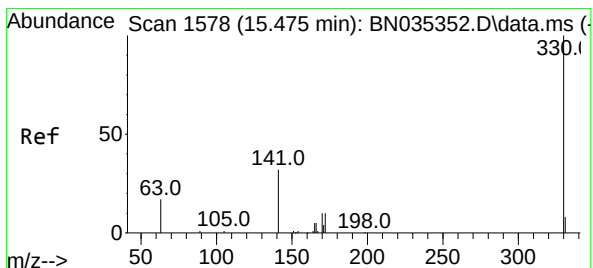
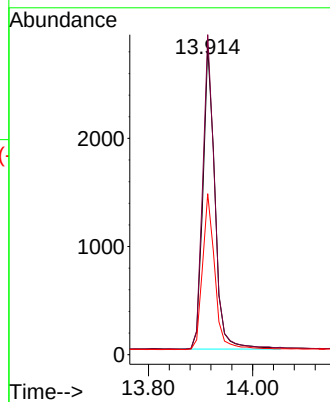
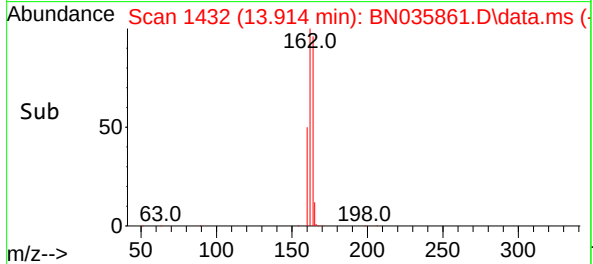
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

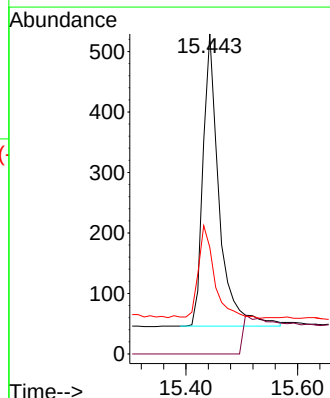
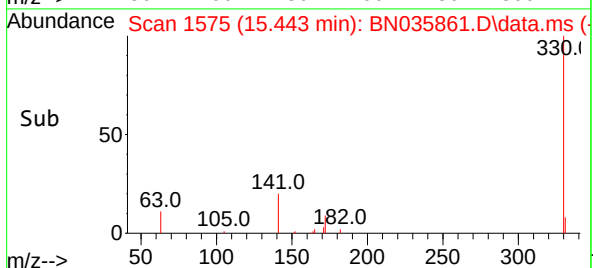
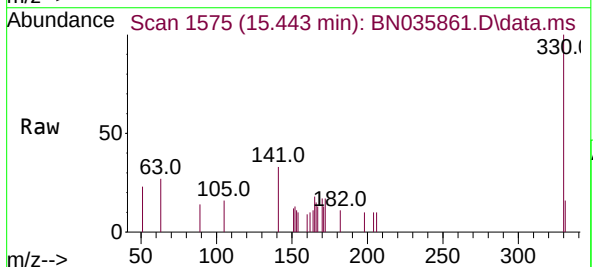
Manual Integrations
APPROVED

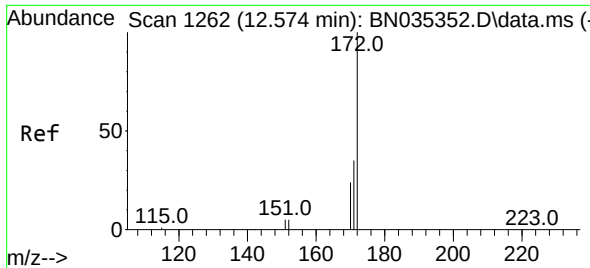
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.5 26.6 40.0





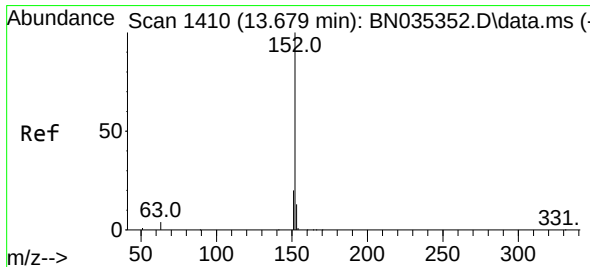
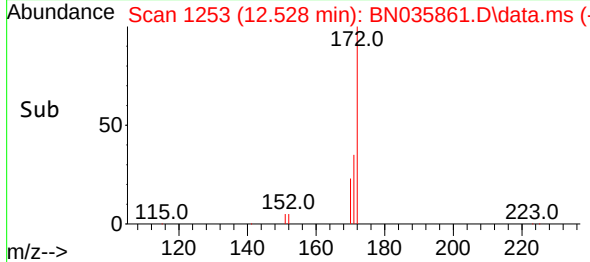
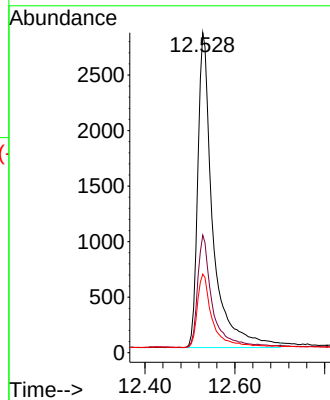
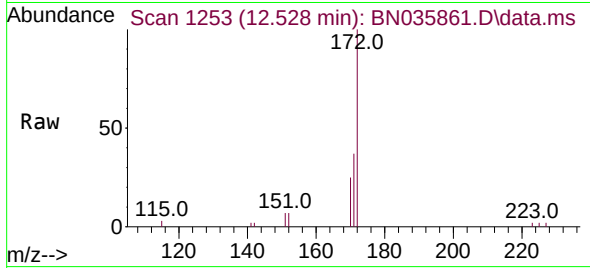
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

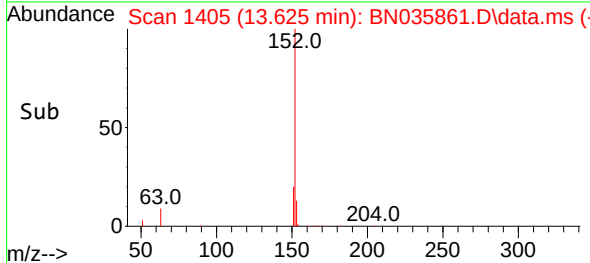
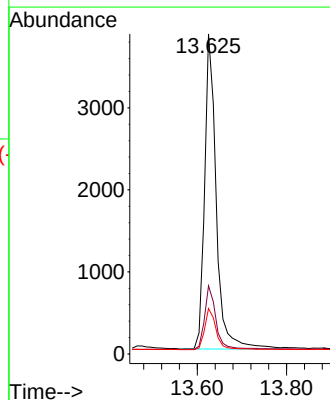
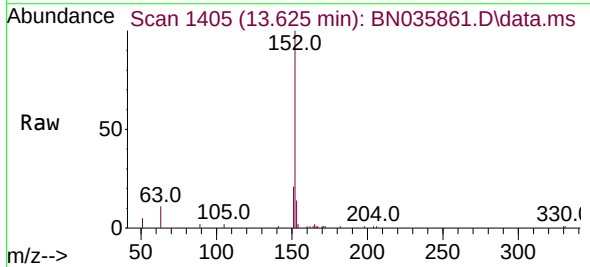
Manual Integrations
APPROVED

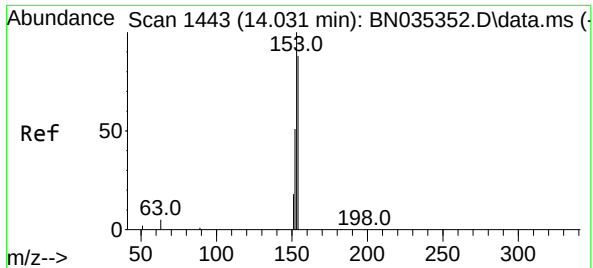
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

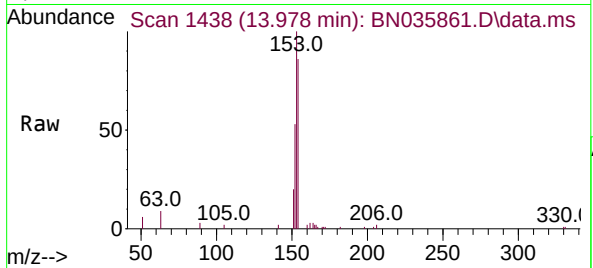
Tgt Ion:152 Resp: 6923
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

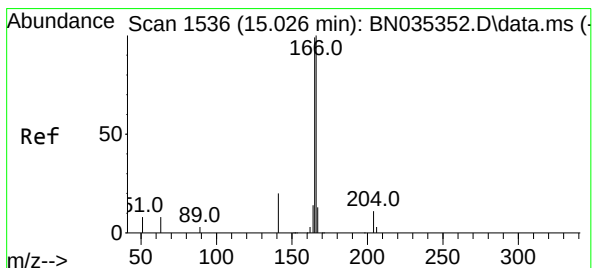
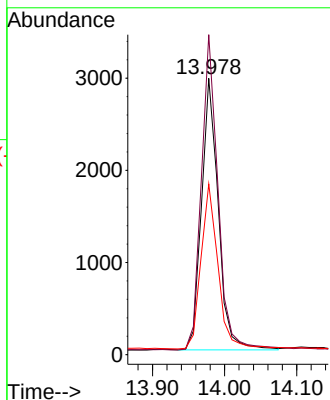
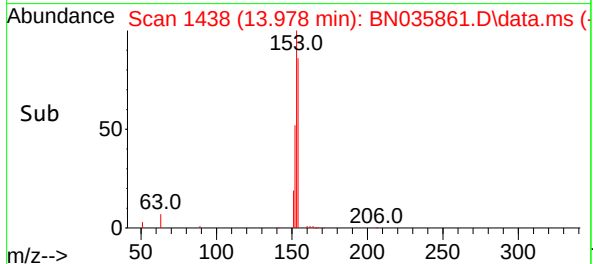
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

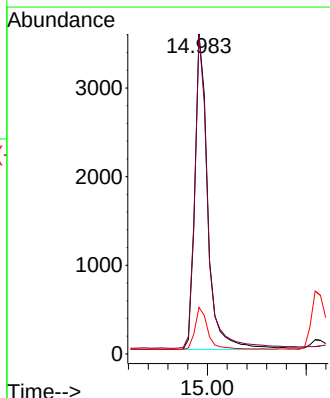
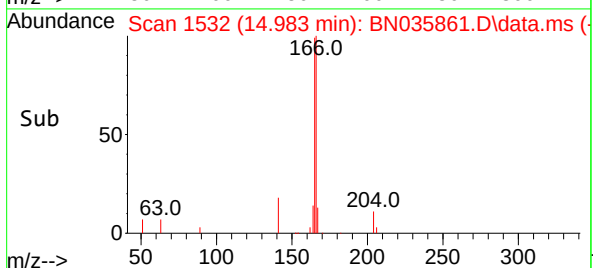
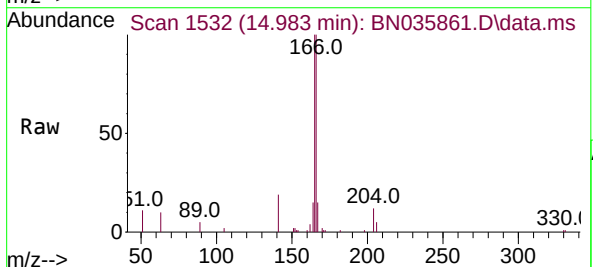
Manual Integrations
APPROVED

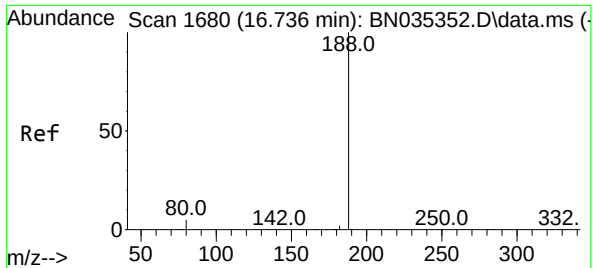
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

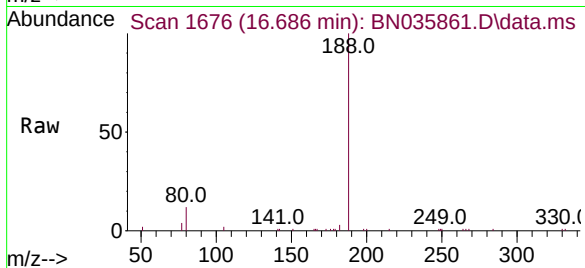
Tgt Ion:166 Resp: 6478
Ion Ratio Lower Upper
166 100
165 98.7 79.7 119.5
167 13.6 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

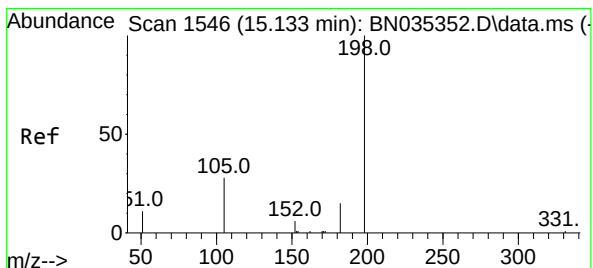
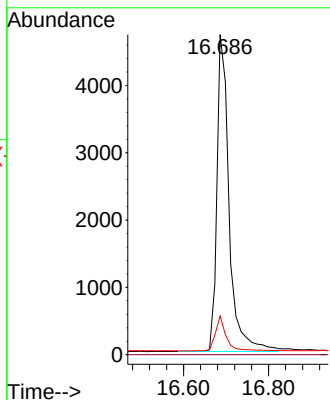
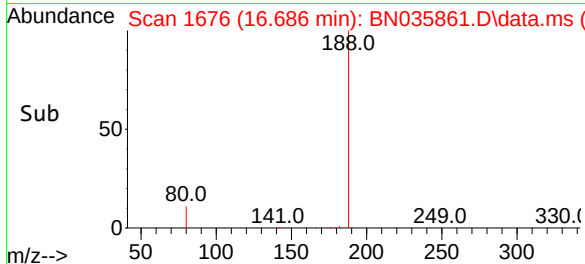
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

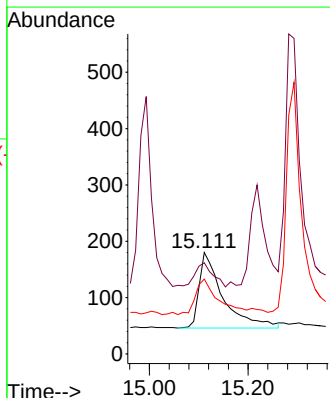
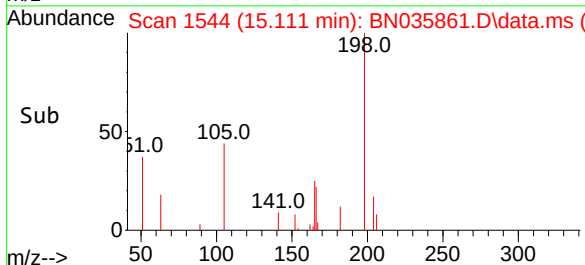
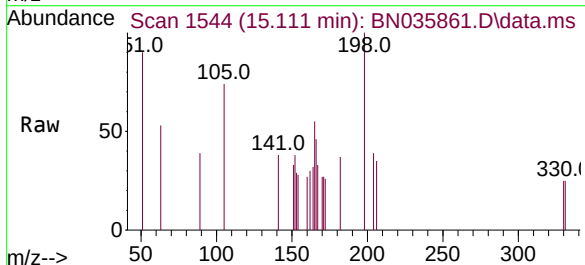
Manual Integrations
APPROVED

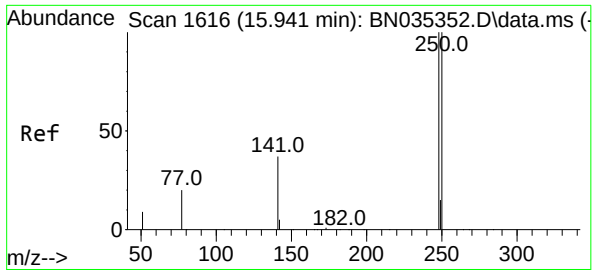
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

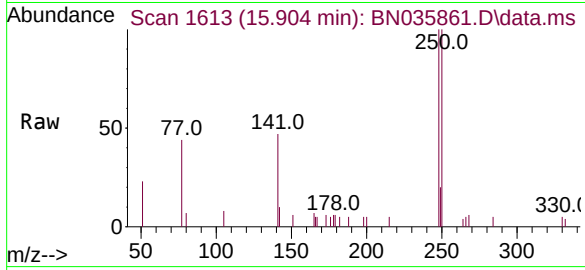
Tgt Ion:198 Resp: 453
Ion Ratio Lower Upper
198 100
51 90.0 46.5 69.7#
105 73.9 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

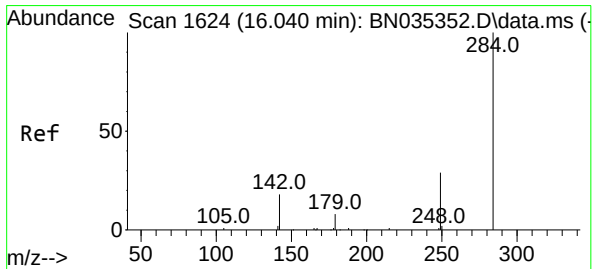
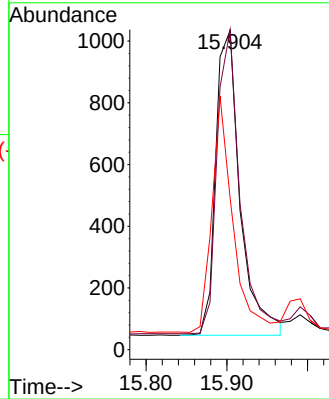
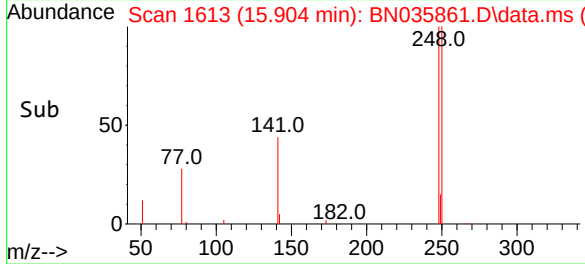
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

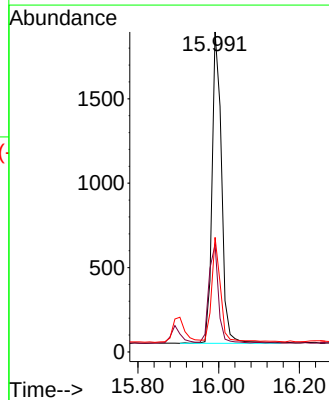
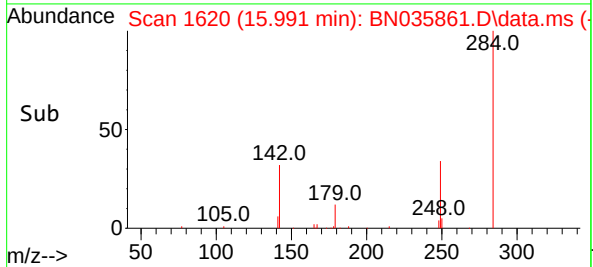
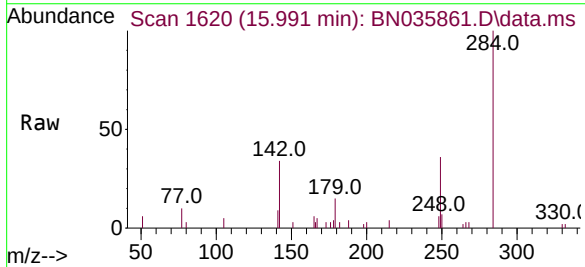
Manual Integrations
APPROVED

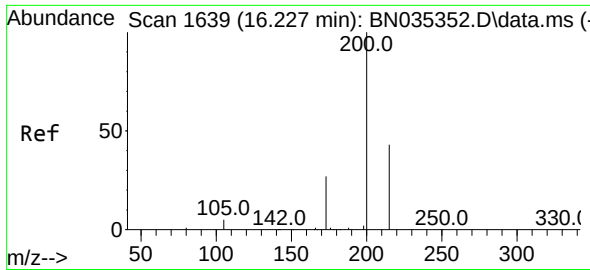
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

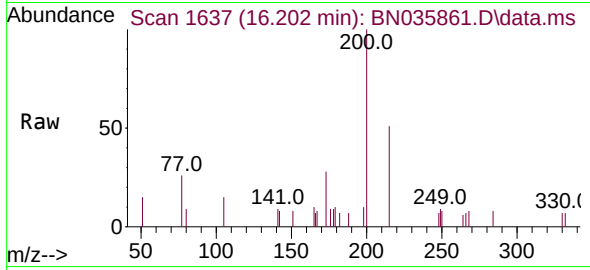
Tgt Ion:284 Resp: 3015
Ion Ratio Lower Upper
284 100
142 31.5 26.7 40.1
249 31.2 24.6 36.8





#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

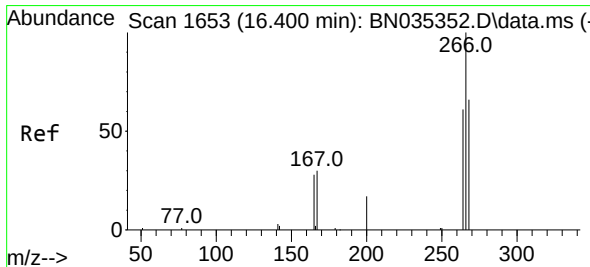
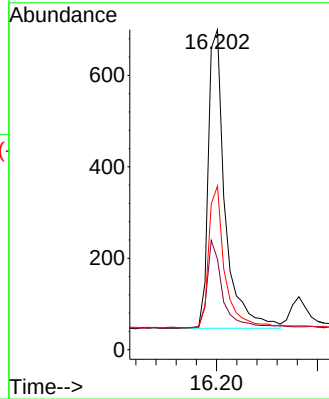
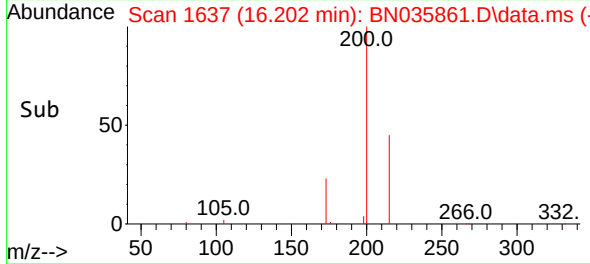
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

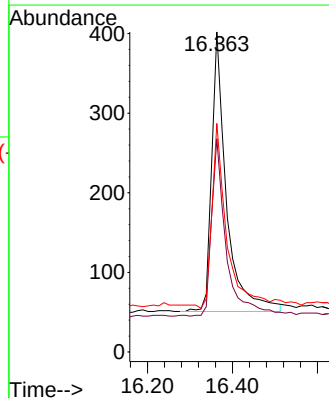
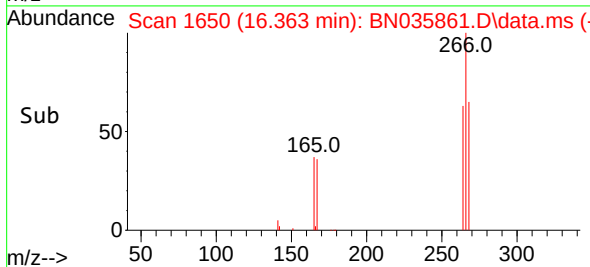
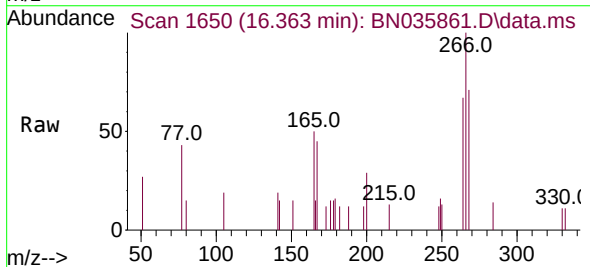
Manual Integrations
APPROVED

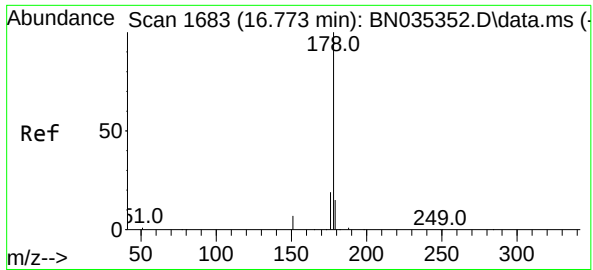
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

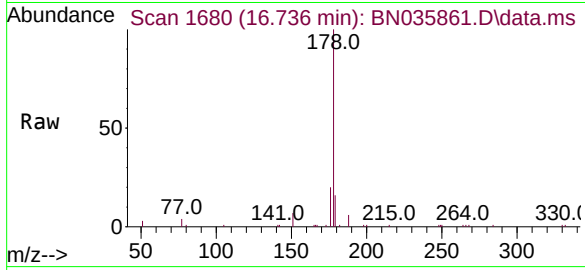
Tgt Ion:266 Resp: 846
Ion Ratio Lower Upper
266 100
264 62.3 42.3 63.5
268 67.7 43.3 64.9#





#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

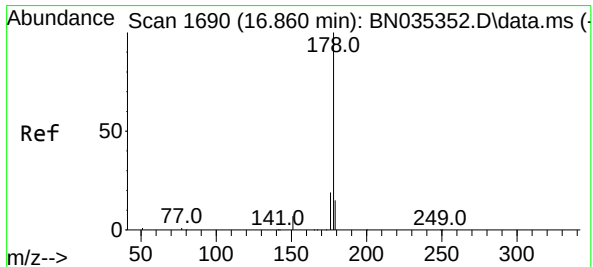
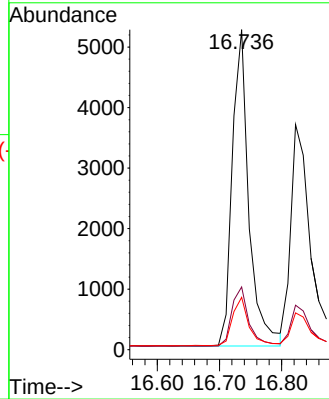
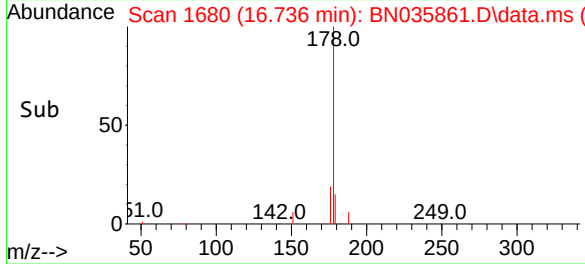
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

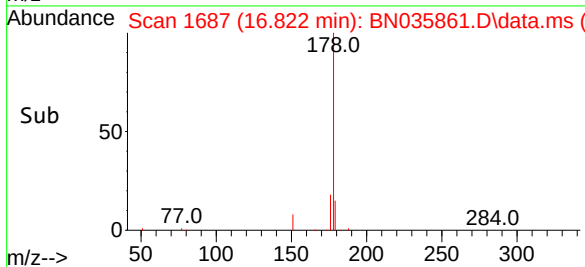
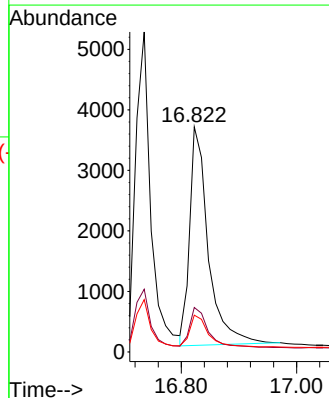
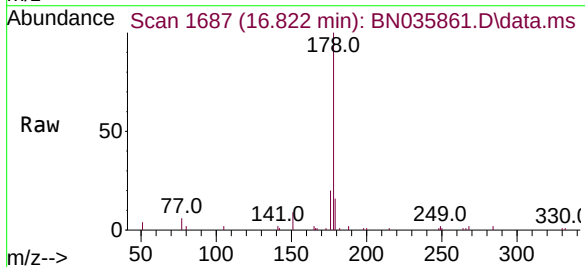
Manual Integrations
APPROVED

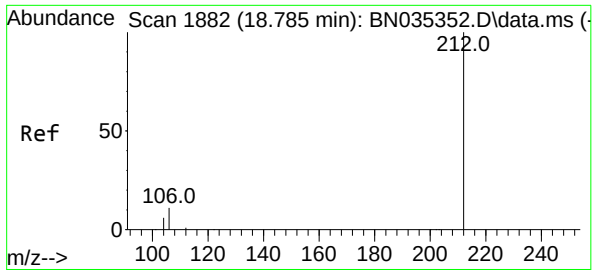
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

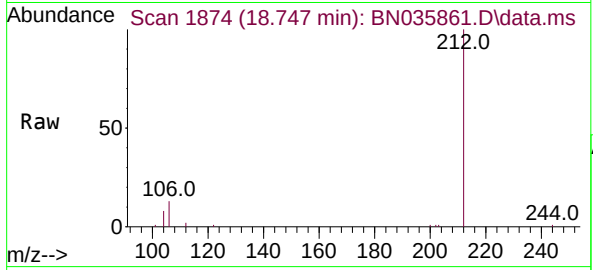
Tgt Ion:178 Resp: 8100
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

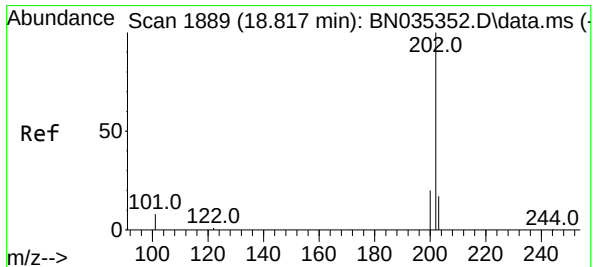
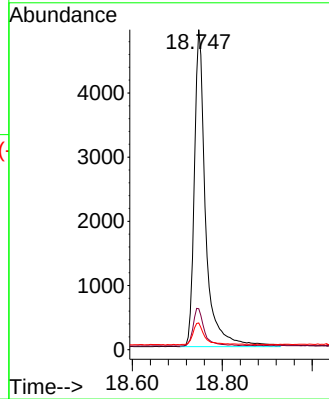
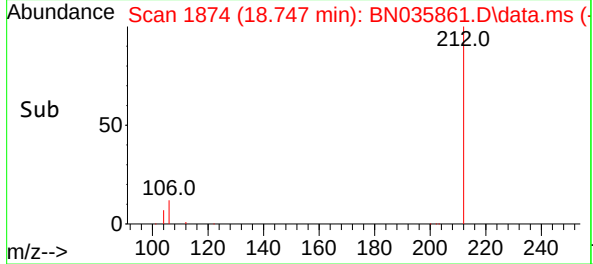
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 864
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 7.0 5.3 7.9

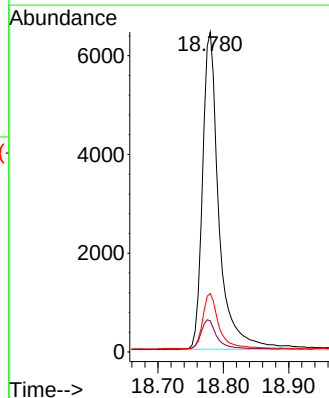
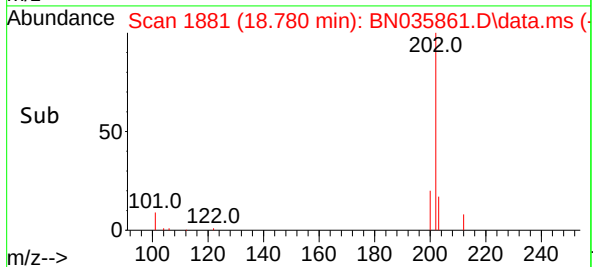
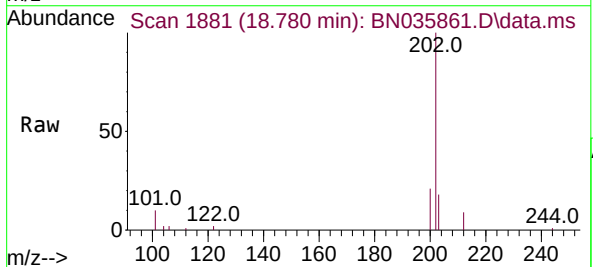
Manual Integrations
APPROVED

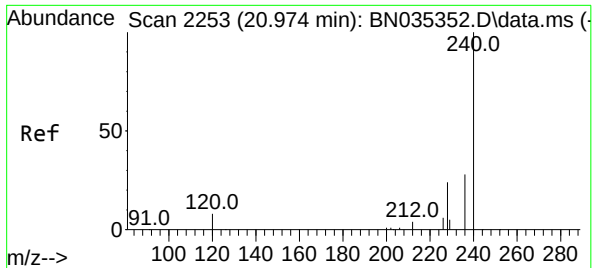
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145
Ion Ratio Lower Upper
202 100
101 9.7 7.4 11.0
203 17.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 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

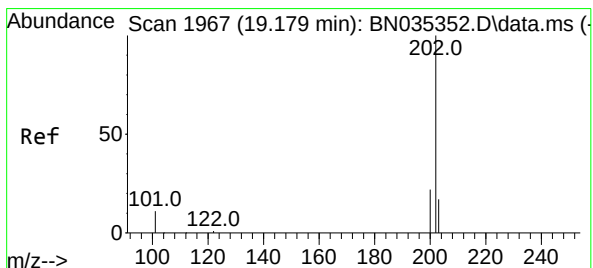
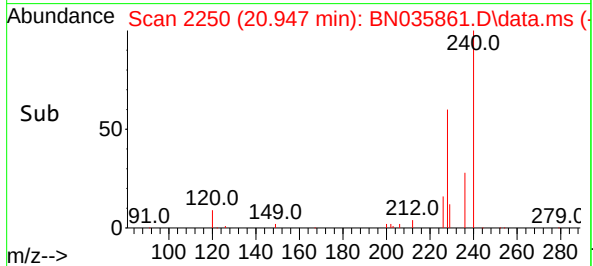
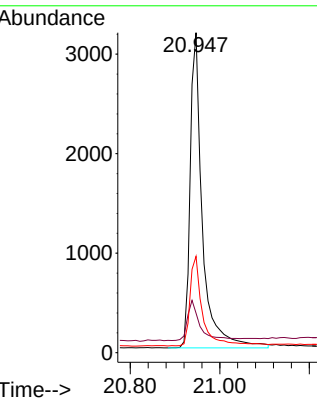
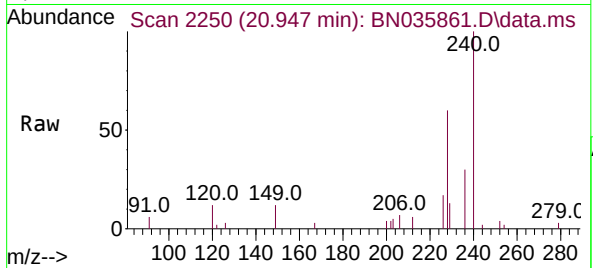
236 30.1 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#30

Pyrene

Concen: 0.517 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

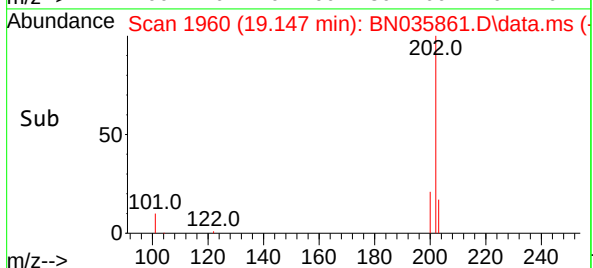
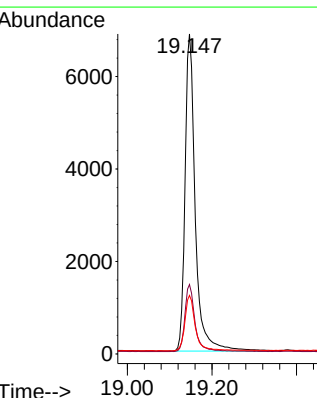
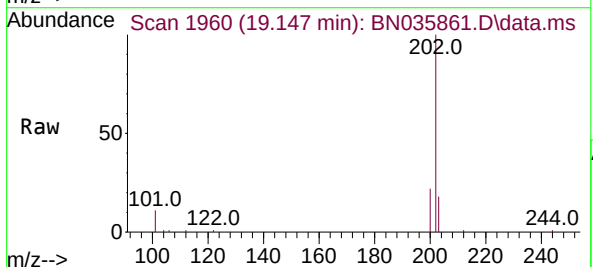
Tgt Ion:202 Resp: 11492

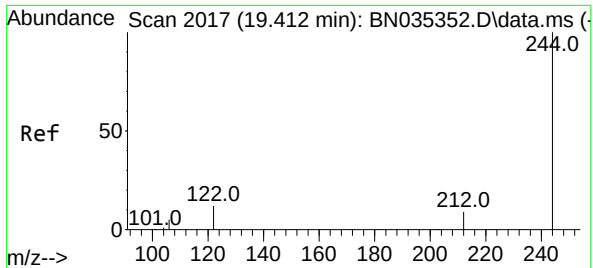
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 18.0 14.3 21.5





#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

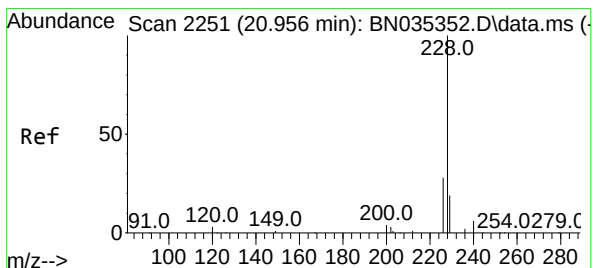
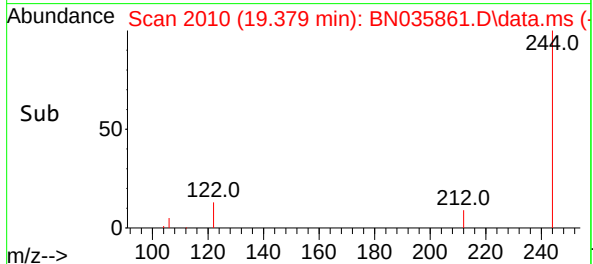
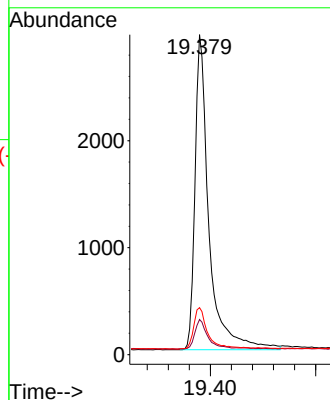
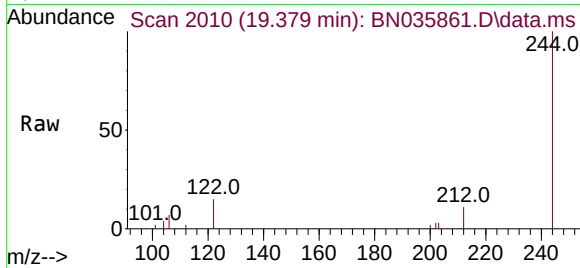
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

Manual Integrations

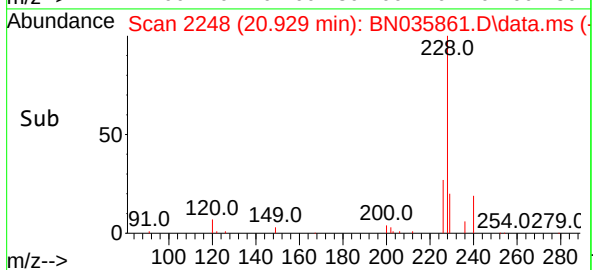
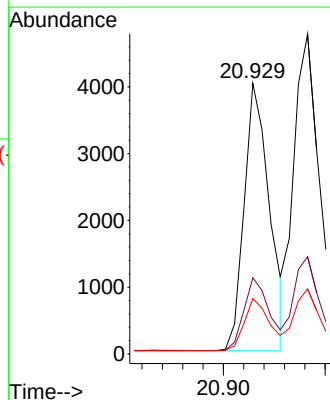
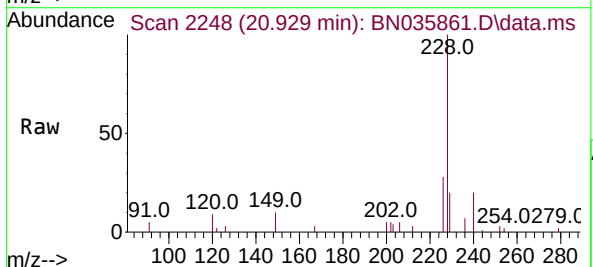
APPROVED

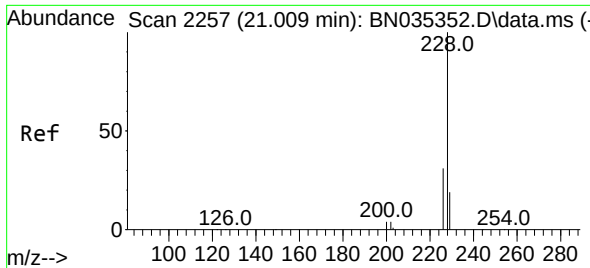
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

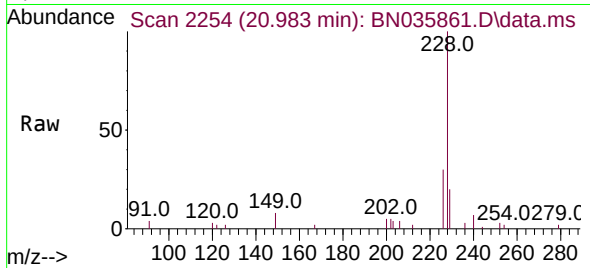
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8





#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

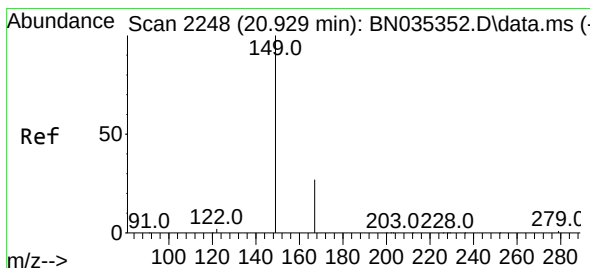
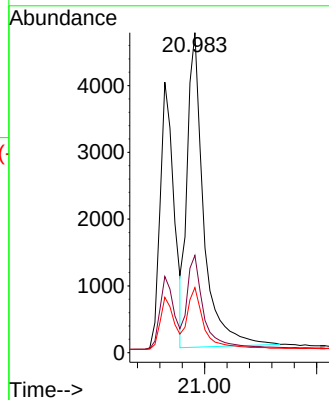
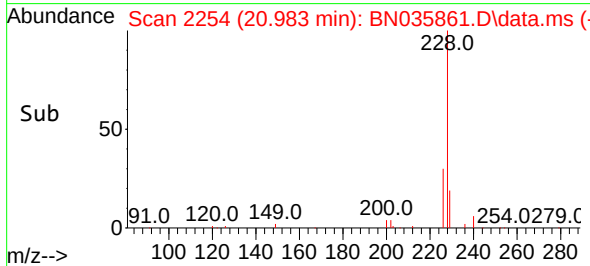
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

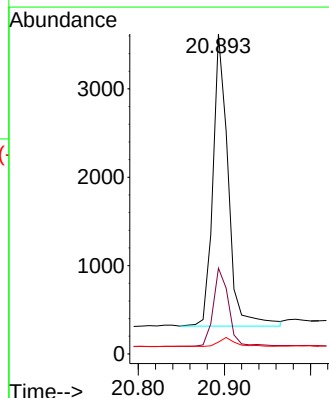
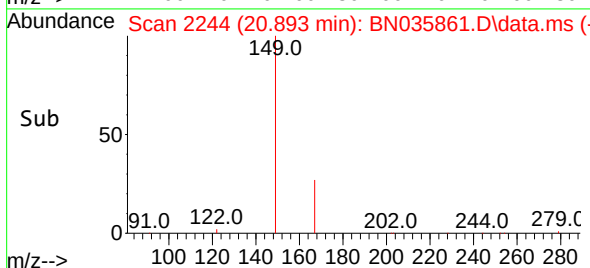
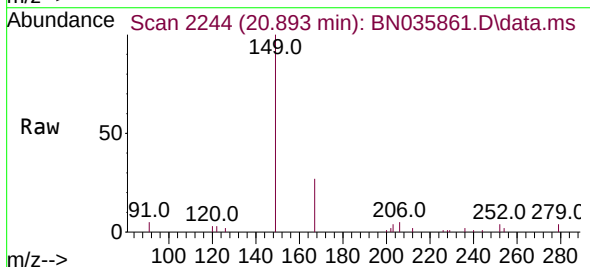
Manual Integrations
APPROVED

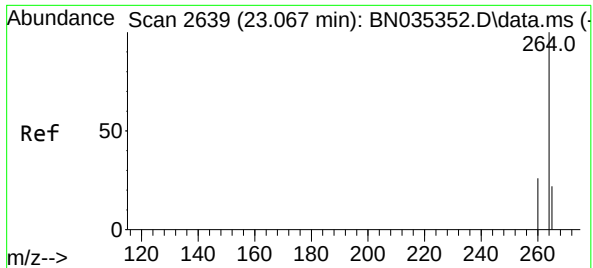
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

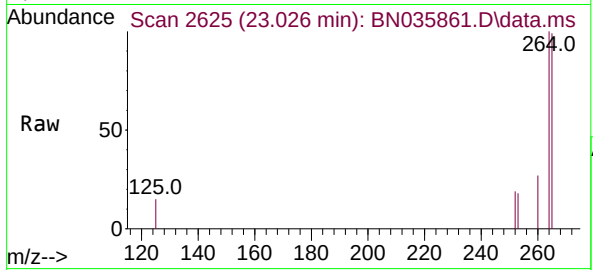
Tgt Ion:149 Resp: 4069
Ion Ratio Lower Upper
149 100
167 27.2 22.2 33.4
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

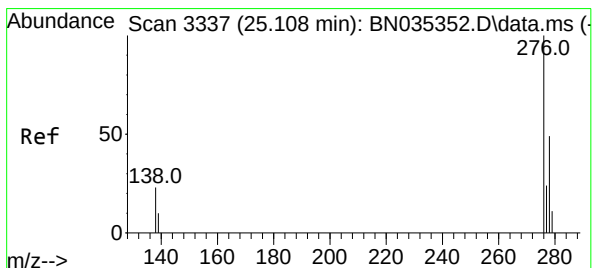
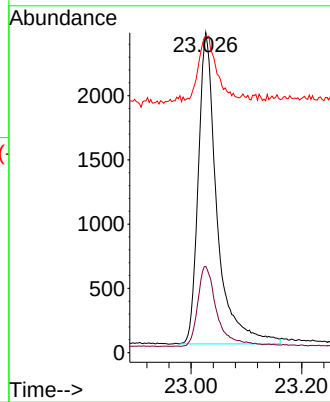
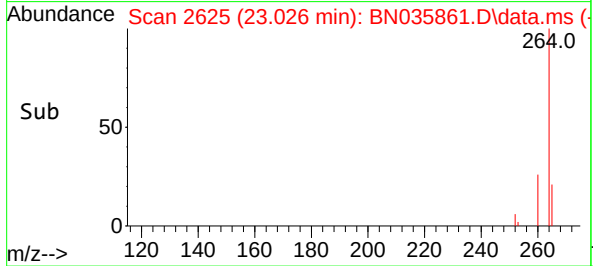
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

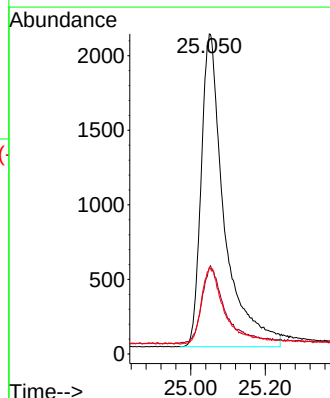
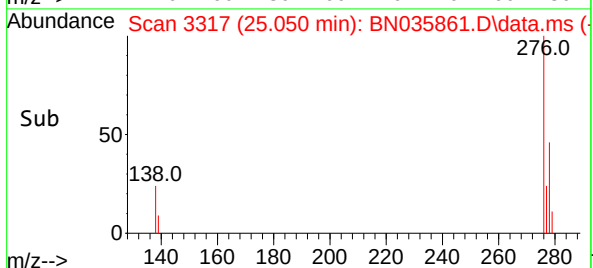
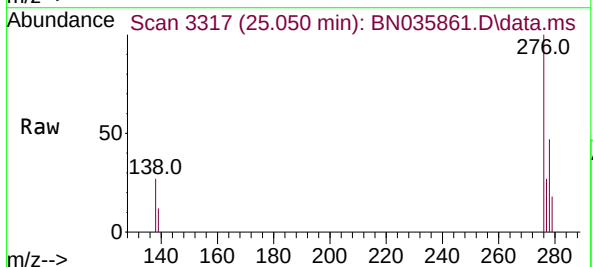
Manual Integrations
APPROVED

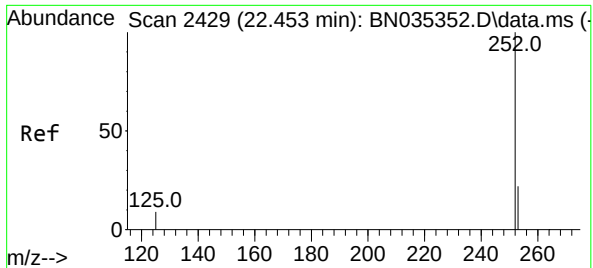
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

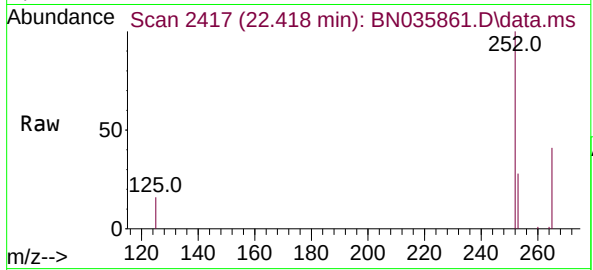
Tgt Ion:276 Resp: 9030
Ion Ratio Lower Upper
276 100
138 24.8 19.4 29.0
277 23.4 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

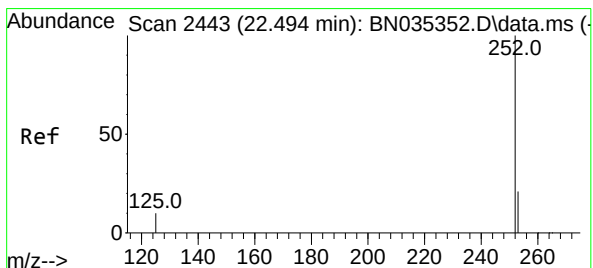
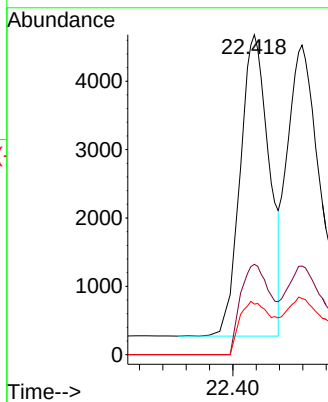
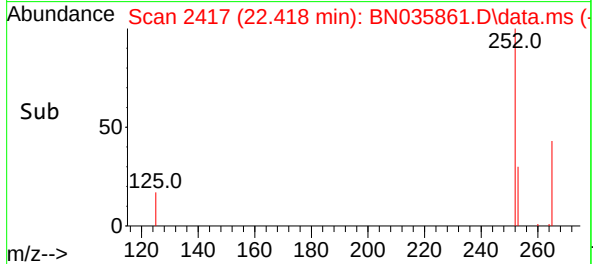
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



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

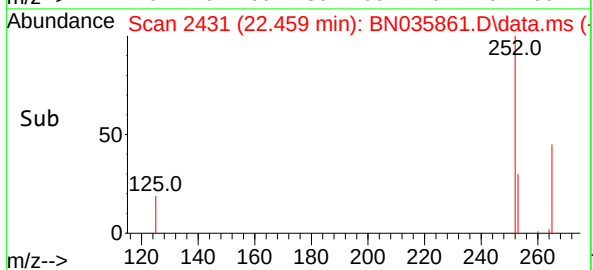
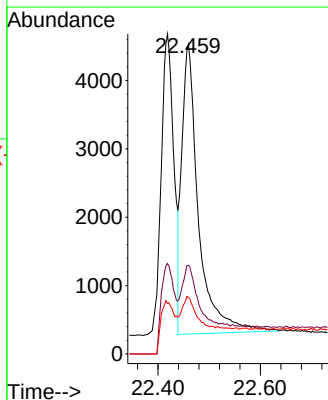
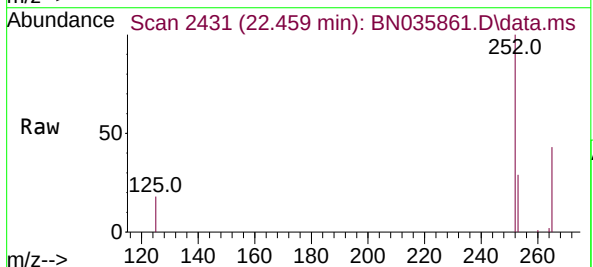
Manual Integrations
APPROVED

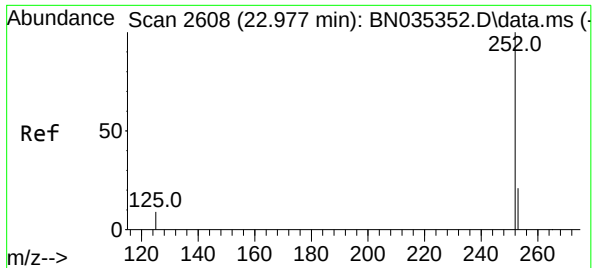
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

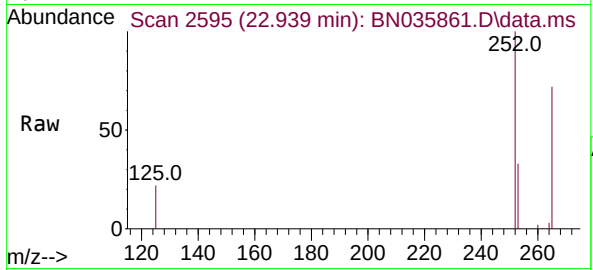
Tgt Ion:252 Resp: 9638
Ion Ratio Lower Upper
252 100
253 28.6 19.5 29.3
125 18.2 10.2 15.4





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

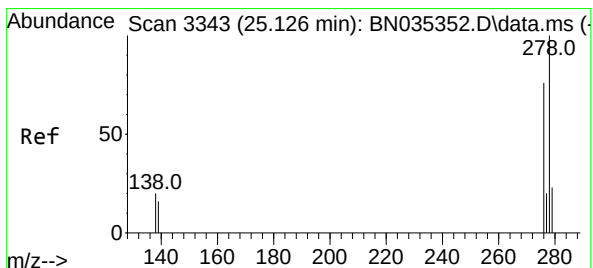
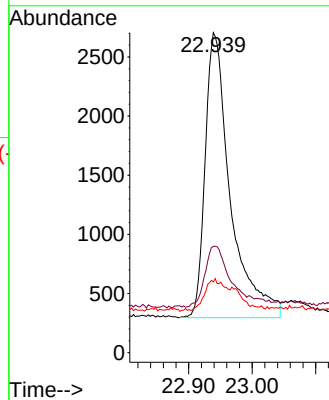
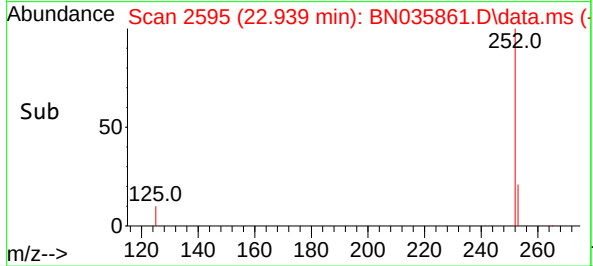
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:252 Resp: 6643
Ion Ratio Lower Upper
252 100
253 33.2 20.2 30.4
125 22.1 10.9 16.3

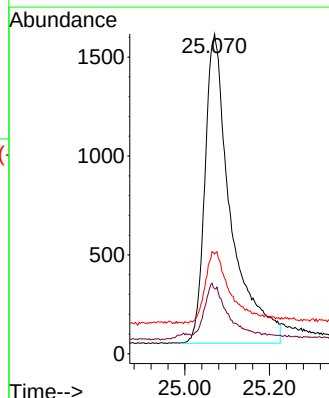
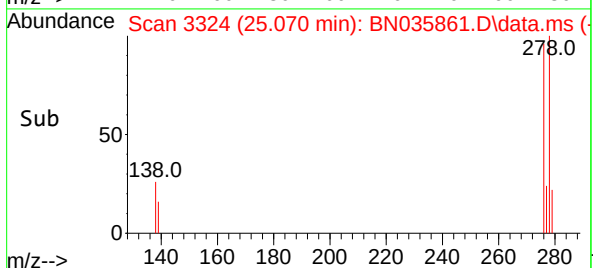
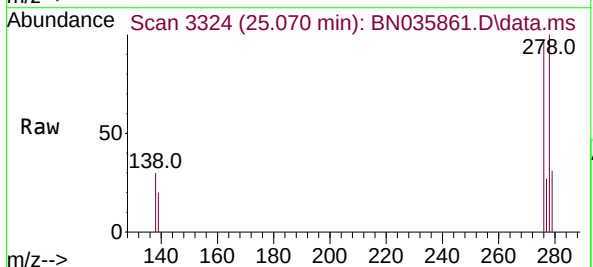
Manual Integrations
APPROVED

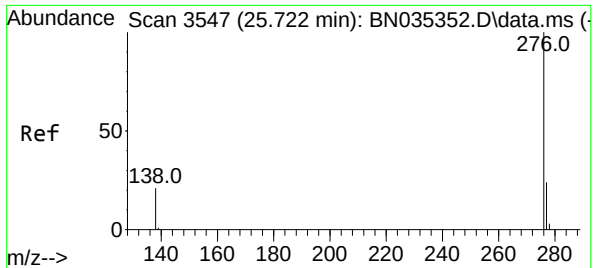
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633
Ion Ratio Lower Upper
278 100
139 20.3 14.2 21.4
279 31.2 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.452 ng

RT: 25.652 min Scan# 31

Delta R.T. -0.026 min

Lab File: BN035861.D

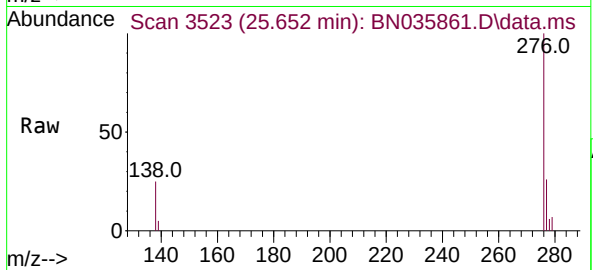
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 8300

Ion Ratio Lower Upper

276 100

277 26.3 19.9 29.9

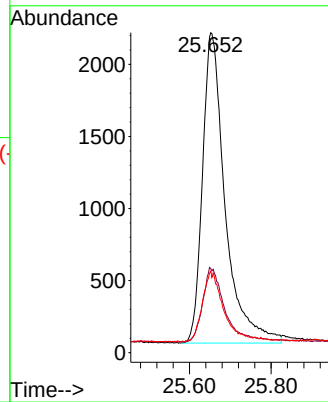
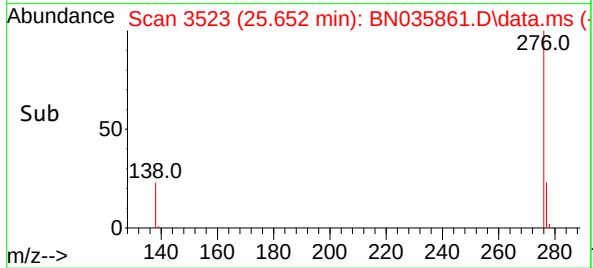
138 25.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



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



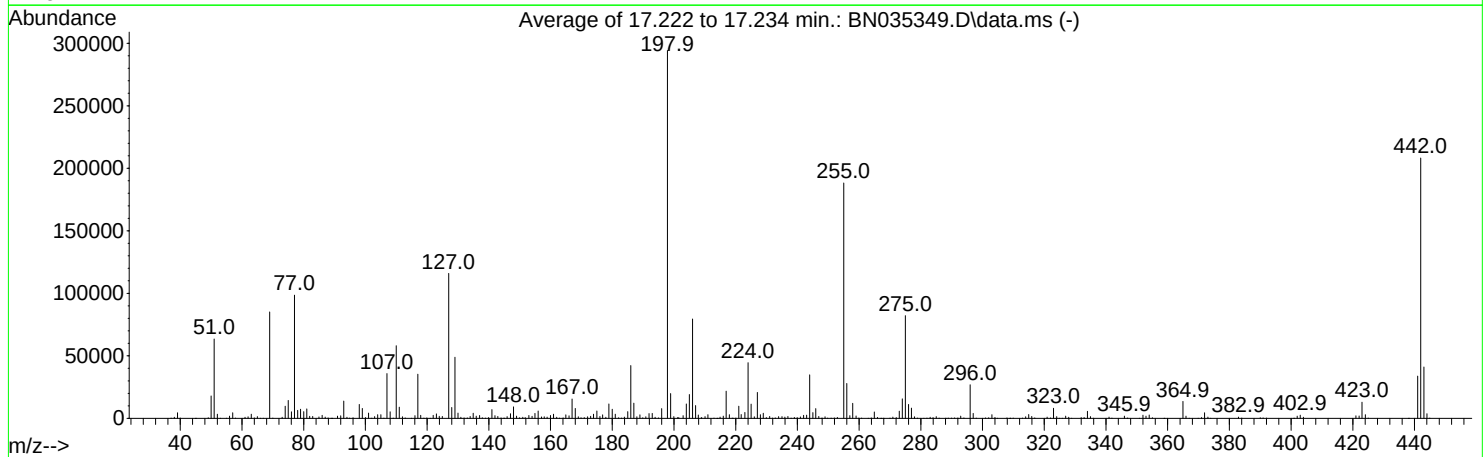
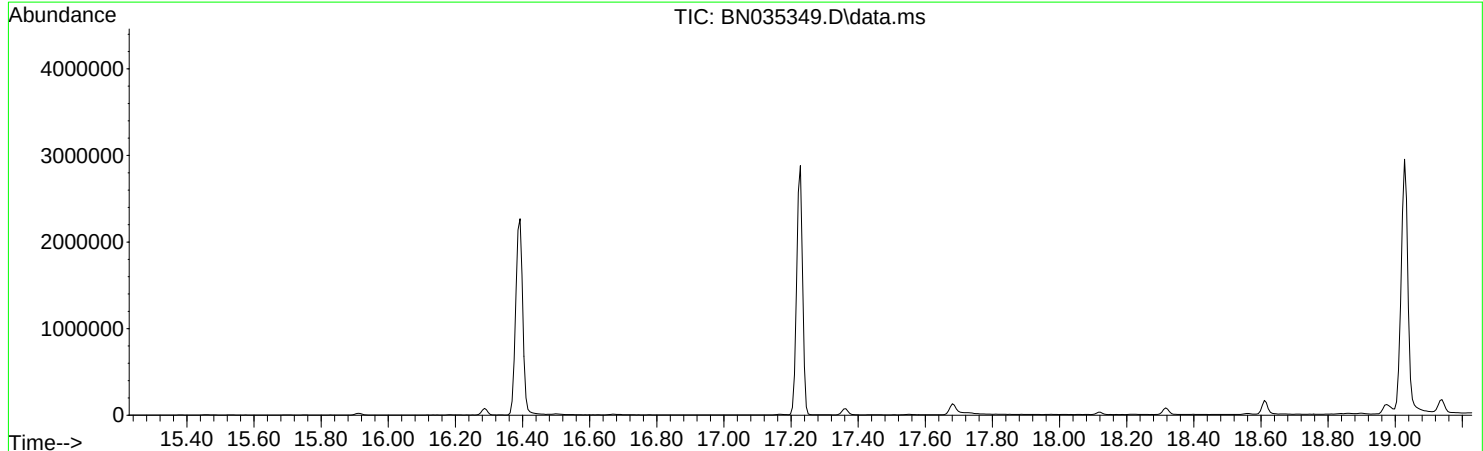
QC SAMPLE DATA

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



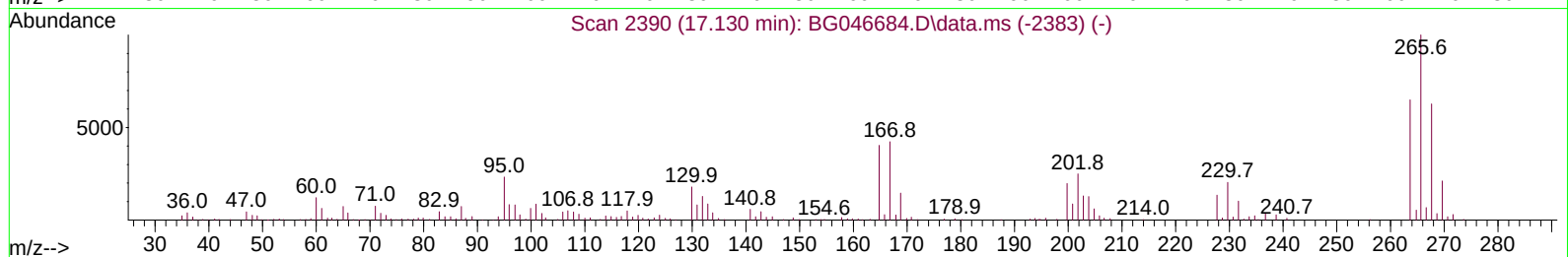
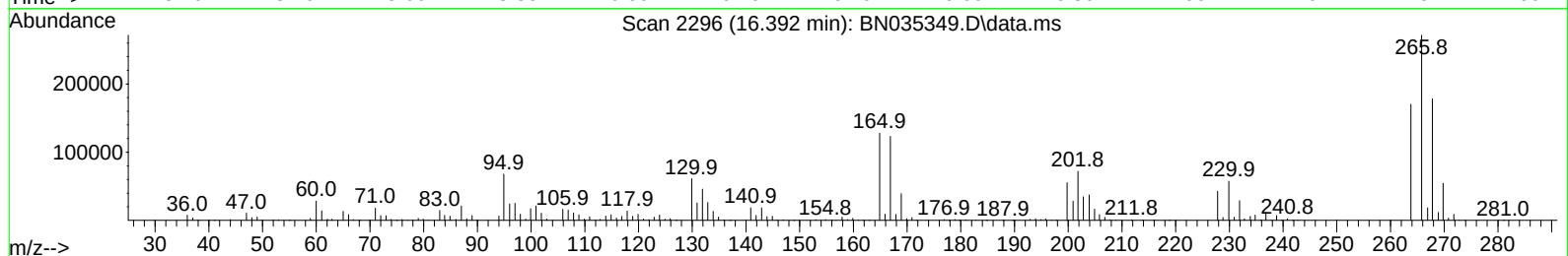
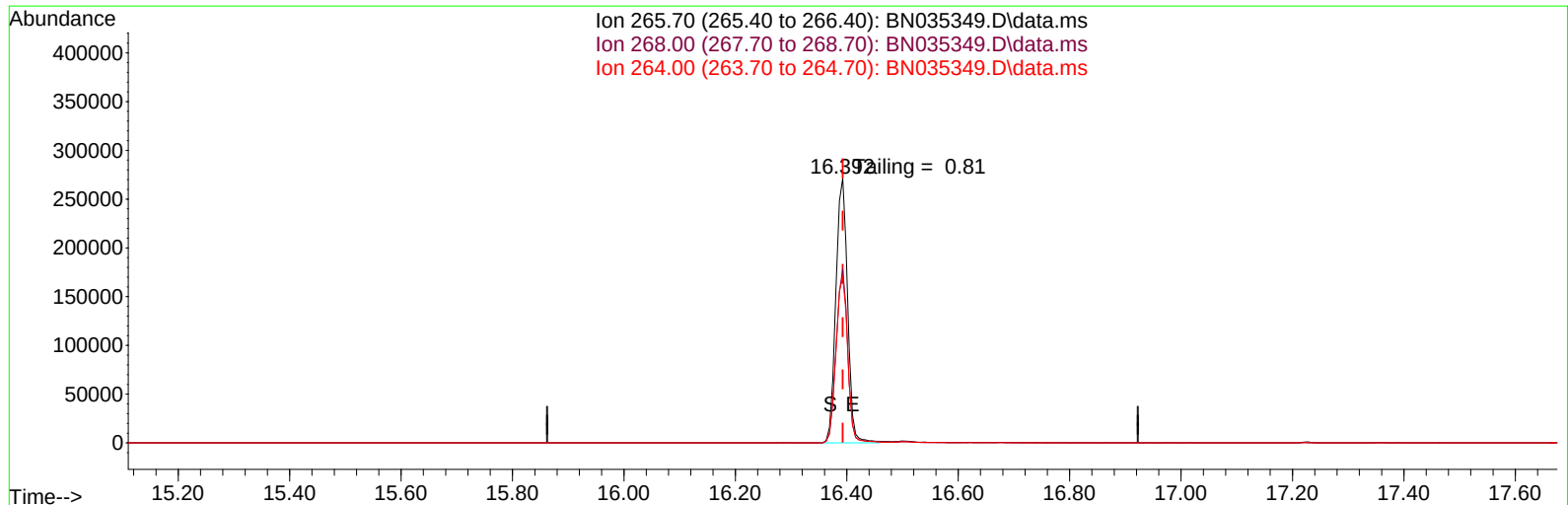
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

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

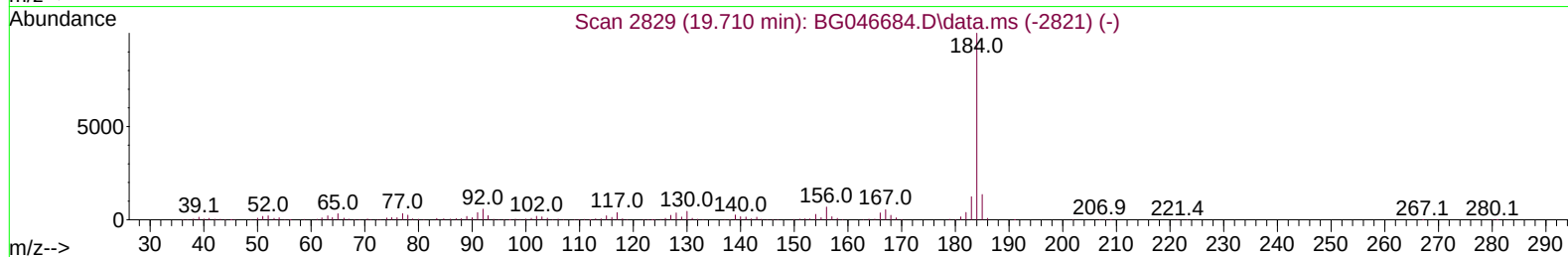
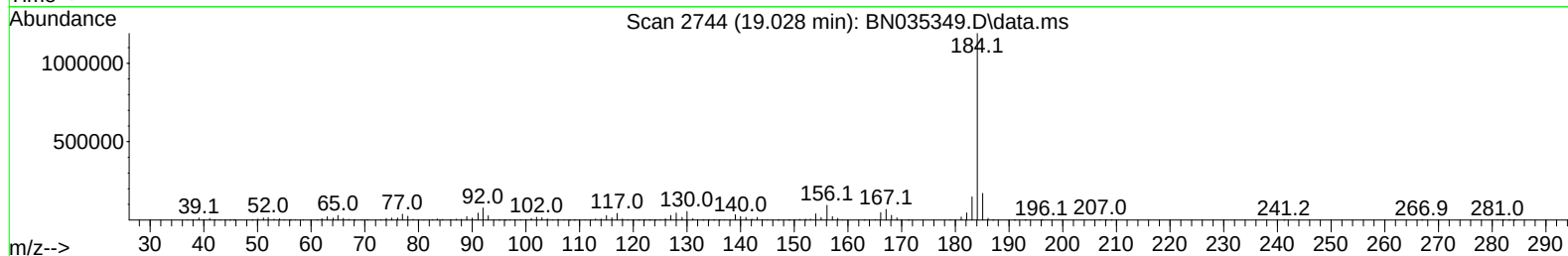
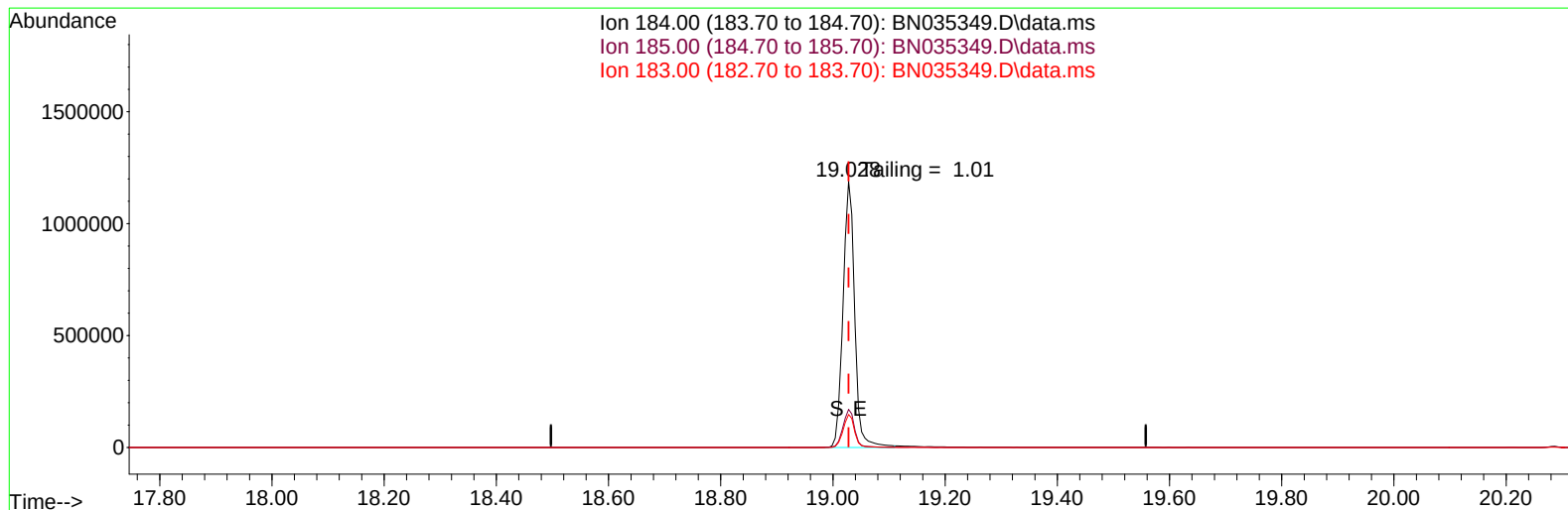
response 398074

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

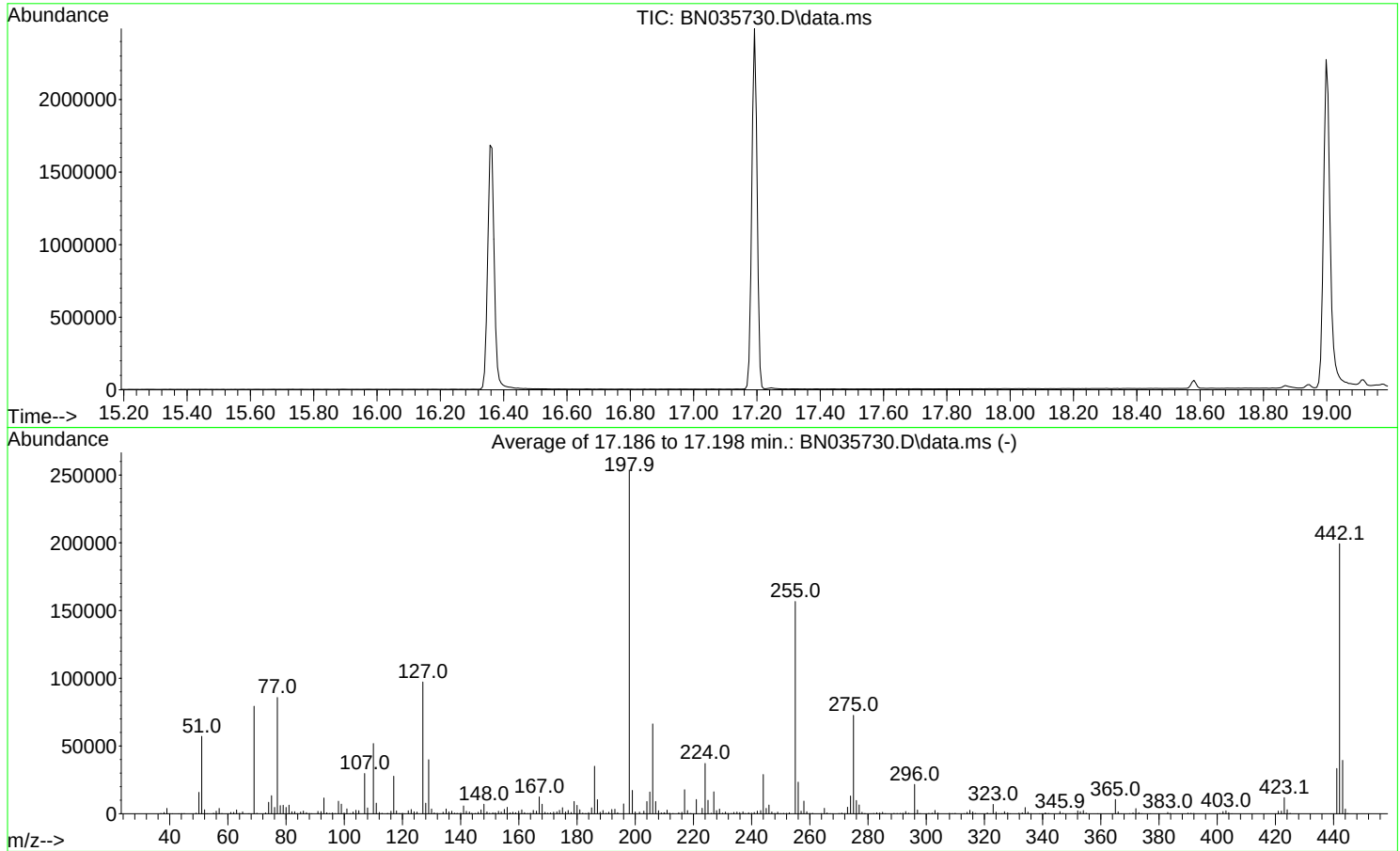
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	<u>BN035349.D</u>
Compound Name	Response	Retention Time
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28214	1013671	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035730.D
Acq On : 20 Dec 2024 07:25
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



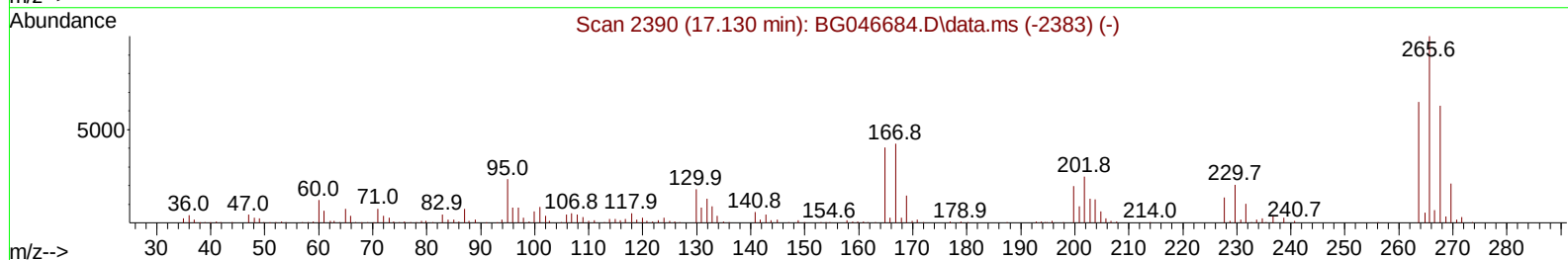
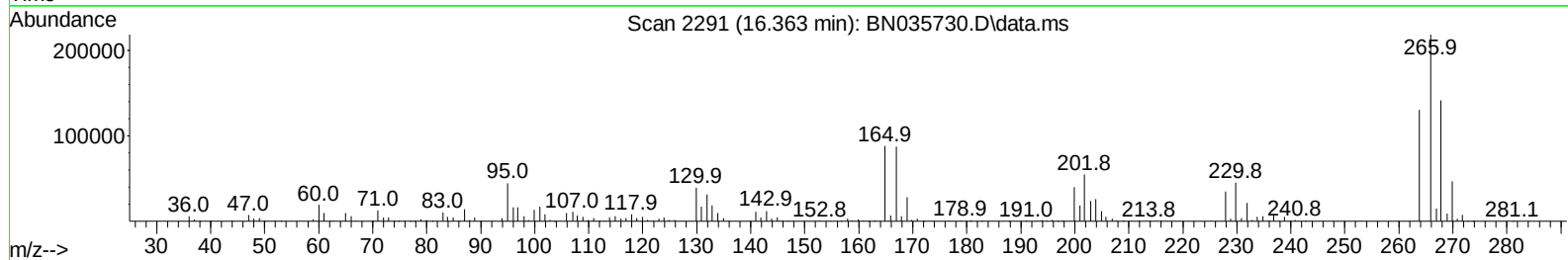
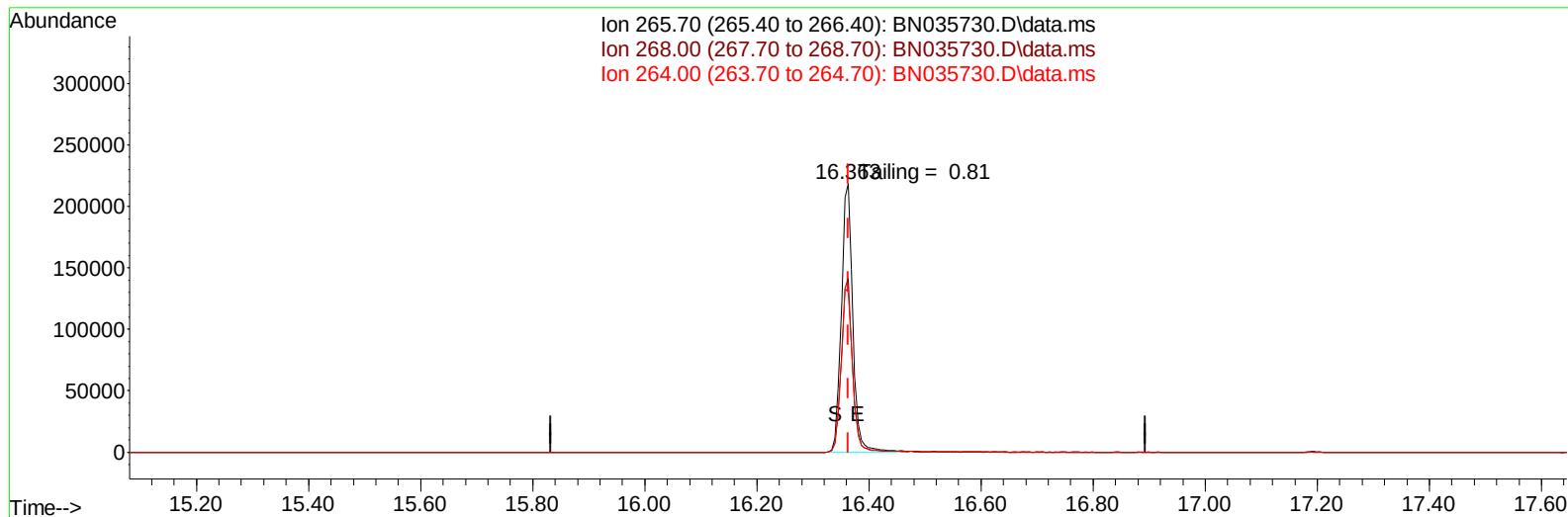
AutoFind: Scans 2431, 2432, 2433; Background Corrected with Scan 2424

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.5	57147	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.3	79373	PASS
70	69	0.00	2	0.5	393	PASS
127	198	10	80	38.3	97248	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	253824	PASS
199	198	5	9	6.8	17235	PASS
275	198	10	60	28.6	72629	PASS
365	198	1	100	4.1	10491	PASS
441	198	0.01	100	13.2	33387	PASS
442	442	50	100	100.0	199296	PASS
443	442	15	24	19.8	39411	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035730.D
Acq On : 20 Dec 2024 07:25
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 20 08:05:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 20 08:05:13 2024
Response via : Initial Calibration



TIC: BN035730.D\data.ms

(70) Pentachlorophenol (C)

16.363min (0.000) 28931.39 ng

response 314005

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.75
264.00	61.60	59.64
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

Abundance

1400000
1200000
1000000
800000
600000
400000
200000
0

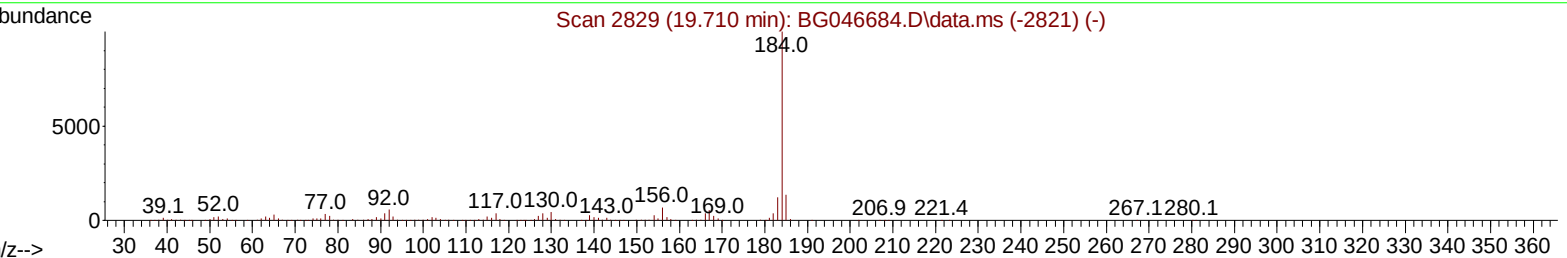
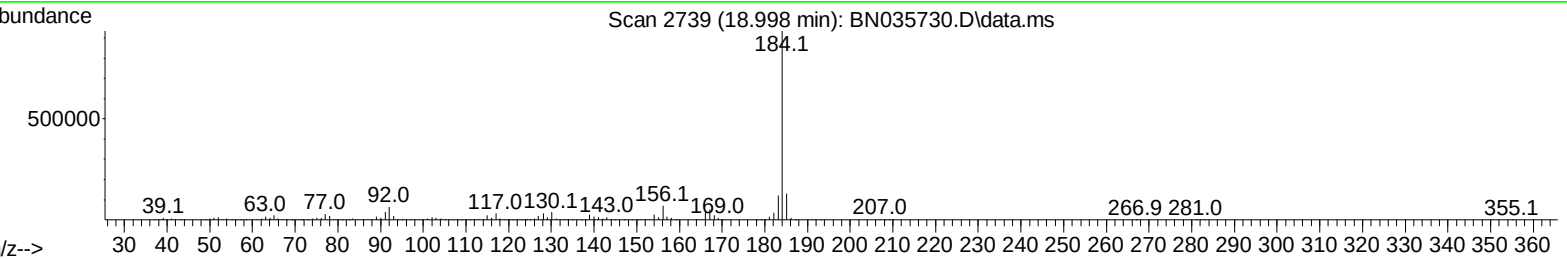
me--> 17.80 18.00 18.20 18.40 18.60 18.80 19.00 19.20 19.40 19.60 19.80 20.00 20.20

lon 184.00 (183.70 to 184.70): BN035730.D\data.ms
lon 185.00 (184.70 to 185.70): BN035730.D\data.ms
lon 183.00 (182.70 to 183.70): BN035730.D\data.ms

18.999
Peak = 1.55

S E

The chromatogram displays a single, prominent peak at a retention time of 18.999 minutes. The abundance of this peak reaches approximately 900,000 units. The baseline is stable and near zero throughout the rest of the run. Two small, unlabeled peaks are visible on the baseline at approximately 18.45 and 19.55 minutes, with the latter labeled 'S' and 'E'. The x-axis is labeled 'me-->' and the y-axis is labeled 'Abundance'.



TIC: BN035730.D\data.ms

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.90
183.00	13.20	12.84
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

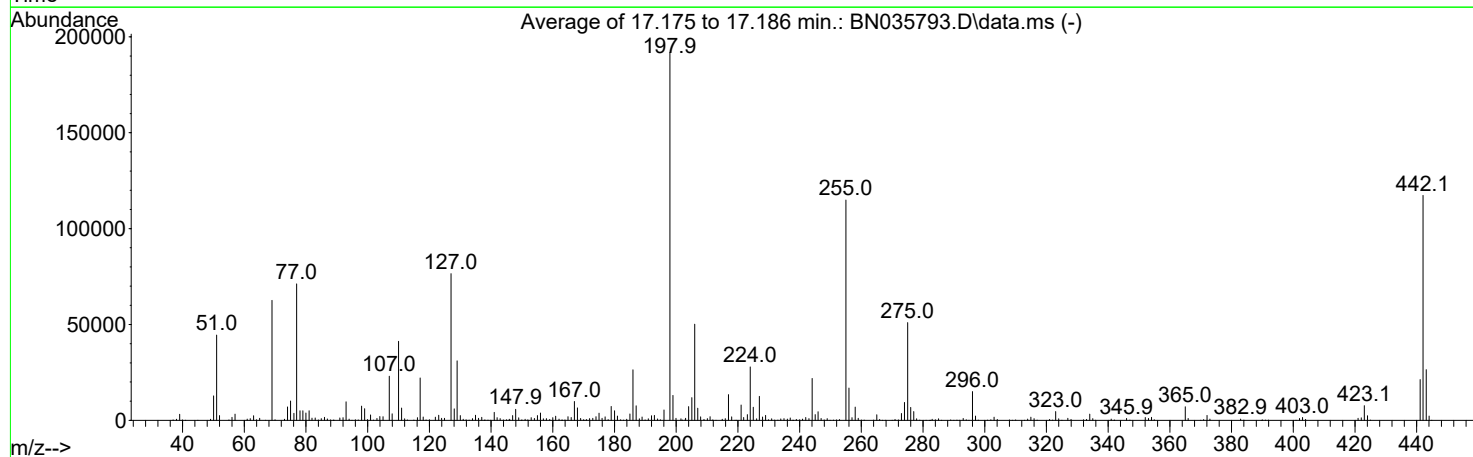
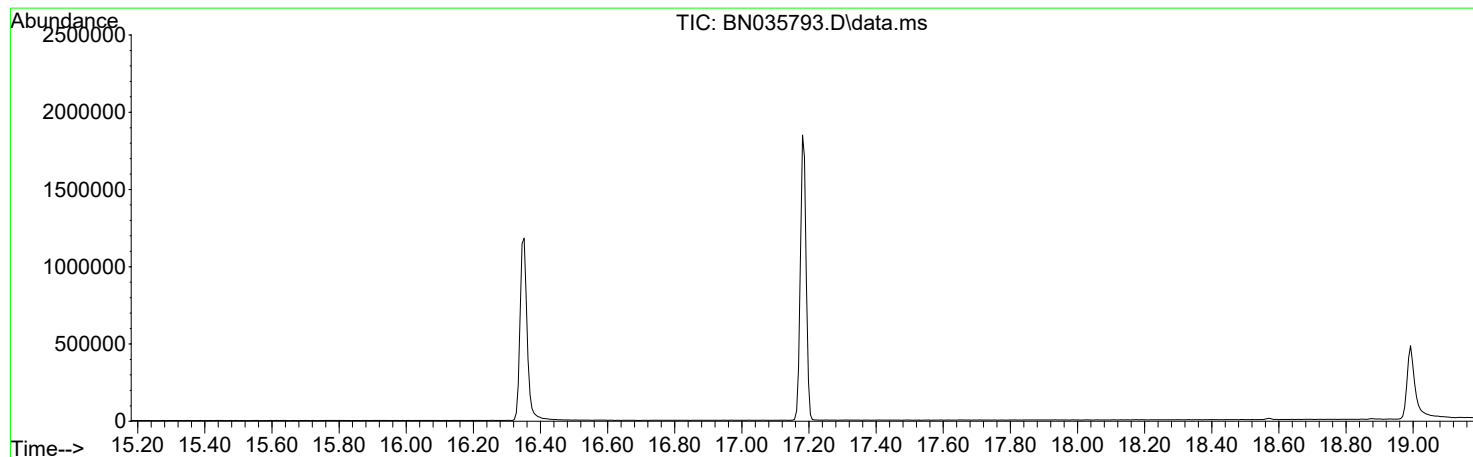
Date	Instrument Name	DFTPP Data File
12/19/2024	BNA_N	<u>BN035730.D</u>
Compound Name	Response	Retention Time
DDT	433840	20.257
DDD	250906	19.81
DDE	2152	19.292
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
253058	686898	36.84

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035793.D
Acq On : 23 Dec 2024 20:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



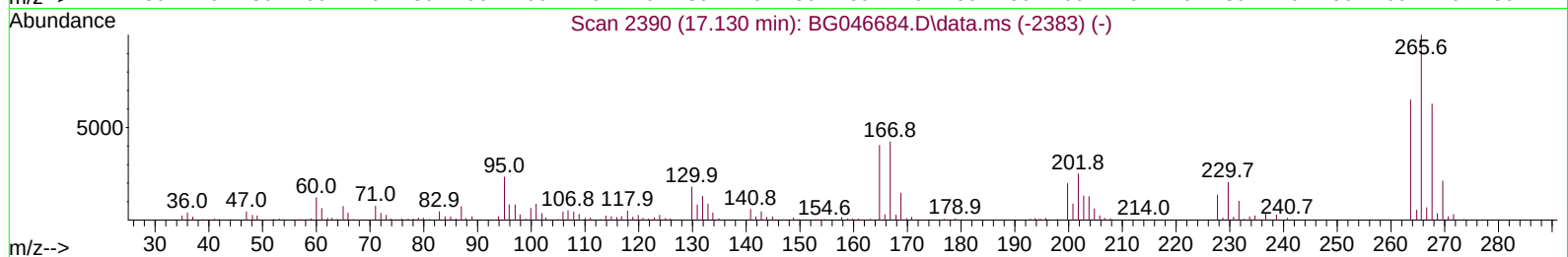
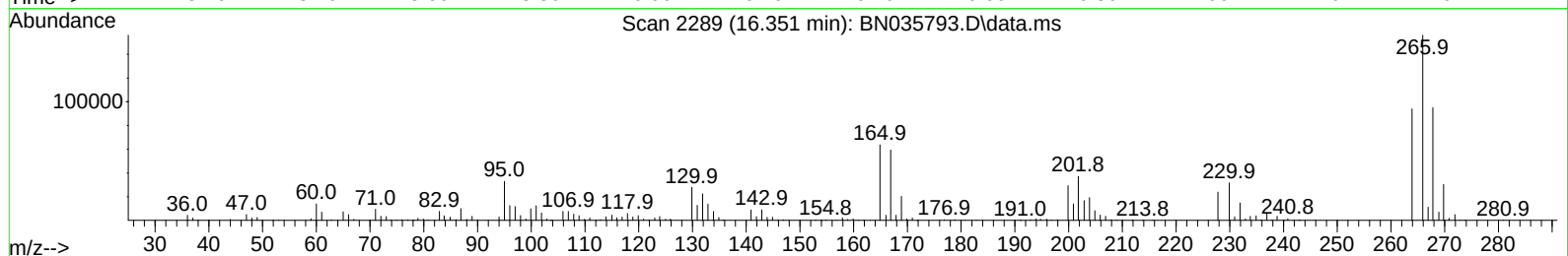
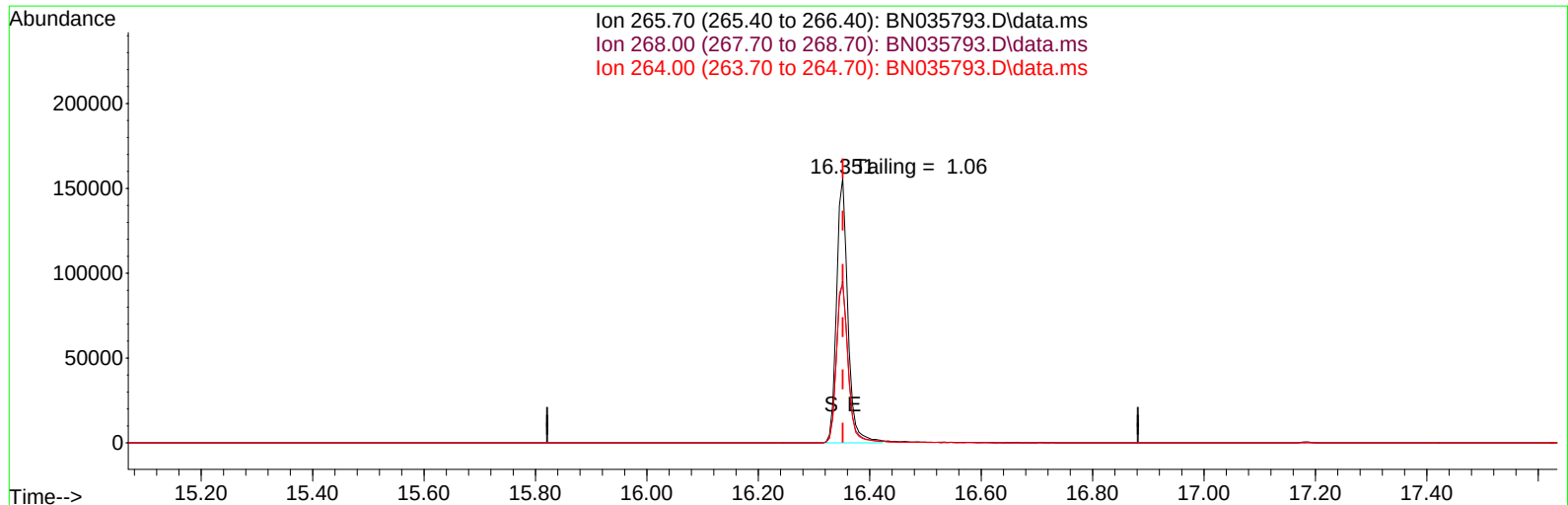
AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2423

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	23.2	44520	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	32.6	62576	PASS
70	69	0.00	2	0.6	362	PASS
127	198	10	80	39.9	76520	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	191851	PASS
199	198	5	9	6.8	13033	PASS
275	198	10	60	26.6	50979	PASS
365	198	1	100	3.7	7105	PASS
441	198	0.01	100	11.1	21259	PASS
442	442	50	100	100.0	117307	PASS
443	442	15	24	22.6	26498	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035793.D
Acq On : 23 Dec 2024 20:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:28:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:28:04 2024
Response via : Initial Calibration



TIC: BN035793.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 22129.06 ng

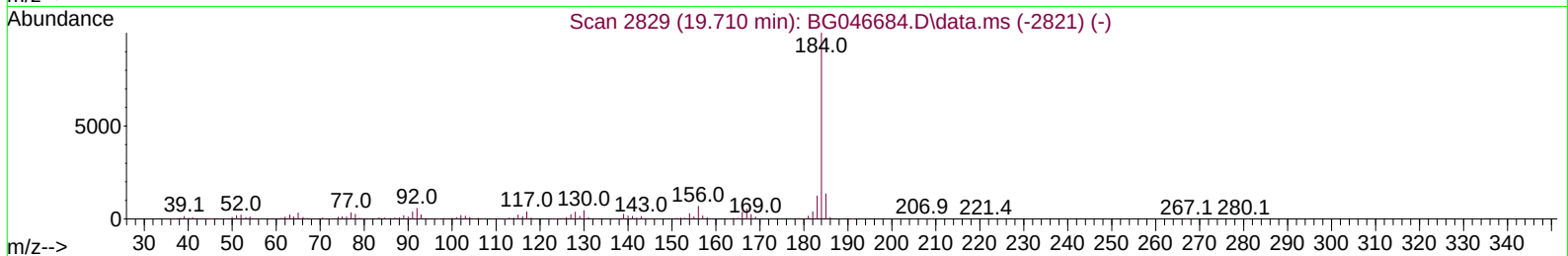
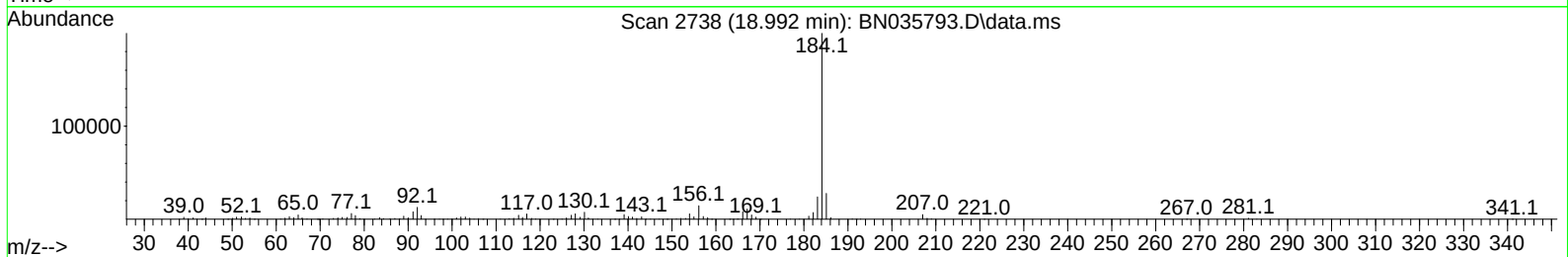
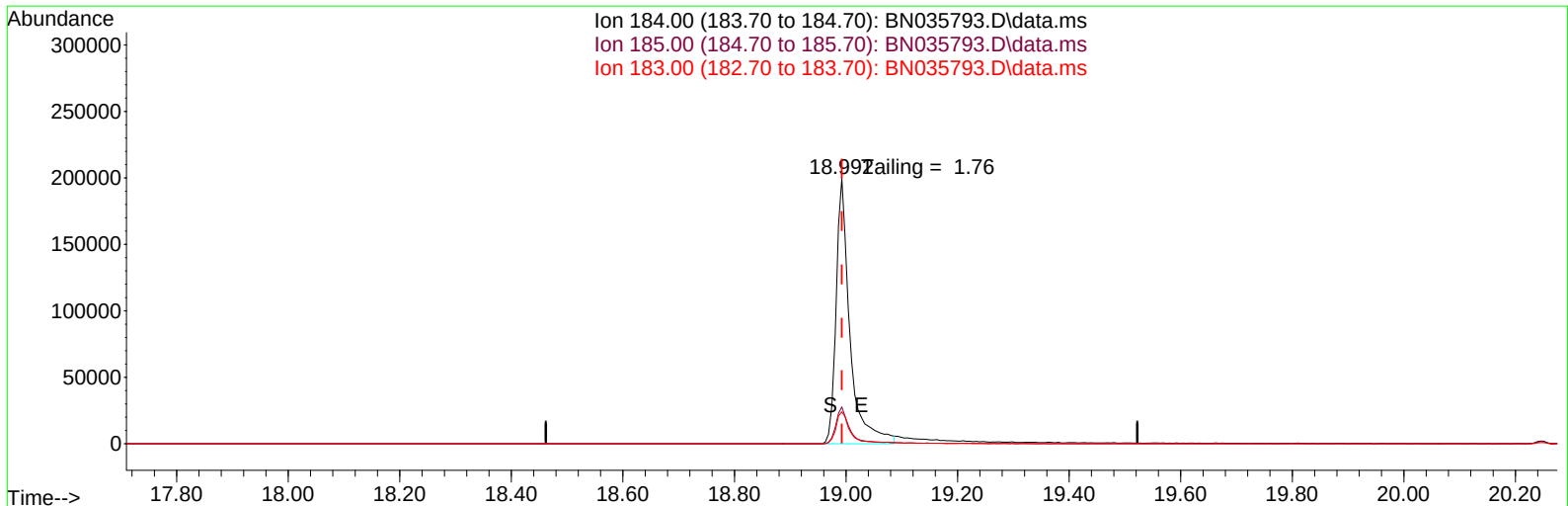
response 222810

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.87
264.00	61.60	60.23
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035793.D
Acq On : 23 Dec 2024 20:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:28:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:28:04 2024
Response via : Initial Calibration



TIC: BN035793.D\data.ms

(77) Benzidine

18.992min (0.000) 0.00 ng

response 368634

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.92
183.00	13.20	12.06
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

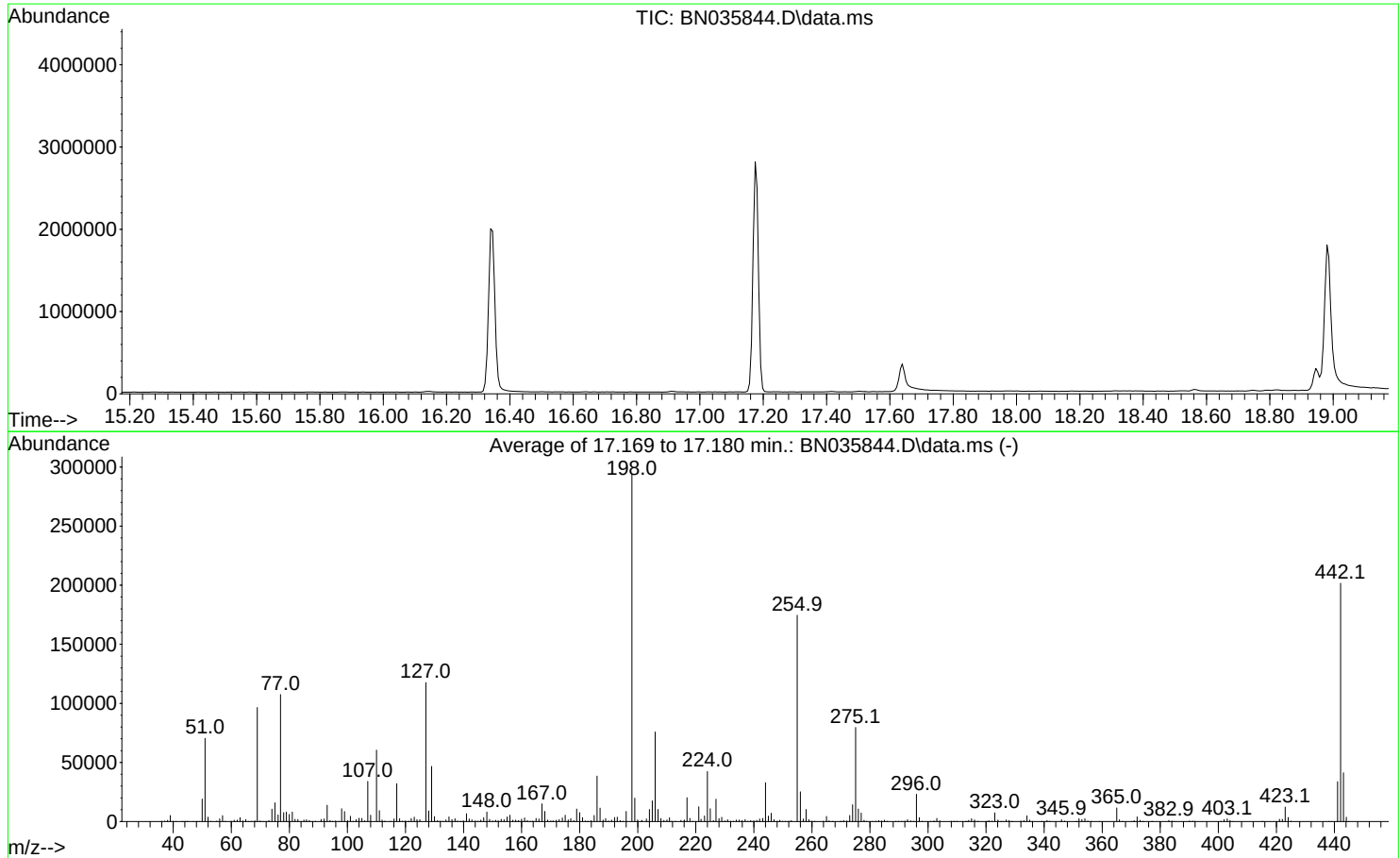
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	<u>BN035793.D</u>
Compound Name	Response	Retention Time
DDT	527491	20.245
DDD	59938	19.804
DDE	3046	19.286
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
62984	590475	10.67

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



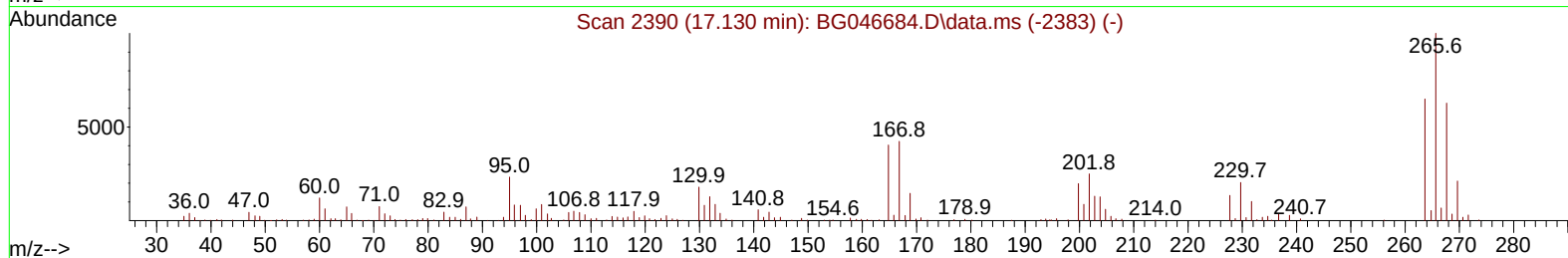
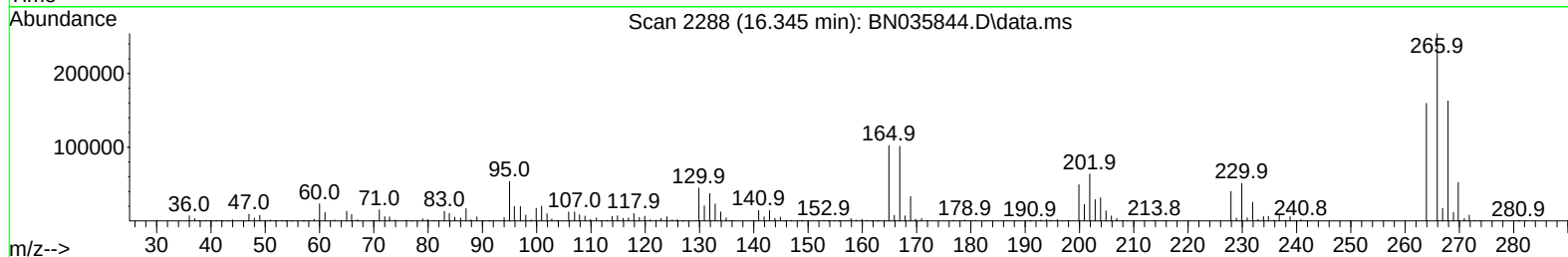
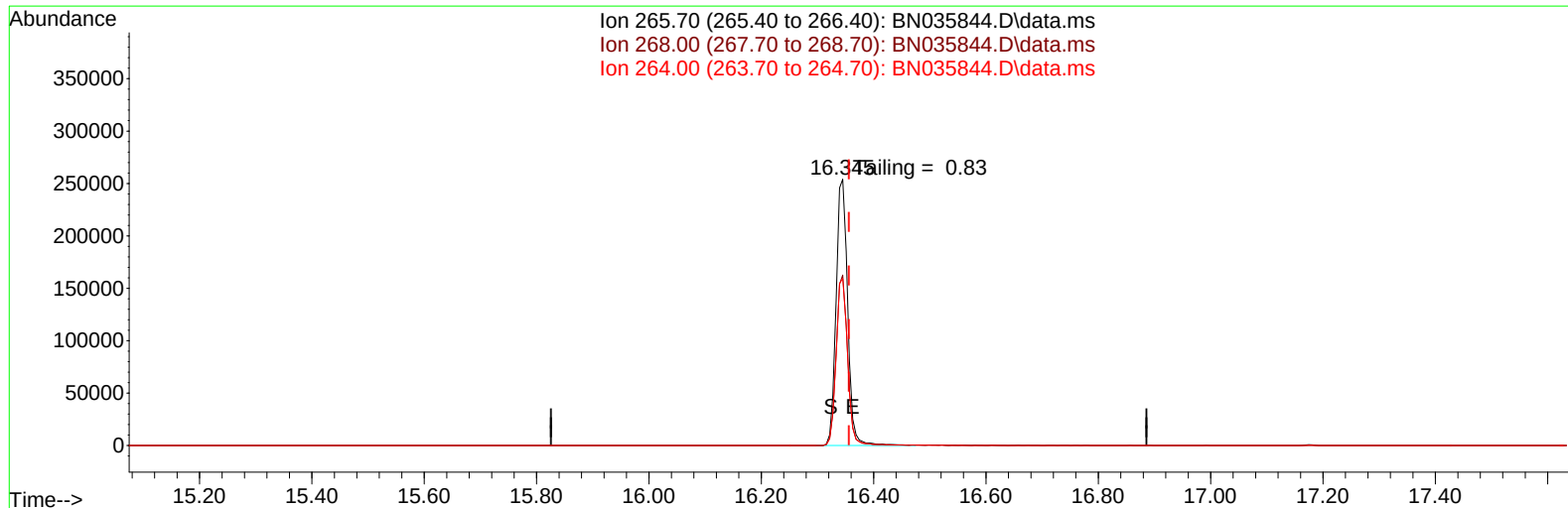
AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

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

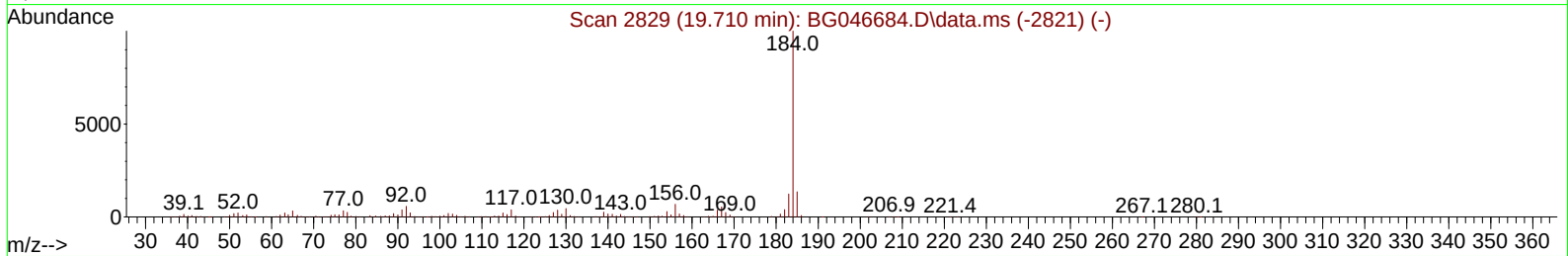
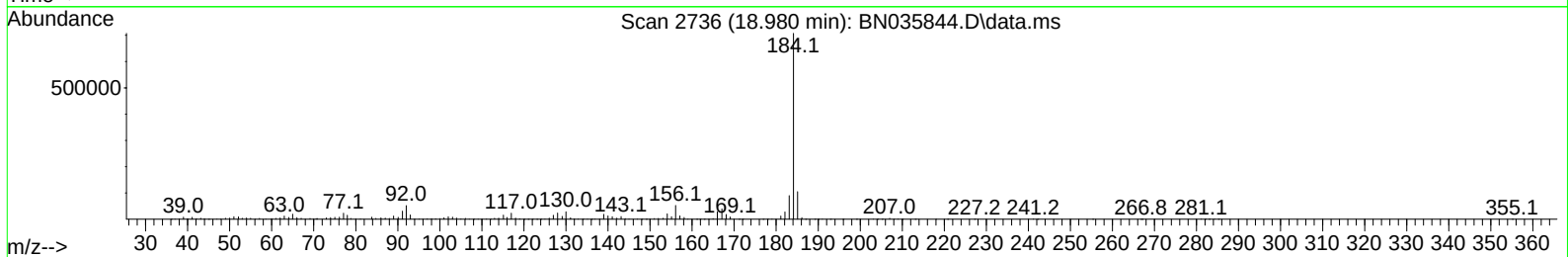
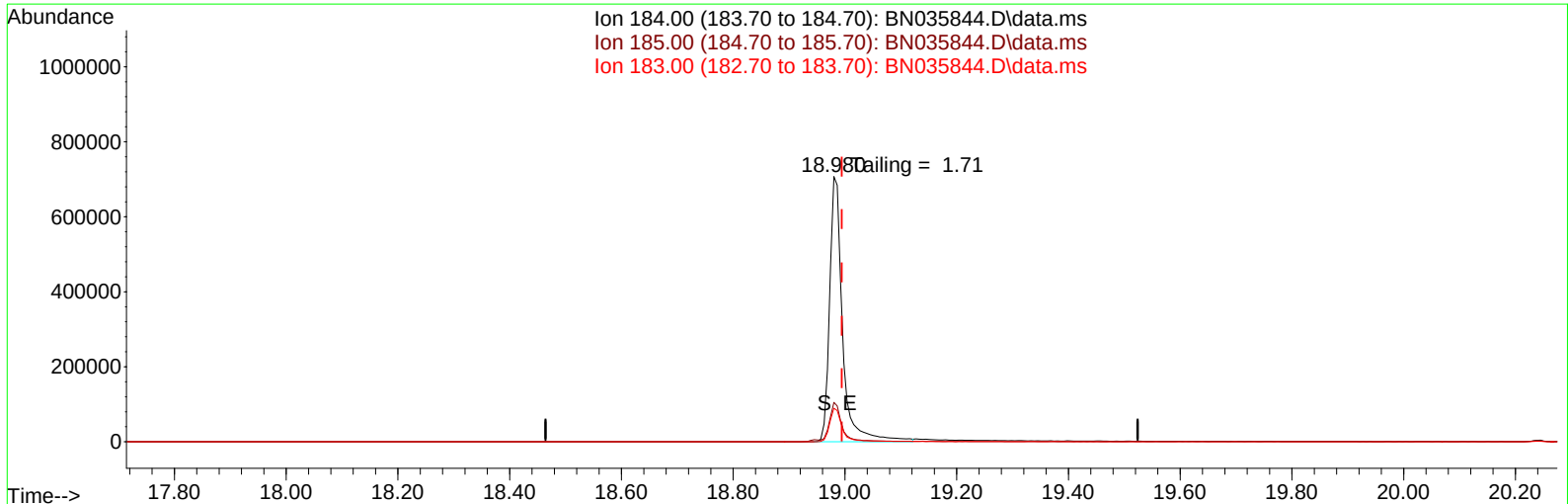
response 363016

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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165667BL	SDG No.:	P5282
Lab Sample ID:	PB165667BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035795.D	1	12/16/24 11:30	12/23/24 22:52	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		140%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4930		7.264			
1146-65-2	Naphthalene-d8	11400		10.009			
15067-26-2	Acenaphthene-d10	7250		13.924			
1517-22-2	Phenanthrene-d10	12600		16.711			
1719-03-5	Chrysene-d12	9940		20.956			
1520-96-3	Perylene-d12	9790		23.038			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035795.D
 Acq On : 23 Dec 2024 22:52
 Operator : RC/JU
 Sample : PB165667BL
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165667BL

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 00:13:30 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4926	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11442	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	7253	0.400	ng	-0.01
19) Phenanthrene-d10	16.711	188	12605	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	9944	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9785	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3783	0.307	ng	0.00
5) Phenol-d6	6.484	99	3587	0.242	ng	0.00
8) Nitrobenzene-d5	8.408	82	2999m	0.429	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	6566	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	426	0.083	ng	0.02
15) 2-Fluorobiphenyl	12.549	172	9720	0.355	ng	0.00
27) Fluoranthene-d10	18.761	212	13649	0.382	ng	0.00
31) Terphenyl-d14	19.388	244	11020	0.562	ng	0.00

Target Compounds Qvalue

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

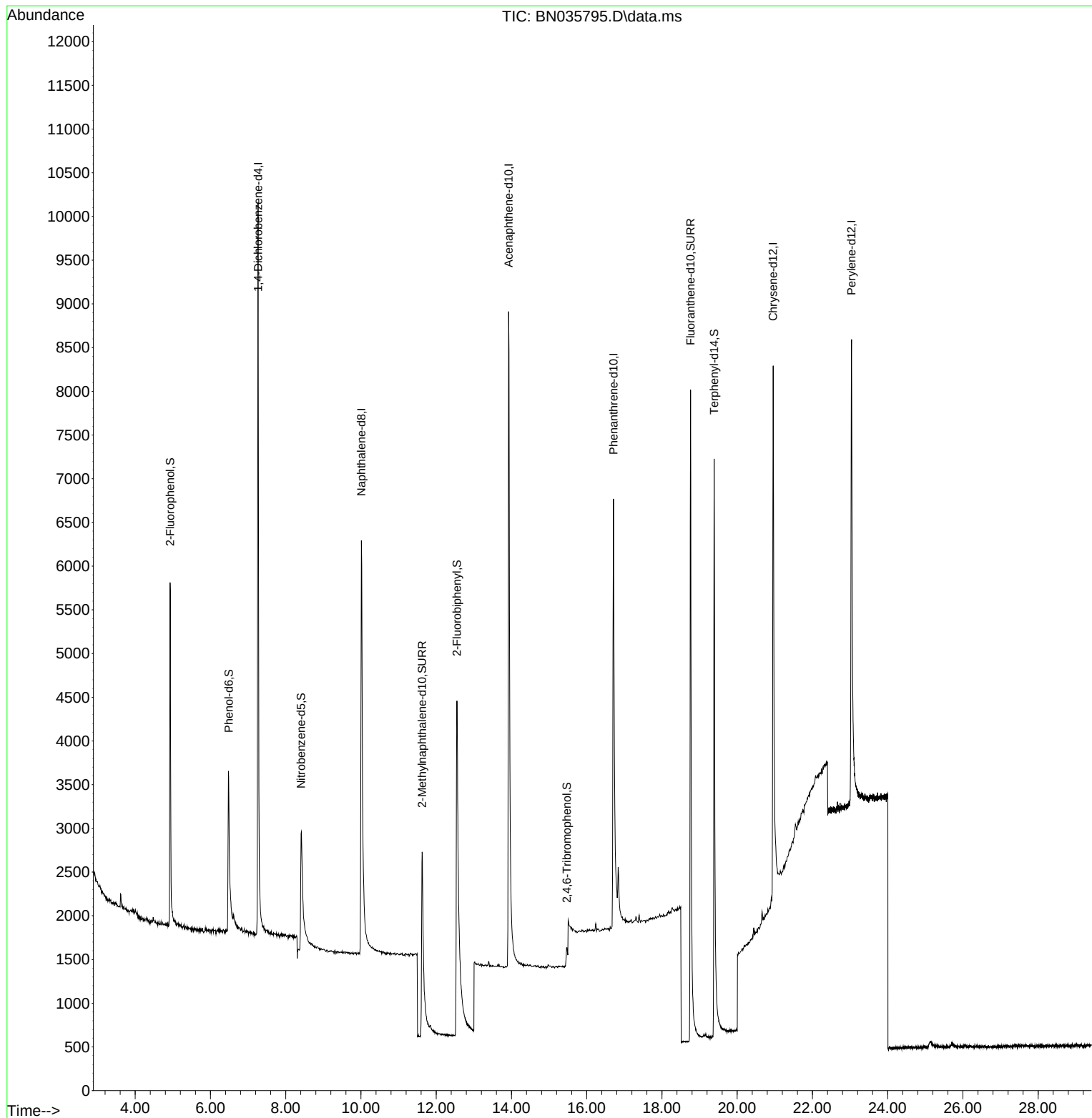
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035795.D
Acq On : 23 Dec 2024 22:52
Operator : RC/JU
Sample : PB165667BL
Misc :
ALS Vial : 77 Sample Multiplier: 1

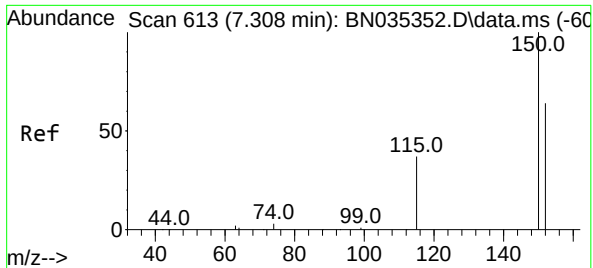
Instrument :
BNA_N
ClientSampleId :
PB165667BL

Manual Integrations
APPROVED

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

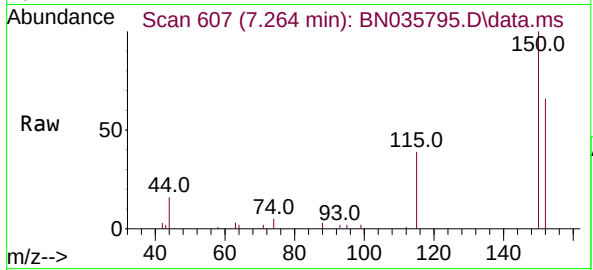
Quant Time: Dec 24 00:13:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

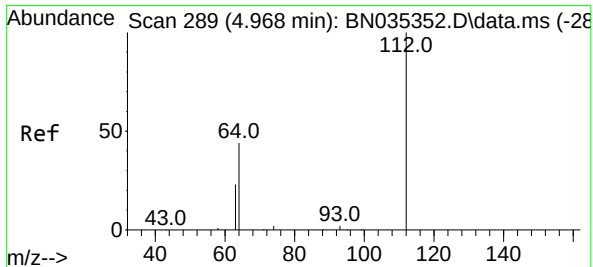
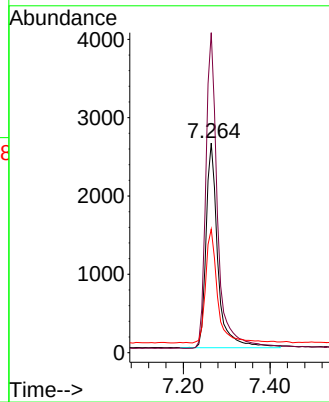
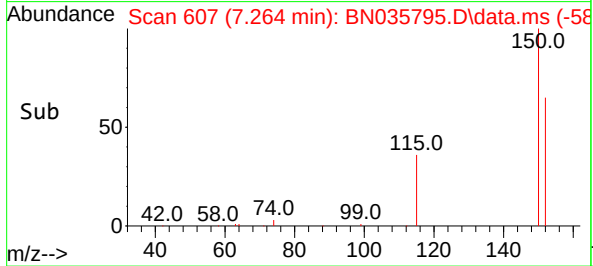
Instrument :
BNA_N
ClientSampleId :
PB165667BL



Tgt Ion:152 Resp: 4920
Ion Ratio Lower Upper
152 100
150 152.7 124.0 186.0
115 58.9 49.6 74.4

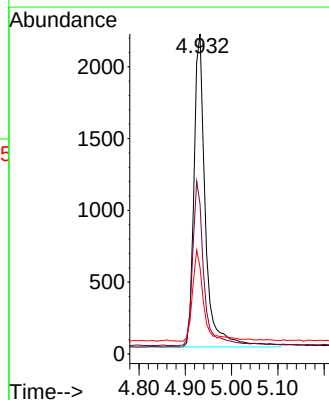
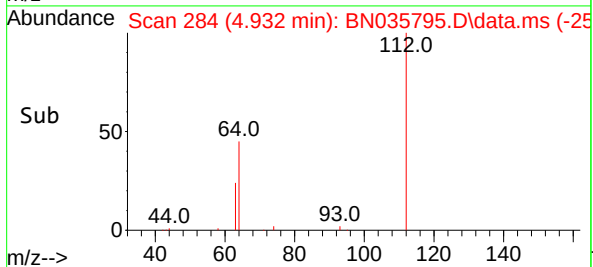
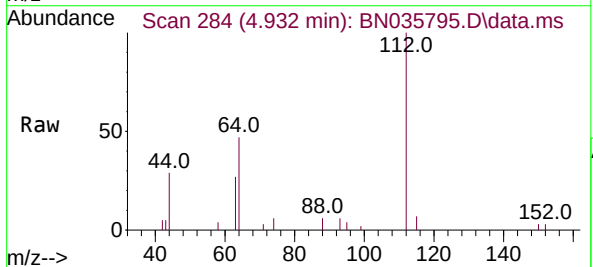
Manual Integrations
APPROVED

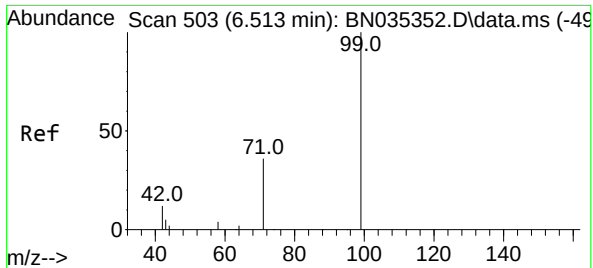
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.307 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

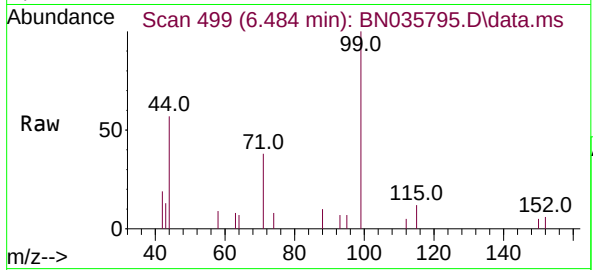
Tgt Ion:112 Resp: 3783
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 28.0 21.0 31.6





#5
Phenol-d6
Concen: 0.242 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

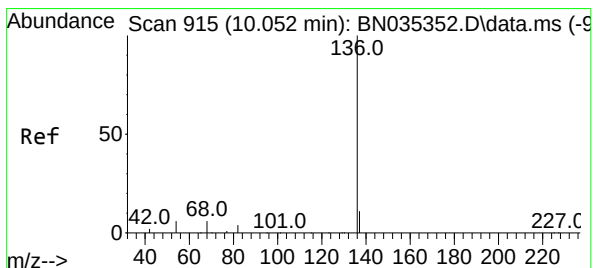
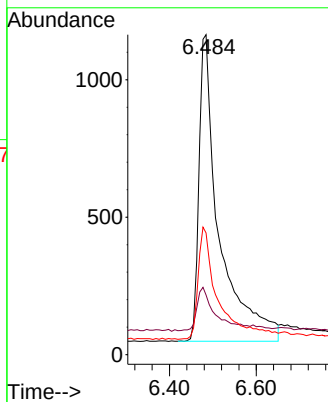
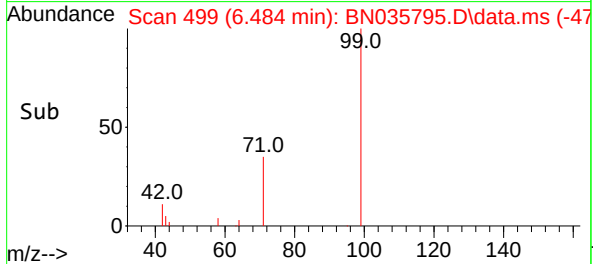
Instrument :
BNA_N
ClientSampleId :
PB165667BL



Tgt Ion: 99 Resp: 358
Ion Ratio Lower Upper
99 100
42 13.1 11.4 17.2
71 37.0 29.3 43.9

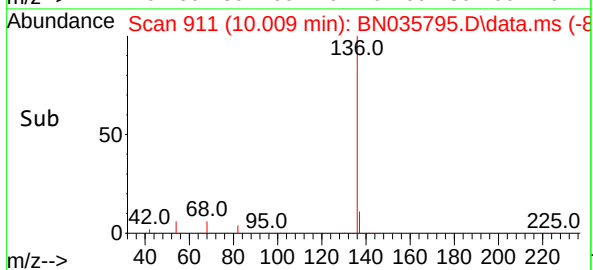
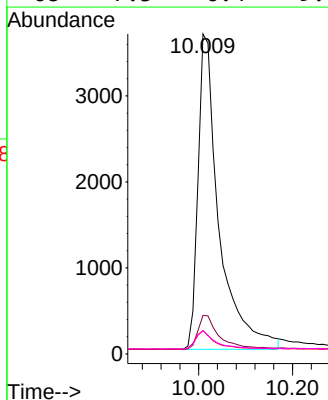
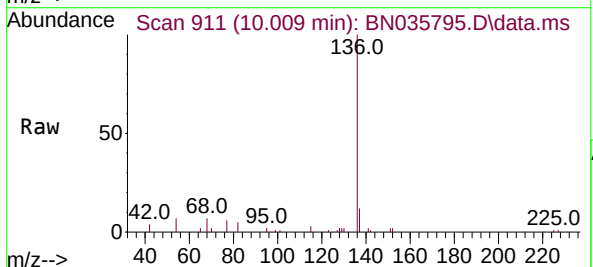
Manual Integrations
APPROVED

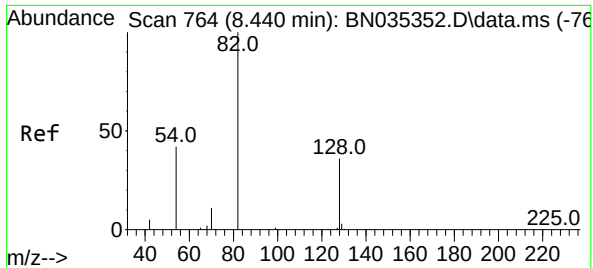
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

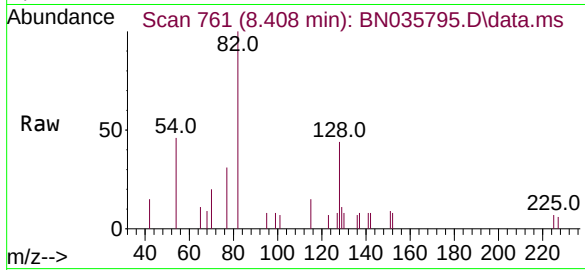
Tgt Ion:136 Resp: 11442
Ion Ratio Lower Upper
136 100
137 12.0 10.2 15.2
54 7.3 6.1 9.1
68 7.3 6.4 9.6





#8
Nitrobenzene-d5
Concen: 0.429 ng m
RT: 8.408 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

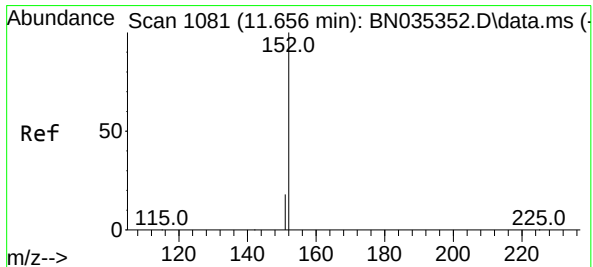
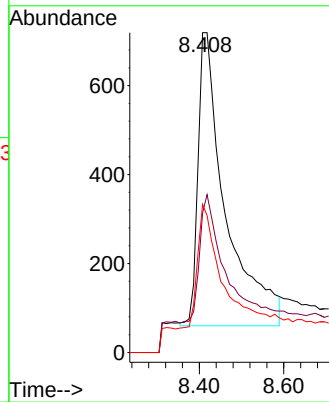
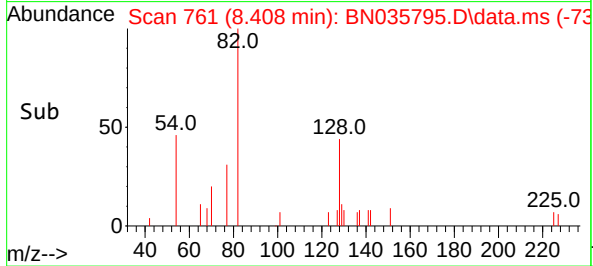
Instrument :
BNA_N
ClientSampleId :
PB165667BL



Tgt Ion: 82 Resp: 2998
Ion Ratio Lower Upper
82 100
128 43.7 33.4 50.0
54 46.3 36.7 55.1

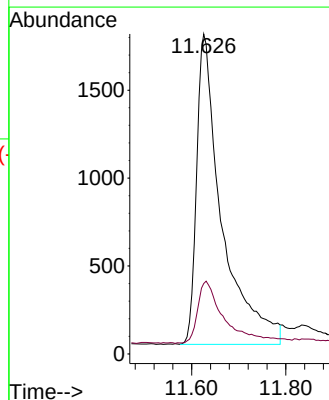
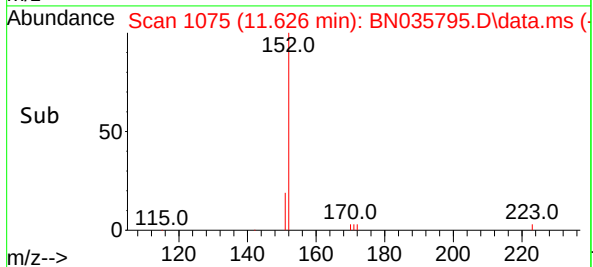
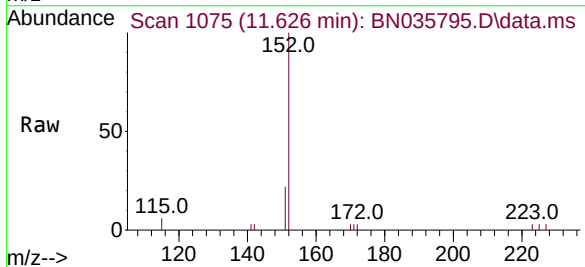
Manual Integrations
APPROVED

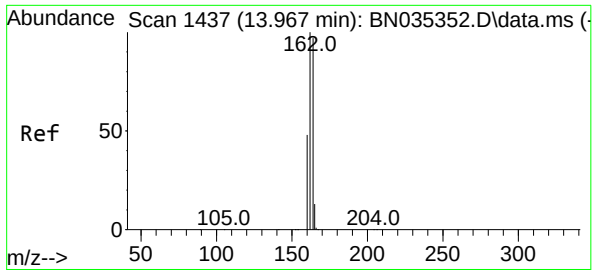
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.626 min Scan# 1075
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

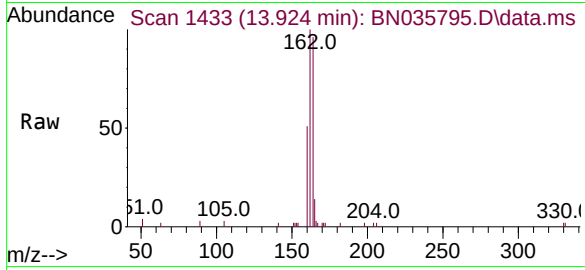
Tgt Ion:152 Resp: 6566
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

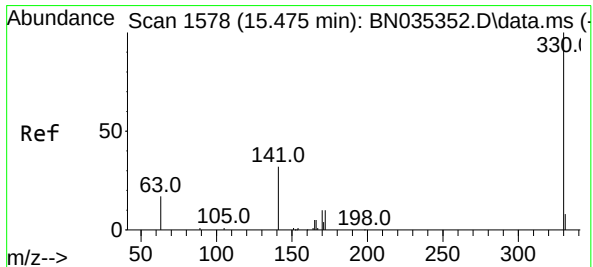
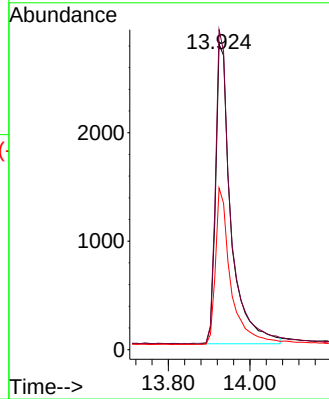
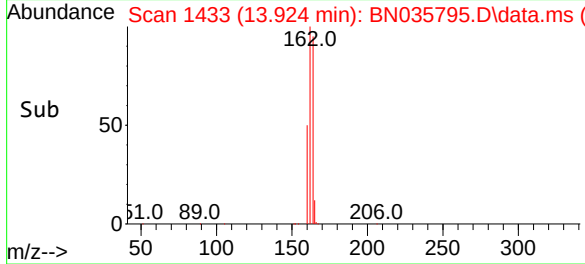
Instrument :
BNA_N
ClientSampleId :
PB165667BL



Tgt Ion:164 Resp: 725
Ion Ratio Lower Upper
164 100
162 104.6 82.2 123.2
160 52.9 40.1 60.1

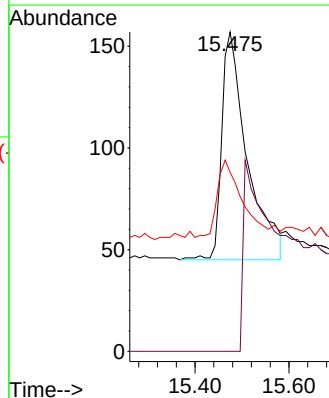
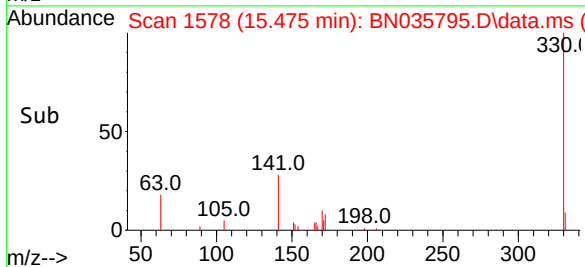
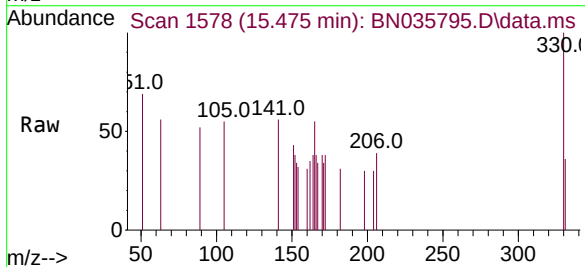
Manual Integrations
APPROVED

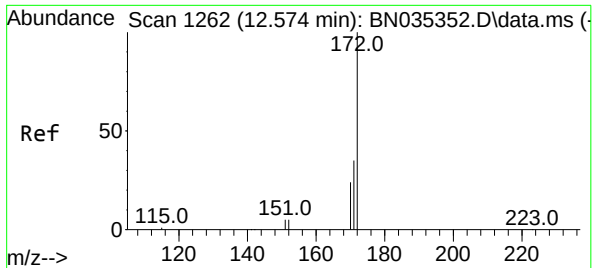
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

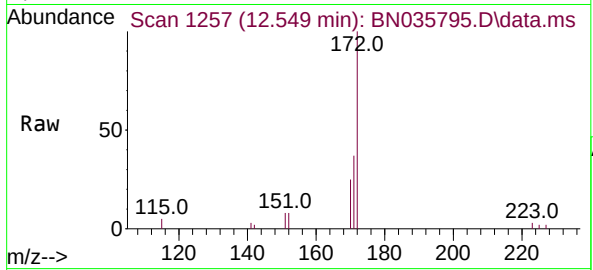
Tgt Ion:330 Resp: 426
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.6 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.549 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

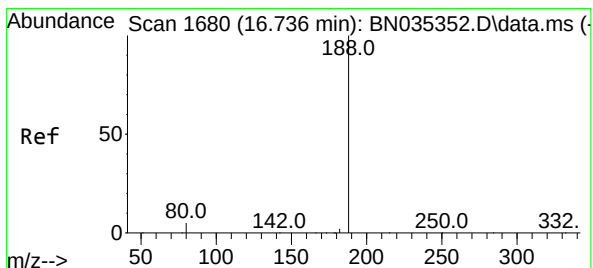
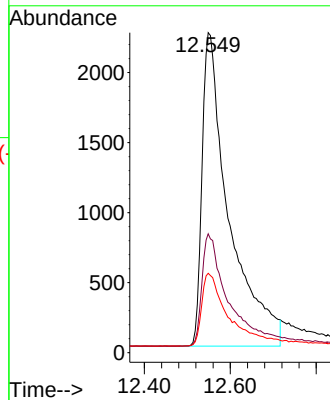
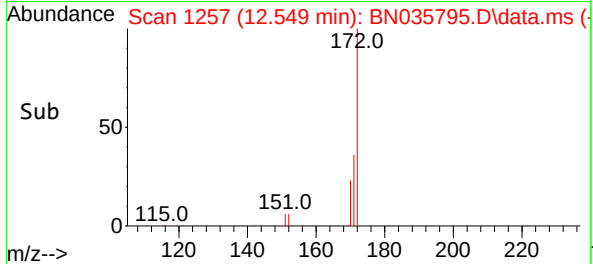
Instrument :
BNA_N
ClientSampleId :
PB165667BL



Tgt Ion:172 Resp: 9720
Ion Ratio Lower Upper
172 100
171 37.2 29.0 43.4
170 24.8 19.8 29.8

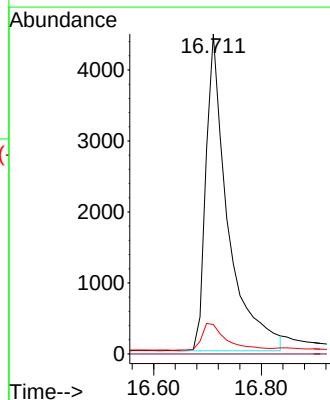
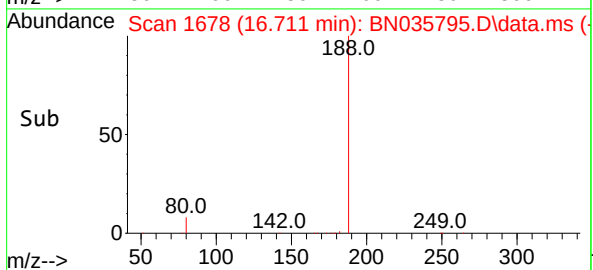
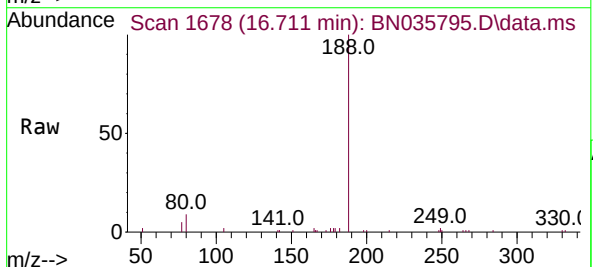
Manual Integrations
APPROVED

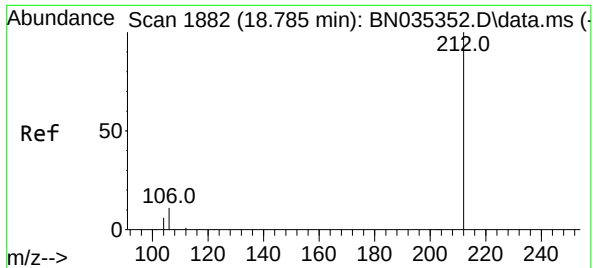
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:188 Resp: 12605
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 4.6 6.8





#27

Fluoranthene-d10

Concen: 0.382 ng

RT: 18.761 min Scan# 1877

Delta R.T. -0.000 min

Lab File: BN035795.D

Acq: 23 Dec 2024 22:52

Instrument :

BNA_N

ClientSampleId :

PB165667BL

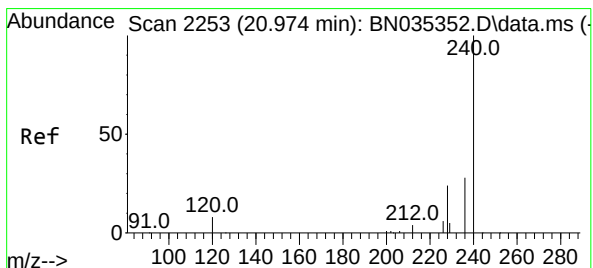
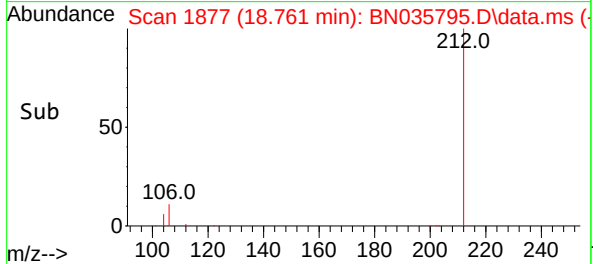
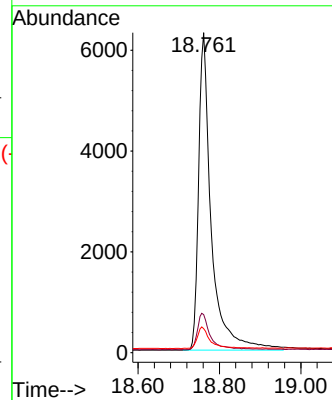
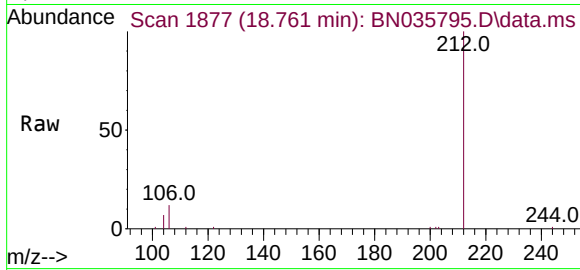
Tgt Ion:	212	Resp:	13649
Ion Ratio	Lower	Upper	
212	100		
106	11.8	9.2	13.8
104	6.6	5.3	7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#29

Chrysene-d12

Concen: 0.400 ng

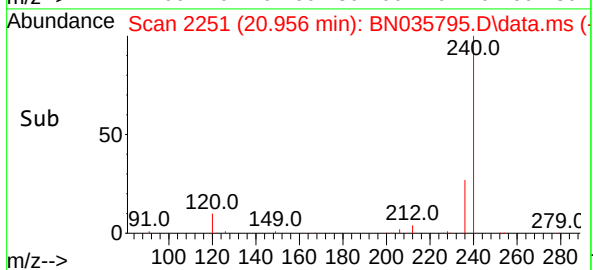
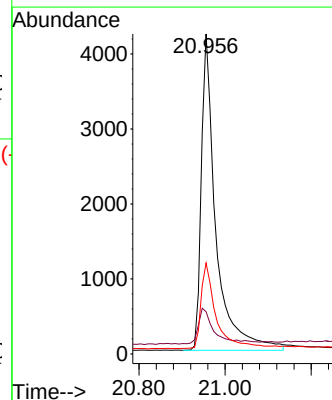
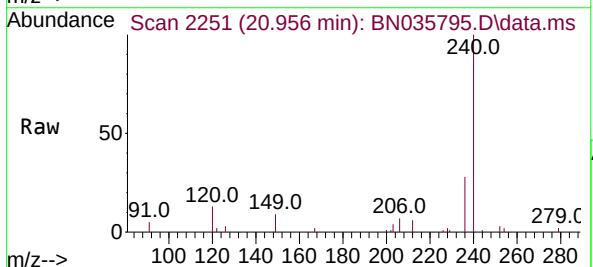
RT: 20.956 min Scan# 2251

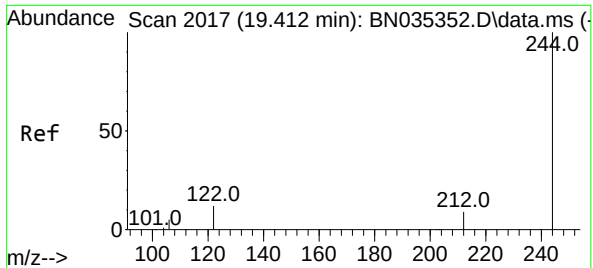
Delta R.T. -0.000 min

Lab File: BN035795.D

Acq: 23 Dec 2024 22:52

Tgt Ion:	240	Resp:	9944
Ion Ratio	Lower	Upper	
240	100		
120	13.2	7.9	11.9#
236	28.4	22.9	34.3





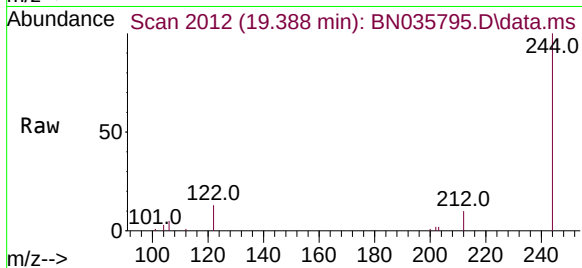
#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.388 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :

BNA_N

ClientSampleId :

PB165667BL

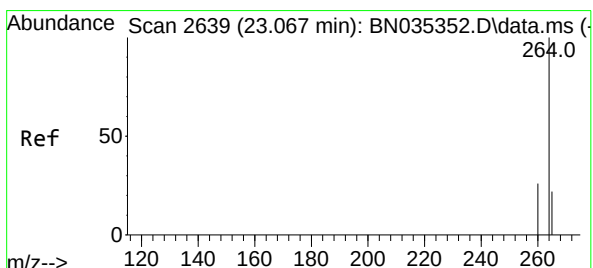
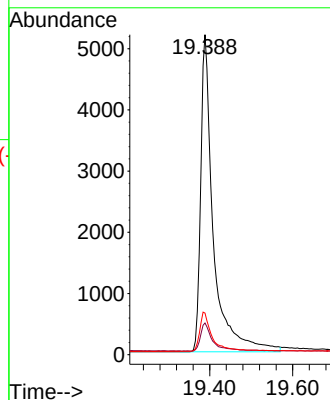
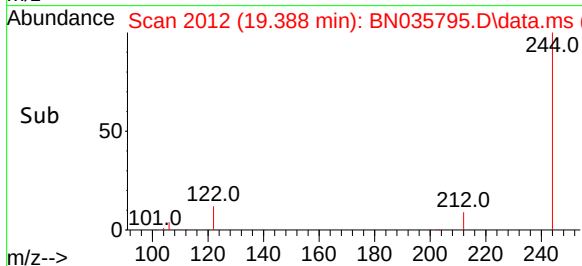


Tgt Ion:244 Resp: 11020
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.0 10.3 15.5

Manual Integrations

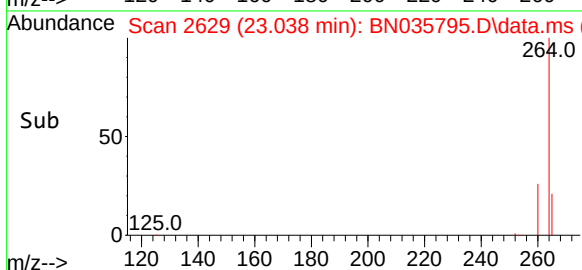
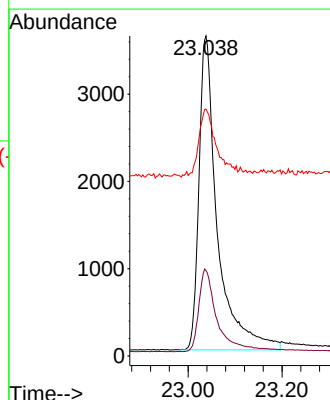
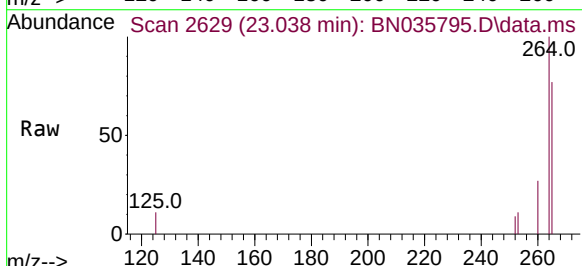
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:264 Resp: 9785
Ion Ratio Lower Upper
264 100
260 26.7 21.4 32.2
265 77.1 40.2 60.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165667BS	SDG No.:	P5282
Lab Sample ID:	PB165667BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035808.D	1	12/16/24 11:30	12/24/24 06:34	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		115%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47	*	55 - 111		116%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4070	7.264				
1146-65-2	Naphthalene-d8	9750	10.009				
15067-26-2	Acenaphthene-d10	5530	13.914				
1517-22-2	Phenanthrene-d10	10900	16.698				
1719-03-5	Chrysene-d12	9470	20.947				
1520-96-3	Perylene-d12	9440	23.032				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035808.D
 Acq On : 24 Dec 2024 06:34
 Operator : RC/JU
 Sample : PB165667BS
 Misc :
 ALS Vial : 92 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165667BS

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 07:07:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4067	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9754	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	5527	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10920	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9467	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	9435	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3134	0.308	ng	0.00
5) Phenol-d6	6.477	99	3400	0.278	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2771m	0.465	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	7007	0.459	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	647	0.165	ng	0.00
15) 2-Fluorobiphenyl	12.528	172	8330	0.399	ng	-0.02
27) Fluoranthene-d10	18.752	212	11348	0.367	ng	0.00
31) Terphenyl-d14	19.384	244	8056	0.431	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1441	0.371	ng	# 72
3) n-Nitrosodimethylamine	3.271	42	1276	0.394	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	3429	0.333	ng	99
9) Naphthalene	10.052	128	9192	0.357	ng	100
10) Hexachlorobutadiene	10.340	225	2323	0.391	ng	# 99
12) 2-Methylnaphthalene	11.687	142	5969	0.324	ng	98
16) Acenaphthylene	13.636	152	8595	0.370	ng	99
17) Acenaphthene	13.978	154	5618	0.365	ng	99
18) Fluorene	14.994	166	7068	0.320	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	260	0.242	ng	# 30
21) 4-Bromophenyl-phenylether	15.904	248	2229	0.349	ng	# 91
22) Hexachlorobenzene	16.003	284	3165	0.422	ng	98
23) Atrazine	16.202	200	1619	0.356	ng	96
24) Pentachlorophenol	16.363	266	1112	0.341	ng	# 84
25) Phenanthrene	16.736	178	10790	0.360	ng	99
26) Anthracene	16.835	178	9628	0.355	ng	99
28) Fluoranthene	18.785	202	12957	0.320	ng	100
30) Pyrene	19.152	202	13632	0.390	ng	99
32) Benzo(a)anthracene	20.929	228	10627	0.321	ng	99
33) Chrysene	20.983	228	14185	0.415	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4640	0.355	ng	100
36) Indeno(1,2,3-cd)pyrene	25.053	276	13497	0.366	ng	98
37) Benzo(b)fluoranthene	22.421	252	22672	0.657	ng	96
38) Benzo(k)fluoranthene	22.462	252	14330	0.422	ng	97
39) Benzo(a)pyrene	22.942	252	11221	0.395	ng	# 92
40) Dibenzo(a,h)anthracene	25.076	278	9782	0.336	ng	93
41) Benzo(g,h,i)perylene	25.664	276	11572	0.380	ng	99

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

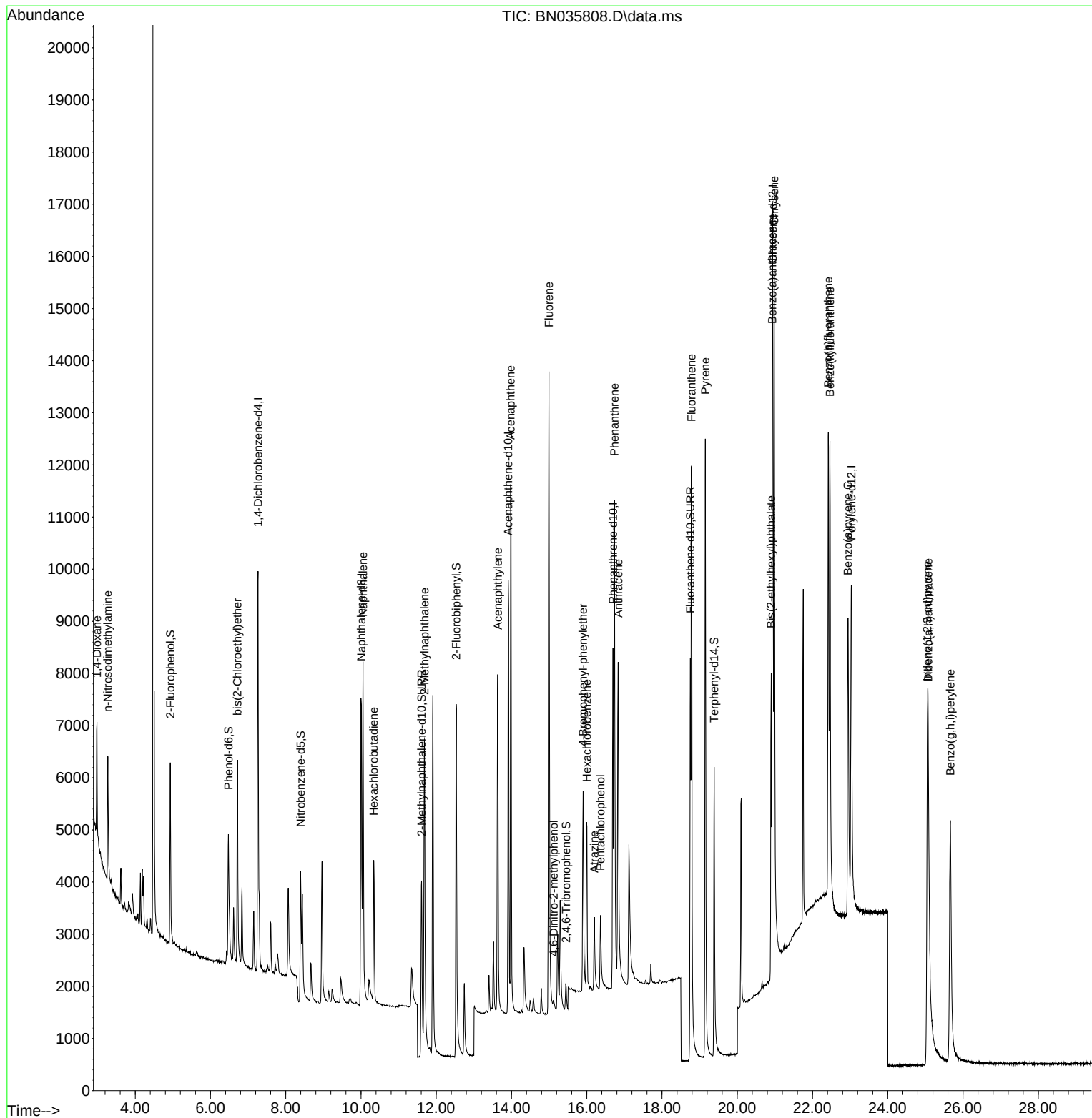
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035808.D
 Acq On : 24 Dec 2024 06:34
 Operator : RC/JU
 Sample : PB165667BS
 Misc :
 ALS Vial : 92 Sample Multiplier: 1

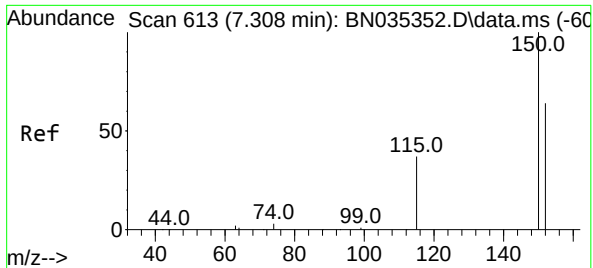
Instrument :
 BNA_N
 ClientSampleId :
 PB165667BS

Manual Integrations APPROVED

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

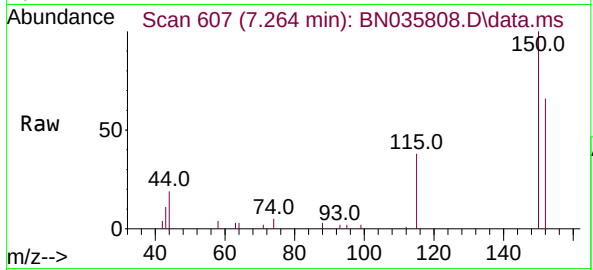
Quant Time: Dec 24 07:07:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

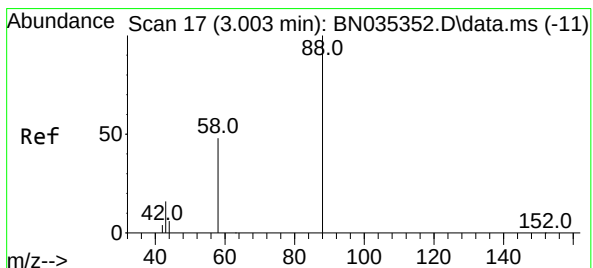
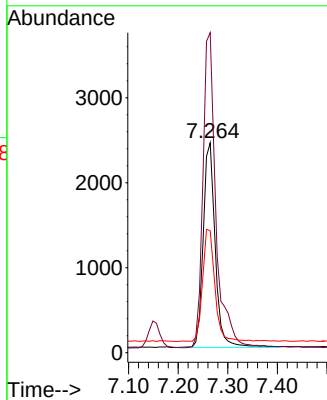
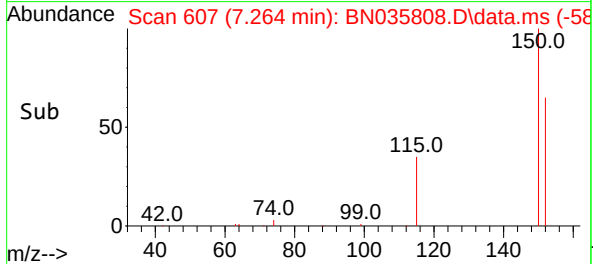
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion: 152 Resp: 406
Ion Ratio Lower Upper
152 100
150 152.4 124.0 186.0
115 58.0 49.6 74.4

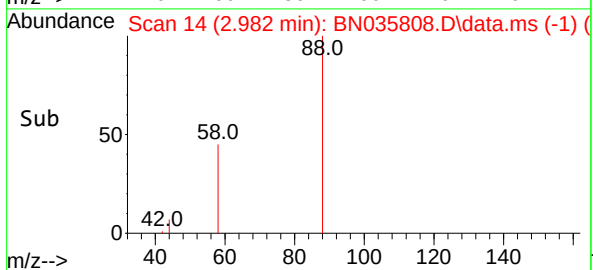
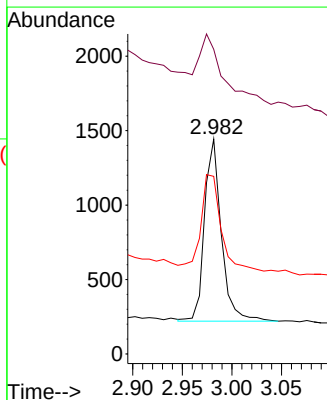
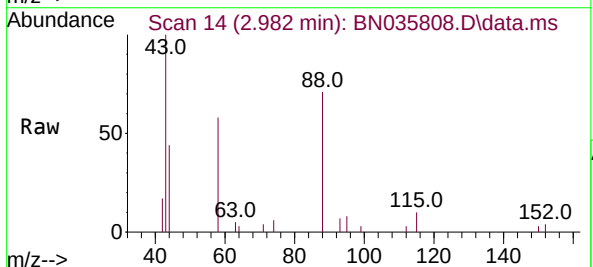
Manual Integrations
APPROVED

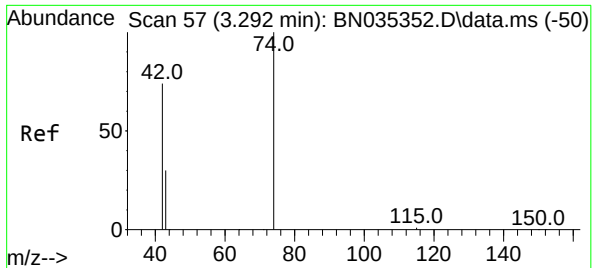
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

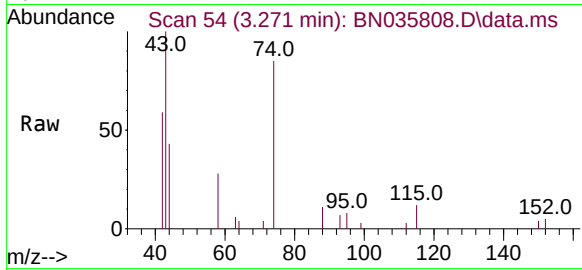
Tgt Ion: 88 Resp: 1441
Ion Ratio Lower Upper
88 100
43 55.2 17.2 25.8#
58 64.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.394 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

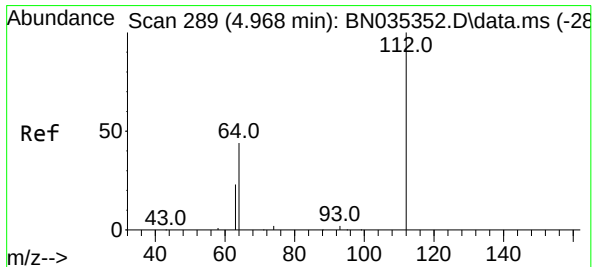
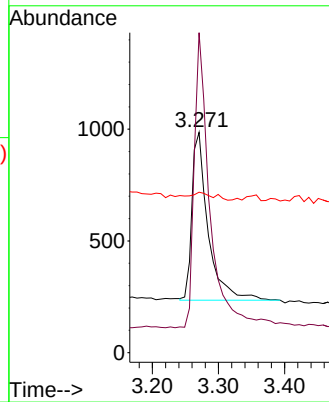
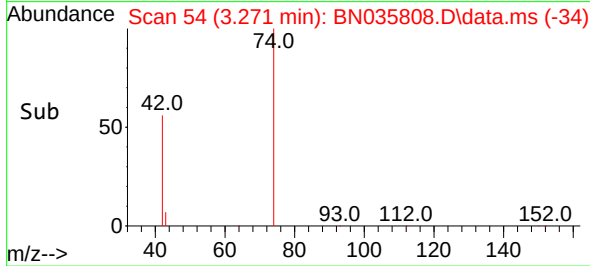
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion: 42 Resp: 1270
Ion Ratio Lower Upper
42 100
74 171.2 124.9 187.3
44 6.1 2.2 3.4

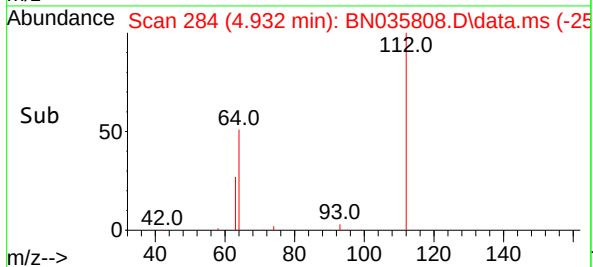
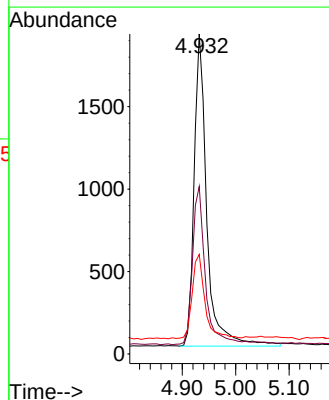
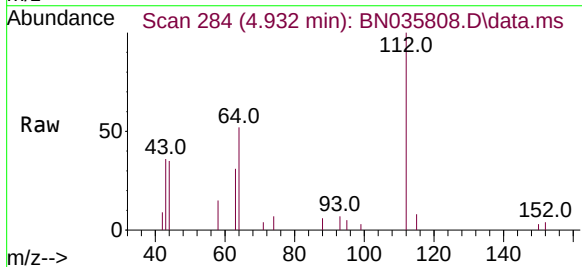
Manual Integrations
APPROVED

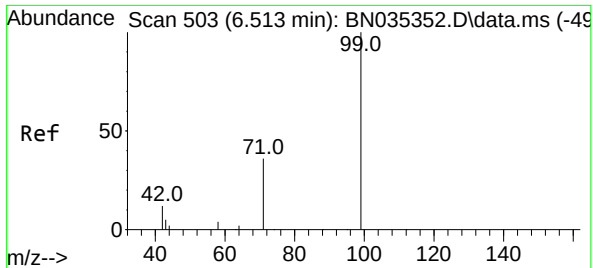
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.308 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:112 Resp: 3134
Ion Ratio Lower Upper
112 100
64 51.3 39.8 59.8
63 27.3 21.0 31.6





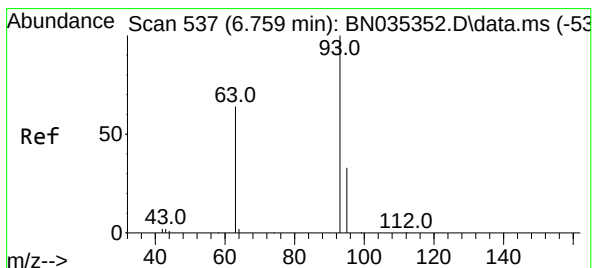
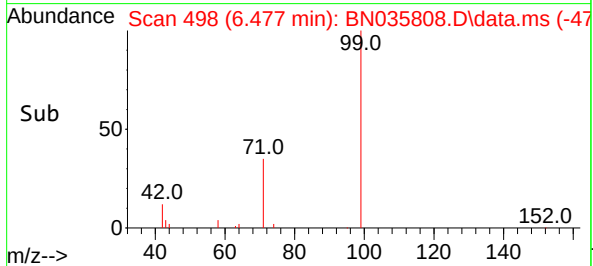
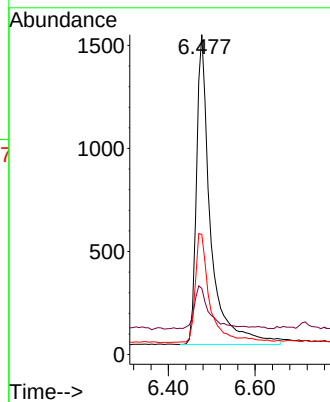
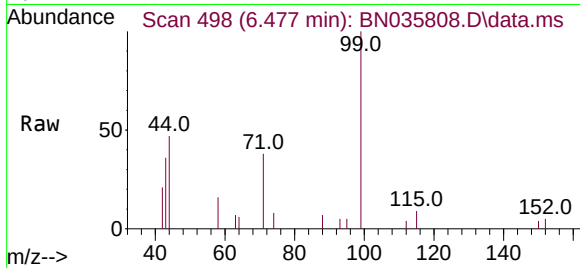
#5
Phenol-d6
Concen: 0.278 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	34.8	29.3	43.9

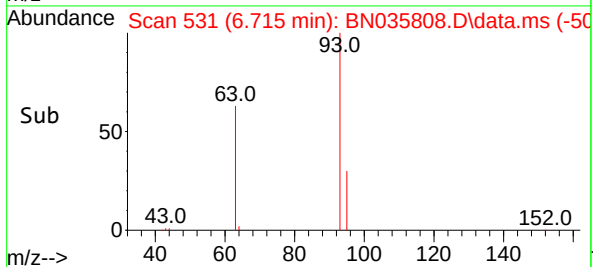
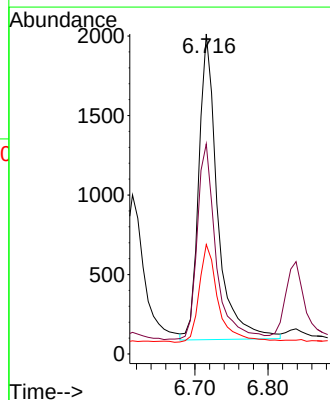
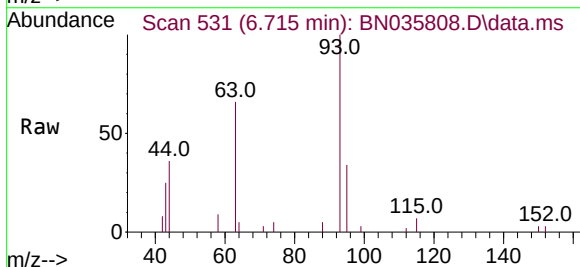
Manual Integrations
APPROVED

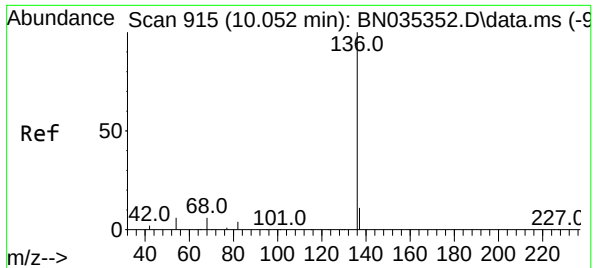
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.333 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

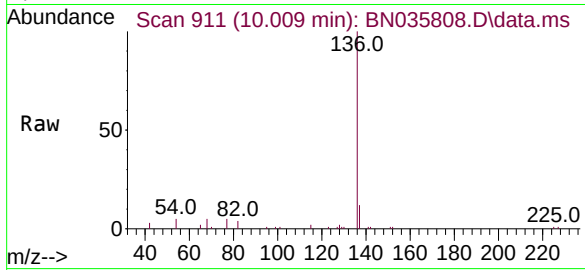
Tgt Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	32.7	25.7	38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

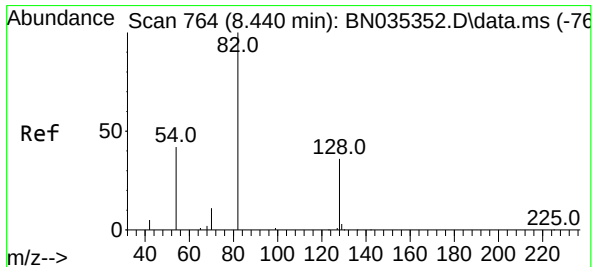
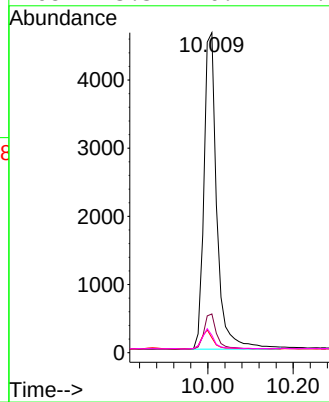
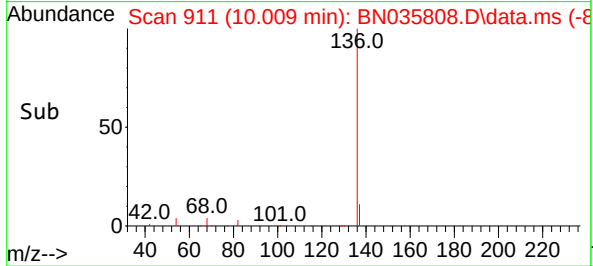
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:136 Resp: 9754
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 4.7 6.1 9.1
68 5.5 6.4 9.6#

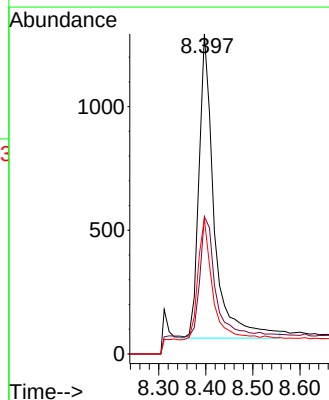
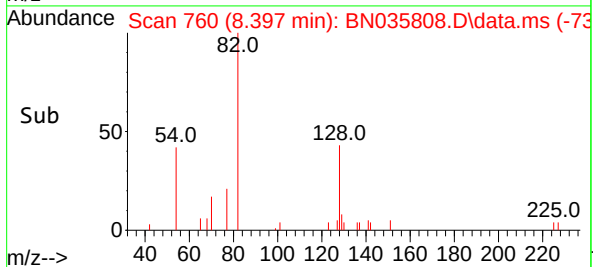
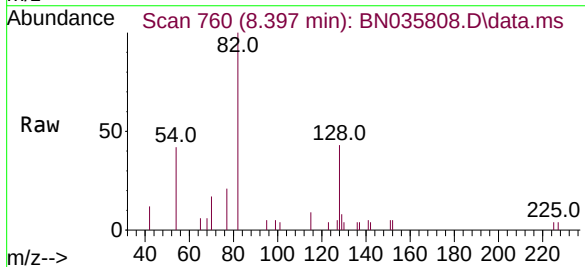
Manual Integrations
APPROVED

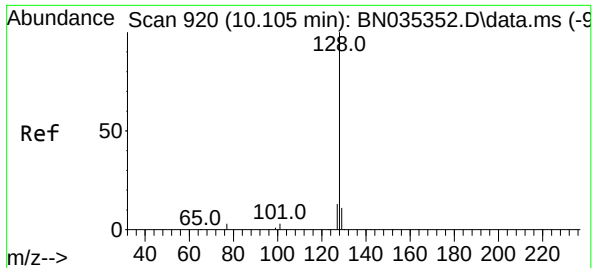
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.465 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 82 Resp: 2771
Ion Ratio Lower Upper
82 100
128 43.0 33.4 50.0
54 42.2 36.7 55.1





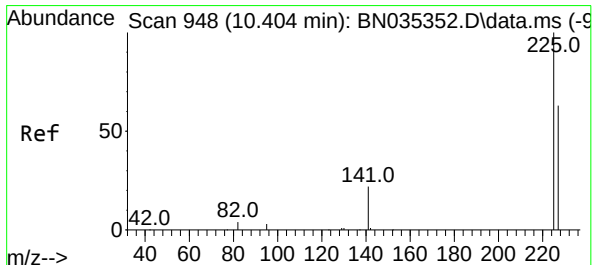
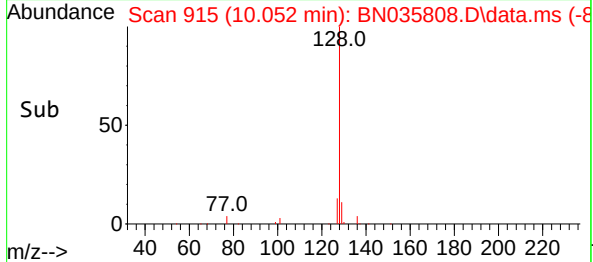
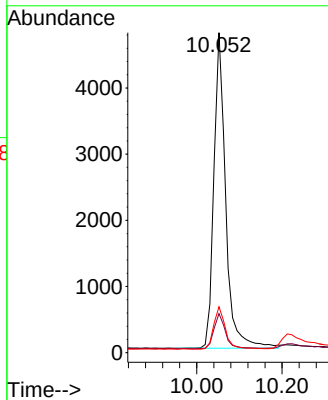
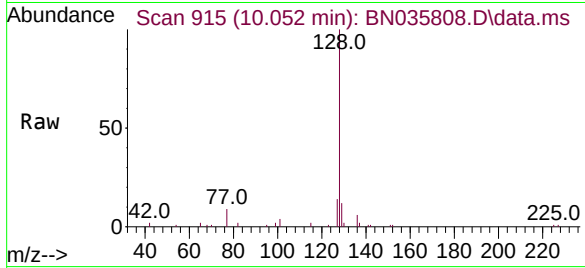
#9
Naphthalene
Concen: 0.357 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:128 Resp: 919
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.4 11.4 17.2

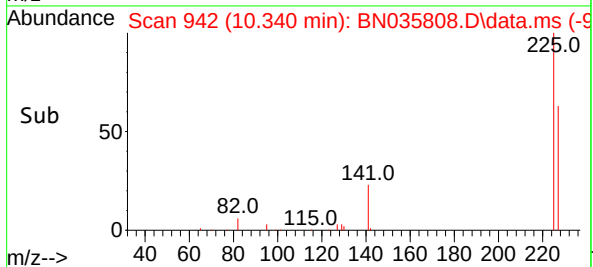
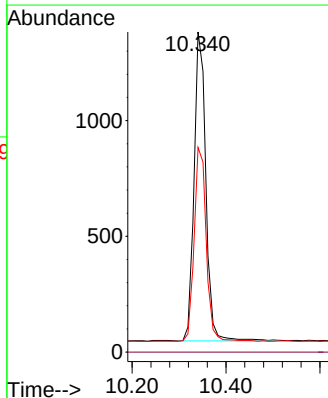
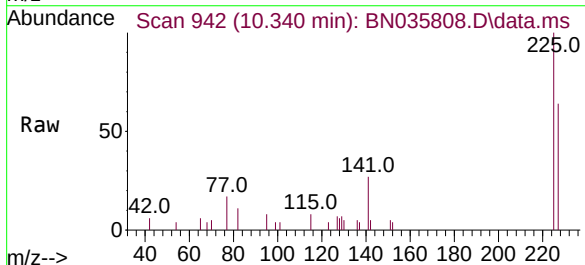
Manual Integrations
APPROVED

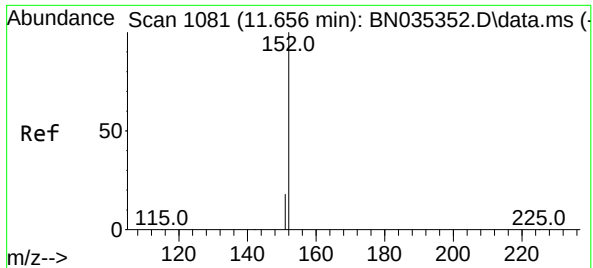
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

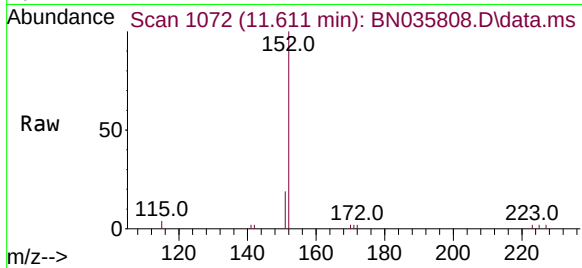
Tgt Ion:225 Resp: 2323
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.459 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

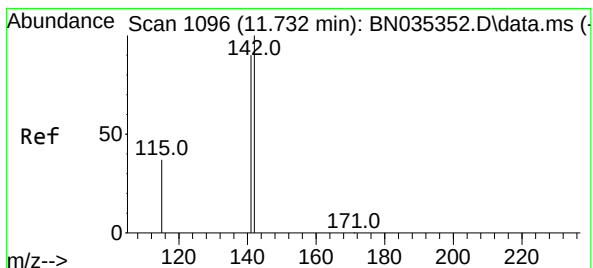
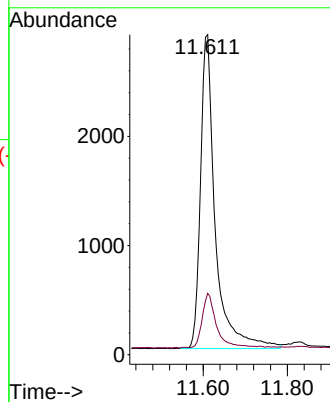
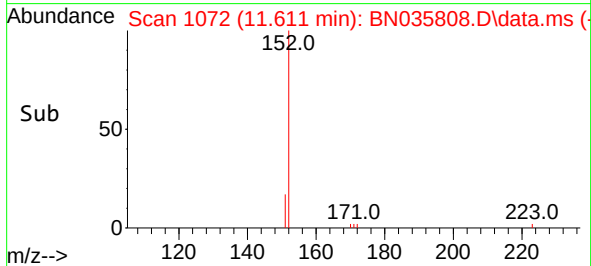
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:152 Resp: 700
Ion Ratio Lower Upper
152 100
151 16.5 16.6 25.0

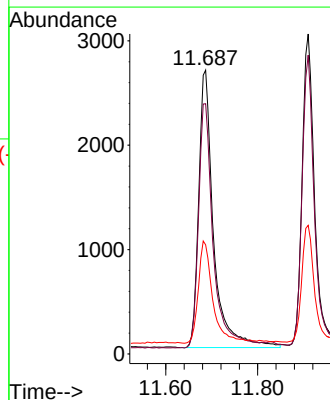
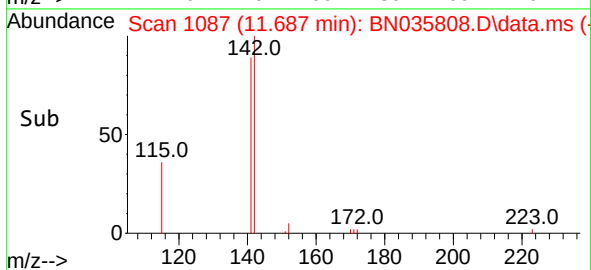
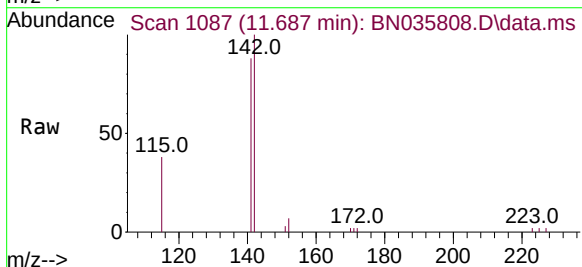
Manual Integrations
APPROVED

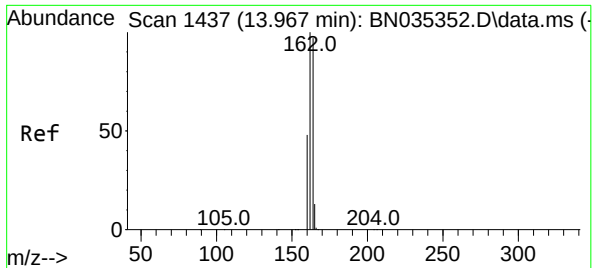
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.324 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

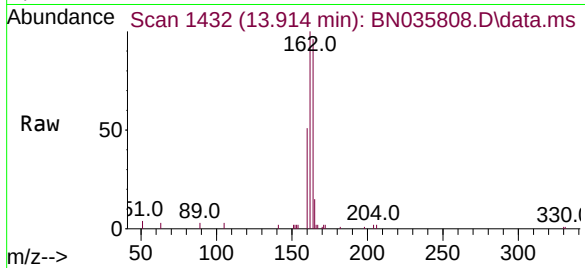
Tgt Ion:142 Resp: 5969
Ion Ratio Lower Upper
142 100
141 88.2 72.2 108.4
115 38.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

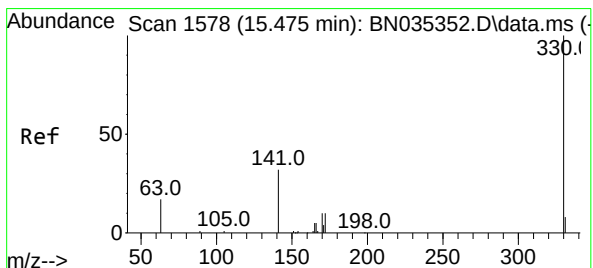
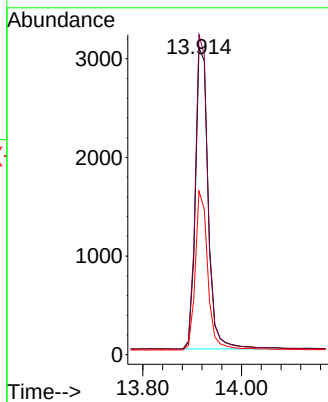
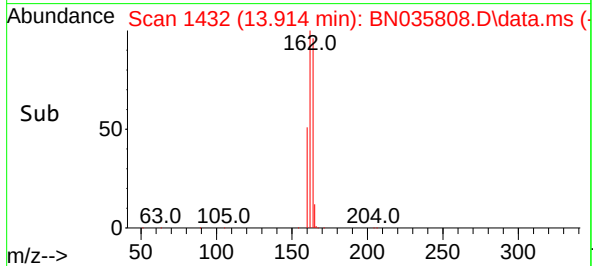
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:164 Resp: 552
Ion Ratio Lower Upper
164 100
162 104.3 82.2 123.2
160 53.3 40.1 60.1

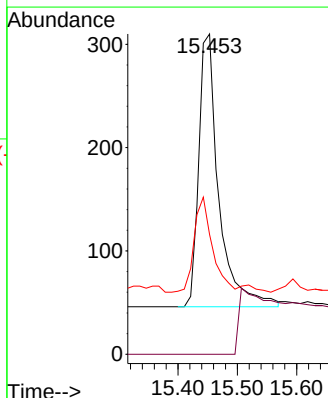
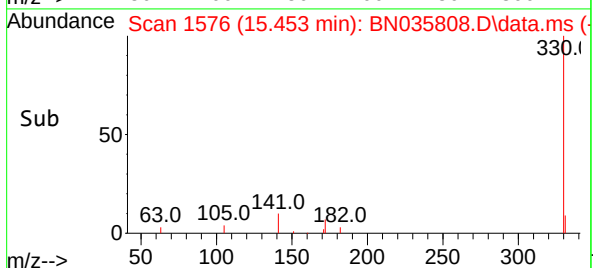
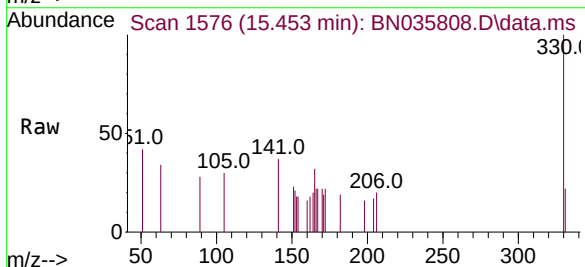
Manual Integrations
APPROVED

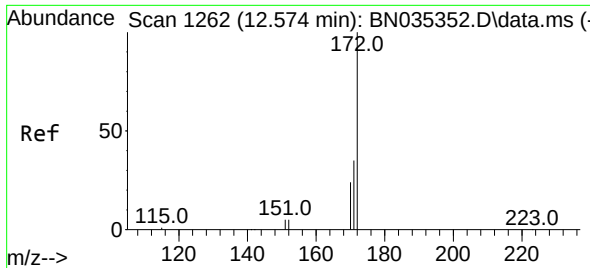
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.165 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:330 Resp: 647
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

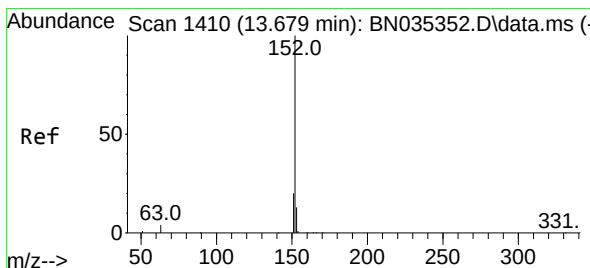
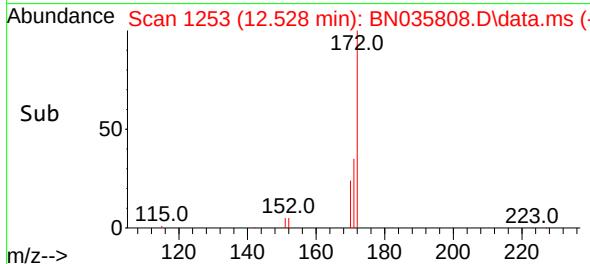
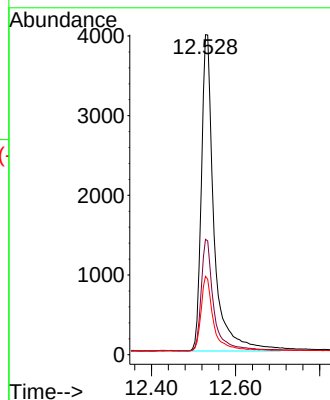
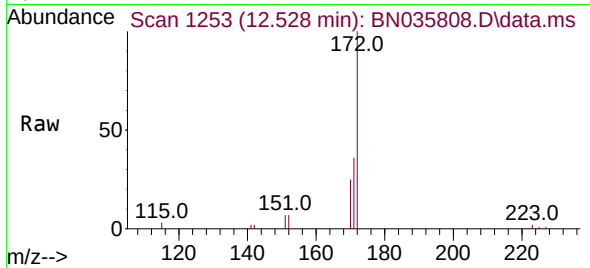
PB165667BS

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.5	19.8	29.8

Manual Integrations

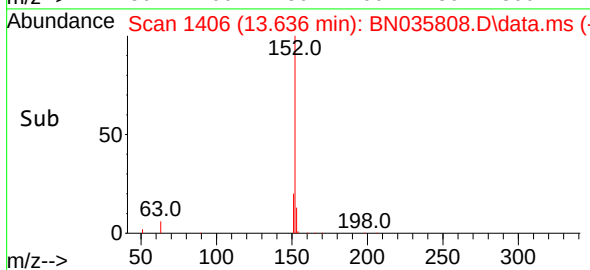
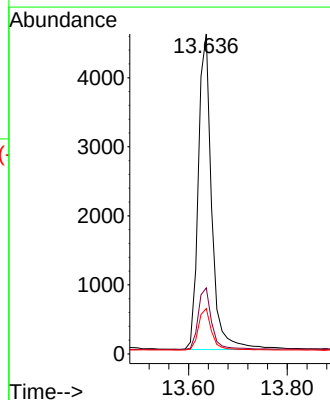
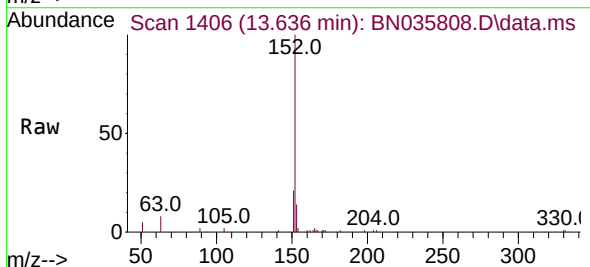
APPROVED

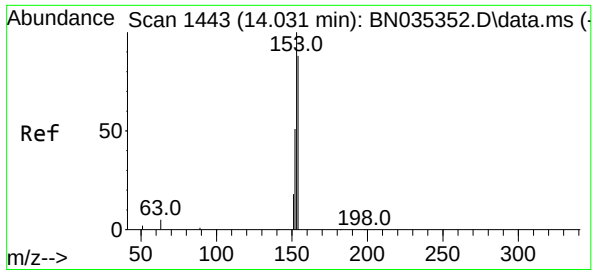
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

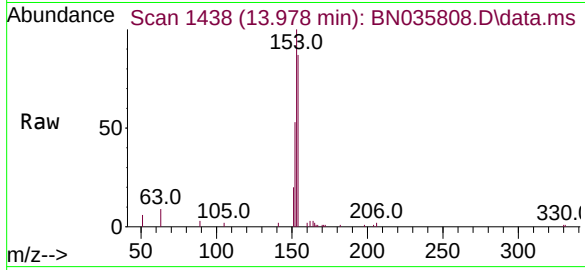
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6





#17
Acenaphthene
Concen: 0.365 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

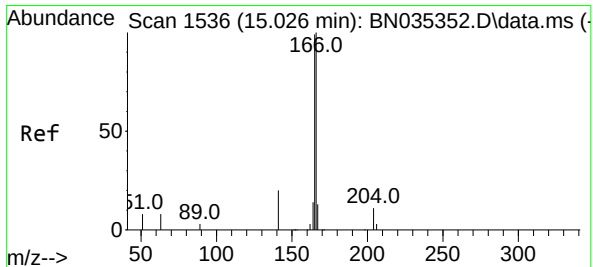
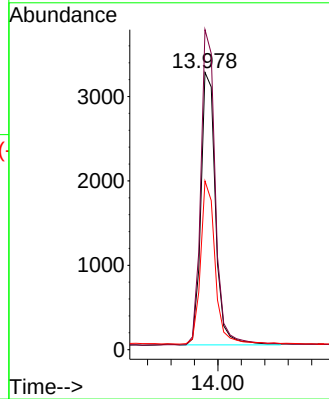
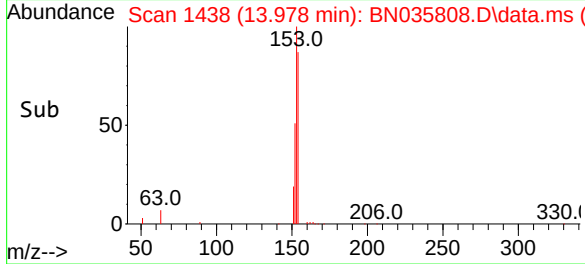
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:154 Resp: 5618
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 59.8 49.0 73.6

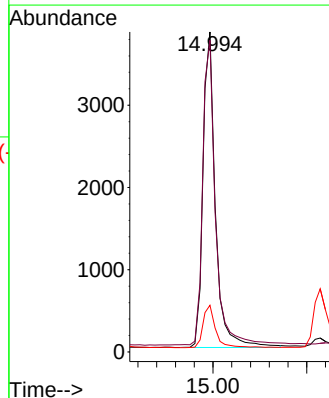
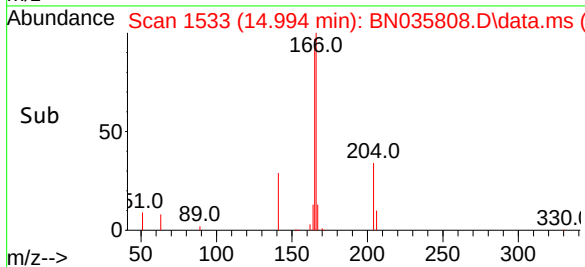
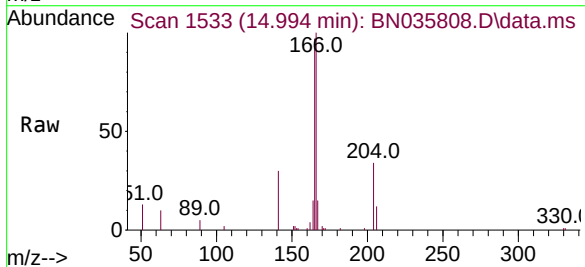
Manual Integrations
APPROVED

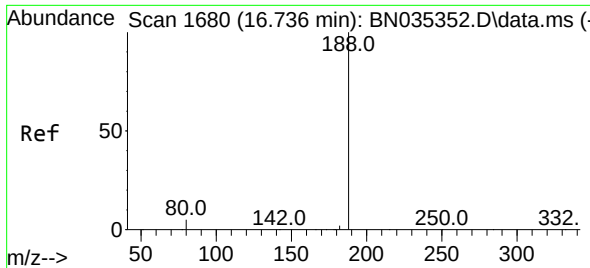
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.320 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

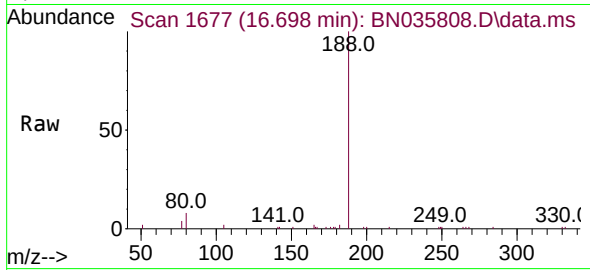
Tgt Ion:166 Resp: 7068
Ion Ratio Lower Upper
166 100
165 98.7 79.7 119.5
167 13.7 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

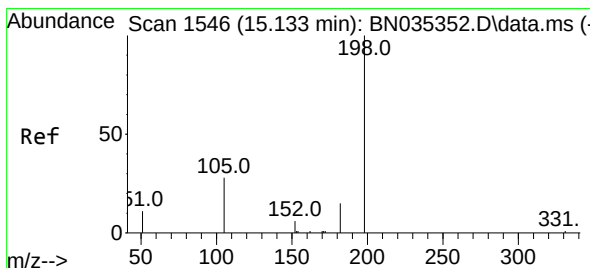
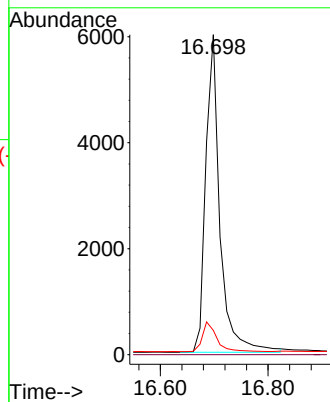
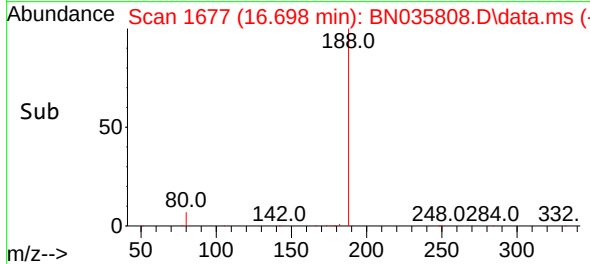
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:188 Resp: 10920
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.6 4.6 6.8

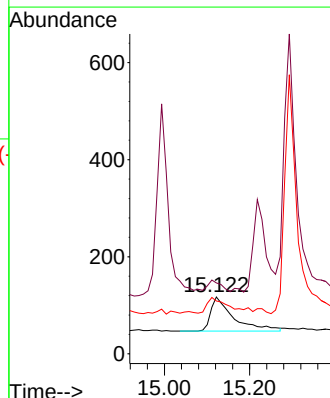
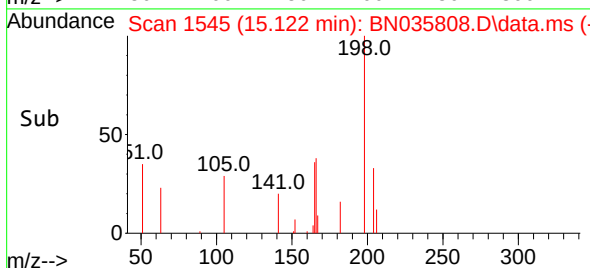
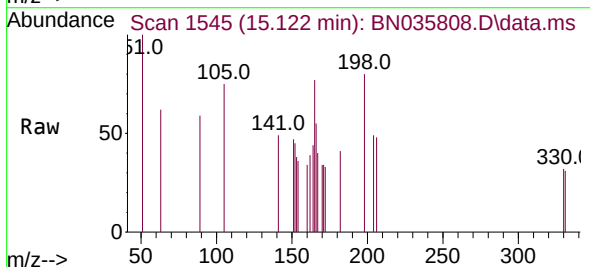
Manual Integrations
APPROVED

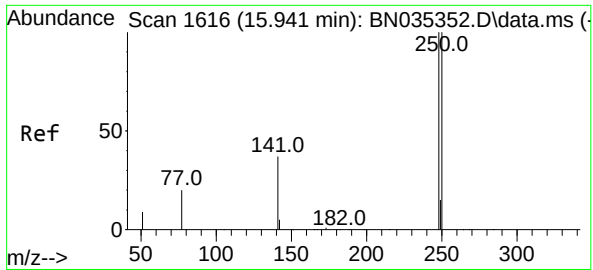
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.242 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

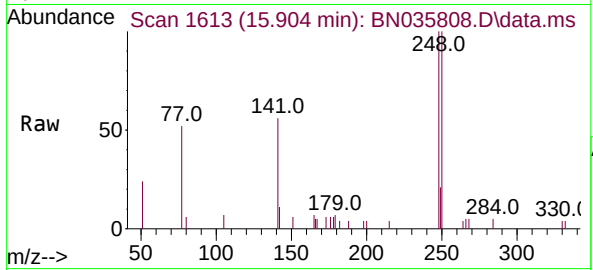
Tgt Ion:198 Resp: 260
Ion Ratio Lower Upper
198 100
51 124.8 46.5 69.7#
105 93.2 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.349 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

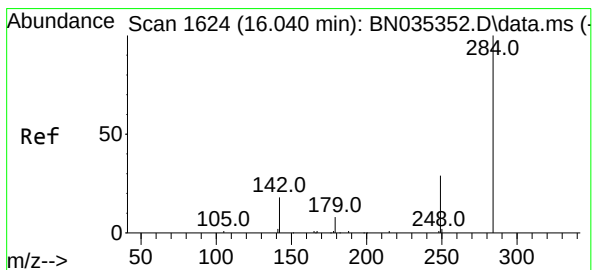
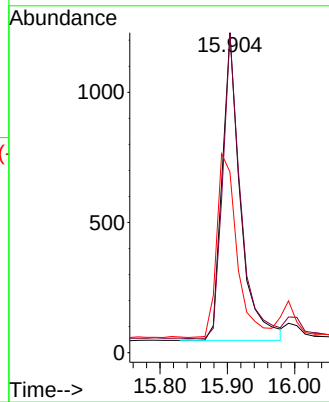
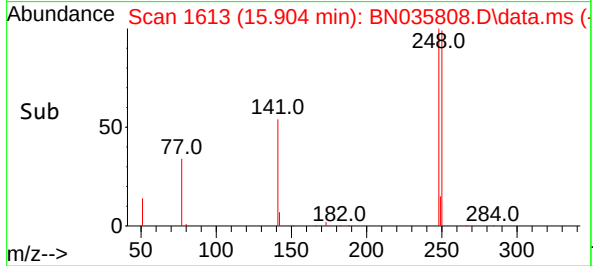
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:248 Resp: 2229
Ion Ratio Lower Upper
248 100
250 99.8 80.6 120.8
141 56.5 31.5 47.3

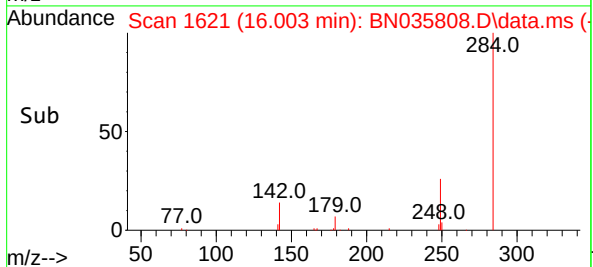
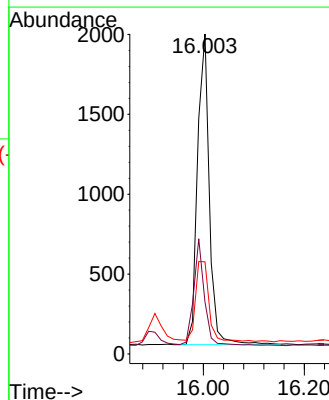
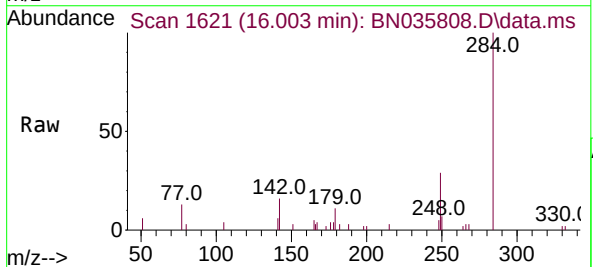
Manual Integrations
APPROVED

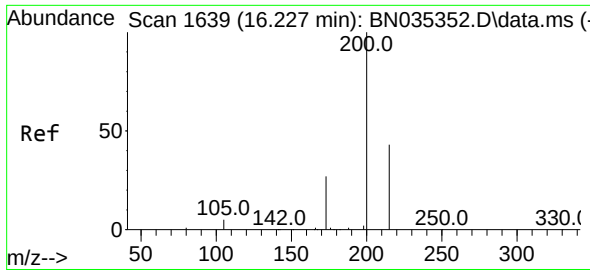
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:284 Resp: 3165
Ion Ratio Lower Upper
284 100
142 31.6 26.7 40.1
249 30.2 24.6 36.8





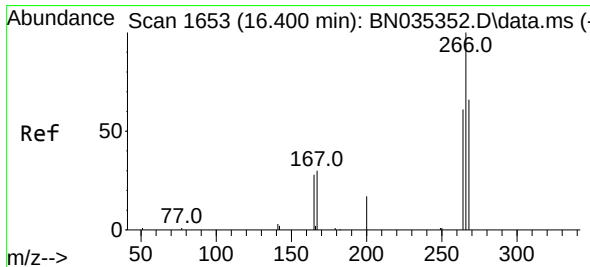
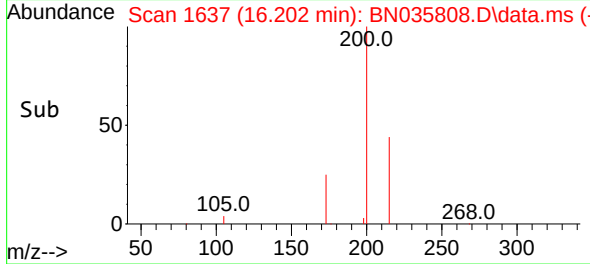
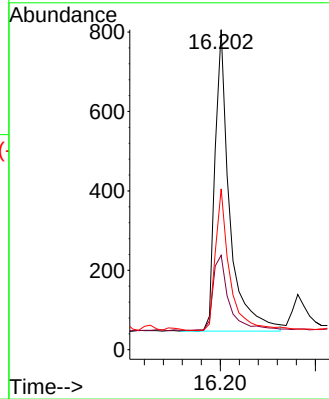
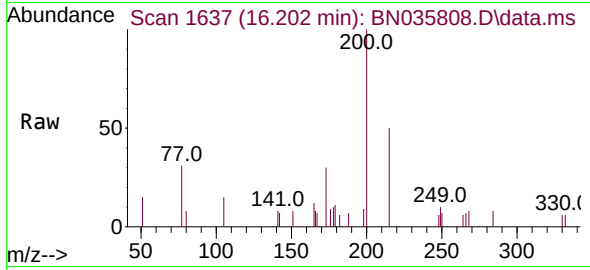
#23
Atrazine
Concen: 0.356 ng
RT: 16.202 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Tgt Ion:200 Resp: 1619
Ion Ratio Lower Upper
200 100
173 29.5 24.1 36.1
215 50.2 36.9 55.3

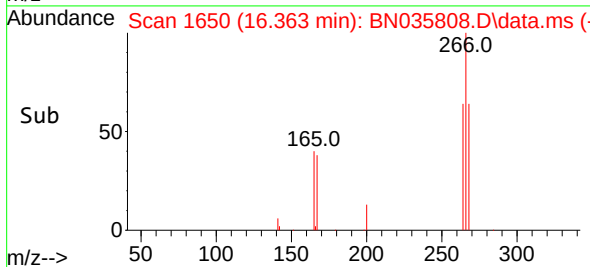
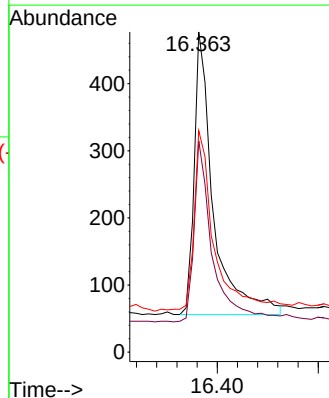
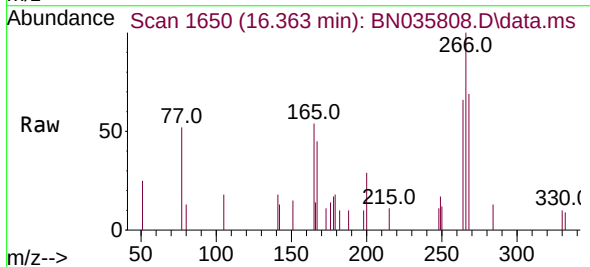
Manual Integrations
APPROVED

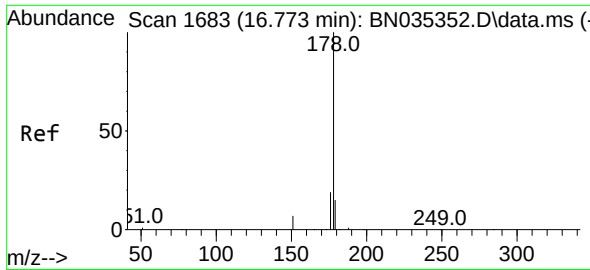
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.341 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

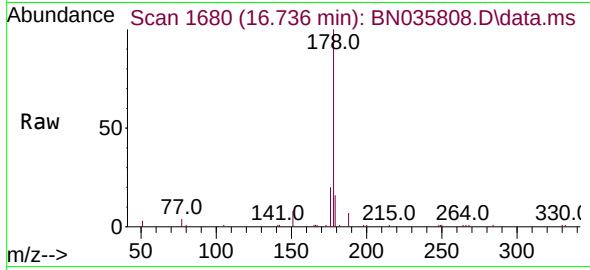
Tgt Ion:266 Resp: 1112
Ion Ratio Lower Upper
266 100
264 62.4 42.3 63.5
268 68.0 43.3 64.9#





#25
Phenanthrene
Concen: 0.360 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

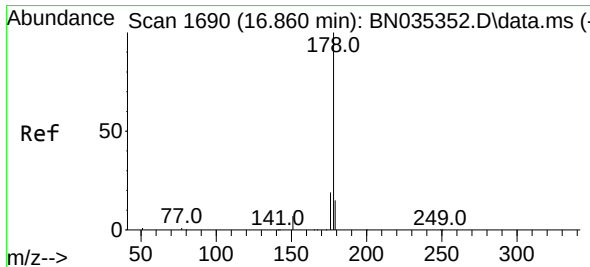
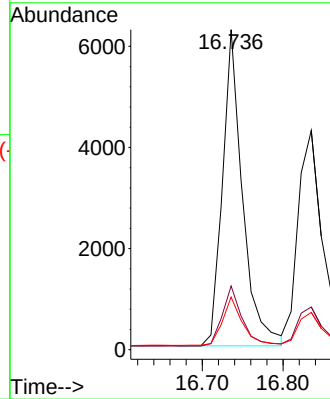
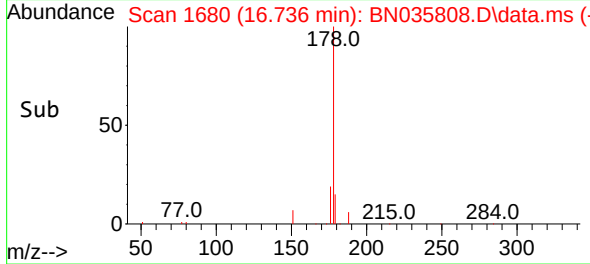
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:178 Resp: 10790
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.2 12.3 18.5

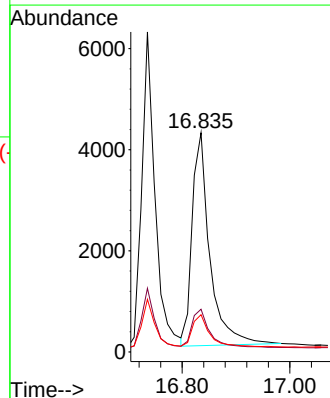
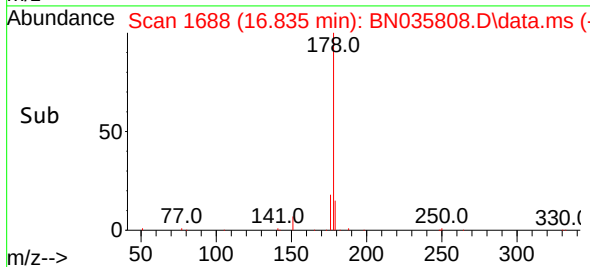
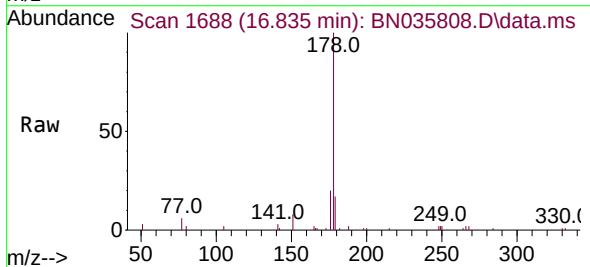
Manual Integrations
APPROVED

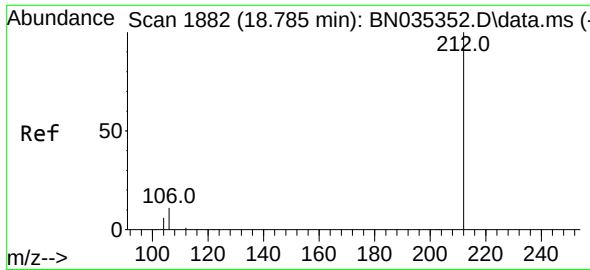
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.355 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

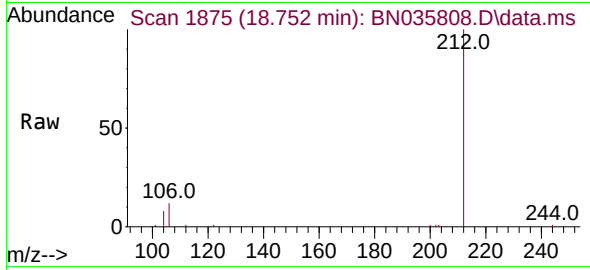
Tgt Ion:178 Resp: 9628
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.4 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 18.752 min Scan# 1134
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

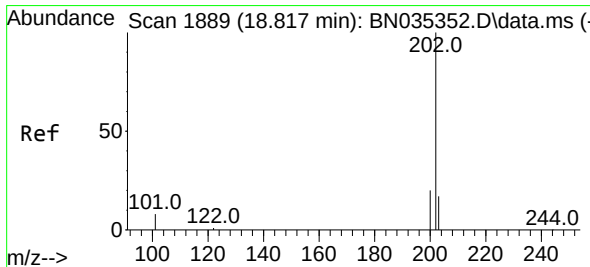
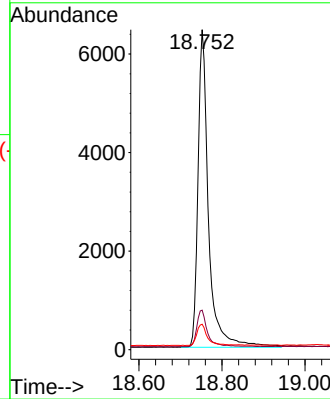
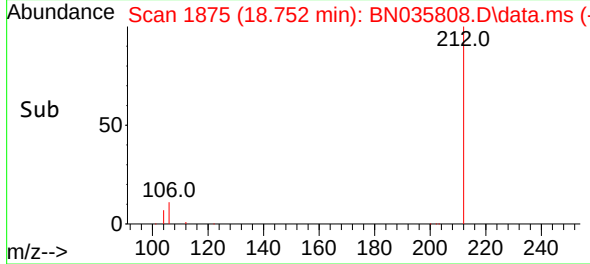
Instrument :
BNA_N
ClientSampleId :
PB165667BS



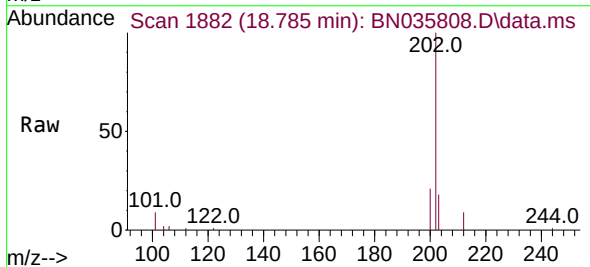
Tgt Ion:212 Resp: 1134
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9

Manual Integrations
APPROVED

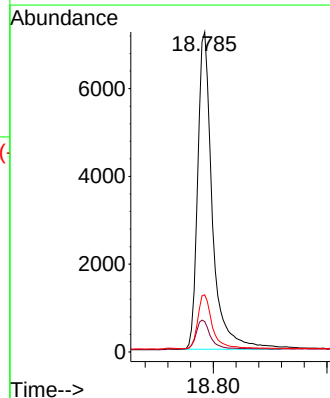
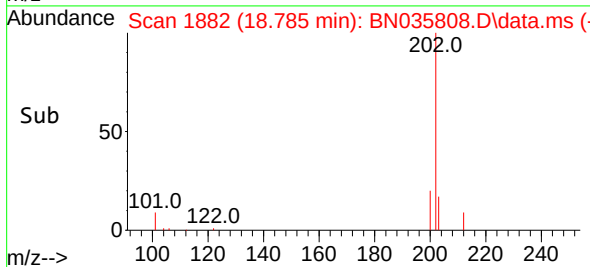
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

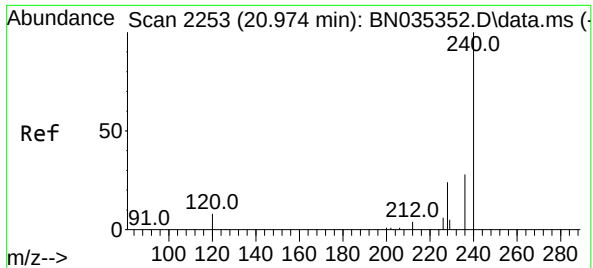


#28
Fluoranthene
Concen: 0.320 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34



Tgt Ion:202 Resp: 12957
Ion Ratio Lower Upper
202 100
101 9.3 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

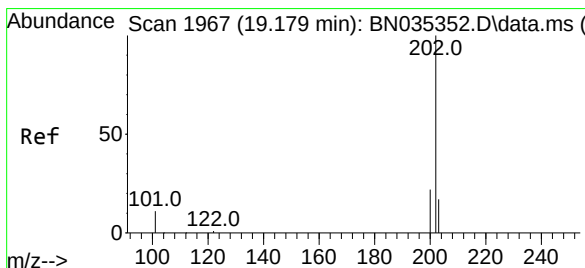
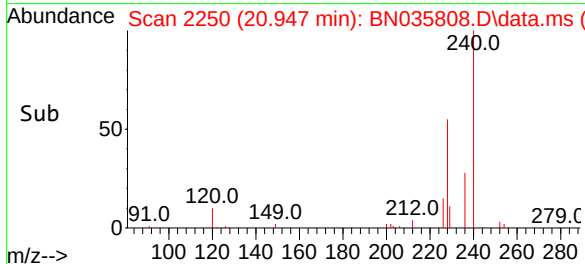
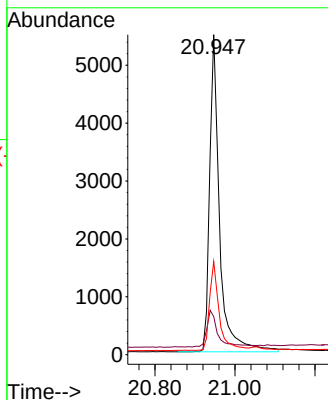
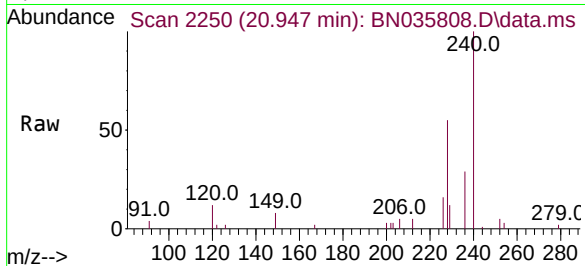
PB165667BS

Tgt Ion:240	Resp:	946
Ion Ratio	Lower	Upper
240	100	
120	11.9	7.9 11.9
236	29.1	22.9 34.3

Manual Integrations

APPROVED

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



#30

Pyrene

Concen: 0.390 ng

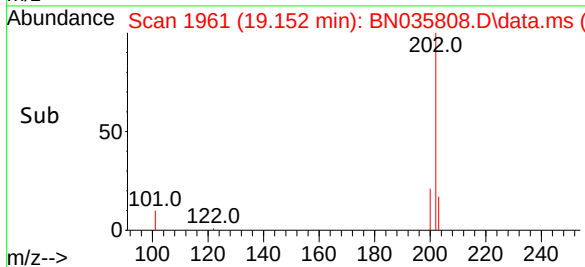
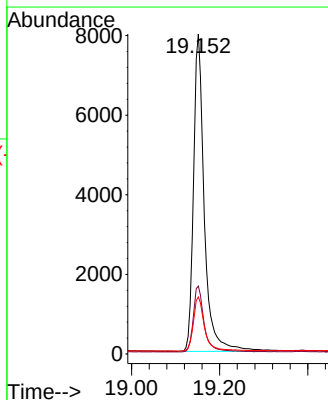
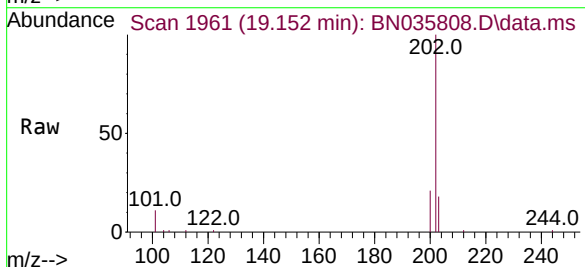
RT: 19.152 min Scan# 1961

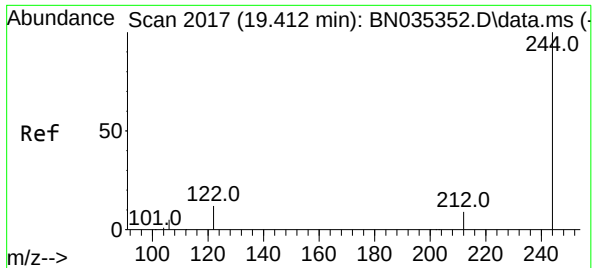
Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Tgt Ion:202	Resp:	13632
Ion Ratio	Lower	Upper
202	100	
200	20.9	17.0 25.4
203	17.6	14.3 21.5





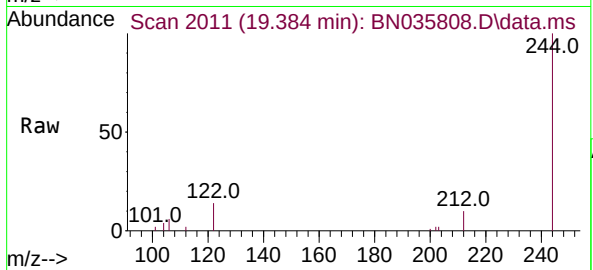
#31
Terphenyl-d14
Concen: 0.431 ng
RT: 19.384 min Scan# 2011
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS

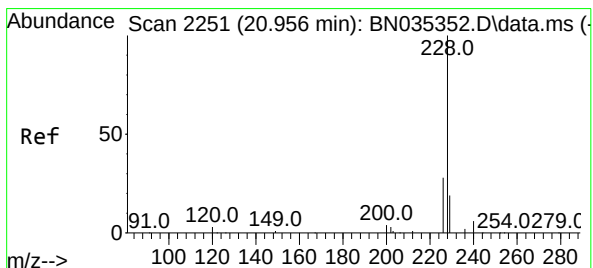
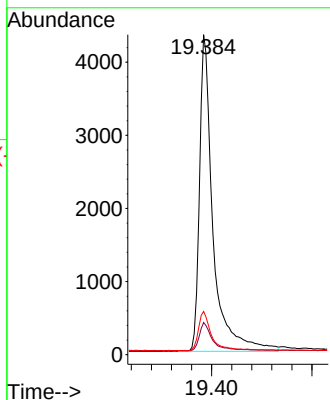
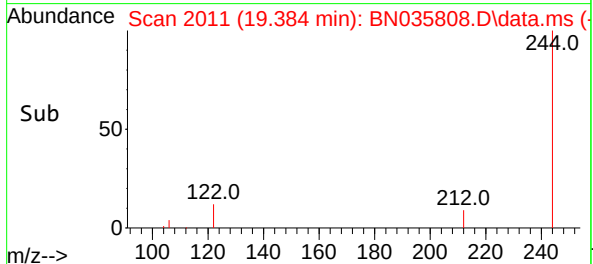


Tgt Ion:244 Resp: 8050
Ion Ratio Lower Upper
244 100
212 10.1 8.1 12.1
122 13.5 10.3 15.5

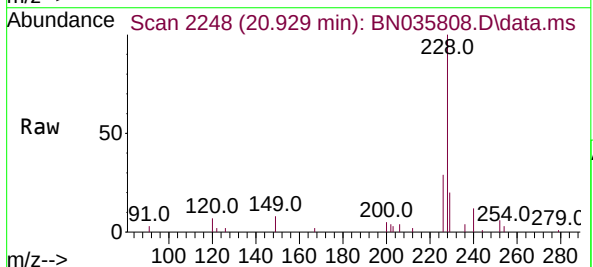
Manual Integrations

APPROVED

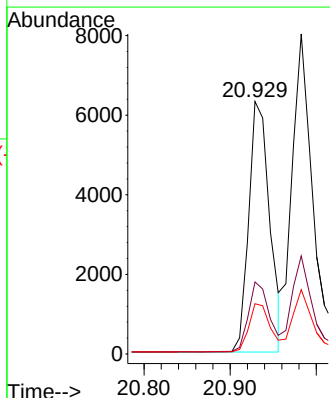
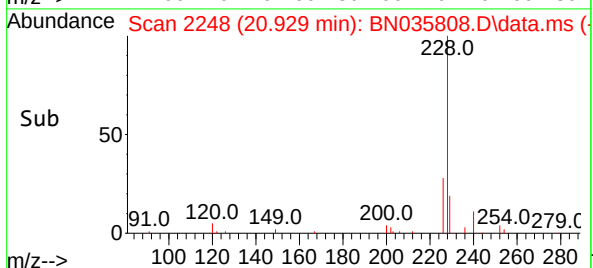
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

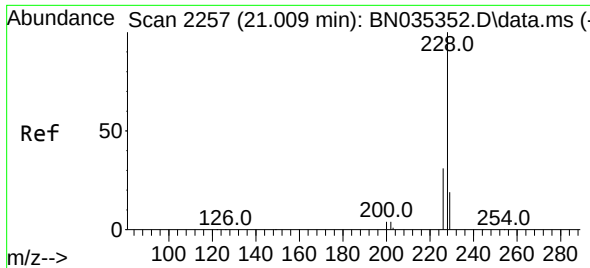


#32
Benzo(a)anthracene
Concen: 0.321 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34



Tgt Ion:228 Resp: 10627
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.415 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS

Tgt Ion:228 Resp: 1418

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

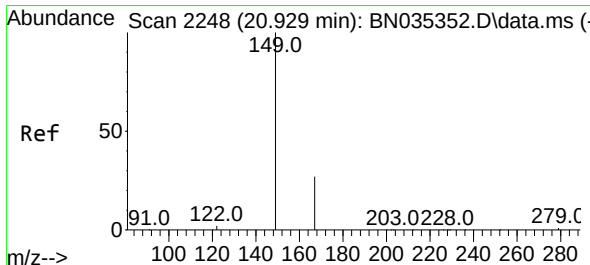
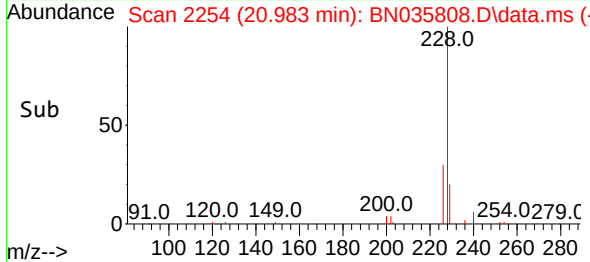
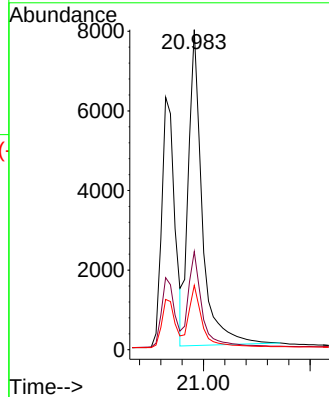
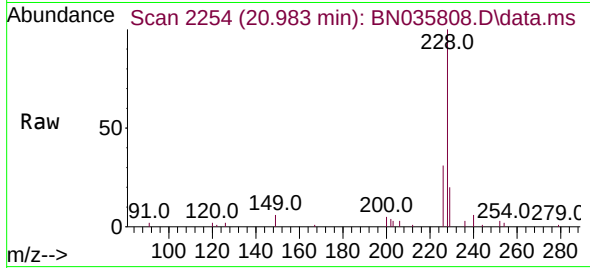
229 20.1 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.355 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

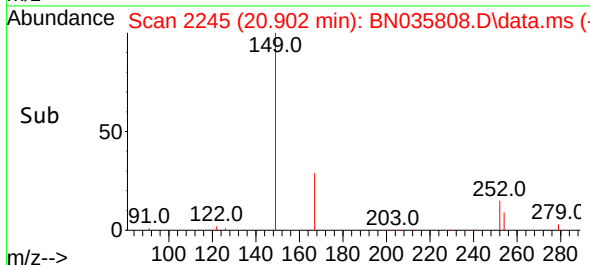
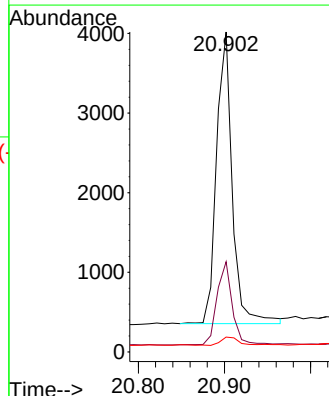
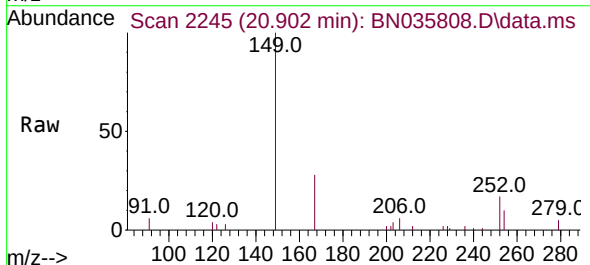
Tgt Ion:149 Resp: 4640

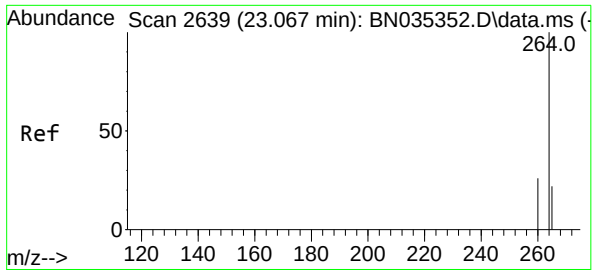
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

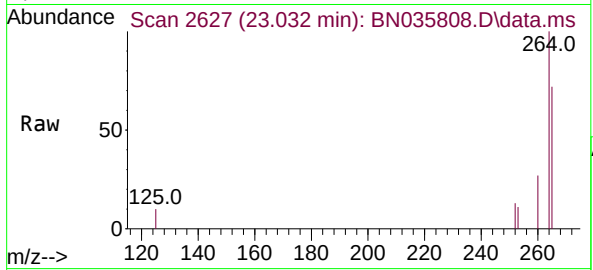
279 3.2 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

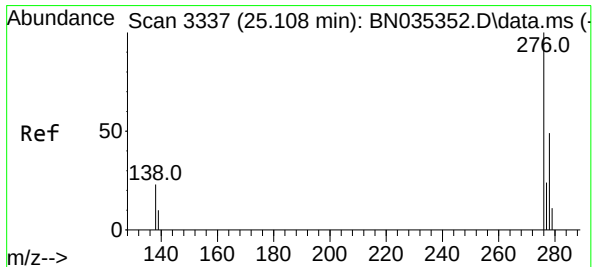
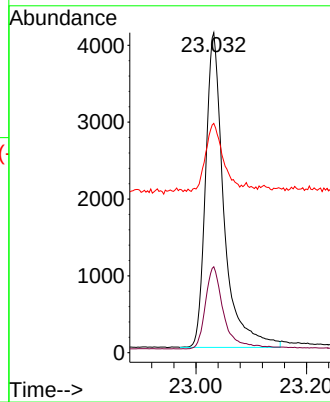
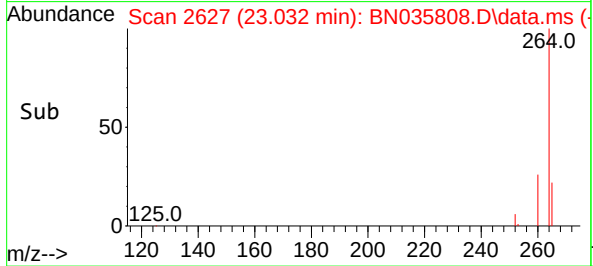
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:264 Resp: 9435
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 71.7 40.2 60.4

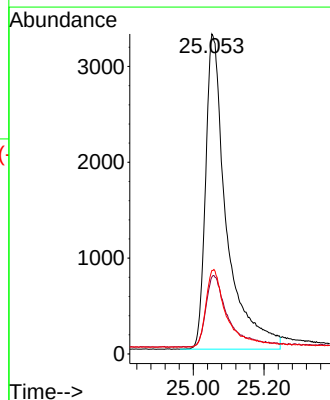
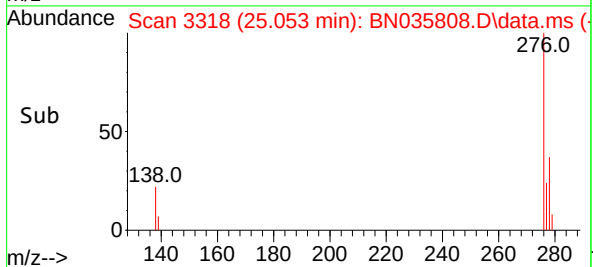
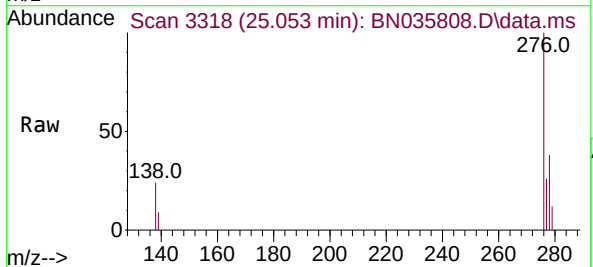
Manual Integrations
APPROVED

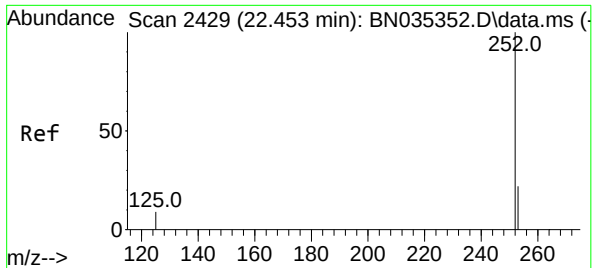
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.053 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

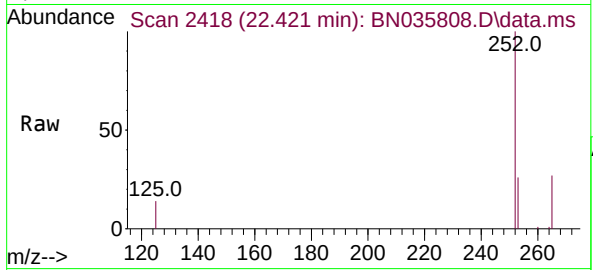
Tgt Ion:276 Resp: 13497
Ion Ratio Lower Upper
276 100
138 22.1 19.4 29.0
277 24.4 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.657 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

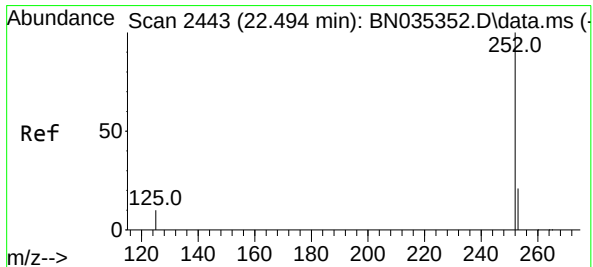
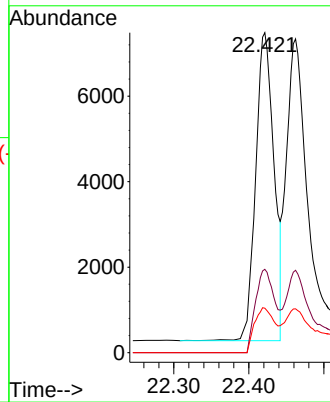
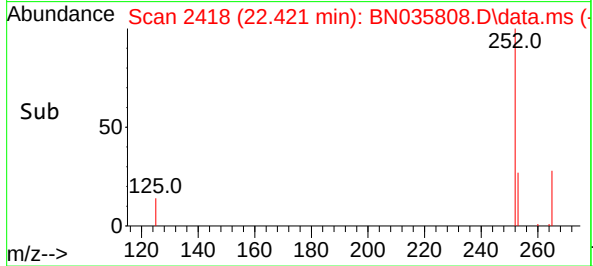
Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:252 Resp: 22672
Ion Ratio Lower Upper
252 100
253 26.1 19.6 29.4
125 13.9 9.6 14.4

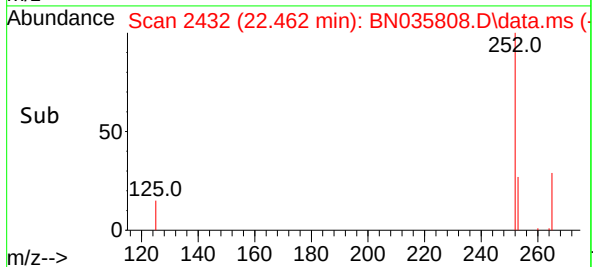
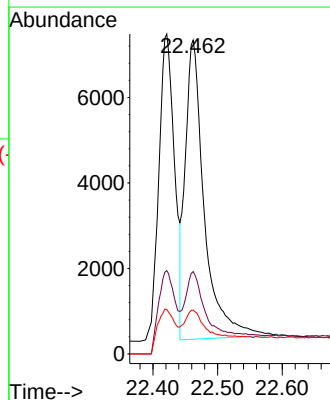
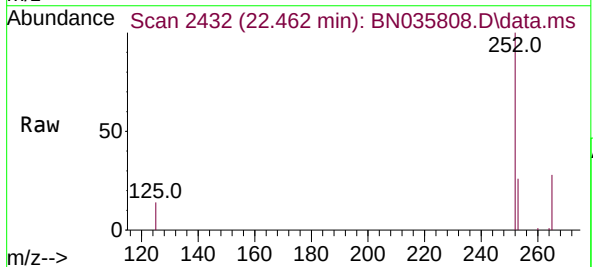
Manual Integrations
APPROVED

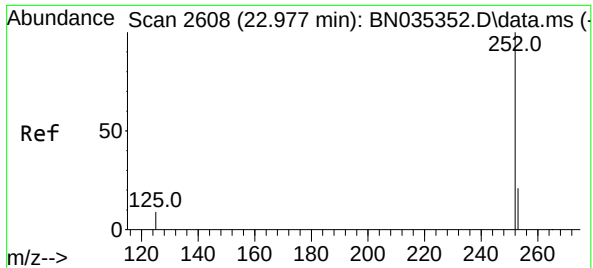
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:252 Resp: 14330
Ion Ratio Lower Upper
252 100
253 26.2 19.5 29.3
125 14.0 10.2 15.4





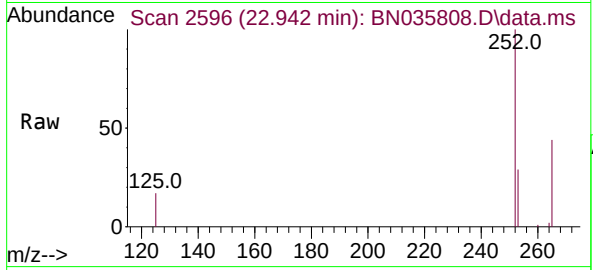
#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 22.942 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS



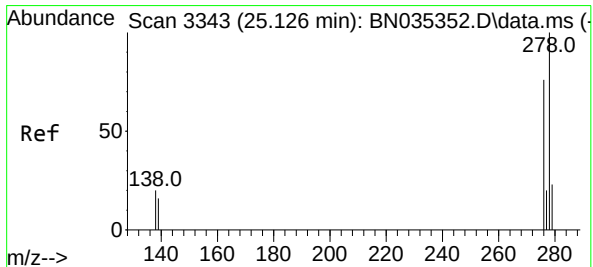
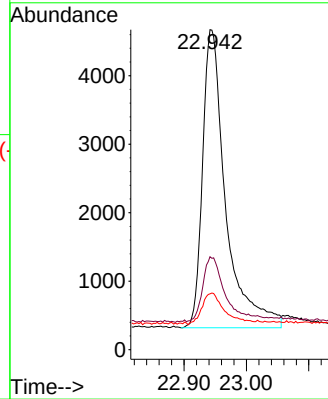
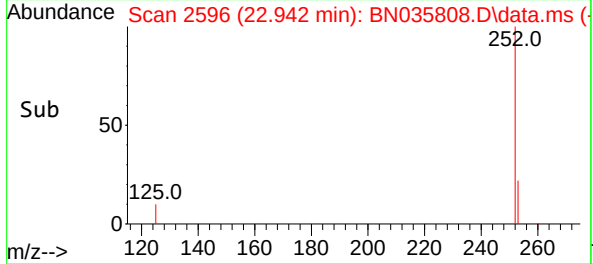
Tgt Ion:252 Resp: 1122
Ion Ratio Lower Upper
252 100
253 29.1 20.2 30.4
125 17.5 10.9 16.3

Manual Integrations

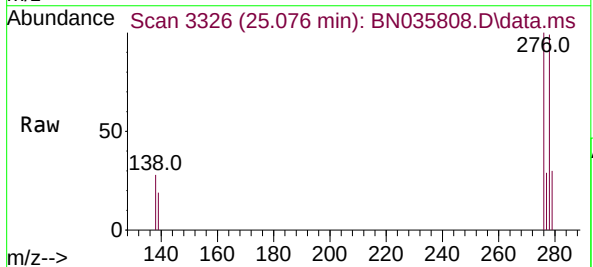
APPROVED

Reviewed By :Yogesh Patel 12/24/2024

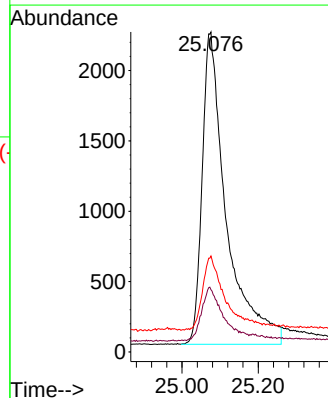
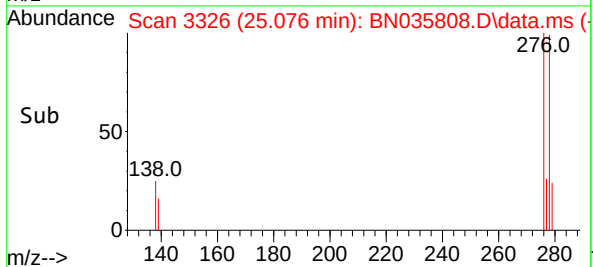
Supervised By :mohammad ahmed 12/26/2024

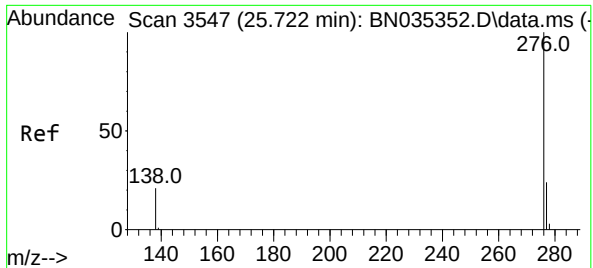


#40
Dibenzo(a,h)anthracene
Concen: 0.336 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34



Tgt Ion:278 Resp: 9782
Ion Ratio Lower Upper
278 100
139 19.5 14.2 21.4
279 30.0 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.380 ng

RT: 25.664 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN035808.D

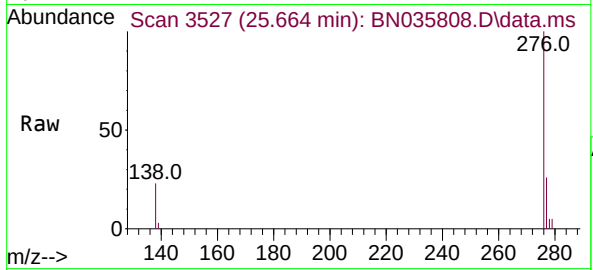
Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS



Tgt Ion:276 Resp: 11572

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

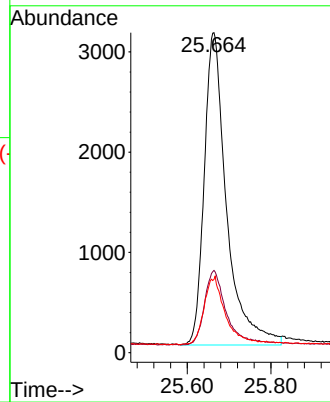
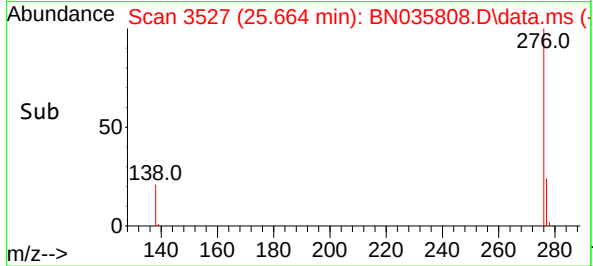
138 22.9 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/12/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	BPOW6-11-20241212MS	SDG No.:	P5282
Lab Sample ID:	P5280-04MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035735.D	1	12/16/24 11:30	12/20/24 11:05	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.53		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3050	7.271				
1146-65-2	Naphthalene-d8	8360	10.009				
15067-26-2	Acenaphthene-d10	5200	13.924				
1517-22-2	Phenanthrene-d10	10500	16.698				
1719-03-5	Chrysene-d12	9280	20.947				
1520-96-3	Perylene-d12	9470	23.038				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035735.D
 Acq On : 20 Dec 2024 11:05
 Operator : RC/JU
 Sample : P5280-04MS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-11-20241212MS

Manual Integrations APPROVED

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

Quant Time: Dec 20 11:38:22 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	3051	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8358	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5197	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10502	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9278	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9467	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	857	0.112	ng	0.00
5) Phenol-d6	6.484	99	610	0.066	ng	0.00
8) Nitrobenzene-d5	8.408	82	1791m	0.351	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4131	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	679	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	5479	0.279	ng	0.00
27) Fluoranthene-d10	18.757	212	11313	0.380	ng	0.00
31) Terphenyl-d14	19.388	244	8932	0.488	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	1540	0.528	ng	# 84
3) n-Nitrosodimethylamine	3.270	42	330	0.136	ng	# 78
6) bis(2-Chloroethyl)ether	6.723	93	2206	0.286	ng	98
9) Naphthalene	10.062	128	6003	0.272	ng	99
10) Hexachlorobutadiene	10.351	225	846	0.166	ng	# 98
12) 2-Methylnaphthalene	11.691	142	3950	0.250	ng	99
16) Acenaphthylene	13.636	152	6604	0.303	ng	100
17) Acenaphthene	13.988	154	4230	0.292	ng	98
18) Fluorene	14.993	166	5719	0.276	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	103	0.100	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2167	0.353	ng	# 84
22) Hexachlorobenzene	16.003	284	2445	0.339	ng	96
23) Atrazine	16.202	200	1259	0.288	ng	94
24) Pentachlorophenol	16.375	266	273	0.087	ng	# 79
25) Phenanthrene	16.735	178	10260	0.356	ng	100
26) Anthracene	16.835	178	8925	0.342	ng	99
28) Fluoranthene	18.789	202	12930	0.332	ng	99
30) Pyrene	19.156	202	13495	0.394	ng	99
32) Benzo(a)anthracene	20.938	228	11302	0.348	ng	99
33) Chrysene	20.982	228	12637	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6113	0.477	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.061	276	12412	0.335	ng	97
37) Benzo(b)fluoranthene	22.427	252	18573	0.536	ng	95
38) Benzo(k)fluoranthene	22.468	252	12887m	0.378	ng	
39) Benzo(a)pyrene	22.950	252	9310	0.326	ng	# 90
40) Dibenzo(a,h)anthracene	25.082	278	9663	0.331	ng	95
41) Benzo(g,h,i)perylene	25.675	276	9301	0.305	ng	99

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

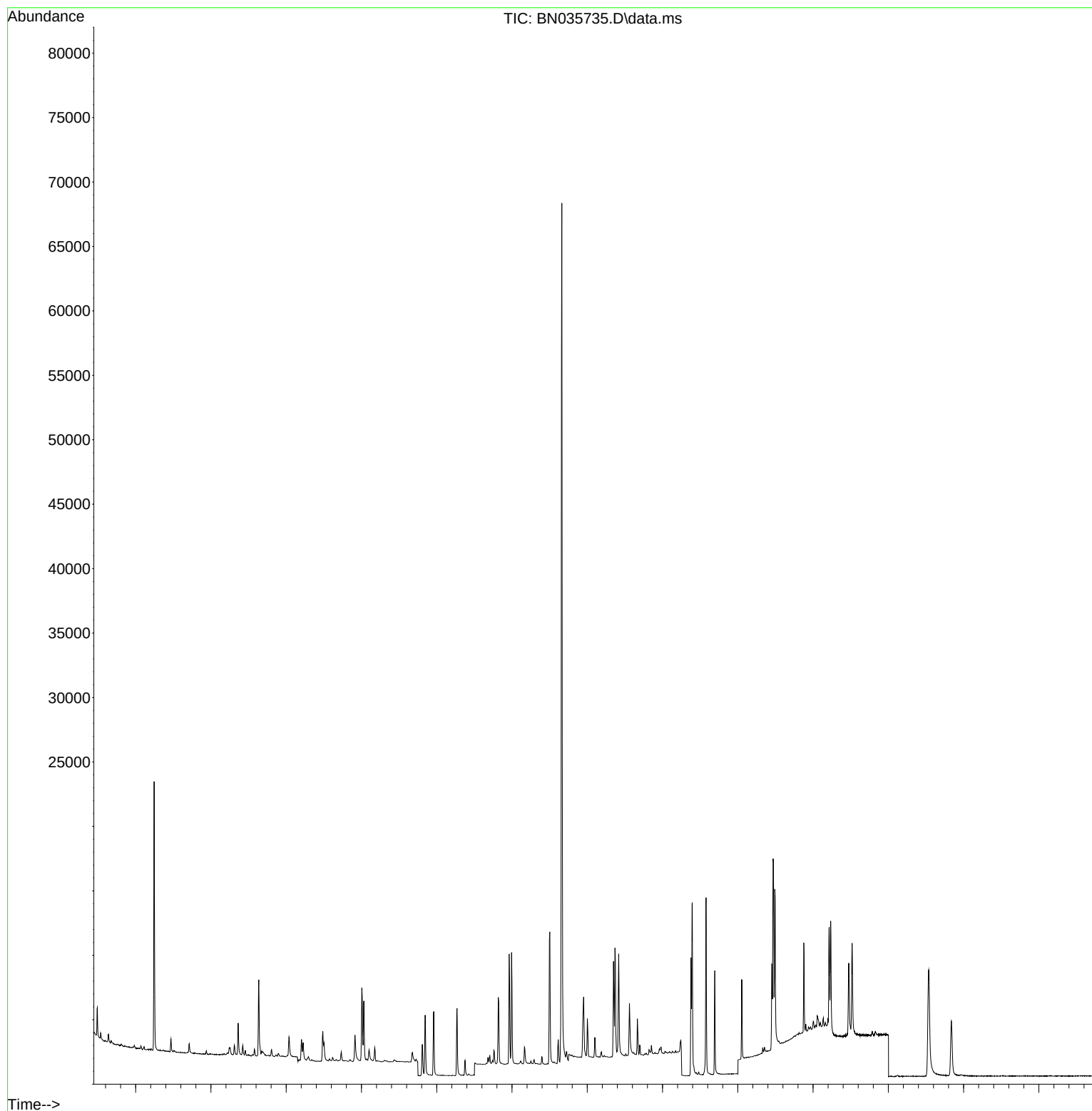
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035735.D
Acq On : 20 Dec 2024 11:05
Operator : RC/JU
Sample : P5280-04MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

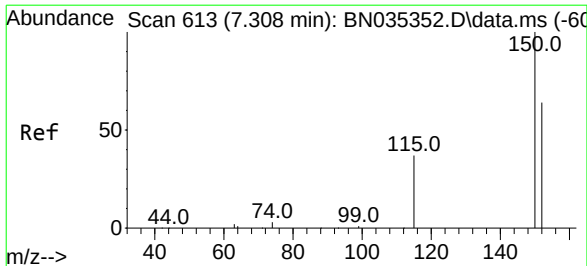
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

Manual Integrations
APPROVED

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

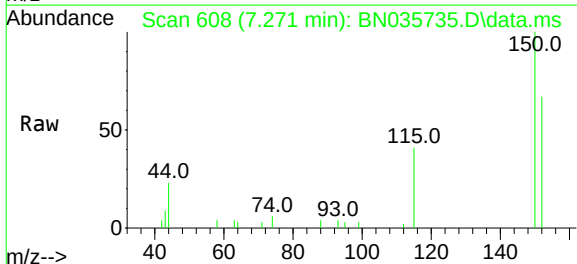
Quant Time: Dec 20 11:38:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 60
Delta R.T. -0.001 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

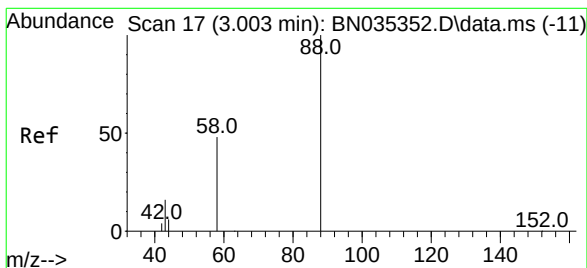
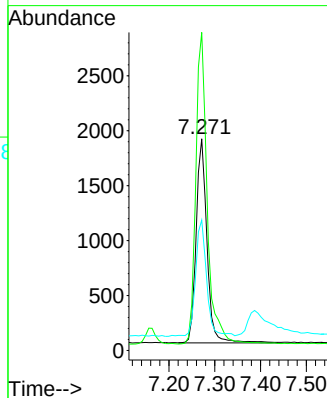
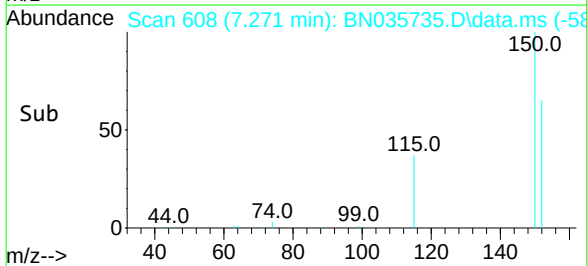
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS



Tgt Ion: 152 Resp: 3051
Ion Ratio Lower Upper
152 100
150 150.2 124.0 186.0
115 61.6 49.6 74.4

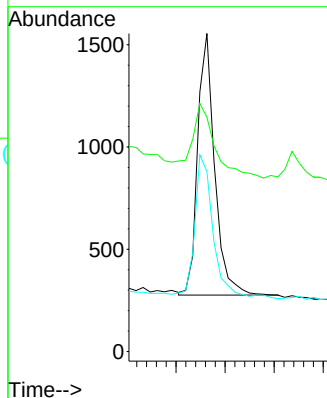
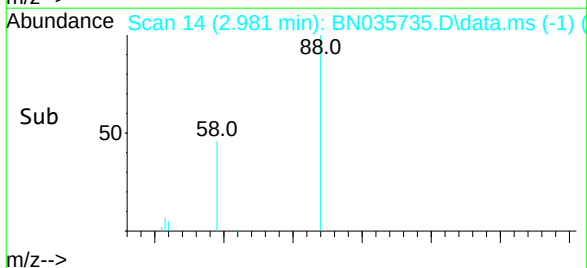
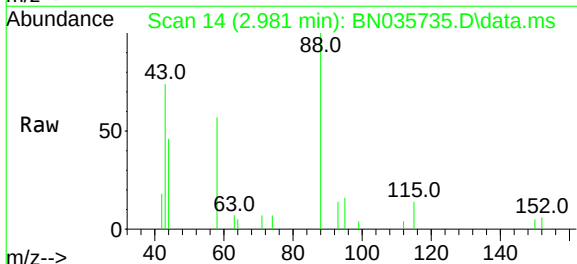
Manual Integrations
APPROVED

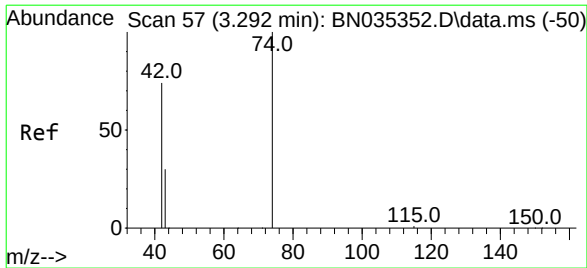
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#2
1,4-Dioxane
Concen: 0.528 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 88 Resp: 1540
Ion Ratio Lower Upper
88 100
43 40.1 17.2 25.8#
58 60.8 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.136 ng

RT: 3.270 min Scan# 54

Delta R.T. -0.007 min

Lab File: BN035735.D

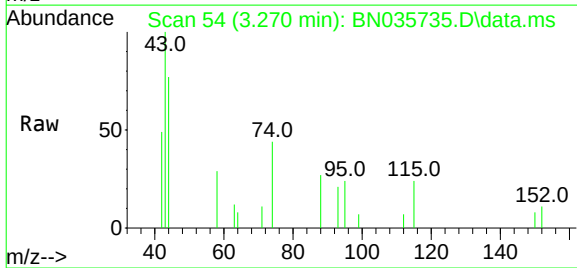
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion: 42 Resp: 330

Ion Ratio Lower Upper

42 100

74 184.5 124.9 187.3

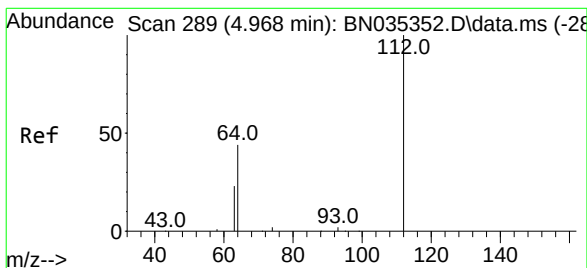
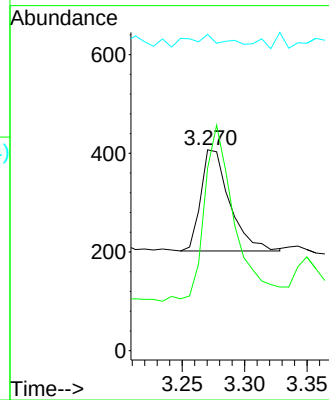
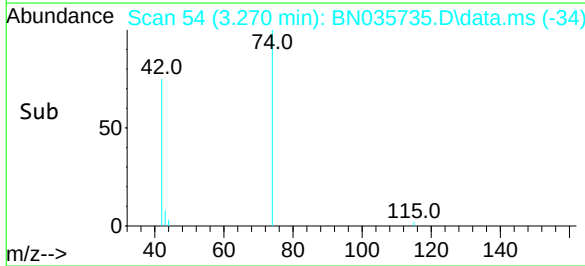
44 0.0 2.2 3.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#4

2-Fluorophenol

Concen: 0.112 ng

RT: 4.939 min Scan# 285

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

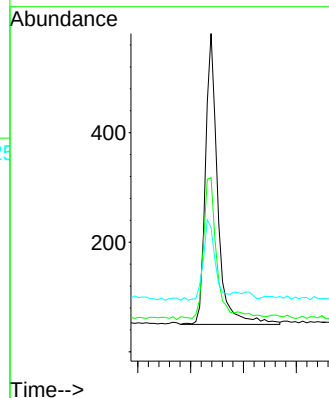
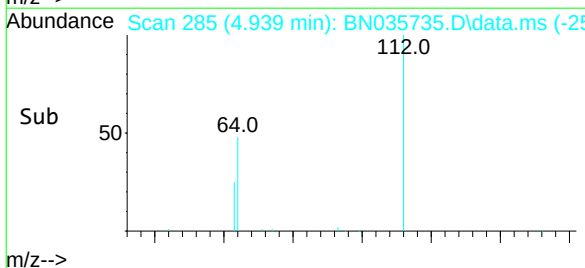
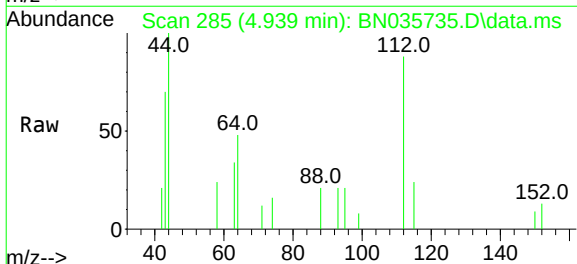
Tgt Ion:112 Resp: 857

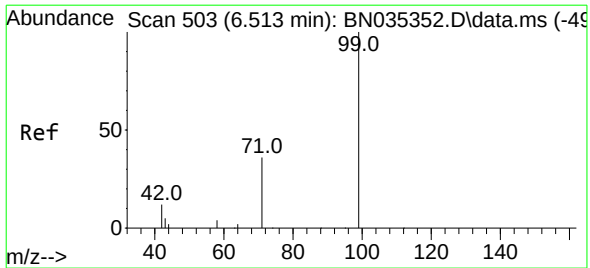
Ion Ratio Lower Upper

112 100

64 52.4 39.8 59.8

63 26.8 21.0 31.6





#5

Phenol-d6

Concen: 0.066 ng

RT: 6.484 min Scan# 49

Delta R.T. -0.007 min

Lab File: BN035735.D

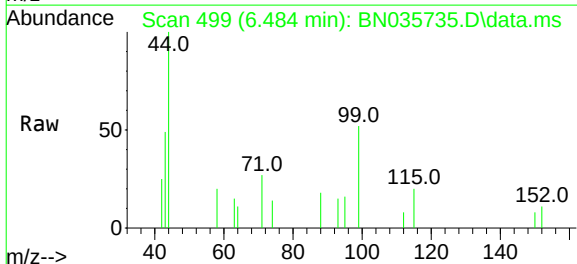
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

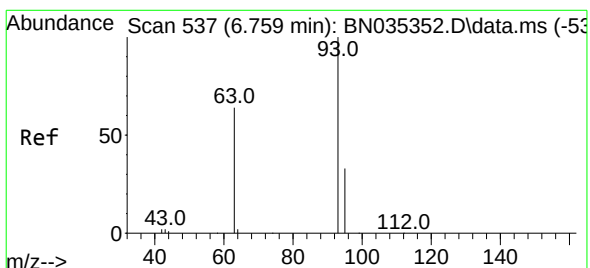
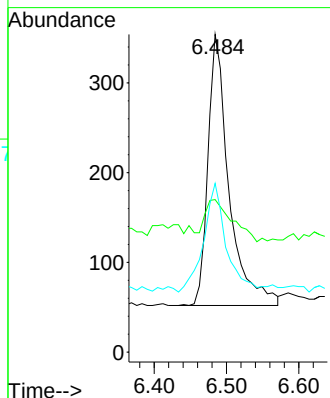
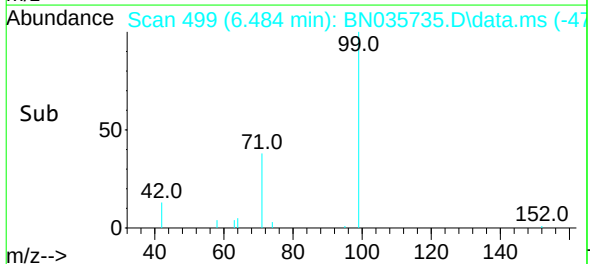
BPOW6-11-20241212MS



Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.2	11.4	17.2
71	43.3	29.3	43.9

Manual Integrations
APPROVED

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



#6

bis(2-Chloroethyl)ether

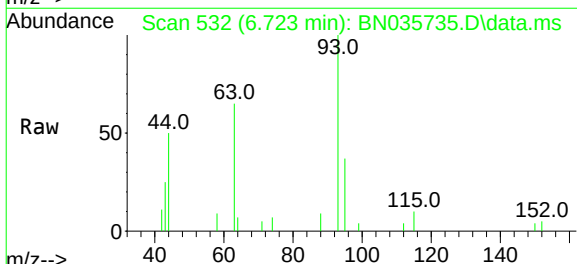
Concen: 0.286 ng

RT: 6.723 min Scan# 532

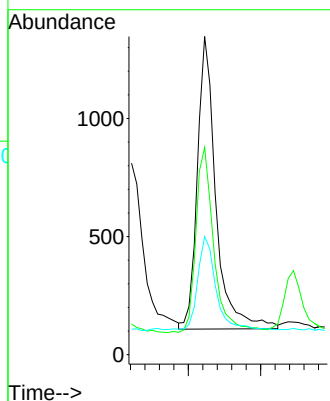
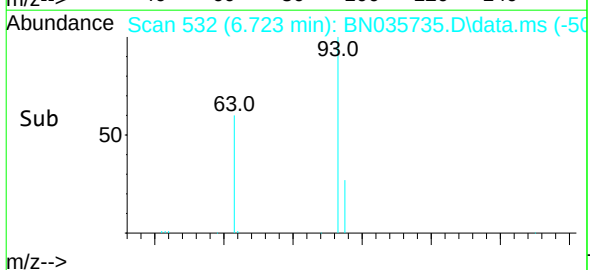
Delta R.T. -0.007 min

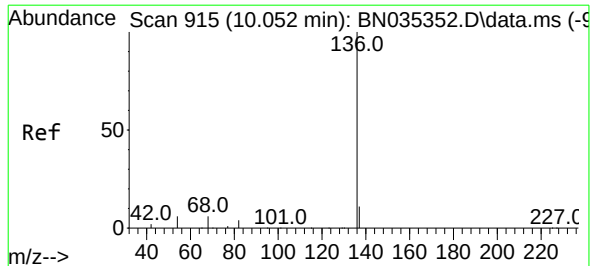
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



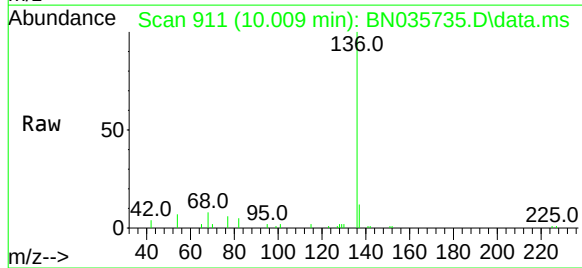
Tgt Ion	Ratio	Lower	Upper
93	100		
63	61.4	50.4	75.6
95	30.6	25.7	38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

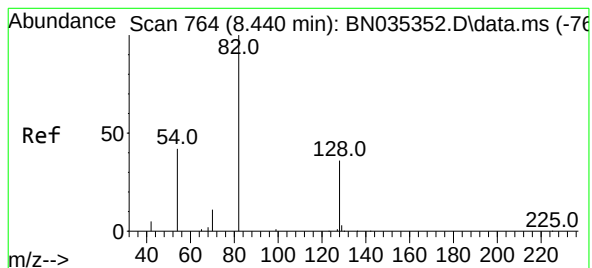
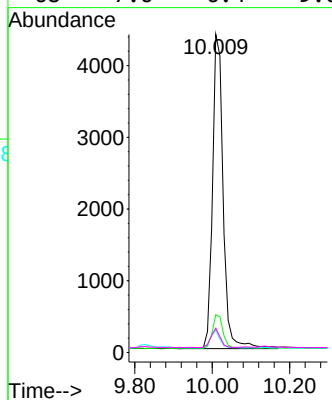
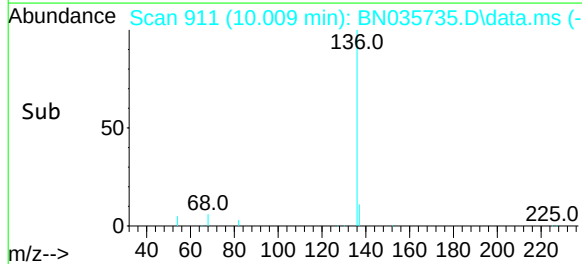
Instrument : BNA_N
ClientSampleId : BPOW6-11-20241212MS



Tgt Ion: 136 Resp: 8358
Ion Ratio Lower Upper
136 100
137 11.9 10.2 15.2
54 7.0 6.1 9.1
68 7.6 6.4 9.6

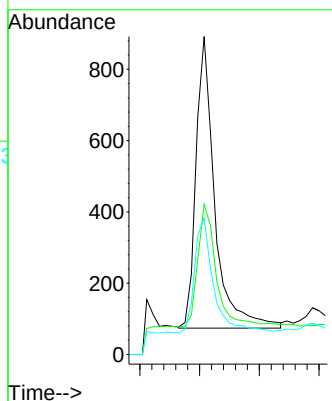
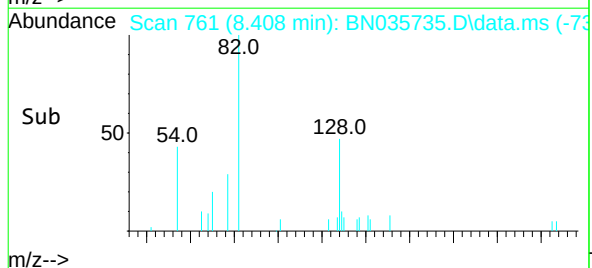
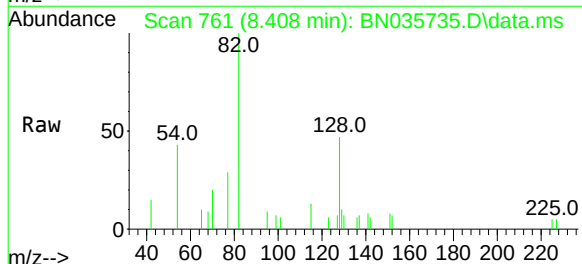
Manual Integrations
APPROVED

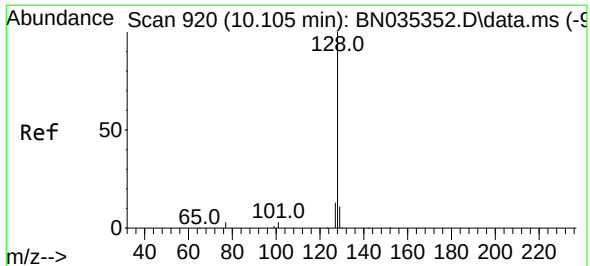
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#8
Nitrobenzene-d5
Concen: 0.351 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 82 Resp: 1791
Ion Ratio Lower Upper
82 100
128 47.2 33.4 50.0
54 42.8 36.7 55.1

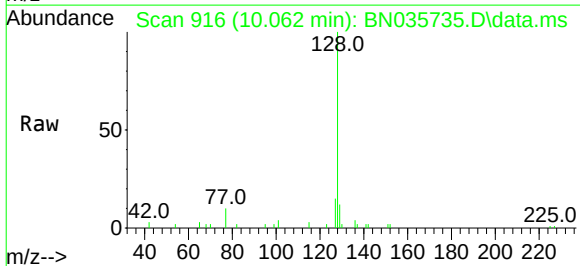




#9
Naphthalene

Concen: 0.272 ng
RT: 10.062 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

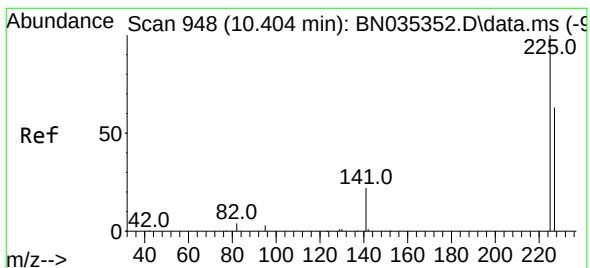
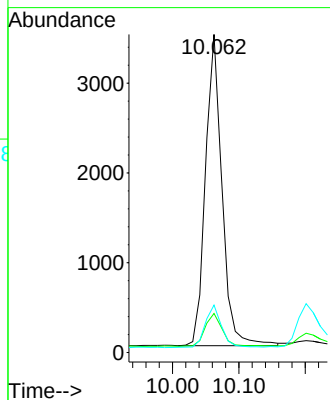
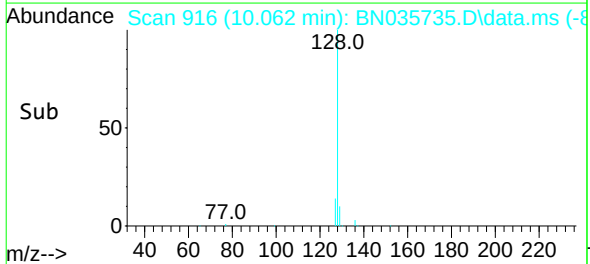
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS



Tgt Ion:128 Resp: 6003
Ion Ratio Lower Upper
128 100
129 12.3 9.8 14.6
127 14.9 11.4 17.2

Manual Integrations
APPROVED

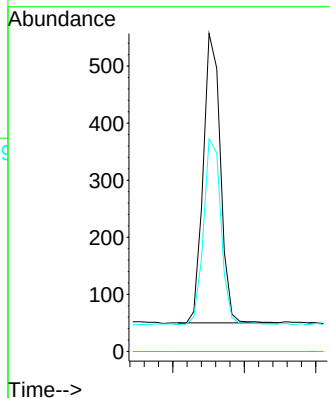
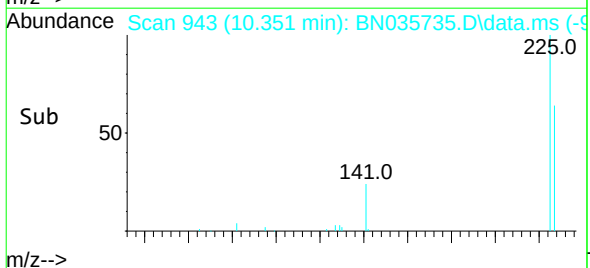
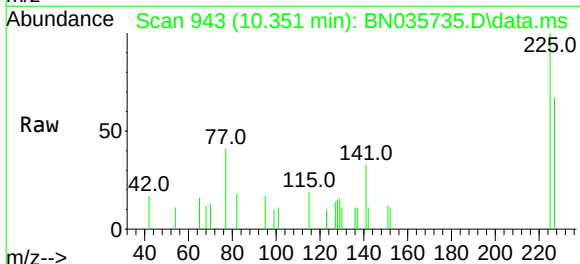
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

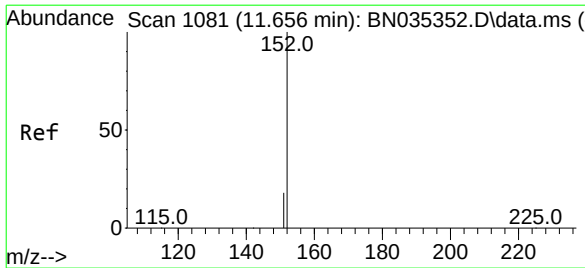


#10

Hexachlorobutadiene
Concen: 0.166 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

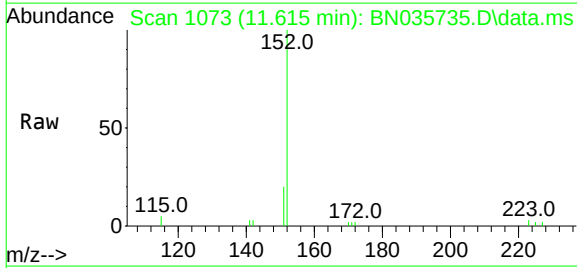
Tgt Ion:225 Resp: 846
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

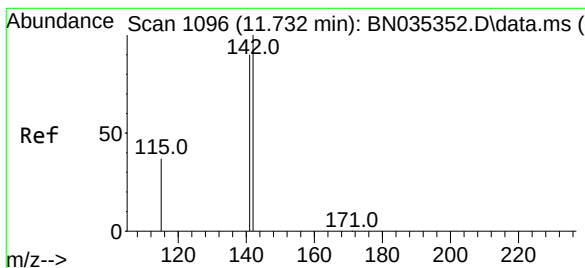
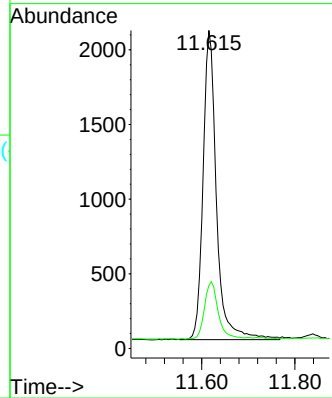
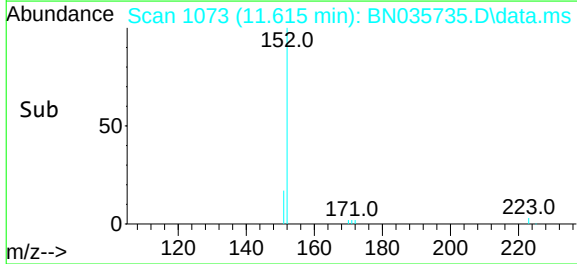
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS



Tgt Ion:152 Resp: 4131
Ion Ratio Lower Upper
152 100
151 19.0 16.6 25.0

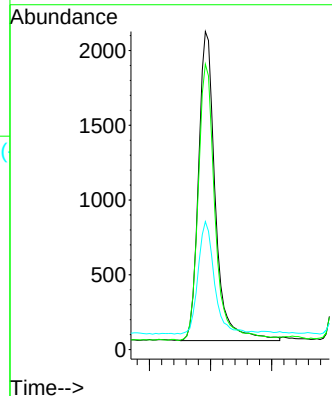
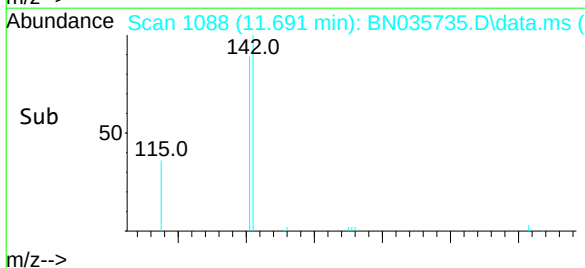
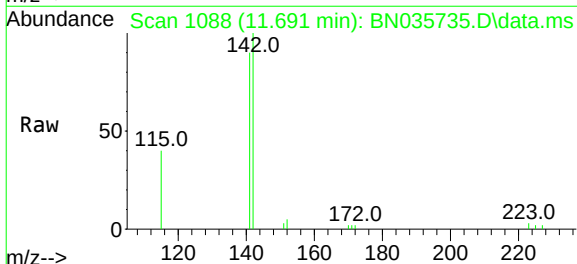
Manual Integrations
APPROVED

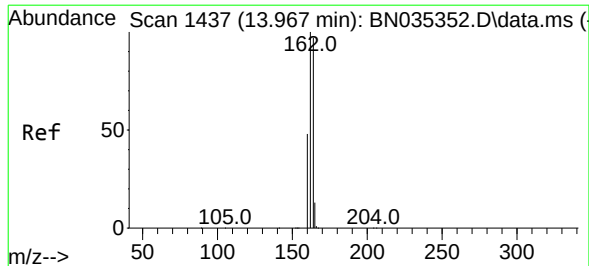
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#12
2-Methylnaphthalene
Concen: 0.250 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:142 Resp: 3950
Ion Ratio Lower Upper
142 100
141 89.8 72.2 108.4
115 40.2 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035735.D

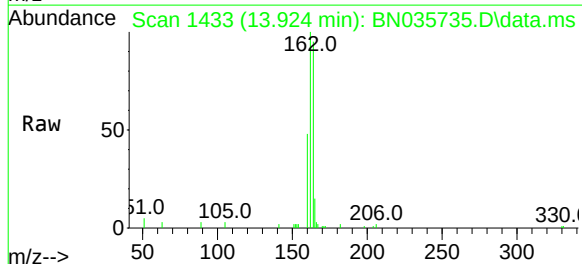
Acq: 20 Dec 2024 11:05

Instrument :

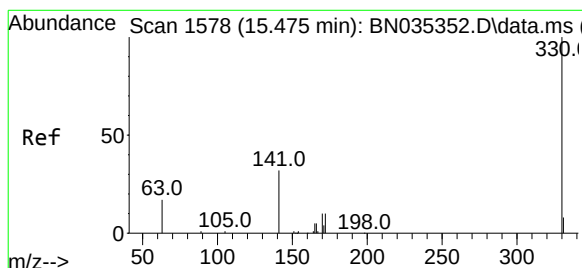
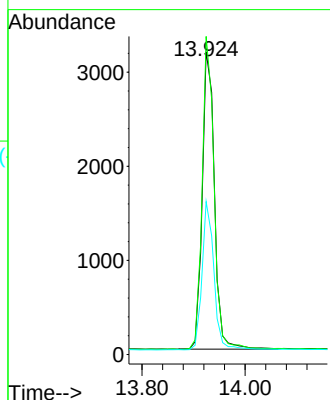
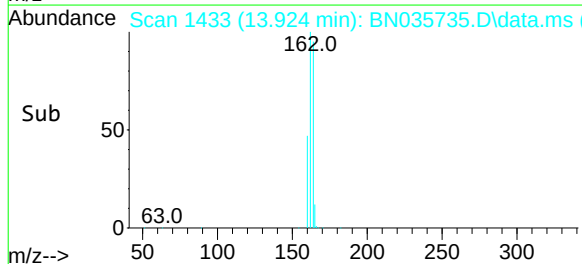
BNA_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:	164	Resp:	5197
Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	50.5	40.1	60.1

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

#14

2,4,6-Tribromophenol

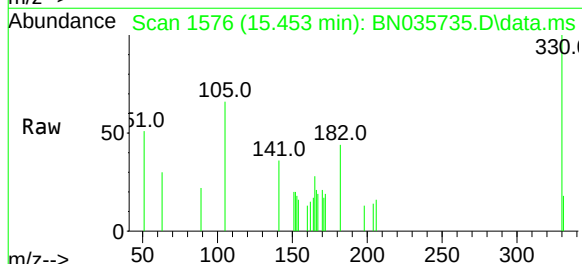
Concen: 0.184 ng

RT: 15.453 min Scan# 1576

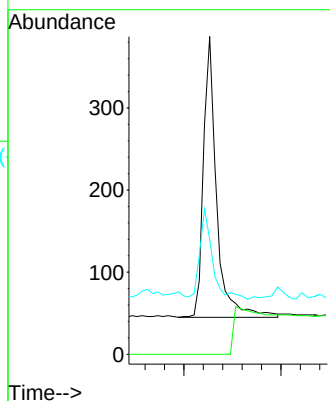
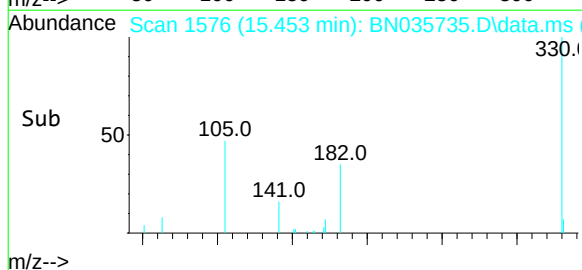
Delta R.T. -0.000 min

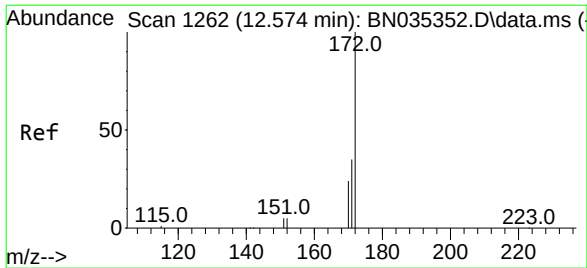
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



Tgt Ion:	330	Resp:	679
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.9	26.6	40.0





#15

2-Fluorobiphenyl

Concen: 0.279 ng

RT: 12.538 min Scan# 12

Delta R.T. -0.005 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

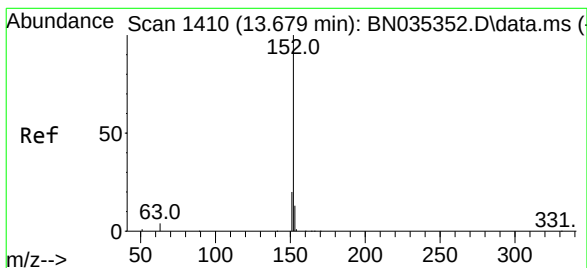
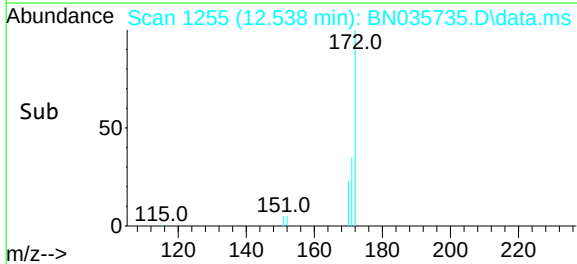
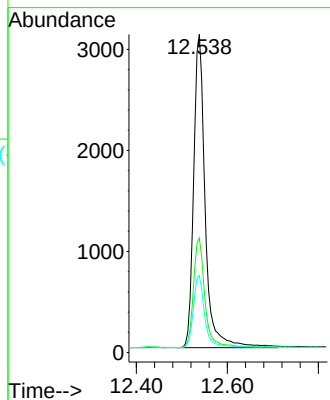
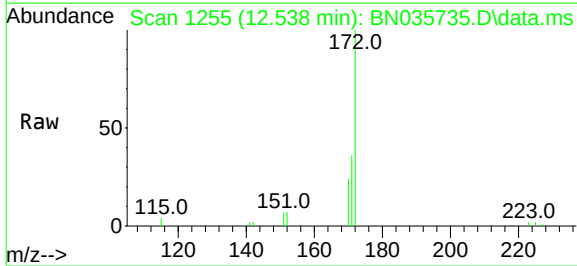
Tgt Ion:	172	Resp:	5479
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.2	19.8	29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#16

Acenaphthylene

Concen: 0.303 ng

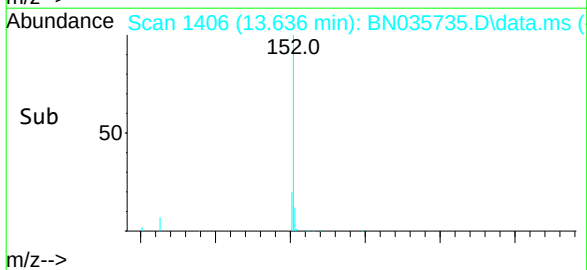
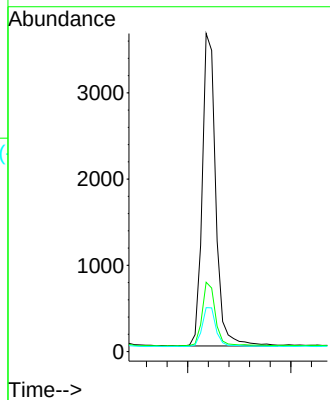
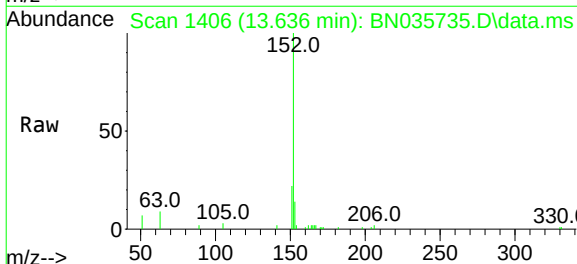
RT: 13.636 min Scan# 1406

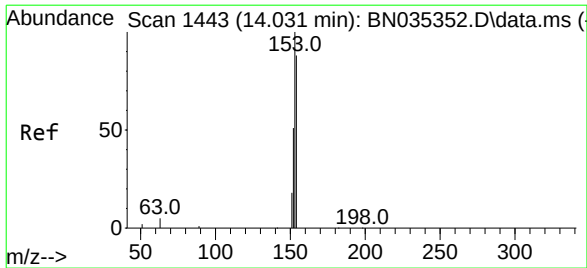
Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Tgt Ion:	152	Resp:	6604
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.1	10.4	15.6





#17

Acenaphthene

Concen: 0.292 ng

RT: 13.988 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

Tgt Ion:154 Resp: 4230

Ion Ratio Lower Upper

154 100

153 116.1 92.6 139.0

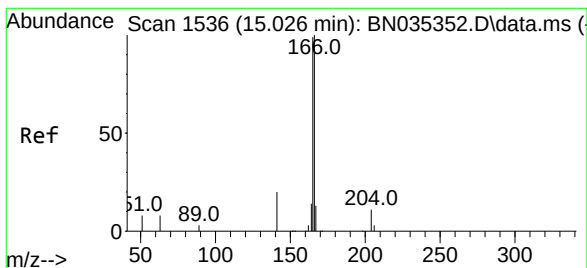
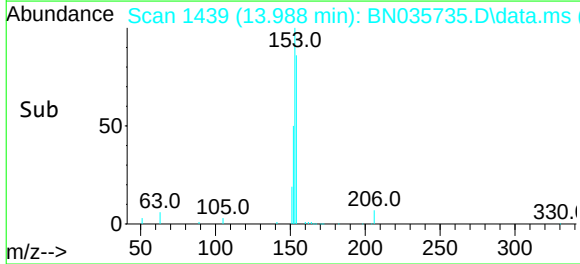
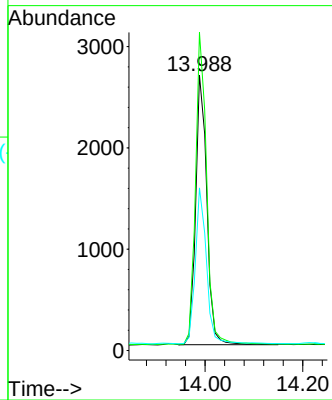
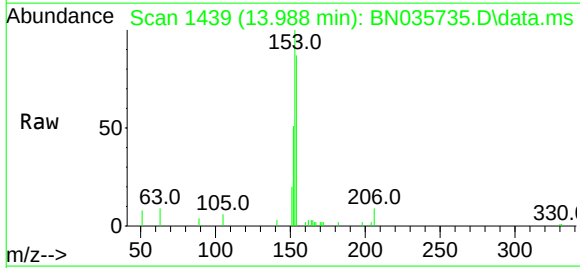
152 57.3 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#18

Fluorene

Concen: 0.276 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

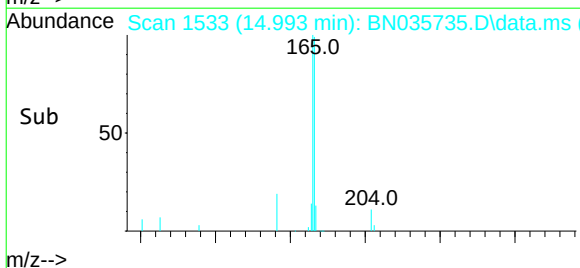
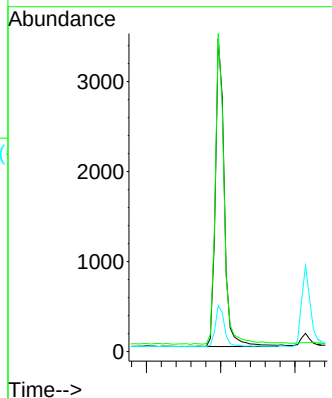
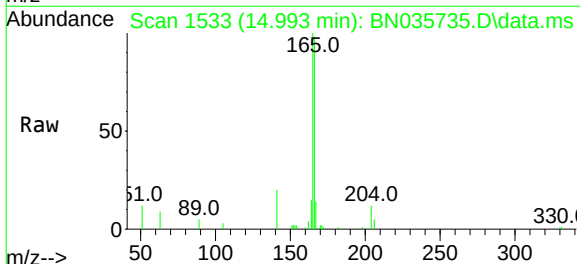
Tgt Ion:166 Resp: 5719

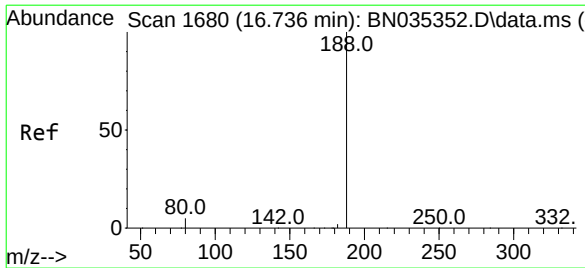
Ion Ratio Lower Upper

166 100

165 99.7 79.7 119.5

167 13.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 16

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

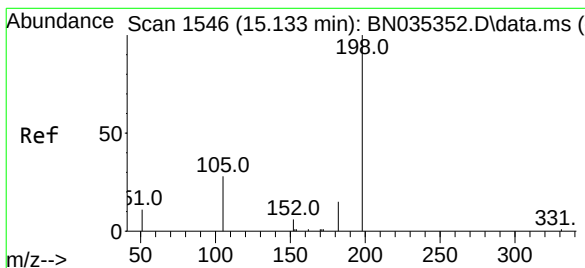
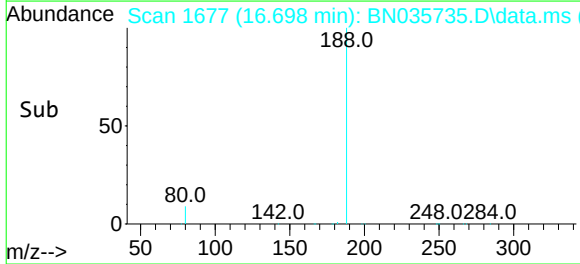
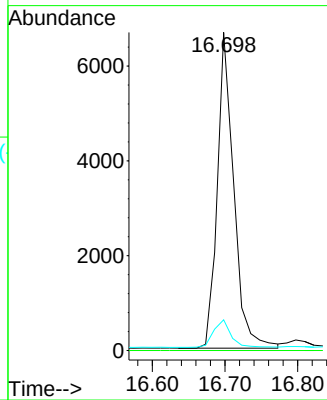
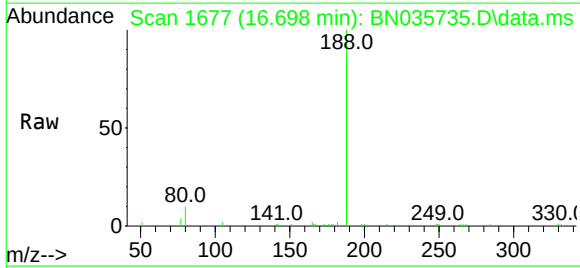
ClientSampleId :

BPOW6-11-20241212MS

Tgt Ion:	188	Resp:	10502
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	4.6	6.8#

Manual Integrations
APPROVED

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



#20

4,6-Dinitro-2-methylphenol

Concen: 0.100 ng

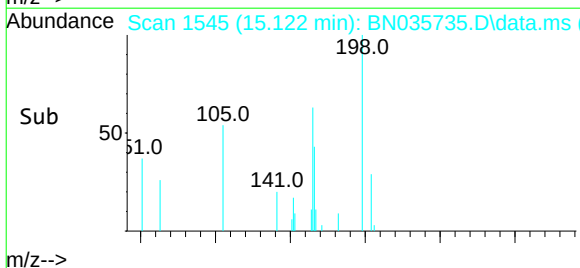
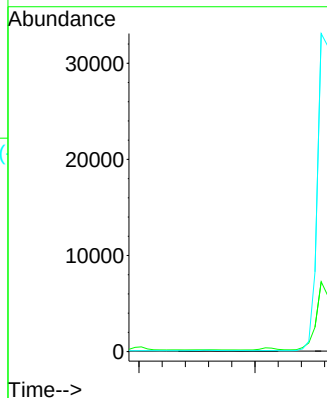
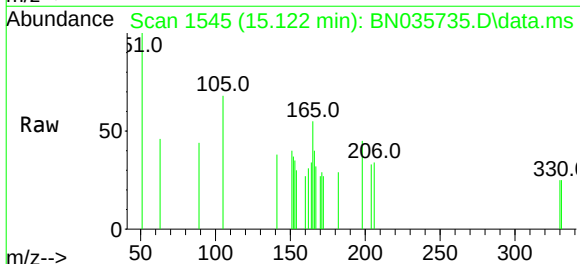
RT: 15.122 min Scan# 1545

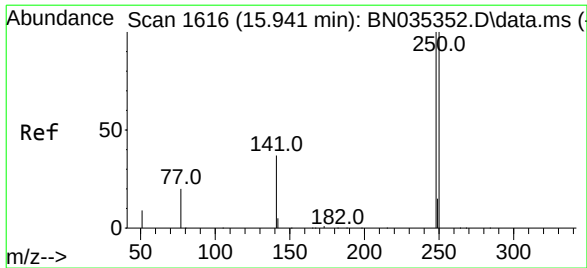
Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Tgt Ion:	198	Resp:	103
Ion	Ratio	Lower	Upper
198	100		
51	220.2	46.5	69.7#
105	150.0	45.3	67.9#





#21

4-Bromophenyl-phenylether

Concen: 0.353 ng

RT: 15.904 min Scan# 1616

Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

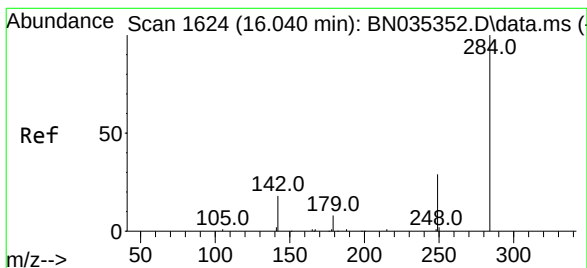
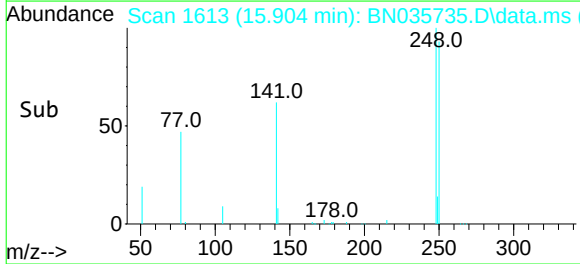
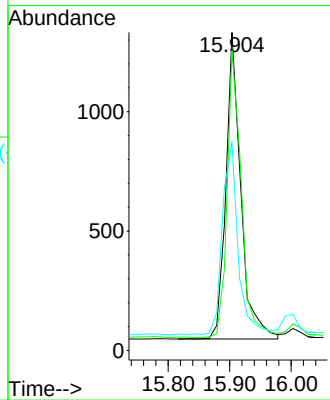
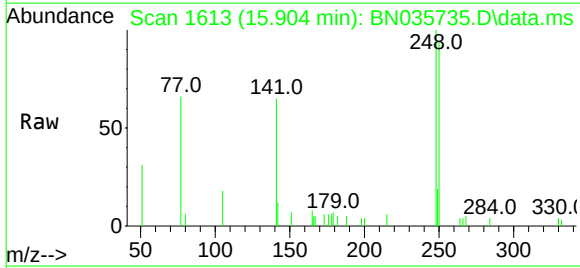
Tgt Ion:	248	Resp:	2167
Ion	Ratio	Lower	Upper
248	100		
250	94.2	80.6	120.8
141	65.2	31.5	47.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#22

Hexachlorobenzene

Concen: 0.339 ng

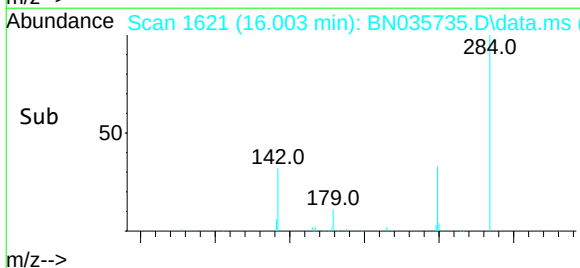
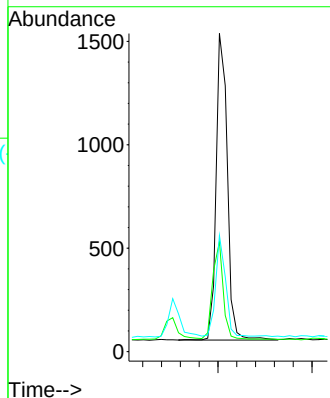
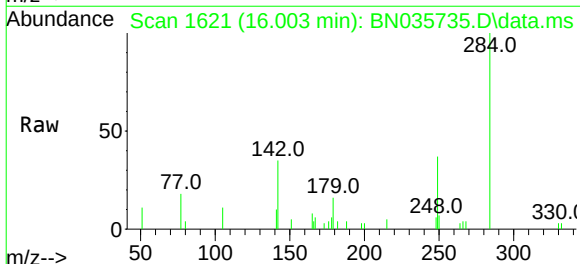
RT: 16.003 min Scan# 1621

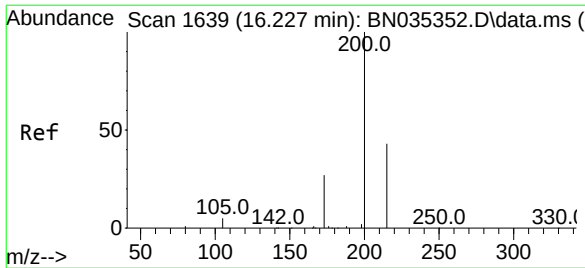
Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Tgt Ion:	284	Resp:	2445
Ion	Ratio	Lower	Upper
284	100		
142	30.1	26.7	40.1
249	29.0	24.6	36.8





#23

Atrazine

Concen: 0.288 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

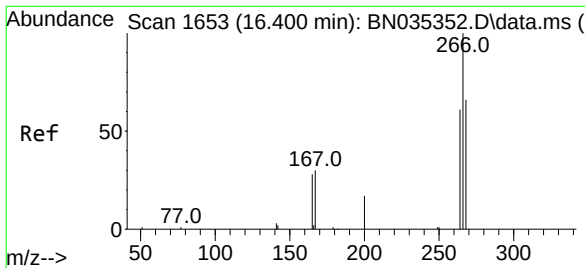
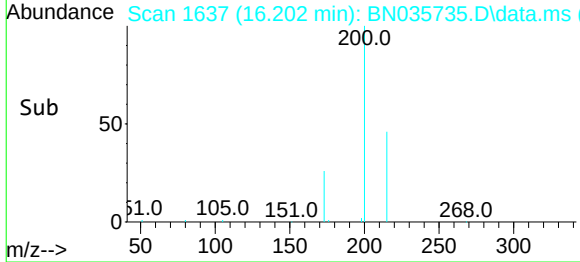
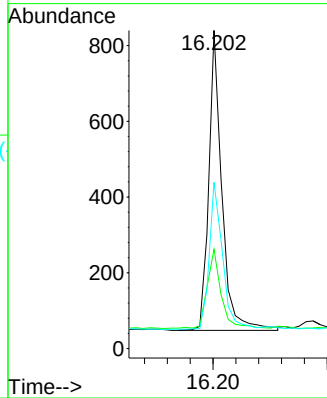
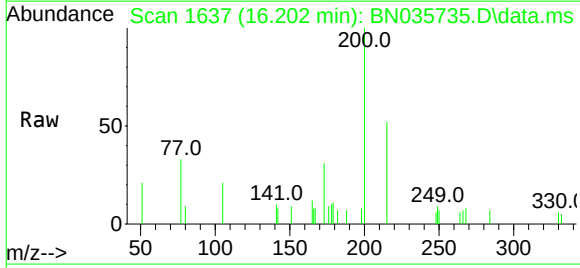
ClientSampleId :

BPOW6-11-20241212MS

Tgt	Ion	200	Resp:	1259
Ion	Ratio	Lower	Upper	
200	100			
173	31.2	24.1	36.1	
215	52.3	36.9	55.3	

Manual Integrations
APPROVED

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



#24

Pentachlorophenol

Concen: 0.087 ng

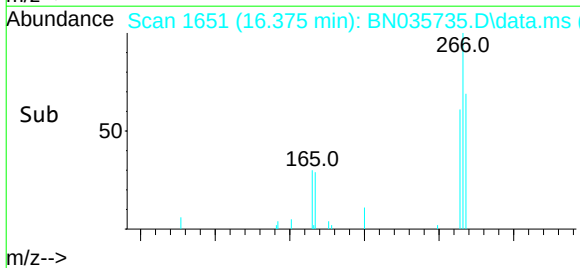
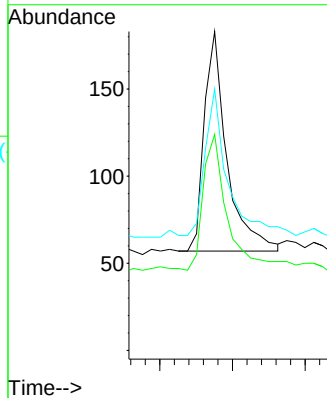
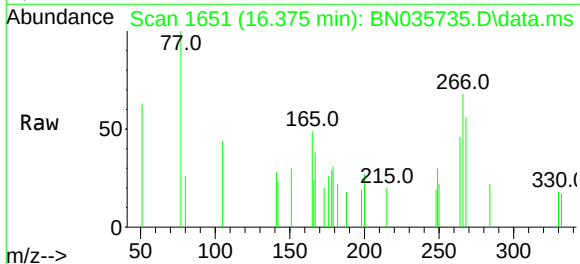
RT: 16.375 min Scan# 1651

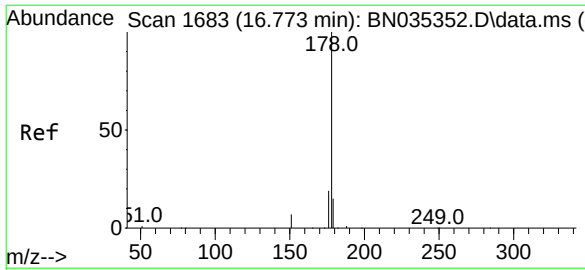
Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Tgt	Ion	266	Resp:	273
Ion	Ratio	Lower	Upper	
266	100			
264	65.9	42.3	63.5#	
268	70.7	43.3	64.9#	





#25

Phenanthrene

Concen: 0.356 ng

RT: 16.735 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

Tgt Ion:178 Resp: 10260

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

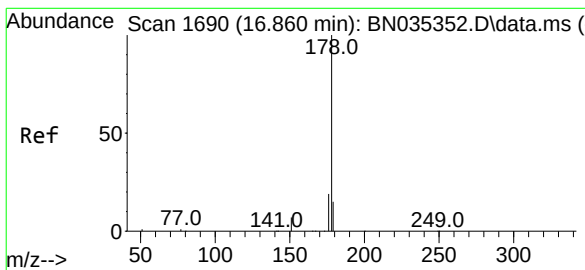
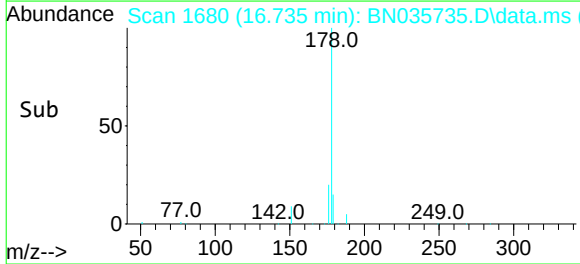
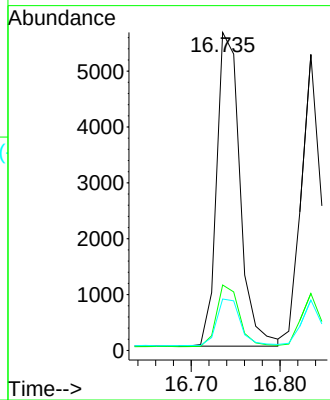
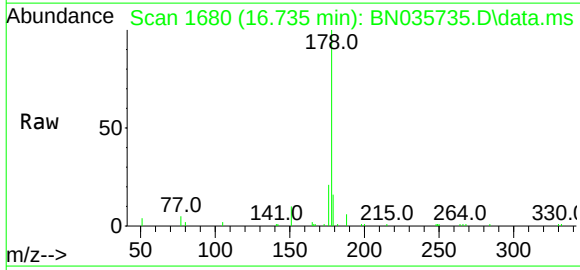
179 15.2 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#26

Anthracene

Concen: 0.342 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

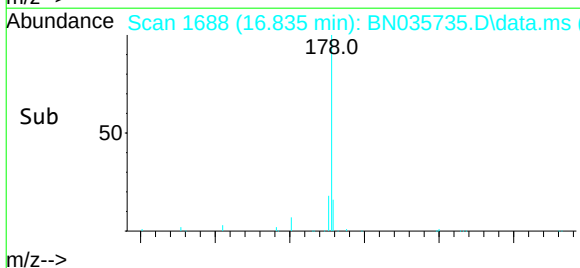
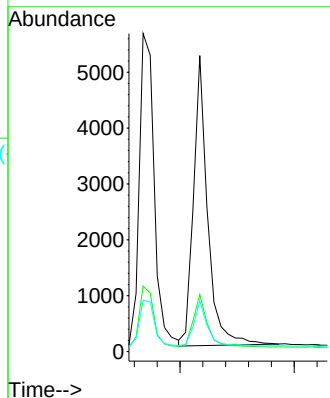
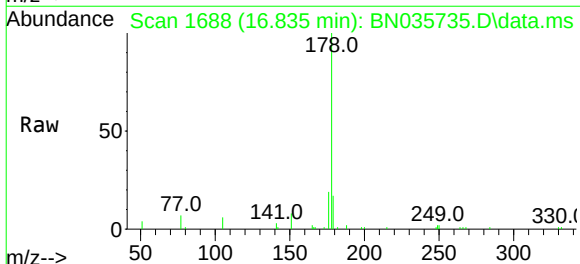
Tgt Ion:178 Resp: 8925

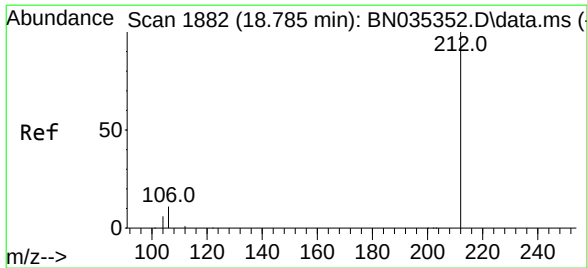
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 18.757 min Scan# 18

Delta R.T. -0.005 min

Lab File: BN035735.D

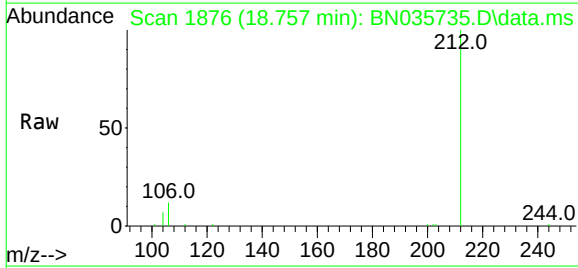
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:212 Resp: 11313

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

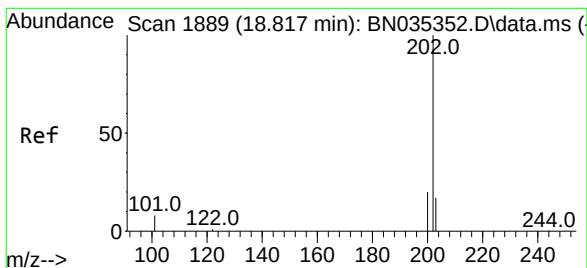
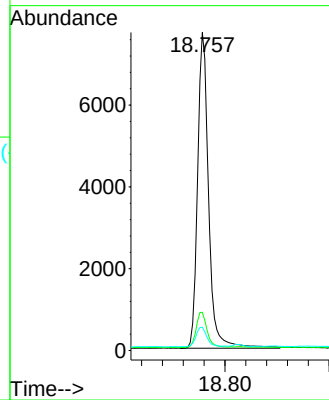
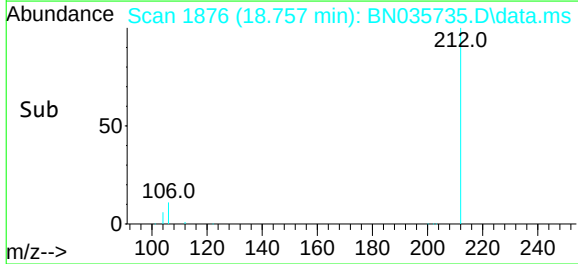
104 6.1 5.3 7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#28

Fluoranthene

Concen: 0.332 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

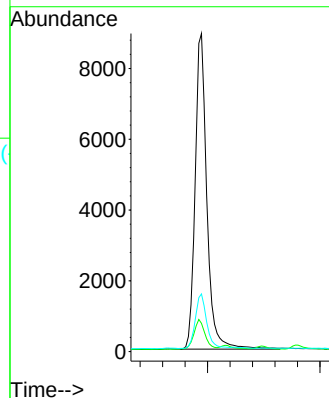
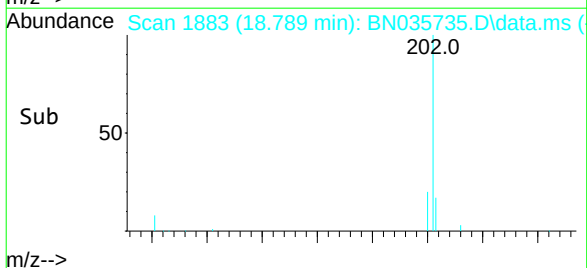
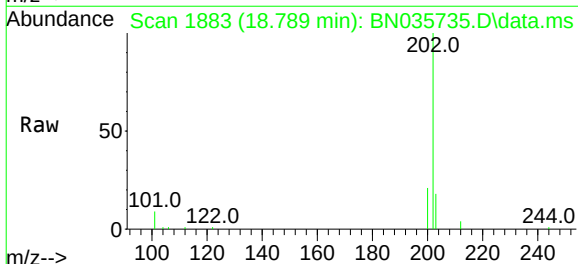
Tgt Ion:202 Resp: 12930

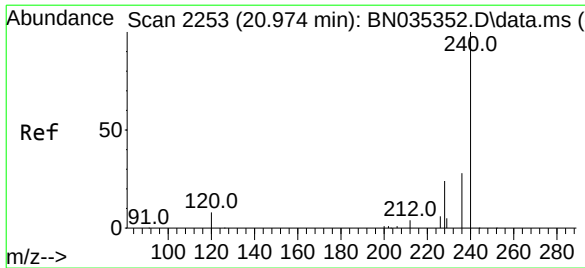
Ion Ratio Lower Upper

202 100

101 8.8 7.4 11.0

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN035735.D

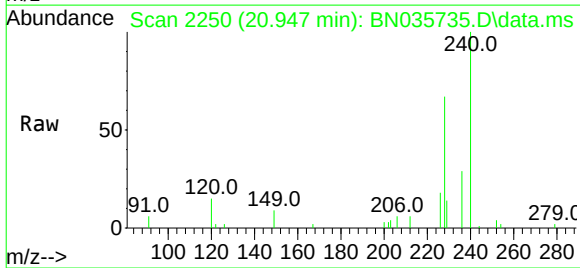
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

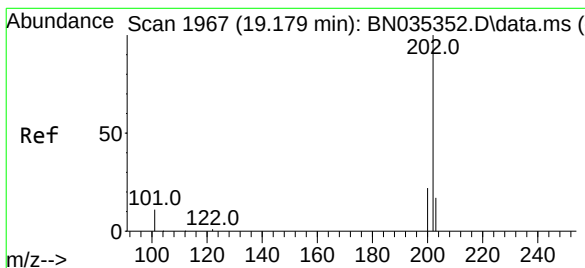
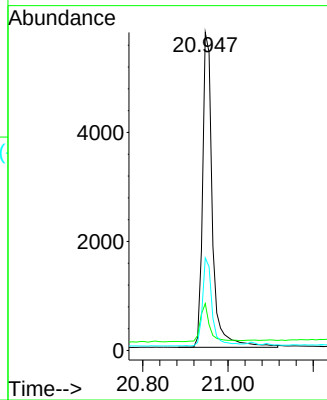
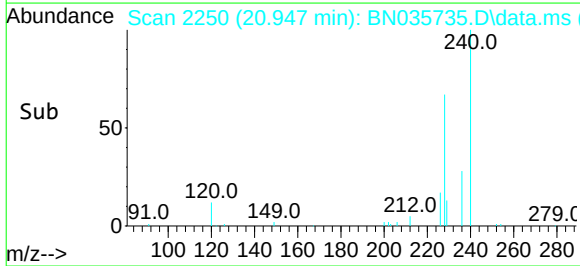
BPOW6-11-20241212MS



Tgt Ion:	240	Resp:	9278
Ion	Ratio	Lower	Upper
240	100		
120	14.8	7.9	11.9
236	29.1	22.9	34.3

Manual Integrations
APPROVED

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



#30

Pyrene

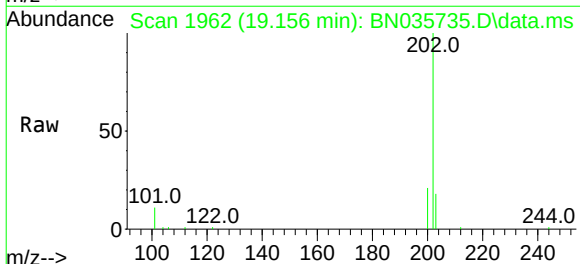
Concen: 0.394 ng

RT: 19.156 min Scan# 1962

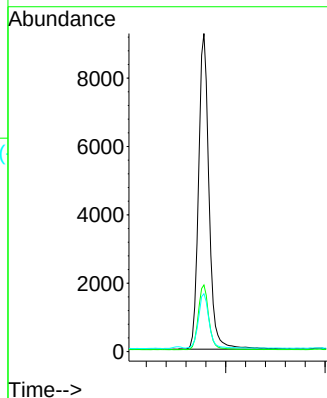
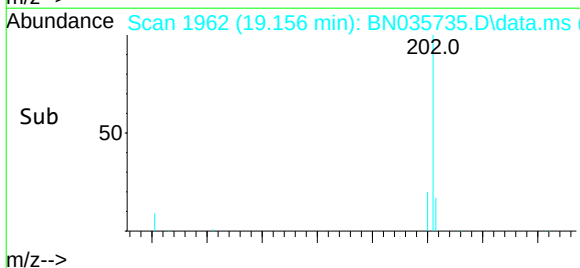
Delta R.T. -0.005 min

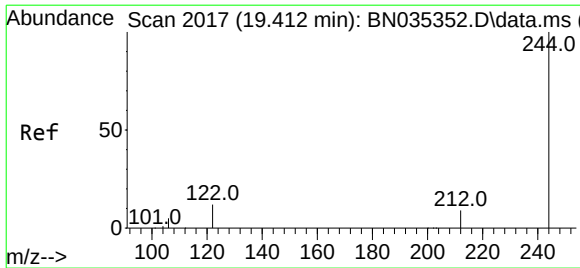
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



Tgt Ion:	202	Resp:	13495
Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	17.6	14.3	21.5





#31

Terphenyl-d14

Concen: 0.488 ng

RT: 19.388 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

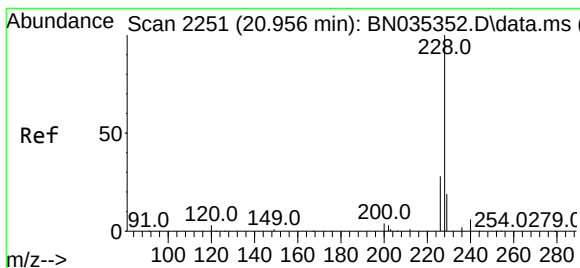
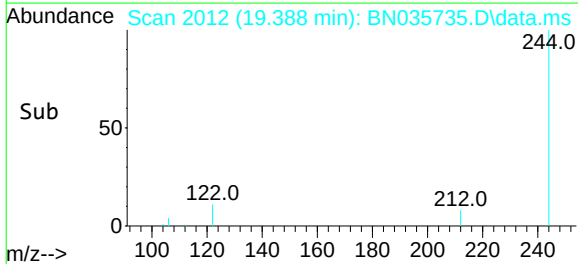
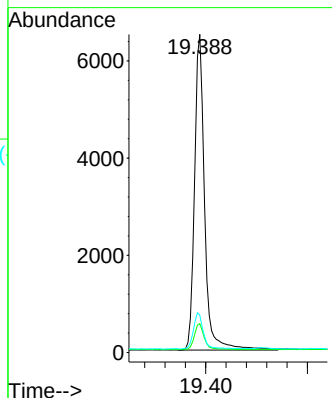
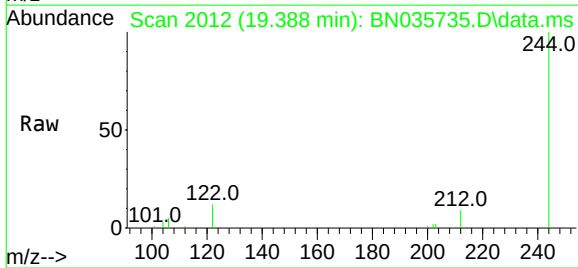
ClientSampleId :

BPOW6-11-20241212MS

Tgt Ion:	244	Resp:	8932
Ion	Ratio	Lower	Upper
244	100		
212	9.0	8.1	12.1
122	11.7	10.3	15.5

Manual Integrations
APPROVED

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



#32

Benzo(a)anthracene

Concen: 0.348 ng

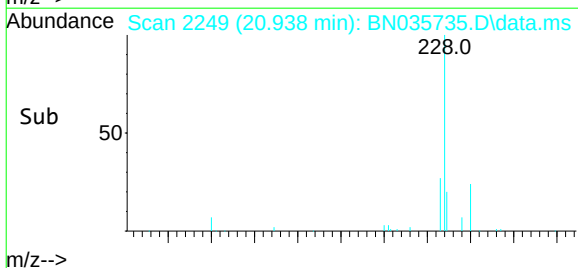
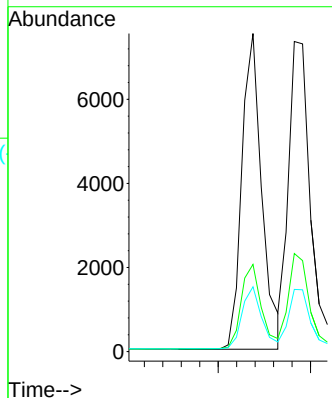
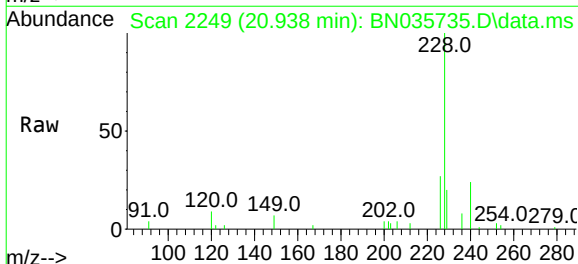
RT: 20.938 min Scan# 2249

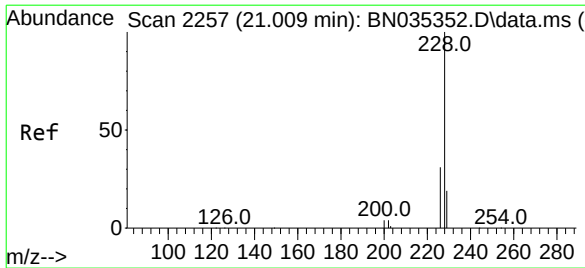
Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Tgt Ion:	228	Resp:	11302
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.5	33.7
229	20.4	15.8	23.8





#33

Chrysene

Concen: 0.378 ng

RT: 20.982 min Scan# 2254

Delta R.T. -0.009 min

Lab File: BN035735.D

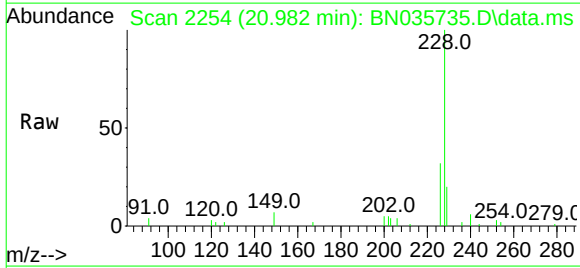
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

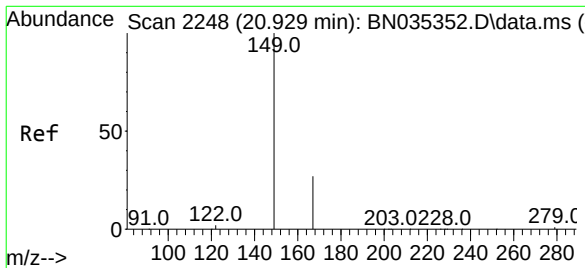
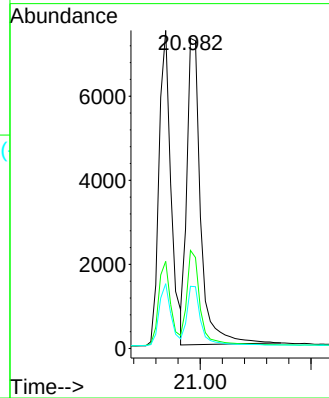
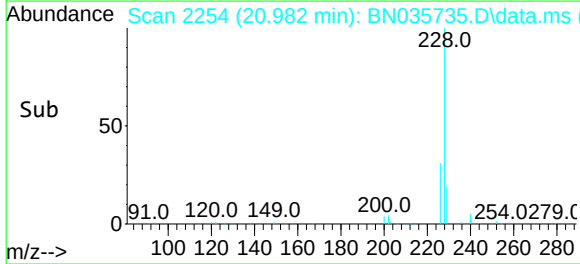
BPOW6-11-20241212MS



Tgt	Ion:	228	Resp:	12637
Ion	Ratio	Lower	Upper	
228	100			
226	31.6	24.6	37.0	
229	20.1	15.9	23.9	

**Manual Integrations
APPROVED**

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



#34

Bis(2-ethylhexyl)phthalate

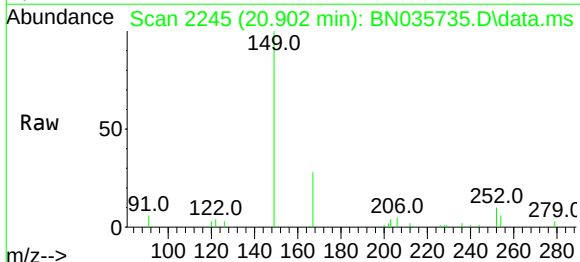
Concen: 0.477 ng

RT: 20.902 min Scan# 2245

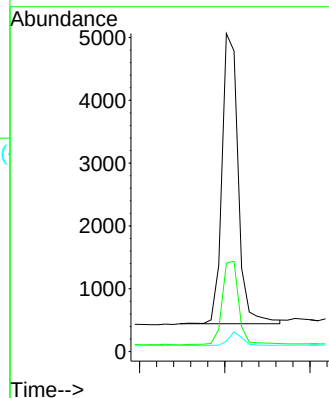
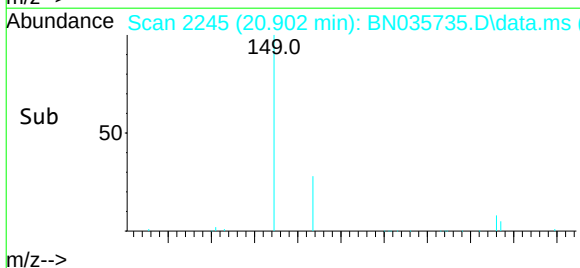
Delta R.T. -0.009 min

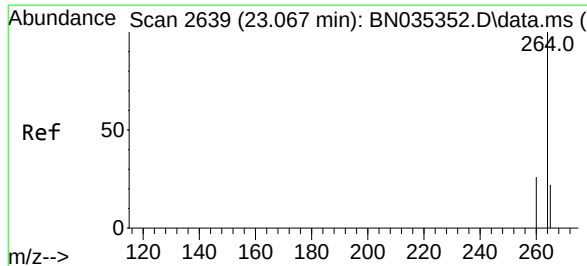
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



Tgt	Ion:	149	Resp:	6113
Ion	Ratio	Lower	Upper	
149	100			
167	29.6	22.2	33.4	
279	4.4	2.7	4.1	#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2639

Delta R.T. -0.003 min

Lab File: BN035735.D

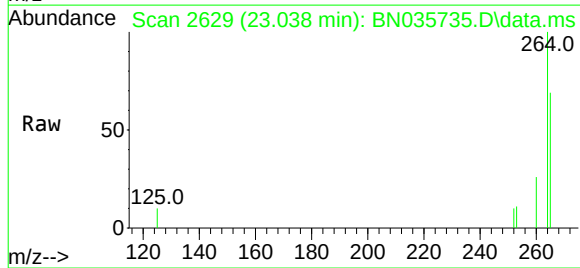
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion: 264 Resp: 9467

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

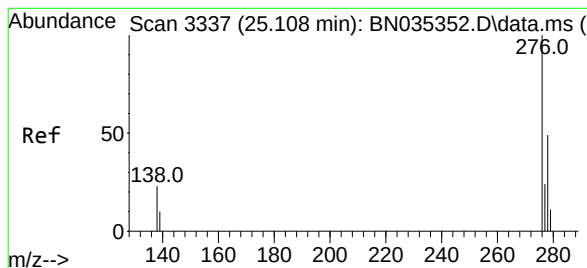
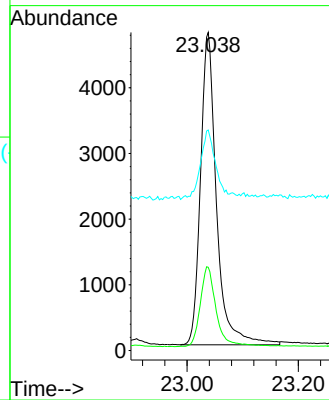
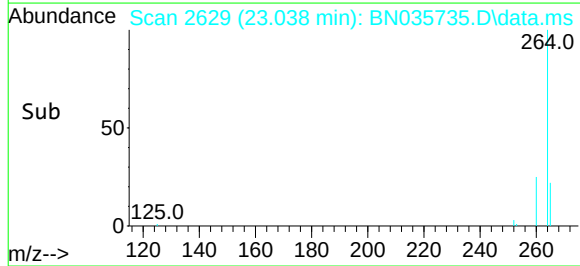
265 69.3 40.2 60.4#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#36

Indeno(1,2,3-cd)pyrene

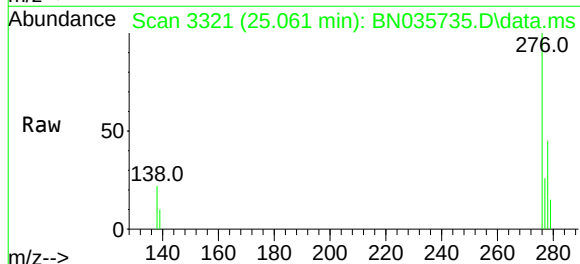
Concen: 0.335 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.006 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



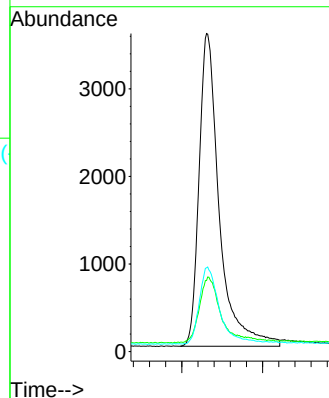
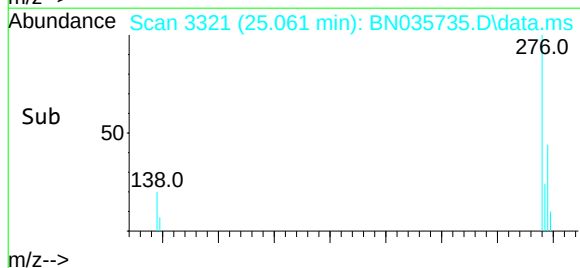
Tgt Ion: 276 Resp: 12412

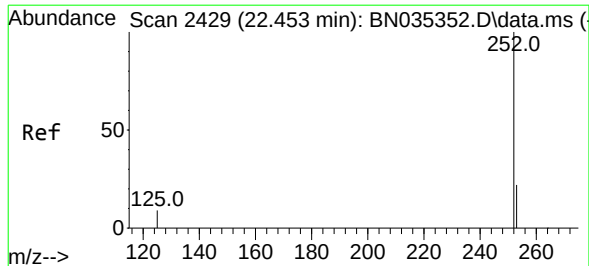
Ion Ratio Lower Upper

276 100

138 21.0 19.4 29.0

277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.536 ng

RT: 22.427 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035735.D

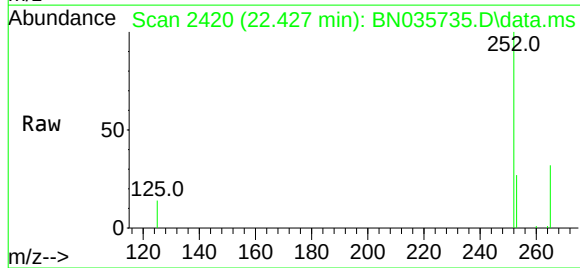
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:252 Resp: 18573

Ion Ratio Lower Upper

252 100

253 27.2 19.6 29.4

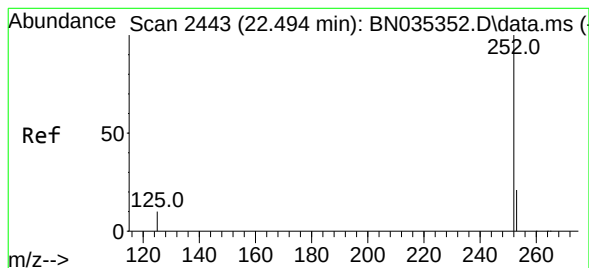
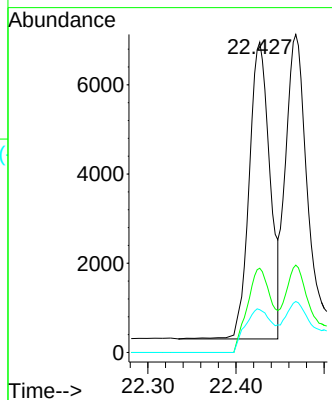
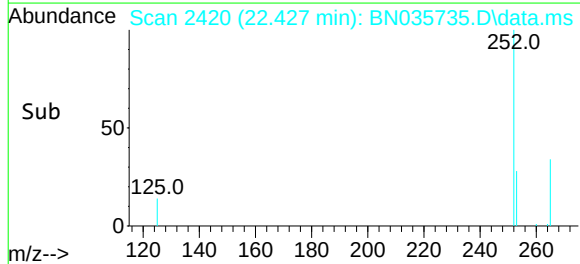
125 13.8 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#38

Benzo(k)fluoranthene

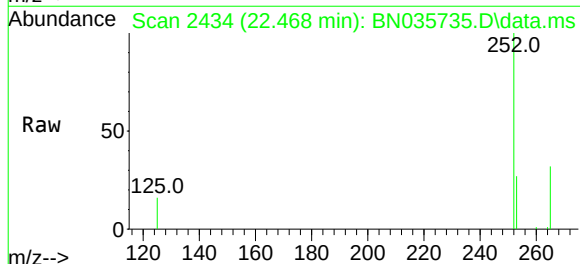
Concen: 0.378 ng m

RT: 22.468 min Scan# 2434

Delta R.T. -0.003 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



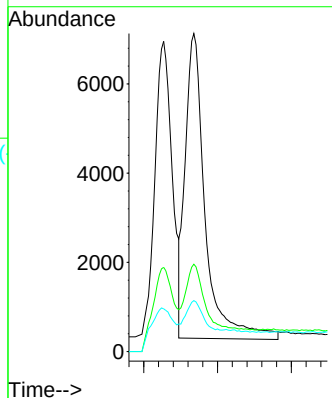
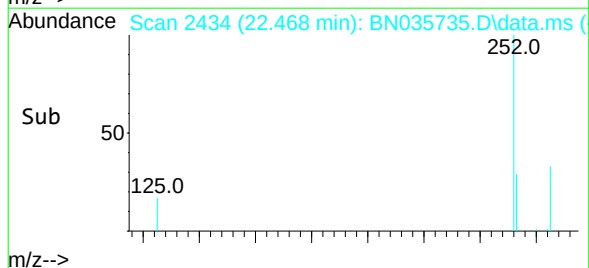
Tgt Ion:252 Resp: 12887

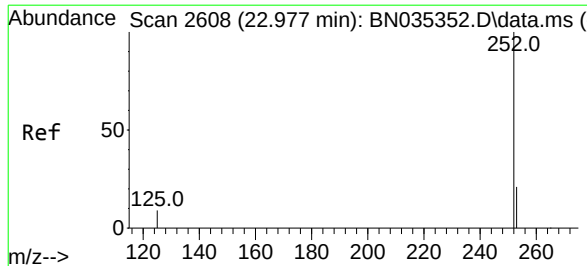
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 16.0 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.326 ng

RT: 22.950 min Scan# 25

Delta R.T. -0.000 min

Lab File: BN035735.D

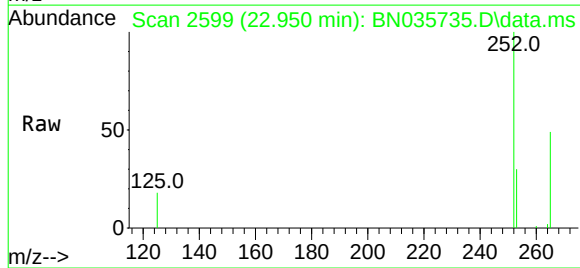
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

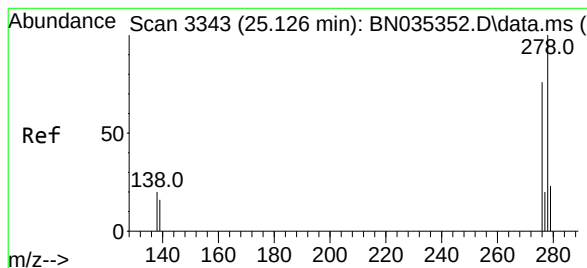
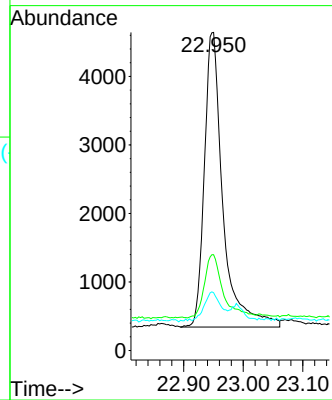
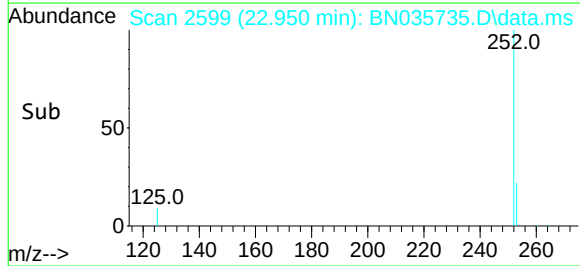
BPOW6-11-20241212MS



Tgt	Ion	252	Resp:	9310
Ion	Ratio	Lower	Upper	
252	100			
253	30.1	20.2	30.4	
125	18.2	10.9	16.3	

Manual Integrations
APPROVED

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



#40

Dibenzo(a,h)anthracene

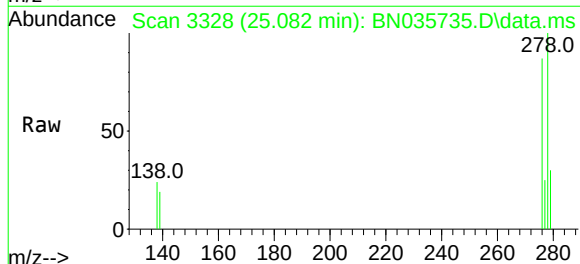
Concen: 0.331 ng

RT: 25.082 min Scan# 3328

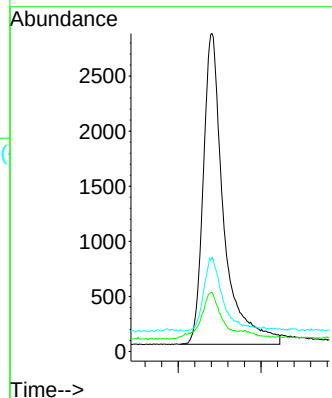
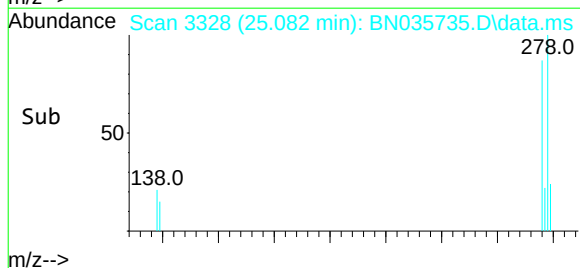
Delta R.T. -0.000 min

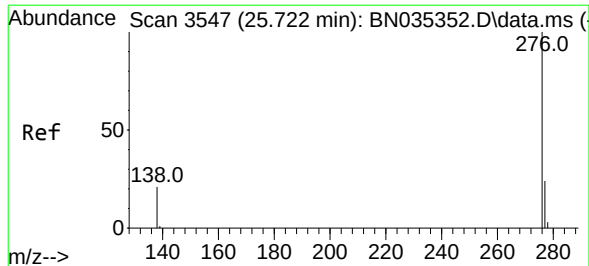
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



Tgt	Ion	278	Resp:	9663
Ion	Ratio	Lower	Upper	
278	100			
139	18.5	14.2	21.4	
279	29.6	20.5	30.7	





#41

Benzo(g,h,i)perylene

Concen: 0.305 ng

RT: 25.675 min Scan# 35

Delta R.T. -0.003 min

Lab File: BN035735.D

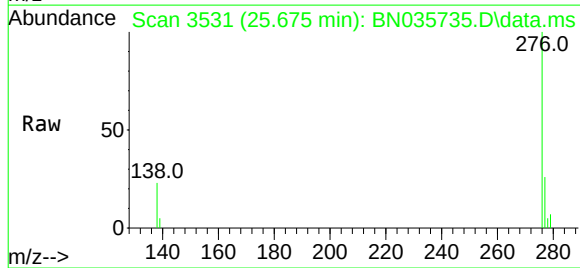
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



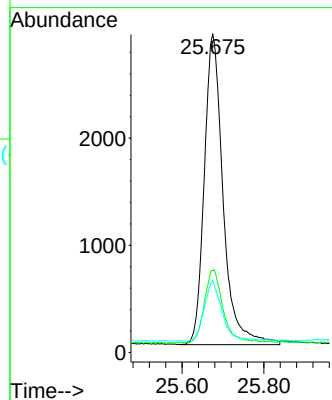
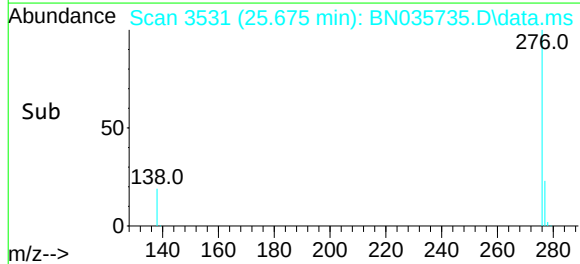
Tgt	Ion	276	Resp:	9301
Ion	Ratio	Lower	Upper	
276	100			
277	25.7	19.9	29.9	
138	22.7	17.8	26.8	

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/12/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	BPOW6-11-20241212MSD	SDG No.:	P5282
Lab Sample ID:	P5280-05MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035736.D	1	12/16/24 11:30	12/20/24 11:41	PB165667

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.55		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3360	7.272				
1146-65-2	Naphthalene-d8	9240	10.009				
15067-26-2	Acenaphthene-d10	5770	13.924				
1517-22-2	Phenanthrene-d10	12100	16.698				
1719-03-5	Chrysene-d12	11000	20.947				
1520-96-3	Perylene-d12	11400	23.038				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035736.D
 Acq On : 20 Dec 2024 11:41
 Operator : RC/JU
 Sample : P5280-05MSD
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-11-20241212MSD

Manual Integrations APPROVED

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

Quant Time: Dec 20 12:27:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	3357	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9243	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5773	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	12117	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	11029	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	11370	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	942	0.112	ng	0.00
5) Phenol-d6	6.484	99	701	0.069	ng	0.00
8) Nitrobenzene-d5	8.408	82	2003m	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4592	0.317	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	754	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6026	0.276	ng	0.00
27) Fluoranthene-d10	18.757	212	13288	0.387	ng	0.00
31) Terphenyl-d14	19.388	244	10572	0.486	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1749	0.545	ng	# 90
3) n-Nitrosodimethylamine	3.278	42	394	0.147	ng	# 89
6) bis(2-Chloroethyl)ether	6.723	93	2407	0.284	ng	99
9) Naphthalene	10.063	128	6583	0.270	ng	99
10) Hexachlorobutadiene	10.351	225	924	0.164	ng	# 99
12) 2-Methylnaphthalene	11.692	142	4392	0.252	ng	98
16) Acenaphthylene	13.636	152	7346	0.303	ng	99
17) Acenaphthene	13.989	154	4688	0.291	ng	98
18) Fluorene	14.993	166	6437	0.279	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	141	0.118	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2466	0.348	ng	# 82
22) Hexachlorobenzene	16.003	284	2768	0.333	ng	95
23) Atrazine	16.202	200	1444	0.286	ng	96
24) Pentachlorophenol	16.375	266	361	0.100	ng	92
25) Phenanthrene	16.735	178	11782	0.354	ng	99
26) Anthracene	16.835	178	10189	0.338	ng	99
28) Fluoranthene	18.789	202	15192	0.339	ng	99
30) Pyrene	19.156	202	15901	0.391	ng	99
32) Benzo(a)anthracene	20.938	228	13511	0.350	ng	98
33) Chrysene	20.991	228	15009	0.377	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7279	0.478	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.061	276	14877	0.335	ng	98
37) Benzo(b)fluoranthene	22.427	252	21467	0.516	ng	97
38) Benzo(k)fluoranthene	22.468	252	15196m	0.371	ng	
39) Benzo(a)pyrene	22.950	252	11175	0.326	ng	93
40) Dibenzo(a,h)anthracene	25.079	278	11466	0.327	ng	97
41) Benzo(g,h,i)perylene	25.675	276	11017	0.301	ng	99

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

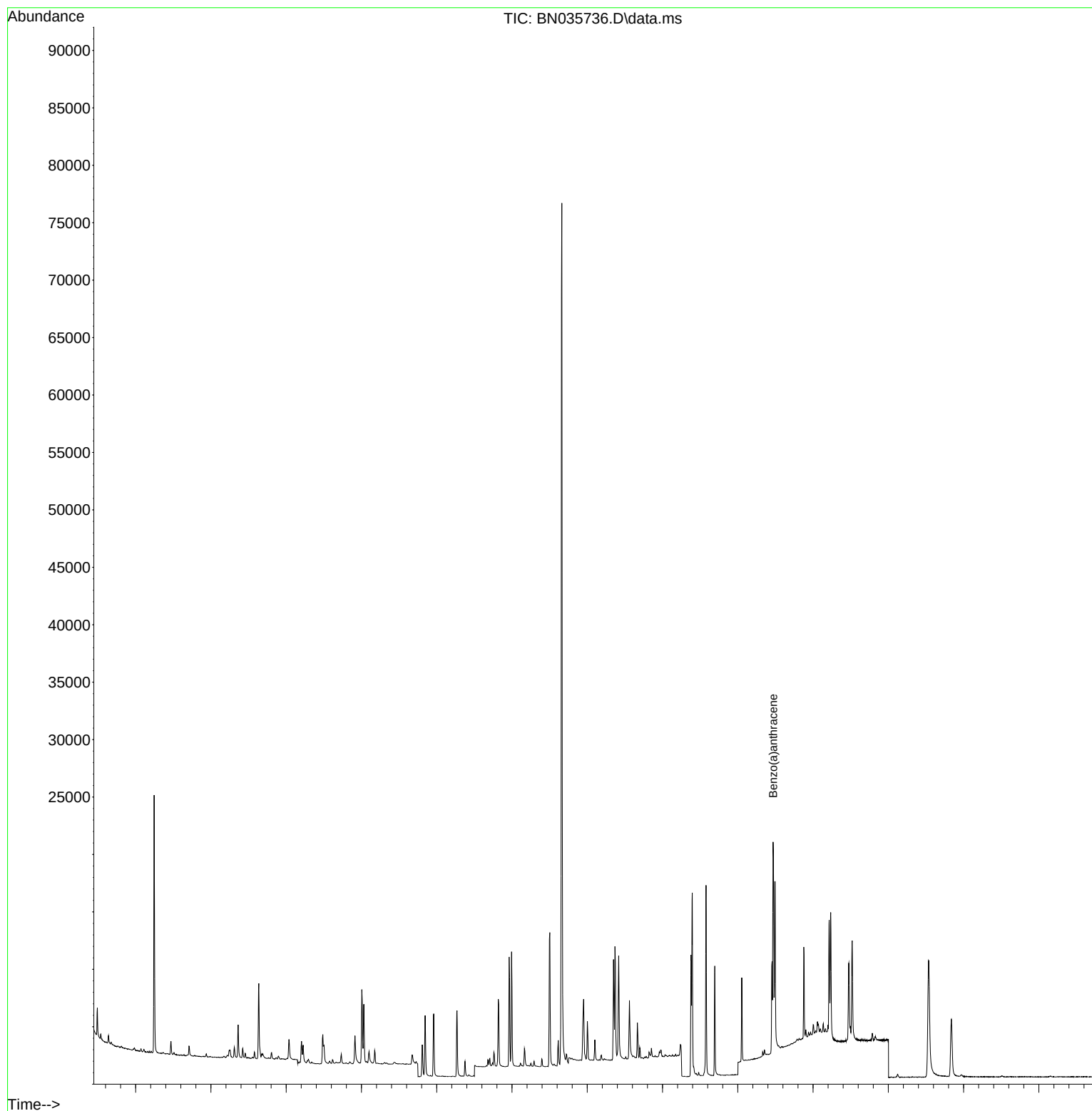
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035736.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : P5280-05MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

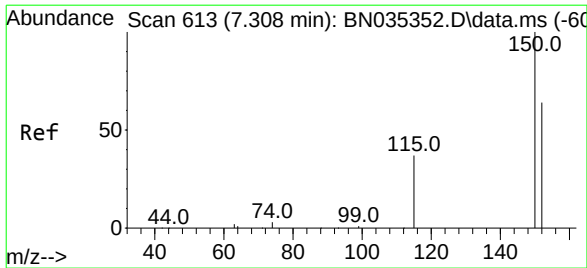
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Manual Integrations
APPROVED

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

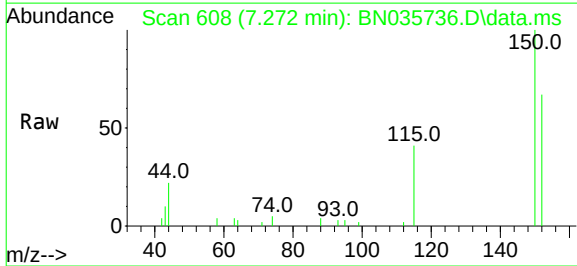
Quant Time: Dec 20 12:27:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 60
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

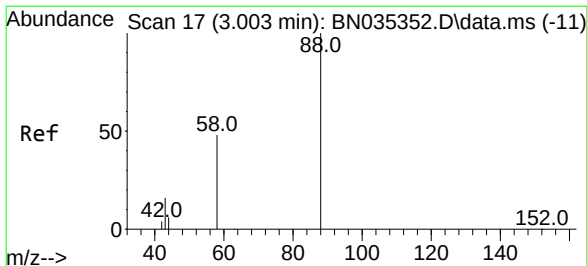
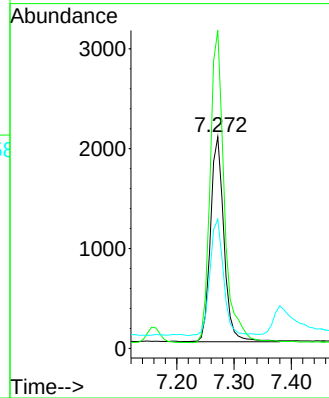
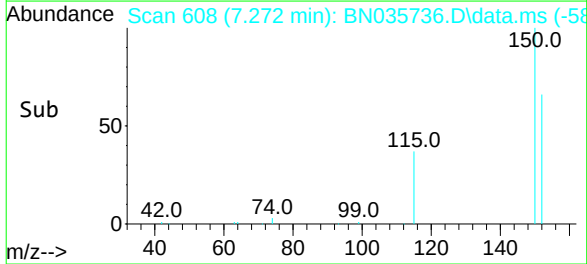
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD



Tgt Ion: 152 Resp: 3357
Ion Ratio Lower Upper
152 100
150 150.3 124.0 186.0
115 61.1 49.6 74.4

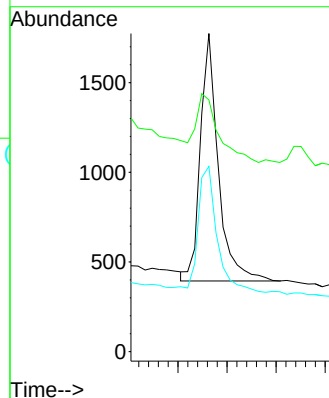
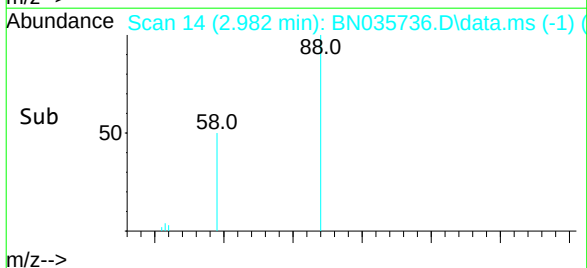
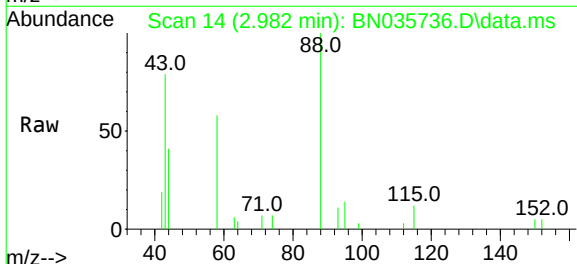
Manual Integrations
APPROVED

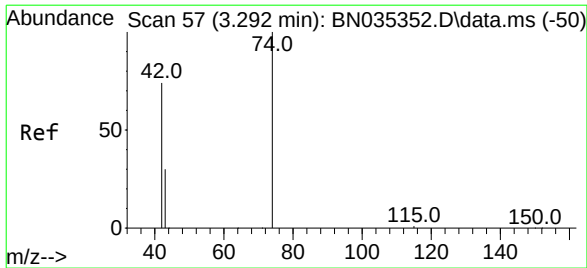
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#2
1,4-Dioxane
Concen: 0.545 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

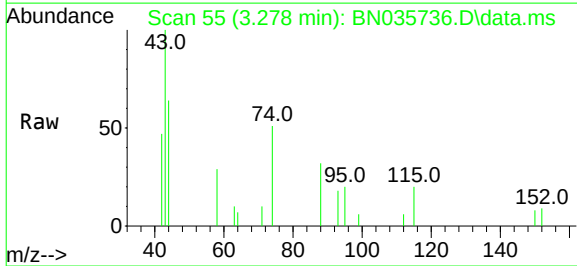
Tgt Ion: 88 Resp: 1749
Ion Ratio Lower Upper
88 100
43 34.9 17.2 25.8#
58 53.4 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.147 ng
RT: 3.278 min Scan# 55
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

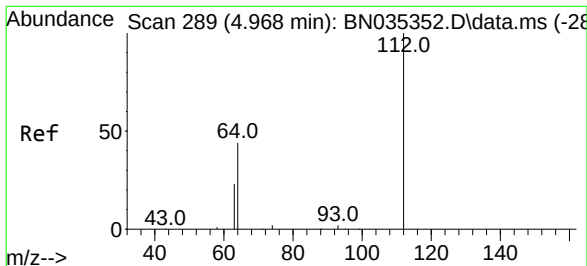
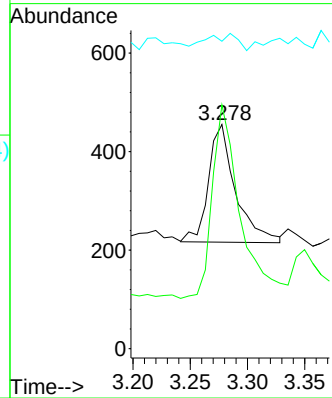
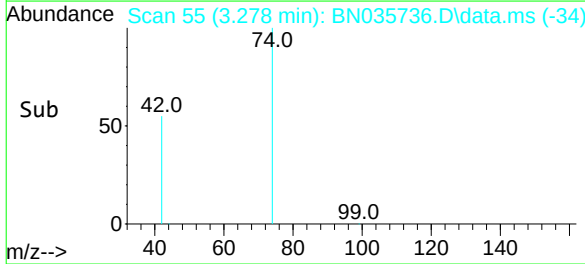
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD



Tgt Ion: 42 Resp: 394
Ion Ratio Lower Upper
42 100
74 169.8 124.9 187.3
44 16.0 2.2 3.4

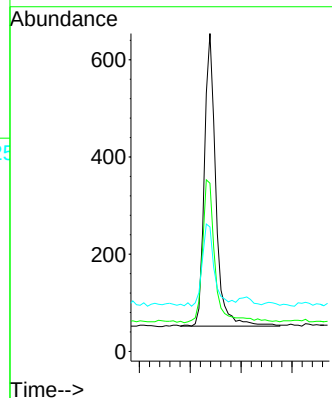
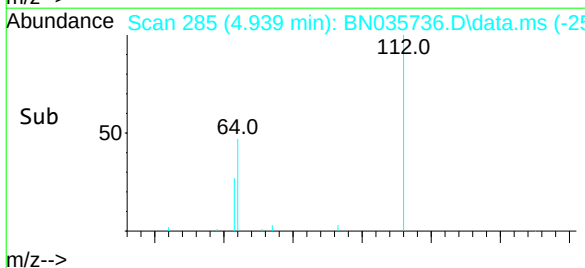
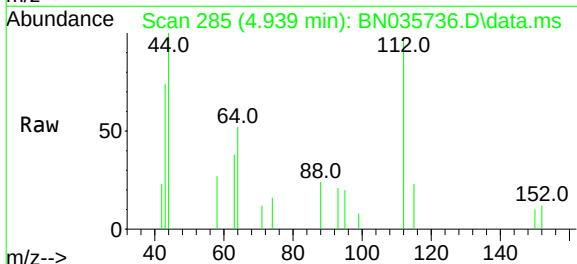
Manual Integrations
APPROVED

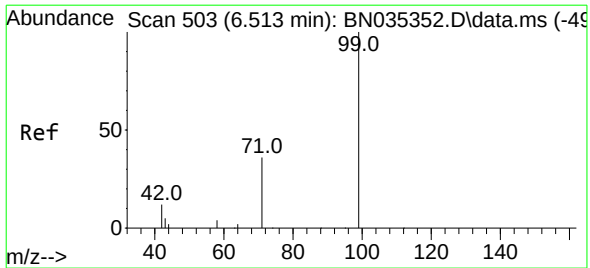
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#4
2-Fluorophenol
Concen: 0.112 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

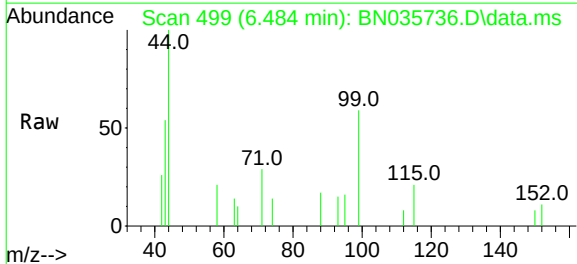
Tgt Ion:112 Resp: 942
Ion Ratio Lower Upper
112 100
64 54.1 39.8 59.8
63 29.4 21.0 31.6





#5
Phenol-d6
Concen: 0.069 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

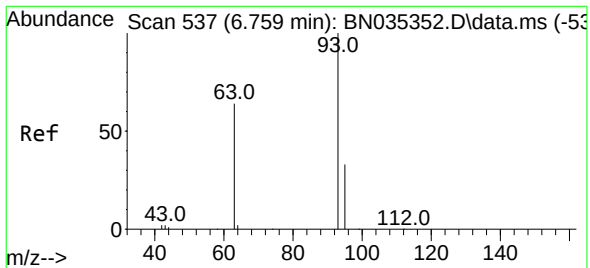
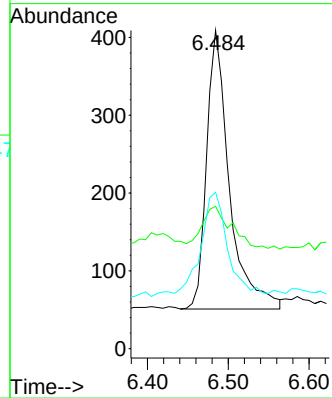
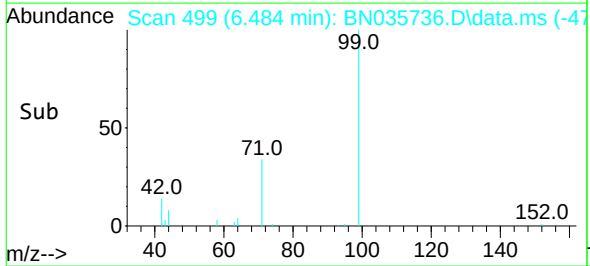
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD



Tgt Ion: 99 Resp: 701
Ion Ratio Lower Upper
99 100
42 20.0 11.4 17.2#
71 45.9 29.3 43.9#

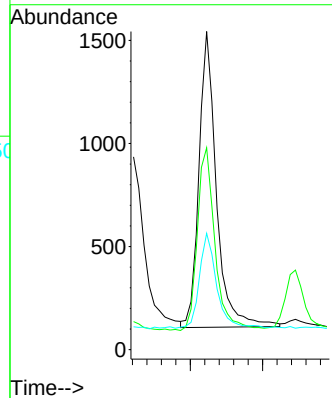
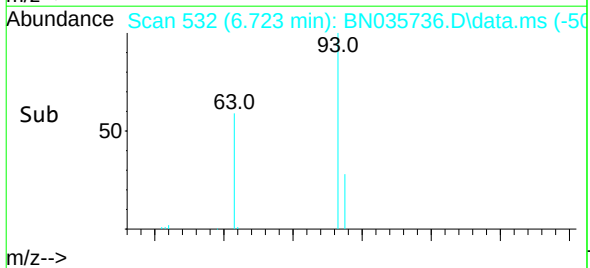
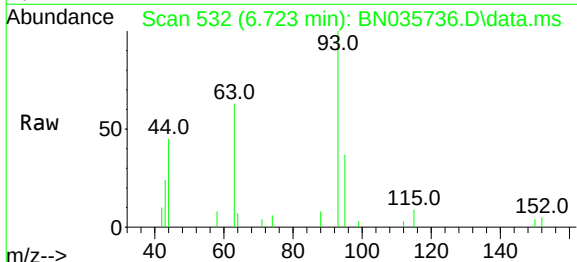
Manual Integrations
APPROVED

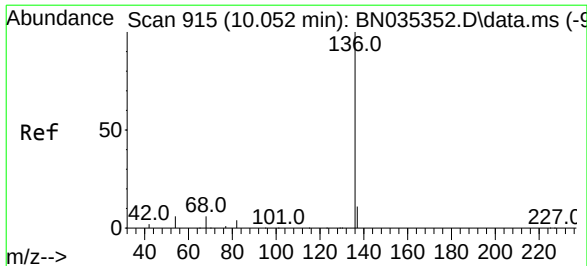
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.284 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

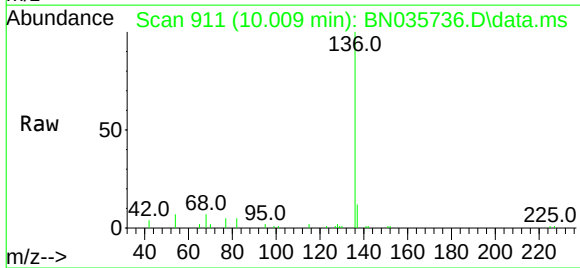
Tgt Ion: 93 Resp: 2407
Ion Ratio Lower Upper
93 100
63 61.9 50.4 75.6
95 31.7 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

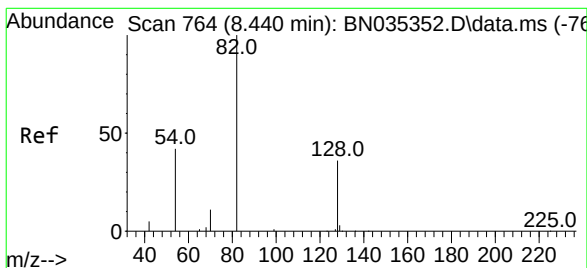
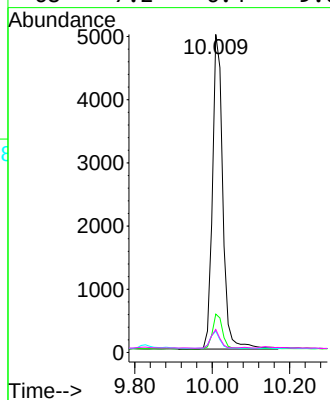
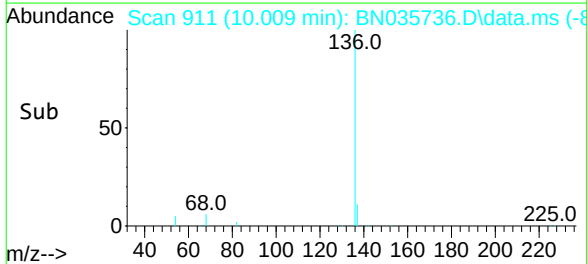
Instrument : BNA_N
ClientSampleId : BPOW6-11-20241212MSD



Tgt Ion: 136 Resp: 9243
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 6.7 6.1 9.1
68 7.2 6.4 9.6

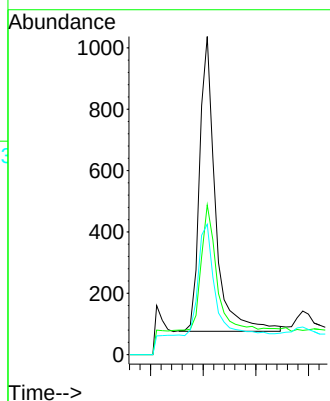
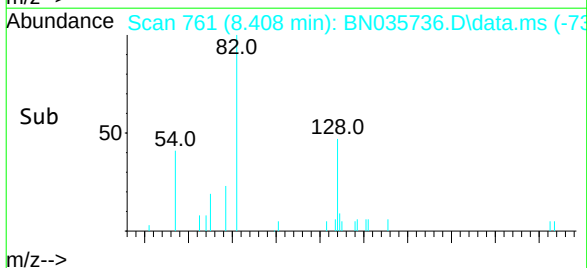
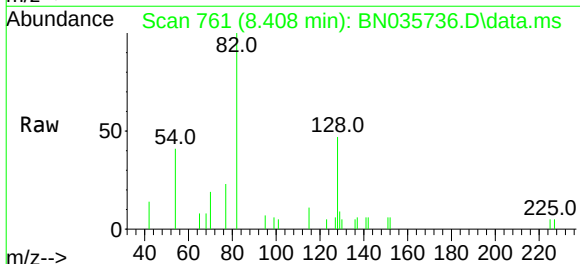
Manual Integrations
APPROVED

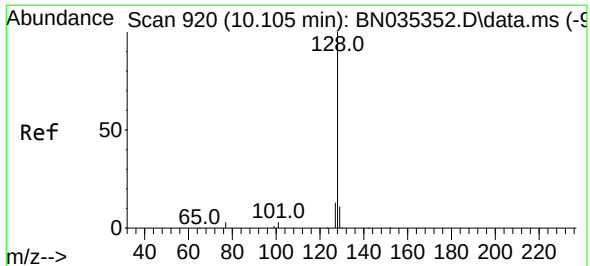
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#8
Nitrobenzene-d5
Concen: 0.355 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 82 Resp: 2003
Ion Ratio Lower Upper
82 100
128 47.1 33.4 50.0
54 41.0 36.7 55.1



#9
Naphthalene

Concen: 0.270 ng

RT: 10.063 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

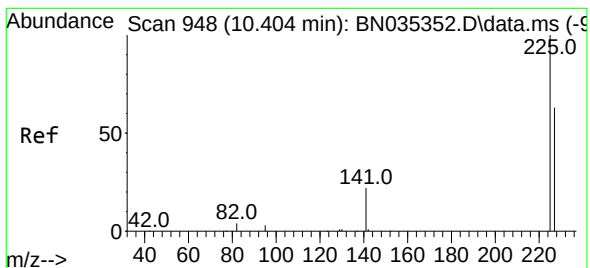
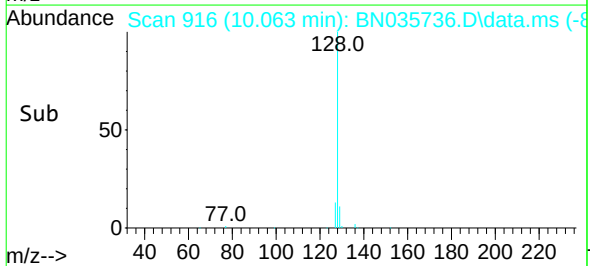
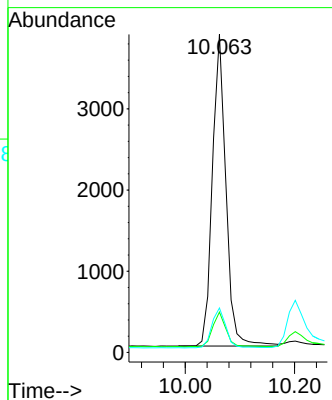
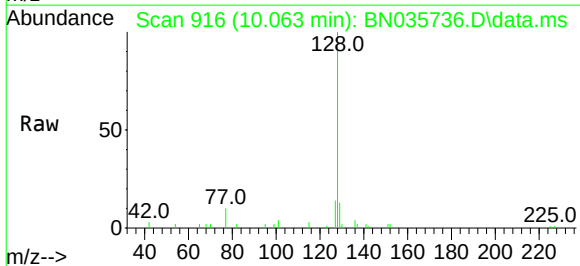
Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:	128	Resp:	6583
Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	14.0	11.4	17.2

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

#10

Hexachlorobutadiene

Concen: 0.164 ng

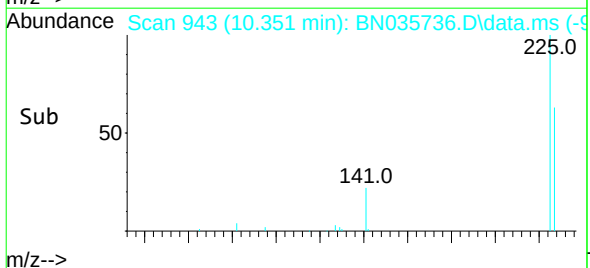
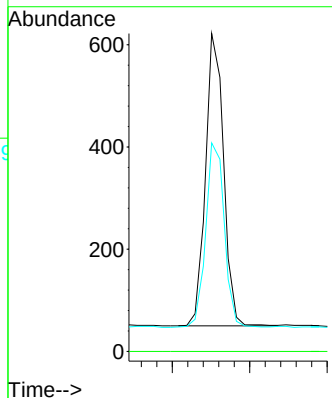
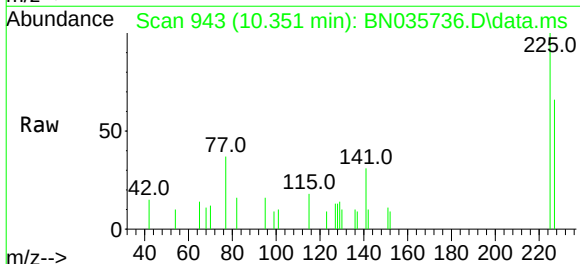
RT: 10.351 min Scan# 943

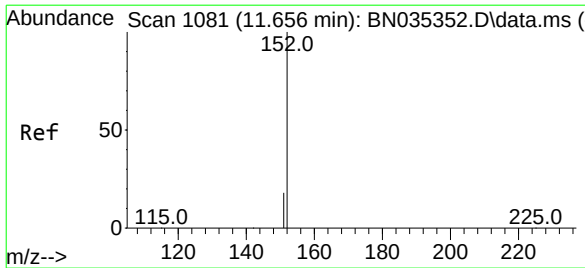
Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

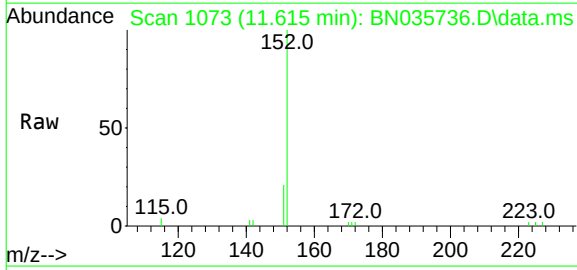
Tgt Ion:	225	Resp:	924
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 11.615 min Scan# 1081
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

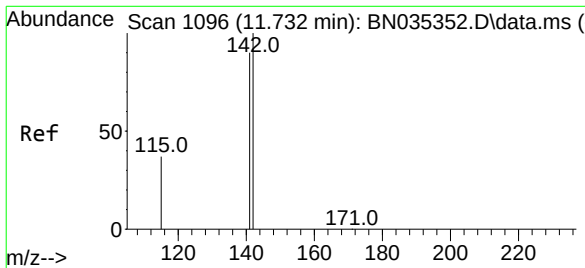
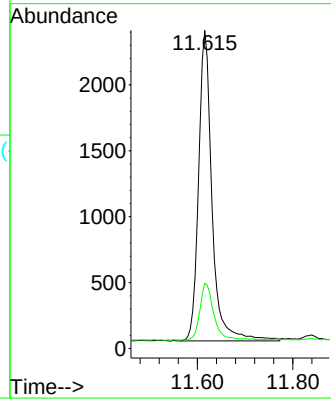
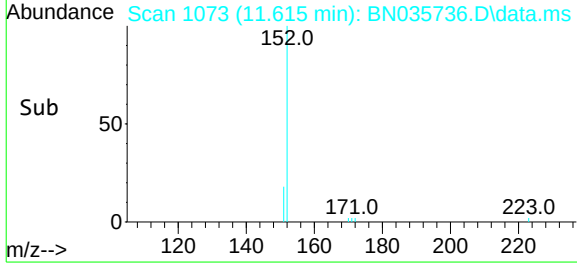
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD



Tgt Ion:152 Resp: 4592
Ion Ratio Lower Upper
152 100
151 19.0 16.6 25.0

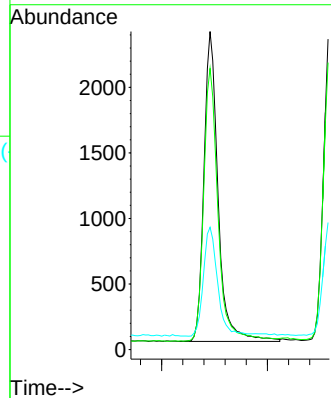
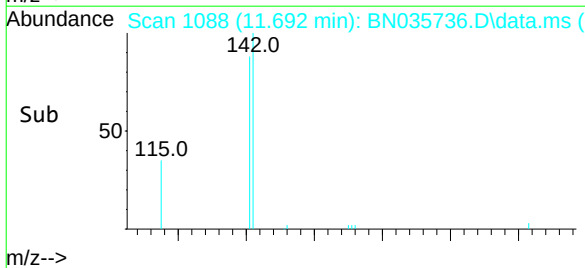
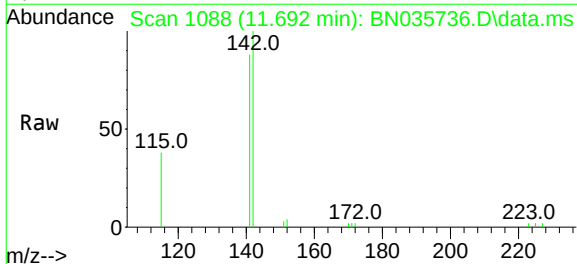
Manual Integrations
APPROVED

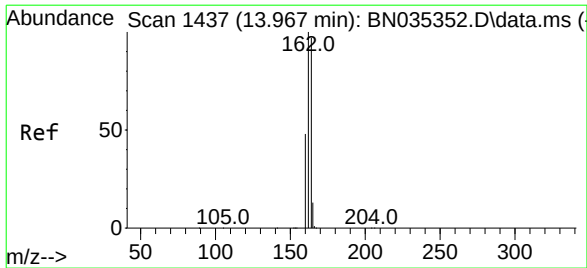
Reviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024



#12
2-Methylnaphthalene
Concen: 0.252 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:142 Resp: 4392
Ion Ratio Lower Upper
142 100
141 88.4 72.2 108.4
115 38.5 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035736.D

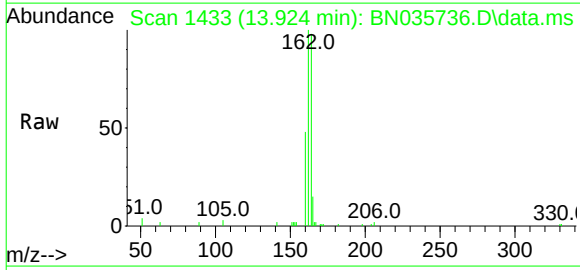
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion:164 Resp: 5773

Ion Ratio Lower Upper

164 100

162 102.4 82.2 123.2

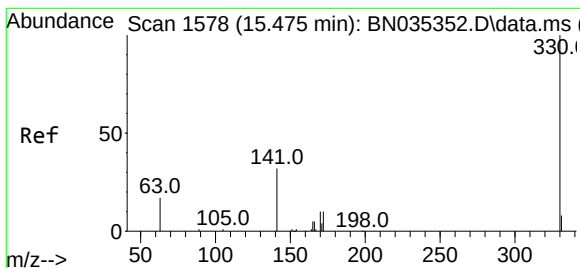
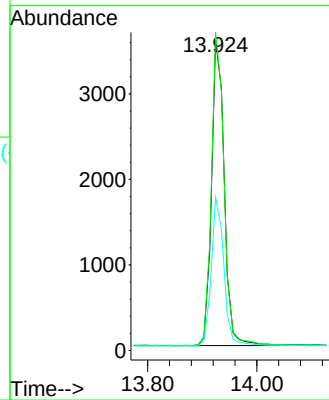
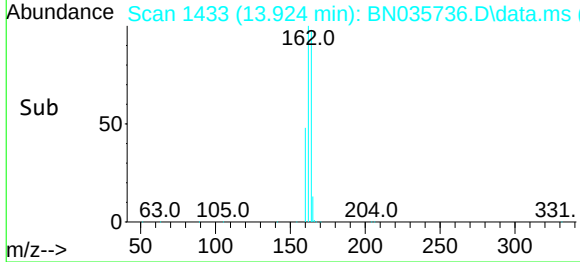
160 49.3 40.1 60.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#14

2,4,6-Tribromophenol

Concen: 0.184 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

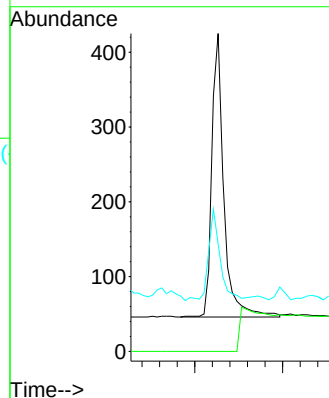
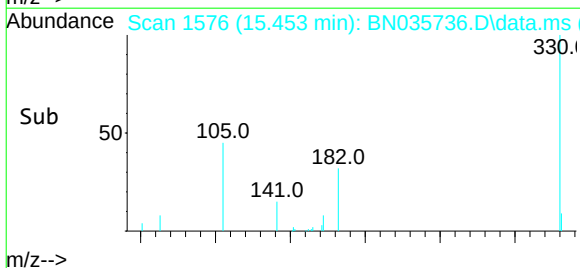
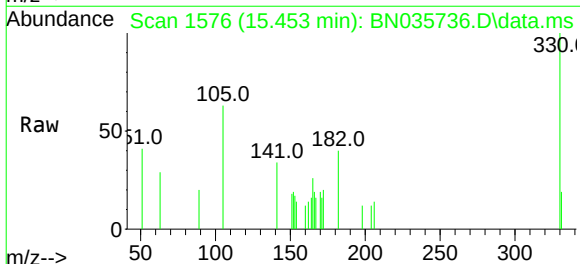
Tgt Ion:330 Resp: 754

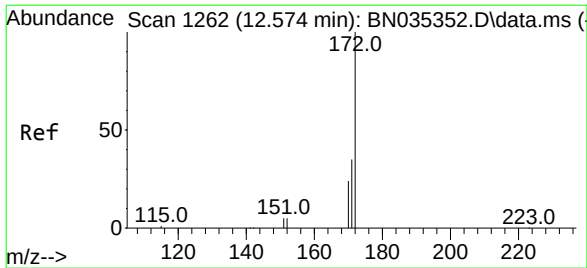
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 28.5 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.276 ng

RT: 12.538 min Scan# 12

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:172 Resp: 6026

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

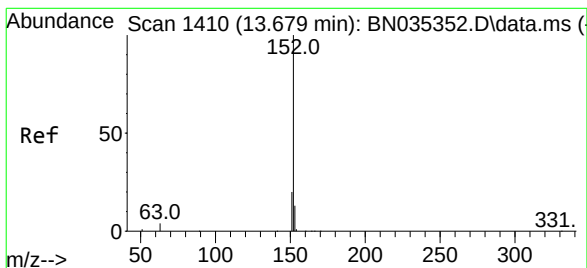
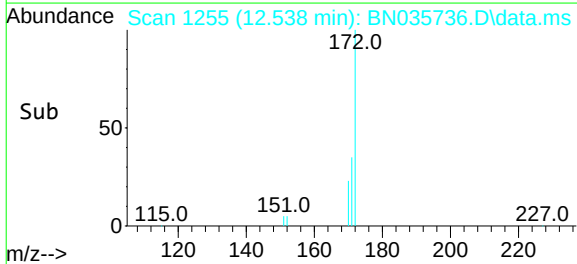
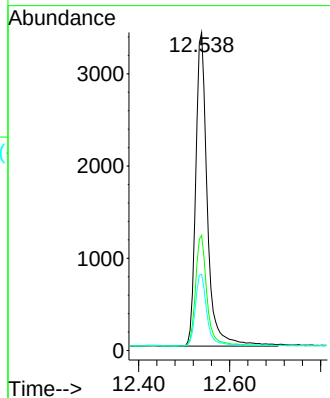
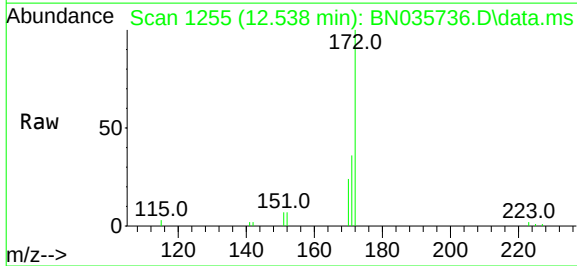
170 24.0 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#16

Acenaphthylene

Concen: 0.303 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

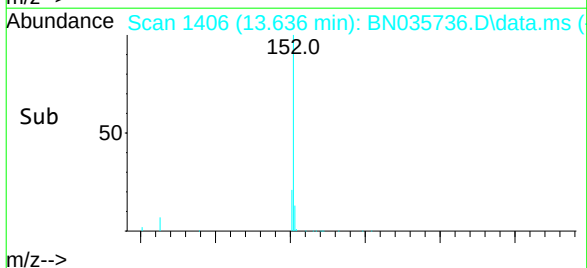
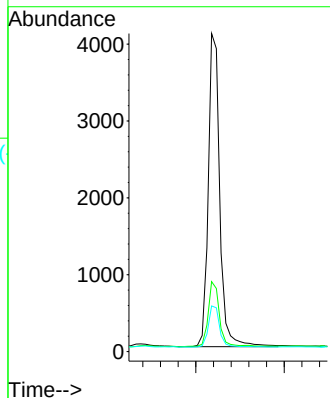
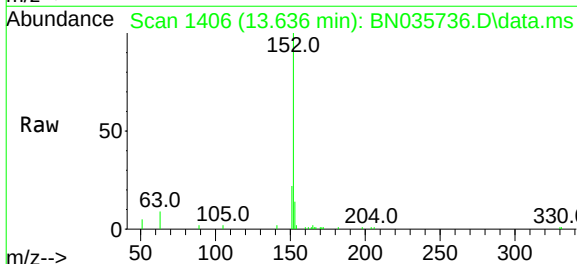
Tgt Ion:152 Resp: 7346

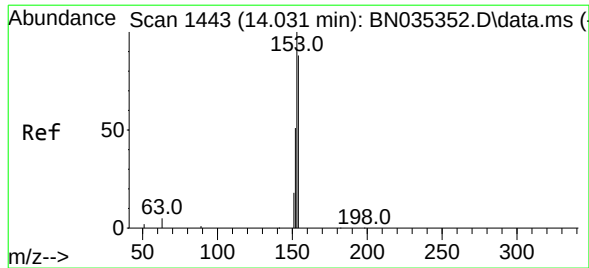
Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.2

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 0.291 ng

RT: 13.989 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035736.D

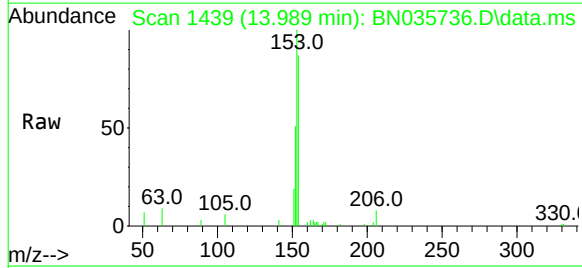
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion:154 Resp: 4688

Ion Ratio Lower Upper

154 100

153 116.3 92.6 139.0

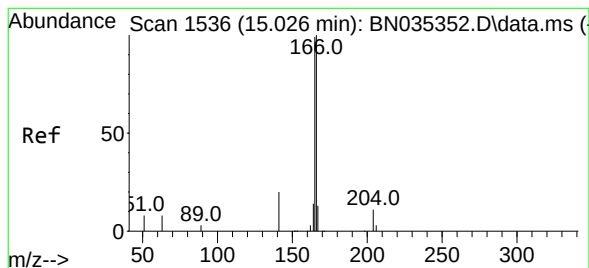
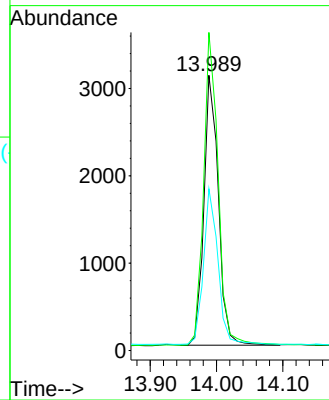
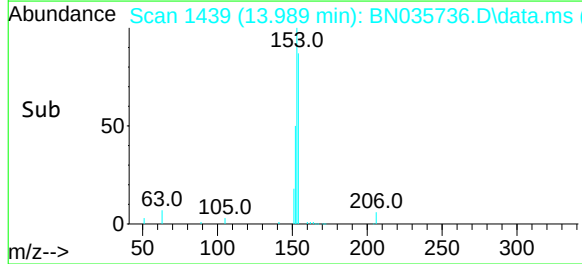
152 58.3 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#18

Fluorene

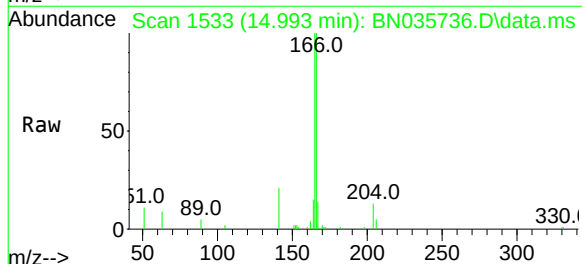
Concen: 0.279 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



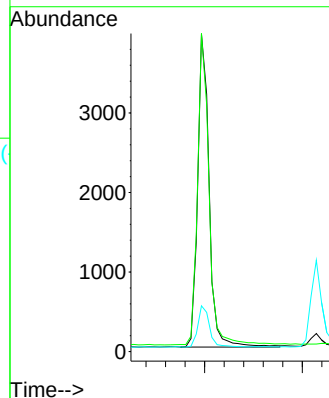
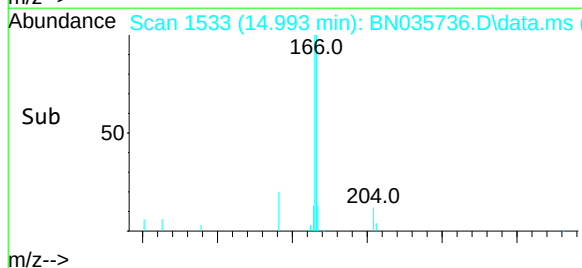
Tgt Ion:166 Resp: 6437

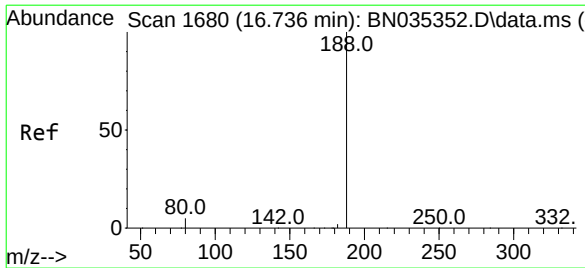
Ion Ratio Lower Upper

166 100

165 98.6 79.7 119.5

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 16

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

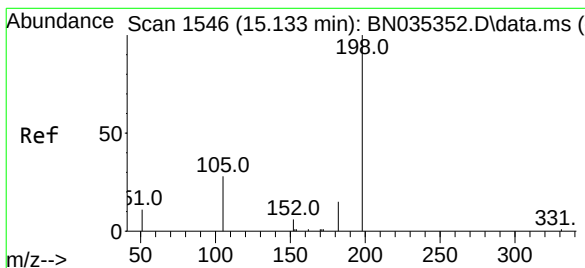
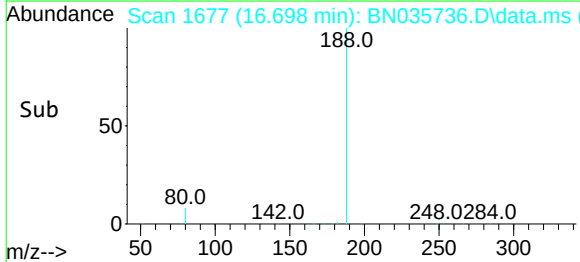
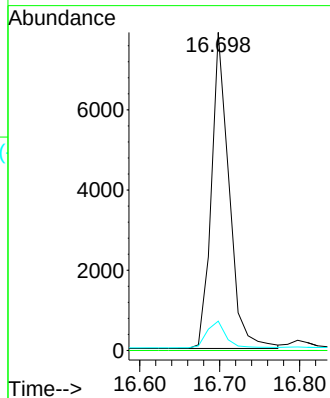
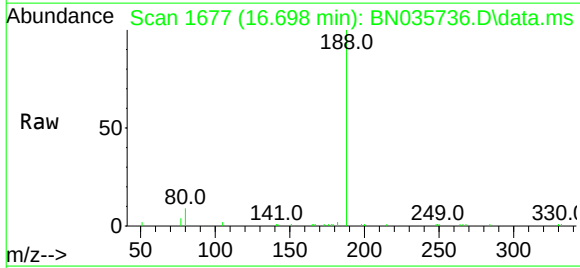
Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:	188	Resp:	12117
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 12/21/2024
Supervised By :mohammad ahmed 12/24/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.118 ng

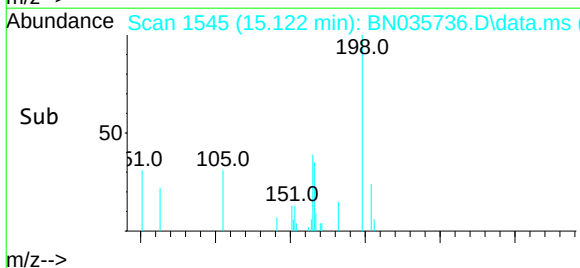
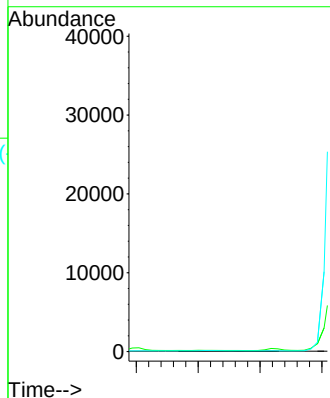
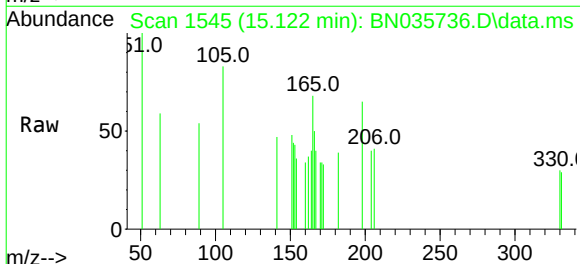
RT: 15.122 min Scan# 1545

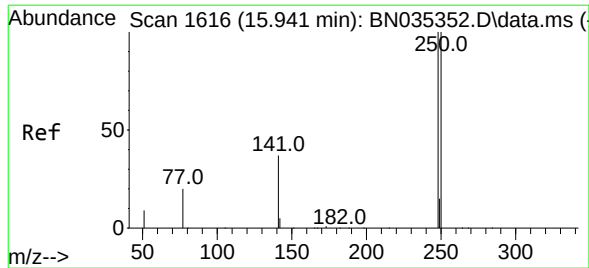
Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Tgt Ion:	198	Resp:	141
Ion Ratio	Lower	Upper	
198	100		
51	153.5	46.5	69.7#
105	127.7	45.3	67.9#





#21

4-Bromophenyl-phenylether

Concen: 0.348 ng

RT: 15.904 min Scan# 1616

Delta R.T. -0.013 min

Lab File: BN035736.D

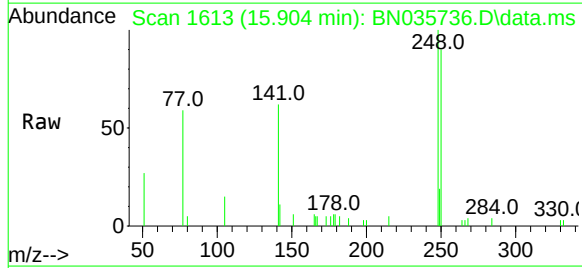
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion: 248 Resp: 2466

Ion Ratio Lower Upper

248 100

250 89.9 80.6 120.8

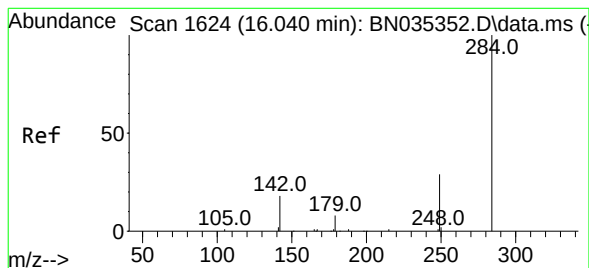
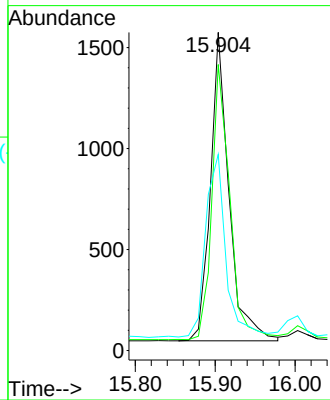
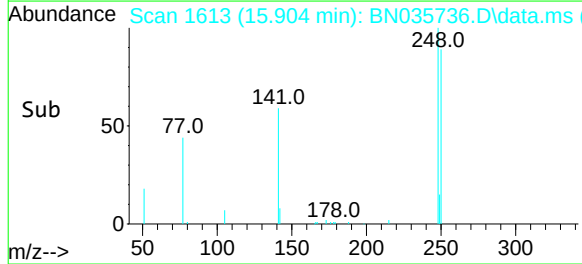
141 61.7 31.5 47.3

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 12/21/2024

Supervised By : mohammad ahmed 12/24/2024



#22

Hexachlorobenzene

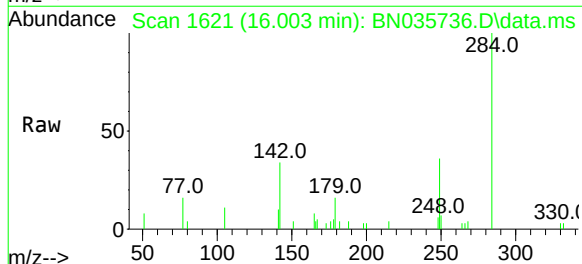
Concen: 0.333 ng

RT: 16.003 min Scan# 1621

Delta R.T. -0.013 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



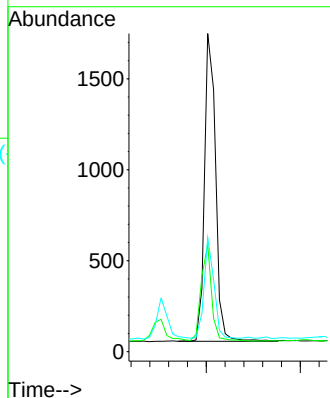
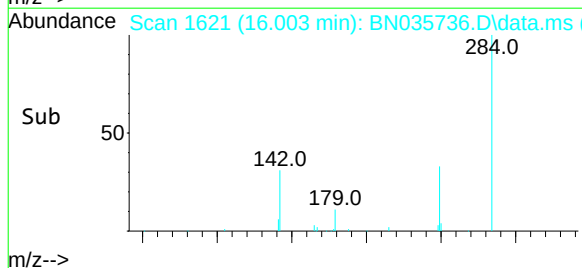
Tgt Ion: 284 Resp: 2768

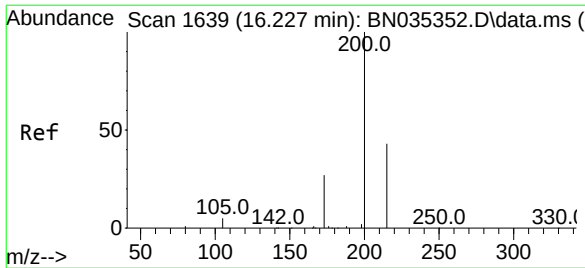
Ion Ratio Lower Upper

284 100

142 29.3 26.7 40.1

249 29.0 24.6 36.8





#23

Atrazine

Concen: 0.286 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

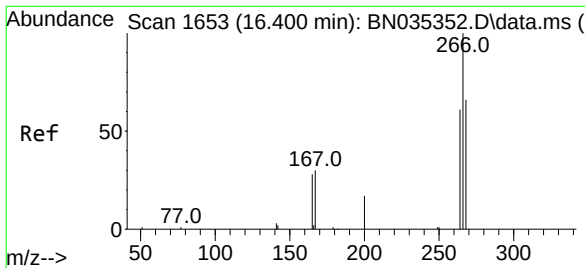
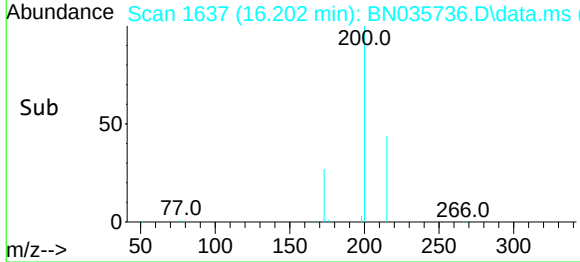
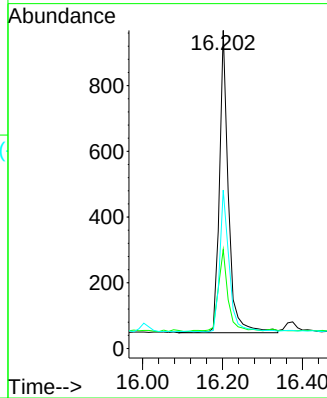
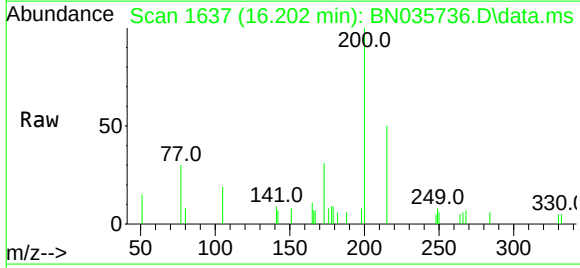
ClientSampleId :

BPOW6-11-20241212MSD

Tgt	Ion	200	Resp:	1444
Ion	Ratio	Lower	Upper	
200	100			
173	31.1	24.1	36.1	
215	49.8	36.9	55.3	

Manual Integrations
APPROVED

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



#24

Pentachlorophenol

Concen: 0.100 ng

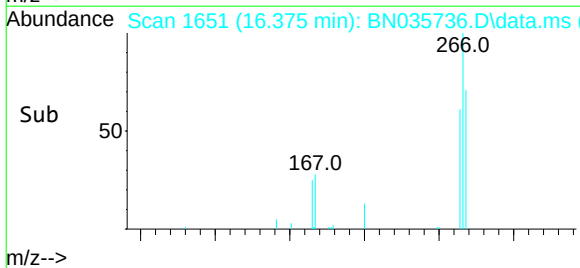
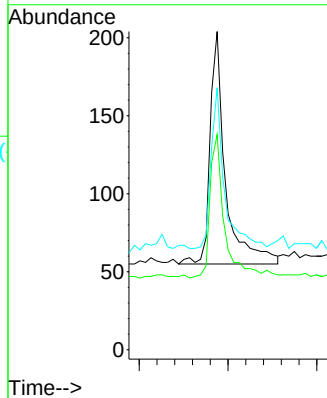
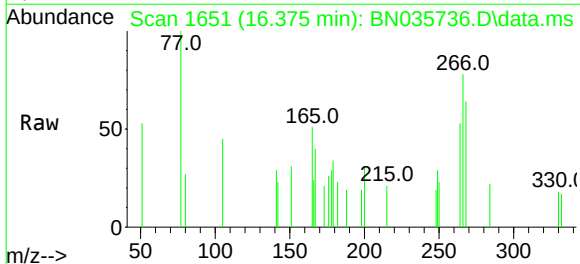
RT: 16.375 min Scan# 1651

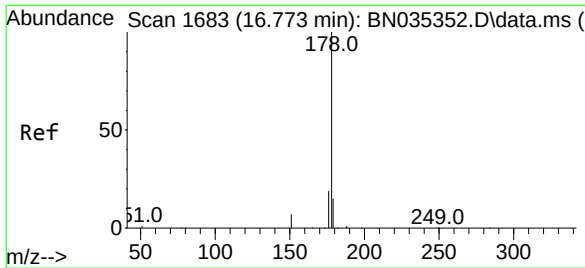
Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Tgt	Ion	266	Resp:	361
Ion	Ratio	Lower	Upper	
266	100			
264	58.7	42.3	63.5	
268	59.8	43.3	64.9	





#25

Phenanthrene

Concen: 0.354 ng

RT: 16.735 min Scan# 16

Delta R.T. -0.013 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:178 Resp: 11782

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

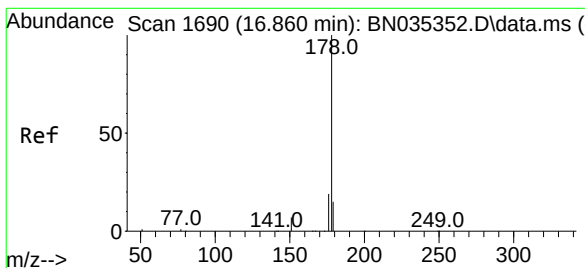
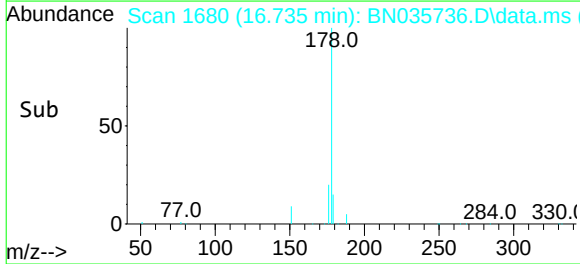
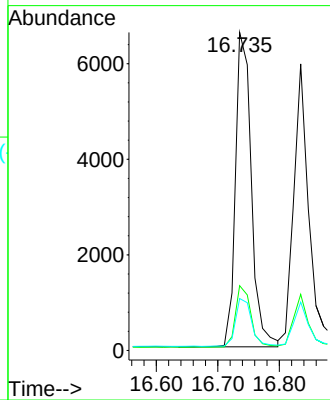
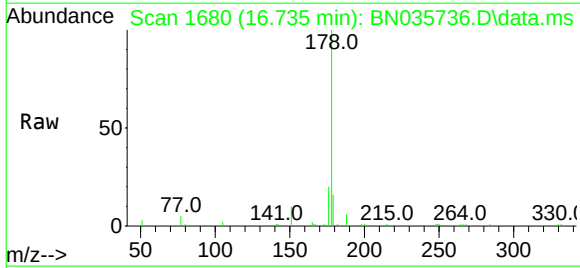
179 15.6 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#26

Anthracene

Concen: 0.338 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

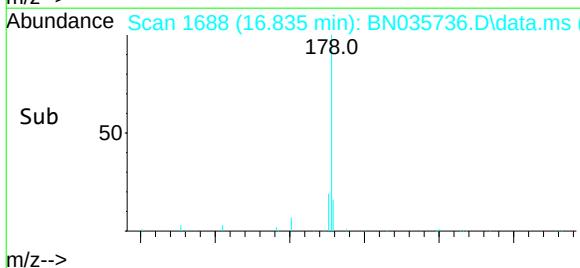
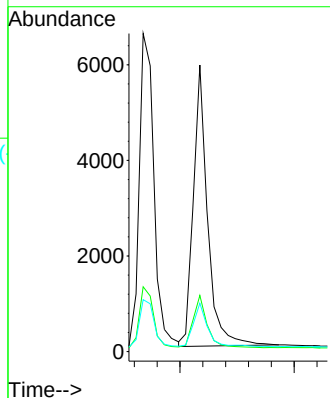
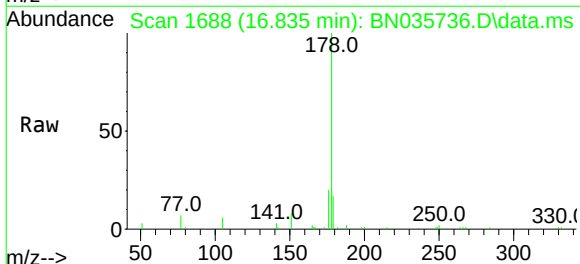
Tgt Ion:178 Resp: 10189

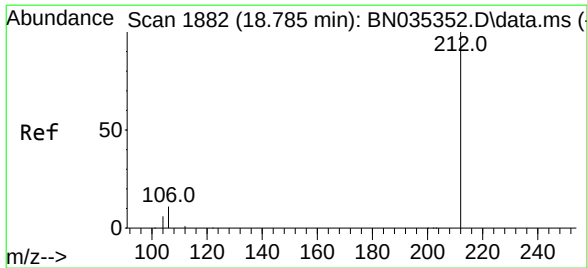
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

179 15.9 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 18.757 min Scan# 18

Delta R.T. -0.005 min

Lab File: BN035736.D

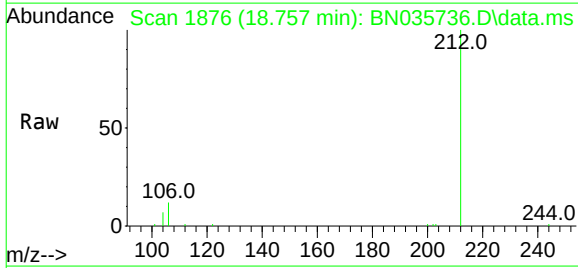
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion:212 Resp: 13288

Ion Ratio Lower Upper

212 100

106 11.1 9.2 13.8

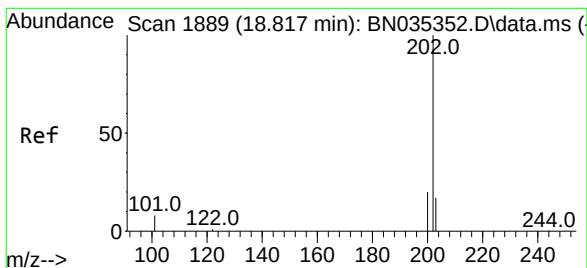
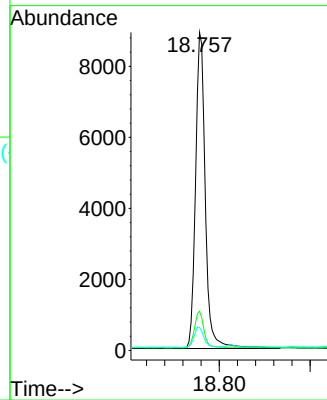
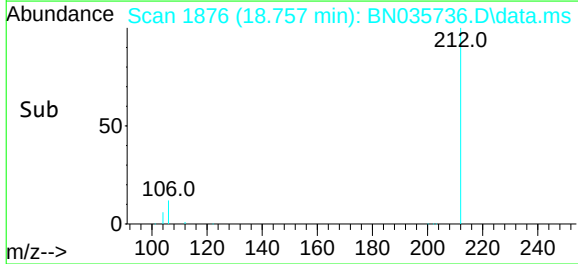
104 6.3 5.3 7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#28

Fluoranthene

Concen: 0.339 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

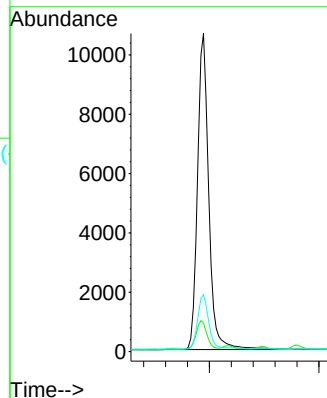
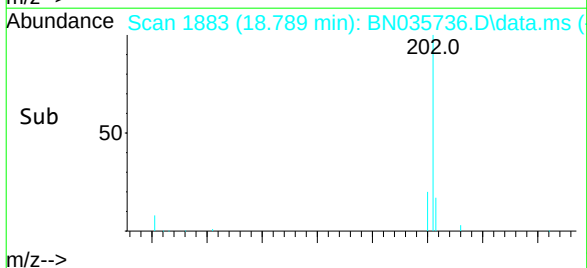
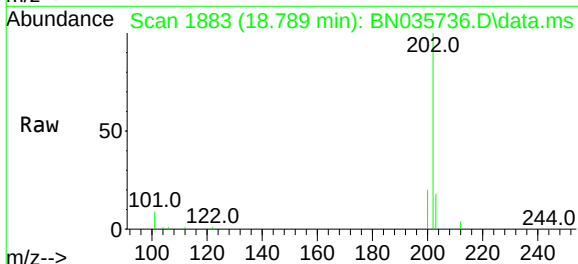
Tgt Ion:202 Resp: 15192

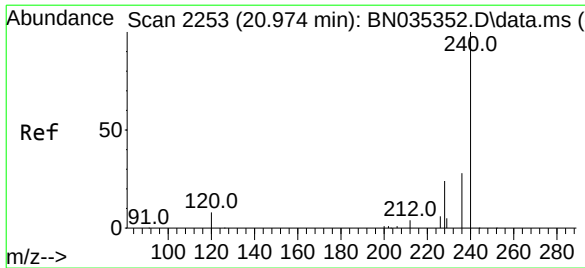
Ion Ratio Lower Upper

202 100

101 8.9 7.4 11.0

203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN035736.D

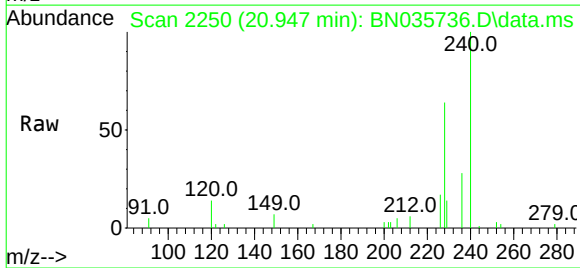
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

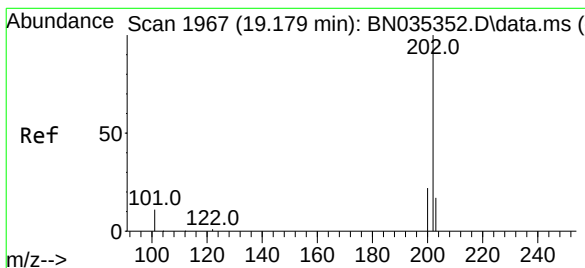
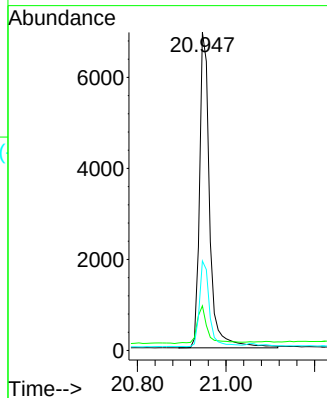
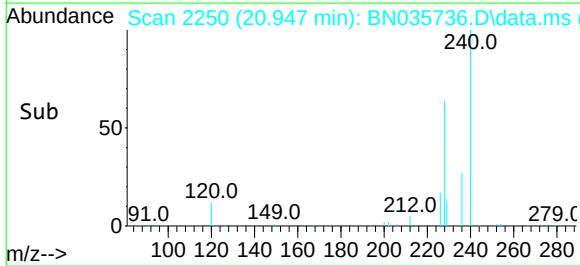
BPOW6-11-20241212MSD



Tgt Ion:	240	Resp:	11029
Ion Ratio	Lower	Upper	
240	100		
120	14.0	7.9	11.9
236	28.1	22.9	34.3

Manual Integrations
APPROVED

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



#30

Pyrene

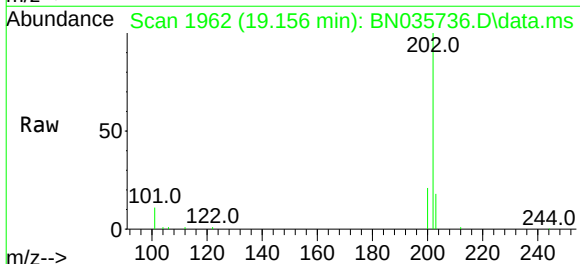
Concen: 0.391 ng

RT: 19.156 min Scan# 1962

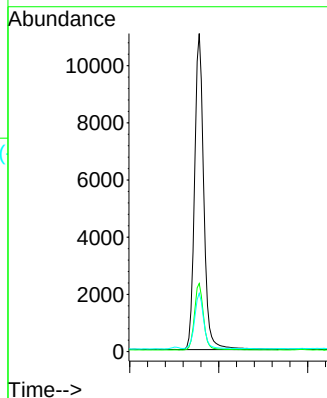
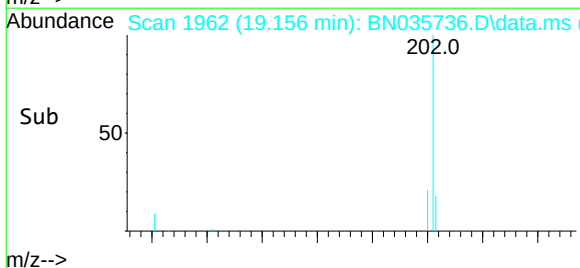
Delta R.T. -0.005 min

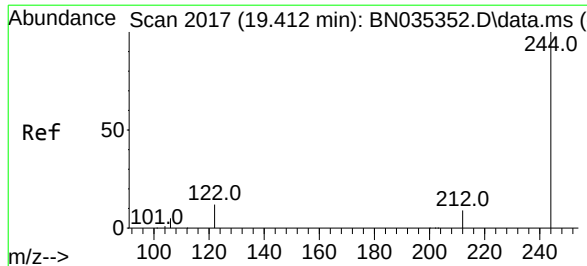
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



Tgt Ion:	202	Resp:	15901
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.0	25.4
203	17.2	14.3	21.5





#31

Terphenyl-d14

Concen: 0.486 ng

RT: 19.388 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN035736.D

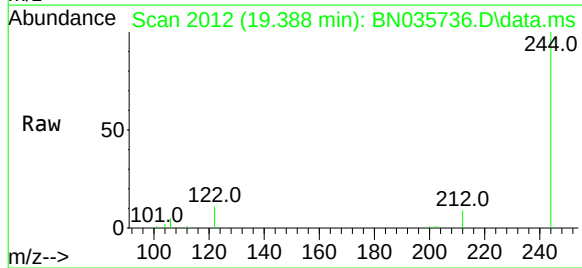
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

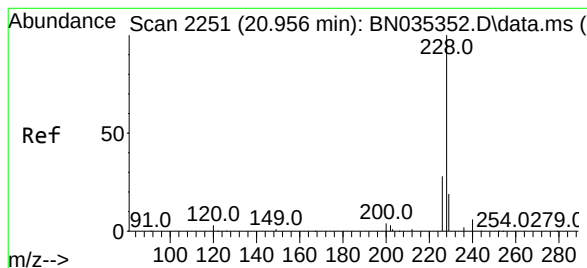
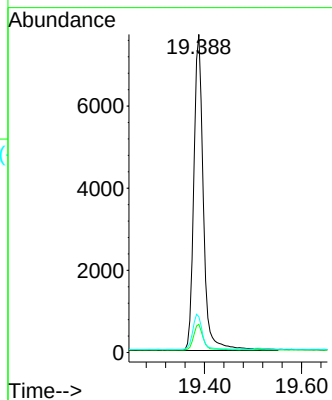
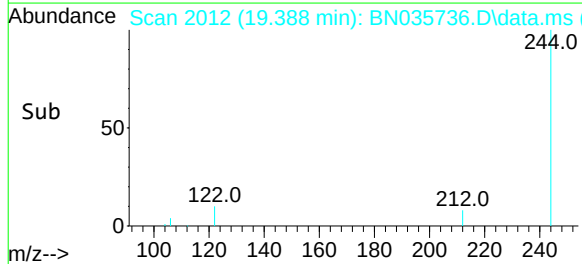
BPOW6-11-20241212MSD



Tgt Ion:	244	Resp:	10572
Ion	Ratio	Lower	Upper
244	100		
212	8.9	8.1	12.1
122	11.3	10.3	15.5

Manual Integrations
APPROVED

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



#32

Benzo(a)anthracene

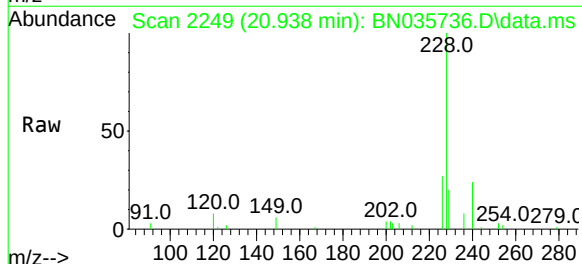
Concen: 0.350 ng

RT: 20.938 min Scan# 2249

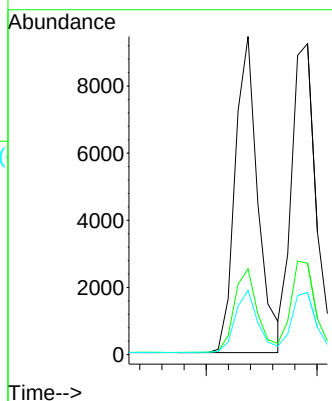
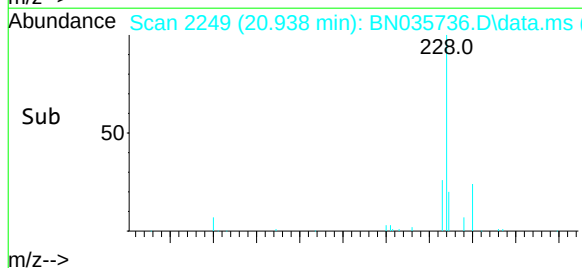
Delta R.T. -0.000 min

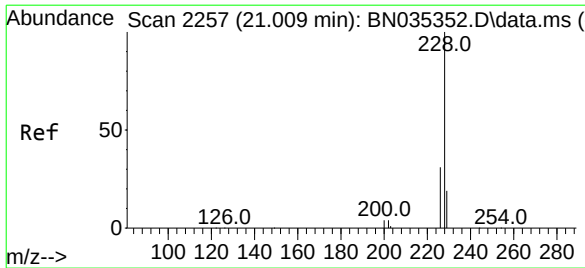
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



Tgt Ion:	228	Resp:	13511
Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.5	33.7
229	20.2	15.8	23.8





#33

Chrysene

Concen: 0.377 ng

RT: 20.991 min Scan# 2257

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

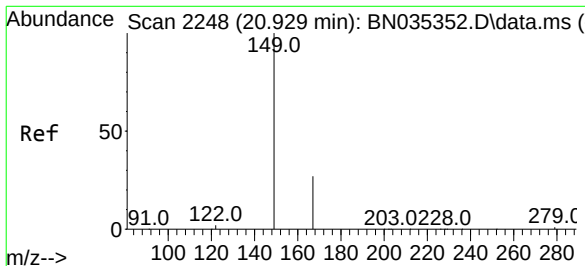
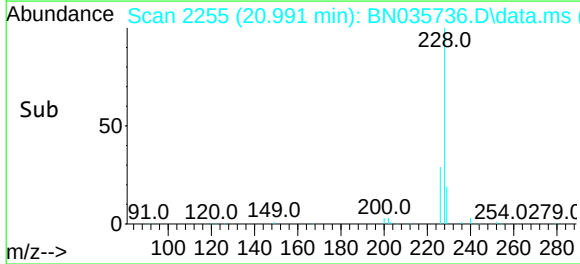
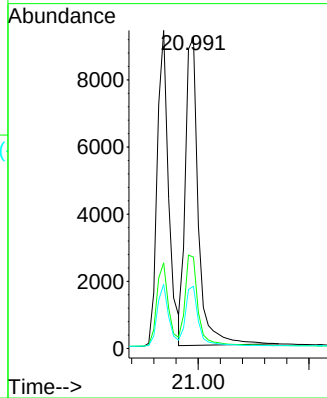
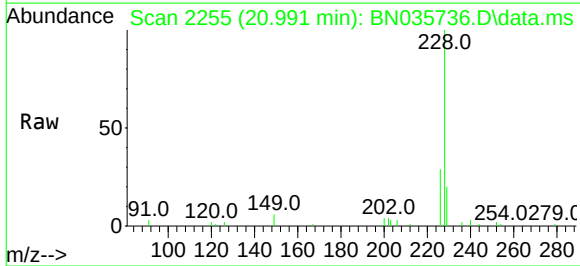
ClientSampleId :

BPOW6-11-20241212MSD

Tgt	Ion:228	Resp:	15009
Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.6	37.0
229	20.0	15.9	23.9

**Manual Integrations
APPROVED**

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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.478 ng

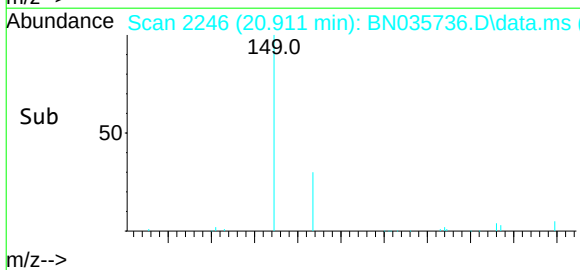
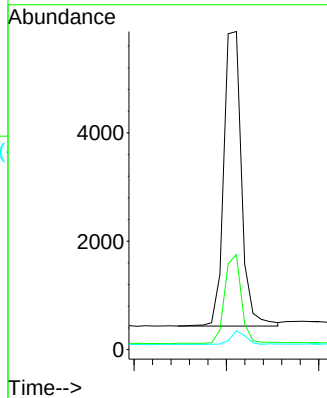
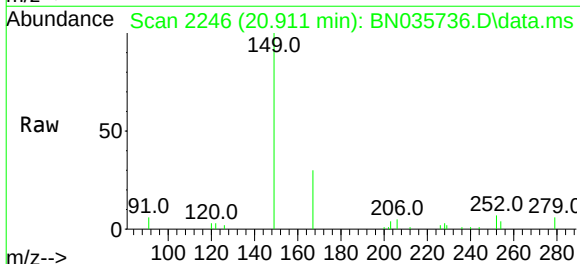
RT: 20.911 min Scan# 2246

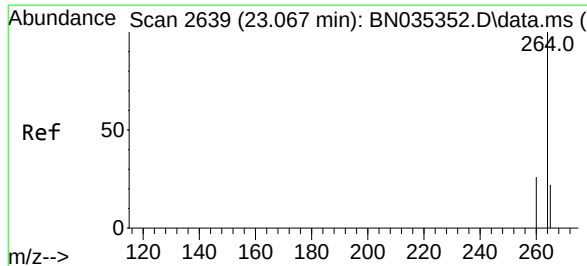
Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Tgt	Ion:149	Resp:	7279
Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.2	2.7	4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2639

Delta R.T. -0.003 min

Lab File: BN035736.D

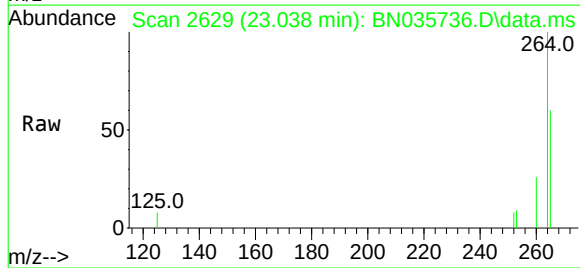
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion: 264 Resp: 11370

Ion Ratio Lower Upper

264 100

260 25.9 21.4 32.2

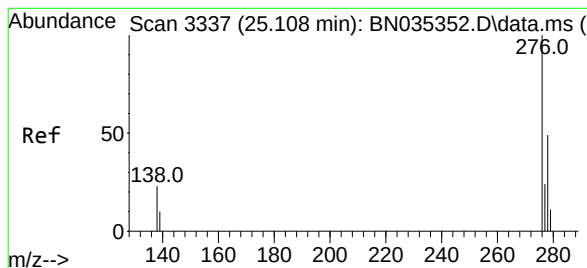
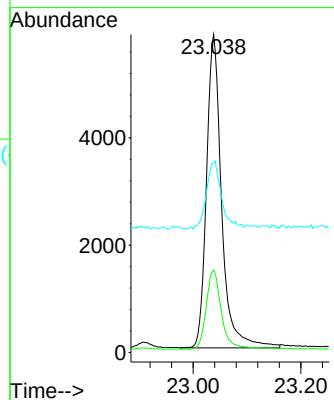
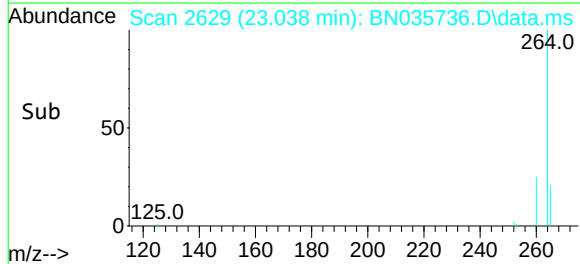
265 59.6 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#36

Indeno(1,2,3-cd)pyrene

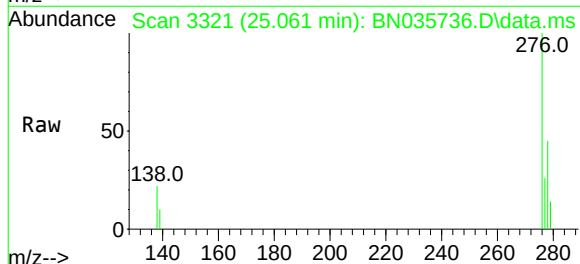
Concen: 0.335 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.006 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



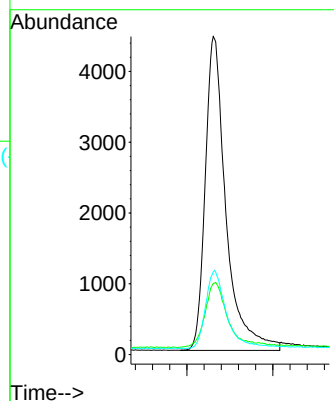
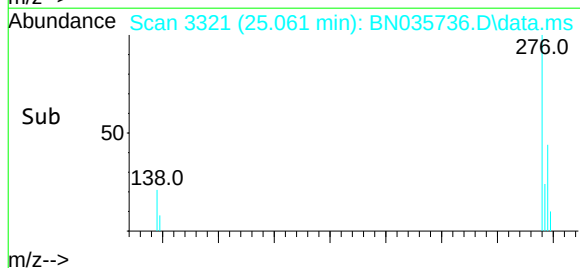
Tgt Ion: 276 Resp: 14877

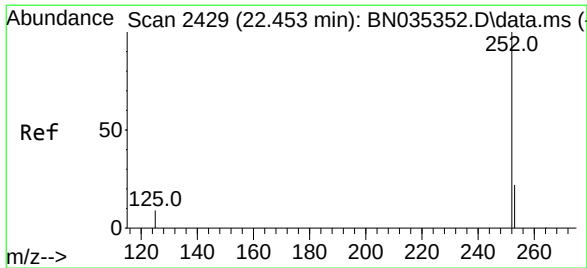
Ion Ratio Lower Upper

276 100

138 22.3 19.4 29.0

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.516 ng

RT: 22.427 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035736.D

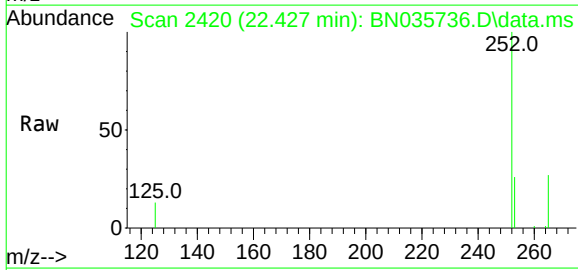
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

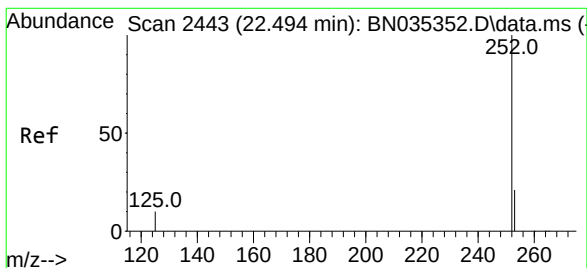
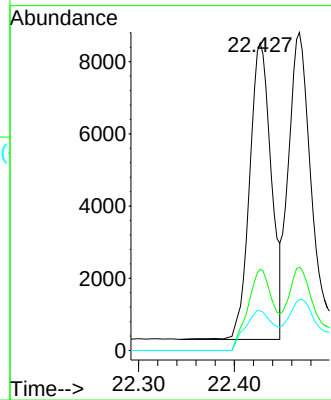
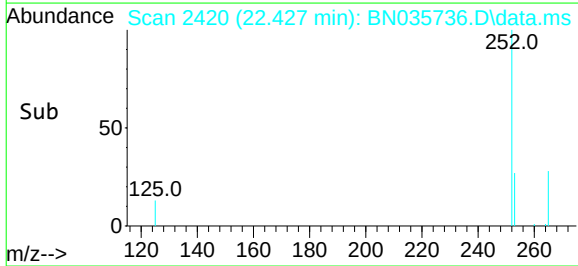
BPOW6-11-20241212MSD



Tgt	Ion	252	Resp:	21467
Ion	Ratio	Lower	Upper	
252	100			
253	26.4	19.6	29.4	
125	12.9	9.6	14.4	

Manual Integrations
APPROVED

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



#38

Benzo(k)fluoranthene

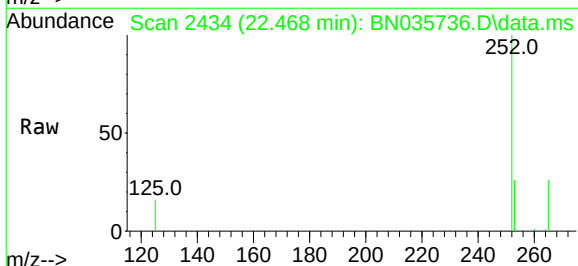
Concen: 0.371 ng m

RT: 22.468 min Scan# 2434

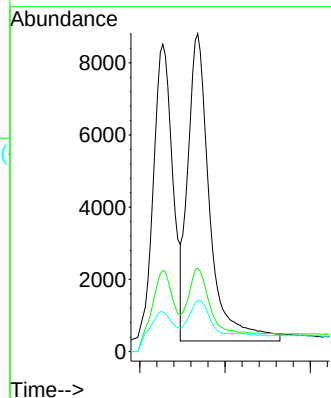
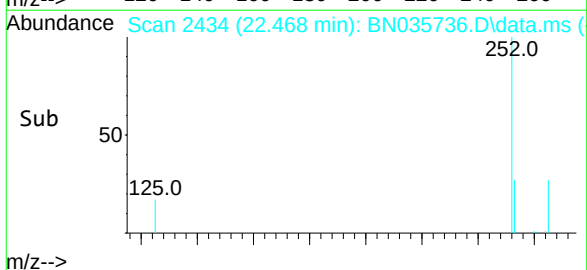
Delta R.T. -0.003 min

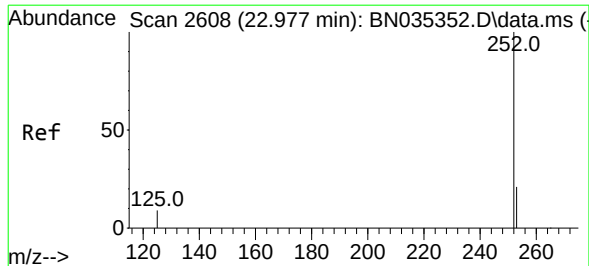
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



Tgt	Ion	252	Resp:	15196
Ion	Ratio	Lower	Upper	
252	100			
253	26.2	19.5	29.3	
125	16.0	10.2	15.4	





#39

Benzo(a)pyrene

Concen: 0.326 ng

RT: 22.950 min Scan# 25

Delta R.T. -0.000 min

Lab File: BN035736.D

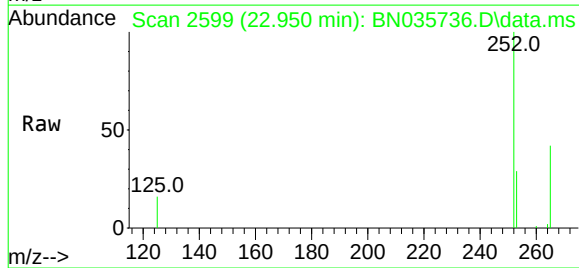
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

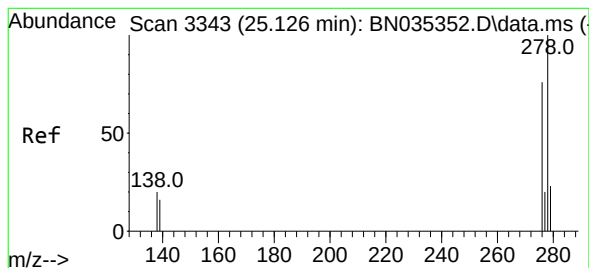
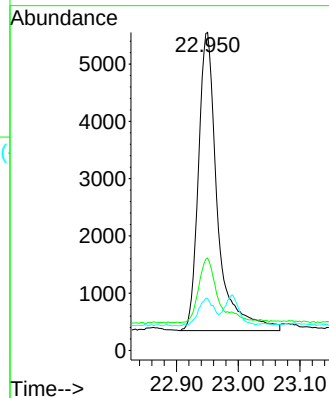
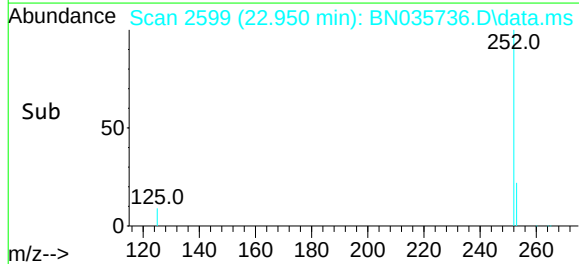
BPOW6-11-20241212MSD



Tgt Ion:	252	Resp:	11175
Ion Ratio	Lower	Upper	
252	100		
253	29.1	20.2	30.4
125	16.3	10.9	16.3

Manual Integrations
APPROVED

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



#40

Dibenzo(a,h)anthracene

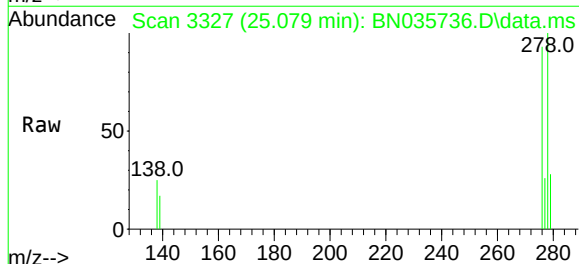
Concen: 0.327 ng

RT: 25.079 min Scan# 3327

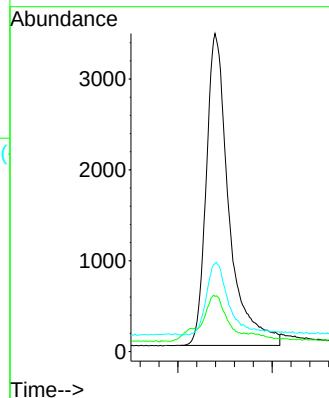
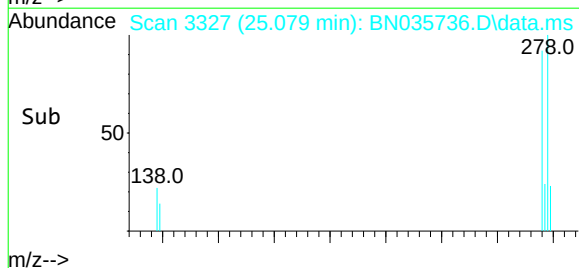
Delta R.T. -0.003 min

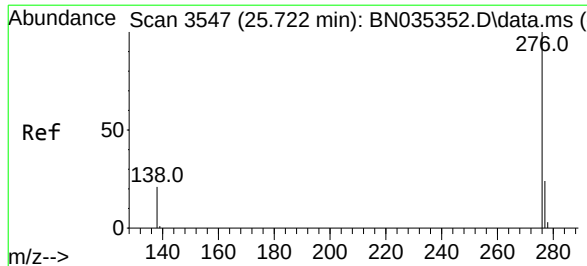
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



Tgt Ion:	278	Resp:	11466
Ion Ratio	Lower	Upper	
278	100		
139	17.3	14.2	21.4
279	27.7	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.301 ng

RT: 25.675 min Scan# 35

Delta R.T. -0.003 min

Lab File: BN035736.D

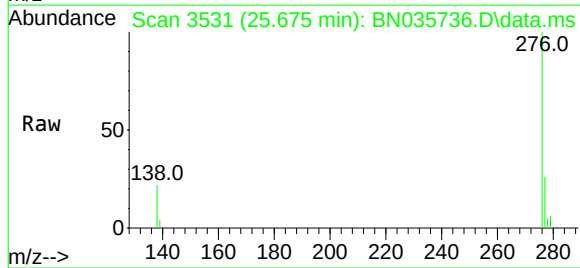
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion: 276 Resp: 11017

Ion Ratio Lower Upper

276 100

277 25.8 19.9 29.9

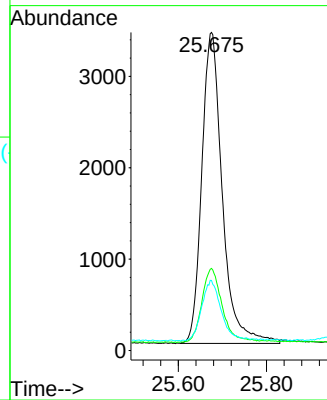
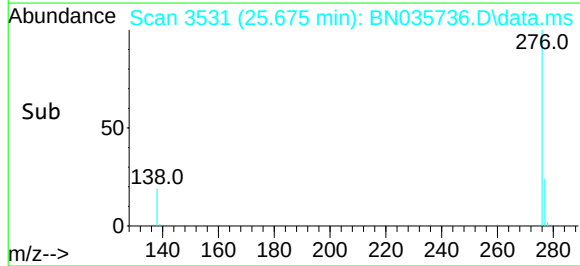
138 22.0 17.8 26.8

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 12/21/2024

Supervised By : mohammad ahmed 12/24/2024



Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035350.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.1	BN035350.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICCC0.4	BN035352.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:11 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICV0.4	BN035357.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:22 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035366.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:37 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035368.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:03 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035375.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN121924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035712.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:12:22 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035712.D	Nitrobenzene-d5	yogesh	12/21/2024 1:12:22 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035729.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:13:50 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035729.D	Nitrobenzene-d5	yogesh	12/21/2024 1:13:50 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035731.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:13:55 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035731.D	Nitrobenzene-d5	yogesh	12/21/2024 1:13:55 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-04MS	BN035735.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:14:15 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-04MS	BN035735.D	Nitrobenzene-d5	yogesh	12/21/2024 1:14:15 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-05MSD	BN035736.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:14:25 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
P5280-05MSD	BN035736.D	Nitrobenzene-d5	yogesh	12/21/2024 1:14:25 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035747.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:45:30 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035747.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:45:30 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN121924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035749.D	bis(2-Chloroethyl)ether	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035765.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:46:17 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035765.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:17 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035767.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:46:19 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035767.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:19 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035776.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035776.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
PB165667BL	BN035795.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:13 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5282-01	BN035801.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:48 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5282-02	BN035802.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:49 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5282-03	BN035803.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:51 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5282-04	BN035804.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:52 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
PB165667BS	BN035808.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:58 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035809.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:45:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN12324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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
SSTDCCC0.4	BN035828.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035828.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	1,4-Dioxane	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Fluoranthene-d10	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035843.D	Benzo(k)fluoranthene	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
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

Manual Integration Report

Sequence:	BN122624	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035845.D	Benzo(k)fluoranthene	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035845.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5282-01DL	BN035857.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:39 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 # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM
SubDirectory	BN121924	HP Acquire Method	BNA_N
		HP Processing Method	bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035711.D	19 Dec 2024 18:44	RC/JU	Ok
2	SSTDCCC0.4	BN035712.D	19 Dec 2024 19:23	RC/JU	Ok,M
3	PB165596BL	BN035713.D	19 Dec 2024 20:35	RC/JU	Ok,M
4	P5261-01	BN035714.D	19 Dec 2024 21:11	RC/JU	Ok,M
5	P5261-02	BN035715.D	19 Dec 2024 21:47	RC/JU	Ok,M
6	P5261-03	BN035716.D	19 Dec 2024 22:23	RC/JU	Ok,M
7	P5261-04	BN035717.D	19 Dec 2024 22:58	RC/JU	Dilution
8	P5261-05	BN035718.D	19 Dec 2024 23:34	RC/JU	Ok,M
9	P5261-06	BN035719.D	20 Dec 2024 00:10	RC/JU	Ok,M
10	P5261-07	BN035720.D	20 Dec 2024 00:46	RC/JU	Ok,M
11	P5261-08	BN035721.D	20 Dec 2024 01:22	RC/JU	Ok,M
12	P5261-09	BN035722.D	20 Dec 2024 01:58	RC/JU	Dilution
13	P5261-10	BN035723.D	20 Dec 2024 02:34	RC/JU	Ok,M
14	P5261-11	BN035724.D	20 Dec 2024 03:10	RC/JU	Ok,M
15	P5261-16	BN035725.D	20 Dec 2024 03:46	RC/JU	Ok,M
16	P5261-15	BN035726.D	20 Dec 2024 04:22	RC/JU	Dilution
17	P5261-17	BN035727.D	20 Dec 2024 04:58	RC/JU	Ok,M
18	PB165596BS	BN035728.D	20 Dec 2024 05:34	RC/JU	Ok,M
19	SSTDCCC0.4	BN035729.D	20 Dec 2024 06:10	RC/JU	Ok,M
20	DFTPP	BN035730.D	20 Dec 2024 07:25	RC/JU	Ok
21	SSTDCCC0.4	BN035731.D	20 Dec 2024 08:04	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM
SubDirectory	BN121924	HP Acquire Method	BNA_N
		HP Processing Method	bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB165667BL	BN035732.D	20 Dec 2024 08:40	RC/JU	Ok,M
23	P5280-03	BN035733.D	20 Dec 2024 09:16	RC/JU	Not Ok
24	P5261-12	BN035734.D	20 Dec 2024 10:29	RC/JU	Ok,M
25	P5280-04MS	BN035735.D	20 Dec 2024 11:05	RC/JU	Ok,M
26	P5280-05MSD	BN035736.D	20 Dec 2024 11:41	RC/JU	Ok,M
27	P5261-13MS	BN035737.D	20 Dec 2024 12:17	RC/JU	Ok,M
28	P5261-14MSD	BN035738.D	20 Dec 2024 12:53	RC/JU	Ok,M
29	P5261-18	BN035739.D	20 Dec 2024 13:29	RC/JU	Ok,M
30	P5261-19	BN035740.D	20 Dec 2024 14:05	RC/JU	Dilution
31	P5261-20	BN035741.D	20 Dec 2024 14:41	RC/JU	Ok,M
32	P5281-01	BN035742.D	20 Dec 2024 15:18	RC/JU	Ok,M
33	P5317-01	BN035743.D	20 Dec 2024 15:54	RC/JU	Ok,M
34	P5317-02	BN035744.D	20 Dec 2024 16:30	RC/JU	Ok,M
35	P5317-03	BN035745.D	20 Dec 2024 17:06	RC/JU	Ok,M
36	P5317-04	BN035746.D	20 Dec 2024 17:42	RC/JU	Ok,M
37	SSTDCCC0.4	BN035747.D	20 Dec 2024 18:18	RC/JU	Ok,M
38	DFTPP	BN035748.D	20 Dec 2024 18:54	RC/JU	Ok
39	SSTDCCC0.4	BN035749.D	20 Dec 2024 19:33	RC/JU	Ok,M
40	PB165723BL	BN035750.D	20 Dec 2024 20:09	RC/JU	Ok,M
41	P5317-05	BN035751.D	20 Dec 2024 20:45	RC/JU	Ok,M
42	P5261-09DL	BN035752.D	20 Dec 2024 21:21	RC/JU	Ok,M
43	P5261-15DL	BN035753.D	20 Dec 2024 21:57	RC/JU	Ok,M
44	P5261-04DL	BN035754.D	20 Dec 2024 22:33	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657			
CCC		SP6661			
Internal Standard/PEM		SP6527,1ul/100ul sample			
ICV/I.BLK		SP6684			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

45	P5317-09	BN035755.D	20 Dec 2024 23:09	RC/JU	Ok,M
46	P5317-10	BN035756.D	20 Dec 2024 23:45	RC/JU	Ok,M
47	P5317-11	BN035757.D	21 Dec 2024 00:21	RC/JU	Ok,M
48	P5317-12	BN035758.D	21 Dec 2024 00:57	RC/JU	Ok,M
49	P5317-08	BN035759.D	21 Dec 2024 01:34	RC/JU	Ok,M
50	P5317-13	BN035760.D	21 Dec 2024 02:10	RC/JU	Ok,M
51	P5317-14	BN035761.D	21 Dec 2024 02:46	RC/JU	Ok,M
52	P5284-02	BN035762.D	21 Dec 2024 03:22	RC/JU	Ok,M
53	P5284-03	BN035763.D	21 Dec 2024 03:58	RC/JU	Ok,M
54	PB165724BS	BN035764.D	21 Dec 2024 04:34	RC/JU	Ok,M
55	SSTDCCC0.4	BN035765.D	21 Dec 2024 05:10	RC/JU	Ok,M
56	DFTPP	BN035766.D	21 Dec 2024 05:46	RC/JU	Ok
57	SSTDCCC0.4	BN035767.D	21 Dec 2024 06:25	RC/JU	Ok,M
58	PB165596BL	BN035768.D	21 Dec 2024 07:01	RC/JU	Not Ok
59	P5281-04	BN035769.D	21 Dec 2024 07:37	RC/JU	Not Ok
60	P5317-15	BN035770.D	21 Dec 2024 08:13	RC/JU	Not Ok
61	P5317-16	BN035771.D	21 Dec 2024 08:49	RC/JU	Not Ok
62	P5317-17	BN035772.D	21 Dec 2024 09:25	RC/JU	Not Ok
63	P5317-18	BN035773.D	21 Dec 2024 10:01	RC/JU	Not Ok
64	P5317-19MS	BN035774.D	21 Dec 2024 10:37	RC/JU	Not Ok

M : Manual Integration

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	Ok,M
58	P5376-15	BN035832.D	24 Dec 2024 22:42	RC/JU	ReRun
59	P5376-16	BN035833.D	24 Dec 2024 23:18	RC/JU	Ok,M
60	P5376-17	BN035834.D	24 Dec 2024 23:53	RC/JU	Ok,M
61	P5376-18	BN035835.D	25 Dec 2024 00:29	RC/JU	Ok,M
62	P5376-19	BN035836.D	25 Dec 2024 01:05	RC/JU	ReRun
63	P5376-20	BN035837.D	25 Dec 2024 01:40	RC/JU	Ok,M
64	P5376-01	BN035838.D	25 Dec 2024 02:16	RC/JU	ReRun
65	PB165723BS	BN035839.D	25 Dec 2024 02:51	RC/JU	Not Ok
66	PB165724BSD	BN035840.D	25 Dec 2024 03:27	RC/JU	Not Ok
67	PB165828BS	BN035841.D	25 Dec 2024 04:03	RC/JU	Not Ok

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	PB165828BL	BN035846.D	26 Dec 2024 10:35	RC/JU	Ok,M
4	P5376-15	BN035847.D	26 Dec 2024 11:20	RC/JU	Ok,M
5	P5376-19	BN035848.D	26 Dec 2024 11:56	RC/JU	Ok,M
6	P5376-01	BN035849.D	26 Dec 2024 12:31	RC/JU	Ok,M
7	P5374-03	BN035850.D	26 Dec 2024 13:07	RC/JU	Ok,M
8	PB165723BS	BN035851.D	26 Dec 2024 13:43	RC/JU	Ok,M
9	PB165828BS	BN035852.D	26 Dec 2024 14:19	RC/JU	Ok,M
10	PB165724BSD	BN035853.D	26 Dec 2024 14:54	RC/JU	Ok,M
11	P5376-03DL	BN035854.D	26 Dec 2024 15:30	RC/JU	Ok,M
12	P5317-21DL	BN035855.D	26 Dec 2024 16:06	RC/JU	Ok,M
13	P5281-07DL	BN035856.D	26 Dec 2024 16:42	RC/JU	Ok,M
14	P5282-01DL	BN035857.D	26 Dec 2024 17:18	RC/JU	Ok,M
15	P5281-06DL	BN035858.D	26 Dec 2024 17:53	RC/JU	Ok,M
16	P5284-01DL	BN035859.D	26 Dec 2024 18:29	RC/JU	Ok,M
17	P5261-19DL	BN035860.D	26 Dec 2024 19:05	RC/JU	Ok,M
18	SSTDCCC0.4	BN035861.D	26 Dec 2024 19:41	RC/JU	Ok,M

M : Manual Integration

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 # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM
SubDirectory	BN121924	HP Acquire Method	BNA_N
		HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035711.D	19 Dec 2024 18:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035712.D	19 Dec 2024 19:23		RC/JU	Ok,M
3	PB165596BL	PB165596BL	BN035713.D	19 Dec 2024 20:35		RC/JU	Ok,M
4	P5261-01	RE122D1-20241209	BN035714.D	19 Dec 2024 21:11		RC/JU	Ok,M
5	P5261-02	RE122D2-20241209	BN035715.D	19 Dec 2024 21:47		RC/JU	Ok,M
6	P5261-03	RE122D3-20241209	BN035716.D	19 Dec 2024 22:23		RC/JU	Ok,M
7	P5261-04	RE103D1-20241209	BN035717.D	19 Dec 2024 22:58	Need 2X Dilution	RC/JU	Dilution
8	P5261-05	RE103D2-20241209	BN035718.D	19 Dec 2024 23:34		RC/JU	Ok,M
9	P5261-06	RE103D3-20241209	BN035719.D	20 Dec 2024 00:10		RC/JU	Ok,M
10	P5261-07	RE134D1-20241209	BN035720.D	20 Dec 2024 00:46		RC/JU	Ok,M
11	P5261-08	DUP-01-20241209	BN035721.D	20 Dec 2024 01:22		RC/JU	Ok,M
12	P5261-09	RE134D3-20241210	BN035722.D	20 Dec 2024 01:58	Need 2X Dilution	RC/JU	Dilution
13	P5261-10	RE134D4-20241210	BN035723.D	20 Dec 2024 02:34		RC/JU	Ok,M
14	P5261-11	GM3-RW3-MW1-20241210	BN035724.D	20 Dec 2024 03:10		RC/JU	Ok,M
15	P5261-16	RE125D3-20241210	BN035725.D	20 Dec 2024 03:46		RC/JU	Ok,M
16	P5261-15	RE125D2-20241210	BN035726.D	20 Dec 2024 04:22	Need 2X Dilution	RC/JU	Dilution
17	P5261-17	RE120D1-20241210	BN035727.D	20 Dec 2024 04:58		RC/JU	Ok,M
18	PB165596BS	PB165596BS	BN035728.D	20 Dec 2024 05:34		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724
STD. NAME	STD REF.#				
Tune/Reschk	SP6573				
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657				
CCC	SP6661				
Internal Standard/PEM	SP6527,1ul/100ul sample				
ICV/I.BLK	SP6684				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	SSTDCCC0.4	SSTDCCC0.4EC	BN035729.D	20 Dec 2024 06:10		RC/JU	Ok,M
20	DFTPP	DFTPP	BN035730.D	20 Dec 2024 07:25		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN035731.D	20 Dec 2024 08:04		RC/JU	Ok,M
22	PB165667BL	PB165667BL	BN035732.D	20 Dec 2024 08:40		RC/JU	Ok,M
23	P5280-03	BPOW6-11-20241212	BN035733.D	20 Dec 2024 09:16	Test not Present on Login Page	RC/JU	Not Ok
24	P5261-12	RE125D1-20241210	BN035734.D	20 Dec 2024 10:29		RC/JU	Ok,M
25	P5280-04MS	BPOW6-11-20241212M	BN035735.D	20 Dec 2024 11:05		RC/JU	Ok,M
26	P5280-05MSD	BPOW6-11-20241212M	BN035736.D	20 Dec 2024 11:41		RC/JU	Ok,M
27	P5261-13MS	RE125D1-20241210MS	BN035737.D	20 Dec 2024 12:17		RC/JU	Ok,M
28	P5261-14MSD	RE125D1-20241210MS	BN035738.D	20 Dec 2024 12:53		RC/JU	Ok,M
29	P5261-18	RE120D2-20241210	BN035739.D	20 Dec 2024 13:29		RC/JU	Ok,M
30	P5261-19	RE120D3-20241210	BN035740.D	20 Dec 2024 14:05	Need 5X Dilution	RC/JU	Dilution
31	P5261-20	DUP-02-20241210	BN035741.D	20 Dec 2024 14:41		RC/JU	Ok,M
32	P5281-01	RE114D1-20241212	BN035742.D	20 Dec 2024 15:18		RC/JU	Ok,M
33	P5317-01	RE114D2-20241216	BN035743.D	20 Dec 2024 15:54		RC/JU	Ok,M
34	P5317-02	RW4-20241216	BN035744.D	20 Dec 2024 16:30		RC/JU	Ok,M
35	P5317-03	TT191D1-20241216	BN035745.D	20 Dec 2024 17:06		RC/JU	Ok,M
36	P5317-04	TT191D2-20241216	BN035746.D	20 Dec 2024 17:42		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN035747.D	20 Dec 2024 18:18		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724
STD. NAME	STD REF.#				
Tune/Reschk	SP6573				
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657				
CCC	SP6661				
Internal Standard/PEM	SP6527,1ul/100ul sample				
ICV/I.BLK	SP6684				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

38	DFTPP	DFTPP	BN035748.D	20 Dec 2024 18:54		RC/JU	Ok
39	SSTDCCC0.4	SSTDCCC0.4	BN035749.D	20 Dec 2024 19:33		RC/JU	Ok,M
40	PB165723BL	PB165723BL	BN035750.D	20 Dec 2024 20:09		RC/JU	Ok,M
41	P5317-05	TT163S1-20241216	BN035751.D	20 Dec 2024 20:45		RC/JU	Ok,M
42	P5261-09DL	RE134D3-20241210DL	BN035752.D	20 Dec 2024 21:21		RC/JU	Ok,M
43	P5261-15DL	RE125D2-20241210DL	BN035753.D	20 Dec 2024 21:57		RC/JU	Ok,M
44	P5261-04DL	RE103D1-20241209DL	BN035754.D	20 Dec 2024 22:33		RC/JU	Ok,M
45	P5317-09	TT158S1-20241217	BN035755.D	20 Dec 2024 23:09		RC/JU	Ok,M
46	P5317-10	TT158I1-20241217	BN035756.D	20 Dec 2024 23:45		RC/JU	Ok,M
47	P5317-11	DUP-05-20241217	BN035757.D	21 Dec 2024 00:21		RC/JU	Ok,M
48	P5317-12	TT172S1-20241217	BN035758.D	21 Dec 2024 00:57		RC/JU	Ok,M
49	P5317-08	RW8-MW01D1-202412	BN035759.D	21 Dec 2024 01:34		RC/JU	Ok,M
50	P5317-13	RW9-MW01S-2024121	BN035760.D	21 Dec 2024 02:10		RC/JU	Ok,M
51	P5317-14	RW9-MW01D1-202412	BN035761.D	21 Dec 2024 02:46		RC/JU	Ok,M
52	P5284-02	RW5-SP201-20241212	BN035762.D	21 Dec 2024 03:22		RC/JU	Ok,M
53	P5284-03	RW5-SP303-20241212	BN035763.D	21 Dec 2024 03:58		RC/JU	Ok,M
54	PB165724BS	PB165724BS	BN035764.D	21 Dec 2024 04:34		RC/JU	Ok,M
55	SSTDCCC0.4	SSTDCCC0.4EC	BN035765.D	21 Dec 2024 05:10		RC/JU	Ok,M
56	DFTPP	DFTPP	BN035766.D	21 Dec 2024 05:46		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724
STD. NAME	STD REF.#				
Tune/Reschk	SP6573				
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657				
CCC	SP6661				
Internal Standard/PEM	SP6527,1ul/100ul sample				
ICV/I.BLK	SP6684				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

57	SSTDCCC0.4	SSTDCCC0.4	BN035767.D	21 Dec 2024 06:25		RC/JU	Ok,M
58	PB165596BL	PB165596BL	BN035768.D	21 Dec 2024 07:01	END CCC Missing	RC/JU	Not Ok
59	P5281-04	TT101D2-20241212	BN035769.D	21 Dec 2024 07:37	END CCC Missing, Need 2X Dilution	RC/JU	Not Ok
60	P5317-15	RW9-MW01D2-202412	BN035770.D	21 Dec 2024 08:13	END CCC Missing	RC/JU	Not Ok
61	P5317-16	RW9-MW01D3-202412	BN035771.D	21 Dec 2024 08:49	END CCC Missing	RC/JU	Not Ok
62	P5317-17	DUP-06-20241217	BN035772.D	21 Dec 2024 09:25	END CCC Missing	RC/JU	Not Ok
63	P5317-18	RE132D5-20241217	BN035773.D	21 Dec 2024 10:01	END CCC Missing, Need 2X Dilution	RC/JU	Not Ok
64	P5317-19MS	RE132D5-20241217MS	BN035774.D	21 Dec 2024 10:37	Internal Standard Fail, END CCC Missing	RC/JU	Not Ok

M : Manual Integration

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	TT174I1-20241218	BN035819.D	24 Dec 2024 13:44		RC/JU	Ok,M
46	P5376-07	RW10-MW01S-202412	BN035820.D	24 Dec 2024 14:19		RC/JU	Ok,M
47	P5376-08MS	RW10-MW01S-202412	BN035821.D	24 Dec 2024 14:55		RC/JU	Ok,M
48	P5376-09MSD	RW10-MW01S-202412	BN035822.D	24 Dec 2024 15:31		RC/JU	Ok,M
49	P5376-10	RW10-MW01D-202412	BN035823.D	24 Dec 2024 16:06		RC/JU	Ok,M
50	P5376-11	RW10A-MW01S-20241	BN035824.D	24 Dec 2024 16:42		RC/JU	Ok,M
51	P5376-12	RW10A-MW01I-202412	BN035825.D	24 Dec 2024 17:18		RC/JU	Ok,M
52	P5376-13	RE117D2-20241218	BN035826.D	24 Dec 2024 17:53		RC/JU	Ok,M
53	P5376-14	TT161S1-20241219	BN035827.D	24 Dec 2024 18:29		RC/JU	Ok,M
54	SSTDCCC0.4	SSTDCCC0.4EC	BN035828.D	24 Dec 2024 19:05		RC/JU	Ok,M
55	DFTPP	DFTPP	BN035829.D	24 Dec 2024 19:41		RC/JU	Ok

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	Ok,M
58	P5376-15	TT162S1-20241219	BN035832.D	24 Dec 2024 22:42	CCC Fail high for Com#2	RC/JU	ReRun
59	P5376-16	RW11-MW01S-202412	BN035833.D	24 Dec 2024 23:18		RC/JU	Ok,M
60	P5376-17	RW11-MW01I-2024121	BN035834.D	24 Dec 2024 23:53		RC/JU	Ok,M
61	P5376-18	TT119S1-20241219	BN035835.D	25 Dec 2024 00:29		RC/JU	Ok,M
62	P5376-19	TT188S1-20241219	BN035836.D	25 Dec 2024 01:05	CCC Fail high for Com#2	RC/JU	ReRun
63	P5376-20	FB03-20241219	BN035837.D	25 Dec 2024 01:40		RC/JU	Ok,M
64	P5376-01	TT205S1-20241218	BN035838.D	25 Dec 2024 02:16	CCC Fail high for Com#2	RC/JU	ReRun
65	PB165723BS	PB165723BS	BN035839.D	25 Dec 2024 02:51	CCC Fail high for Com#2	RC/JU	Not Ok
66	PB165724BSD	PB165724BSD	BN035840.D	25 Dec 2024 03:27	CCC Fail high for Com#2	RC/JU	Not Ok
67	PB165828BS	PB165828BS	BN035841.D	25 Dec 2024 04:03	CCC Fail high for Com#2	RC/JU	Not Ok
68	P5374-03	BP-VPB-190A-GW-718	BN035842.D	25 Dec 2024 04:38	CCC Fail high for Com#2	RC/JU	ReRun
69	SSTDCCC0.4	SSTDCCC0.4EC	BN035843.D	25 Dec 2024 05:14		RC/JU	Ok,M

M : Manual Integration

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	PB165828BL	PB165828BL	BN035846.D	26 Dec 2024 10:35		RC/JU	Ok,M
4	P5376-15	TT162S1-20241219	BN035847.D	26 Dec 2024 11:20		RC/JU	Ok,M
5	P5376-19	TT188S1-20241219	BN035848.D	26 Dec 2024 11:56		RC/JU	Ok,M
6	P5376-01	TT205S1-20241218	BN035849.D	26 Dec 2024 12:31		RC/JU	Ok,M
7	P5374-03	BP-VPB-190A-GW-718	BN035850.D	26 Dec 2024 13:07		RC/JU	Ok,M
8	PB165723BS	PB165723BS	BN035851.D	26 Dec 2024 13:43		RC/JU	Ok,M
9	PB165828BS	PB165828BS	BN035852.D	26 Dec 2024 14:19		RC/JU	Ok,M
10	PB165724BSD	PB165724BSD	BN035853.D	26 Dec 2024 14:54		RC/JU	Ok,M
11	P5376-03DL	RE115D2-20241218DL	BN035854.D	26 Dec 2024 15:30		RC/JU	Ok,M
12	P5317-21DL	RE132D6-20241217DL	BN035855.D	26 Dec 2024 16:06		RC/JU	Ok,M
13	P5281-07DL	TT189D2-20241213DL	BN035856.D	26 Dec 2024 16:42		RC/JU	Ok,M
14	P5282-01DL	RW7-SP100-20241212	BN035857.D	26 Dec 2024 17:18		RC/JU	Ok,M
15	P5281-06DL	RE115D1-20241213DL	BN035858.D	26 Dec 2024 17:53		RC/JU	Ok,M
16	P5284-01DL	RW5-SP100-20241212	BN035859.D	26 Dec 2024 18:29		RC/JU	Ok,M
17	P5261-19DL	RE120D3-20241210DL	BN035860.D	26 Dec 2024 19:05		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN035861.D	26 Dec 2024 19:41		RC/JU	Ok,M

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

Extraction Start Date : 12/16/2024

Matrix : Water

Extraction Start Time : 11:30

Weigh By: N/A

Extraction By: RS

Extraction End Date : 12/16/2024

Balance check: N/A

Filter By: RS

Extraction End Time : 16:30

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3574

Hood ID: 4,5,6,7

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard 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

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/16/24	RP (Sat. Lab)	Rdsvoc
16:35	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/16/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165667BL	SBLK667	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-01
PB165667BS	SLCS667	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
P5280-01	BPOW6-7-20241212	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		3
P5280-02	BPOW6-8-20241212	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		4
P5280-03	BPOW6-11-20241212	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	C		5
P5280-04	P5280-03MS	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		6
P5280-05	P5280-03MSD	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		7
P5280-08	DUP-03-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		8
P5281-01	RE114D1-202412	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		9
P5281-02	BPOW1-7-202412	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		10
P5281-03	BPOW1-8-202412	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		11
P5281-04	TT101D2-202412	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		12
P5281-05	RE117D1-202413	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		13
P5281-06	RE115D1-202413	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		14
P5281-07	TT189D2-202413	SVOC-SIMGrou p1	880	6	RUPESH	ritesh	1	C		15
P5281-08	FB02-20241213	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		16
P5282-01	RW7-SP100-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-01
P5282-02	RW7-SP201-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
P5282-03	RW7-SP302-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
P5282-04	RW7-SP303-20241212	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1			4
P5284-01	RW5-SP100-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
P5284-02	RW5-SP201-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			6
P5284-03	RW5-SP100-20241212	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			7

* Extracts relinquished on the same date as received.



11:30
165601

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5280

WorkList ID : 186371

Department : Extraction

Date : 12-16-2024 11:25:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5280-01	BPOW6-7-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-02	BPOW6-8-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-03	BPOW6-11-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-04	P5280-03MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-05	P5280-03MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5280-08	DUP-03-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L51	12/12/2024	8270-Modified
P5281-01	RE114D1-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-02	BPOW1-7-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-03	BPOW1-8-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-04	TT101D2-202412	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/12/2024	8270-Modified
P5281-05	RE117D1-202413	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5281-06	RE115D1-202413	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5281-07	TT189D2-202413	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5281-08	FB02-20241213	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/13/2024	8270-Modified
P5282-01	RW7-SP100-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5282-02	RW7-SP201-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5282-03	RW7-SP302-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5282-04	RW7-SP303-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L21	12/12/2024	8270-Modified
P5284-01	RW5-SP100-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/12/2024	8270-Modified
P5284-02	RW5-SP201-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/12/2024	8270-Modified
P5284-03	RW5-SP100-20241212	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/12/2024	8270-Modified

Date/Time 12/16/24 11:27
Raw Sample Received by: Rs (Get 103)
Raw Sample Relinquished by: [Signature]

Date/Time 12/16/24 12:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: Rs (Get 103)

Prep Standard - Chemical Standard Summary

Order ID : P5282

Test : SVOC-SIMGroup1

Prepbatch ID : PB165667,

Sequence ID/Qc Batch ID: bn121924,BN122324,BN122624,

Standard ID :

EP2559,EP2565,EP2571,SP6527,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3759,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11792,S11831,S12029,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>
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

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>
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<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

FROM 0.00160ml of S11011 + 0.02000ml of S11792 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 +
99.85840ml of E3788 = Final Quantity: 100.000 ml

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>
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

<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

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

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>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

<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

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>
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

<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

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>
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

<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

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>
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

<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

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>
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
								12/03/2024

FROM 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

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>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
<u>SOURCE</u> <u>FROM</u> 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/21/2025	08/21/2024 / Jagrut	11/21/2023 / Rahul	S11792

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, 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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, 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]

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 / Iwona	07/03/2024 / Iwona	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 $\leq -10^{\circ}\text{C}$ 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 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 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

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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 +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%			

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

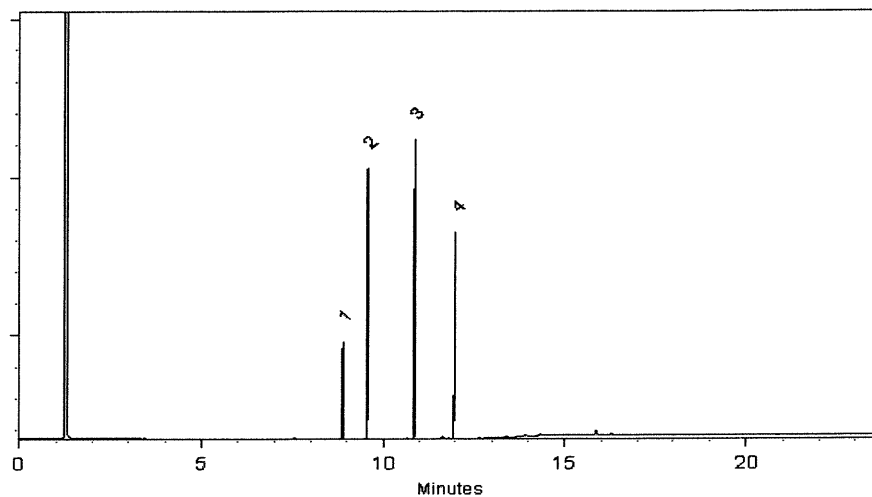
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

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

www.restek.com

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:

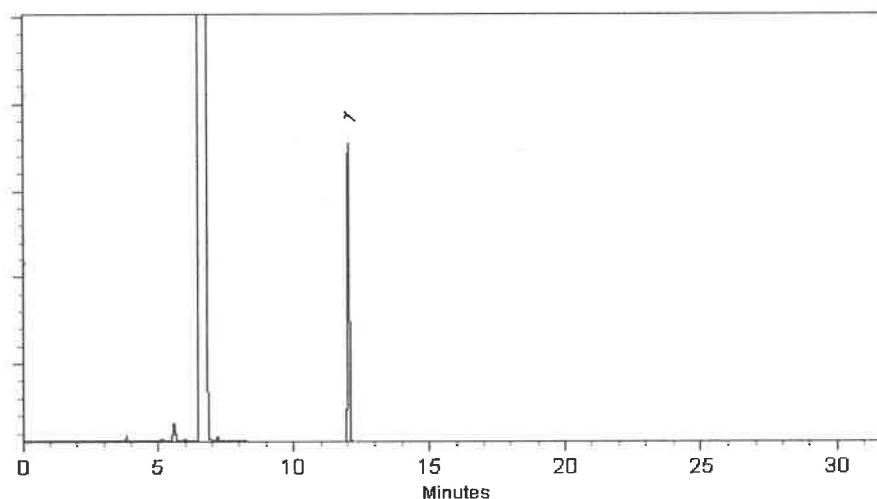
200°C

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
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.: 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 - 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/ μ ECD, 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
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na 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.

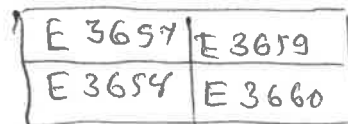
This document has been electronically produced and is valid without a signature.

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.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
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: MG24C16563

E 3759

Jamie Croak
Director Quality Operations, Bioscience Production

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	≤ 1.0 ppm	0.2 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 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

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. : 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:

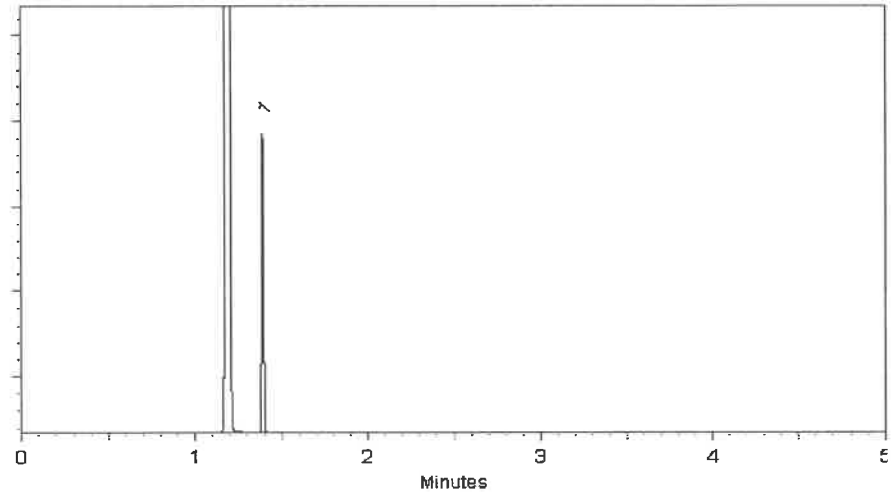
FID

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

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. : 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:

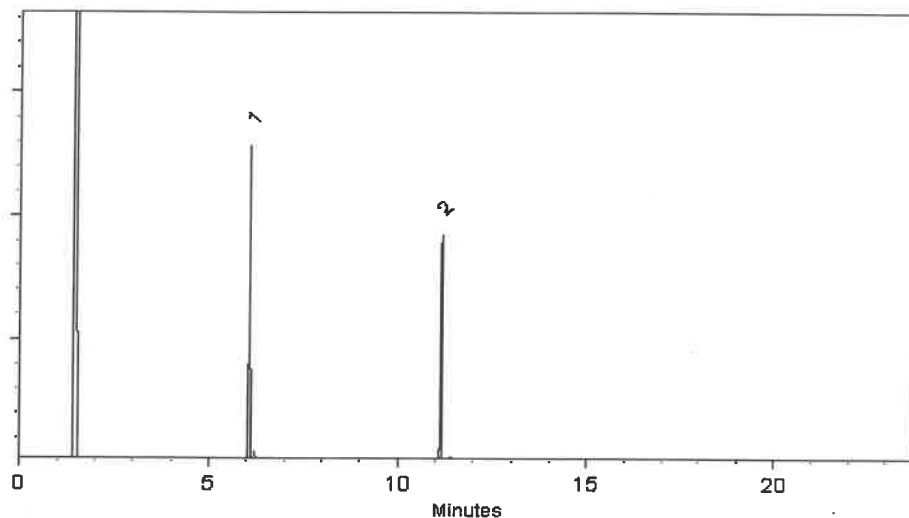
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

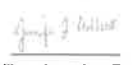


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

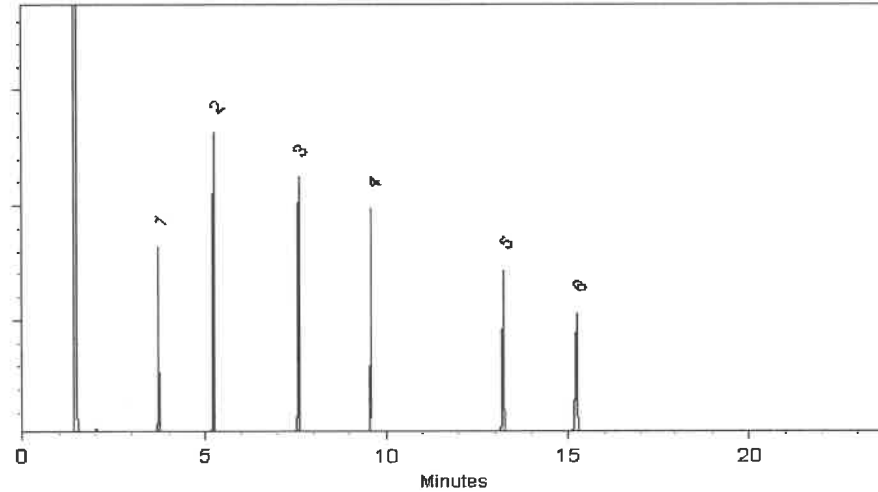
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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-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.



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-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
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. : 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
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

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

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. : 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:

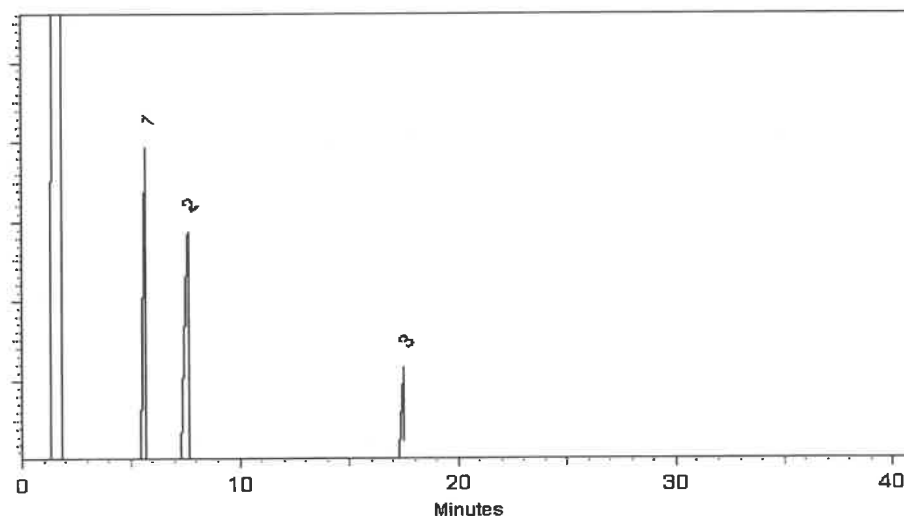
FID

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
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. : 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:

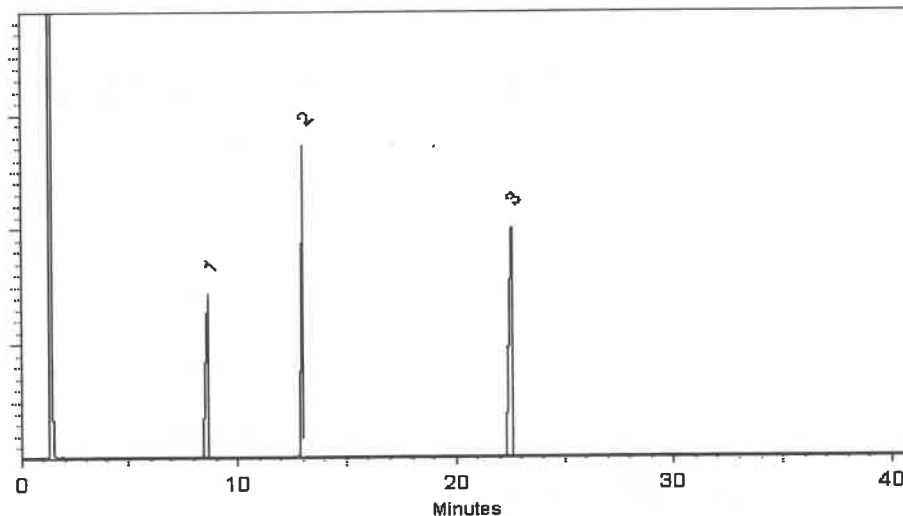
FID

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



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. : 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:

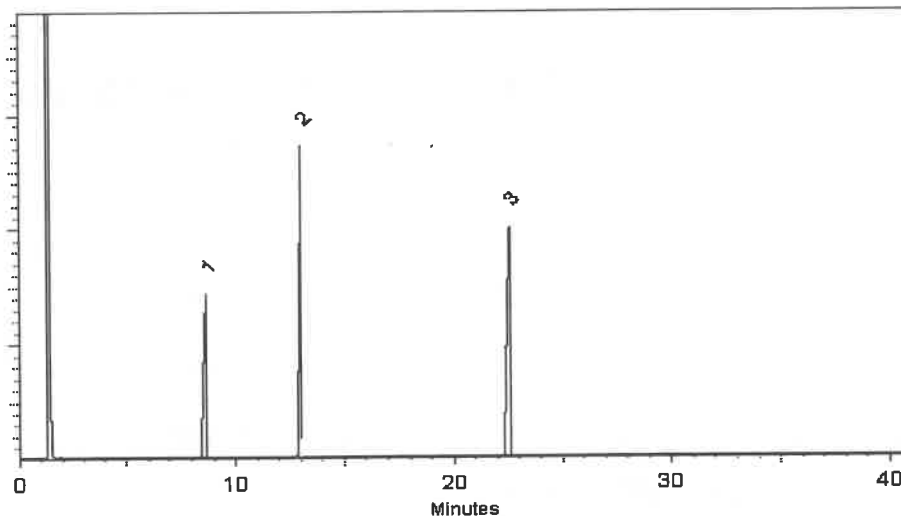
FID

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



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. : 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:

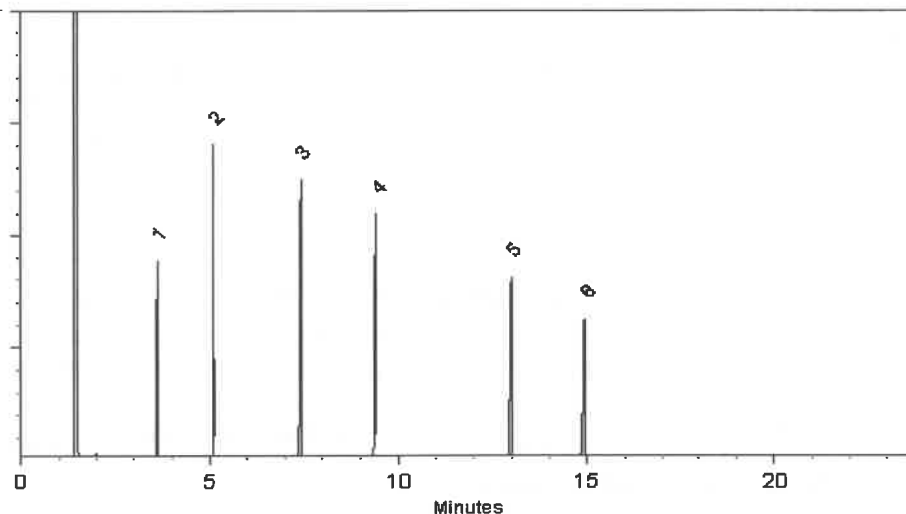
FID

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 - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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. : 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:

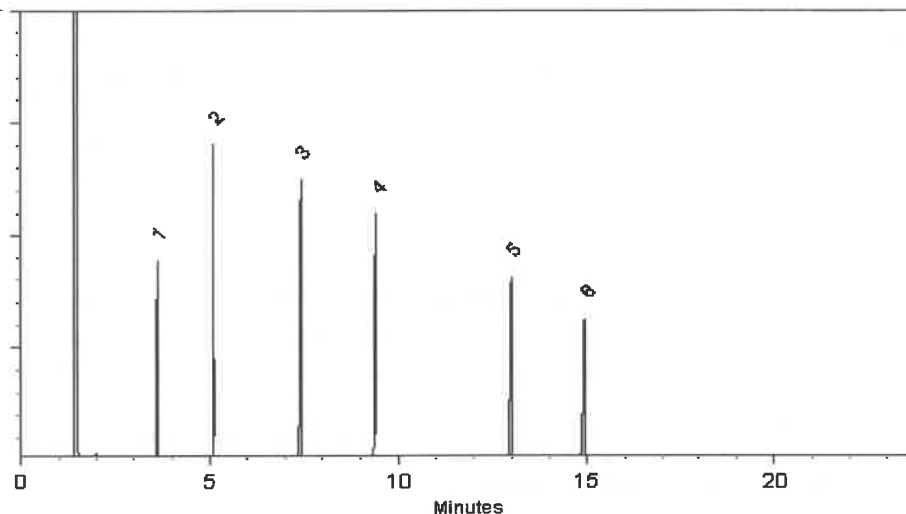
FID

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



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.



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.



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. : 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) 78-8922 www.chemtech.net		Chemtech Project Number: PS282										
				COC Number:										
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION										
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: PO#										
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW7B		ADDRESS:										
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:										
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:										
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148												
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS										
FAX: 10 DAYS* HARD COPY: 10 DAYS* EDD 10 DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ RESULTS + QC ☐ New Jersey REDUCED ☐ New Jersey CLP ☐ EDD Format ☐ USEPA CLP ☐ New York State ASP "B" ☐ New York State ASP "A" ☐ Other		1,4-Dioxane SW646 8270 SIM <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr></table>		1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9						
				PRESERVATIVES										
				COMMENTS										
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMF GRAB	SAMPLE COLLECTION DATE TIME	# of Bottles									
1.	RW7-SP100-20241212	GW	x	12/12/24 12:15	1									
2.	RW7-SP201-20241212	GW	x	12/12/24 12:17	1									
3.	RW7-SP302-20241212	GW	x	12/12/24 12:27	1									
4.	RW7-SP303-20241212	GW	x	12/12/24 12:29	1									
5.														
6.														
7.														
8.														
9.														
10.														
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY														
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.10											
1.	12/13/24 1300		MeOH extraction requires an additional 4oz. Jar for percent solid											
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:											
2.														
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY												
3.	12-13-24													
Page of			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight		Shipment Complete									
			CHEMTECH: ☐ Picked Up ☐ Overnight		☐ YES ☐ NO									
WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY														



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

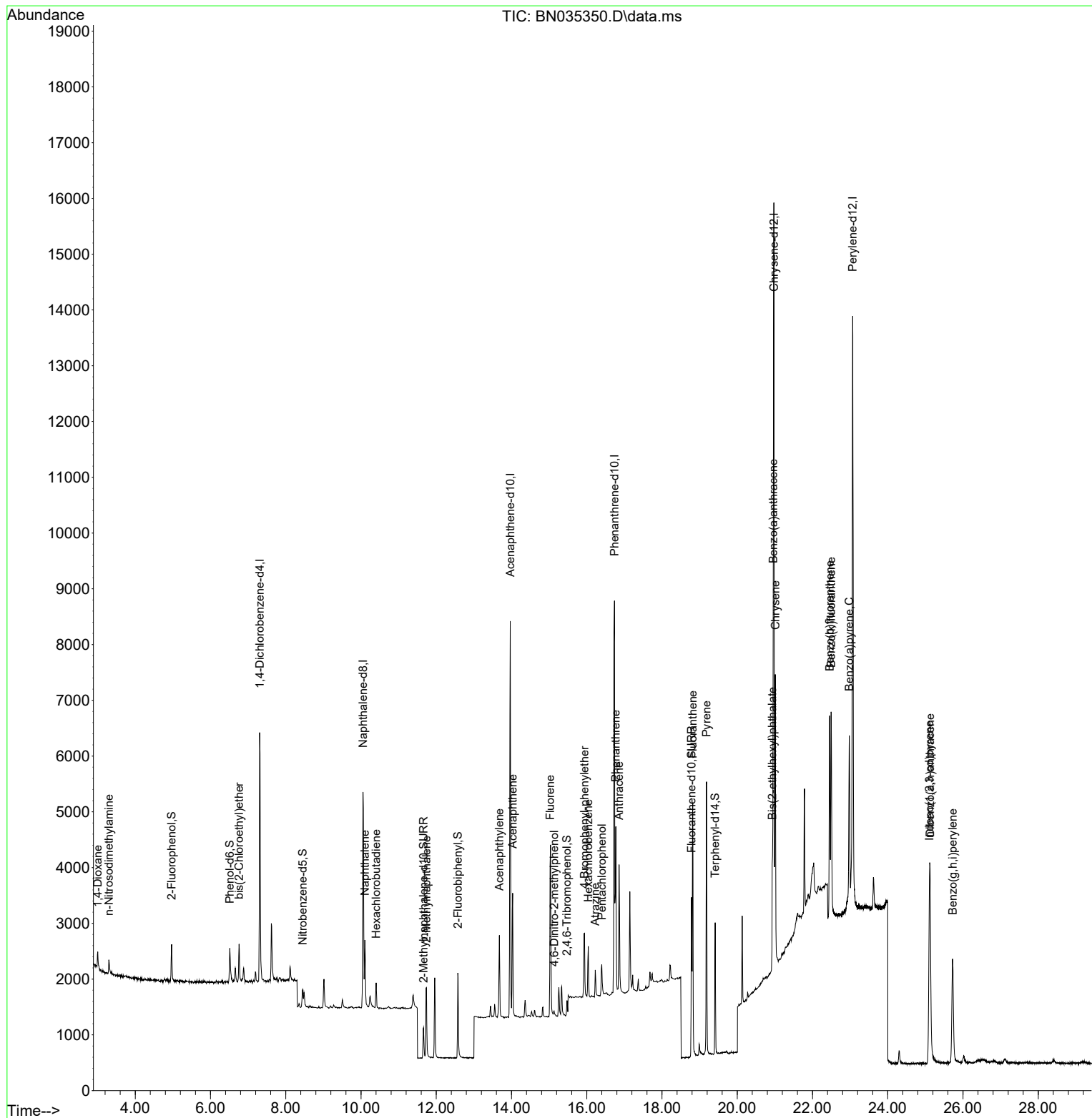
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng	0.00
35) Perylene-d12	23.067	264	13004	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	573	0.101	ng	0.00
5) Phenol-d6	6.513	99	686	0.096	ng	0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng	0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng	0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	# 87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	# 90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng	98
9) Naphthalene	10.105	128	1527	0.102	ng	# 91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	# 97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng	96
16) Acenaphthylene	13.679	152	1675	0.096	ng	100
17) Acenaphthene	14.031	154	1143	0.100	ng	99
18) Fluorene	15.026	166	1620	0.096	ng	98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	# 29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	# 94
22) Hexachlorobenzene	16.041	284	720	0.100	ng	97
23) Atrazine	16.227	200	421	0.068	ng	# 86
24) Pentachlorophenol	16.401	266	381	0.114	ng	90
25) Phenanthrene	16.773	178	2963	0.104	ng	99
26) Anthracene	16.860	178	2617	0.100	ng	98
28) Fluoranthene	18.817	202	4173	0.106	ng	99
30) Pyrene	19.184	202	4461	0.119	ng	100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng	99
33) Chrysene	21.010	228	4123	0.106	ng	97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng	97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	# 82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	# 80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	# 69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	# 86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	# 93

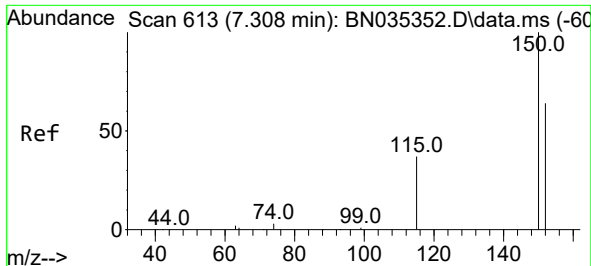
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

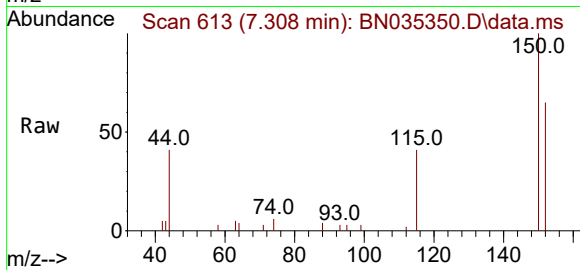
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



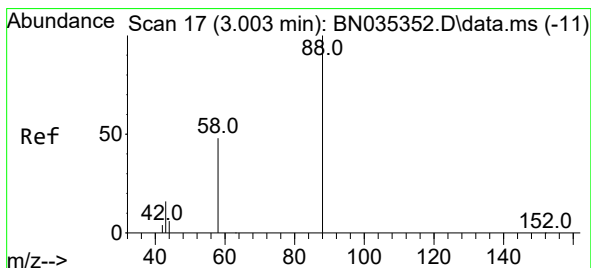
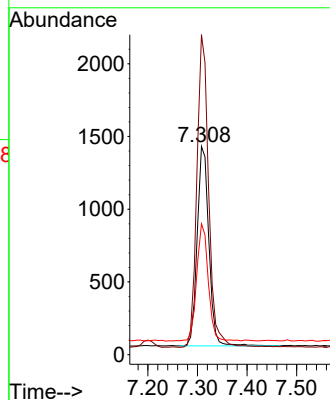
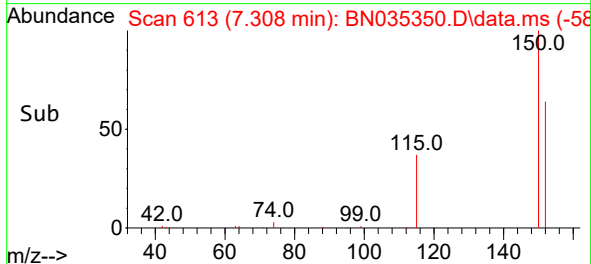


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

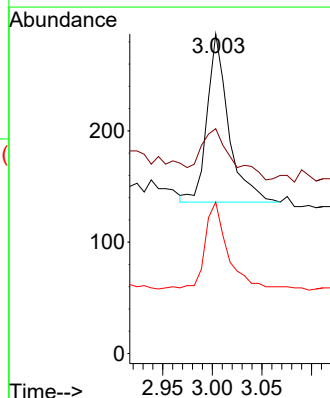
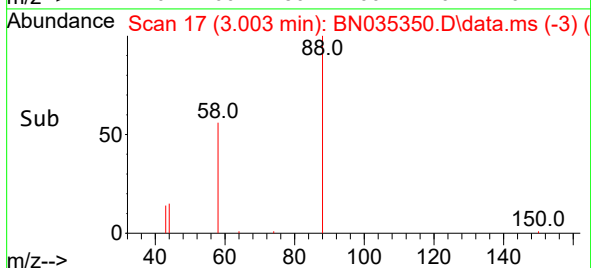
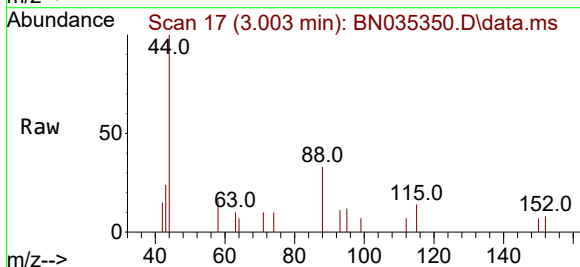


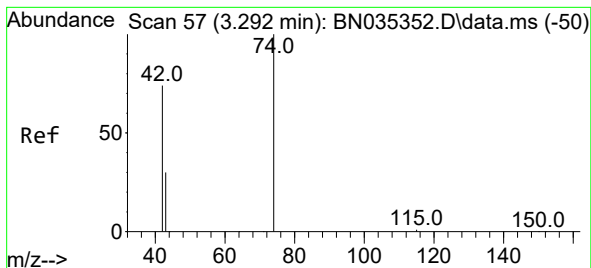
Tgt Ion:152 Resp: 2237
 Ion Ratio Lower Upper
 152 100
 150 153.6 124.0 186.0
 115 62.8 49.6 74.4



#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

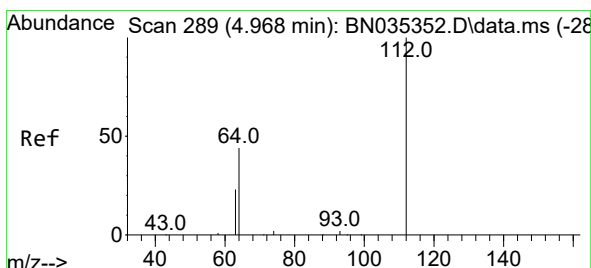
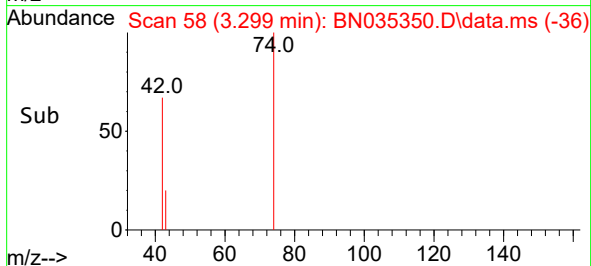
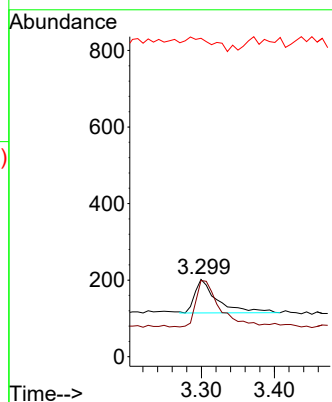
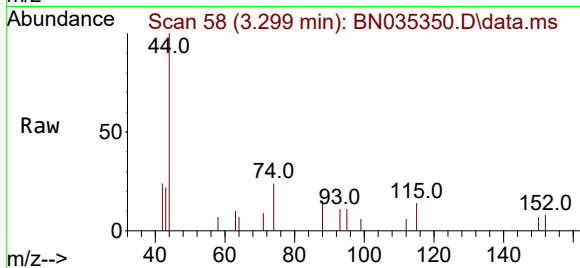
Tgt Ion: 42 Resp: 187

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

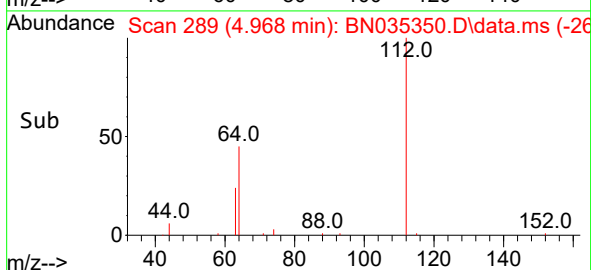
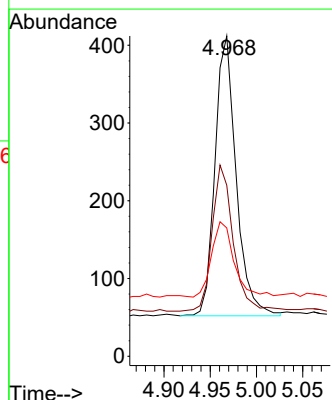
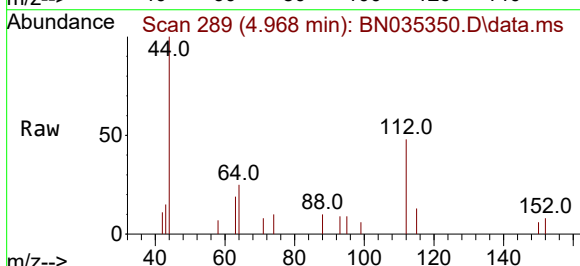
Tgt Ion: 112 Resp: 573

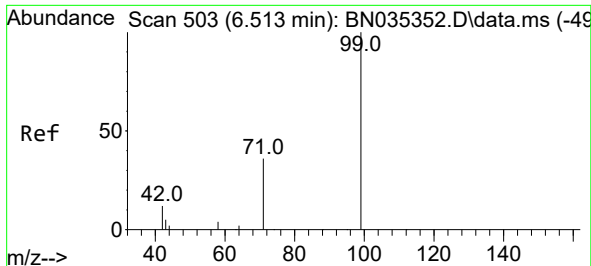
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6

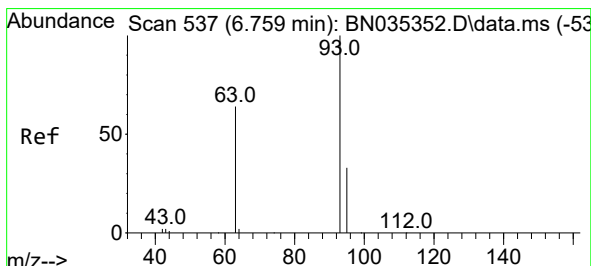
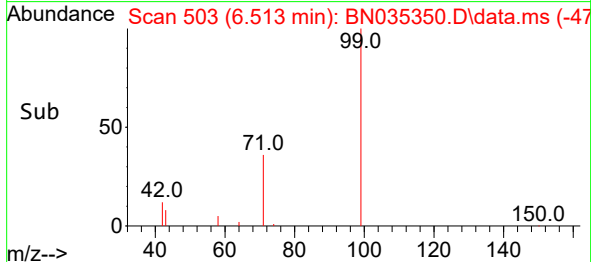
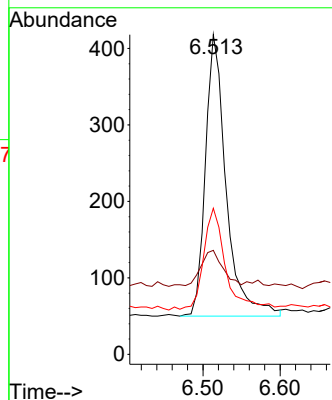
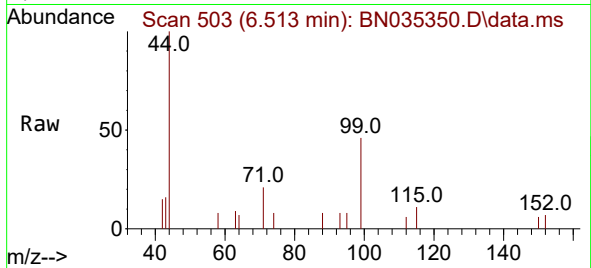




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

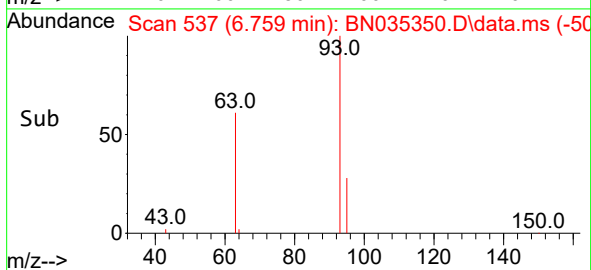
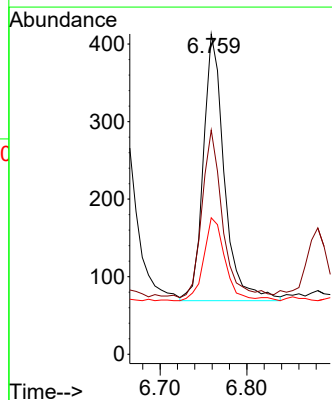
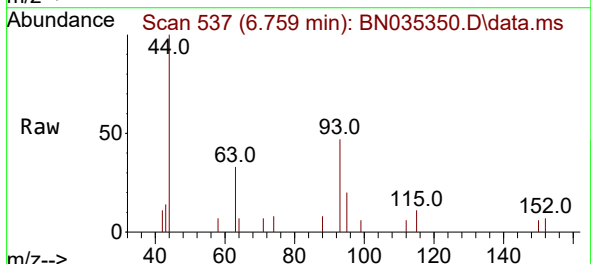
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

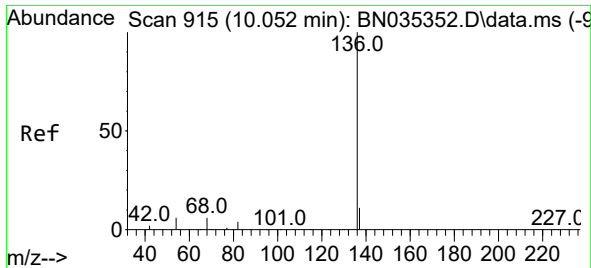
Tgt Ion: 99 Resp: 686
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9



#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

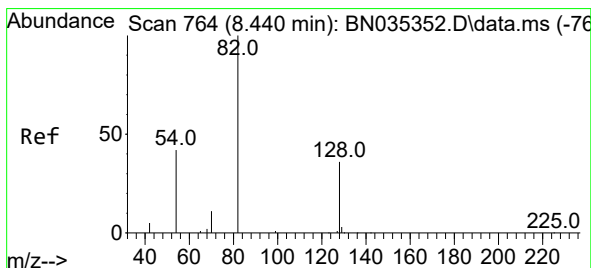
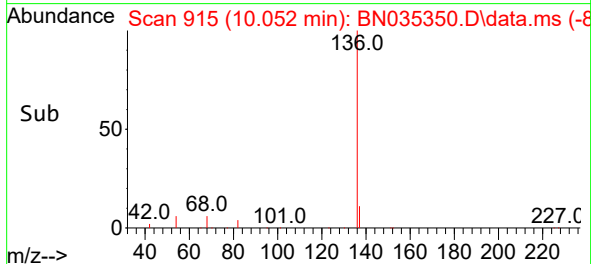
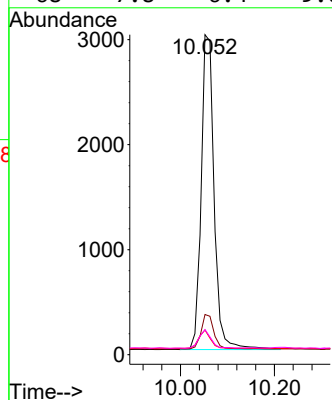
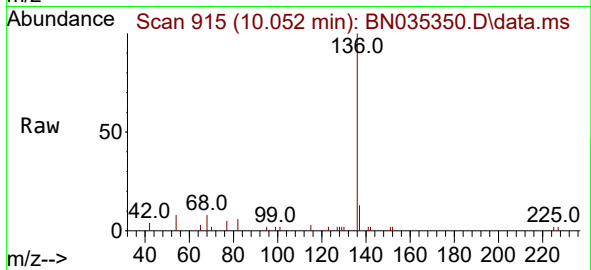




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

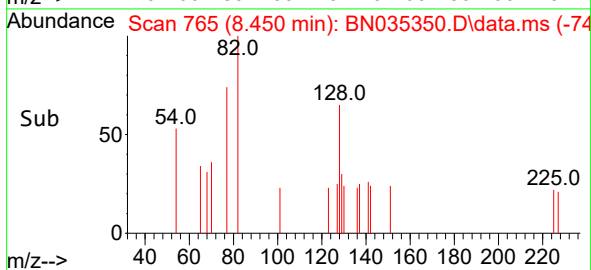
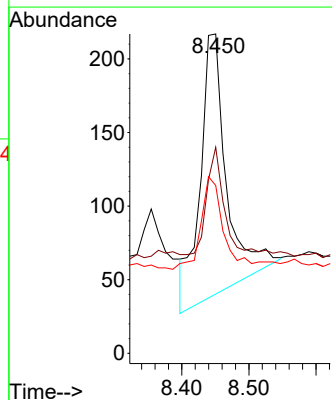
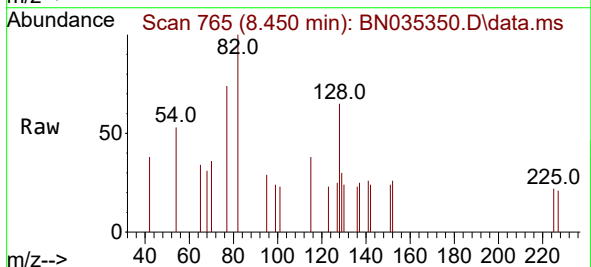
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

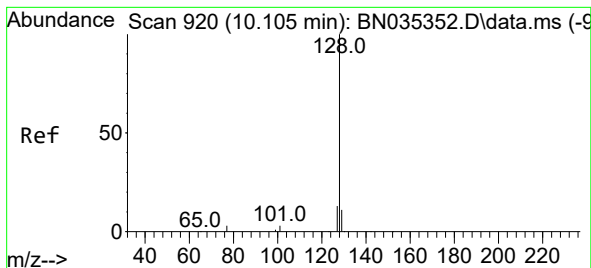
Tgt Ion:136	Resp:	5753
Ion Ratio	Lower	Upper
136	100	
137	12.6	10.2 15.2
54	7.7	6.1 9.1
68	7.8	6.4 9.6



#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

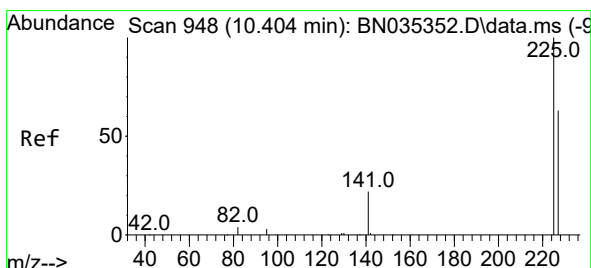
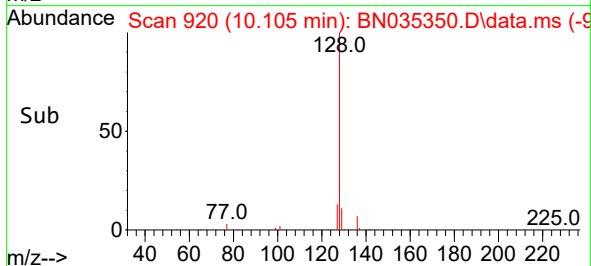
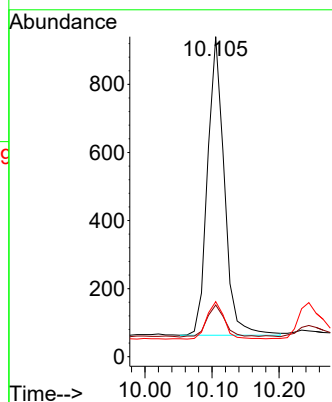
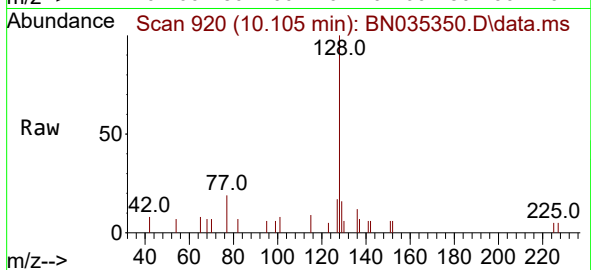
Tgt Ion:128 Resp: 1527

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

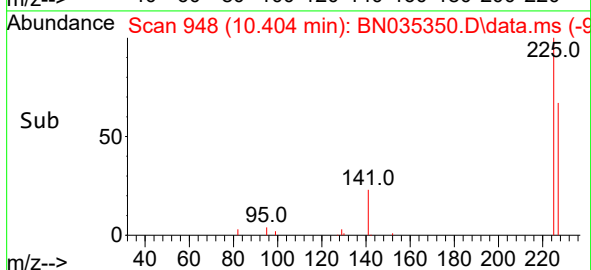
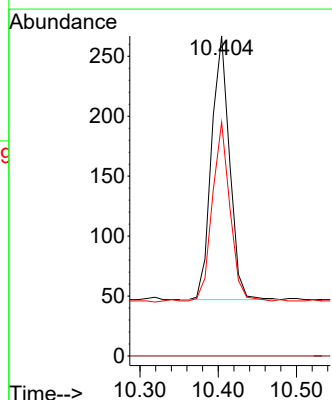
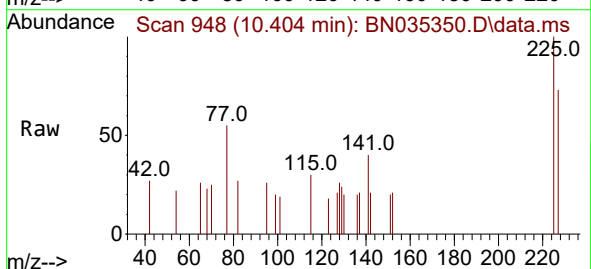
Tgt Ion:225 Resp: 352

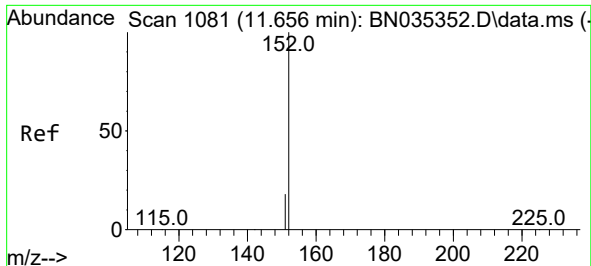
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 66.2 51.3 76.9

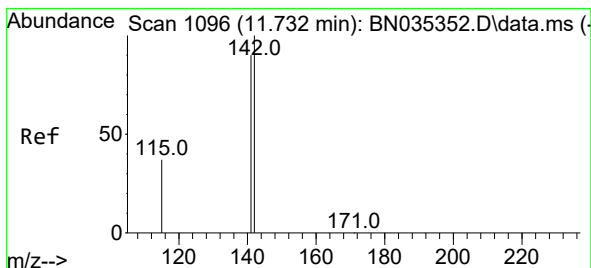
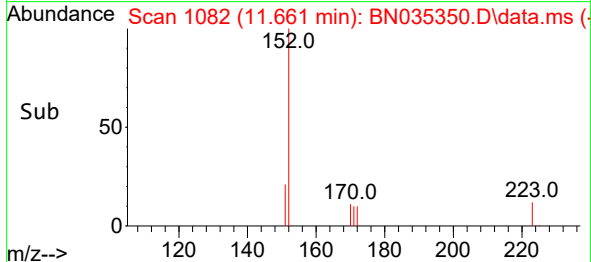
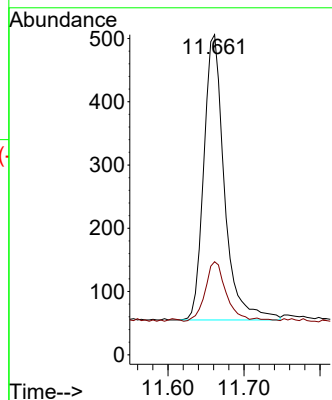
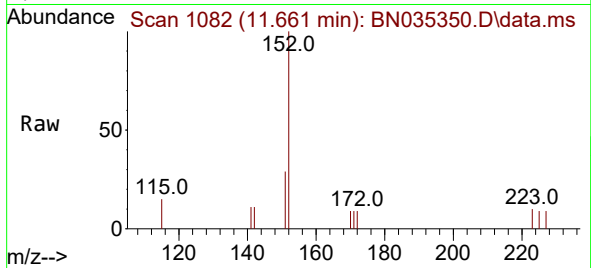




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

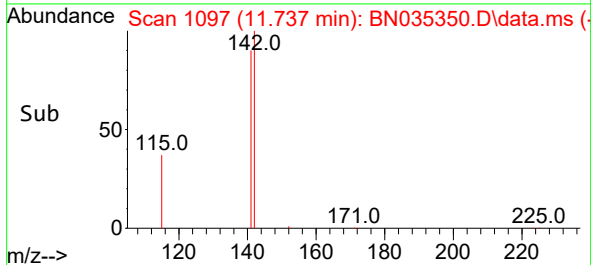
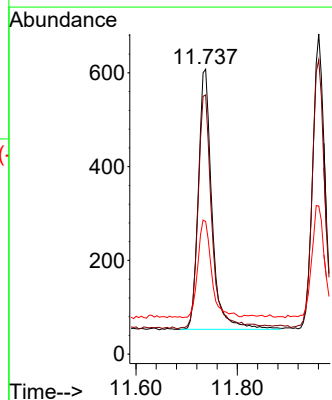
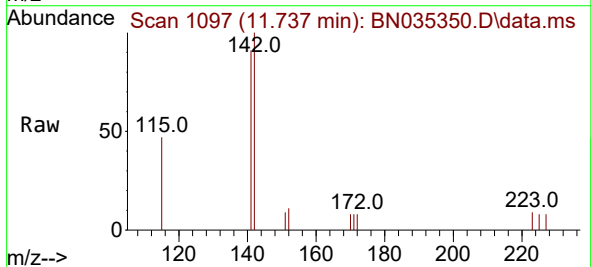
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

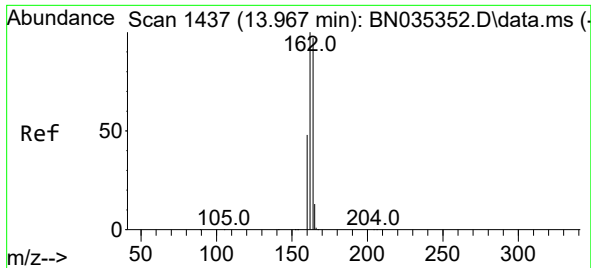
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#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

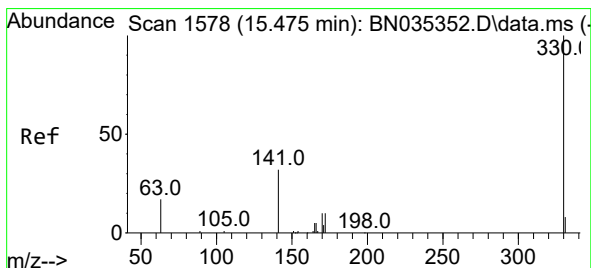
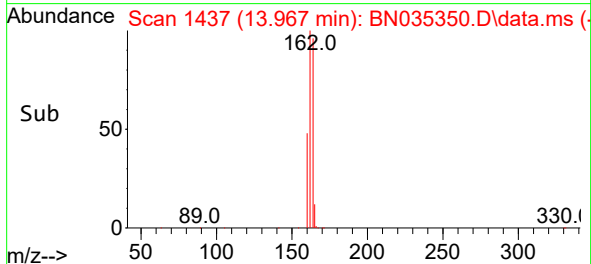
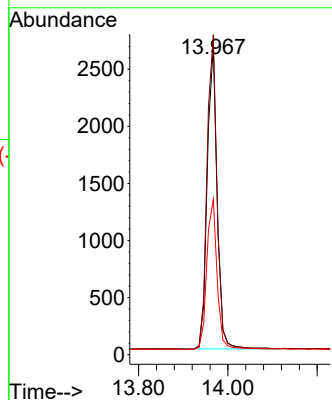
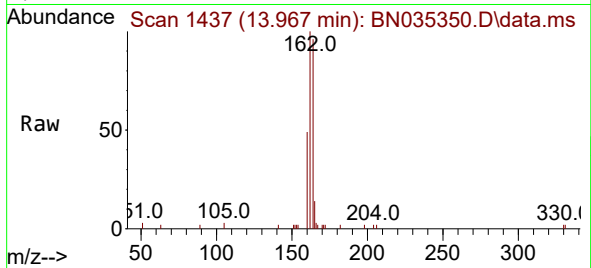




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

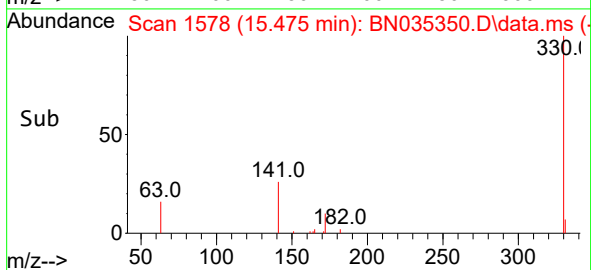
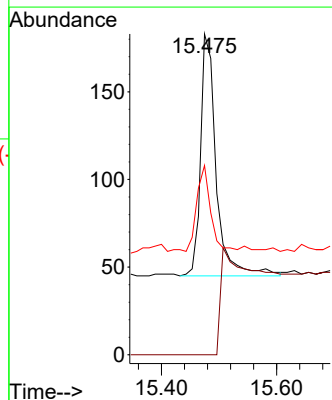
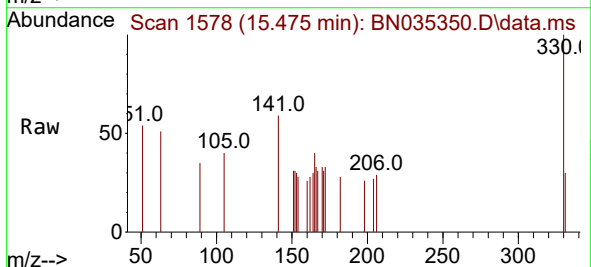
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

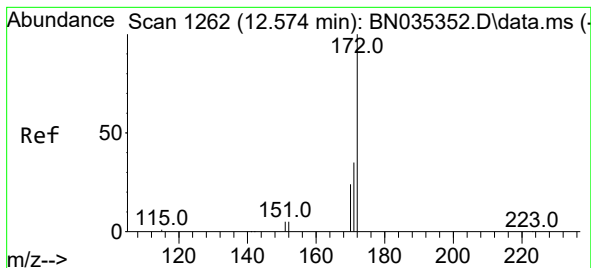
Tgt Ion:164 Resp: 4077
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1



#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

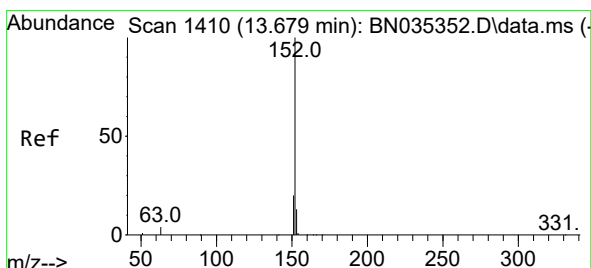
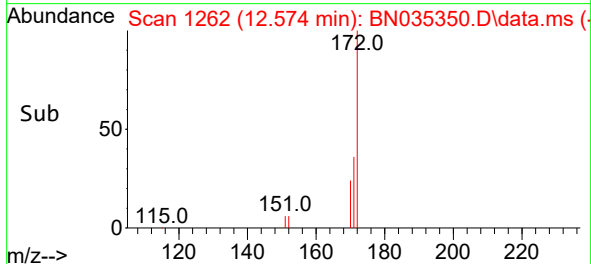
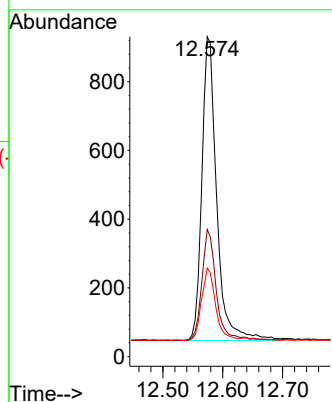
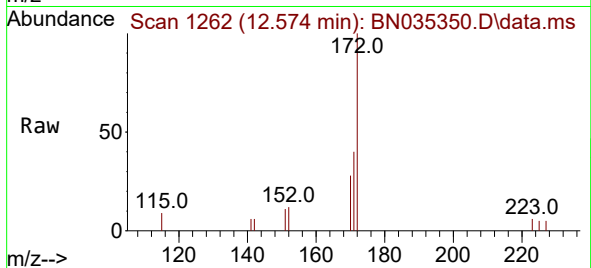




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

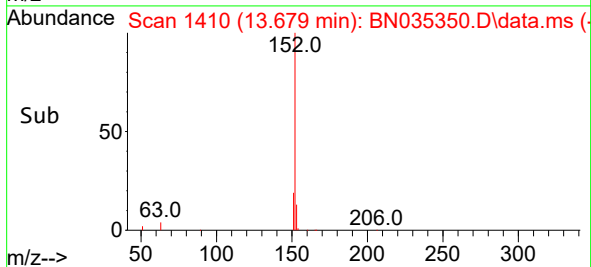
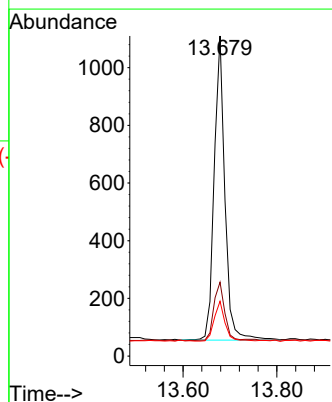
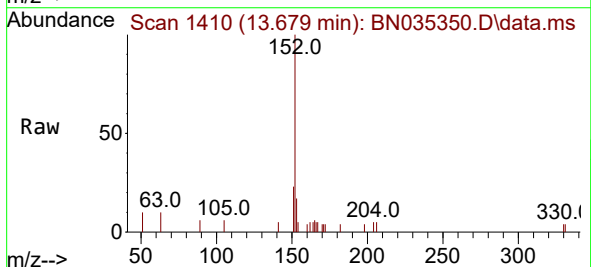
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

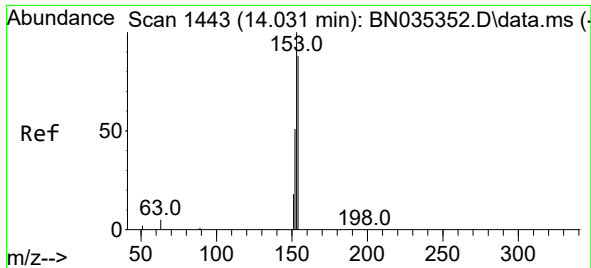
Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8



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

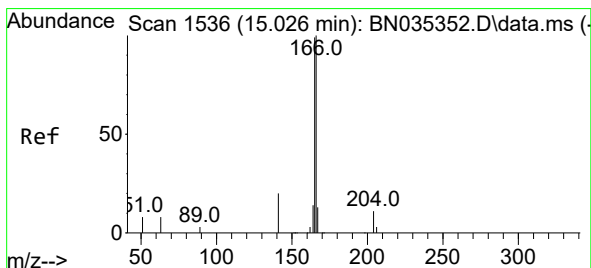
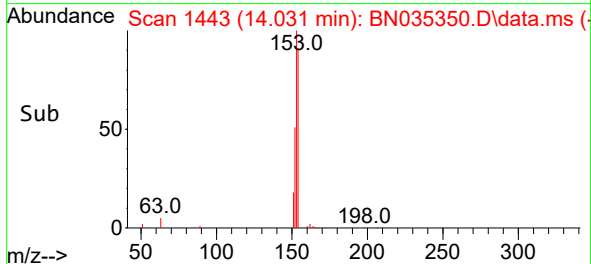
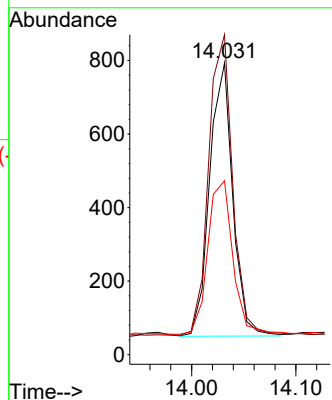
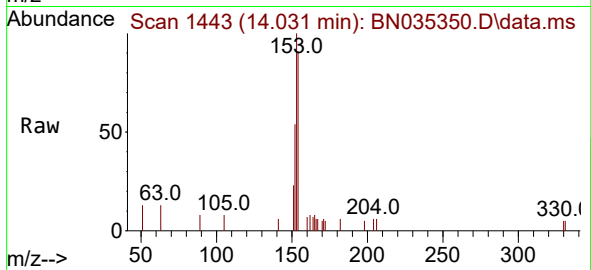




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

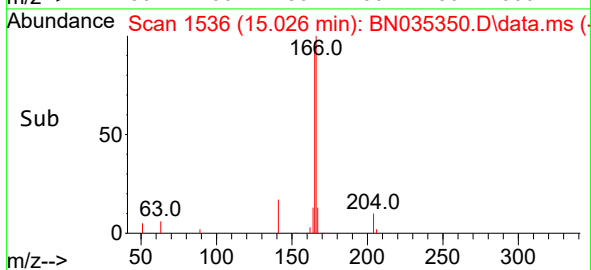
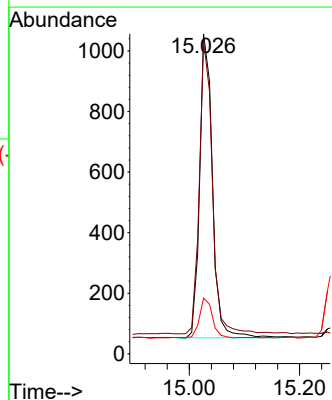
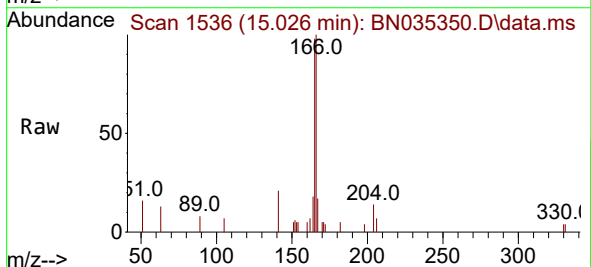
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

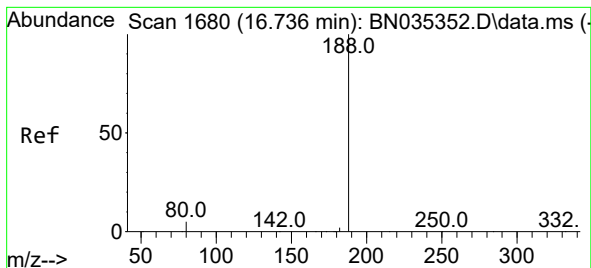
Tgt Ion:154 Resp: 1143
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6



#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

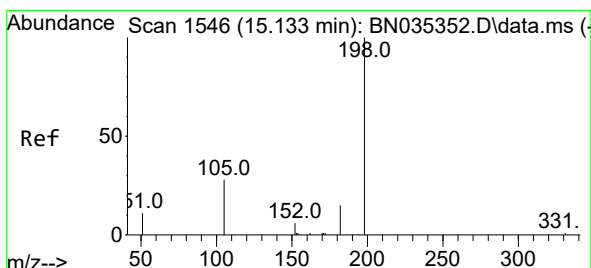
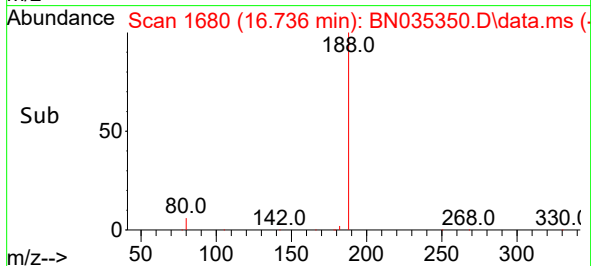
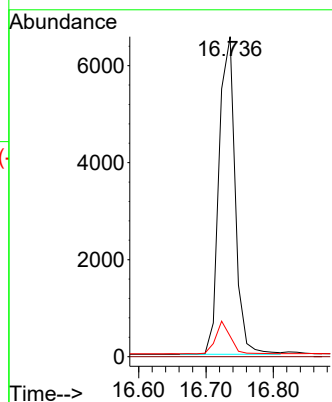
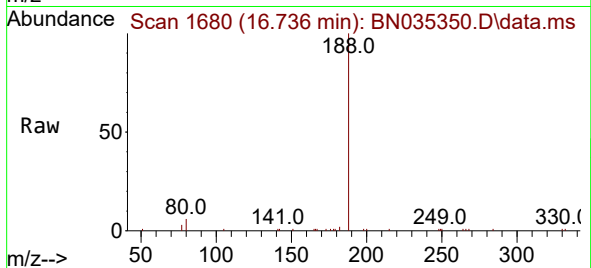
Tgt Ion:188 Resp: 10855

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

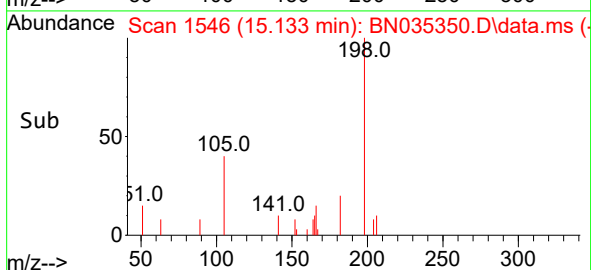
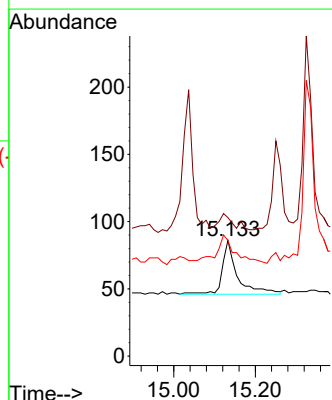
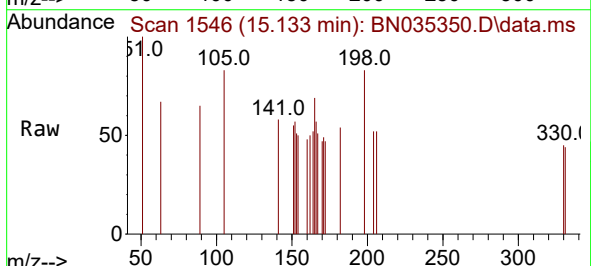
Tgt Ion:198 Resp: 103

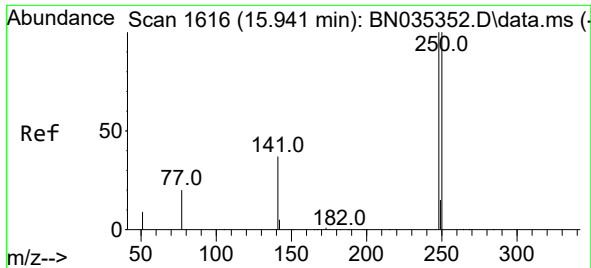
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

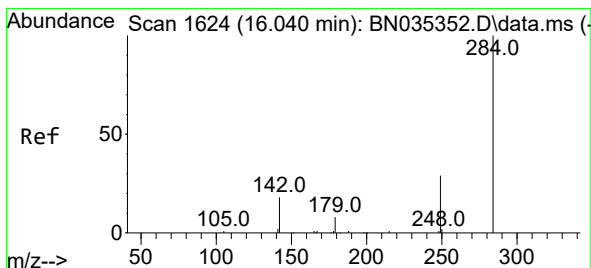
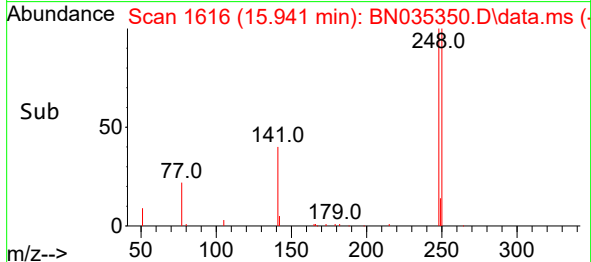
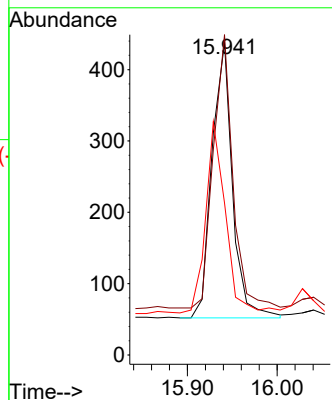
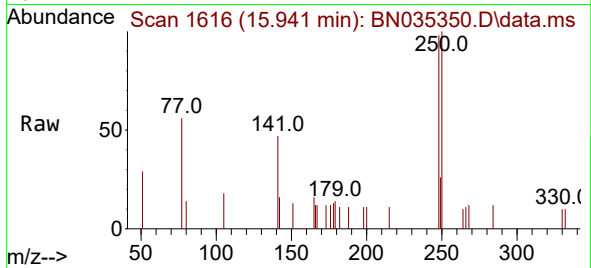




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

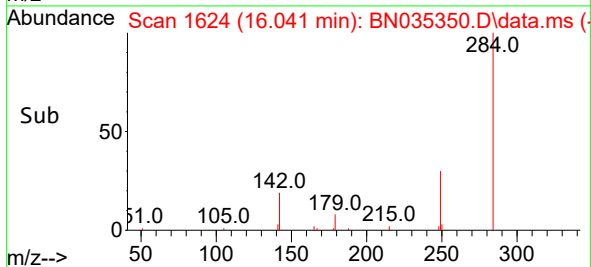
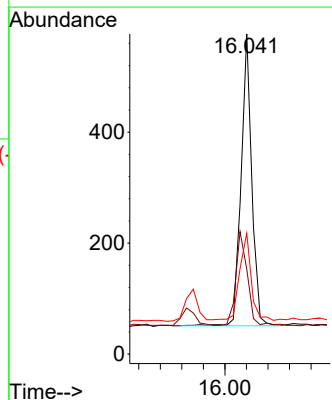
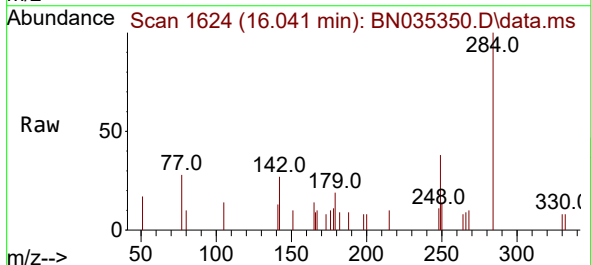
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

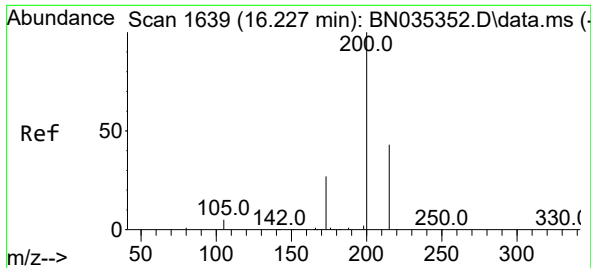
Tgt Ion:248 Resp: 612
Ion Ratio Lower Upper
248 100
250 102.5 80.6 120.8
141 48.6 31.5 47.3#



#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

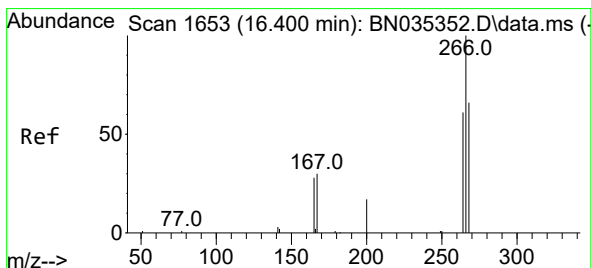
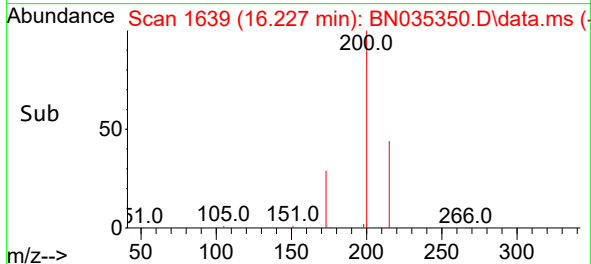
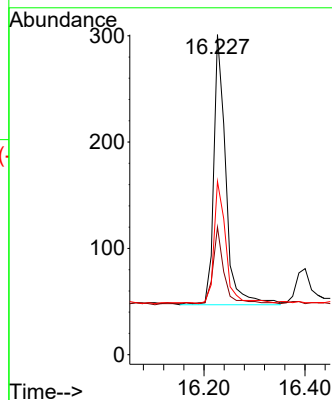
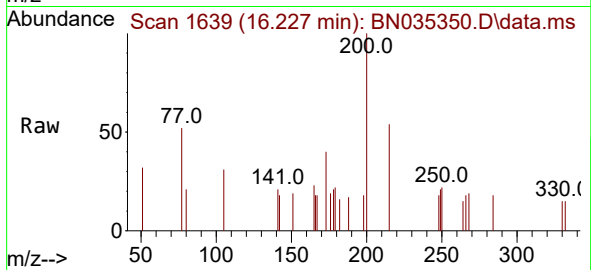




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

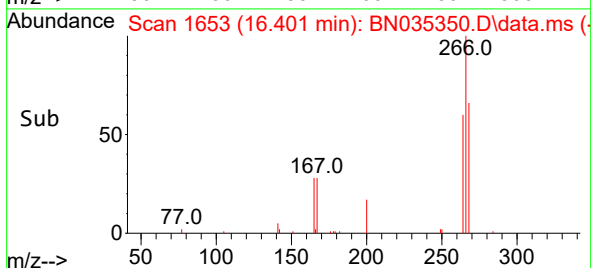
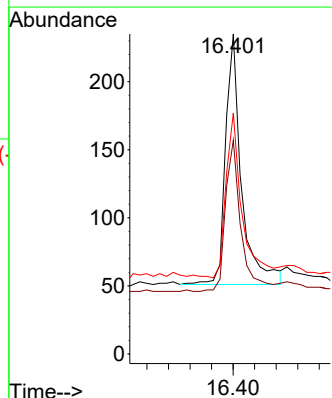
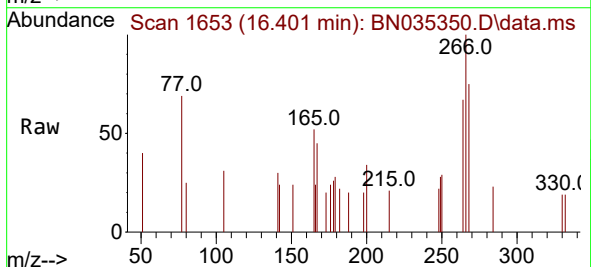
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

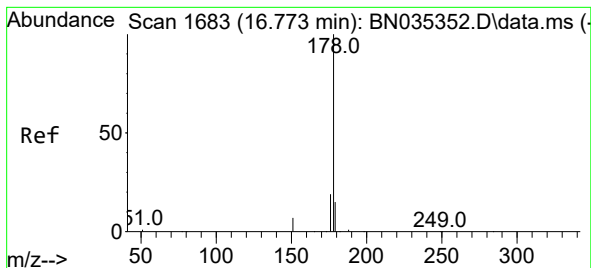
Tgt Ion:200 Resp: 421
Ion Ratio Lower Upper
200 100
173 39.9 24.1 36.1#
215 54.2 36.9 55.3



#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

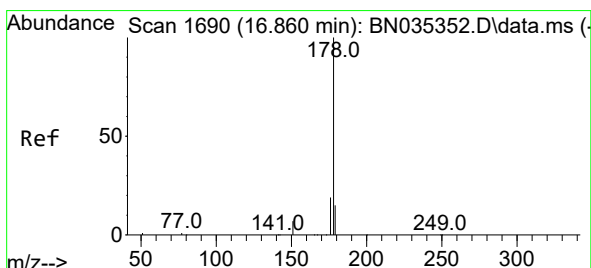
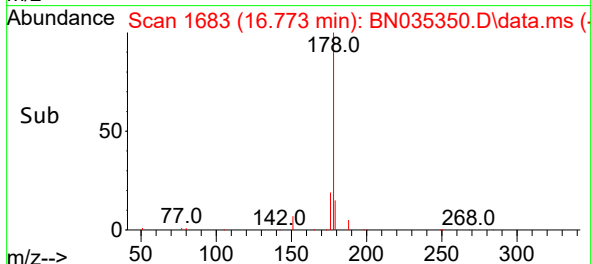
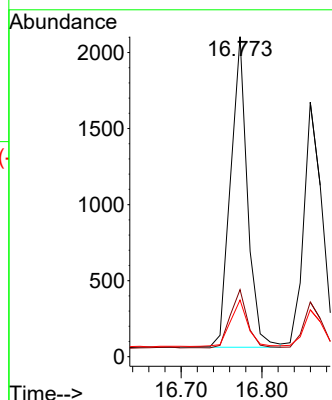
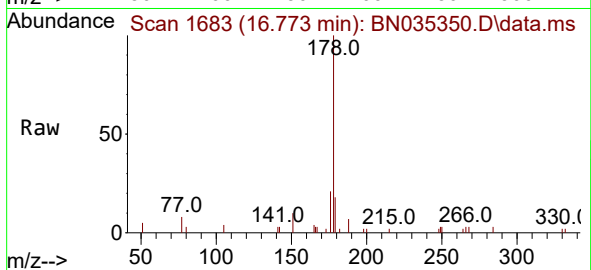
Tgt Ion:178 Resp: 2963

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

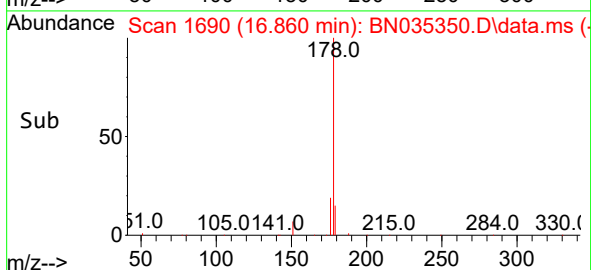
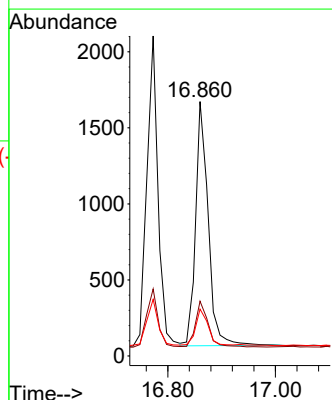
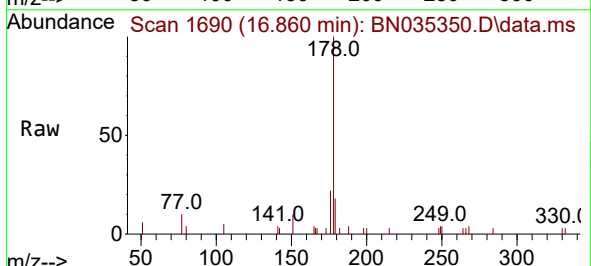
Tgt Ion:178 Resp: 2617

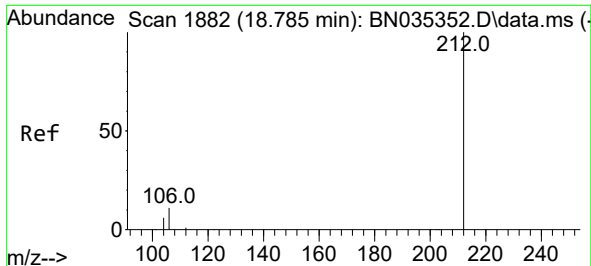
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 14.3 12.6 18.8

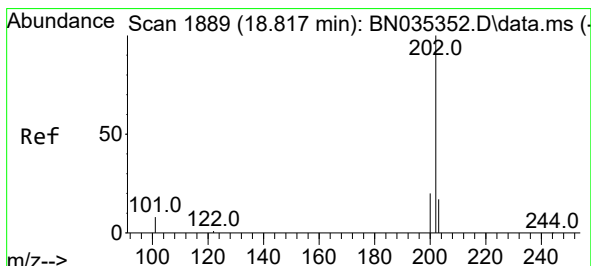
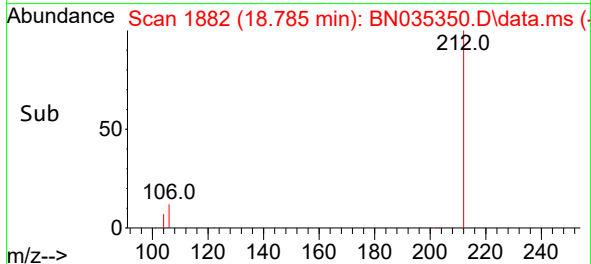
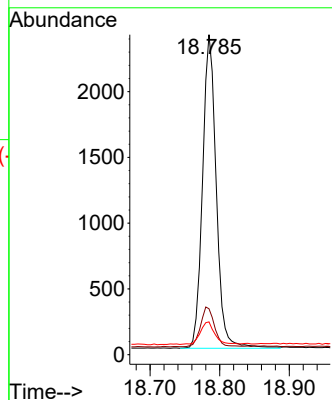
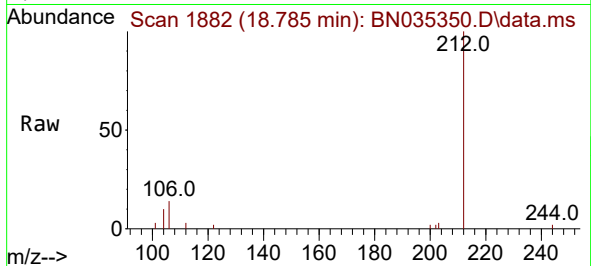




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

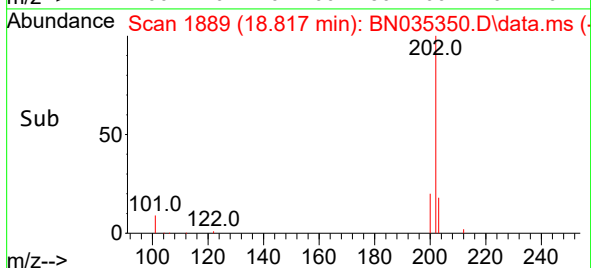
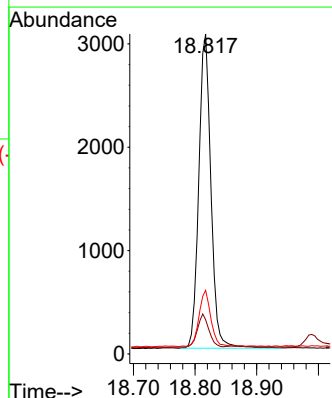
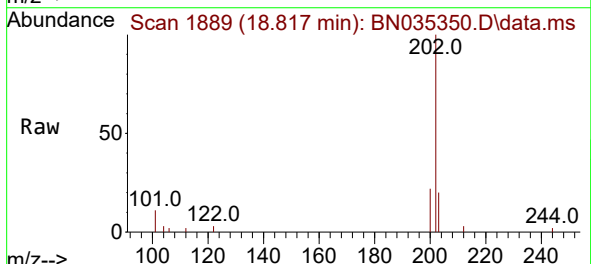
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

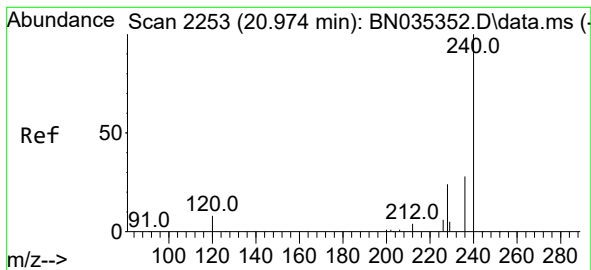
Tgt Ion:212 Resp: 3265
Ion Ratio Lower Upper
212 100
106 12.8 9.2 13.8
104 7.6 5.3 7.9



#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

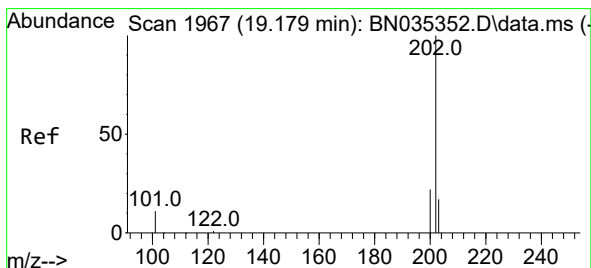
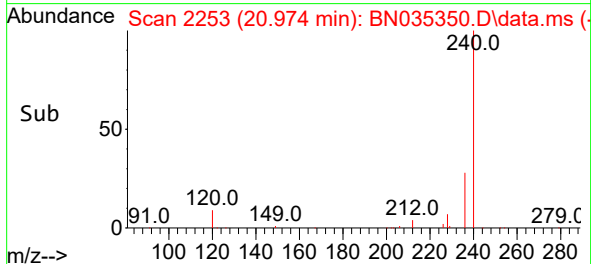
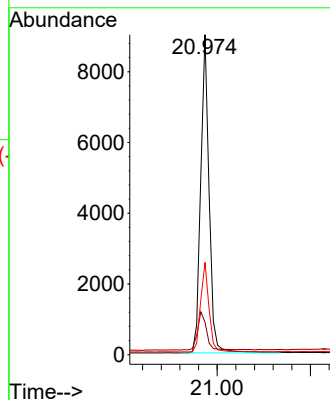
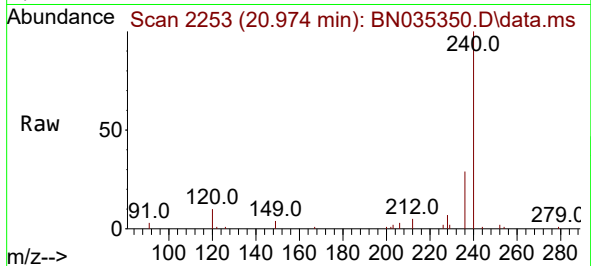
Tgt Ion:240 Resp: 11269

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

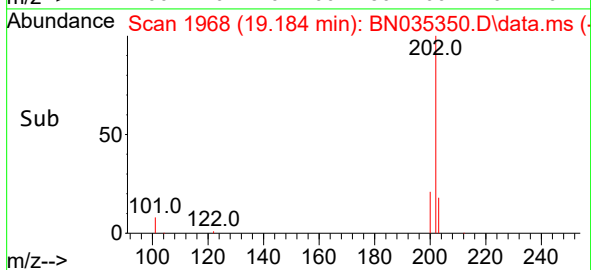
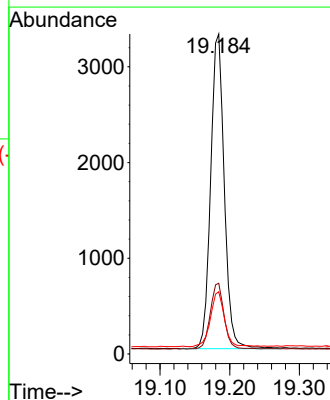
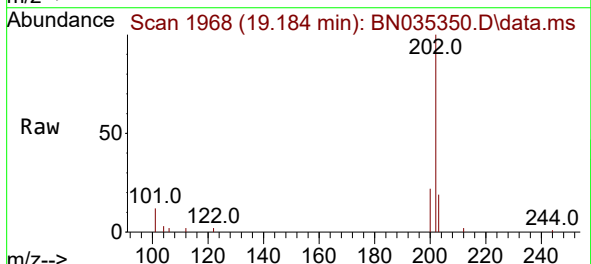
Tgt Ion:202 Resp: 4461

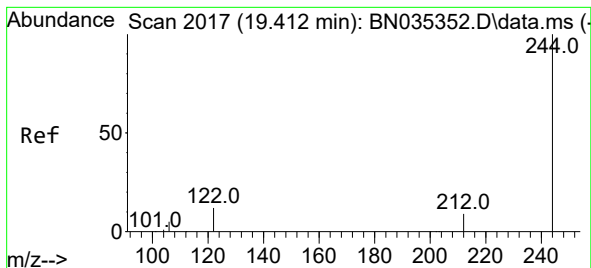
Ion Ratio Lower Upper

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

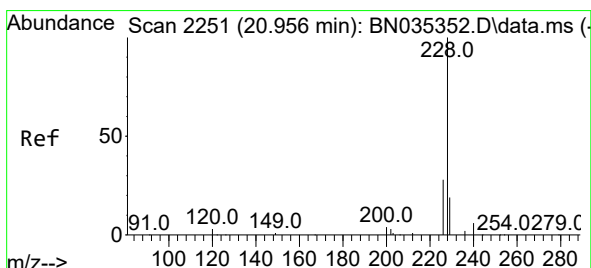
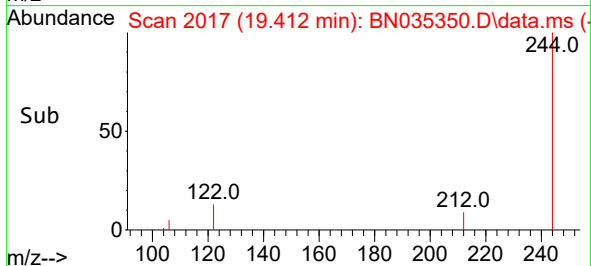
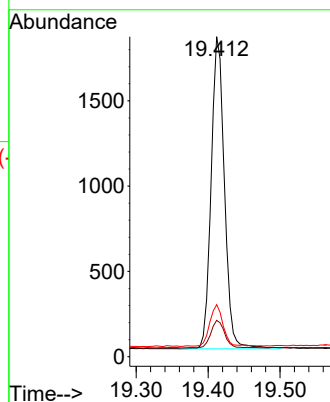
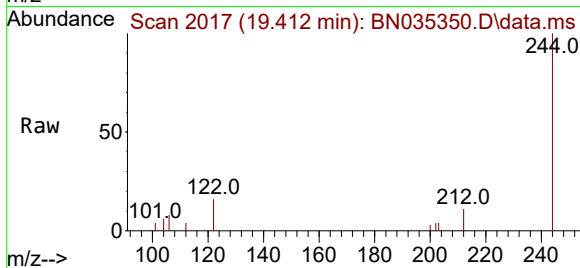
Tgt Ion:244 Resp: 2344

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

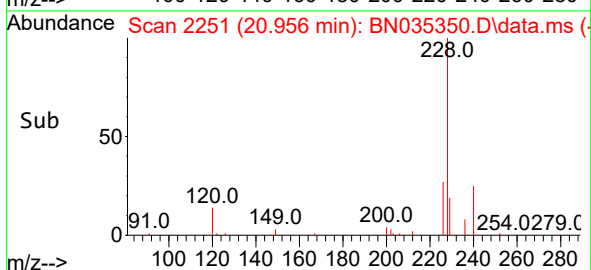
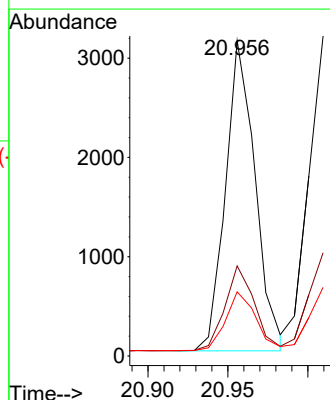
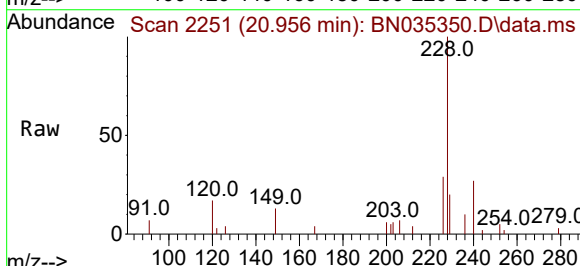
Tgt Ion:228 Resp: 4031

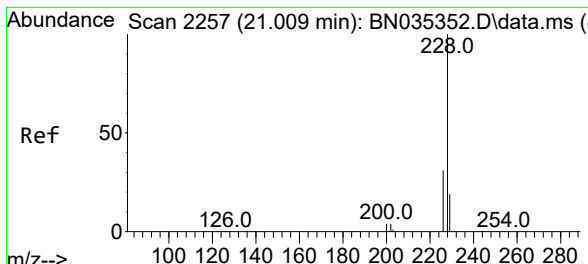
Ion Ratio Lower Upper

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

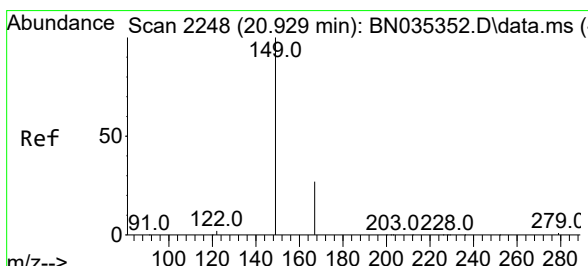
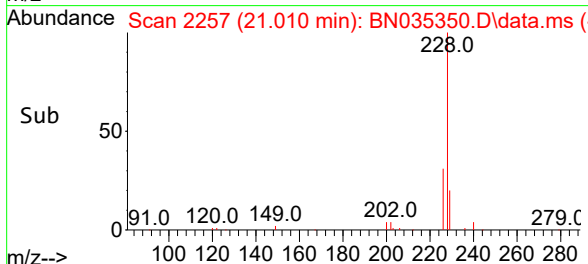
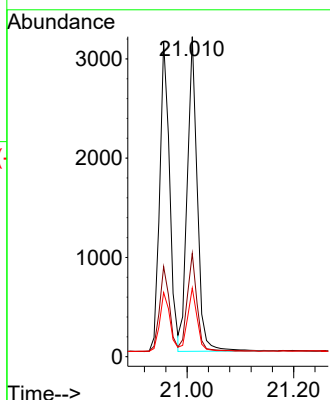
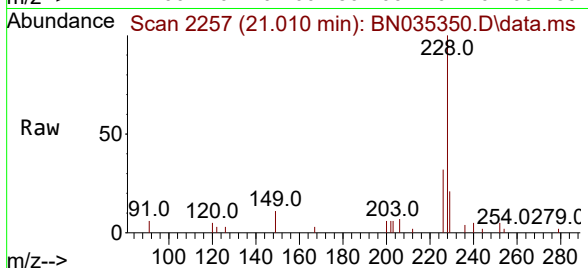
Tgt Ion:228 Resp: 4123

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

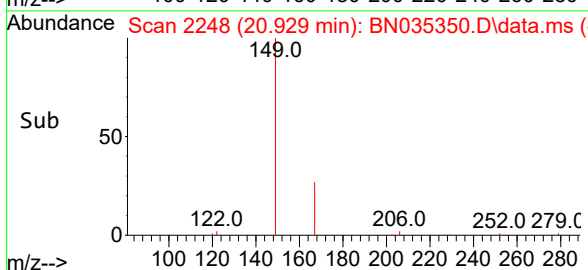
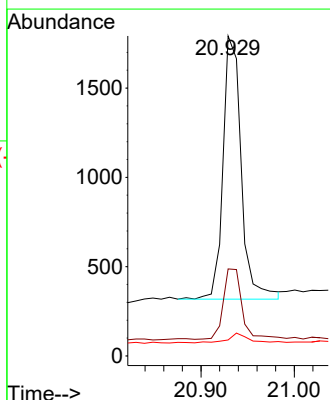
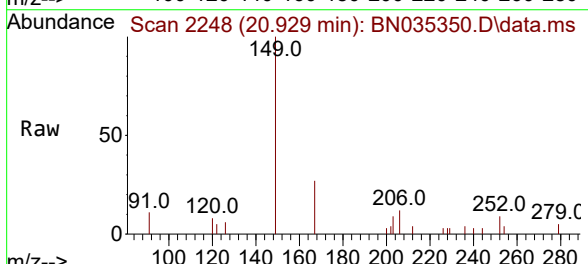
Tgt Ion:149 Resp: 1999

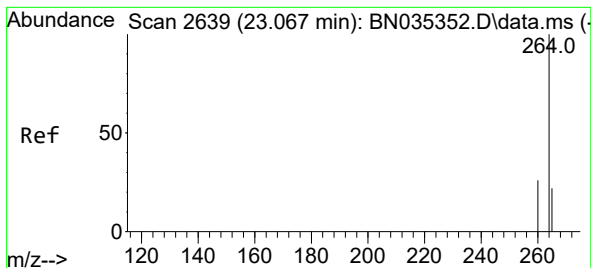
Ion Ratio Lower Upper

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

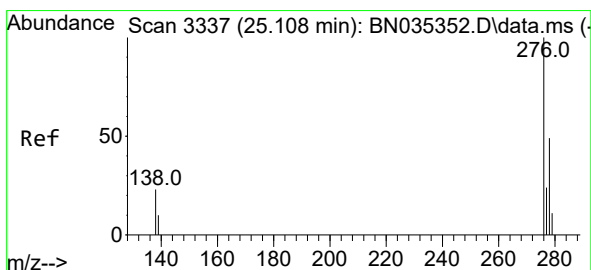
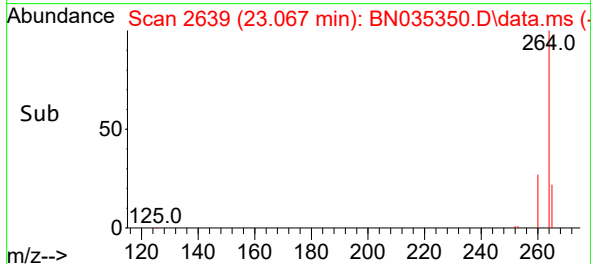
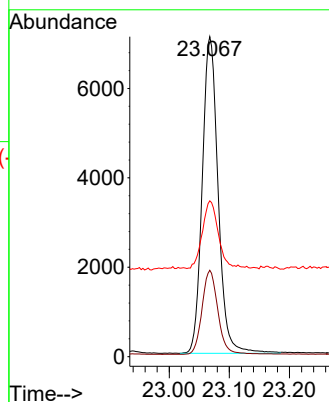
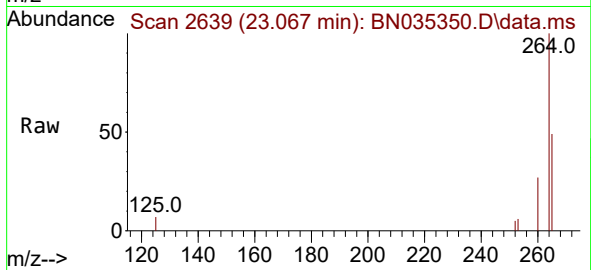
Tgt Ion:264 Resp: 13004

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

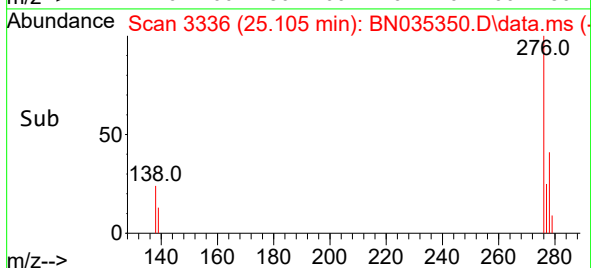
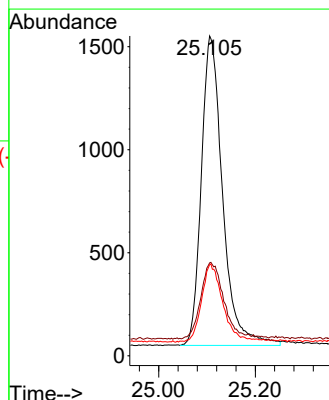
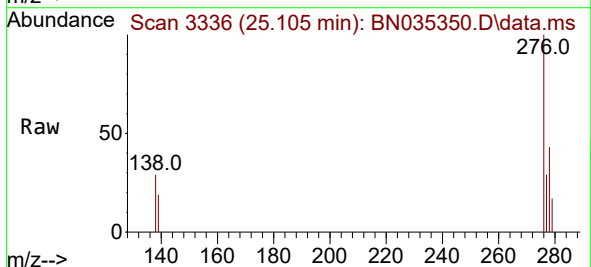
Tgt Ion:276 Resp: 4586

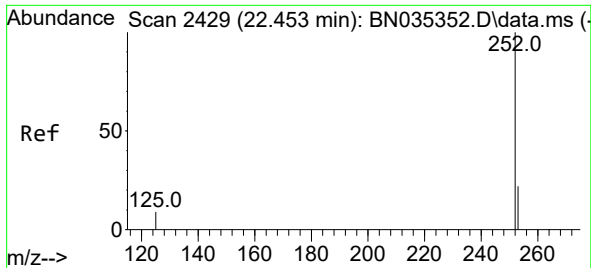
Ion Ratio Lower Upper

276 100

138 26.2 19.4 29.0

277 25.6 19.8 29.6

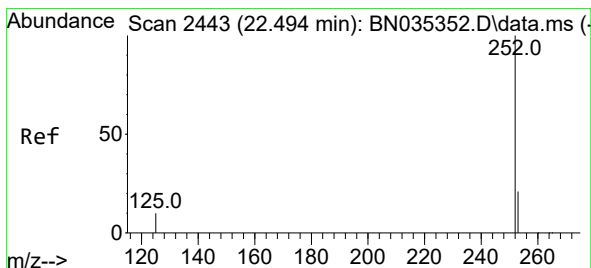
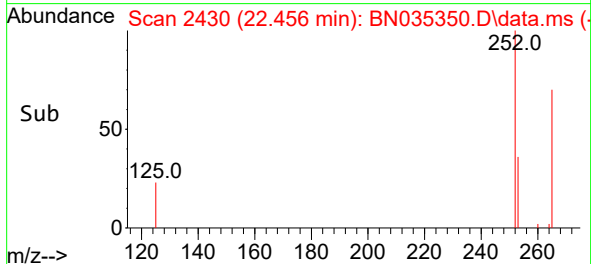
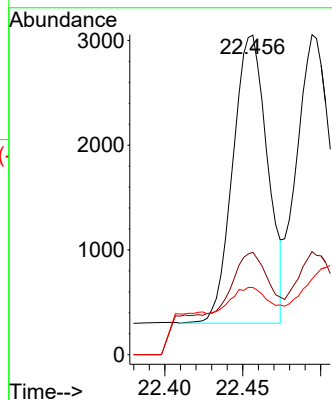
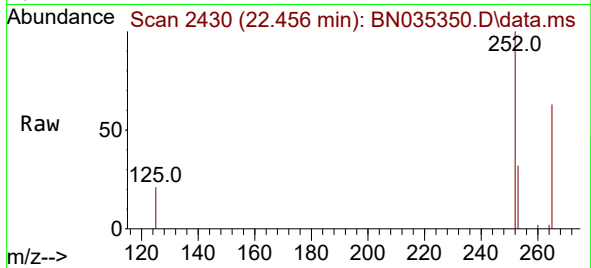




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

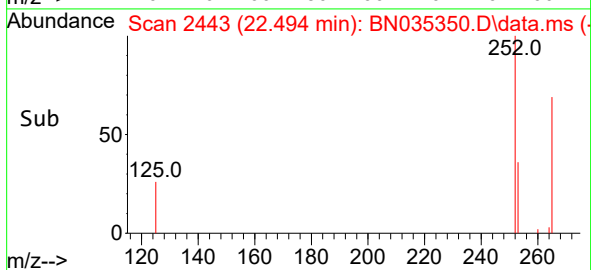
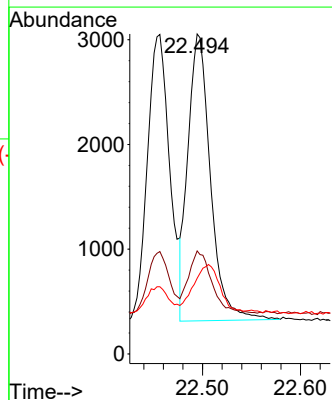
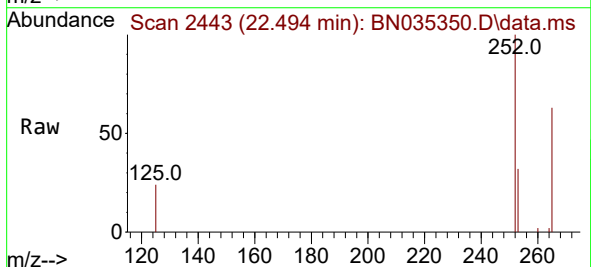
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

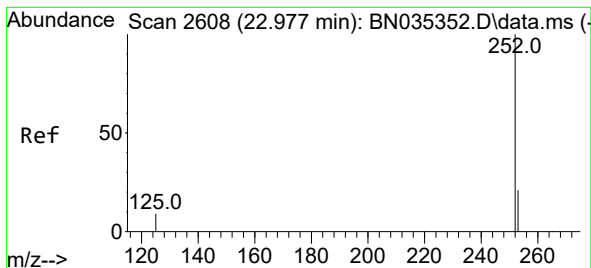
Tgt Ion:252 Resp: 4243
Ion Ratio Lower Upper
252 100
253 32.1 19.6 29.4#
125 21.0 9.6 14.4#



#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

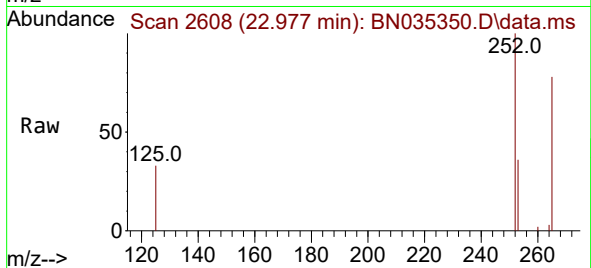
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



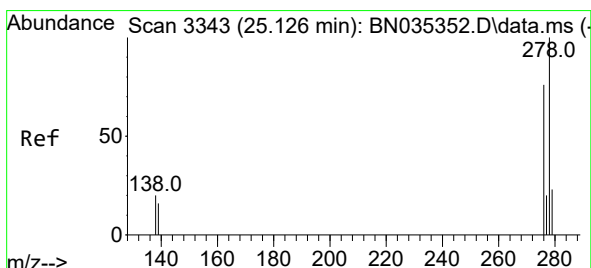
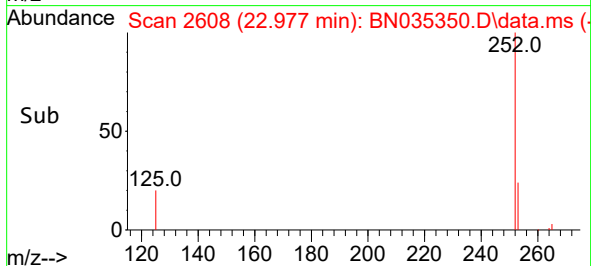
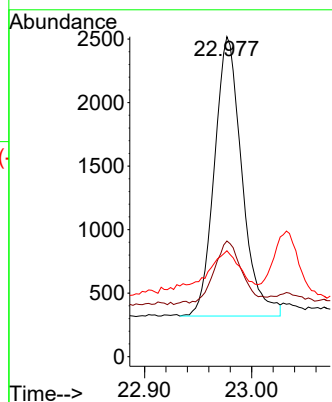
Tgt Ion:252 Resp: 3913

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

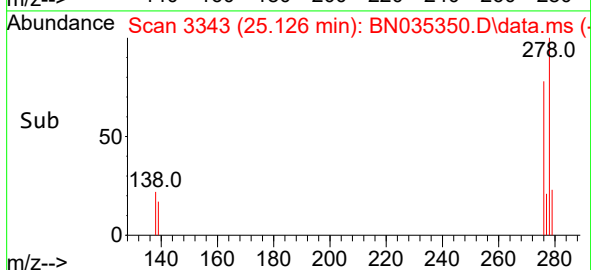
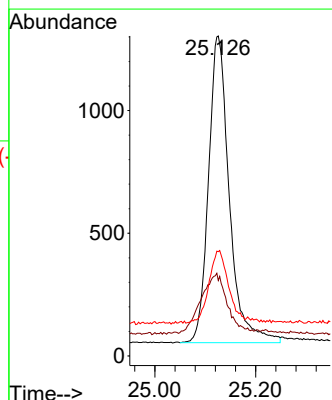
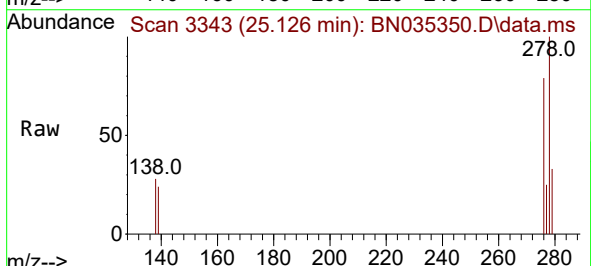
Tgt Ion:278 Resp: 3588

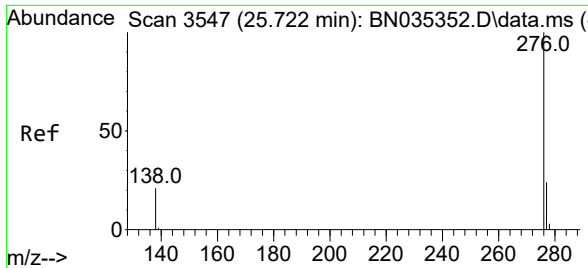
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

279 32.6 20.5 30.7#

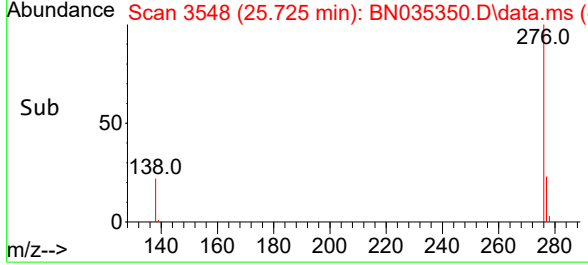
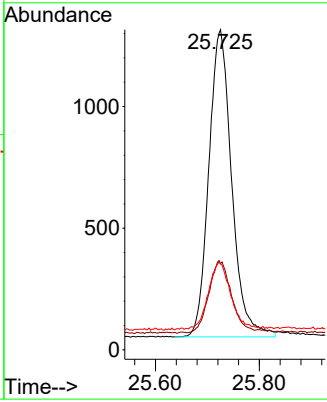
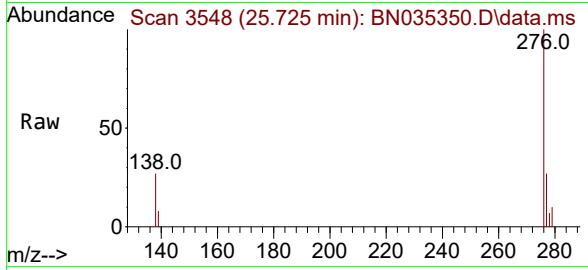




#41
 Benzo(g,h,i)perylene
 Concen: 0.088 ng
 RT: 25.725 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

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)

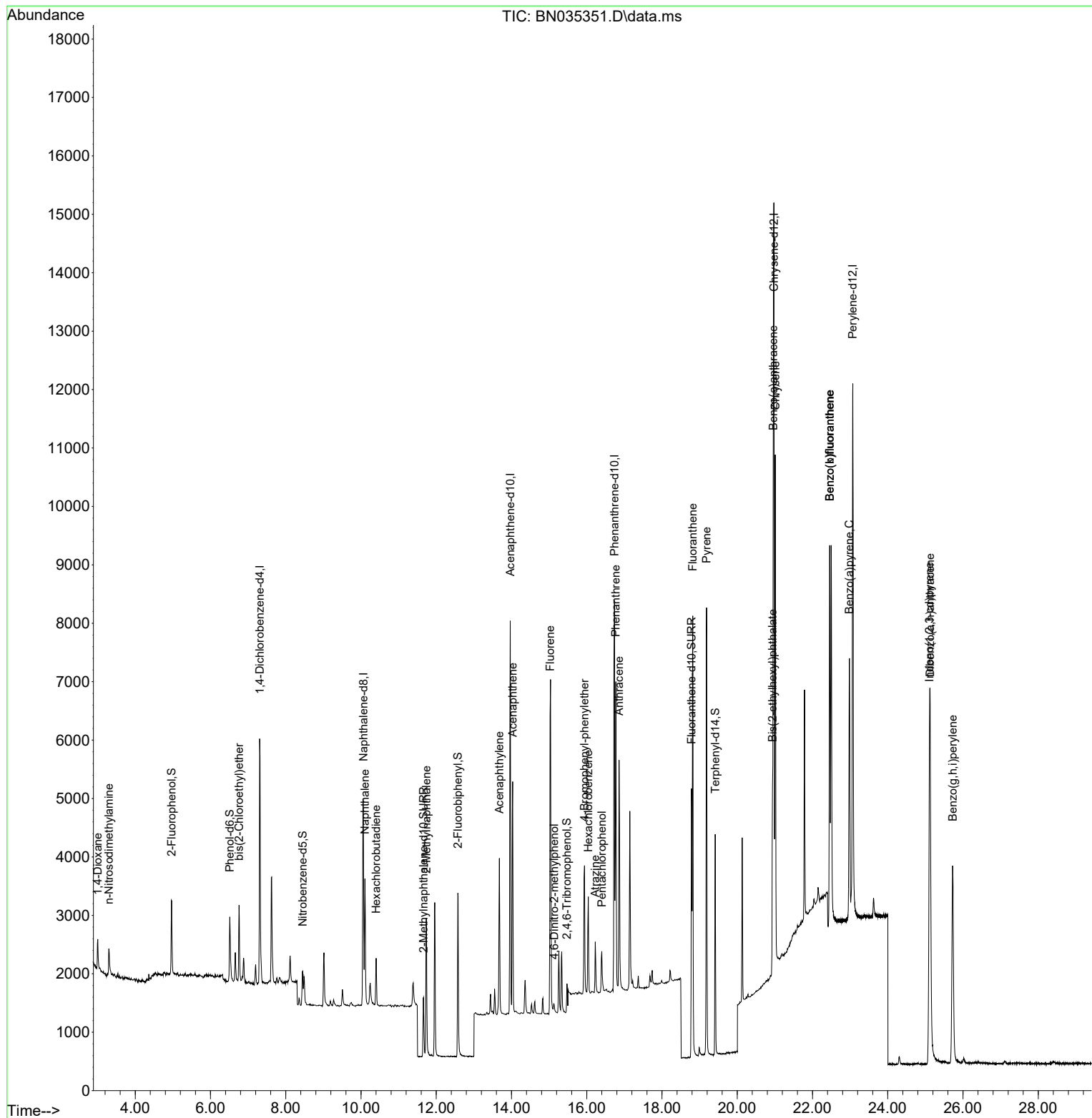
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	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

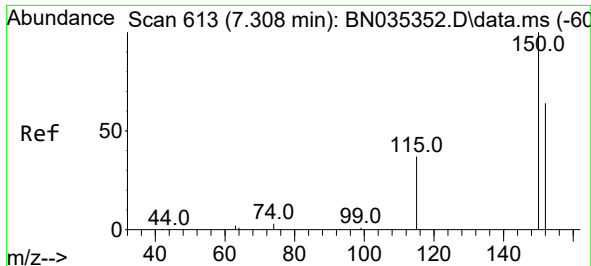
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

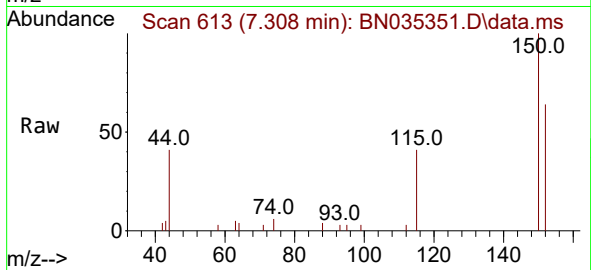
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





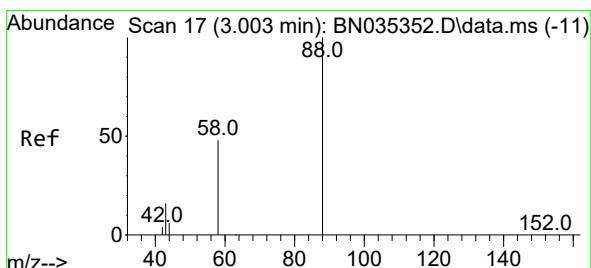
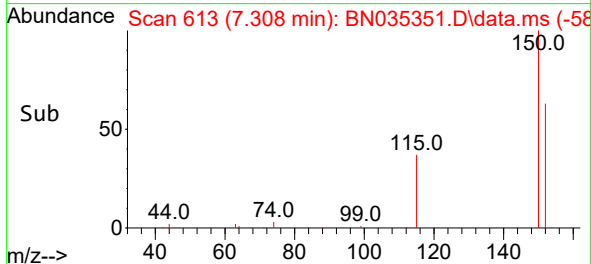
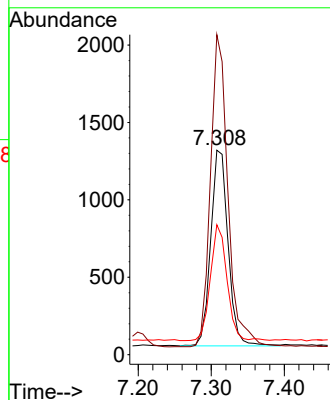
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:152 Resp: 2084

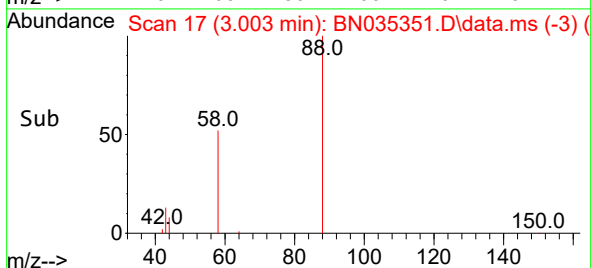
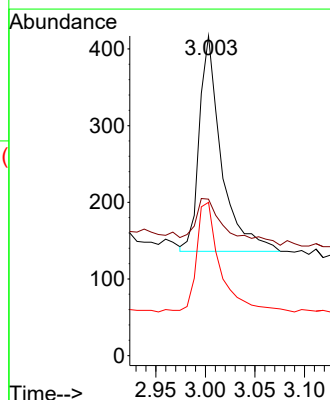
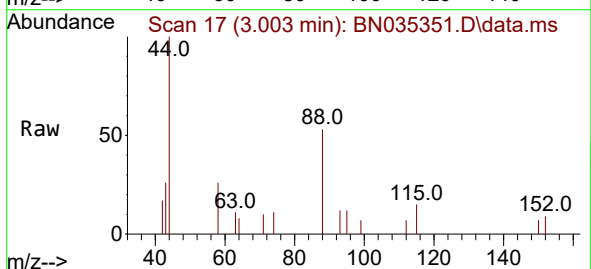
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

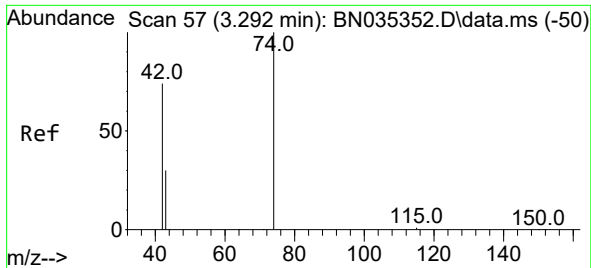


#2
 1,4-Dioxane
 Concen: 0.230 ng
 RT: 3.003 min Scan# 17
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

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

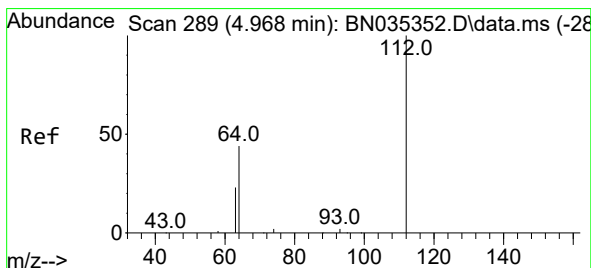
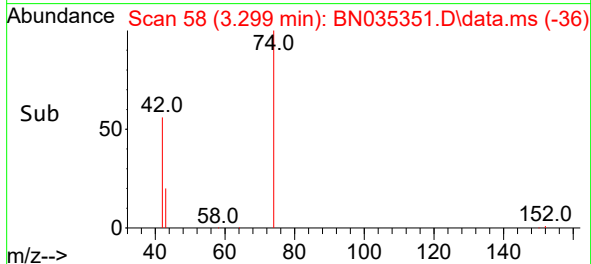
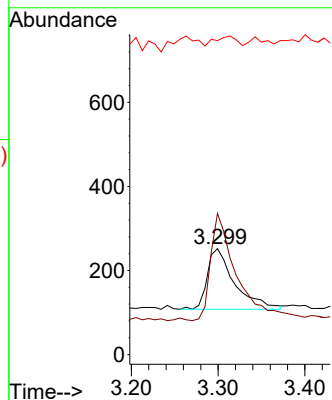
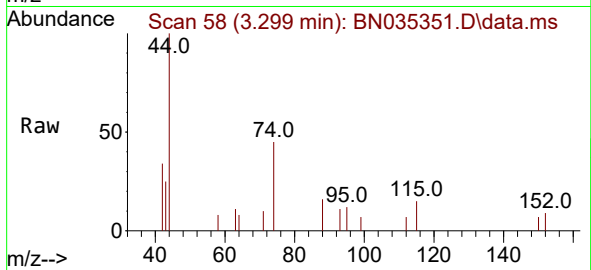




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

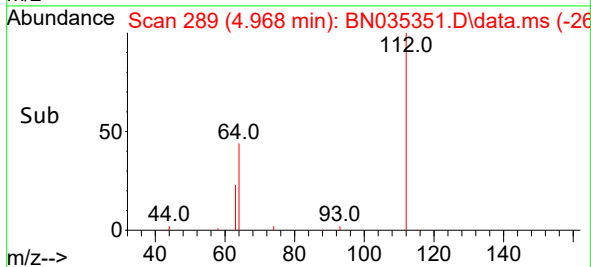
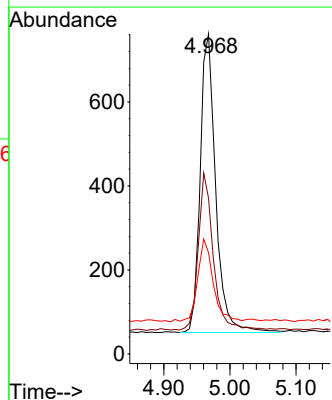
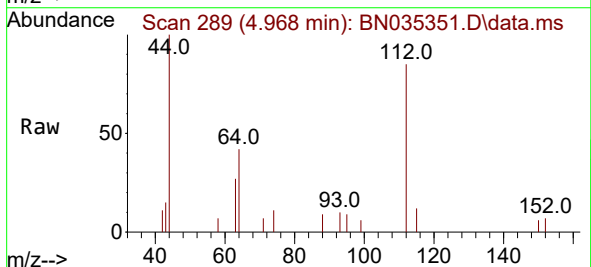
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

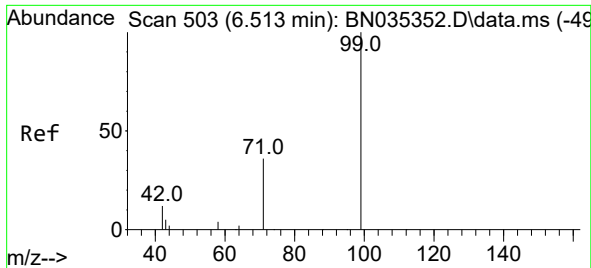
Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4#



#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

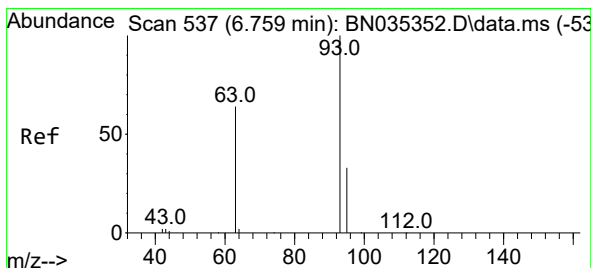
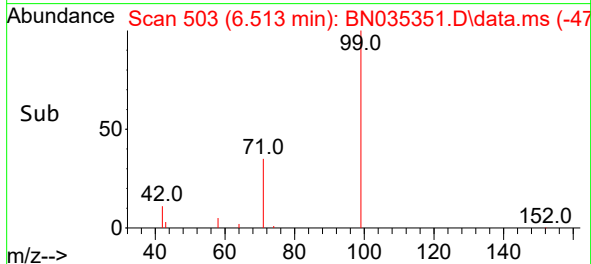
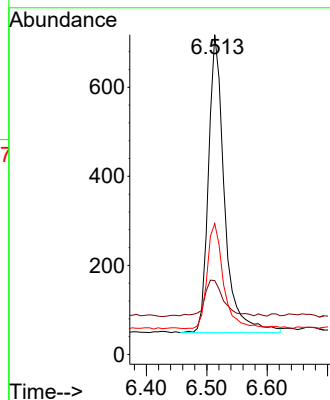
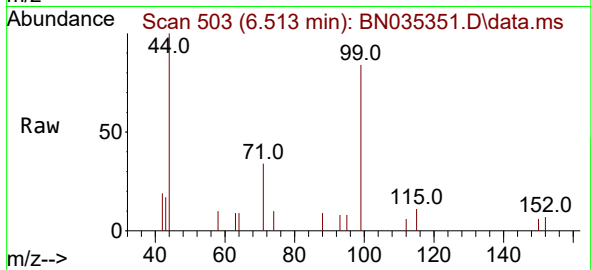




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

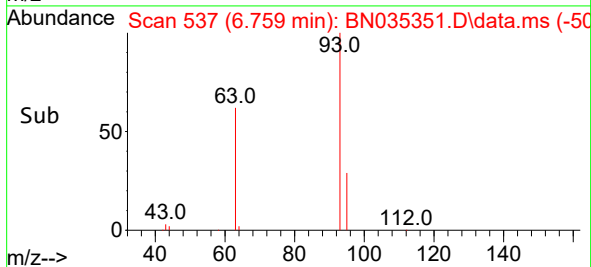
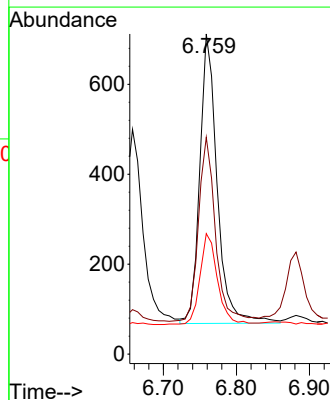
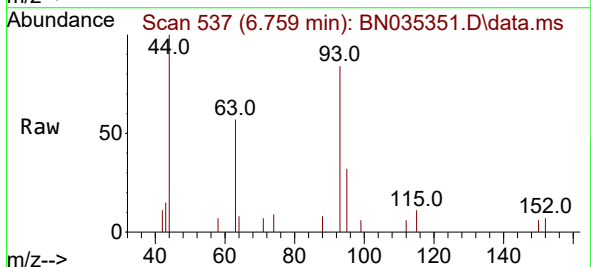
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

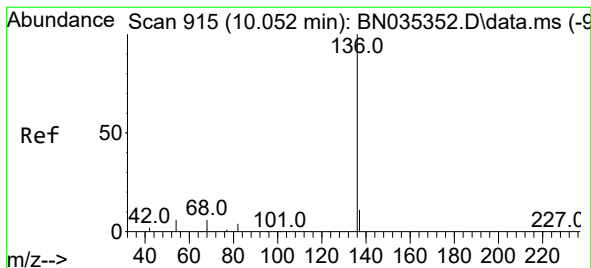
Tgt Ion:	99	Resp:	1236
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



#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# 91

Delta R.T. 0.011 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5334

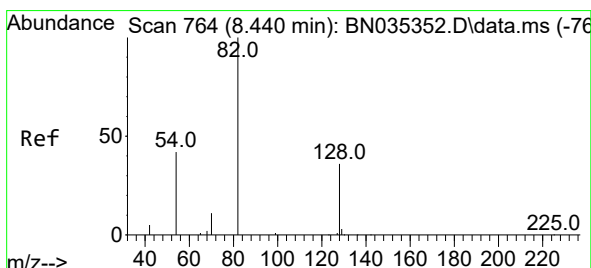
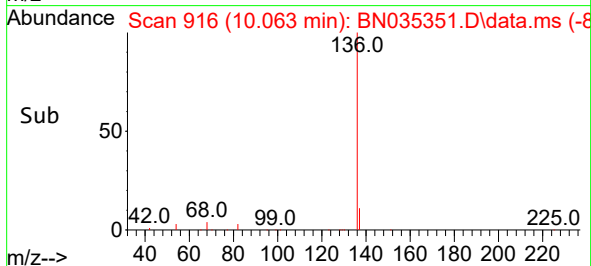
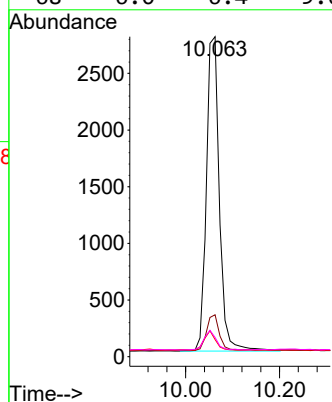
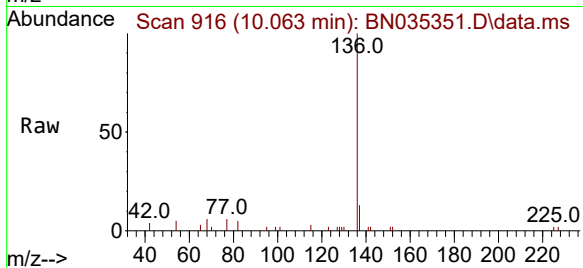
Ion Ratio Lower Upper

136 100

137 13.1 10.2 15.2

54 5.3 6.1 9.1#

68 6.0 6.4 9.6#



#8

Nitrobenzene-d5

Concen: 0.174 ng

RT: 8.450 min Scan# 765

Delta R.T. 0.011 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

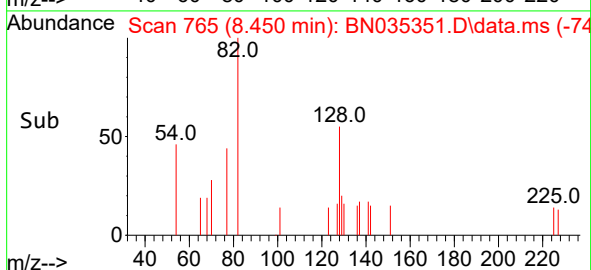
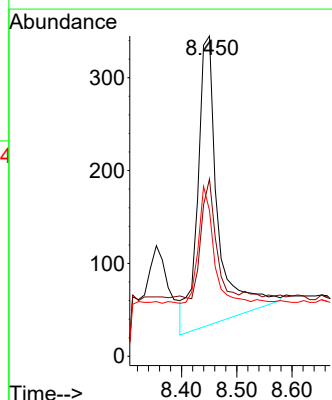
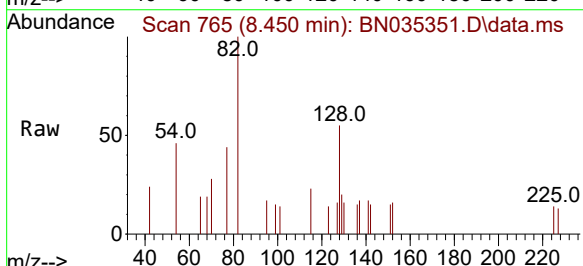
Tgt Ion: 82 Resp: 806

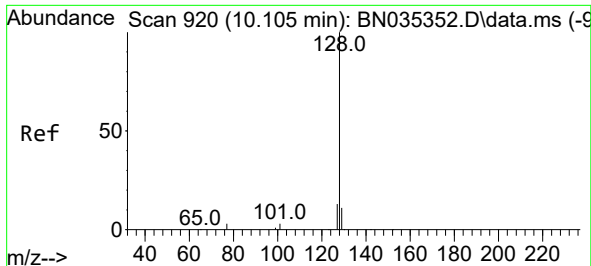
Ion Ratio Lower Upper

82 100

128 55.4 33.4 50.0#

54 45.5 36.7 55.1

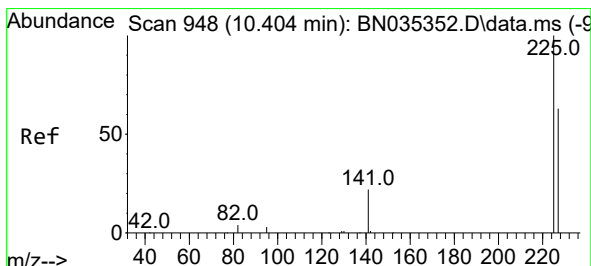
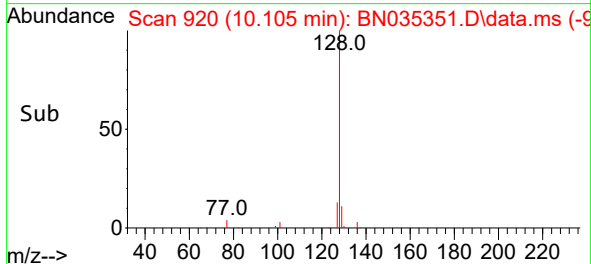
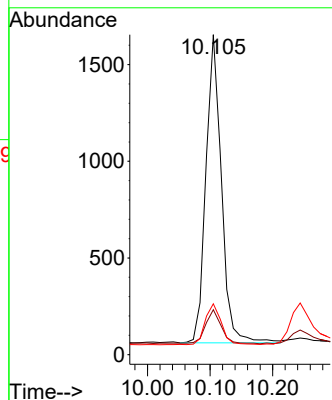
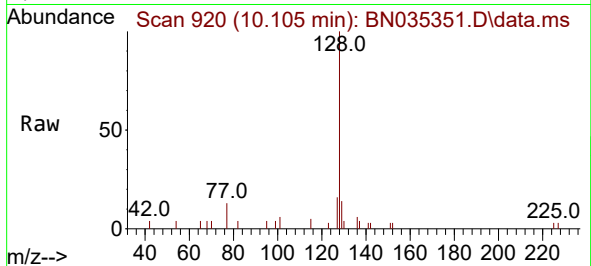




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

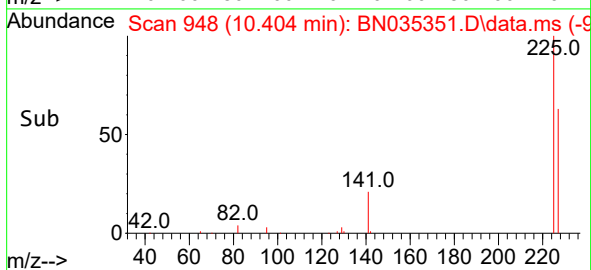
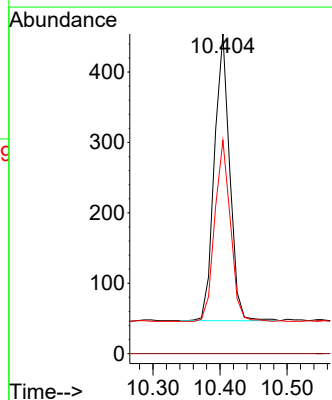
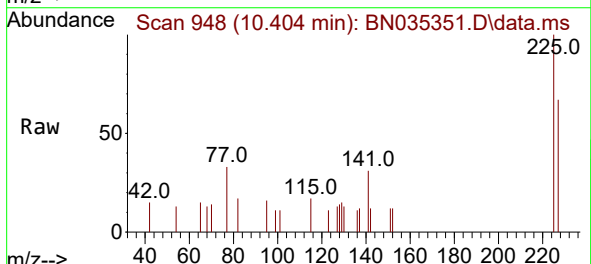
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

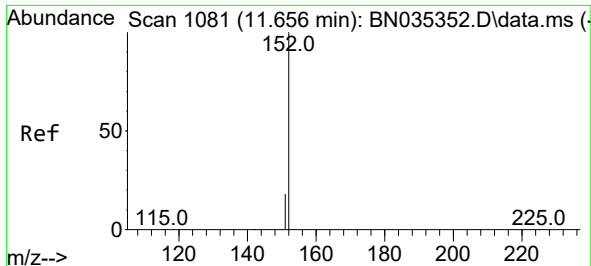
Tgt Ion:128 Resp: 2744
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2



#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 :

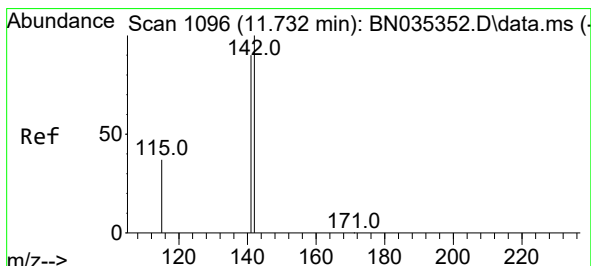
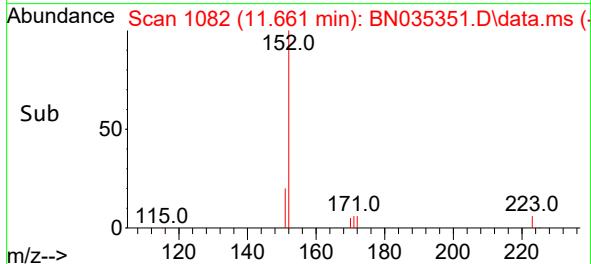
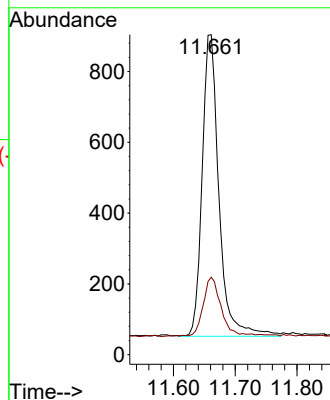
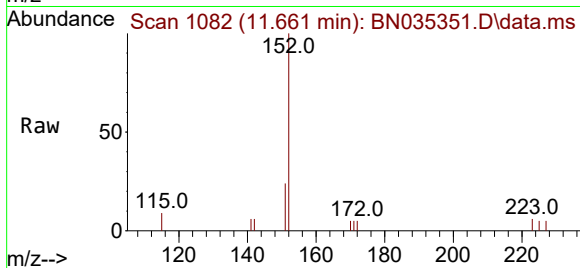
SSTDICC0.2

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

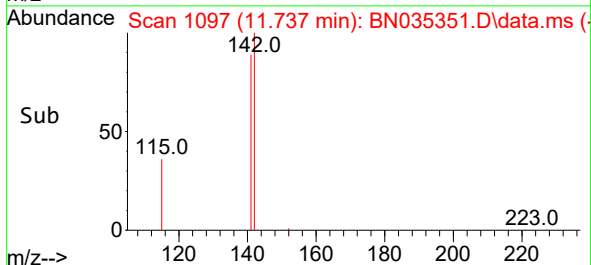
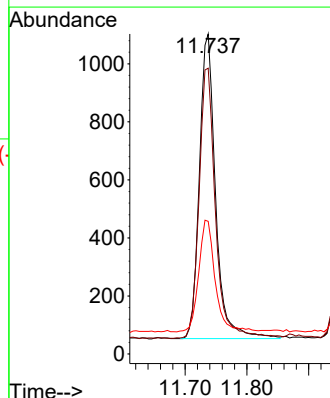
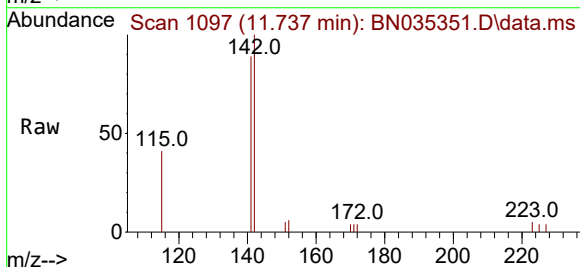
Tgt Ion:142 Resp: 1910

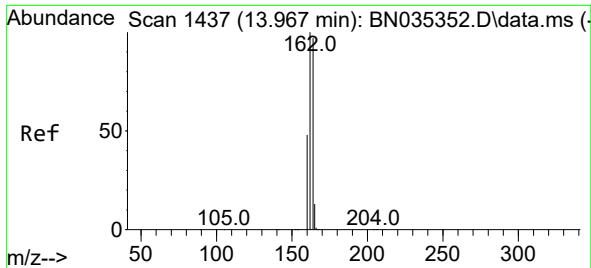
Ion Ratio Lower Upper

142 100

141 89.3 72.2 108.4

115 41.4 31.4 47.0

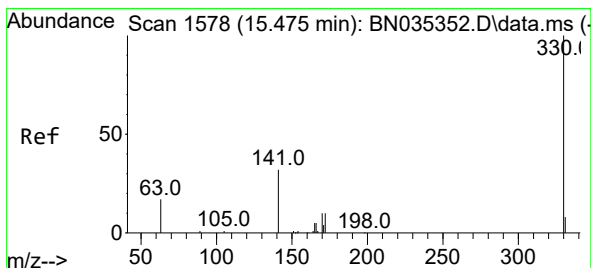
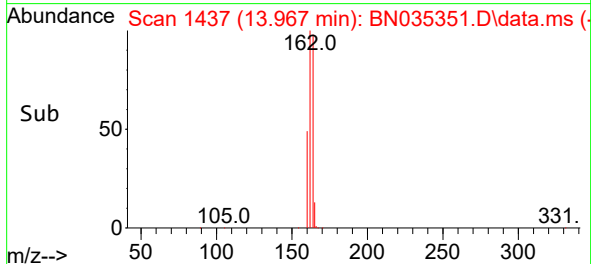
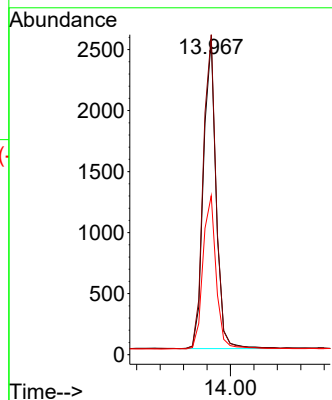
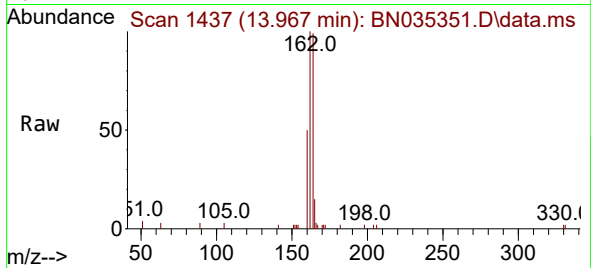




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

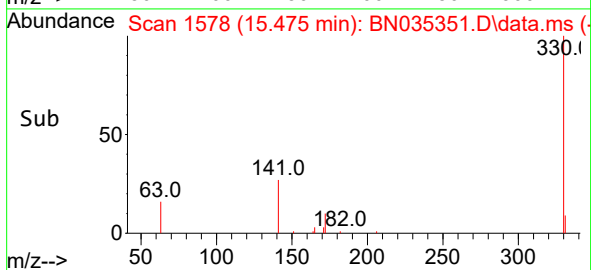
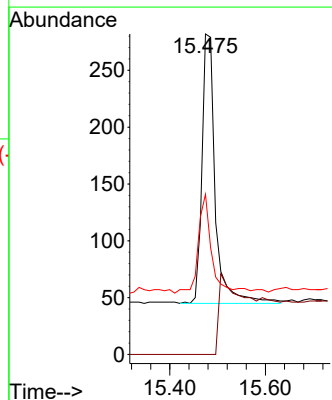
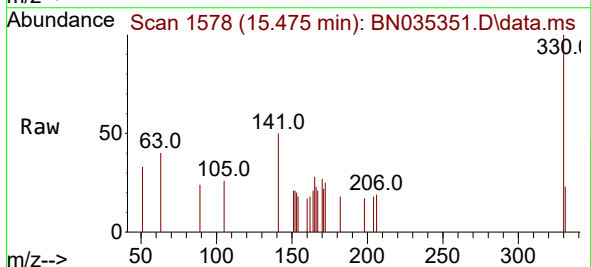
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

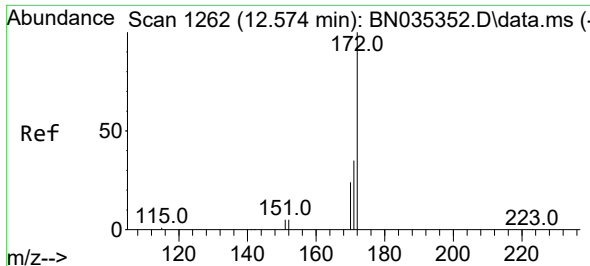
Tgt Ion:164 Resp: 3808
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1



#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

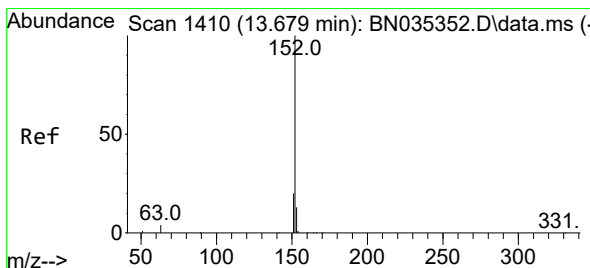
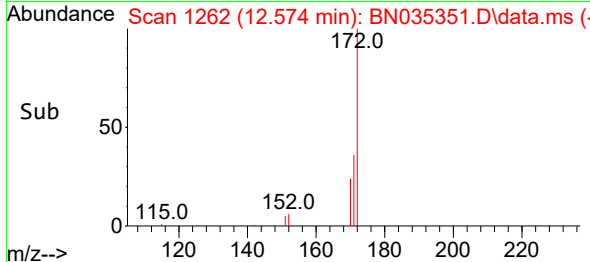
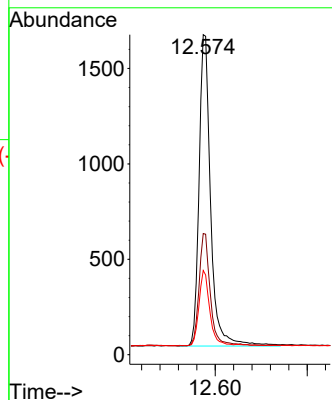
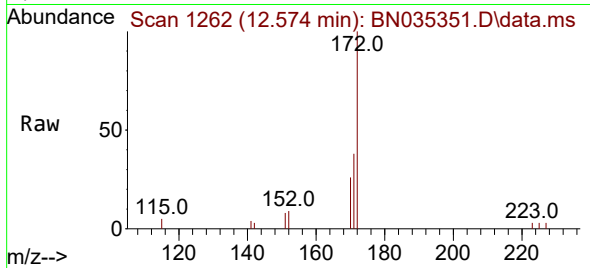




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

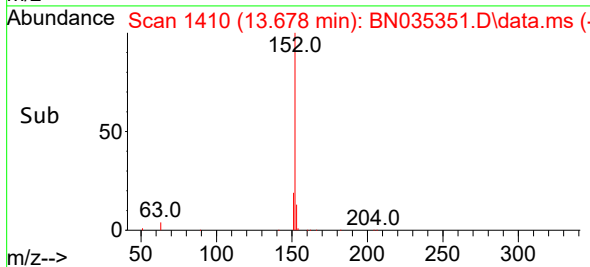
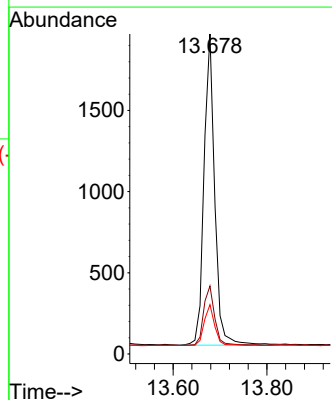
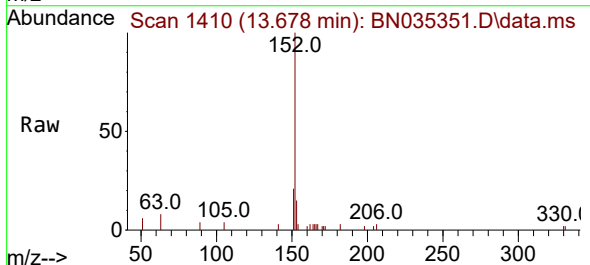
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

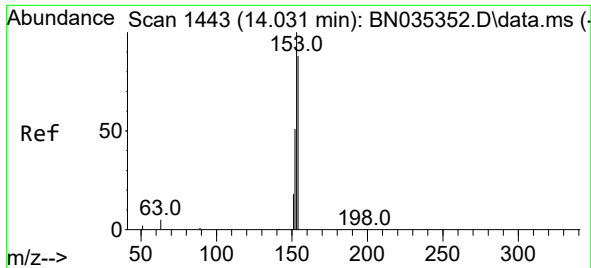
Tgt Ion:172 Resp: 2838
Ion Ratio Lower Upper
172 100
171 37.9 29.0 43.4
170 26.3 19.8 29.8



#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

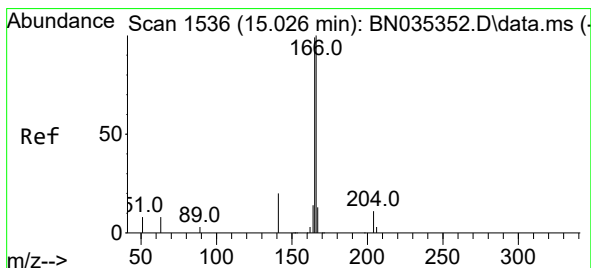
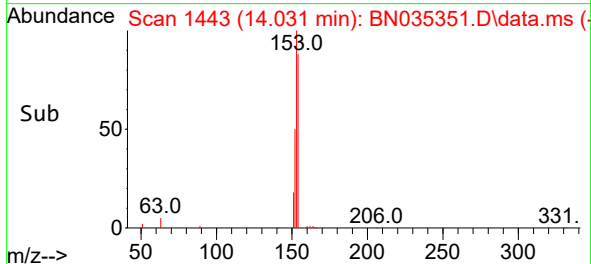
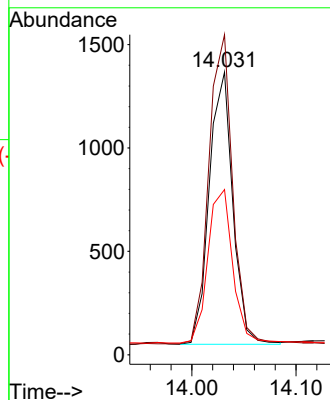
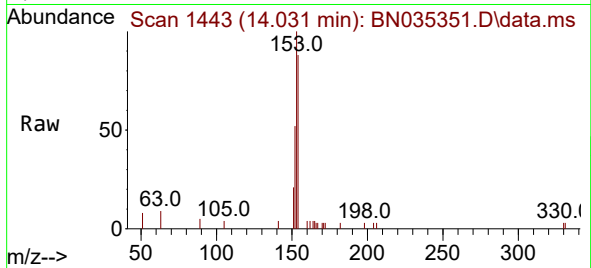




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

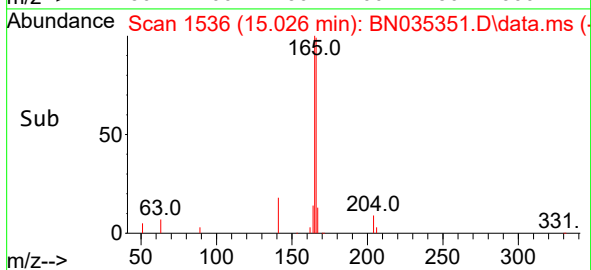
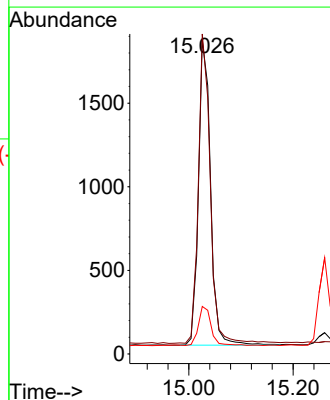
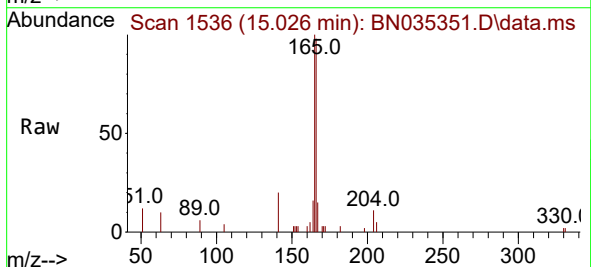
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

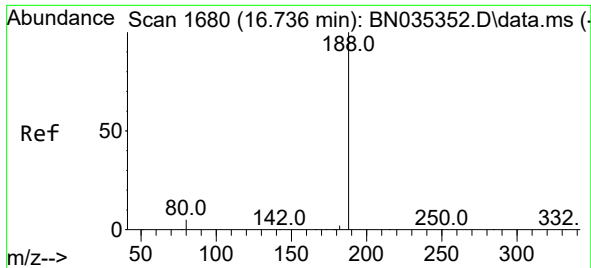
Tgt Ion:154 Resp: 2064
Ion Ratio Lower Upper
154 100
153 115.2 92.6 139.0
152 60.7 49.0 73.6



#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

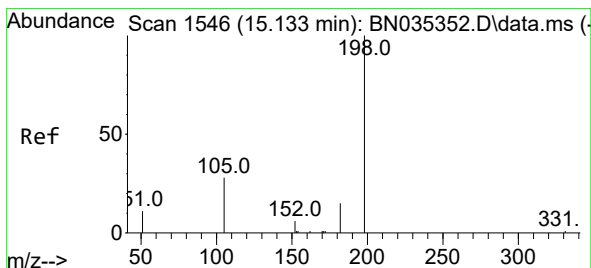
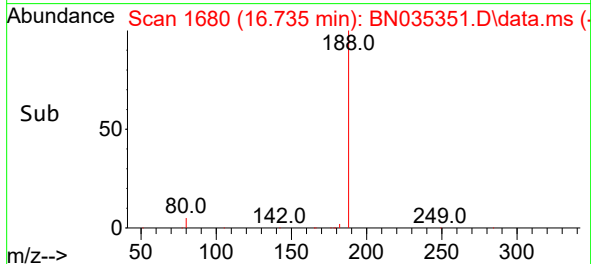
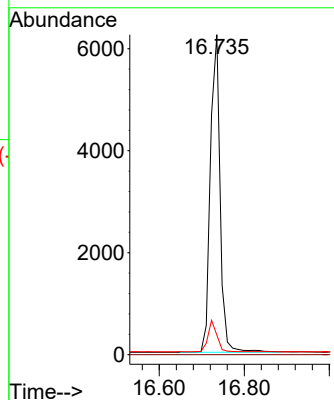
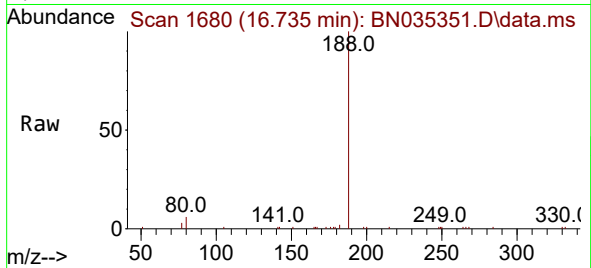




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

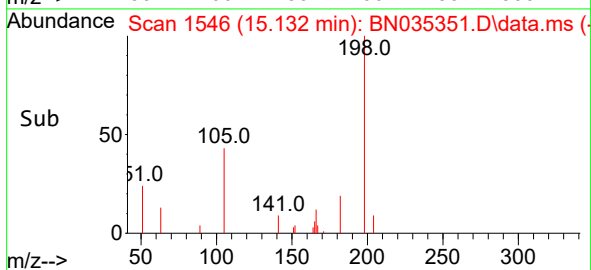
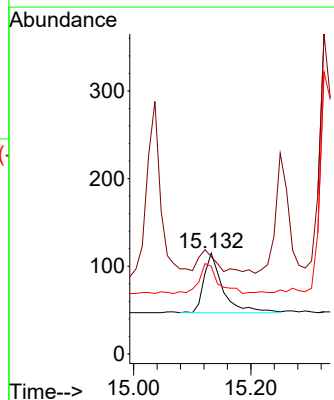
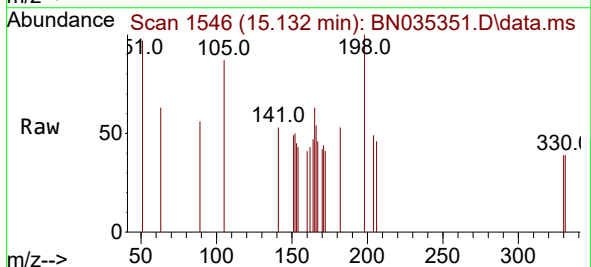
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

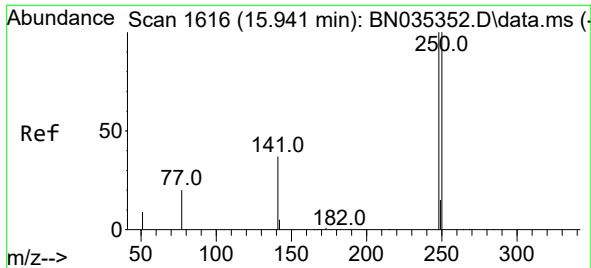
Tgt Ion:188 Resp: 9904
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.2 4.6 6.8



#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#

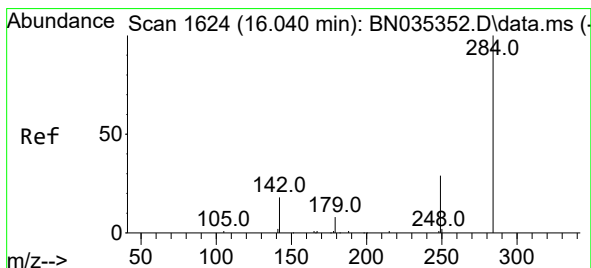
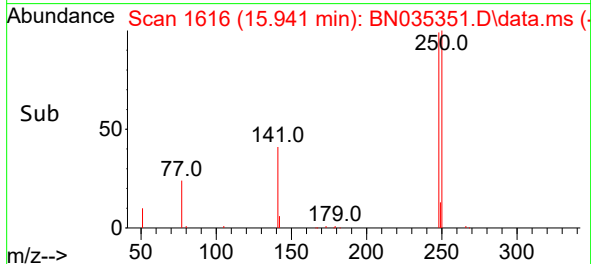
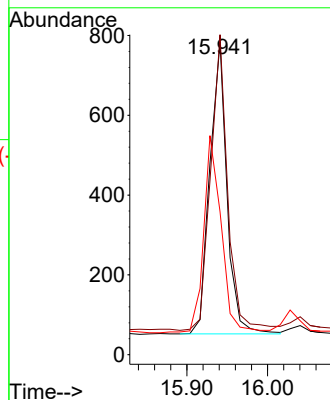
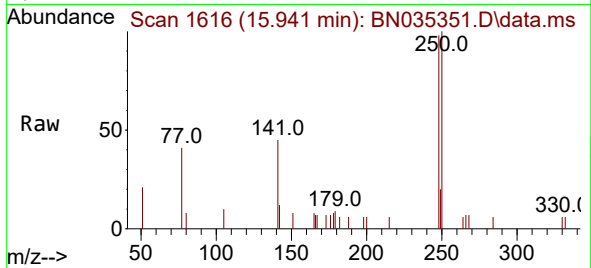




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

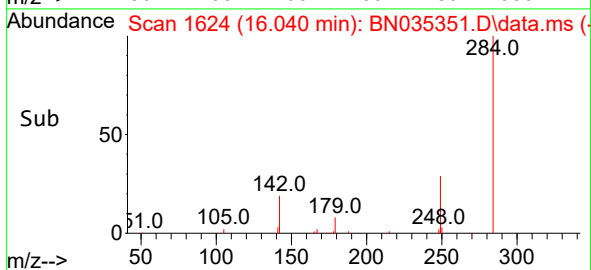
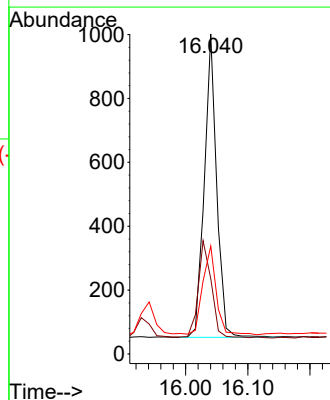
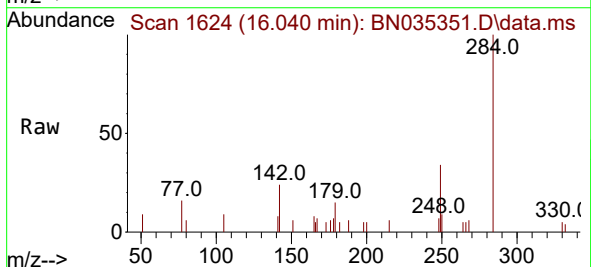
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

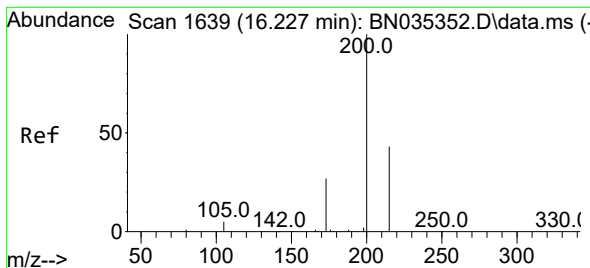
Tgt Ion:	248	Resp:	1081
Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3



#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

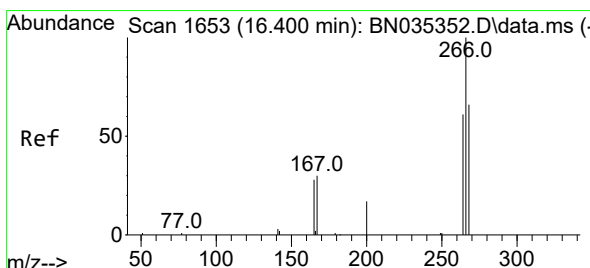
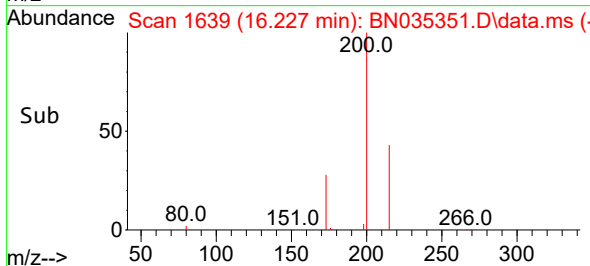
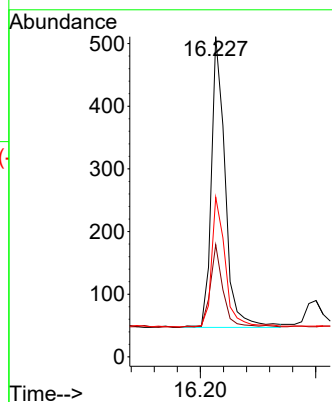
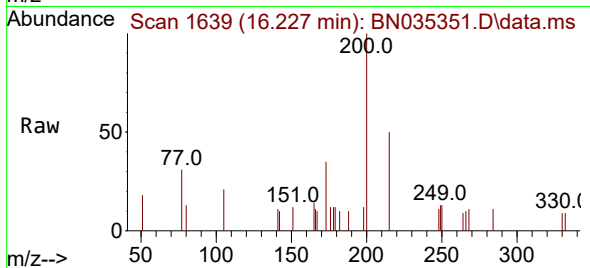
Tgt Ion:200 Resp: 770

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

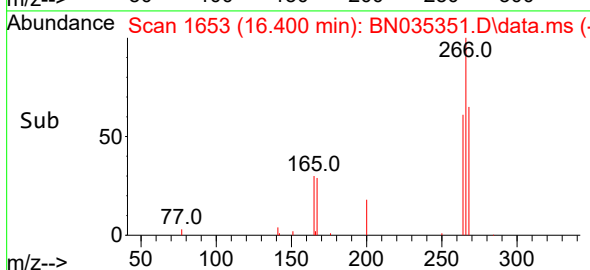
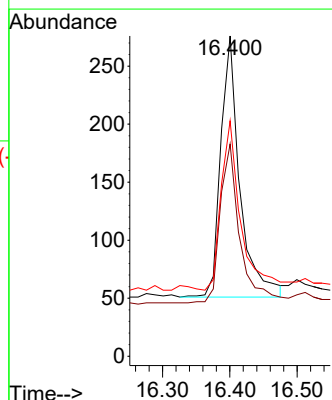
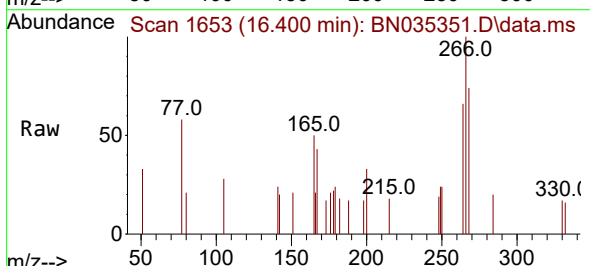
Tgt Ion:266 Resp: 445

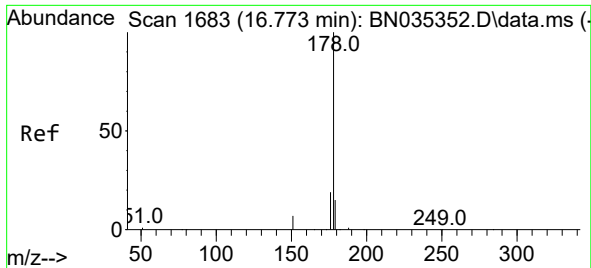
Ion Ratio Lower Upper

266 100

264 62.7 42.3 63.5

268 67.2 43.3 64.9#

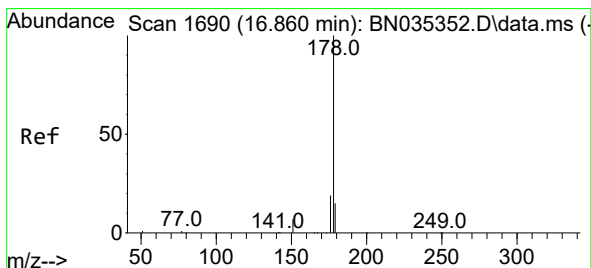
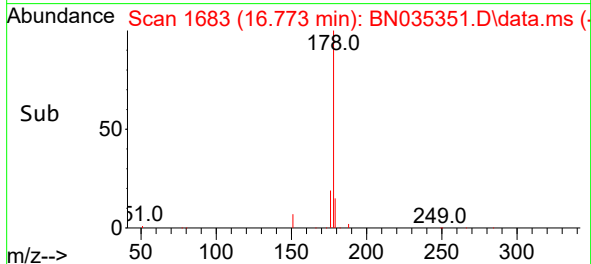
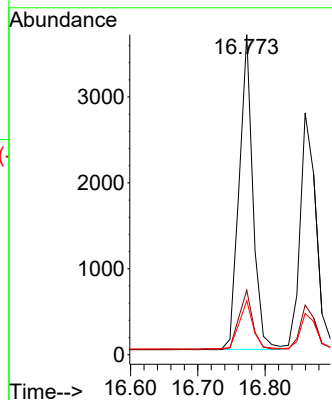
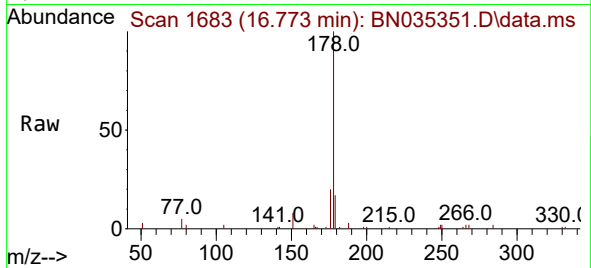




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

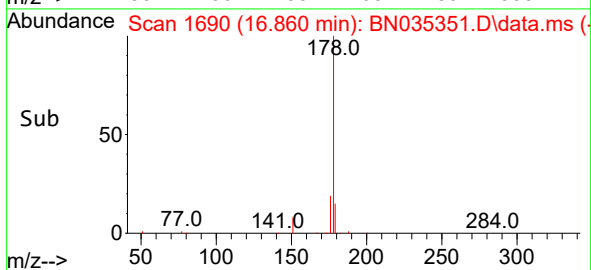
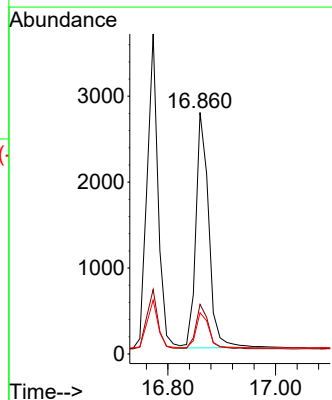
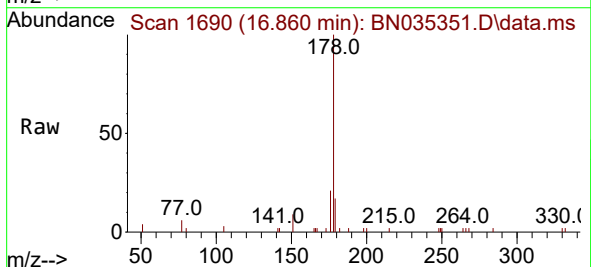
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

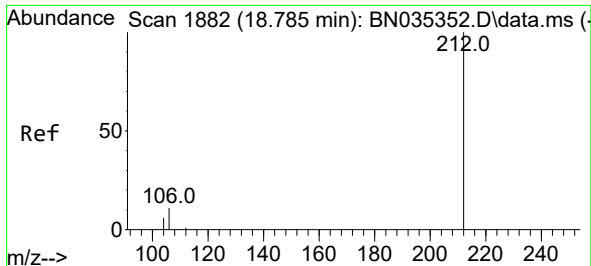
Tgt Ion:178 Resp: 5182
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5



#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

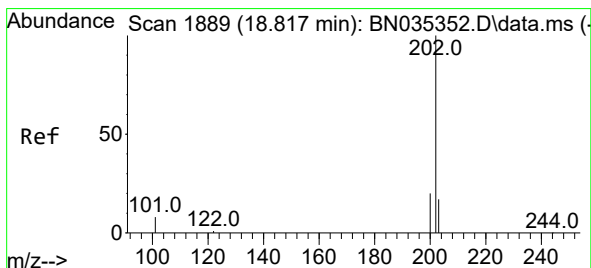
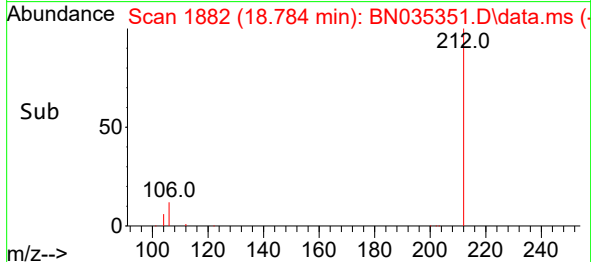
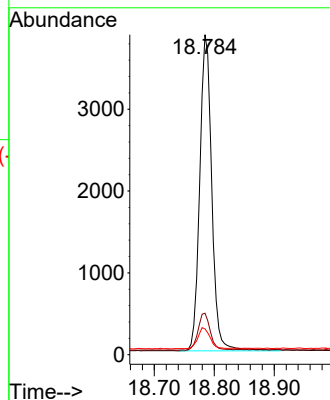
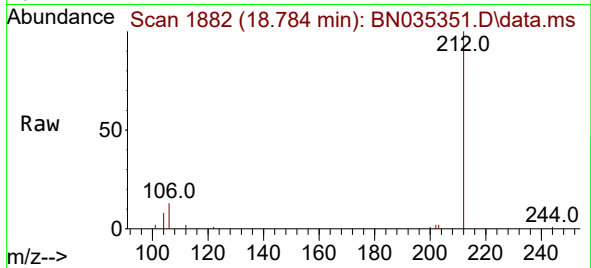




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

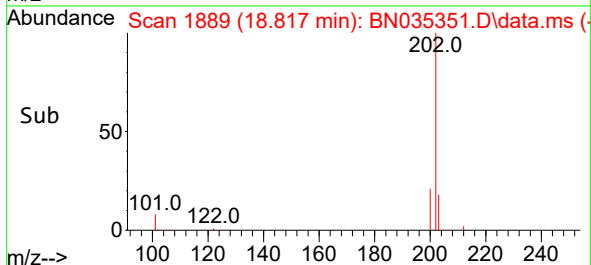
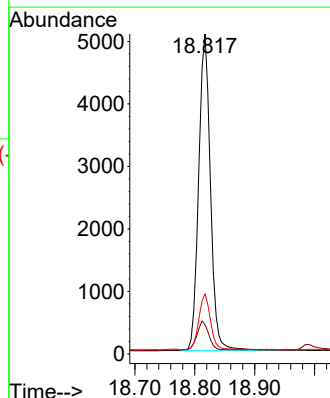
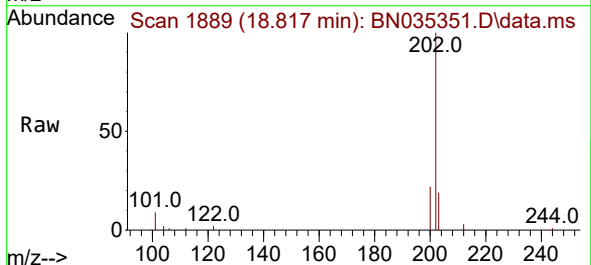
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

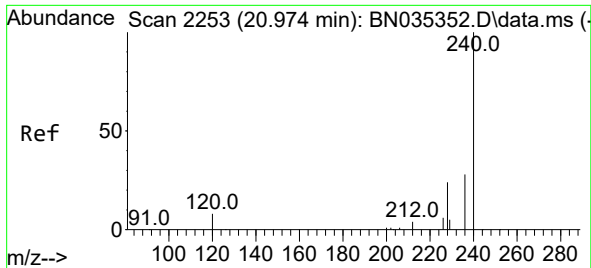
Tgt Ion:212 Resp: 5379
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.9 5.3 7.9



#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

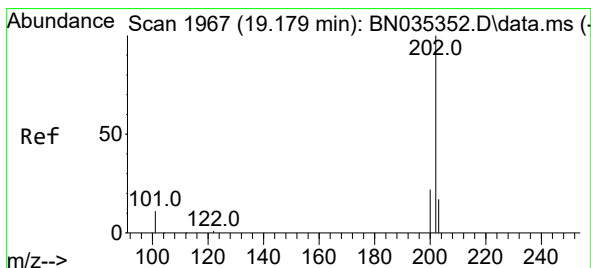
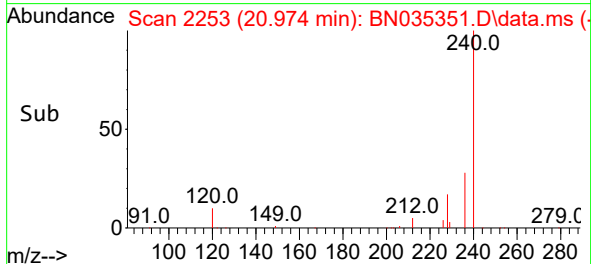
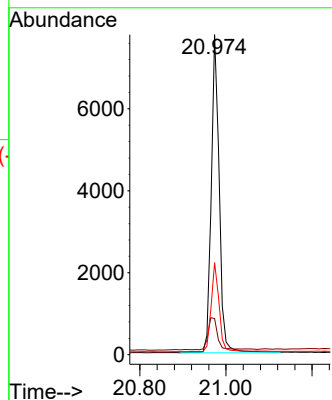
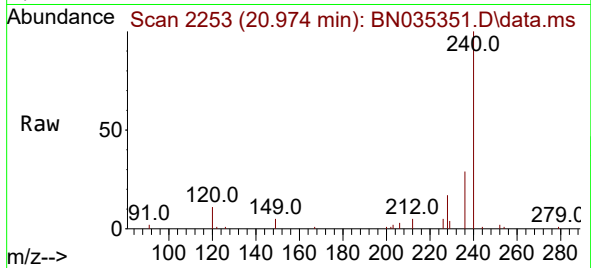




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

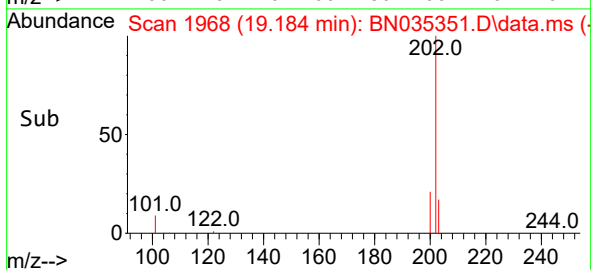
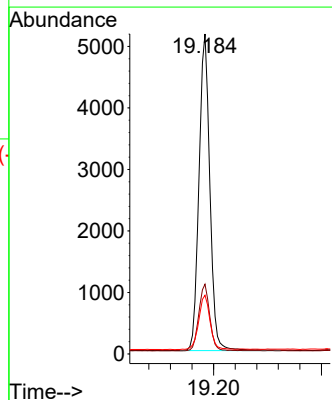
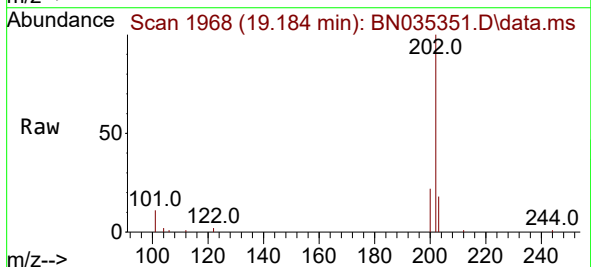
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

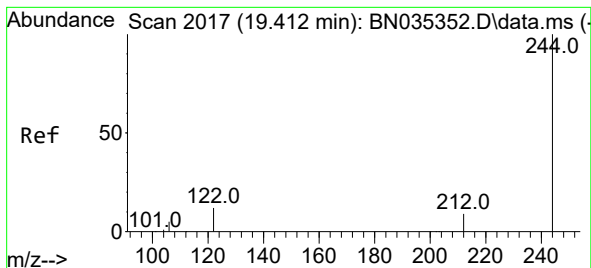
Tgt Ion:240 Resp: 9963
Ion Ratio Lower Upper
240 100
120 11.3 7.9 11.9
236 28.8 22.9 34.3



#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

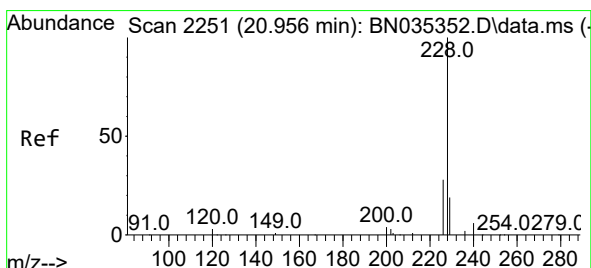
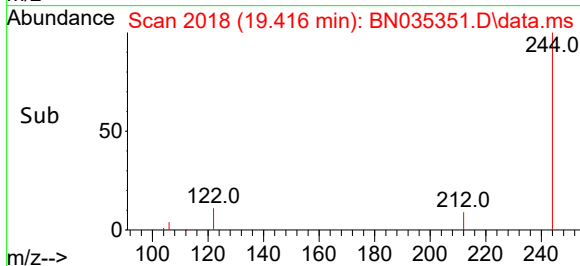
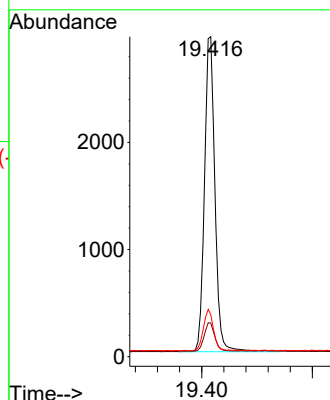
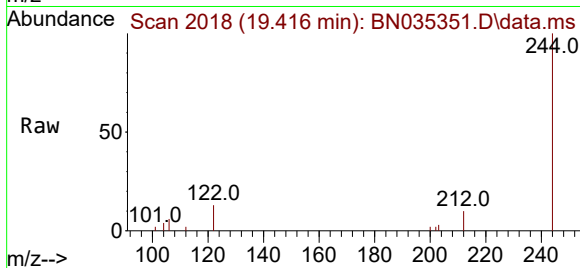
Tgt Ion:244 Resp: 3871

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

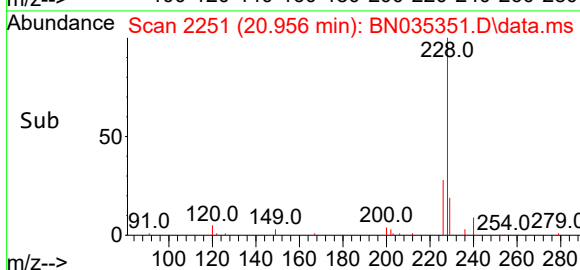
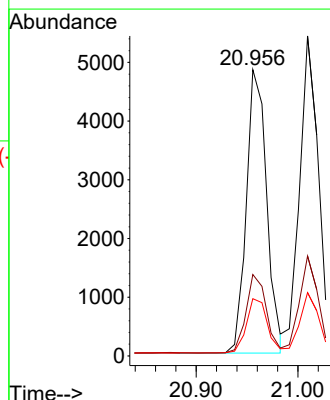
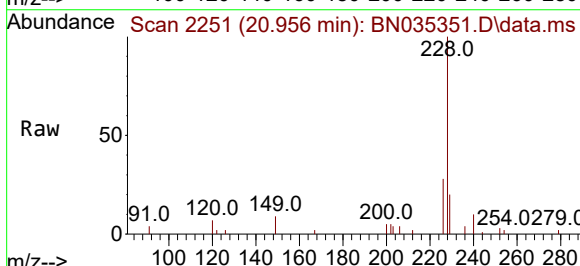
Tgt Ion:228 Resp: 6691

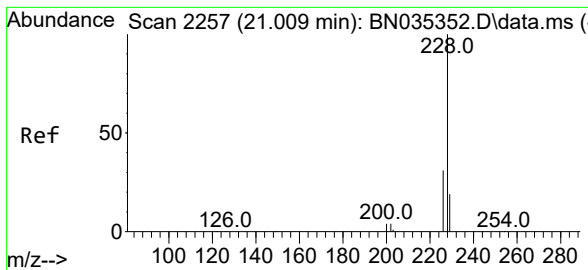
Ion Ratio Lower Upper

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

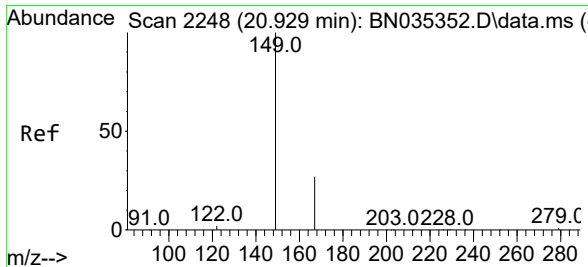
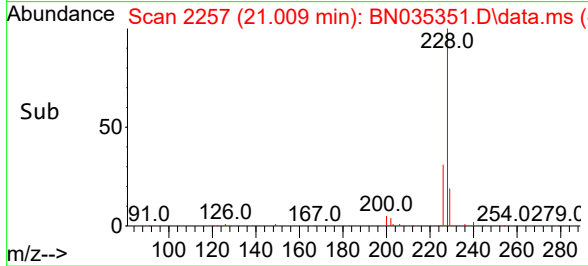
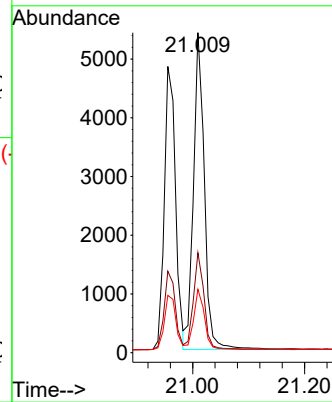
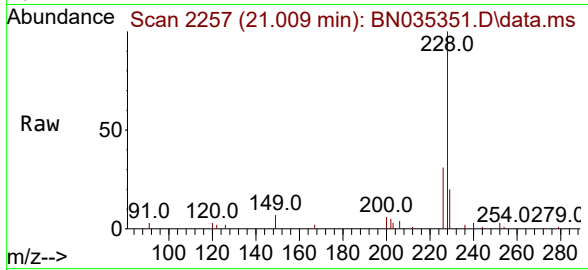
Tgt Ion:228 Resp: 7234

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

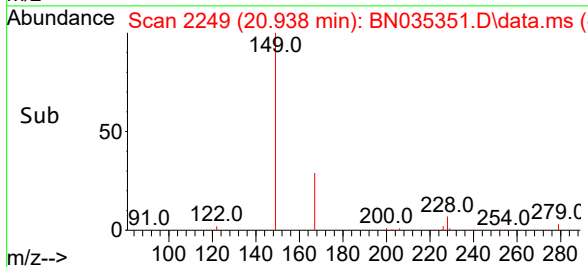
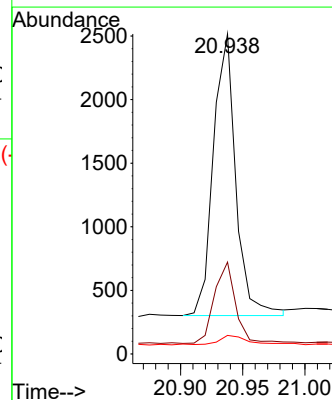
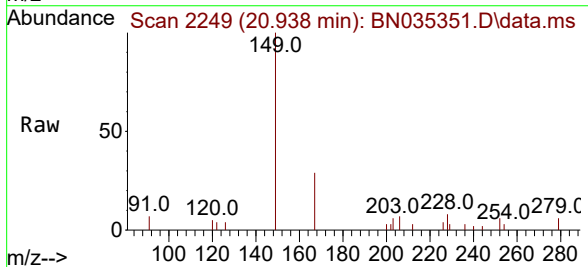
Tgt Ion:149 Resp: 2779

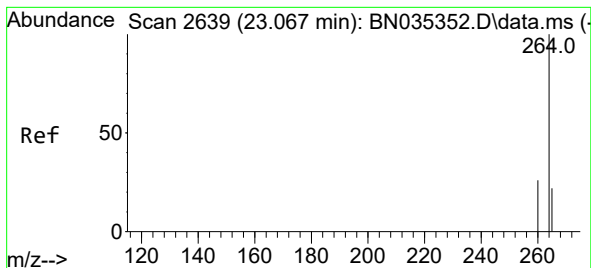
Ion Ratio Lower Upper

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

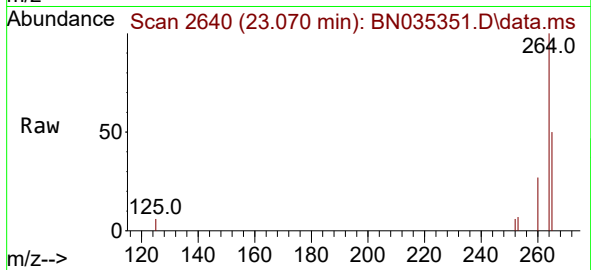
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



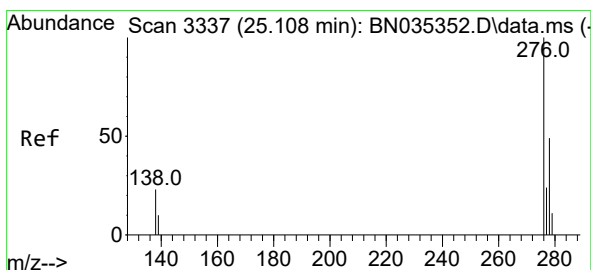
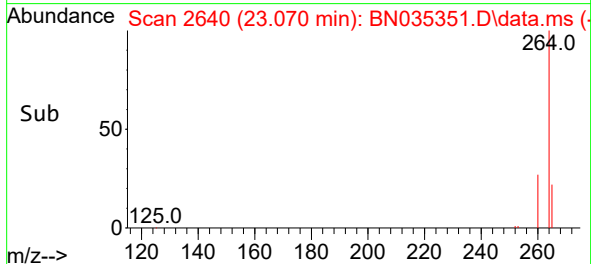
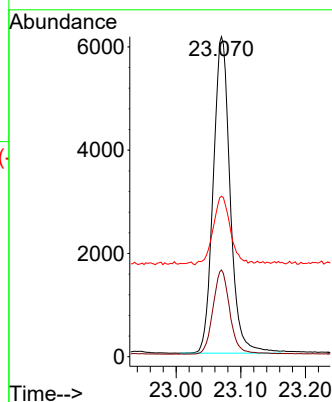
Tgt Ion:264 Resp: 11158

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

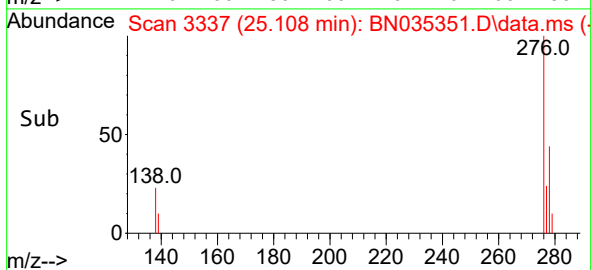
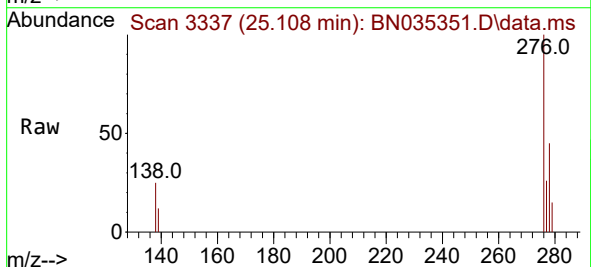
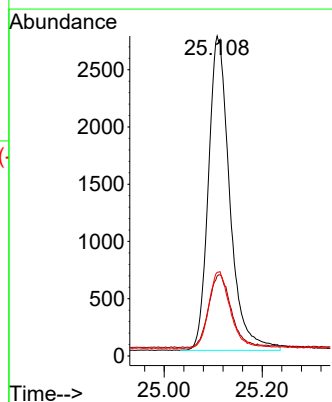
Tgt Ion:276 Resp: 8305

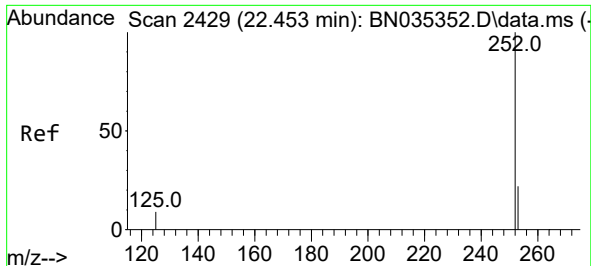
Ion Ratio Lower Upper

276 100

138 24.3 19.4 29.0

277 24.7 19.8 29.6

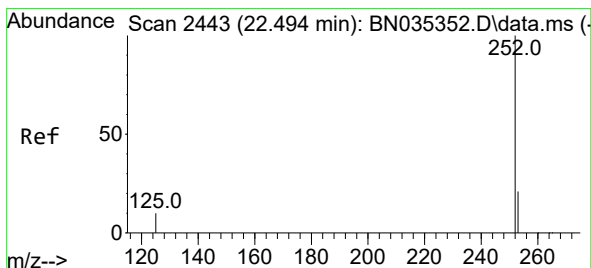
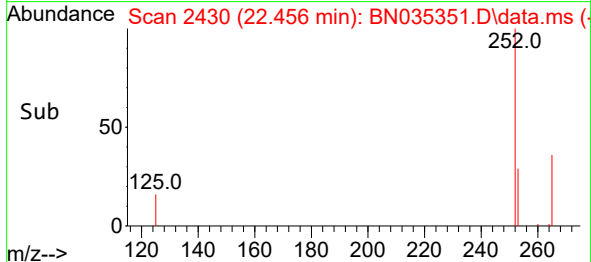
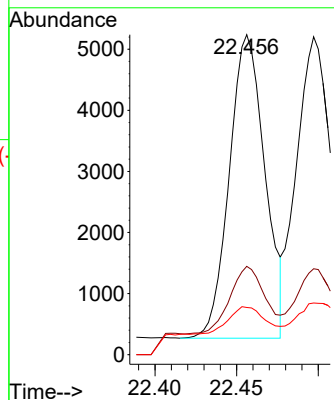
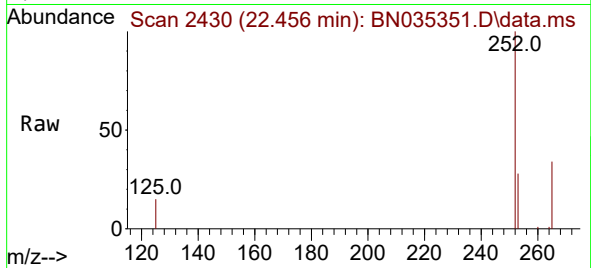




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

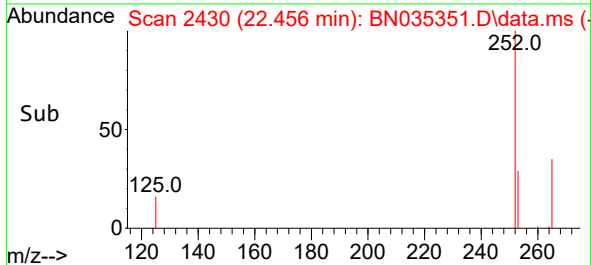
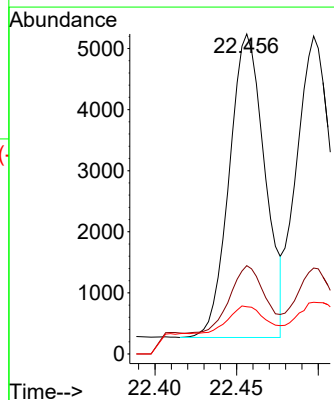
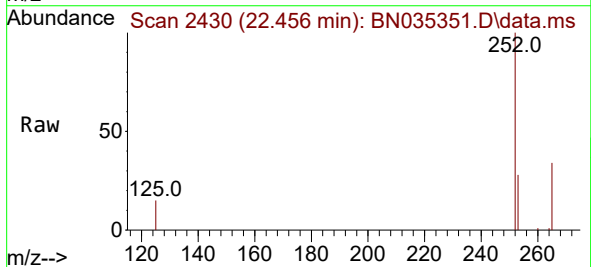
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

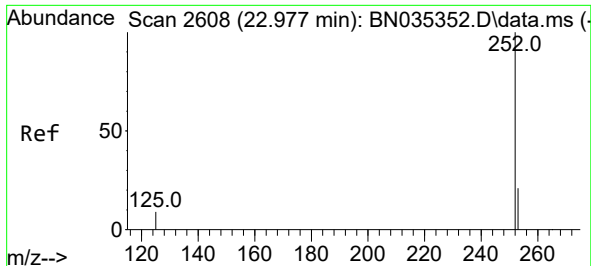
Tgt Ion:252 Resp: 7522
Ion Ratio Lower Upper
252 100
253 27.6 19.6 29.4
125 14.8 9.6 14.4#



#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

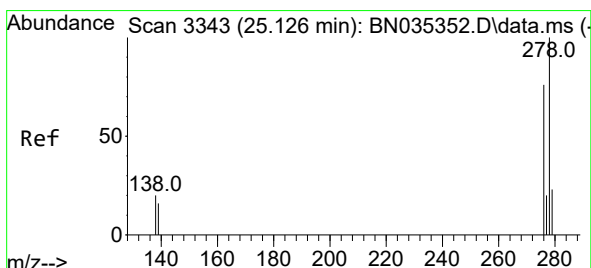
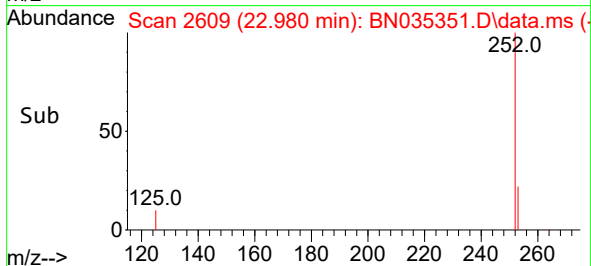
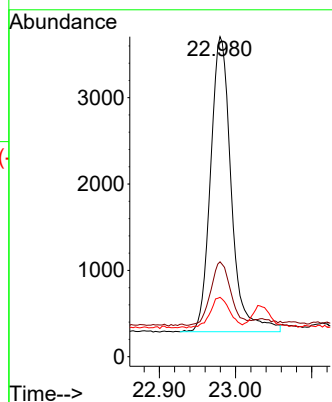
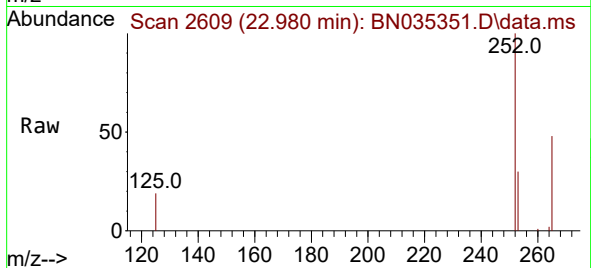
Tgt Ion:252 Resp: 6450

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

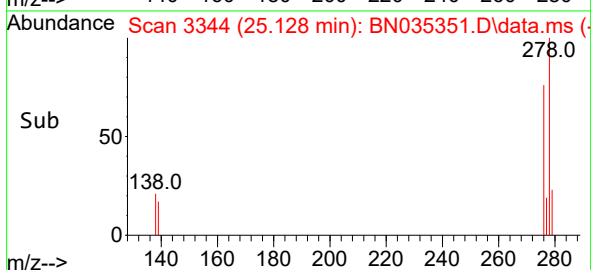
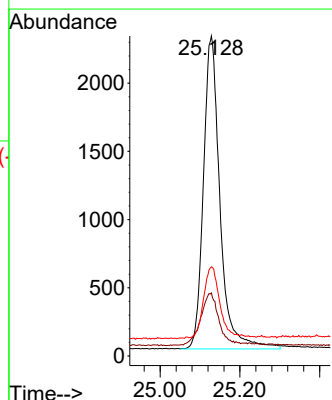
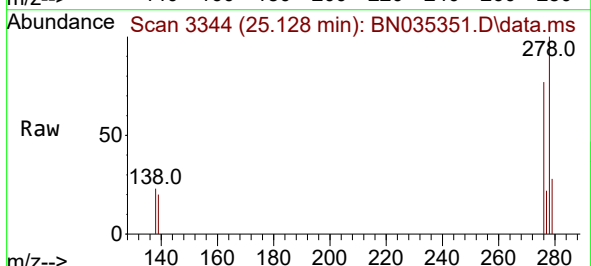
Tgt Ion:278 Resp: 6620

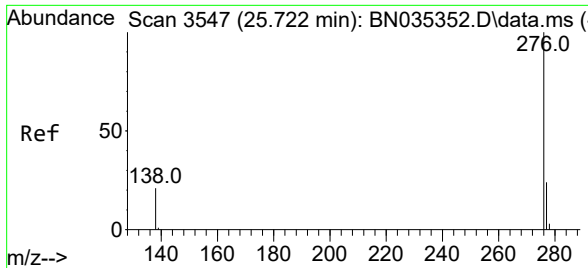
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

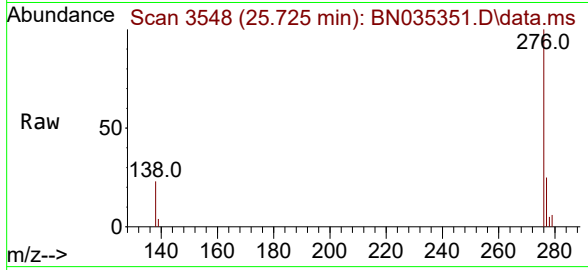
279 27.9 20.5 30.7



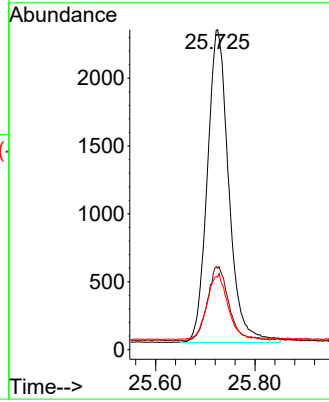
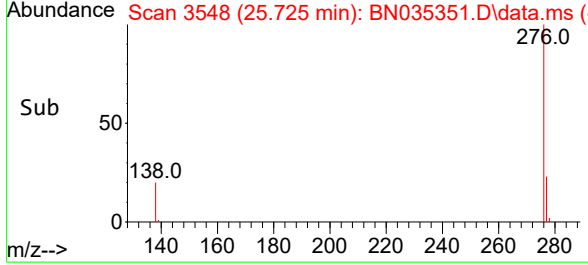


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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)

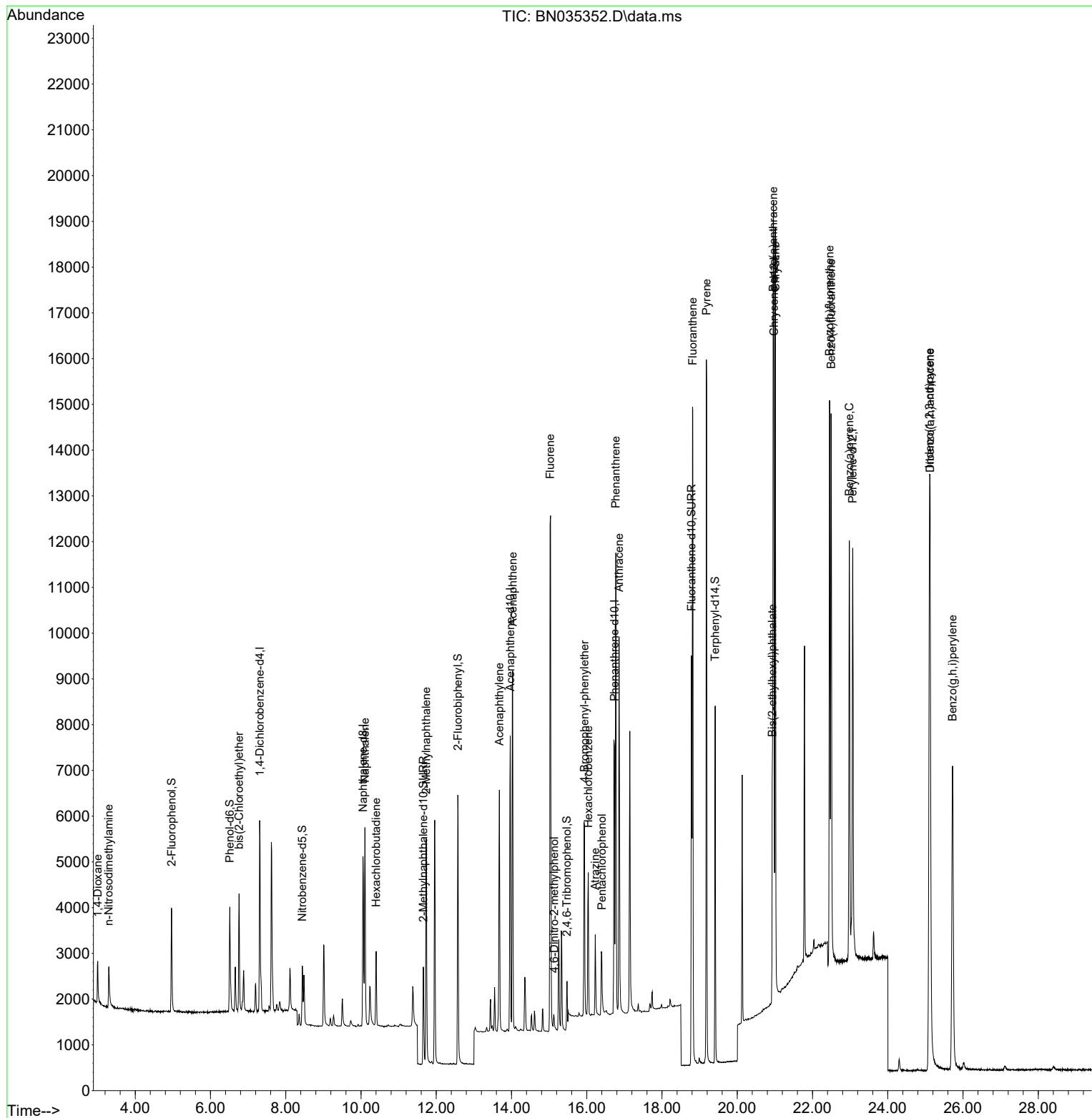
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng	0.00
35) Perylene-d12	23.067	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

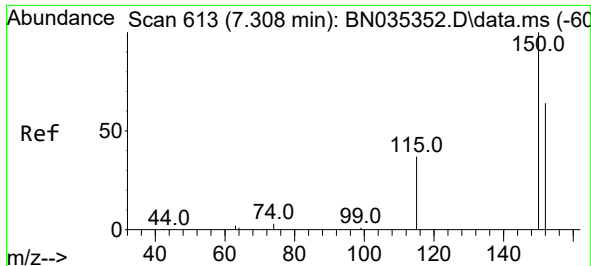
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

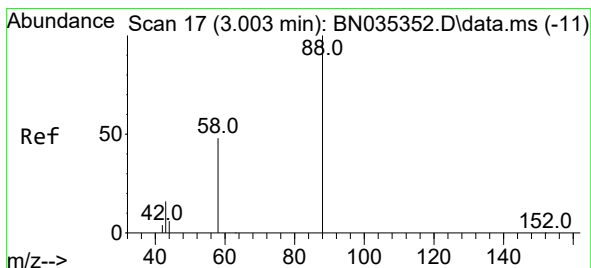
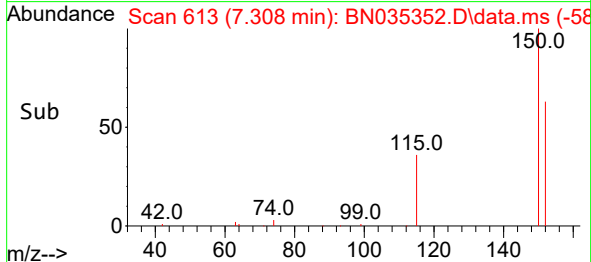
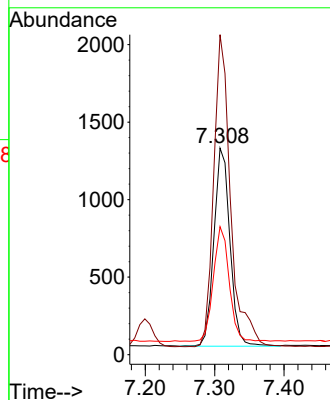
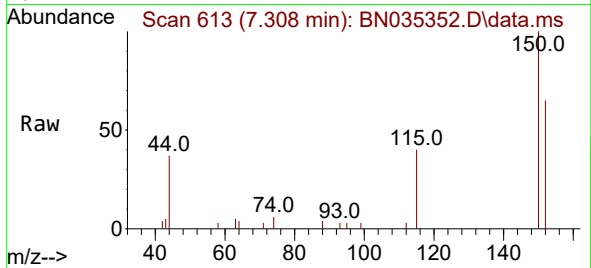




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 613
 Delta R.T. -0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

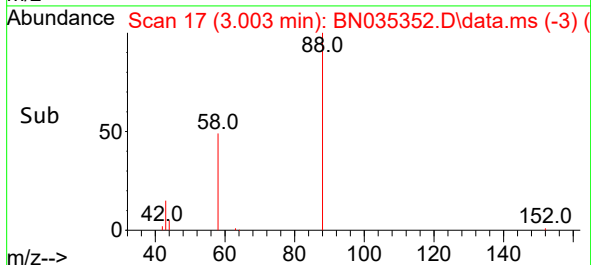
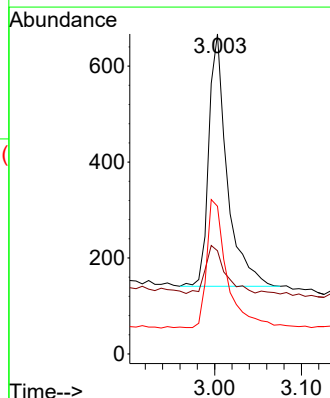
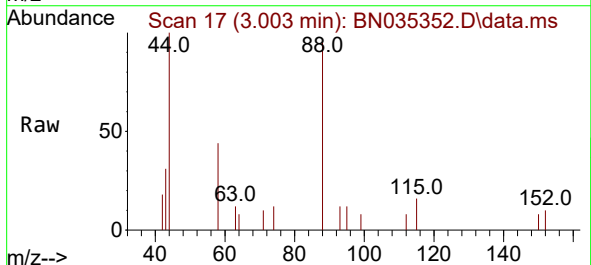
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

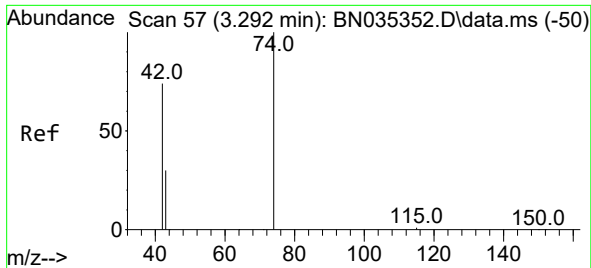
Tgt Ion:152 Resp: 2048
 Ion Ratio Lower Upper
 152 100
 150 155.0 124.0 186.0
 115 62.0 49.6 74.4



#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

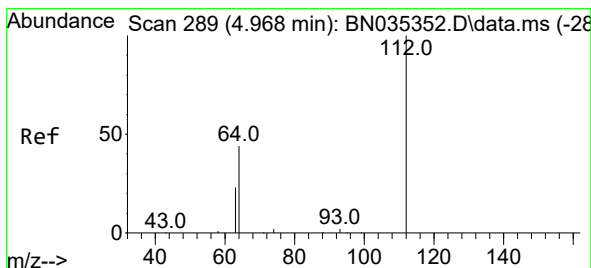
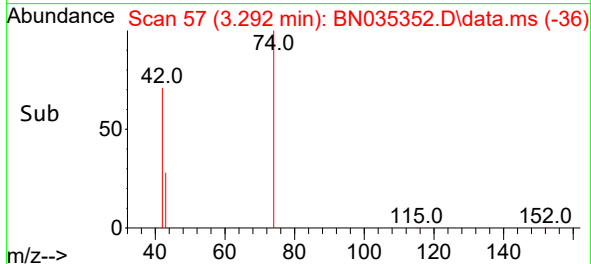
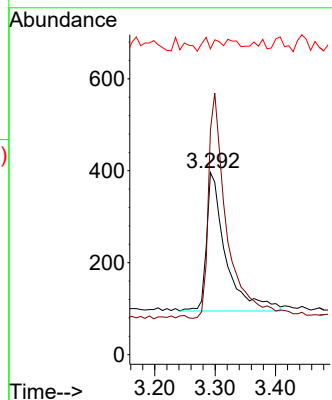
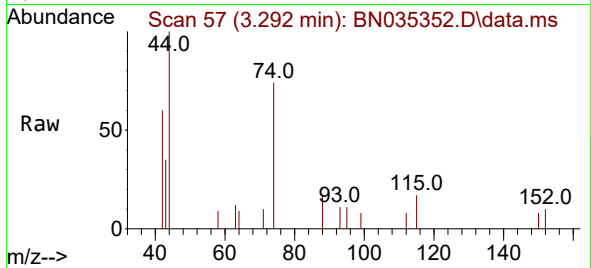




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

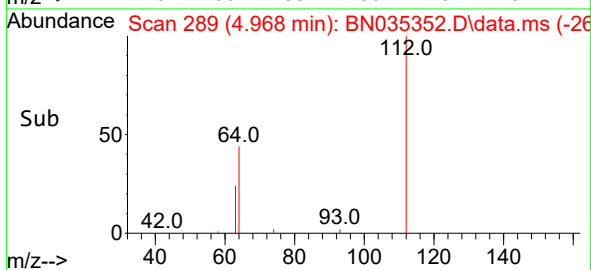
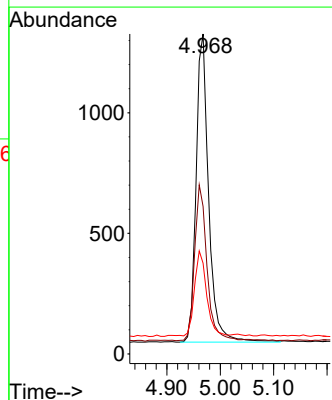
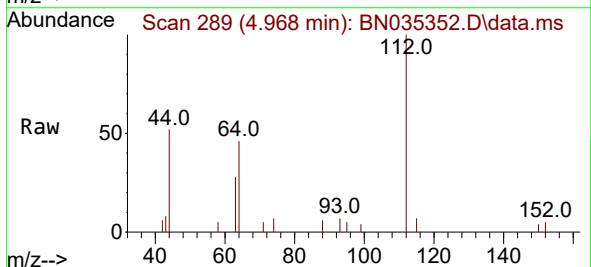
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

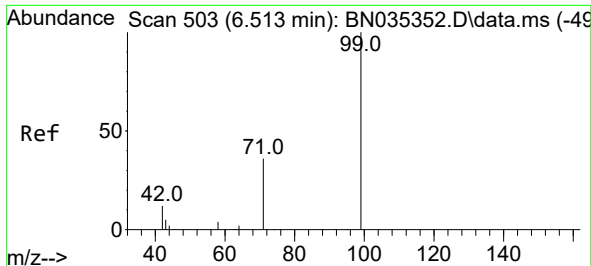
Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4



#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

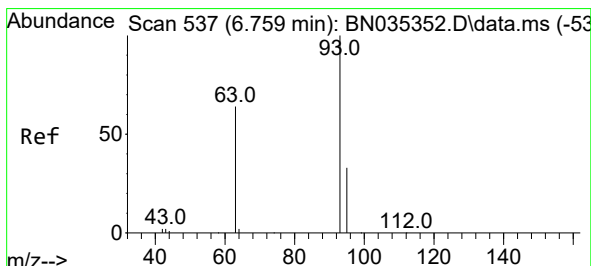
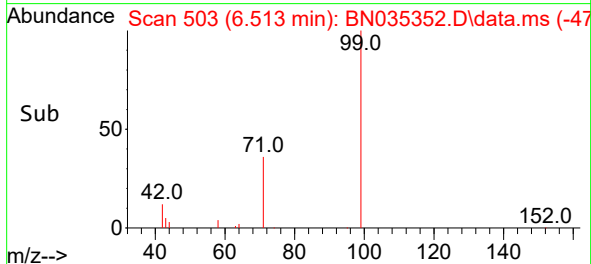
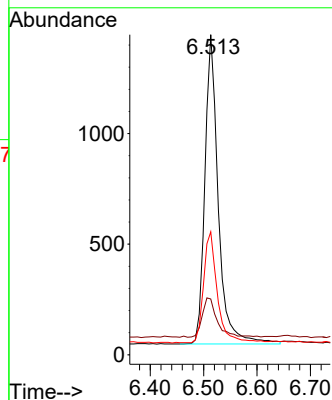
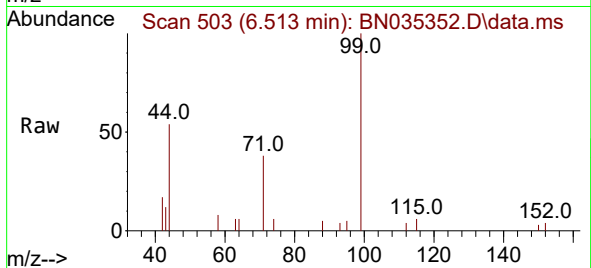




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

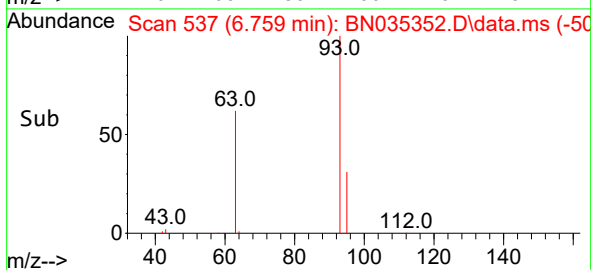
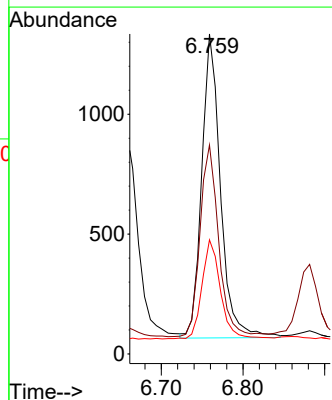
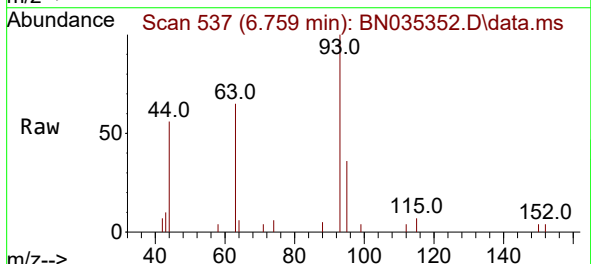
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

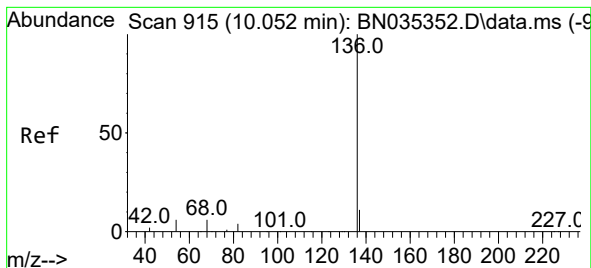
Tgt Ion:	99	Resp:	2444
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



#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

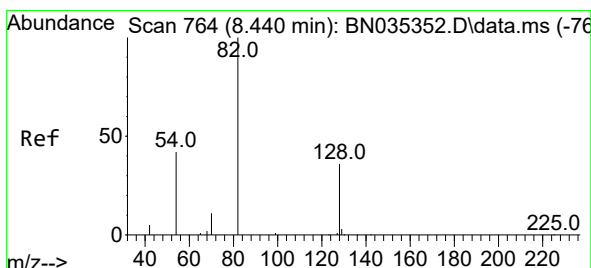
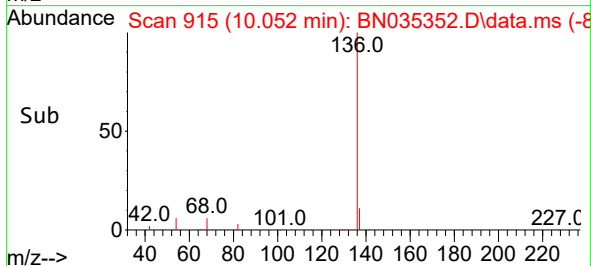
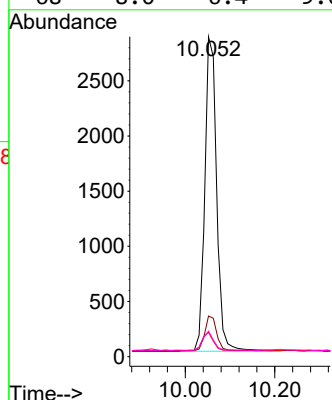
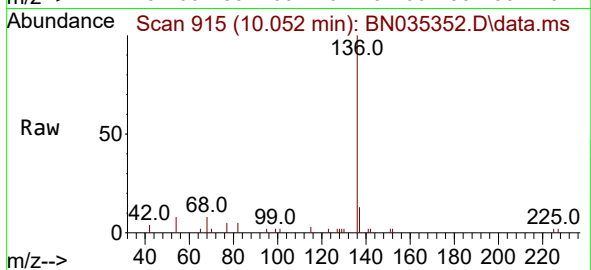
Ion Ratio Lower Upper

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

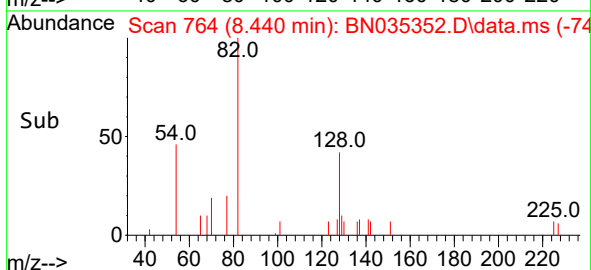
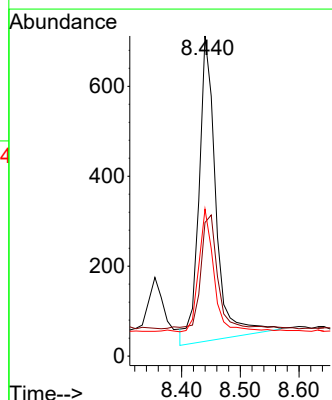
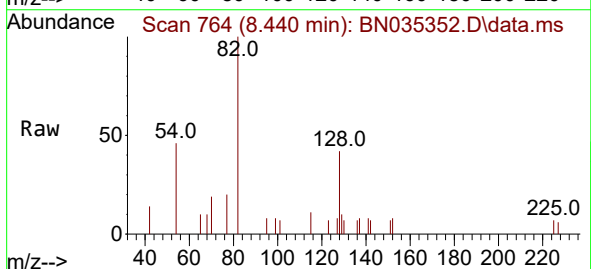
Tgt Ion: 82 Resp: 1371

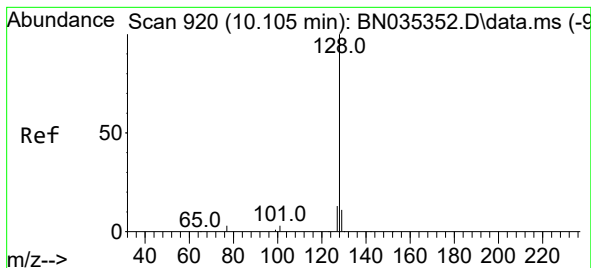
Ion Ratio Lower Upper

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

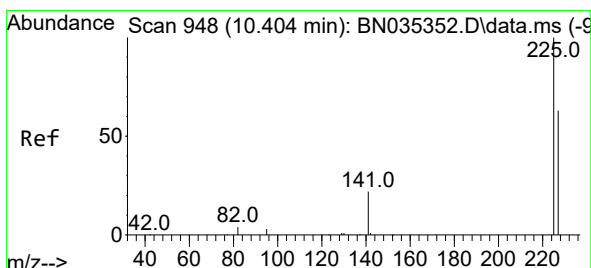
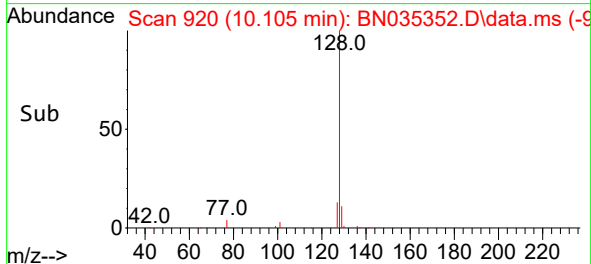
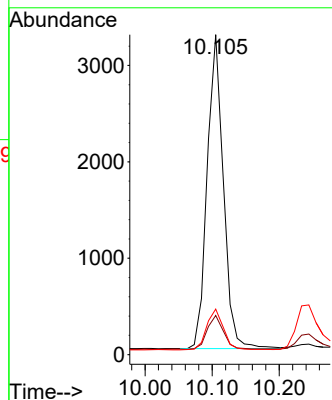
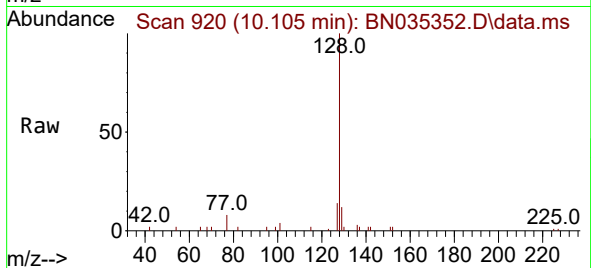
Tgt Ion:128 Resp: 5475

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

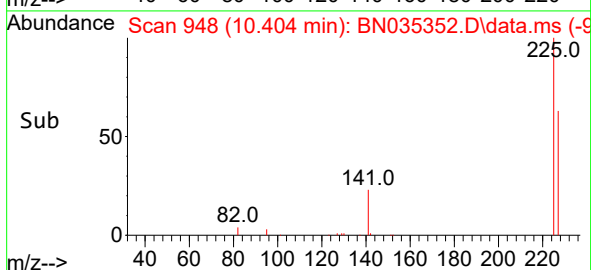
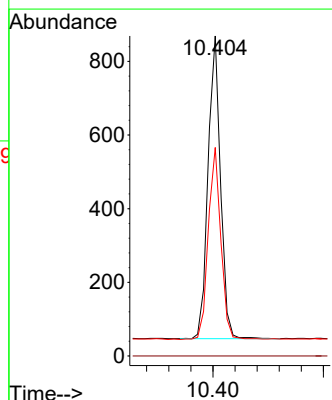
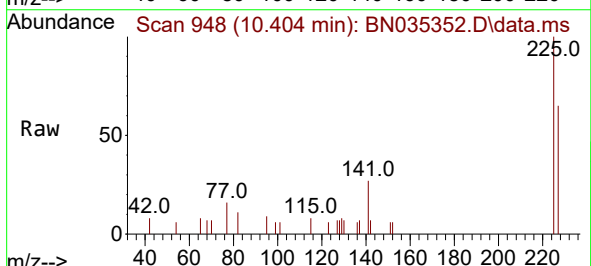
Tgt Ion:225 Resp: 1292

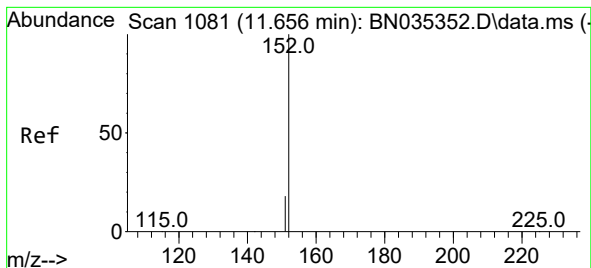
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

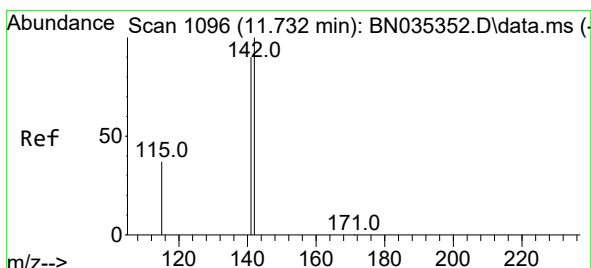
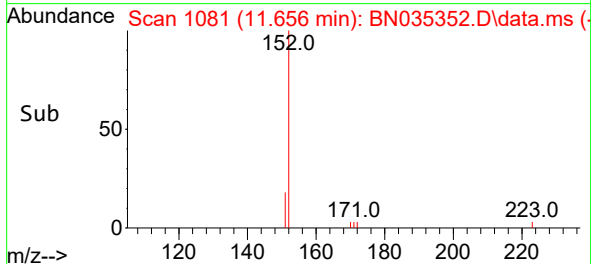
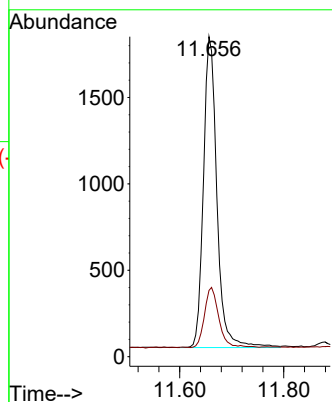
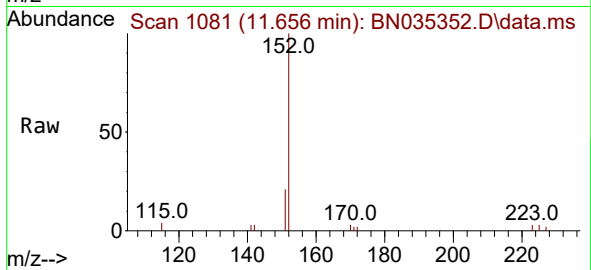




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

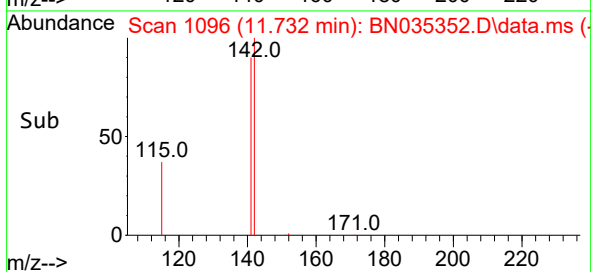
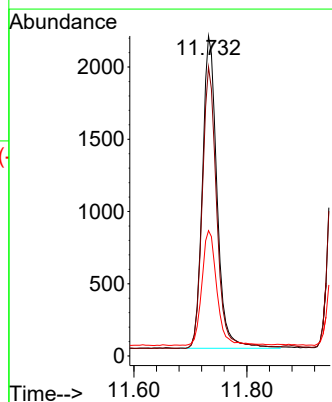
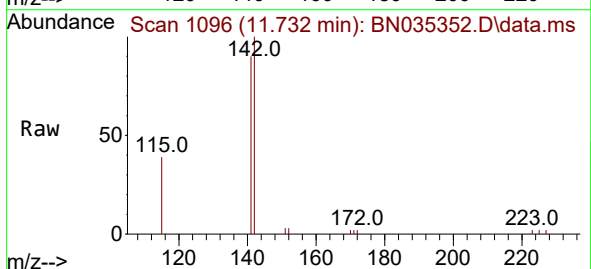
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

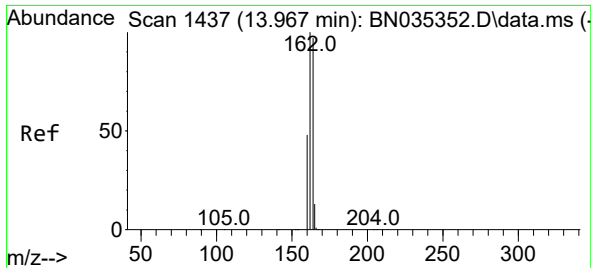
Tgt Ion:152 Resp: 3237
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

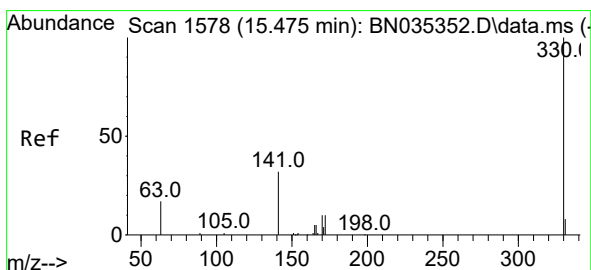
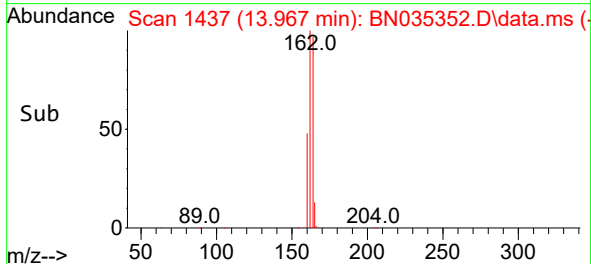
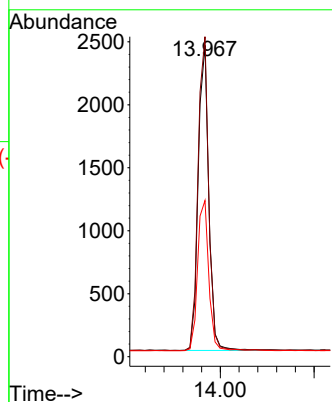
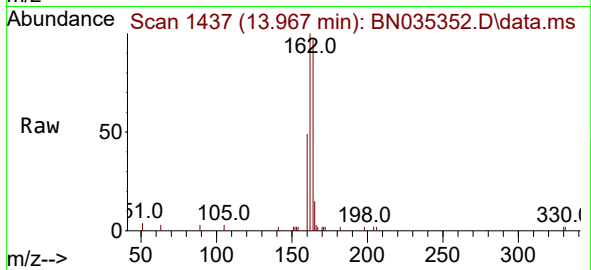




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.967 min Scan# 1437
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

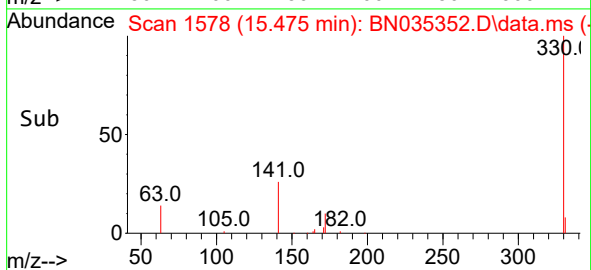
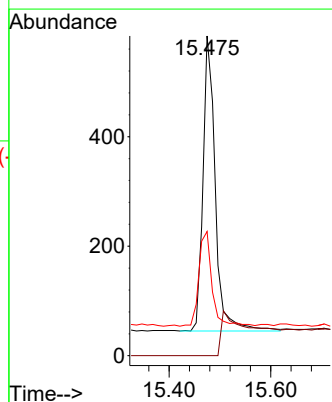
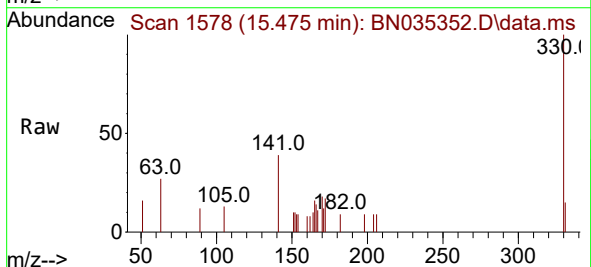
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

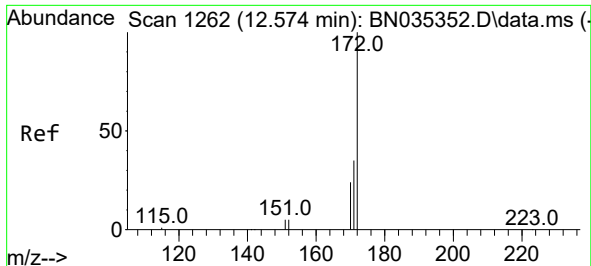
Tgt Ion:164 Resp: 3799
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.2 123.2
 160 50.1 40.1 60.1



#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

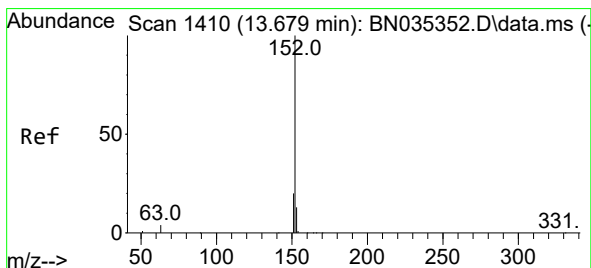
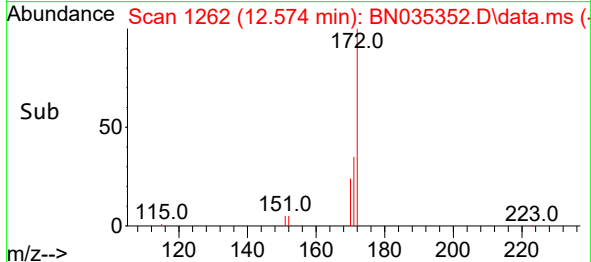
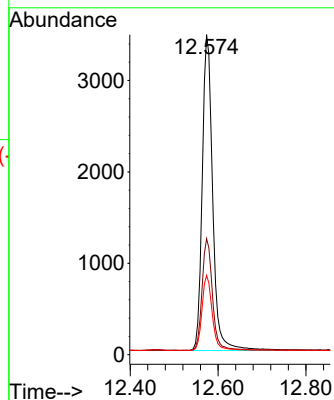
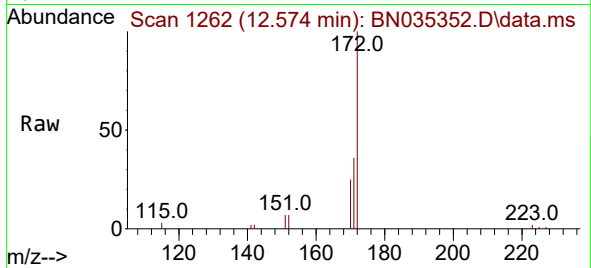




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

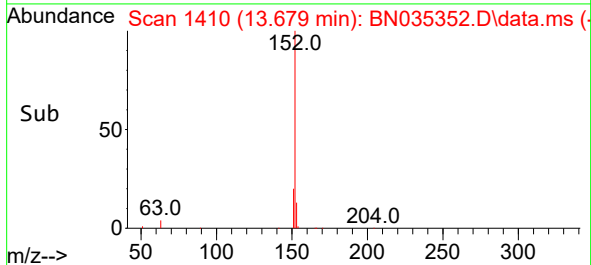
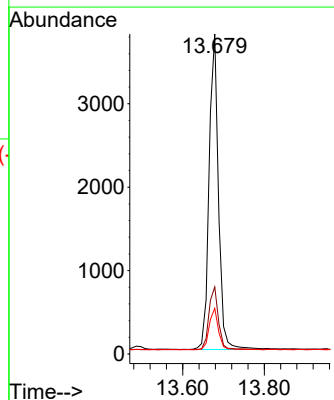
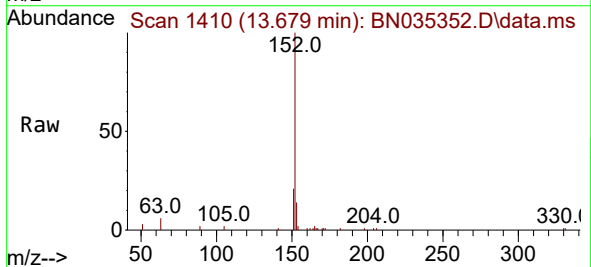
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

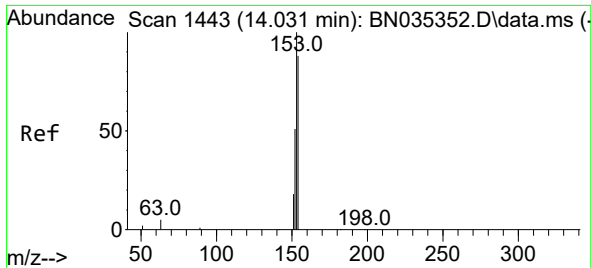
Tgt Ion:172 Resp: 5735
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.8 19.8 29.8



#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

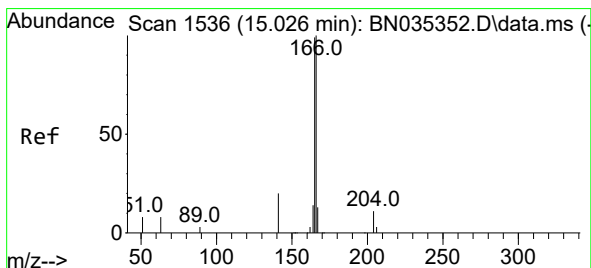
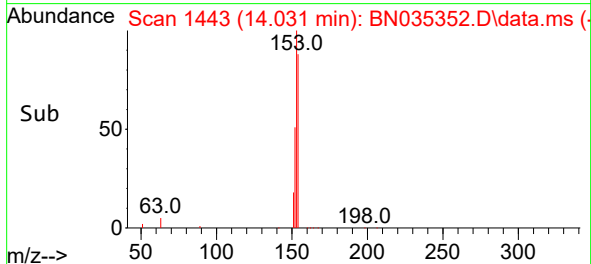
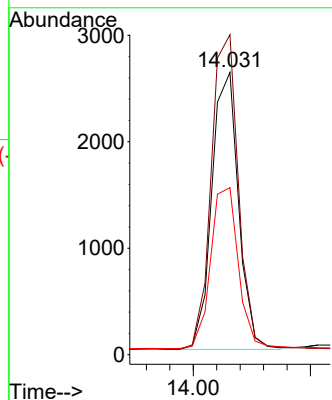
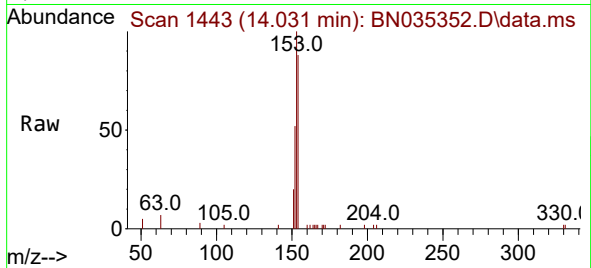




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

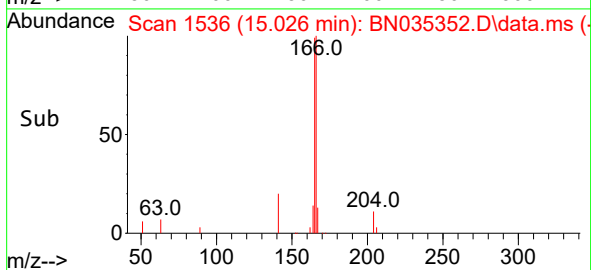
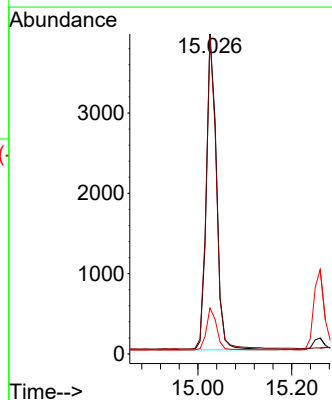
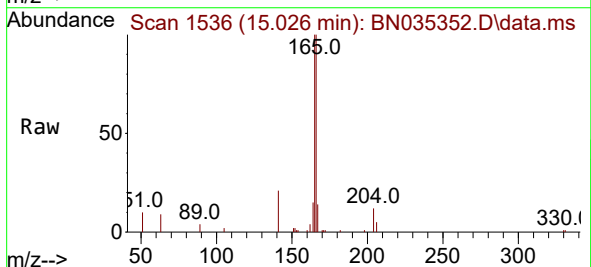
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

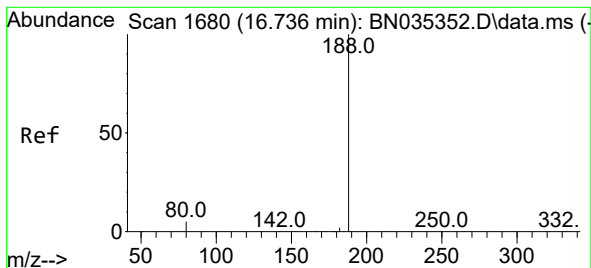
Tgt Ion:154 Resp: 4125
Ion Ratio Lower Upper
154 100
153 115.8 92.6 139.0
152 61.3 49.0 73.6



#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

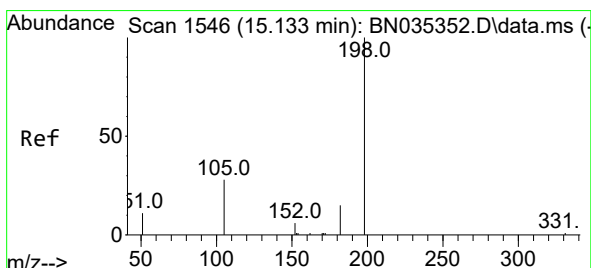
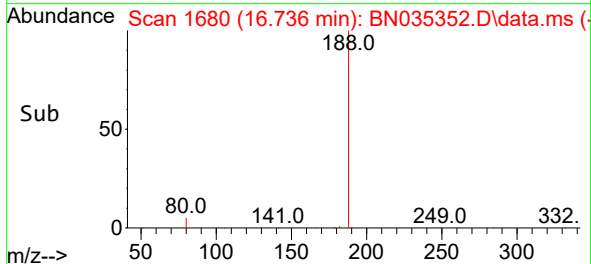
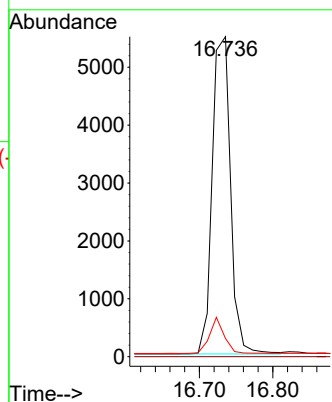
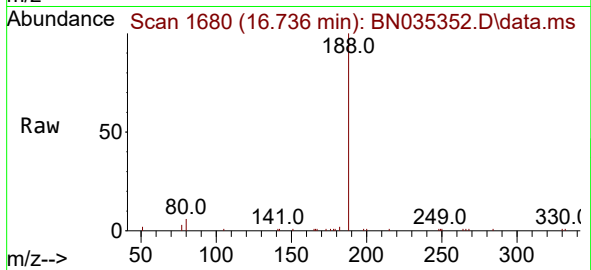
Tgt Ion:188 Resp: 9490

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

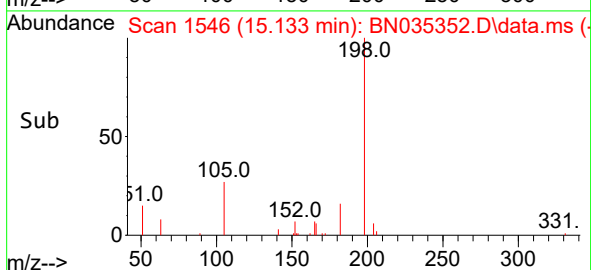
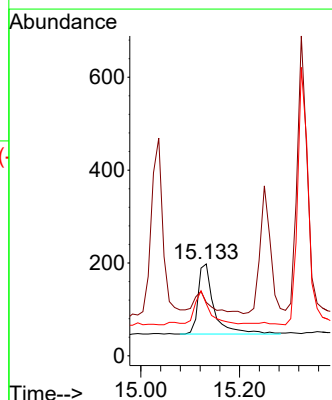
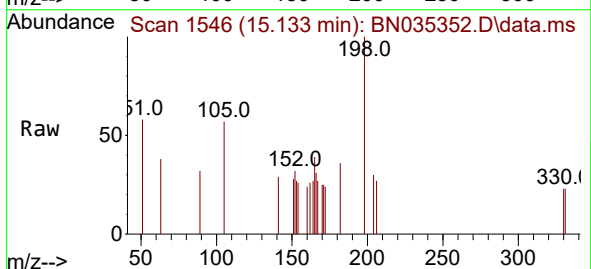
Tgt Ion:198 Resp: 337

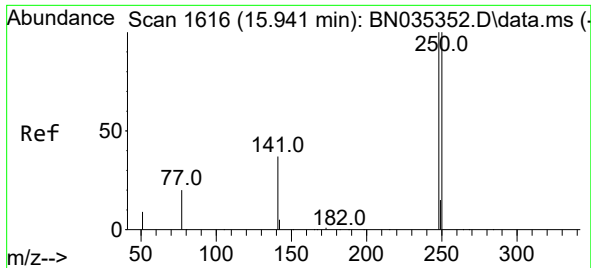
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9

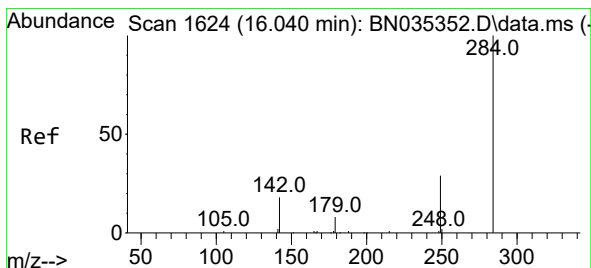
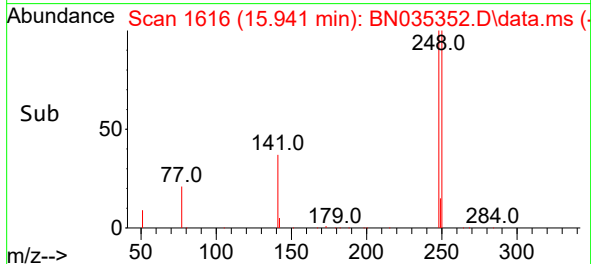
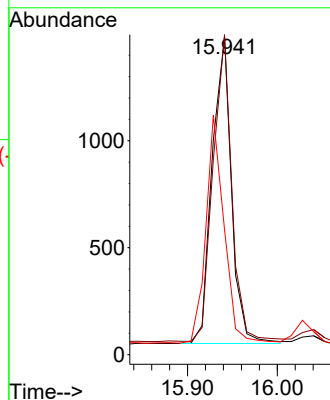
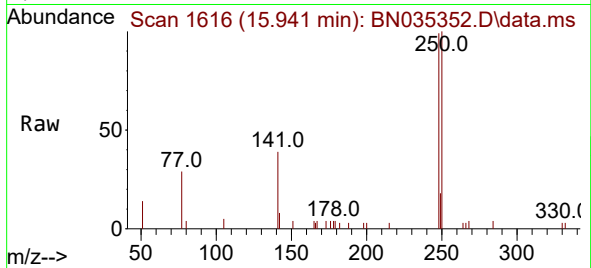




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

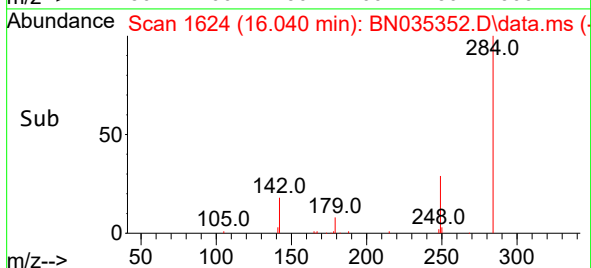
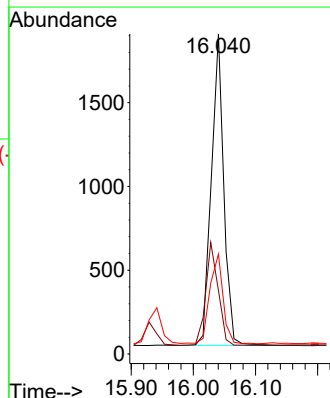
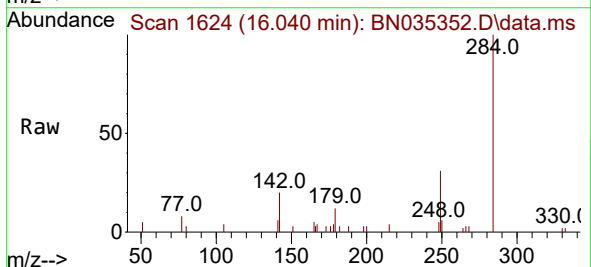
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

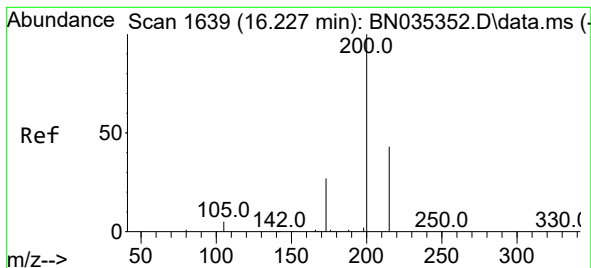
Tgt Ion:248 Resp: 2146
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3



#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

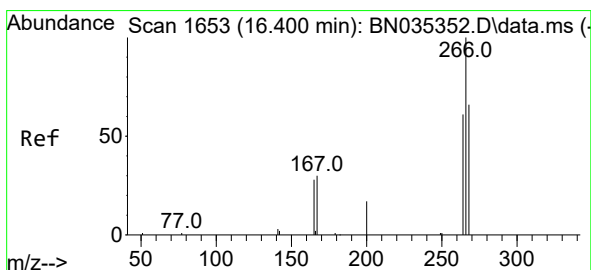
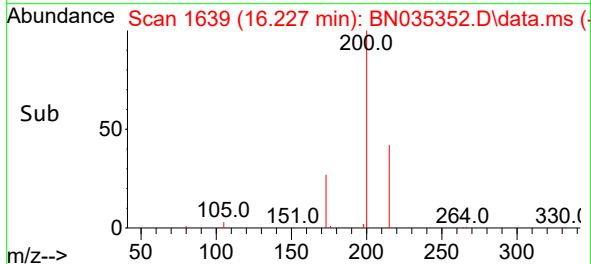
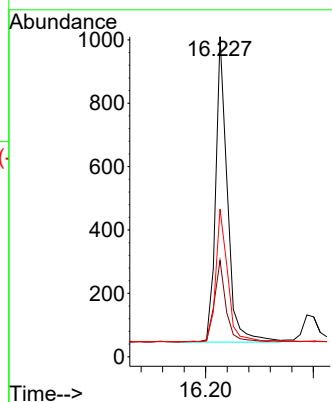
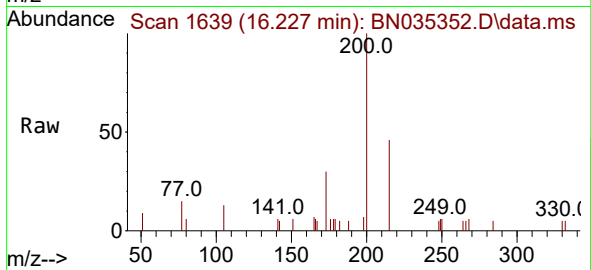
Tgt Ion:200 Resp: 1461

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

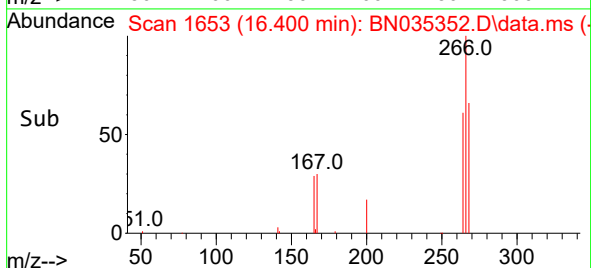
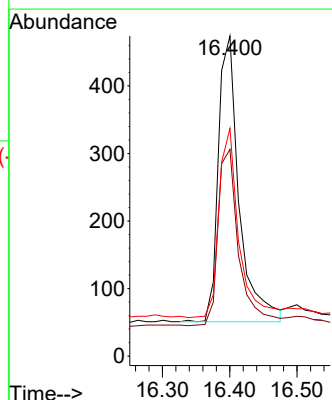
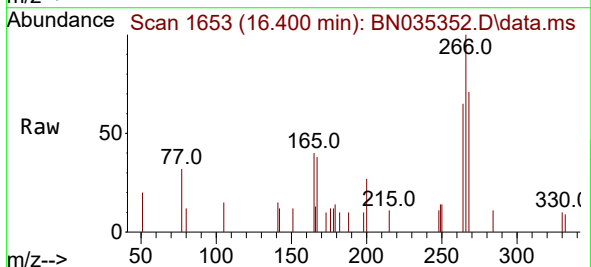
Tgt Ion:266 Resp: 906

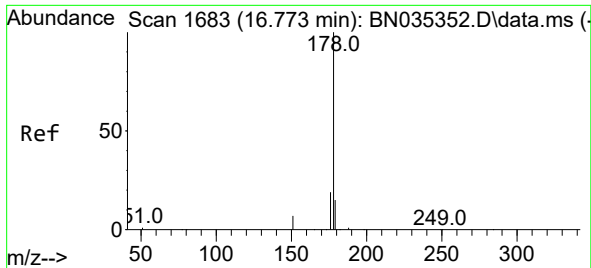
Ion Ratio Lower Upper

266 100

264 62.4 42.3 63.5

268 63.8 43.3 64.9

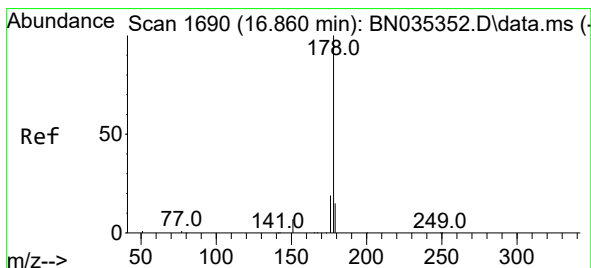
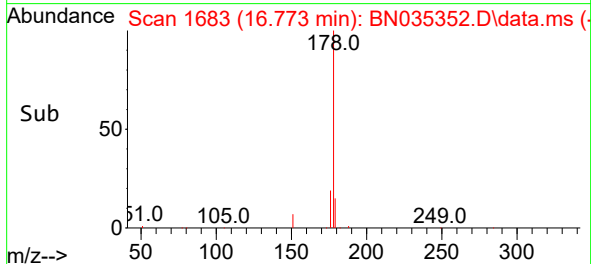
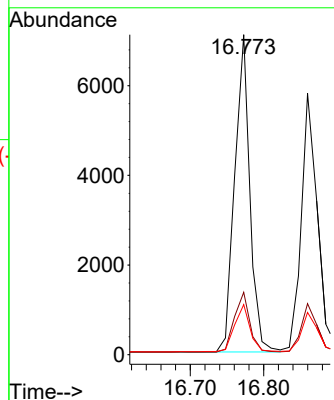
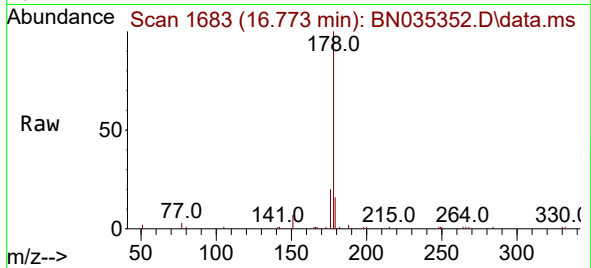




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

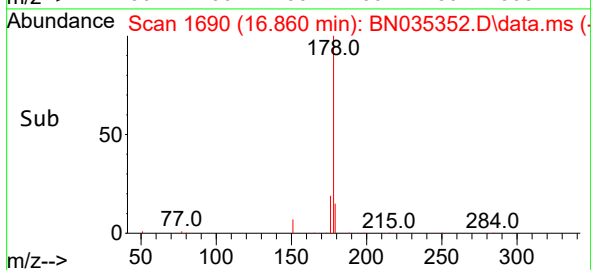
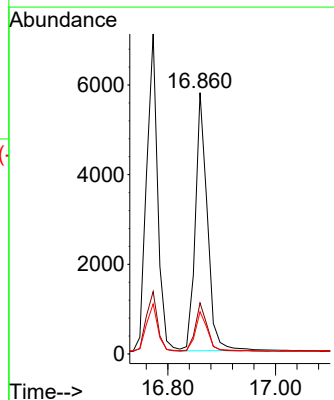
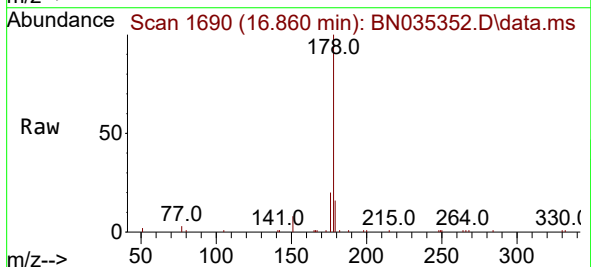
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

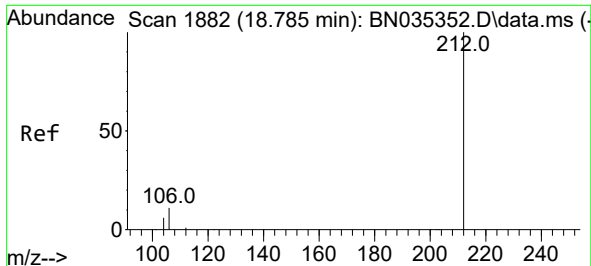
Tgt Ion:178 Resp: 10127
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5



#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

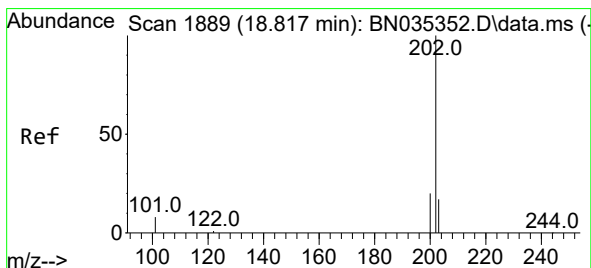
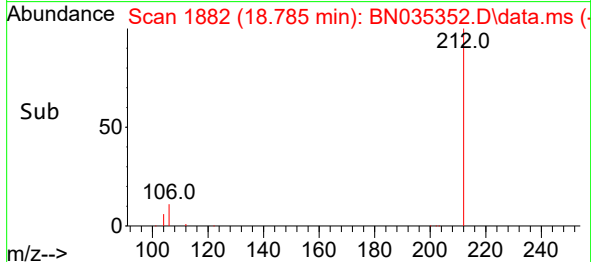
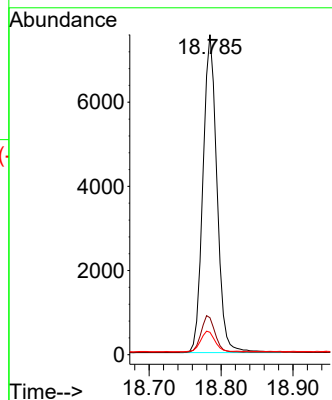
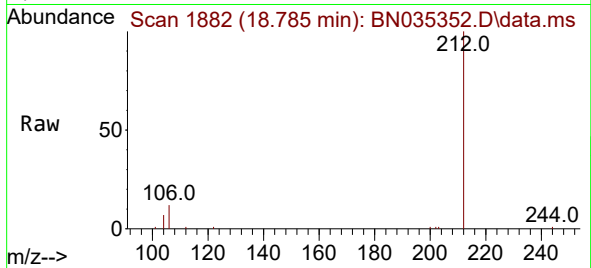




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

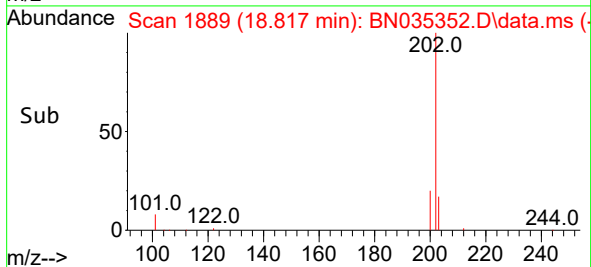
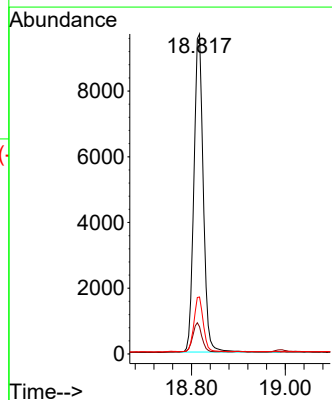
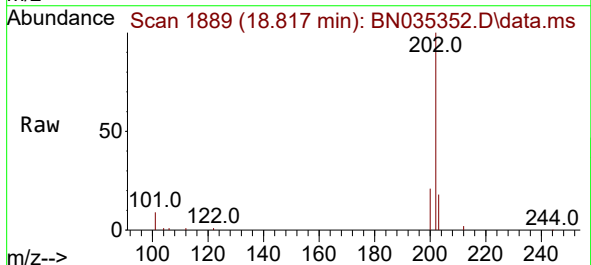
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

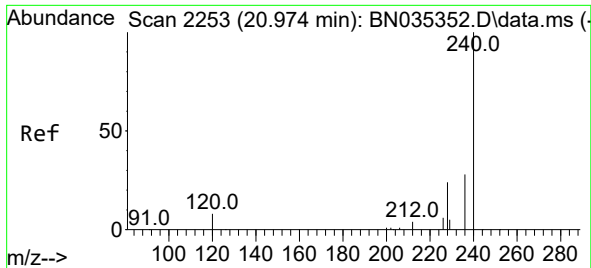
Tgt Ion:212 Resp: 10223
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#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

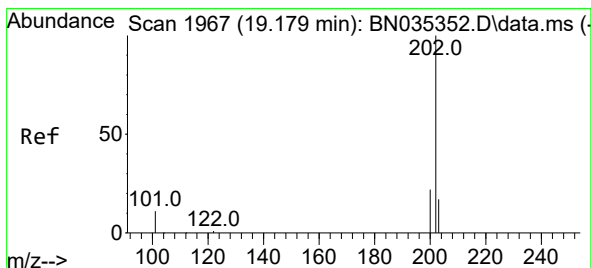
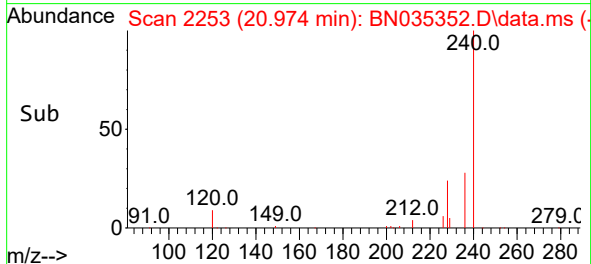
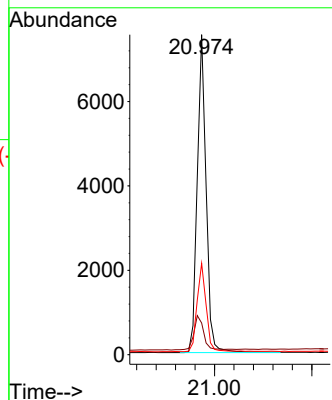
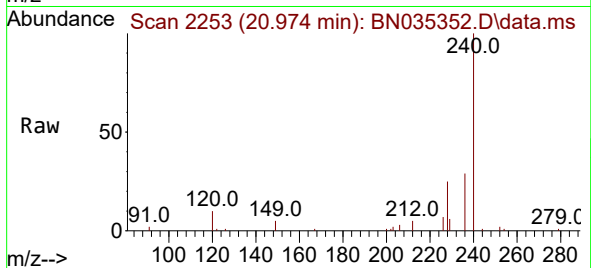




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

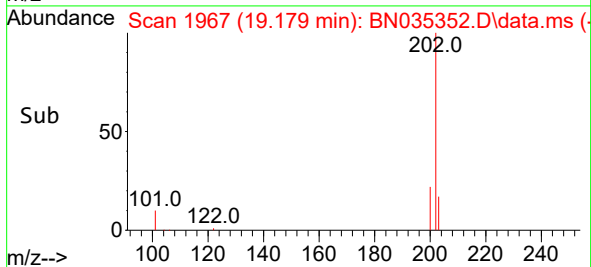
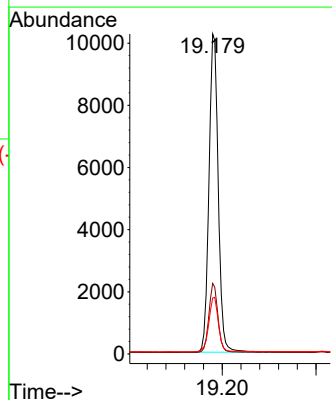
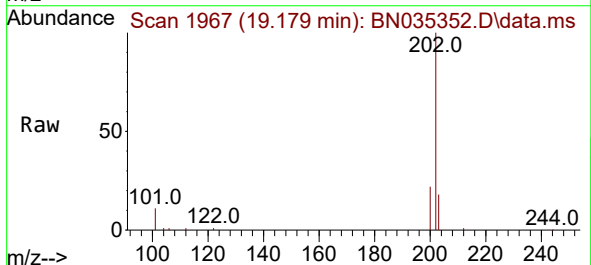
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

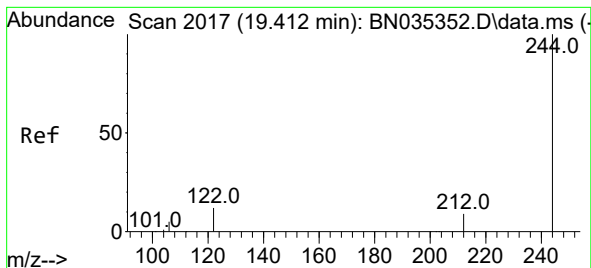
Tgt Ion:240 Resp: 9527
Ion Ratio Lower Upper
240 100
120 9.9 7.9 11.9
236 28.6 22.9 34.3



#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

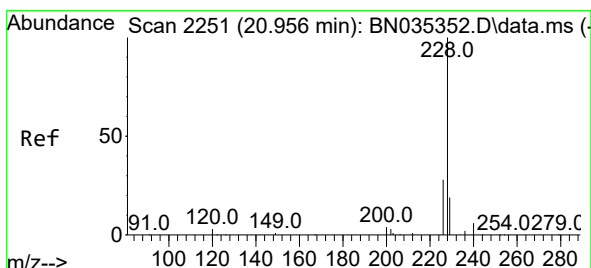
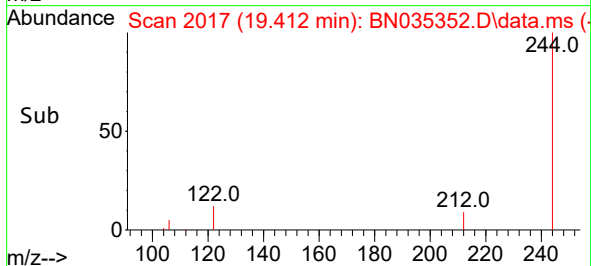
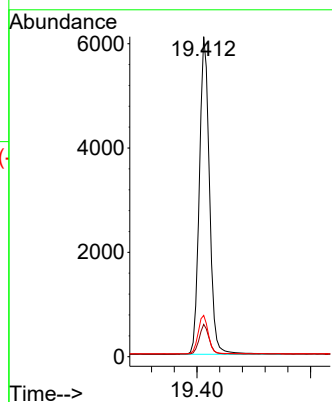
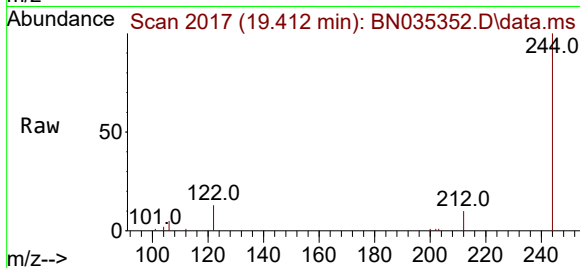
Tgt Ion:244 Resp: 7533

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

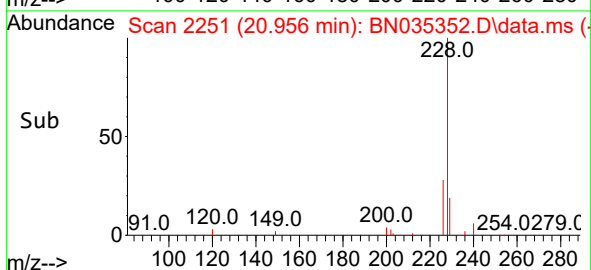
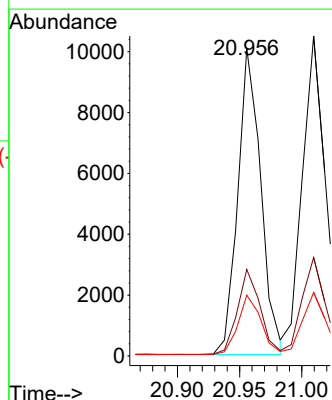
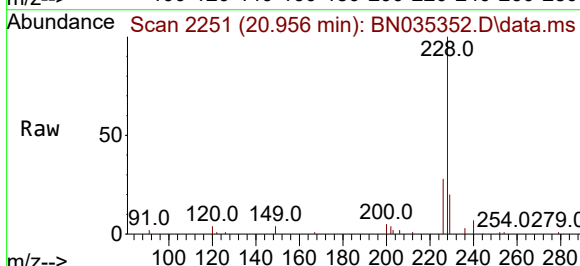
Tgt Ion:228 Resp: 12908

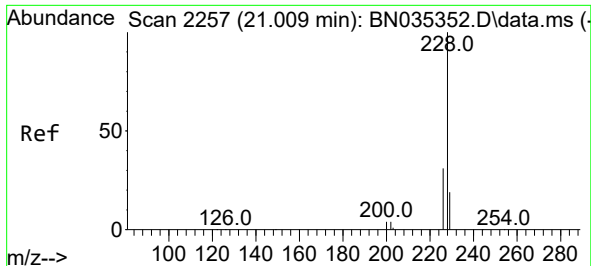
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 19.8 15.8 23.8

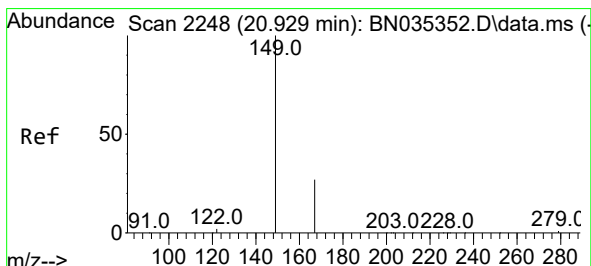
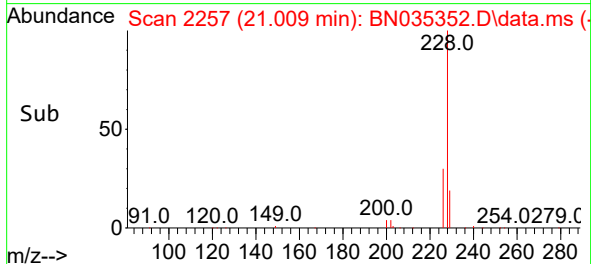
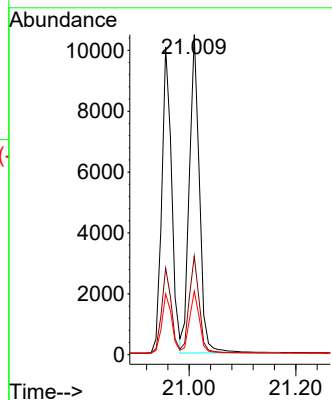
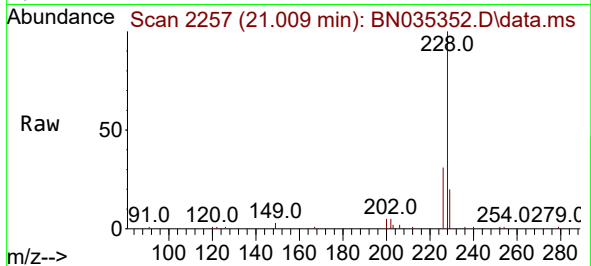




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

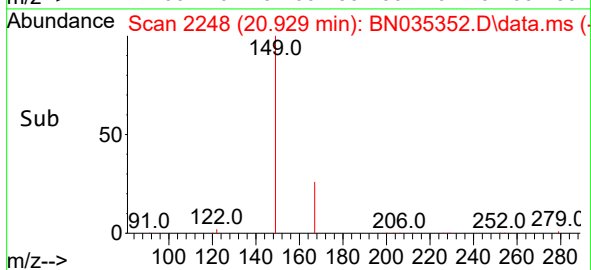
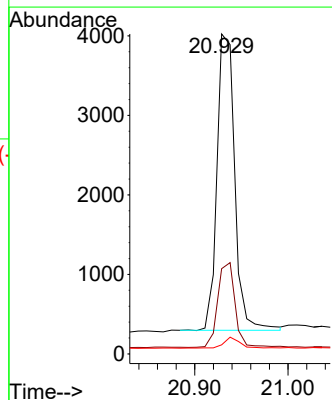
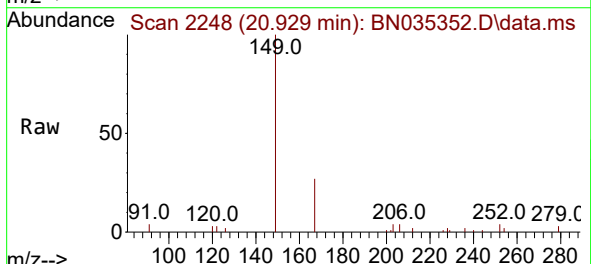
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

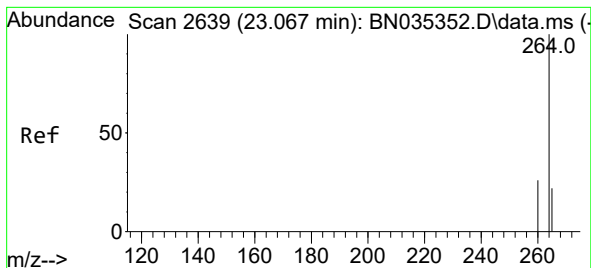
Tgt Ion:228 Resp: 13729
Ion Ratio Lower Upper
228 100
226 30.8 24.6 37.0
229 19.9 15.9 23.9



#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

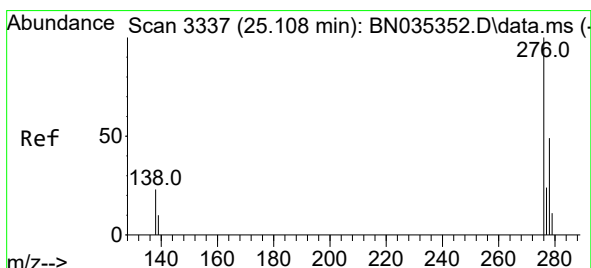
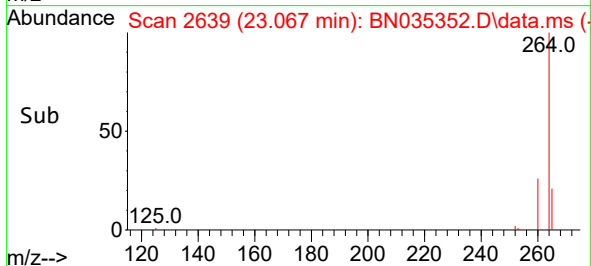
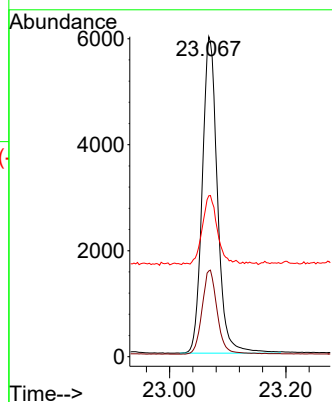
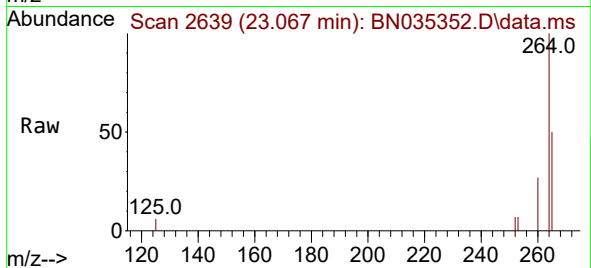
Tgt Ion:264 Resp: 10842

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

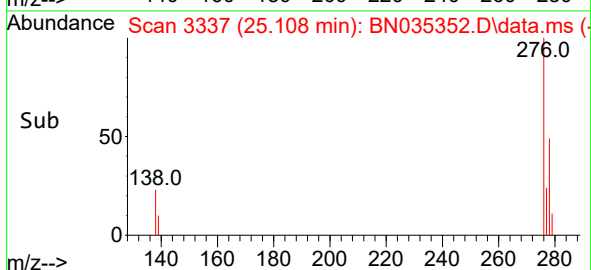
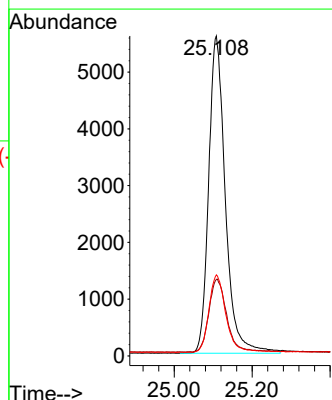
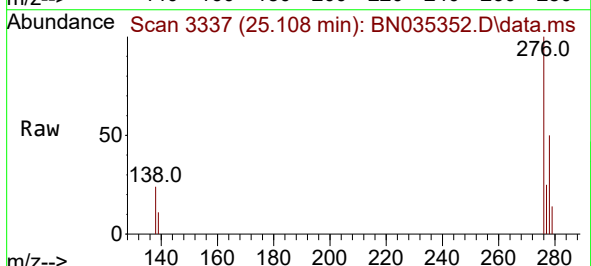
Tgt Ion:276 Resp: 16615

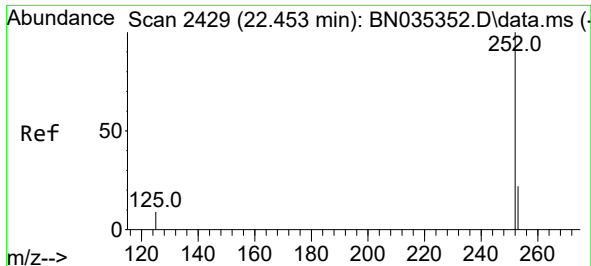
Ion Ratio Lower Upper

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

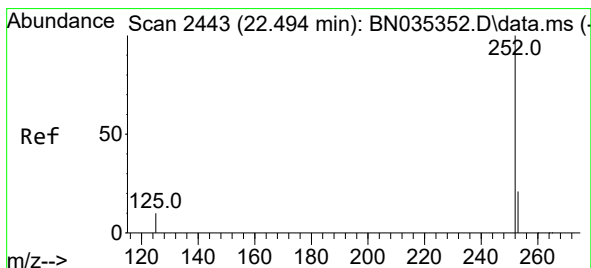
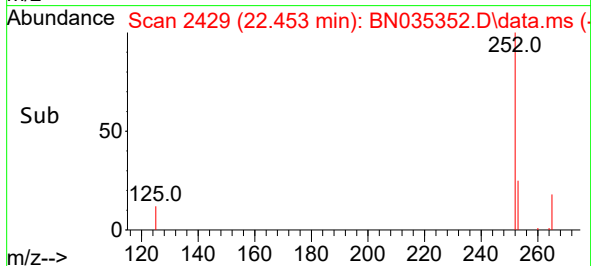
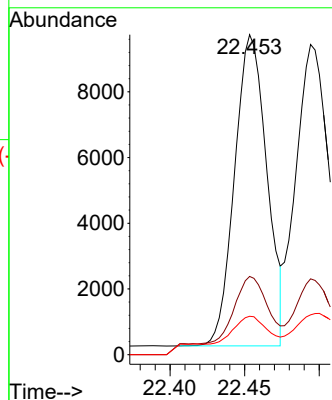
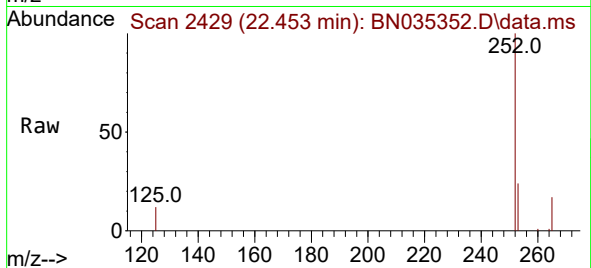
Tgt Ion:252 Resp: 14235

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

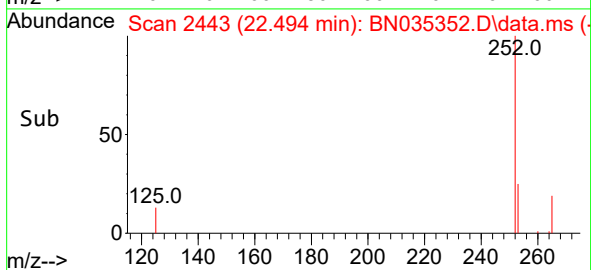
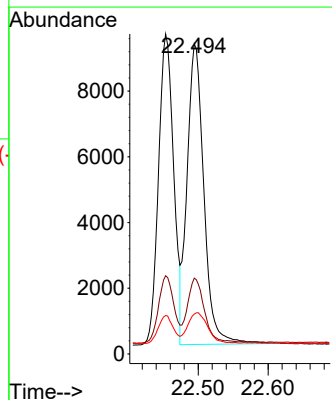
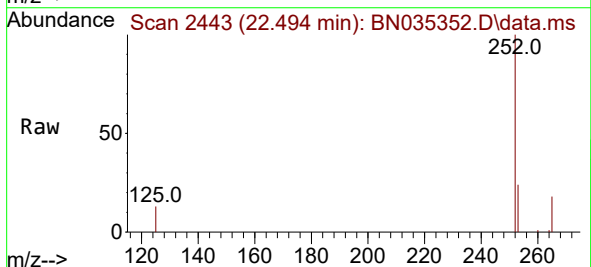
Tgt Ion:252 Resp: 15199

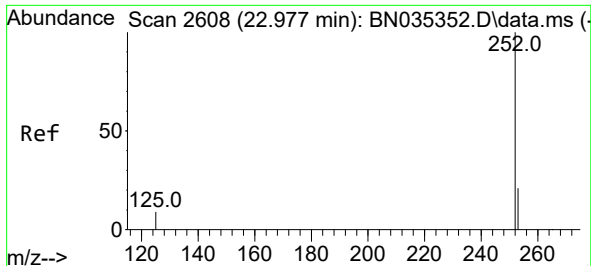
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

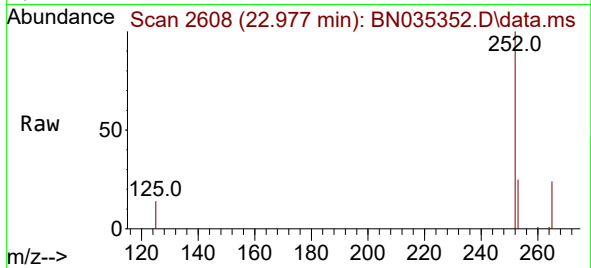
125 12.8 10.2 15.4



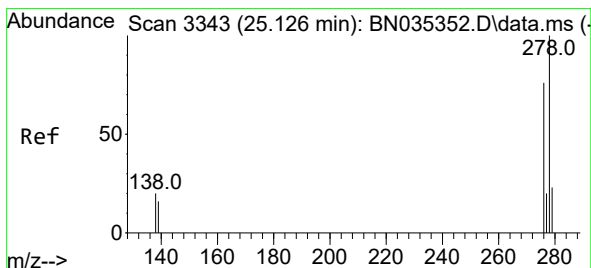
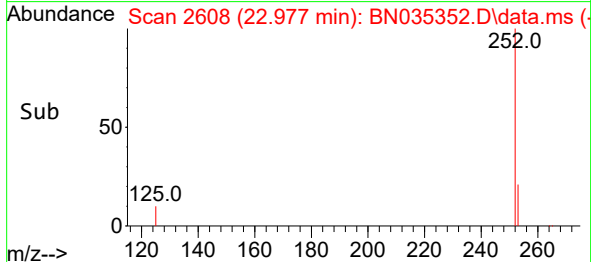
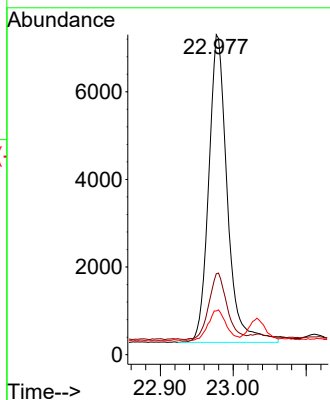


#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

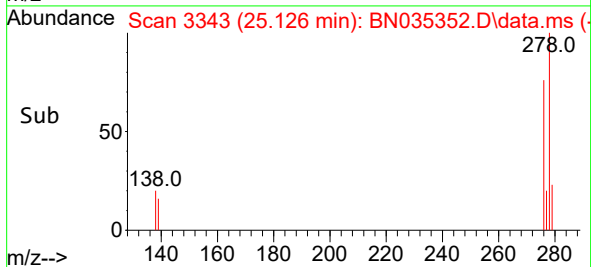
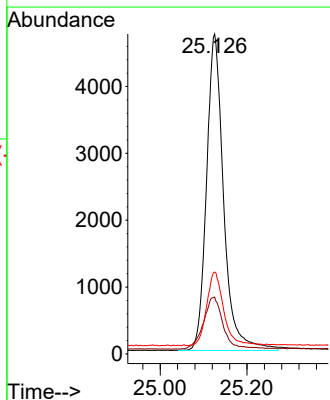
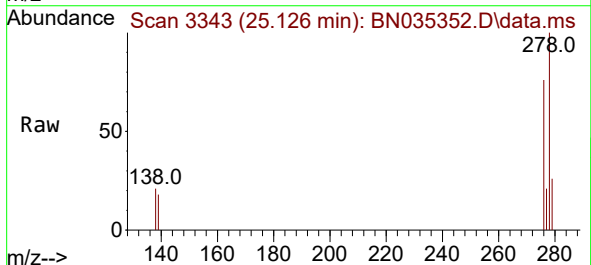


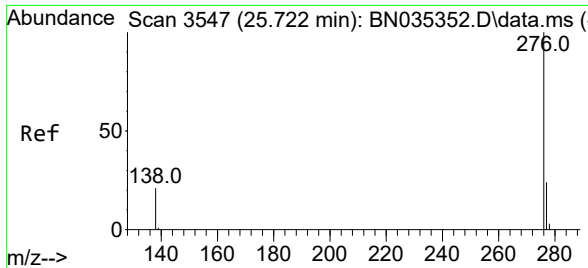
Tgt Ion:252 Resp: 12425
Ion Ratio Lower Upper
252 100
253 25.3 20.2 30.4
125 13.6 10.9 16.3



#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

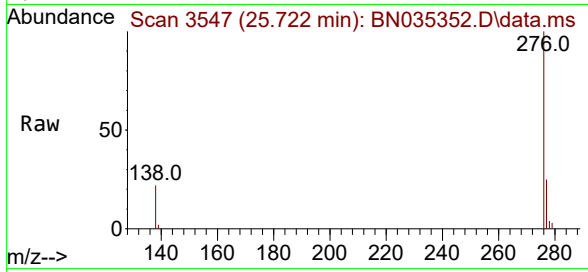
Tgt Ion:278 Resp: 12948
Ion Ratio Lower Upper
278 100
139 17.8 14.2 21.4
279 25.6 20.5 30.7



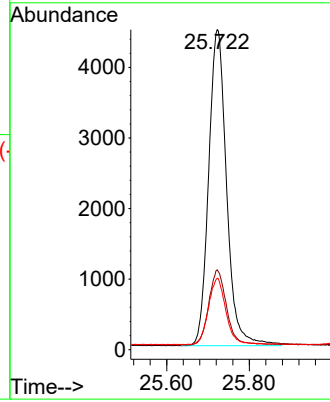
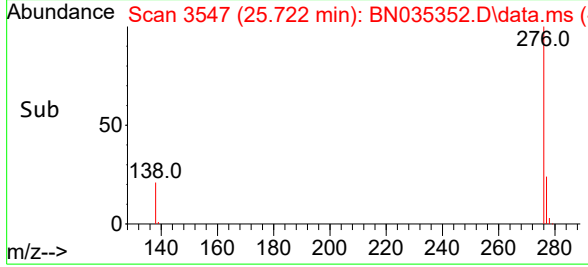


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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)

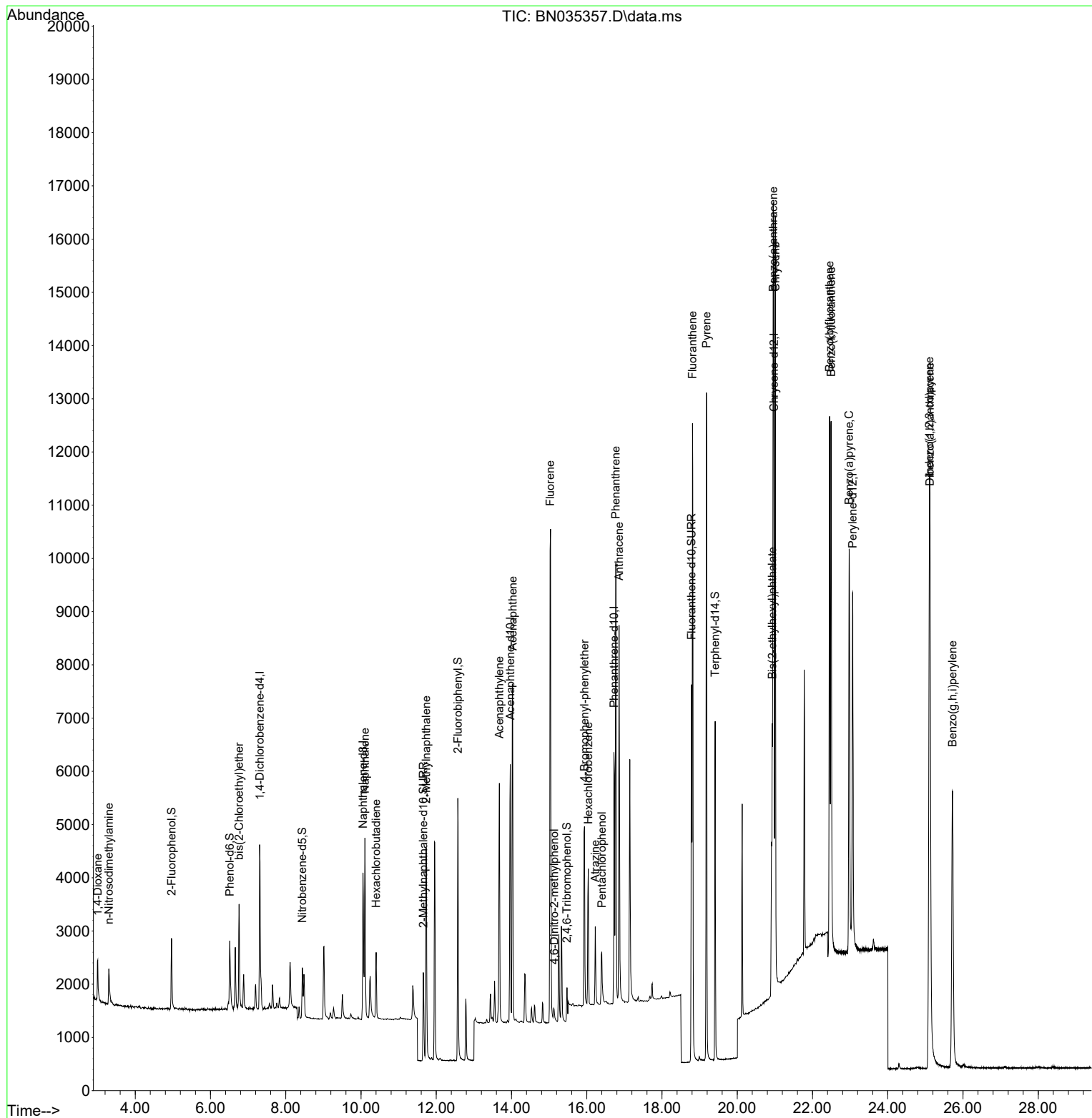
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	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						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

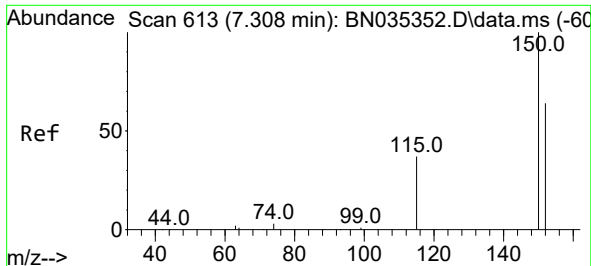
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

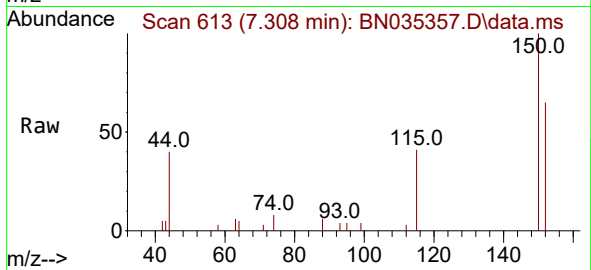
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



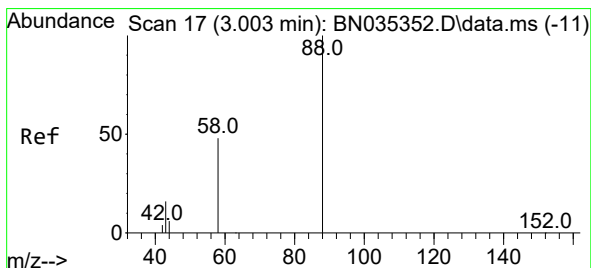
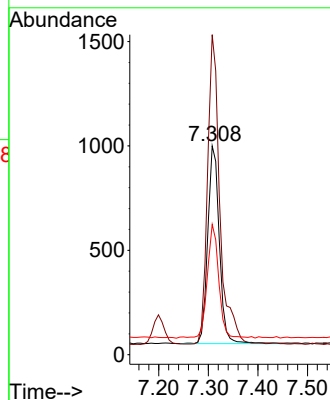
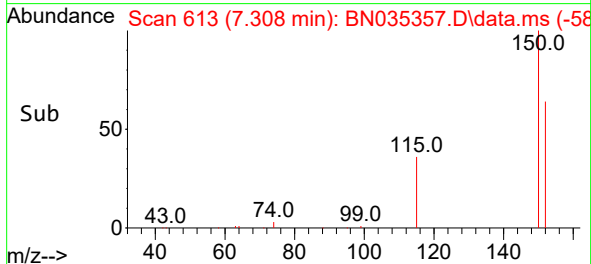


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

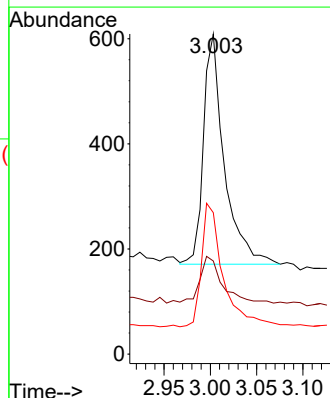
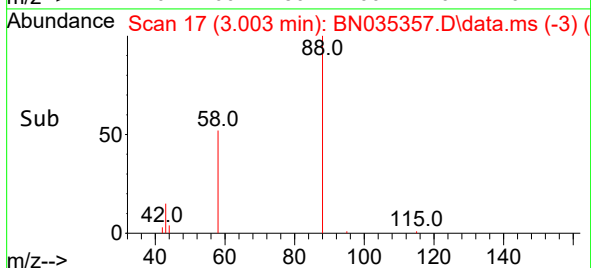
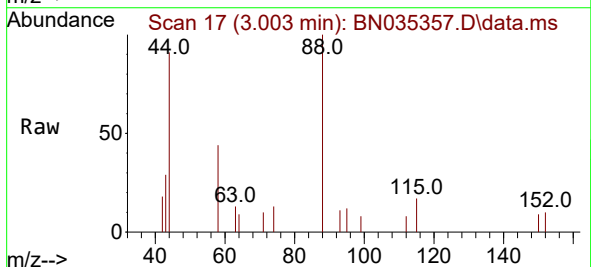


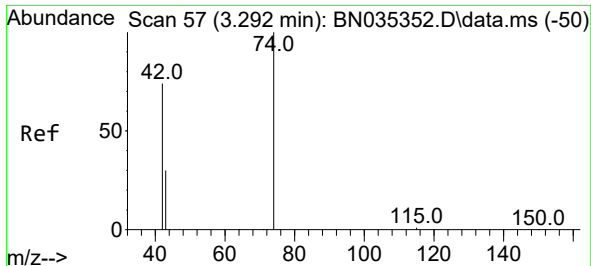
Tgt Ion:152 Resp: 1540
 Ion Ratio Lower Upper
 152 100
 150 153.3 124.0 186.0
 115 62.4 49.6 74.4



#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

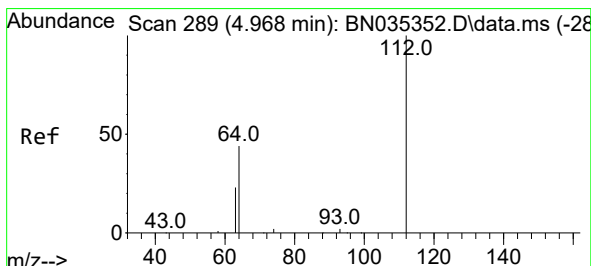
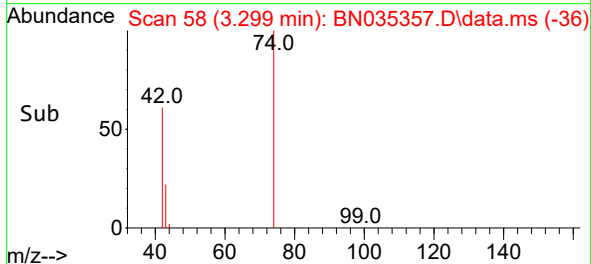
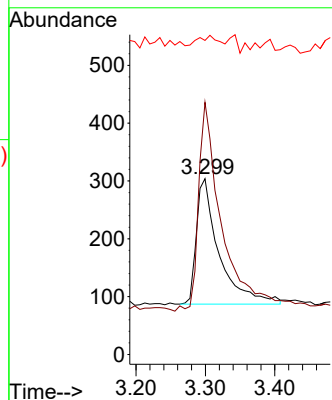
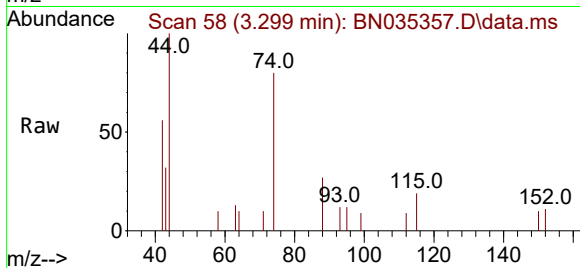




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

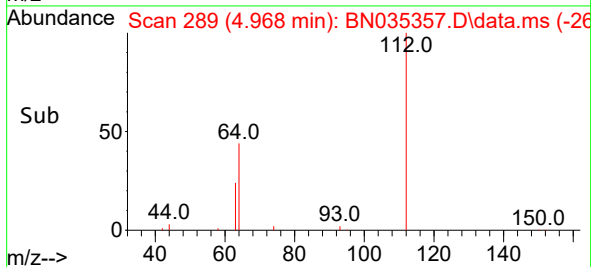
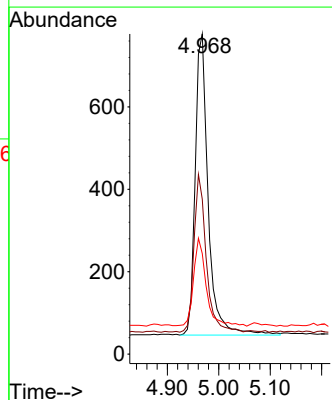
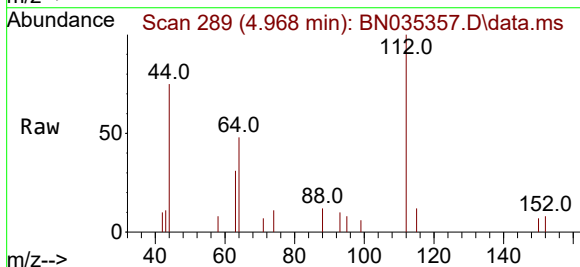
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

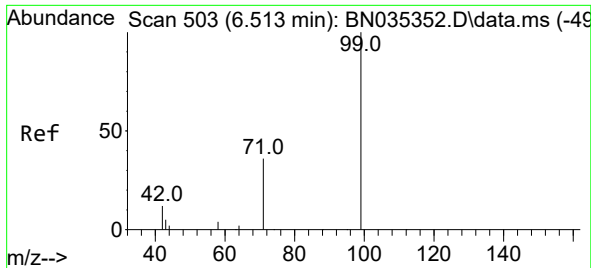
Tgt Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4#



#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

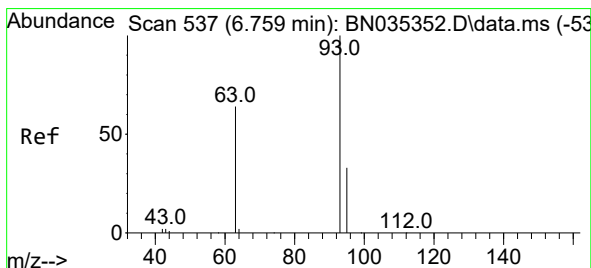
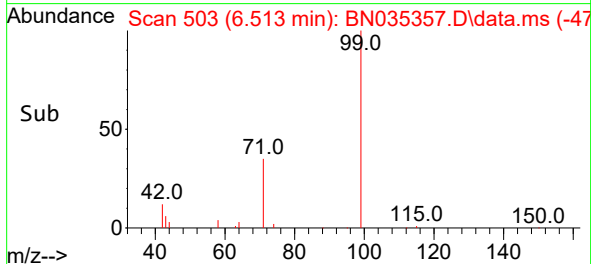
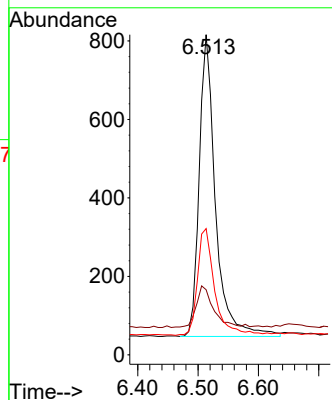
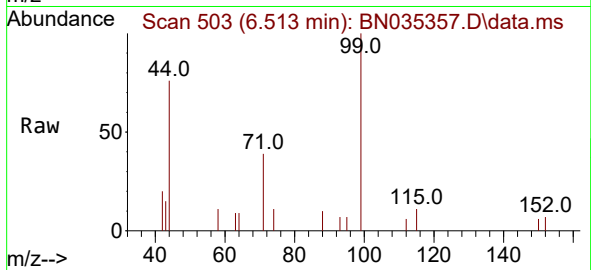




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

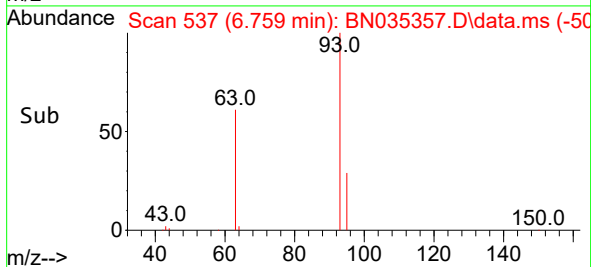
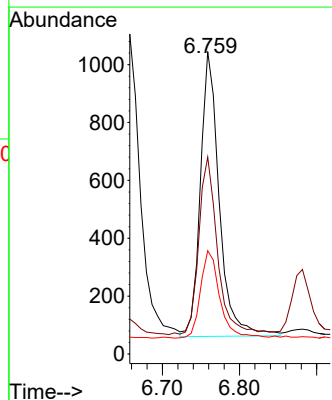
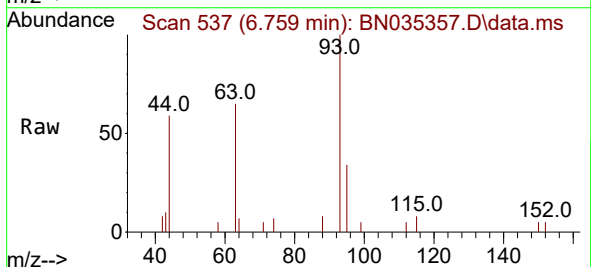
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

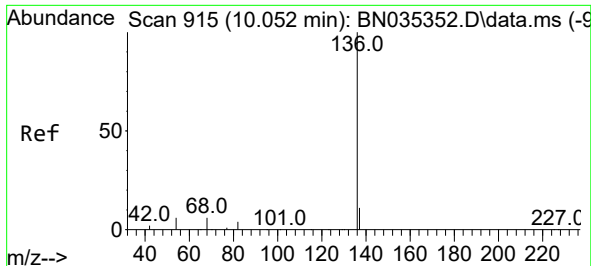
Tgt Ion: 99 Resp: 1437
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 37.2 29.3 43.9



#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

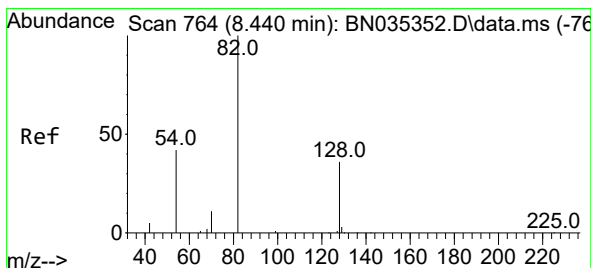
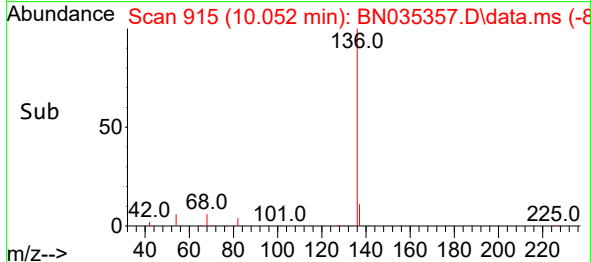
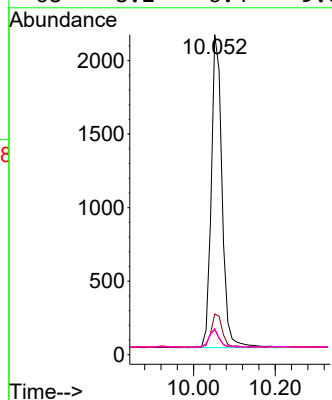
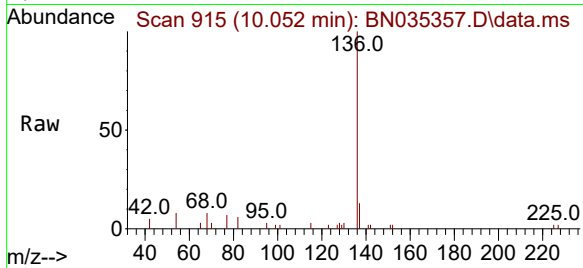




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

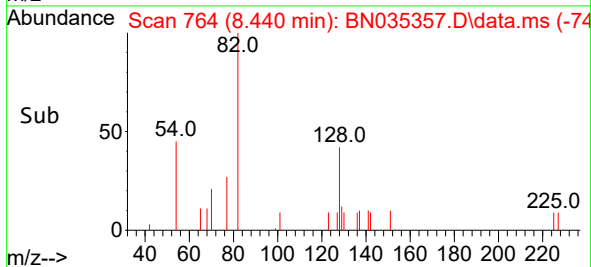
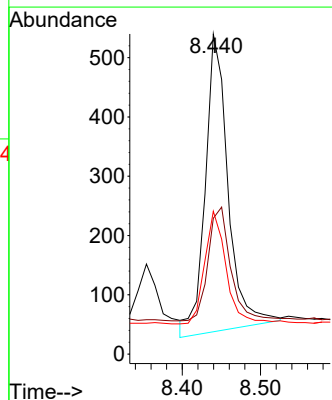
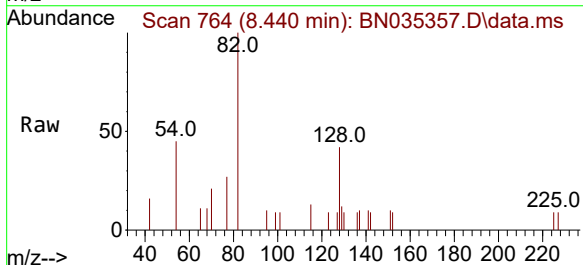
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

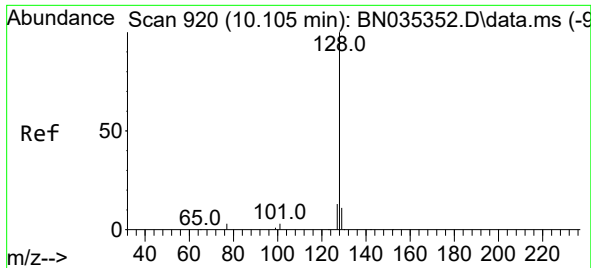
Tgt Ion:	136	Resp:	3904
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



#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

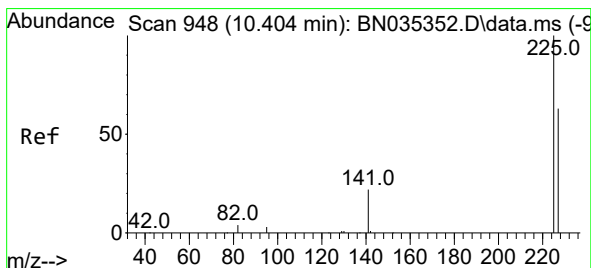
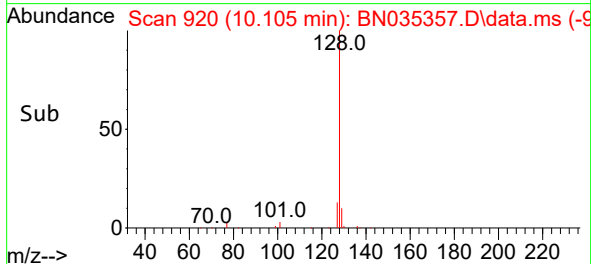
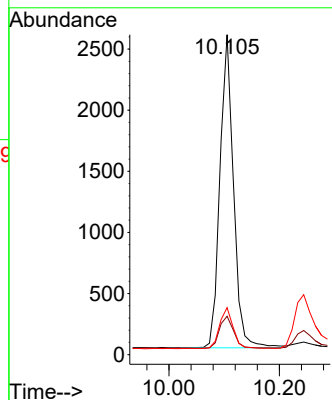
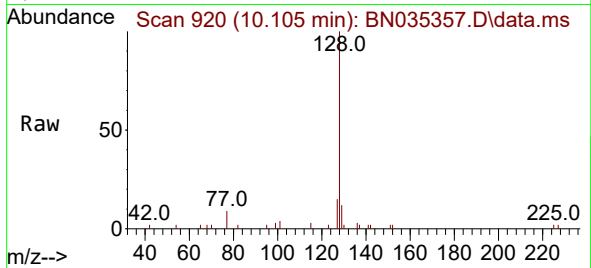




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

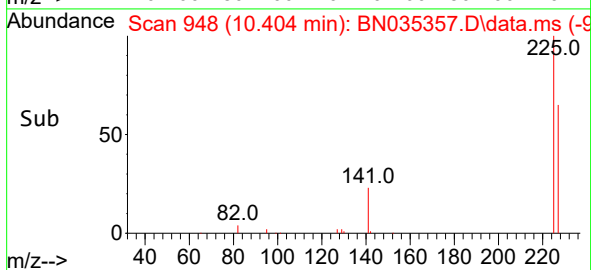
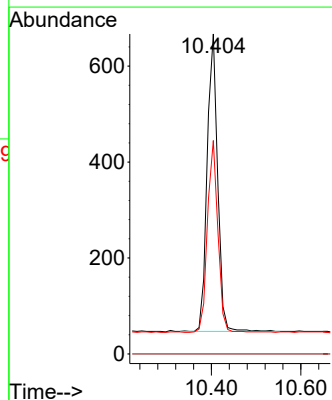
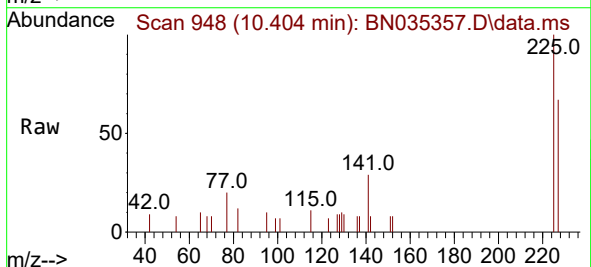
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

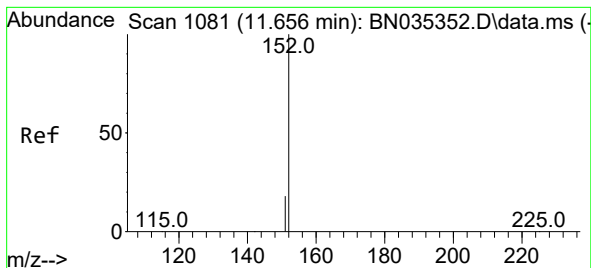
Tgt Ion:128 Resp: 4364
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.7 11.4 17.2



#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

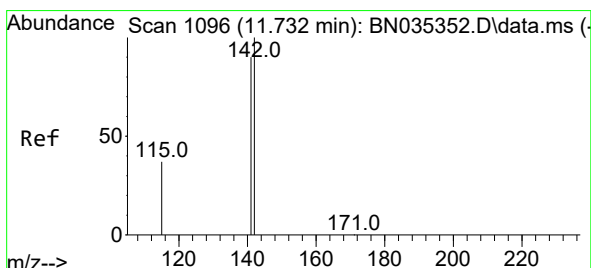
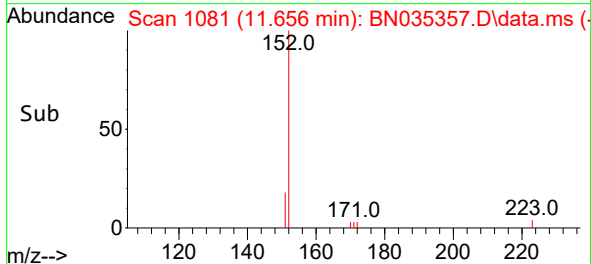
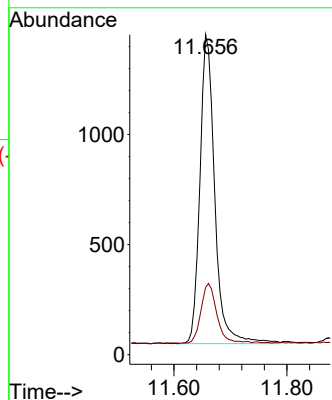
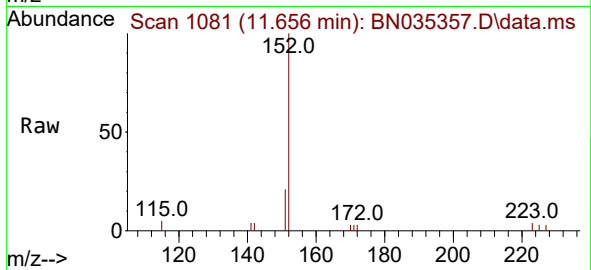




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

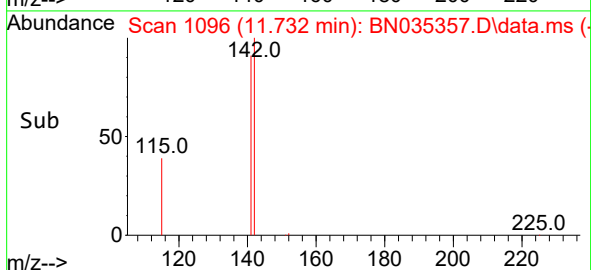
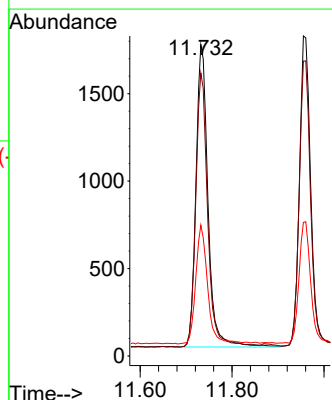
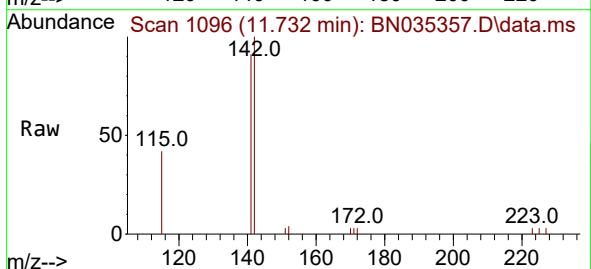
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

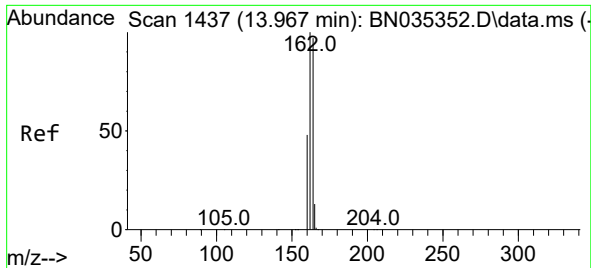
Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

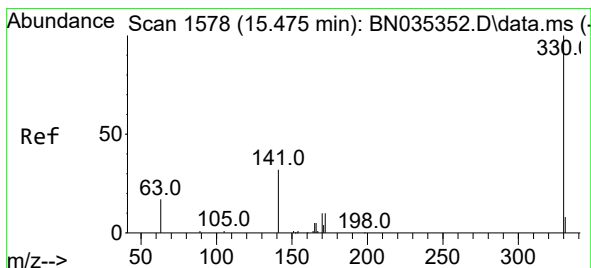
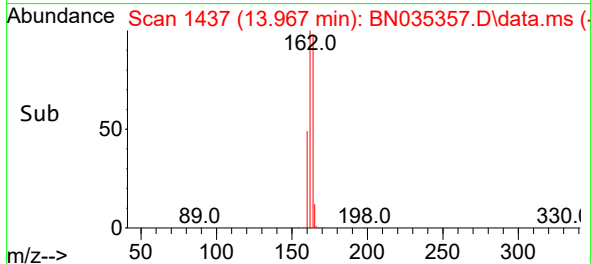
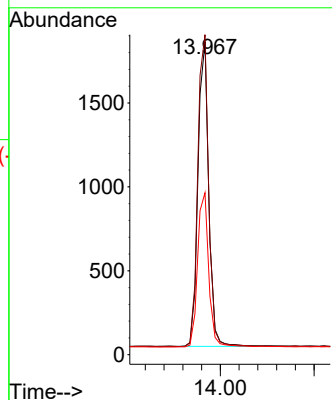
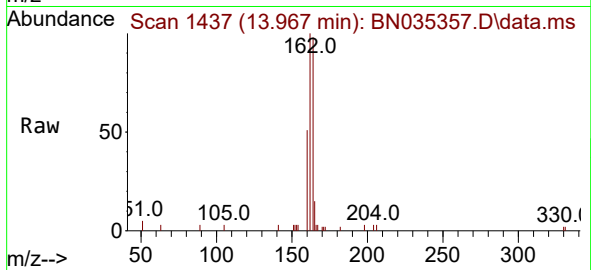




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

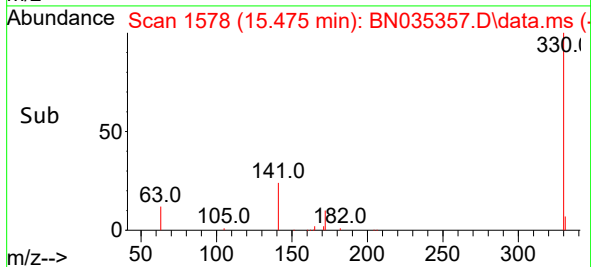
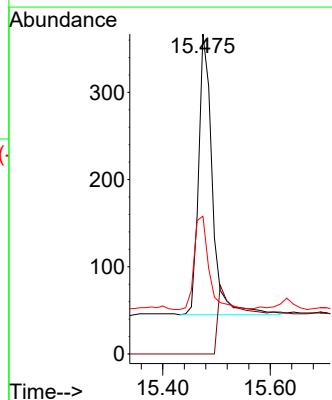
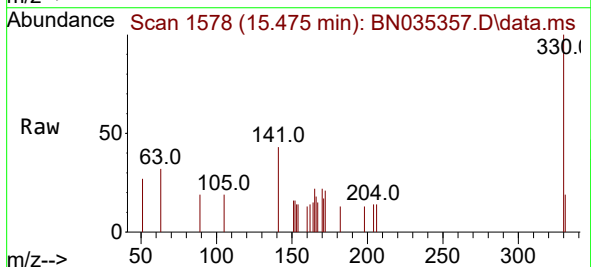
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

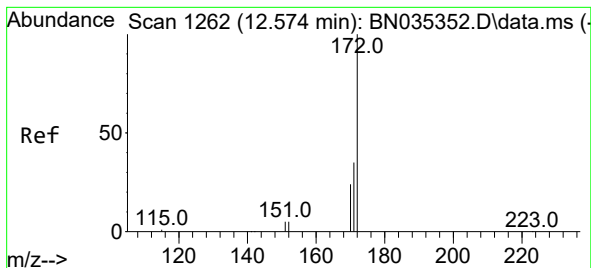
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1



#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

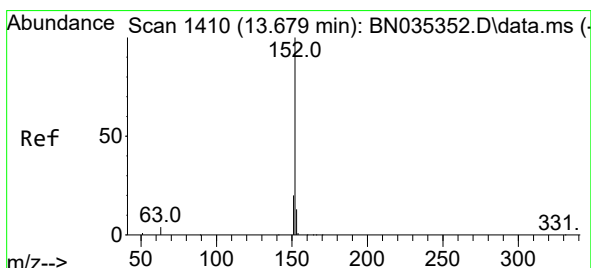
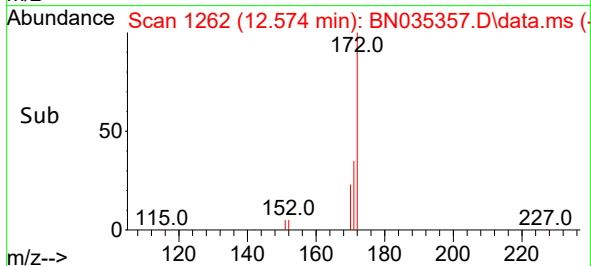
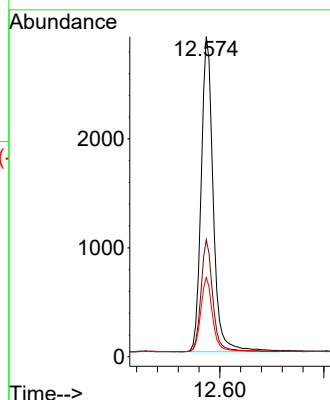
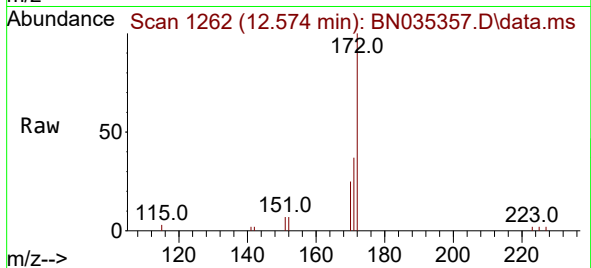




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

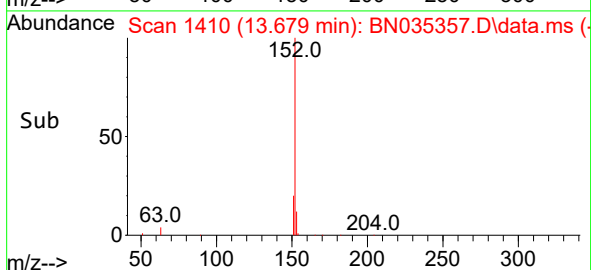
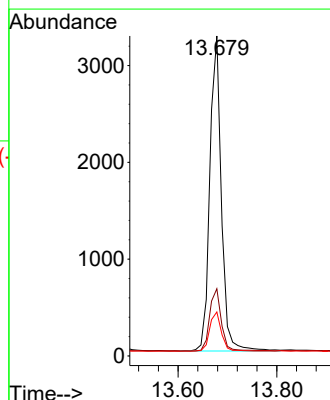
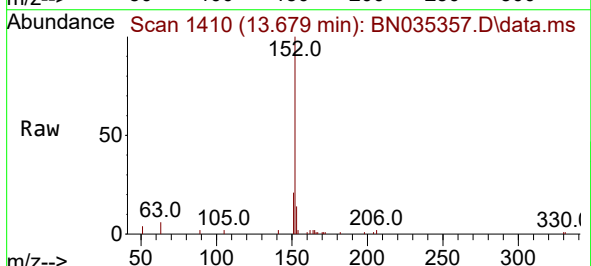
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

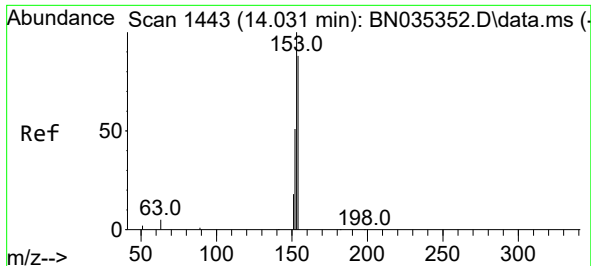
Tgt Ion:172 Resp: 4647
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.7 19.8 29.8



#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

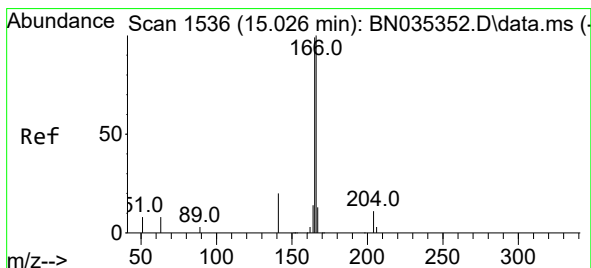
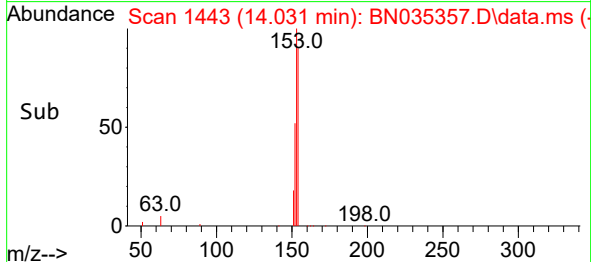
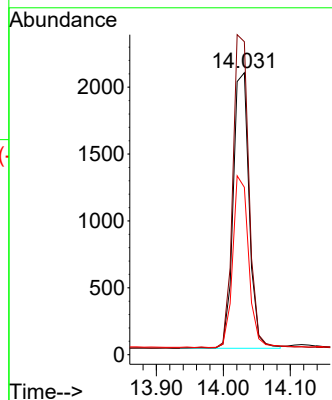
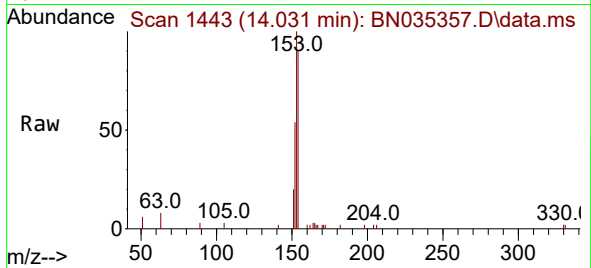




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

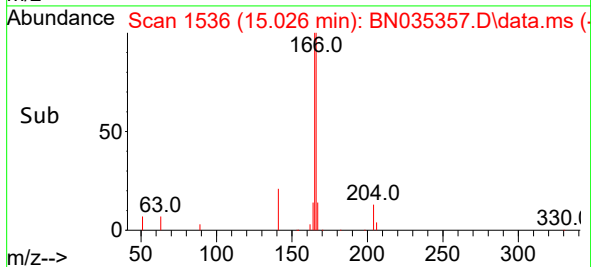
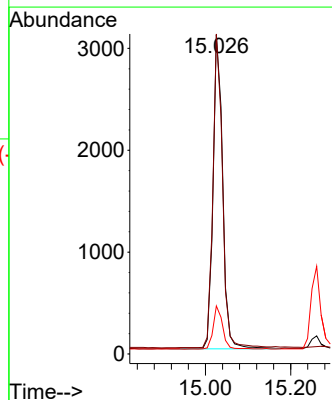
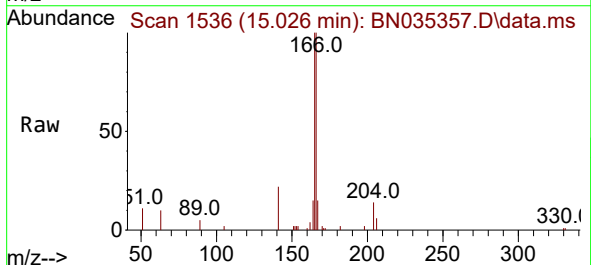
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

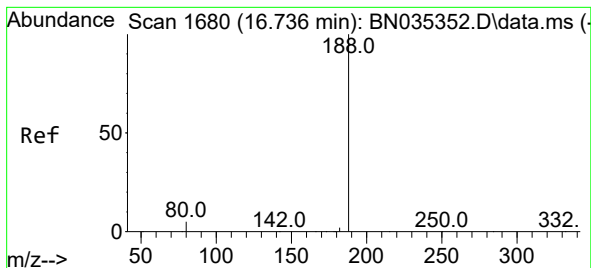
Tgt Ion:154 Resp: 3421
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6



#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

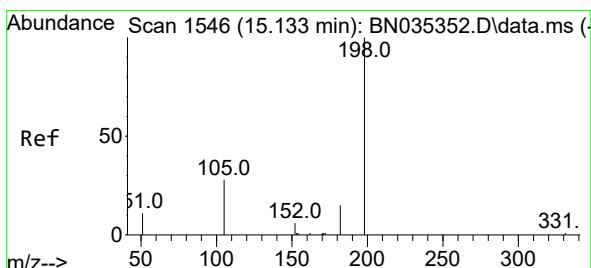
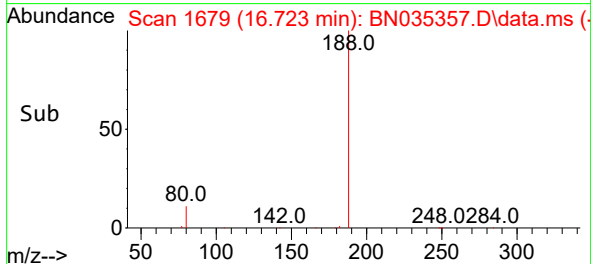
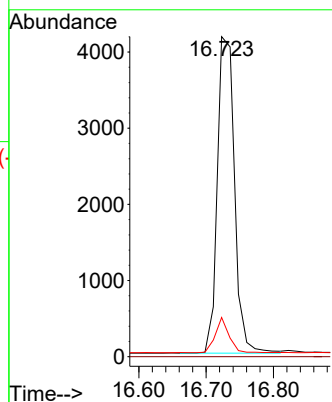
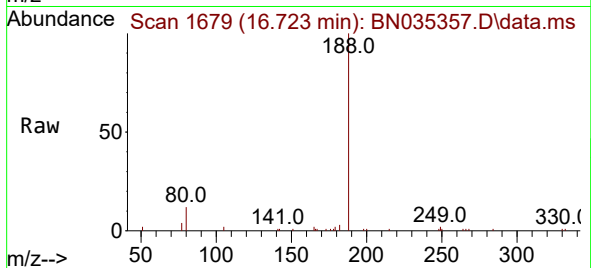
Tgt Ion:188 Resp: 7350

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

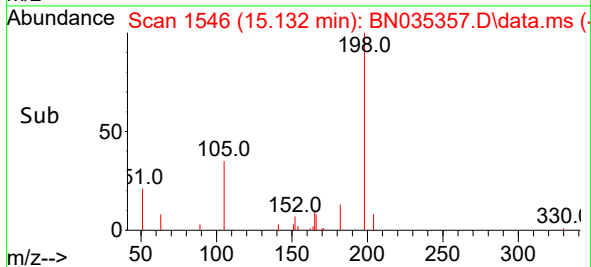
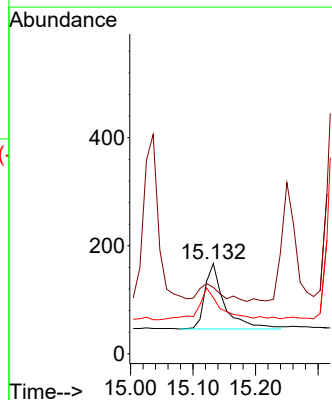
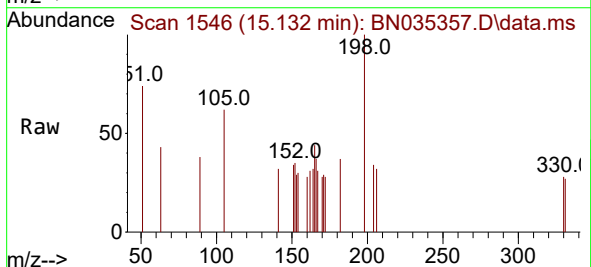
Tgt Ion:198 Resp: 263

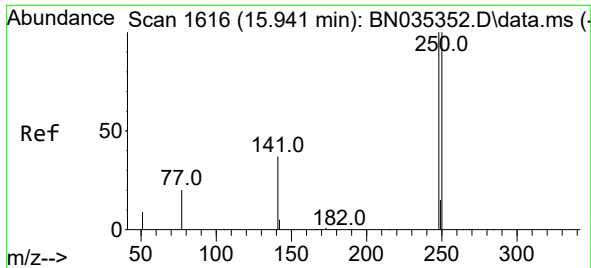
Ion Ratio Lower Upper

198 100

51 73.7 46.5 69.7#

105 62.3 45.3 67.9

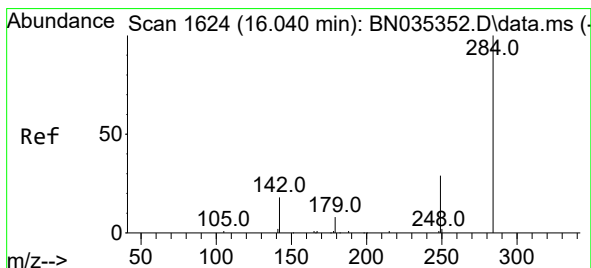
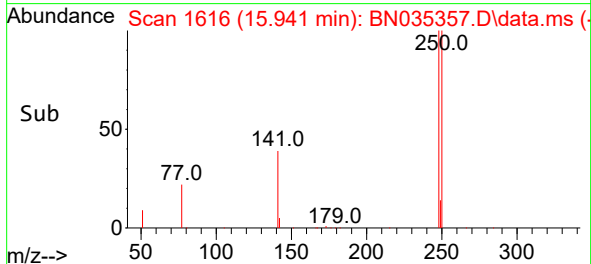
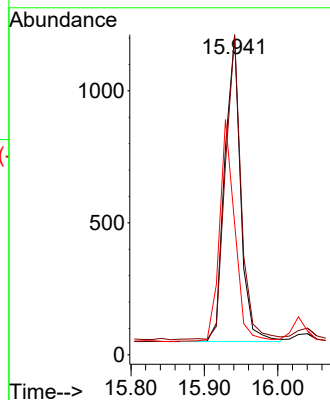
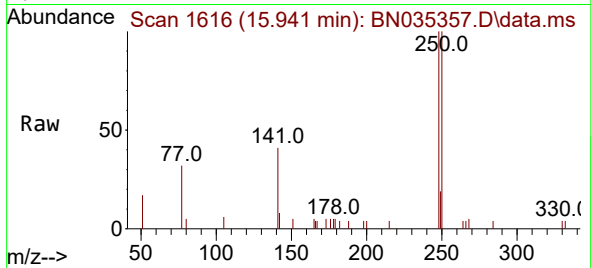




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

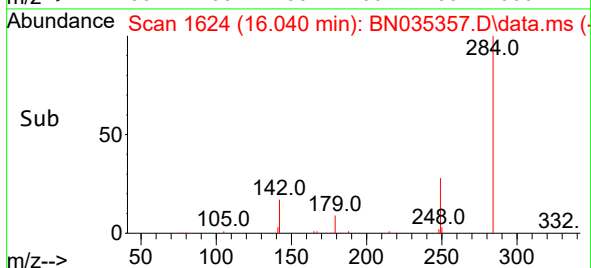
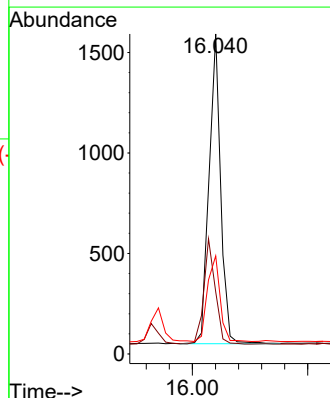
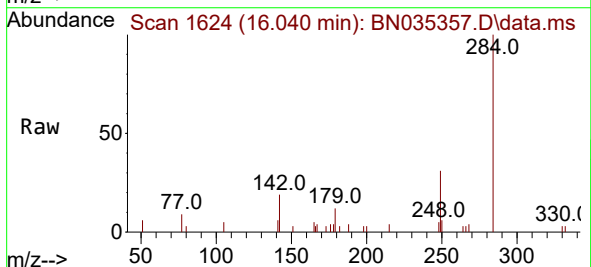
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

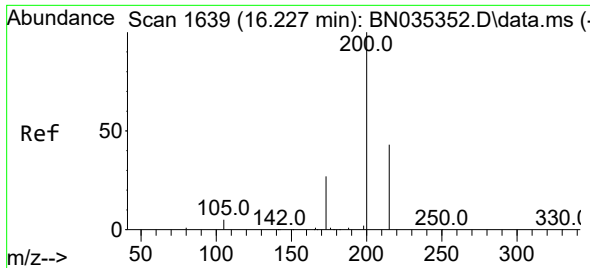
Tgt Ion:248 Resp: 1742
Ion Ratio Lower Upper
248 100
250 100.3 80.6 120.8
141 41.2 31.5 47.3



#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

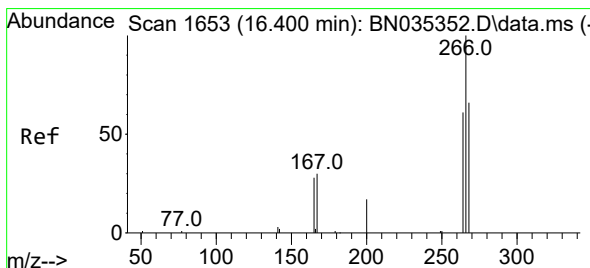
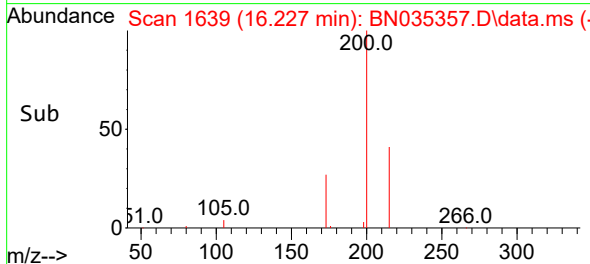
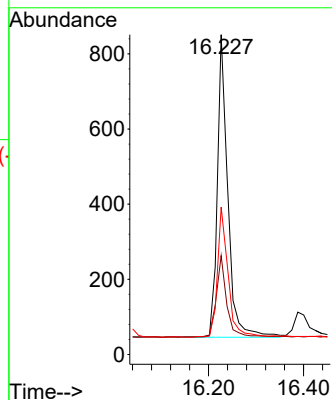
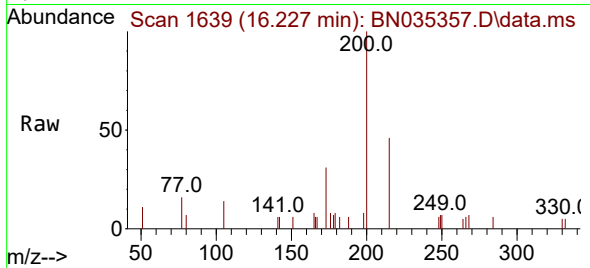




#23
 Atrazine
 Concen: 0.401 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

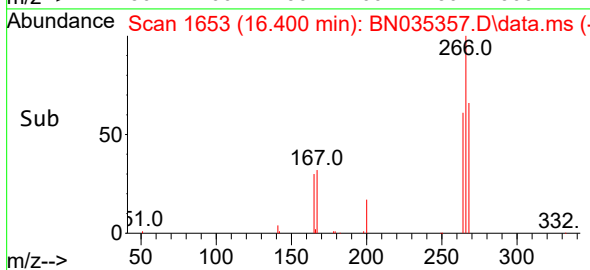
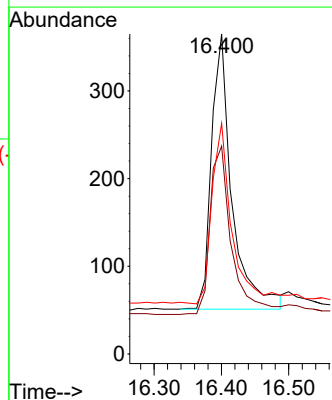
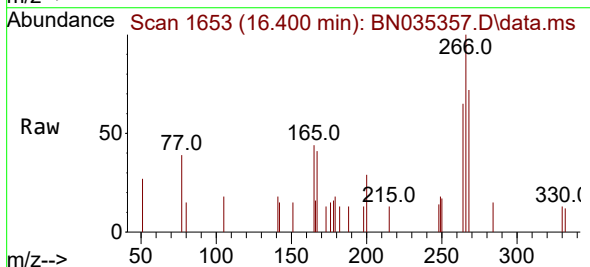
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

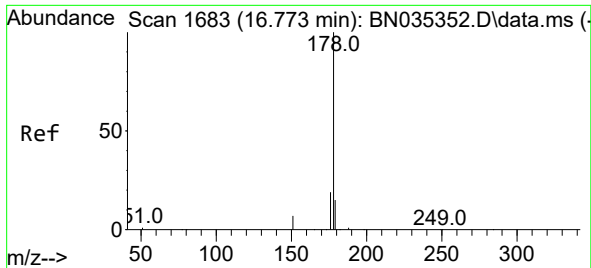
Tgt Ion:200 Resp: 1227
 Ion Ratio Lower Upper
 200 100
 173 30.9 24.1 36.1
 215 46.1 36.9 55.3



#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#

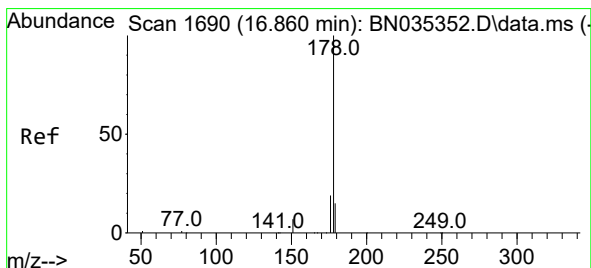
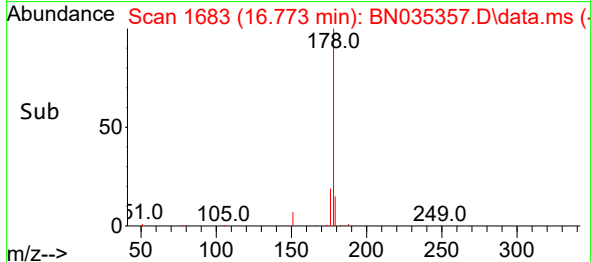
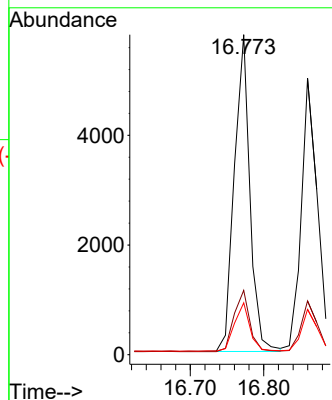
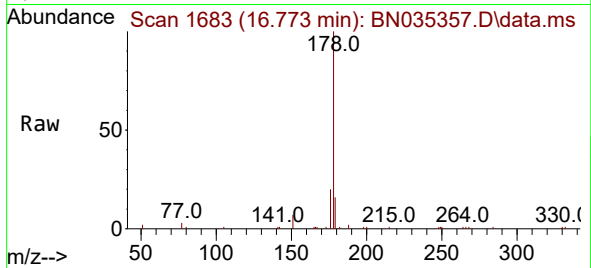




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

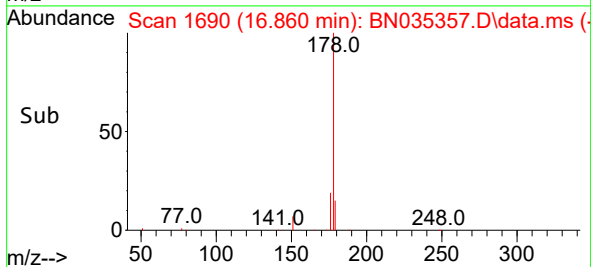
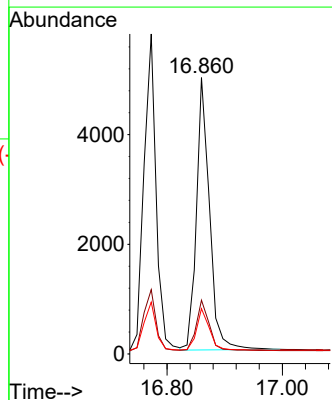
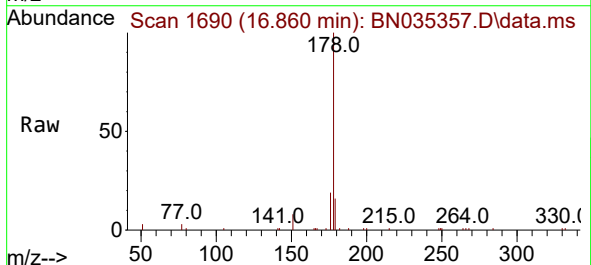
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

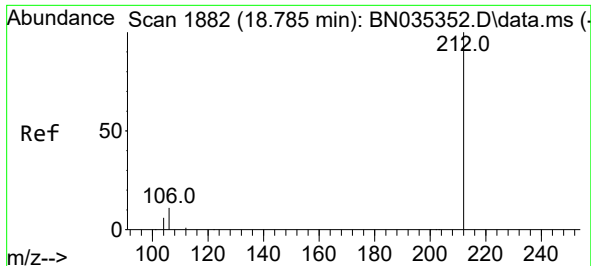
Tgt Ion:178 Resp: 8509
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5



#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

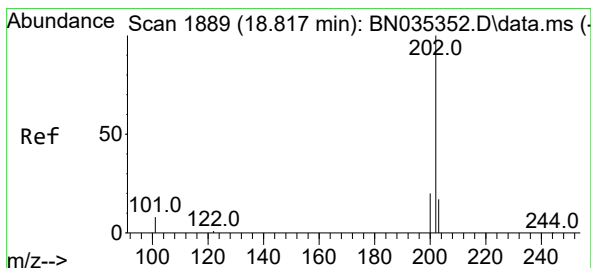
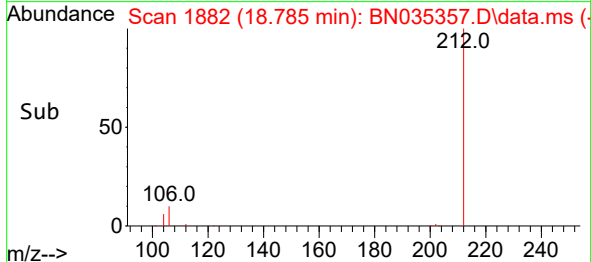
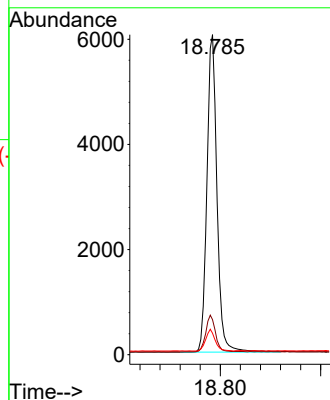
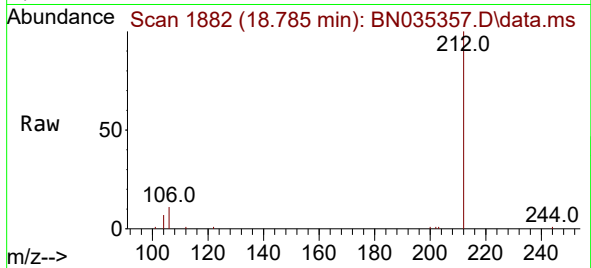




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

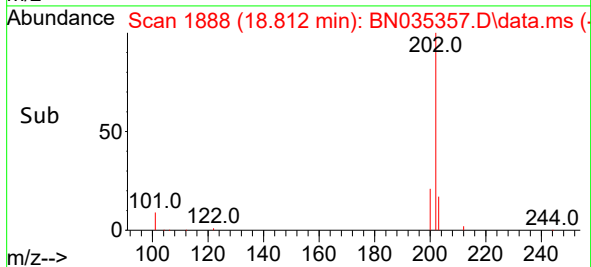
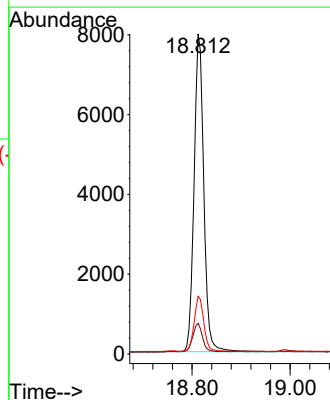
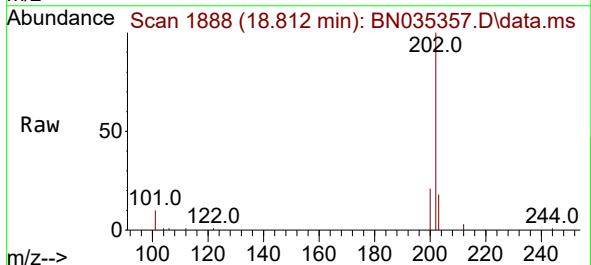
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

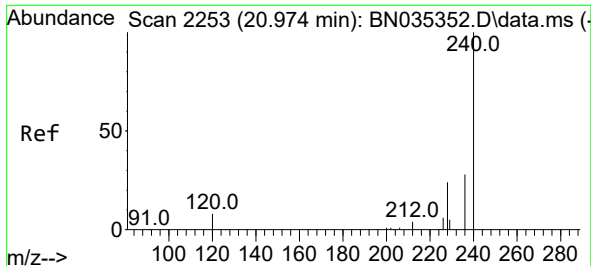
Tgt Ion:212 Resp: 8415
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.4 5.3 7.9



#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

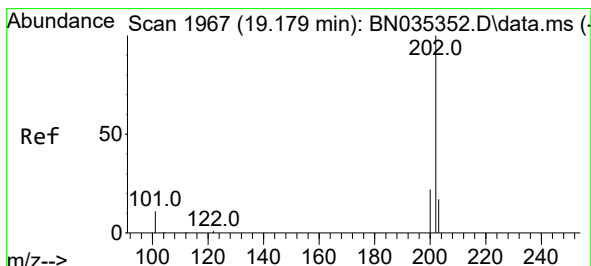
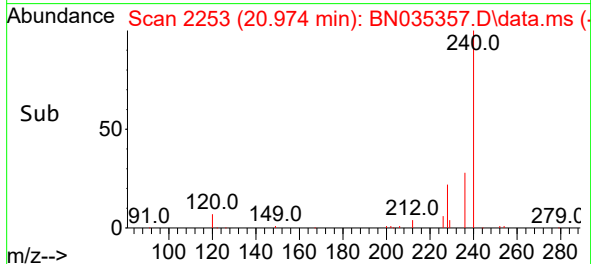
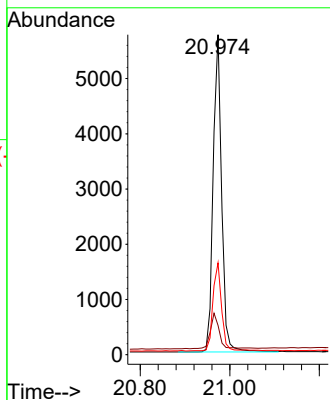
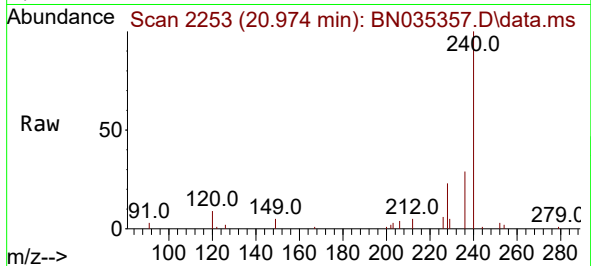




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

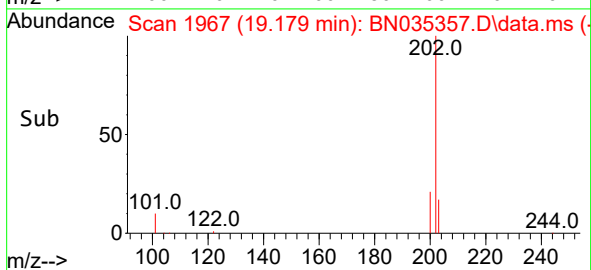
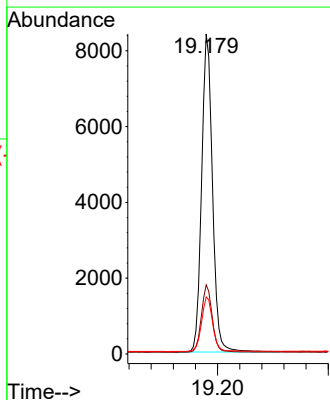
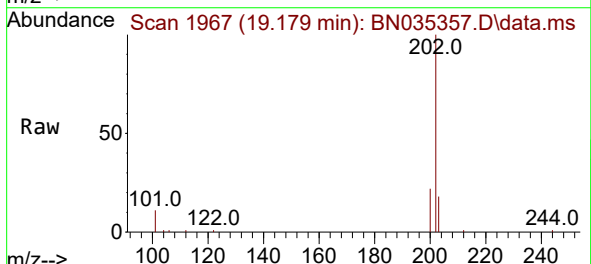
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

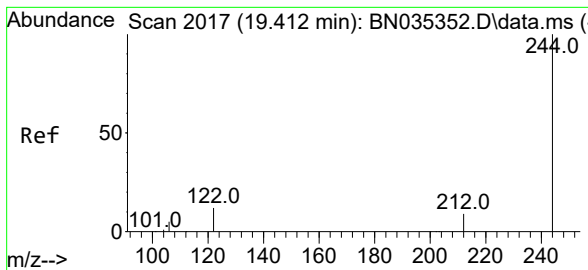
Tgt Ion:240 Resp: 7576
Ion Ratio Lower Upper
240 100
120 9.1 7.9 11.9
236 28.7 22.9 34.3



#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

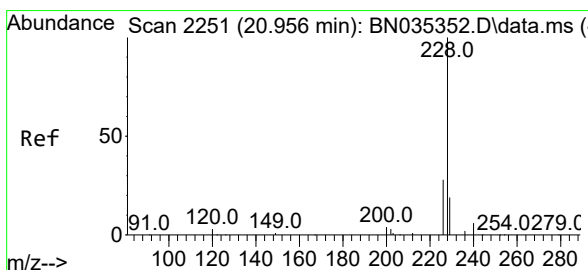
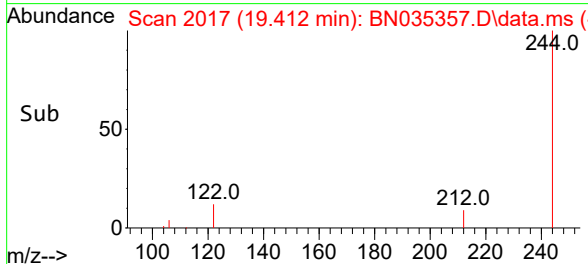
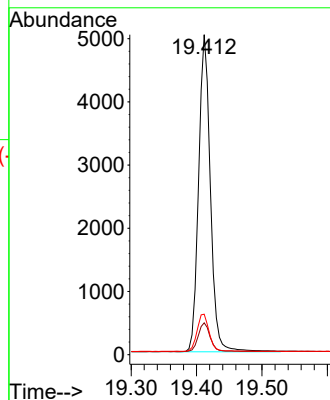
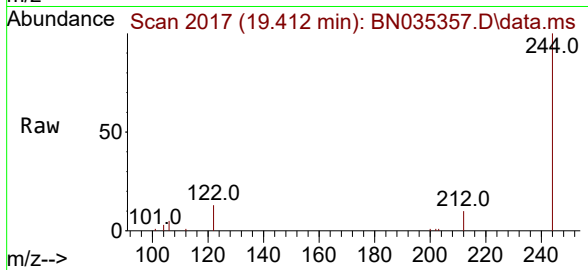
Tgt Ion:244 Resp: 6272

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

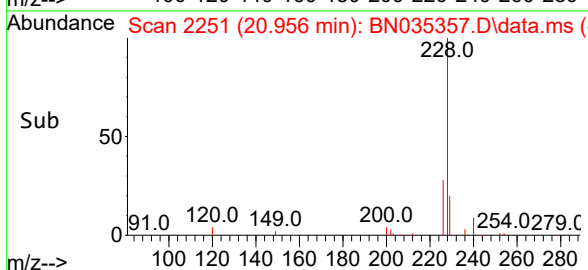
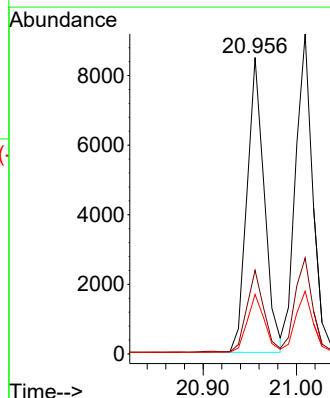
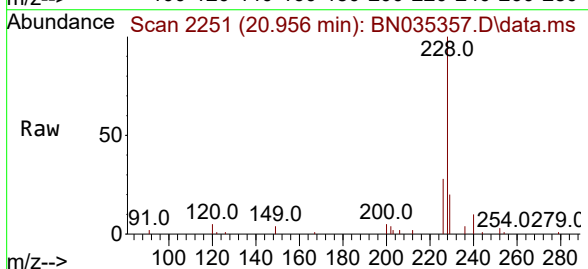
Tgt Ion:228 Resp: 10934

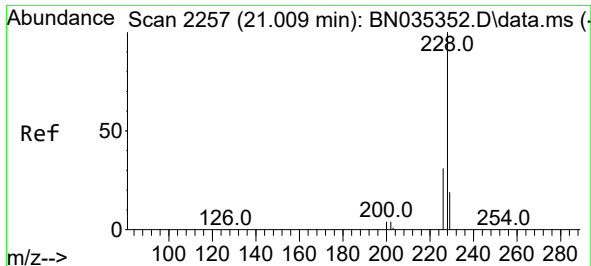
Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

229 20.1 15.8 23.8

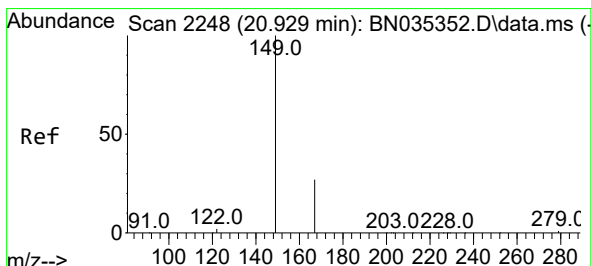
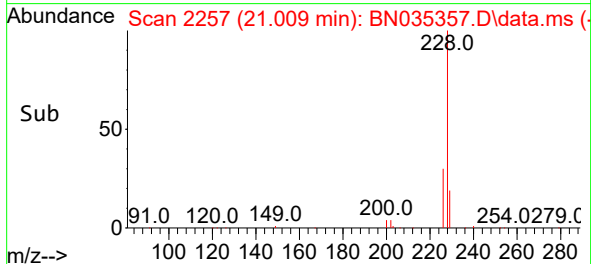
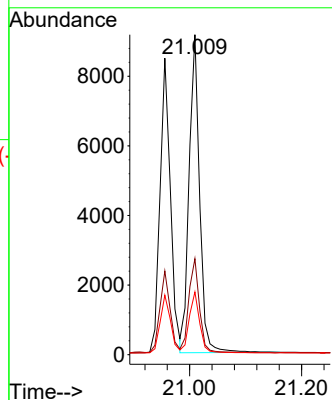
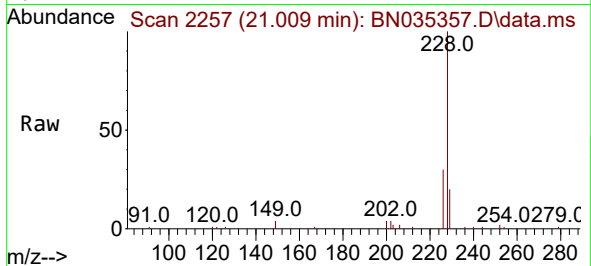




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

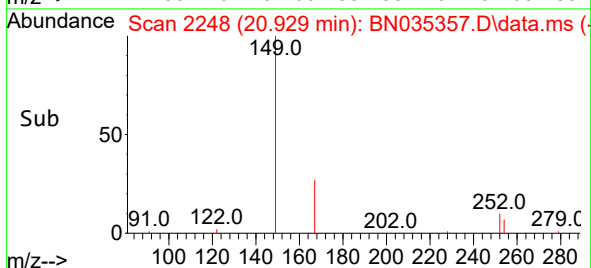
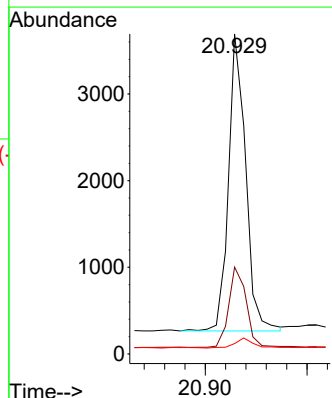
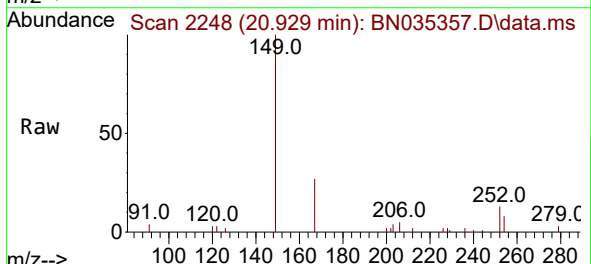
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

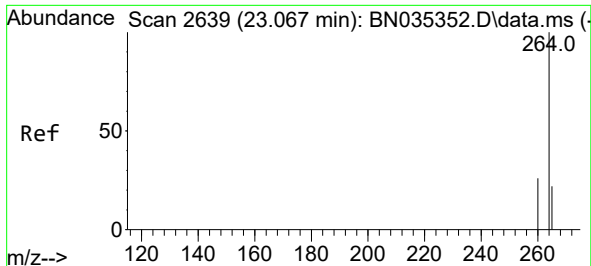
Tgt Ion:228 Resp: 11926
Ion Ratio Lower Upper
228 100
226 30.0 24.6 37.0
229 19.6 15.9 23.9



#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



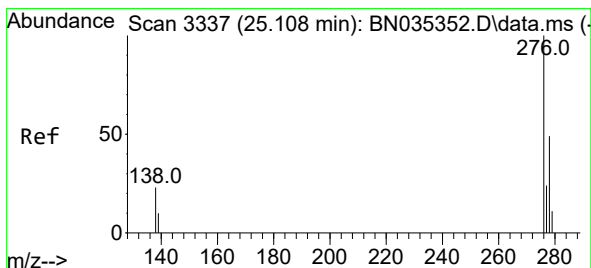
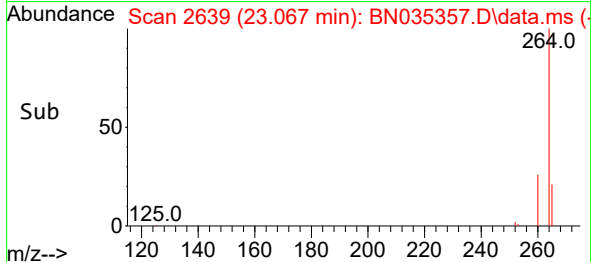
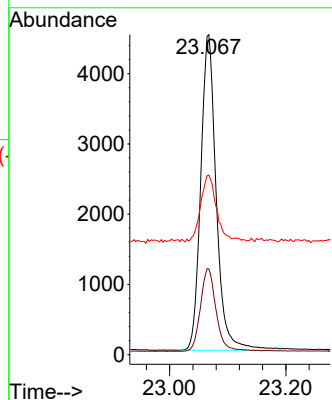
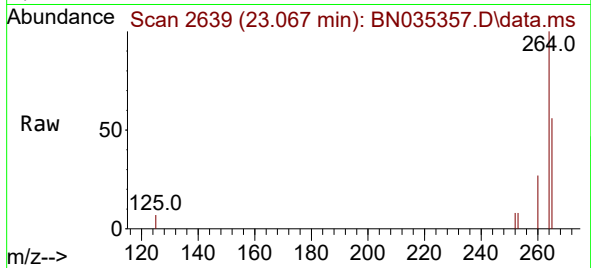


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

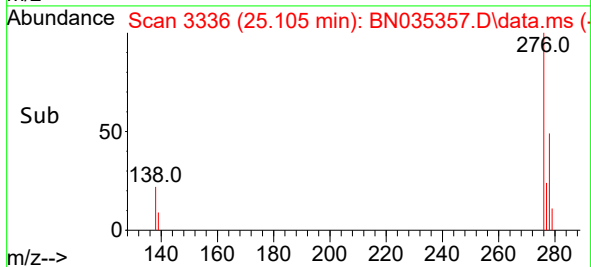
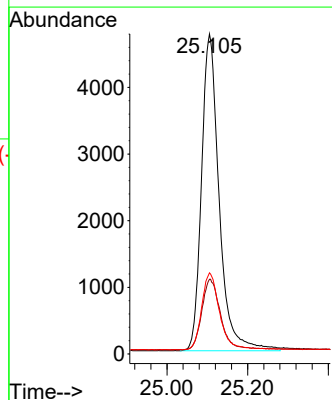
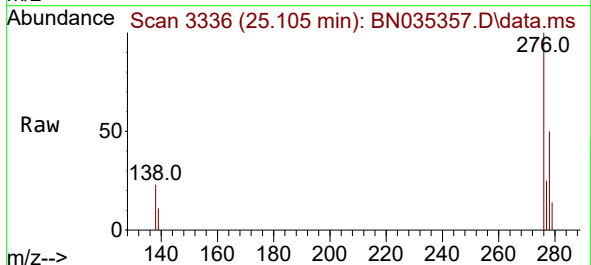
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

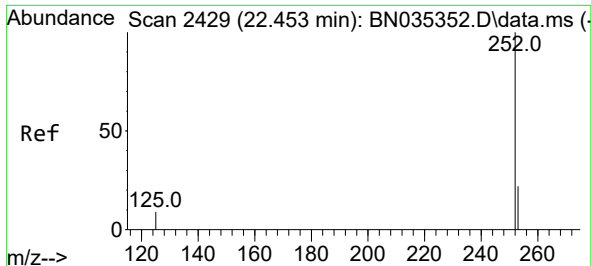


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

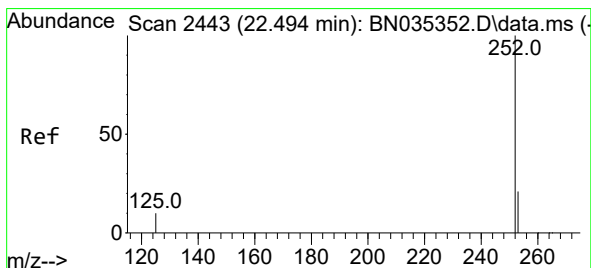
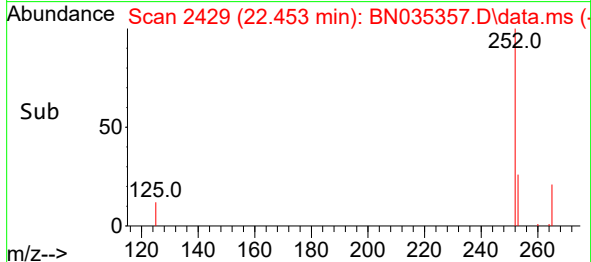
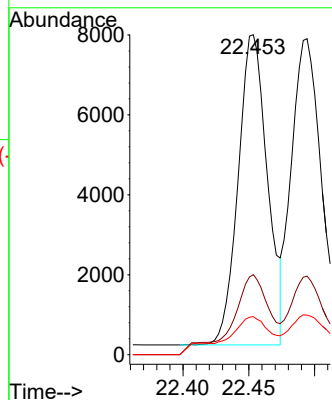
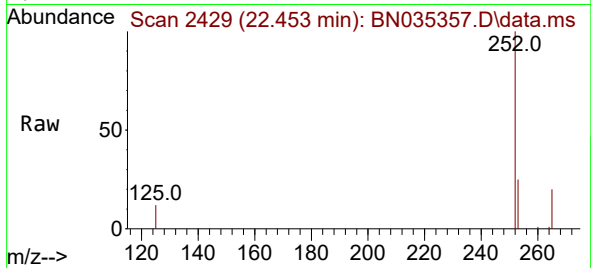




#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

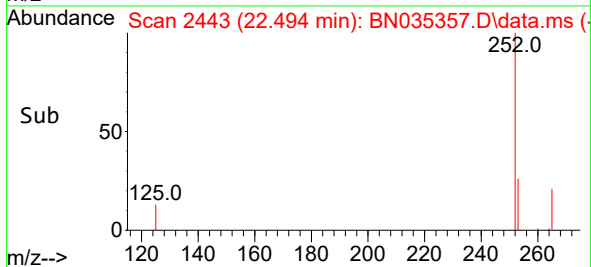
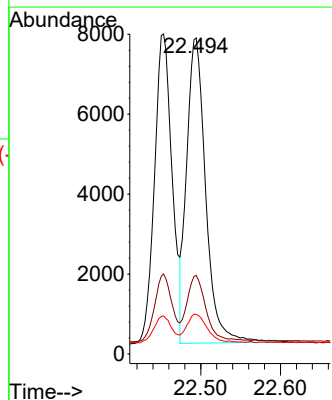
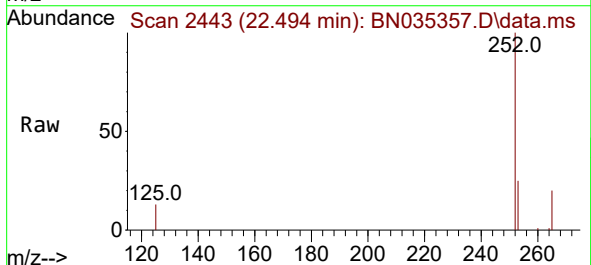
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

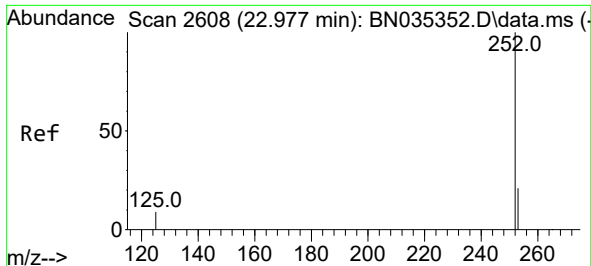
Tgt Ion:252 Resp: 12988
Ion Ratio Lower Upper
252 100
253 25.0 19.6 29.4
125 11.9 9.6 14.4



#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

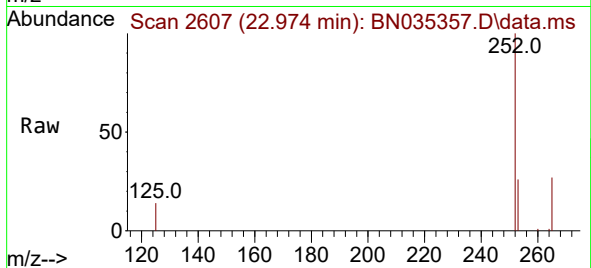
Tgt Ion:252 Resp: 12669
Ion Ratio Lower Upper
252 100
253 24.8 19.5 29.3
125 12.5 10.2 15.4



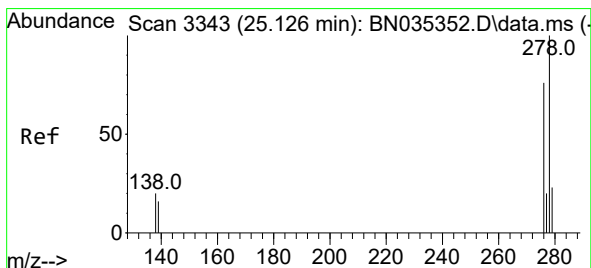
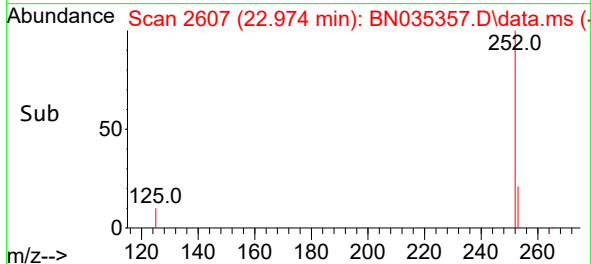
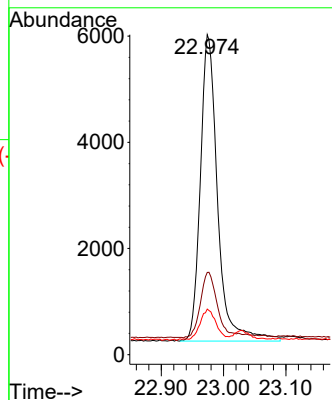


#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 20
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

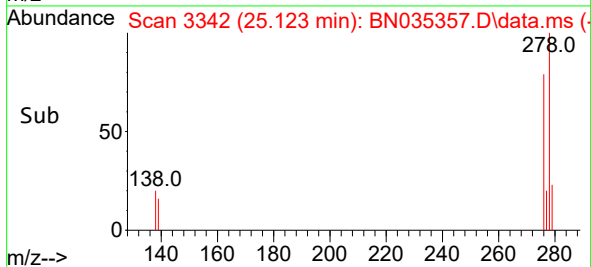
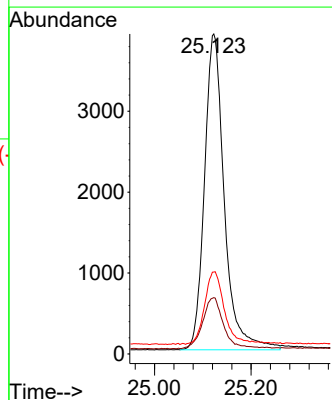
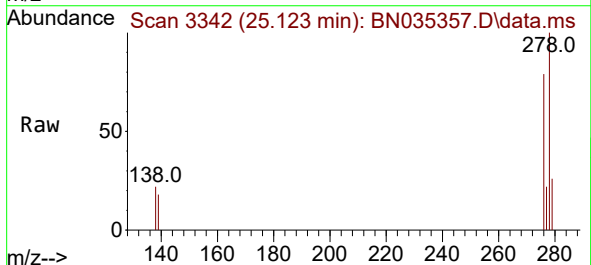


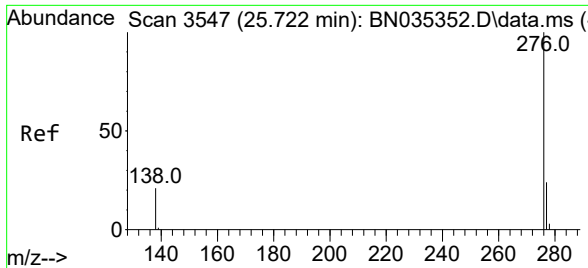
Tgt Ion:252 Resp: 11094
Ion Ratio Lower Upper
252 100
253 25.7 20.2 30.4
125 14.3 10.9 16.3



#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

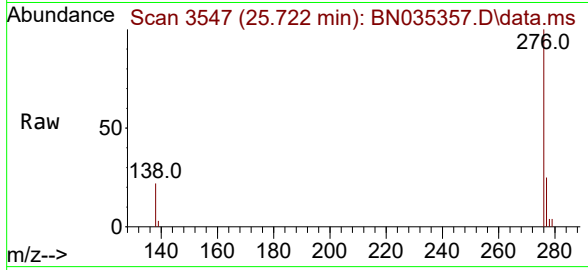
Tgt Ion:278 Resp: 11141
Ion Ratio Lower Upper
278 100
139 17.6 14.2 21.4
279 25.6 20.5 30.7



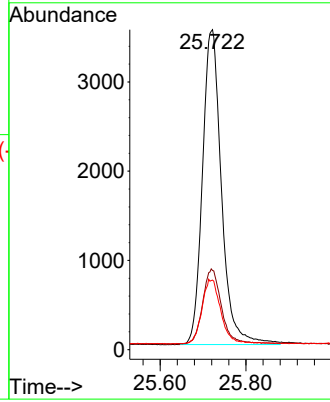
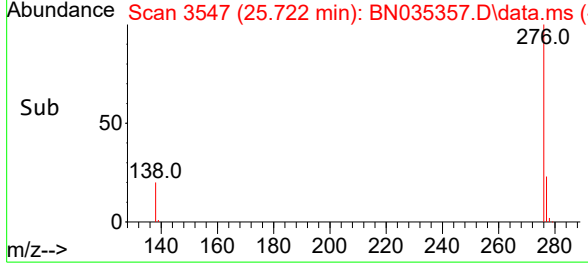


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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\BN121924\
 Data File : BN035731.D
 Acq On : 20 Dec 2024 08:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

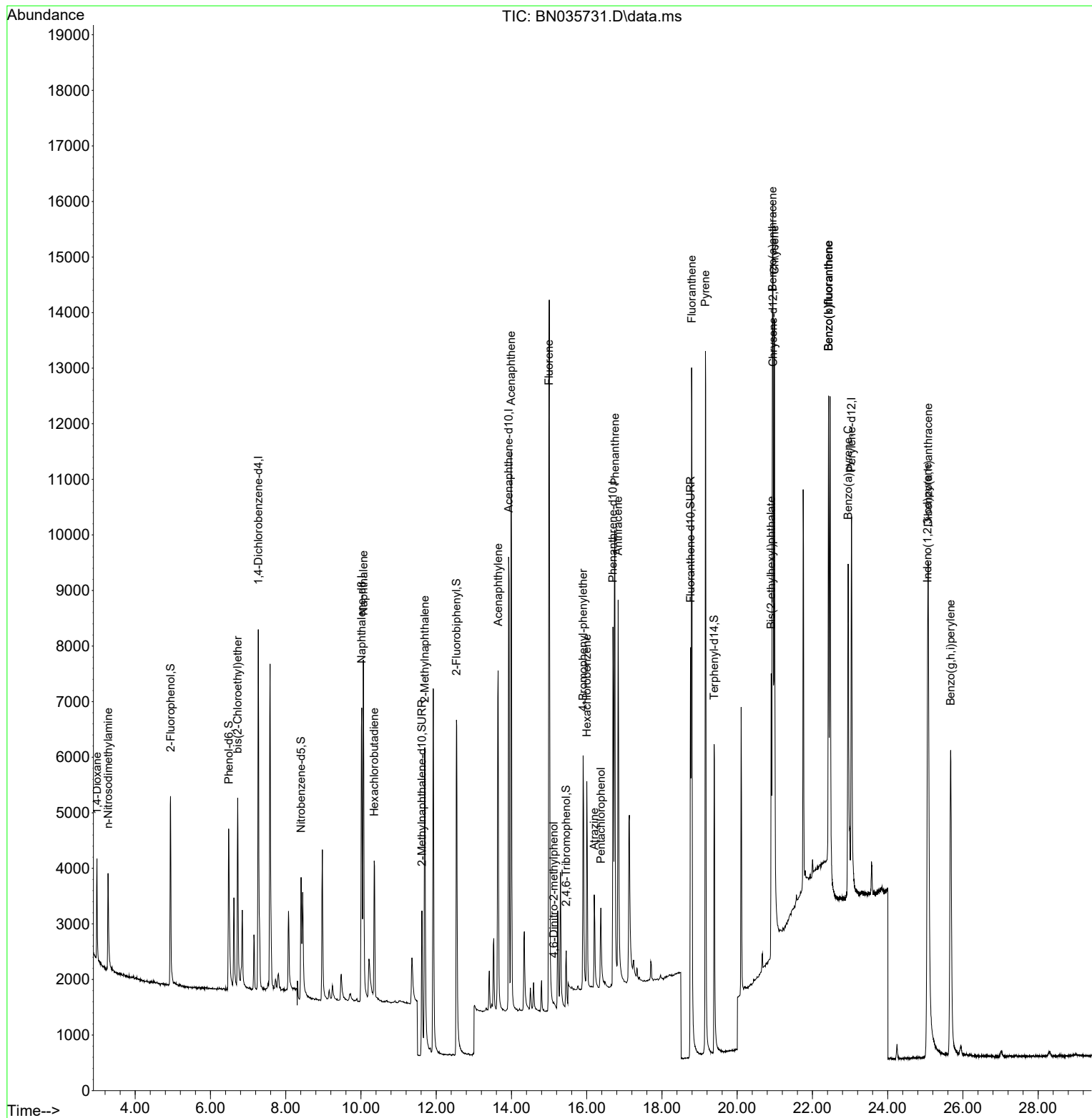
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	3239	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	8431	0.400	ng	# 0.00
13) Acenaphthene-d10	13.924	164	5341	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10575	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	8878	0.400	ng	0.00
35) Perylene-d12	23.038	264	9229	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	3206	0.396	ng	0.00
5) Phenol-d6	6.484	99	3691	0.379	ng	0.00
8) Nitrobenzene-d5	8.408	82	2692	0.523	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	4741	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	1180	0.311	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	7347	0.364	ng	0.00
27) Fluoranthene-d10	18.761	212	10416	0.347	ng	0.00
31) Terphenyl-d14	19.388	244	7453	0.426	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.981	88	1312	0.424	ng	96
3) n-Nitrosodimethylamine	3.278	42	1070	0.415	ng	# 94
6) bis(2-Chloroethyl)ether	6.723	93	2987	0.365	ng	100
9) Naphthalene	10.062	128	8331	0.375	ng	100
10) Hexachlorobutadiene	10.351	225	2194	0.428	ng	# 99
12) 2-Methylnaphthalene	11.697	142	5286	0.332	ng	100
16) Acenaphthylene	13.646	152	7931	0.354	ng	100
17) Acenaphthene	13.989	154	5347	0.359	ng	99
18) Fluorene	14.993	166	7004	0.329	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	83	0.080	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2216	0.358	ng	# 71
22) Hexachlorobenzene	16.003	284	3183	0.438	ng	97
23) Atrazine	16.202	200	1696	0.385	ng	98
24) Pentachlorophenol	16.375	266	1107	0.350	ng	# 83
25) Phenanthrene	16.748	178	10192	0.351	ng	100
26) Anthracene	16.835	178	9082	0.346	ng	99
28) Fluoranthene	18.789	202	12678	0.324	ng	99
30) Pyrene	19.156	202	13069	0.399	ng	100
32) Benzo(a)anthracene	20.938	228	10542	0.339	ng	100
33) Chrysene	20.991	228	12448	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5271	0.430	ng	99
36) Indeno(1,2,3-cd)pyrene	25.061	276	13578	0.376	ng	96
37) Benzo(b)fluoranthene	22.427	252	14777	0.438	ng	97
38) Benzo(k)fluoranthene	22.427	252	14777	0.445	ng	98
39) Benzo(a)pyrene	22.947	252	10146	0.365	ng	# 92
40) Dibenzo(a,h)anthracene	25.079	278	10523	0.370	ng	97
41) Benzo(g,h,i)perylene	25.672	276	11906	0.400	ng	98

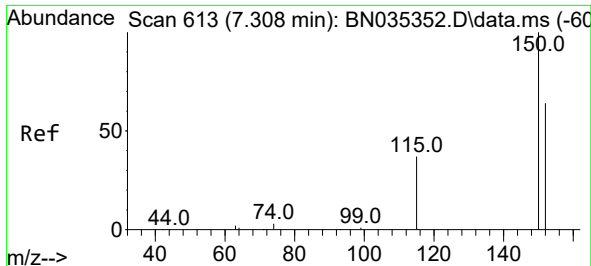
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035731.D
Acq On : 20 Dec 2024 08:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

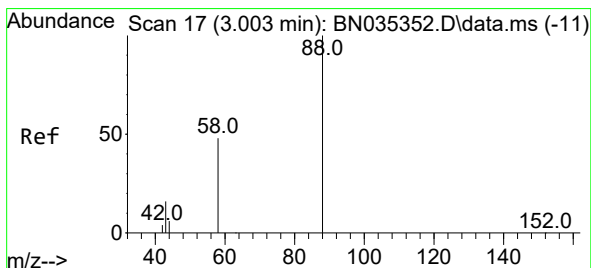
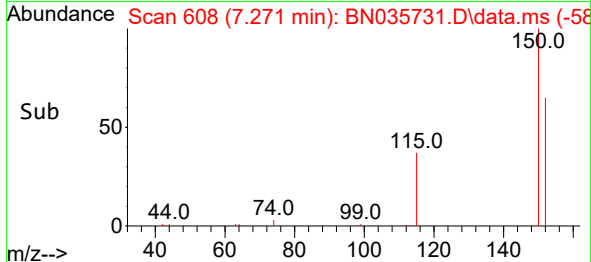
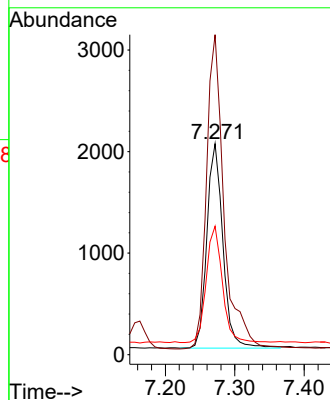
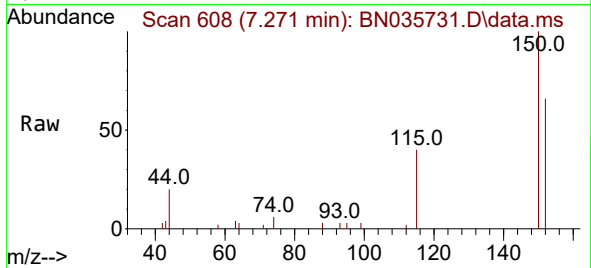




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

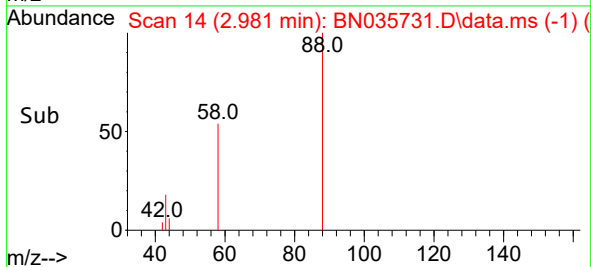
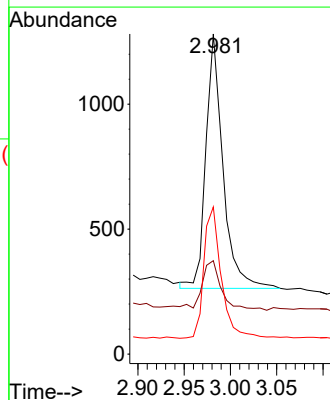
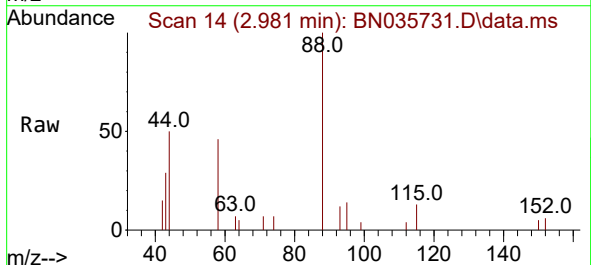
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

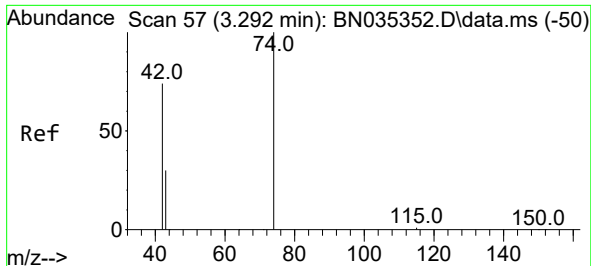
Tgt Ion:152 Resp: 3239
Ion Ratio Lower Upper
152 100
150 151.6 124.0 186.0
115 60.9 49.6 74.4



#2
1,4-Dioxane
Concen: 0.424 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 88 Resp: 1312
Ion Ratio Lower Upper
88 100
43 23.4 17.2 25.8
58 52.7 44.5 66.7

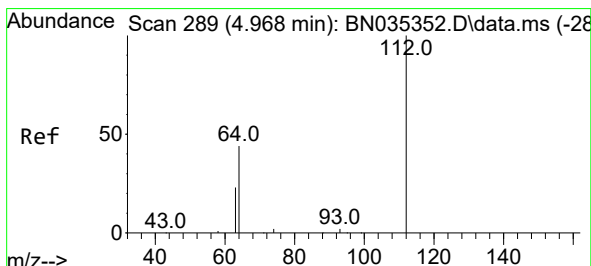
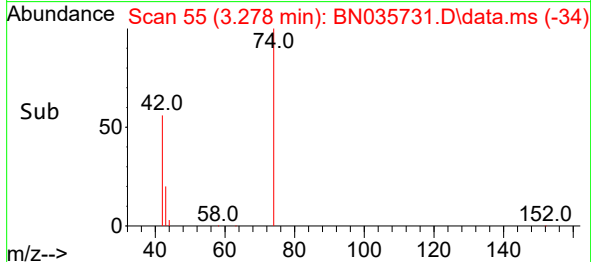
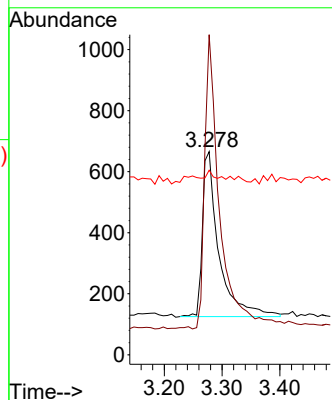
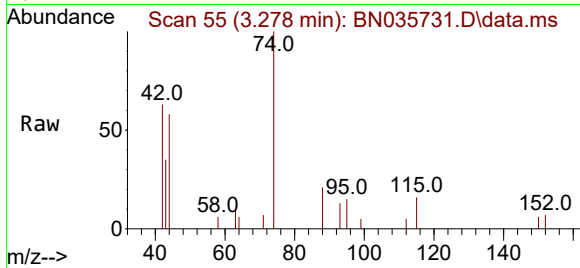




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.278 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

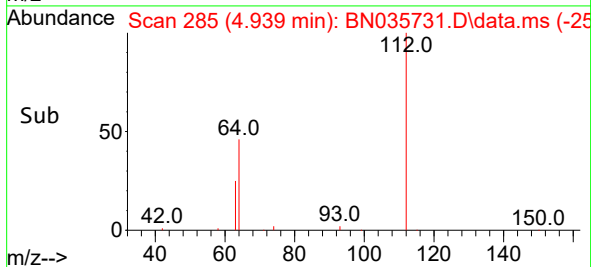
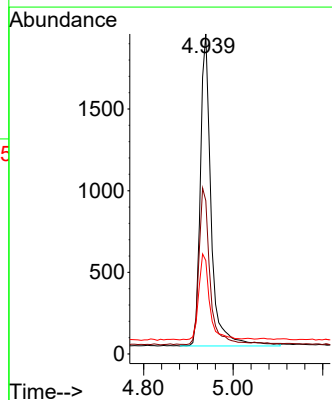
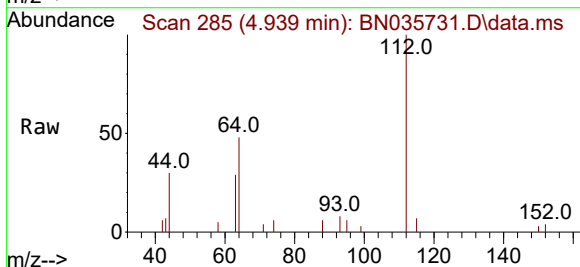
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

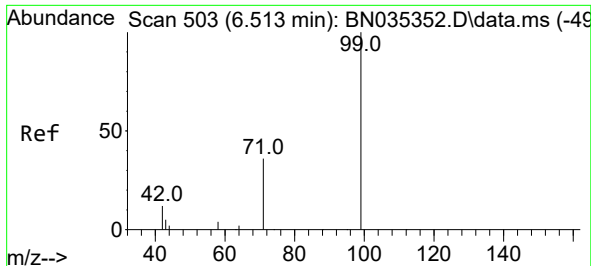
Tgt Ion: 42 Resp: 1070
Ion Ratio Lower Upper
42 100
74 163.5 124.9 187.3
44 1.8 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.396 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 112 Resp: 3206
Ion Ratio Lower Upper
112 100
64 50.6 39.8 59.8
63 27.8 21.0 31.6

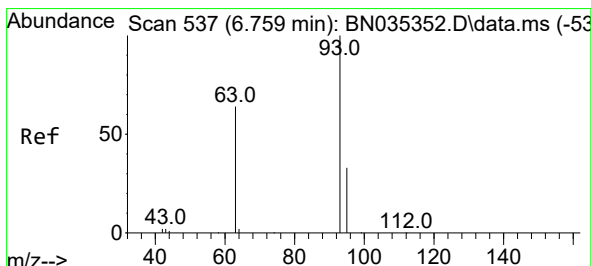
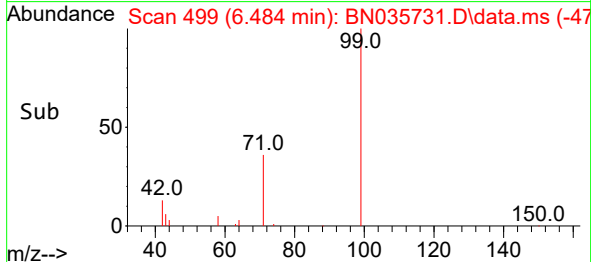
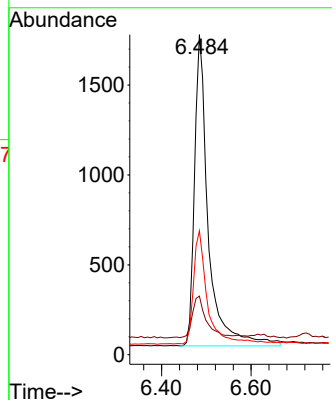
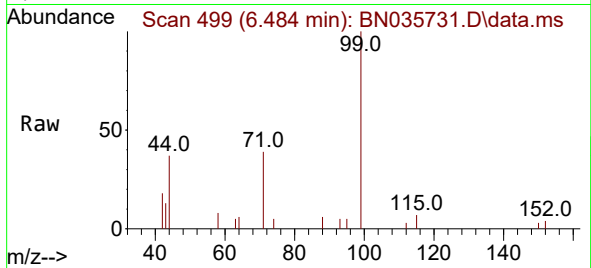




#5
Phenol-d6
Concen: 0.379 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

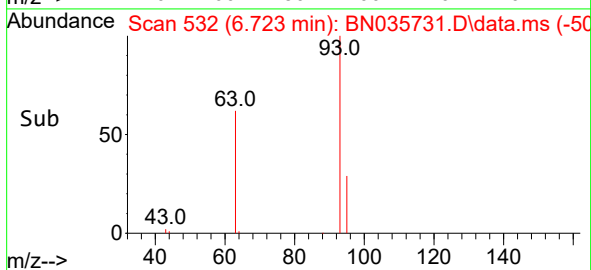
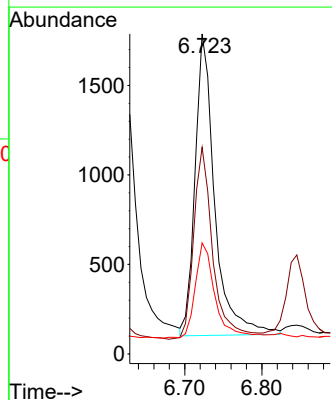
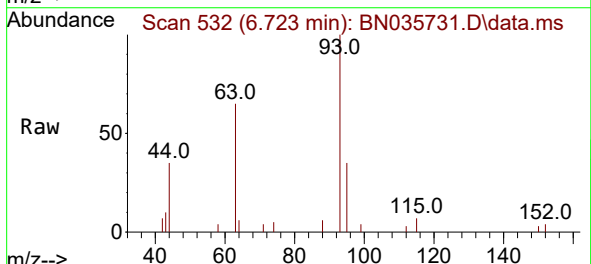
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

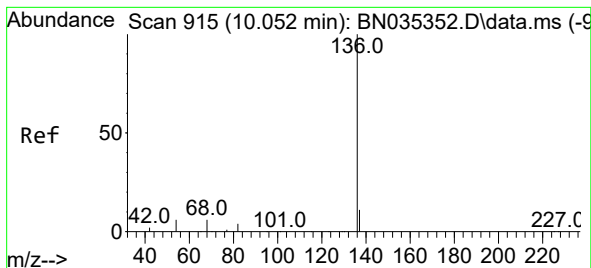
Tgt Ion: 99 Resp: 3691
Ion Ratio Lower Upper
99 100
42 13.8 11.4 17.2
71 36.7 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion: 93 Resp: 2987
Ion Ratio Lower Upper
93 100
63 62.5 50.4 75.6
95 32.2 25.7 38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.020 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 8431

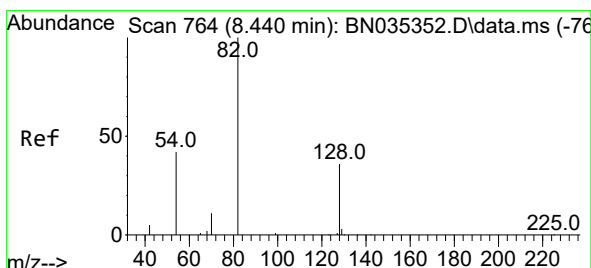
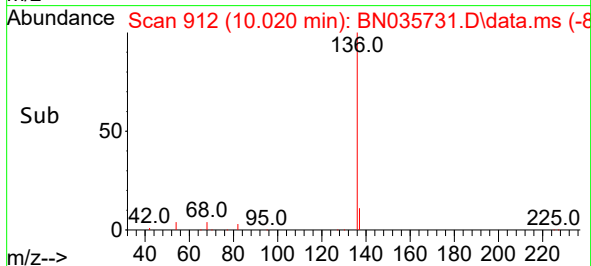
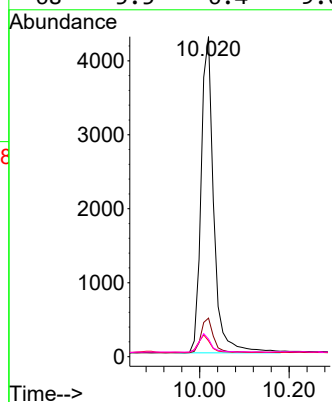
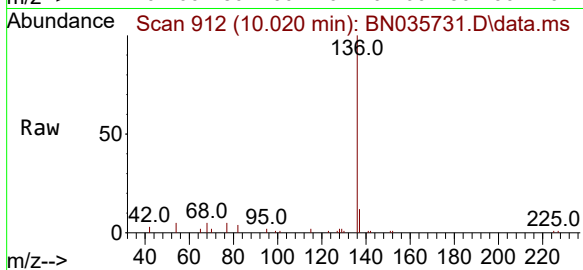
Ion Ratio Lower Upper

136 100

137 12.0 10.2 15.2

54 5.0 6.1 9.1#

68 5.5 6.4 9.6#



#8

Nitrobenzene-d5

Concen: 0.523 ng

RT: 8.408 min Scan# 761

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

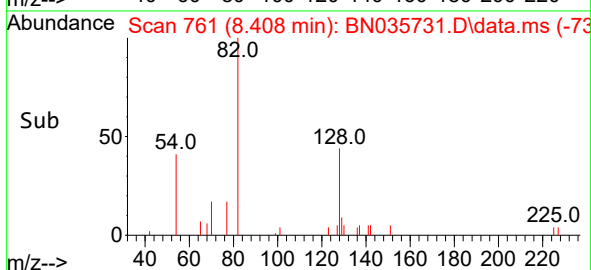
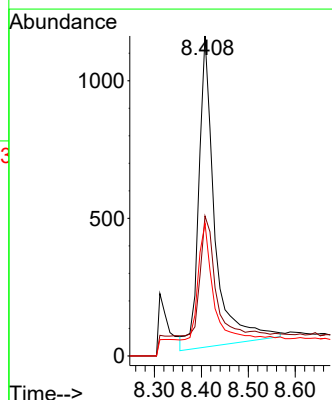
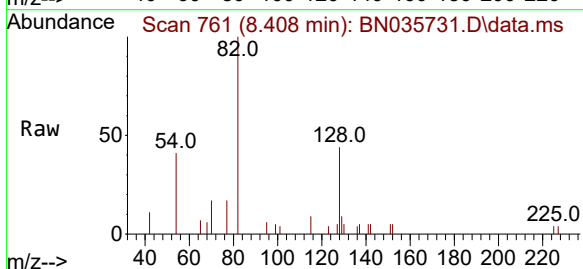
Tgt Ion: 82 Resp: 2692

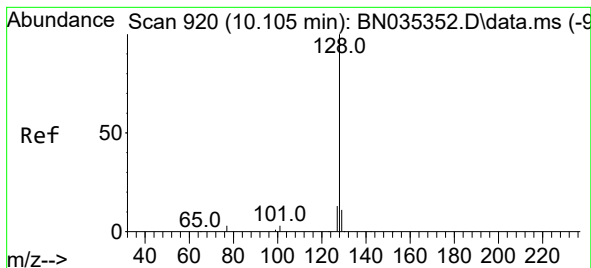
Ion Ratio Lower Upper

82 100

128 43.8 33.4 50.0

54 41.4 36.7 55.1





#9

Naphthalene

Concen: 0.375 ng

RT: 10.062 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

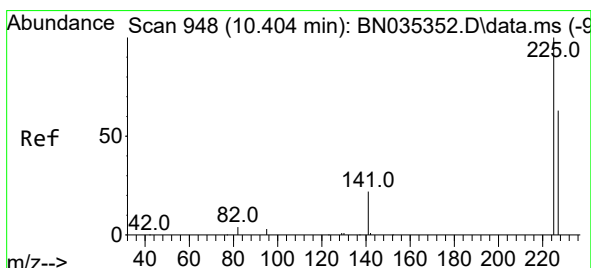
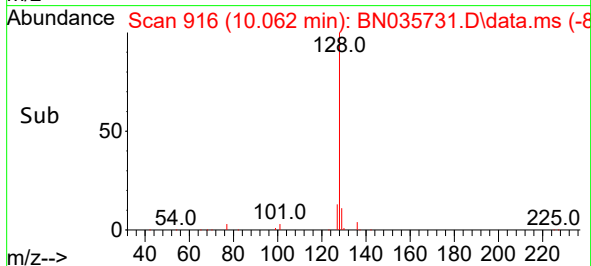
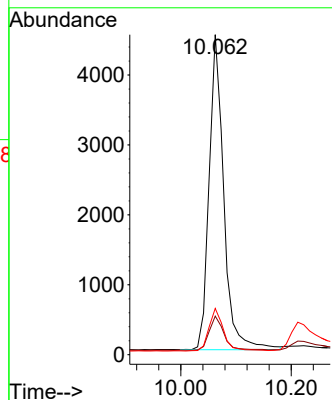
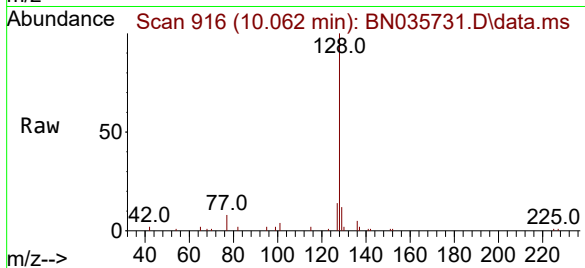
Tgt Ion:128 Resp: 8331

Ion Ratio Lower Upper

128 100

129 12.0 9.8 14.6

127 14.4 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.428 ng

RT: 10.351 min Scan# 943

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

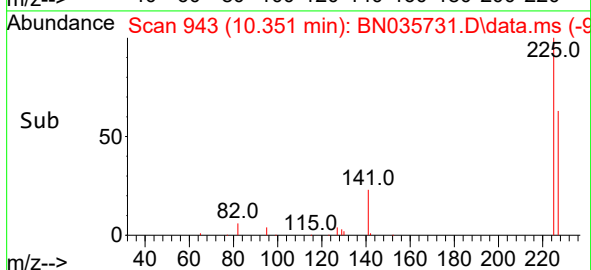
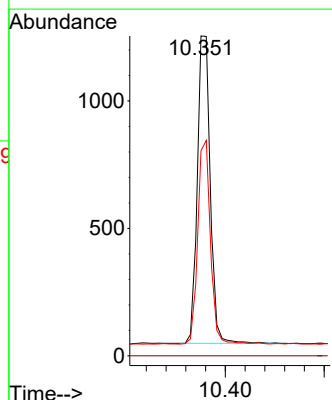
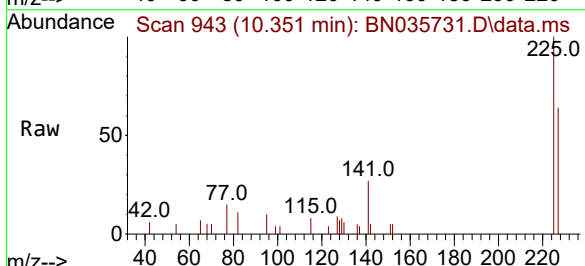
Tgt Ion:225 Resp: 2194

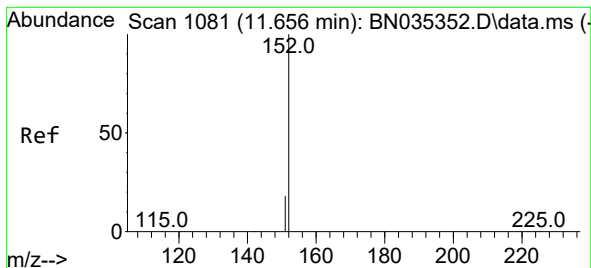
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.1 51.3 76.9

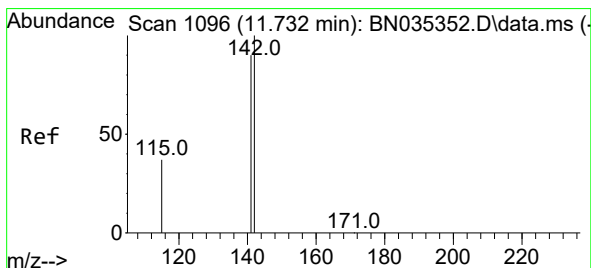
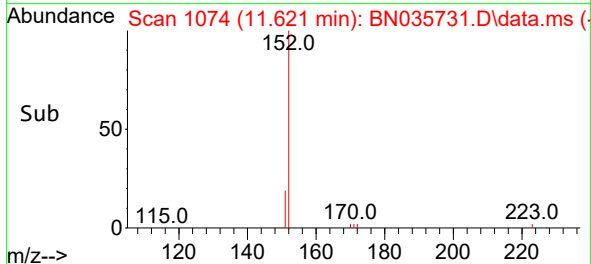
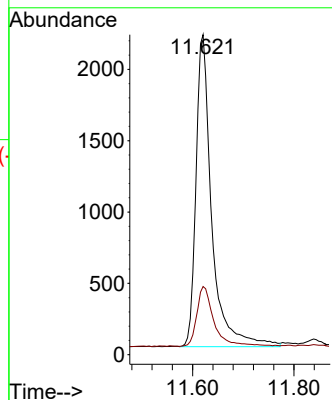
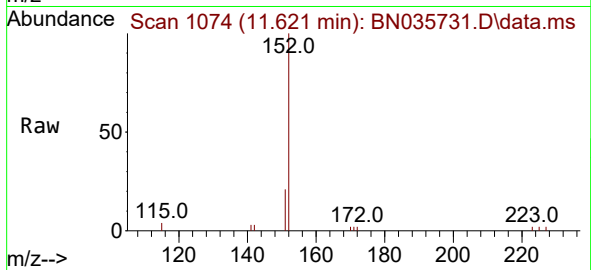




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 11.621 min Scan# 1074
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

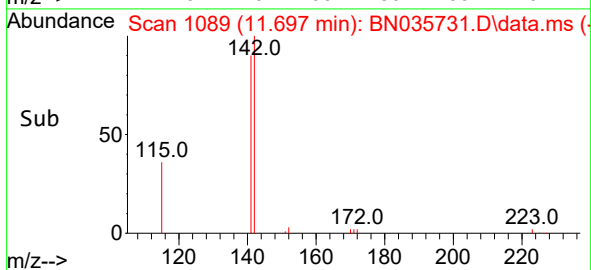
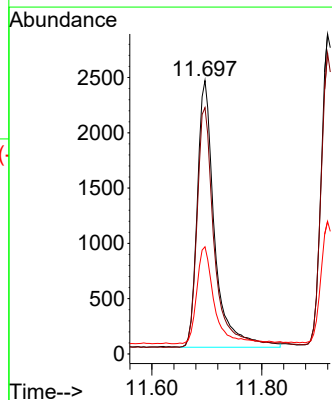
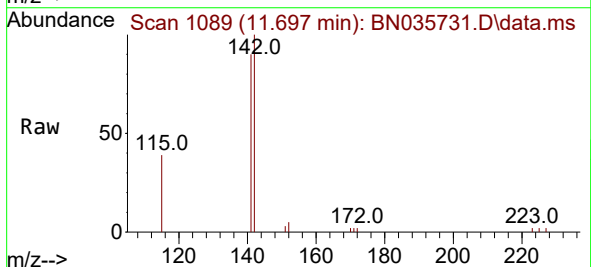
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

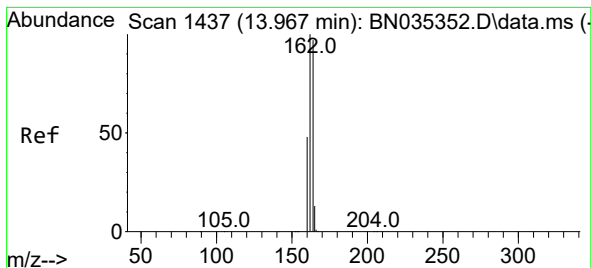
Tgt Ion:152 Resp: 4741
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:142 Resp: 5286
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 39.2 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

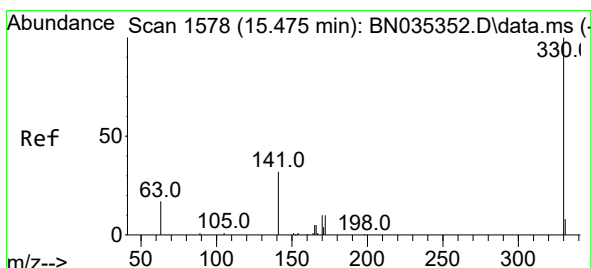
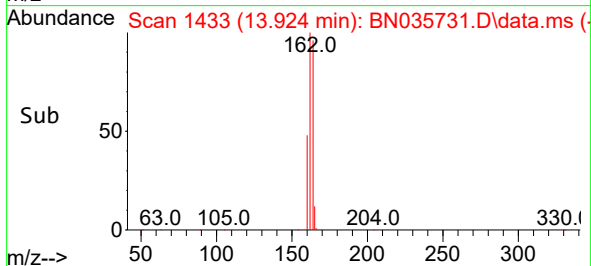
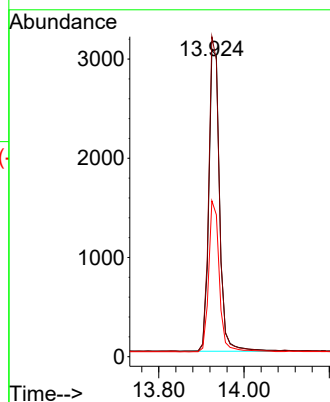
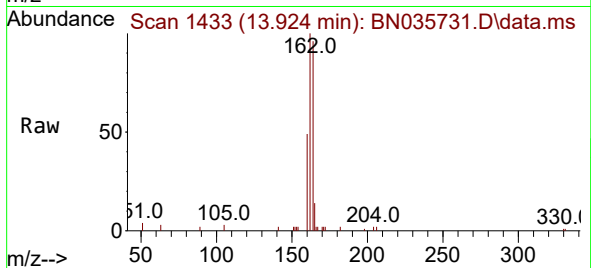
Tgt Ion:164 Resp: 5341

Ion Ratio Lower Upper

164 100

162 104.3 82.2 123.2

160 50.8 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.311 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

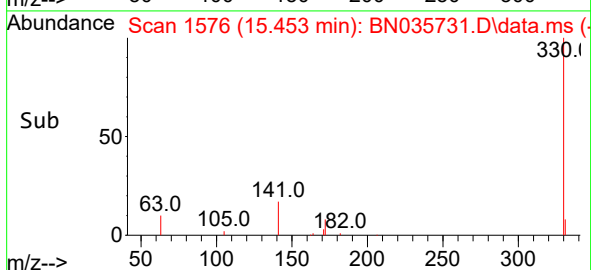
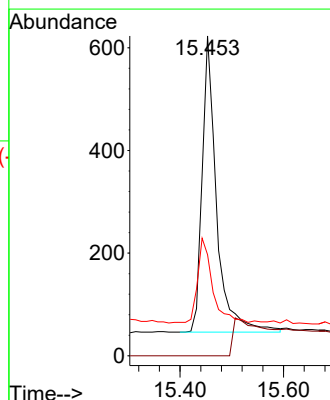
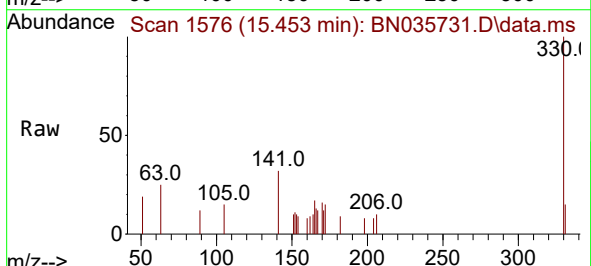
Tgt Ion:330 Resp: 1180

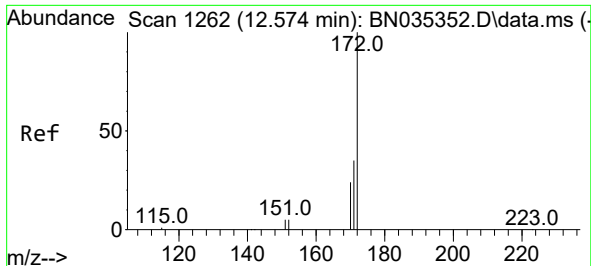
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 28.6 26.6 40.0

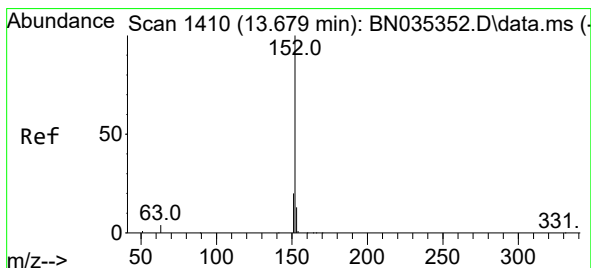
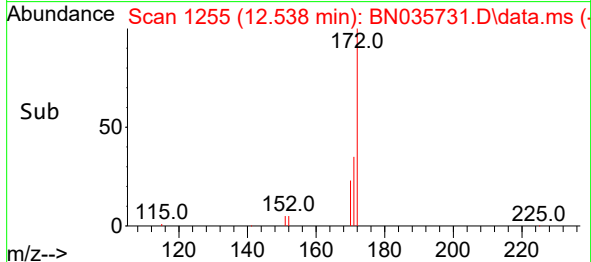
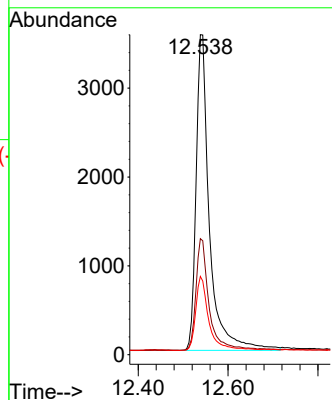
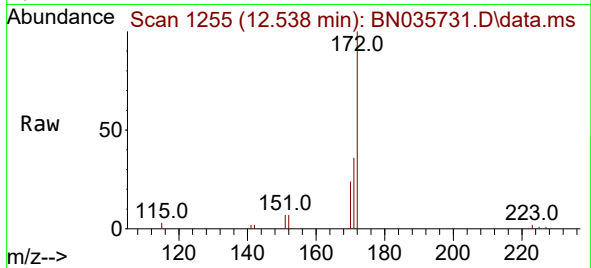




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.538 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

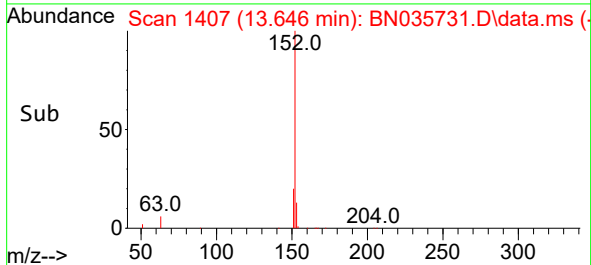
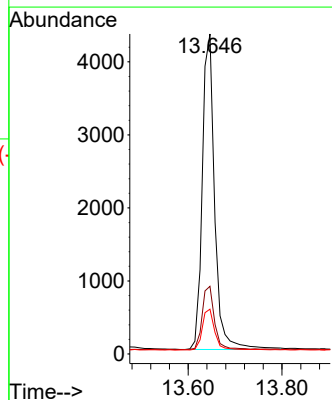
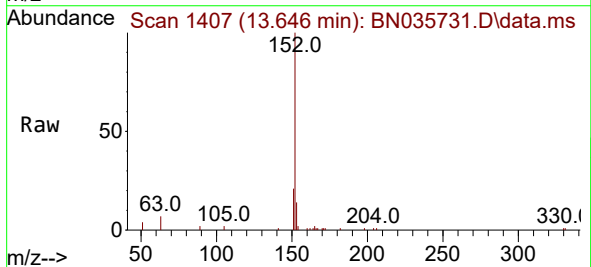
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

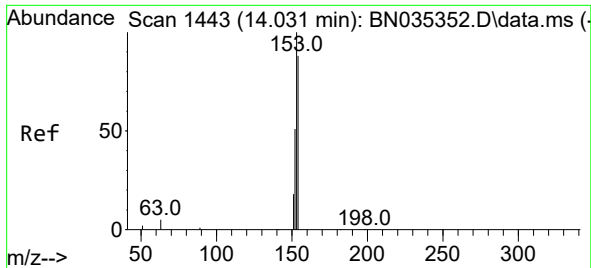
Tgt Ion:172 Resp: 7347
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.5 19.8 29.8



#16
Acenaphthylene
Concen: 0.354 ng
RT: 13.646 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:152 Resp: 7931
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.2
153 13.0 10.4 15.6

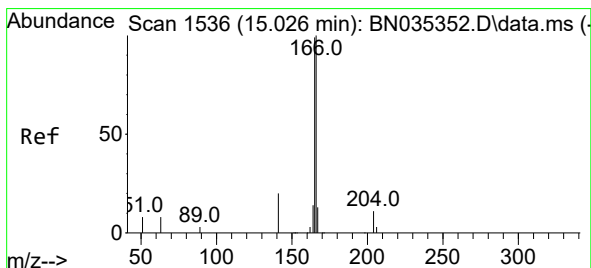
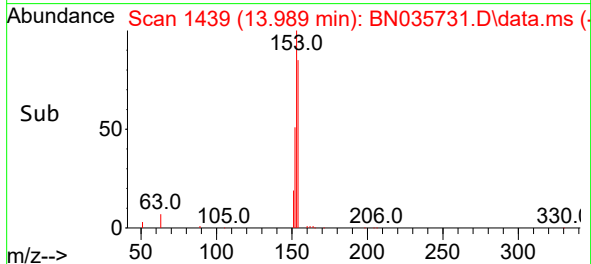
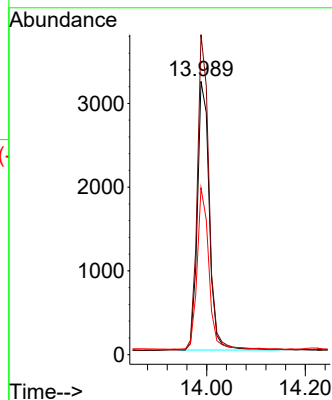
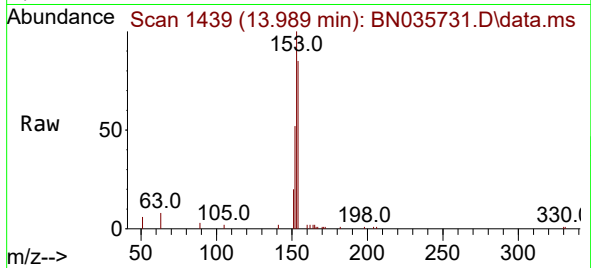




#17
Acenaphthene
Concen: 0.359 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

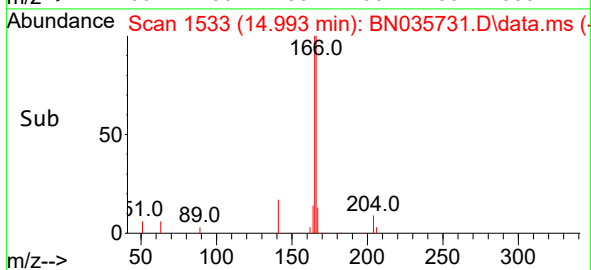
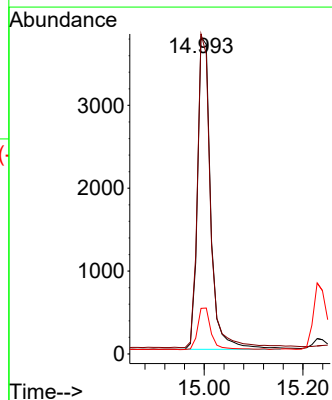
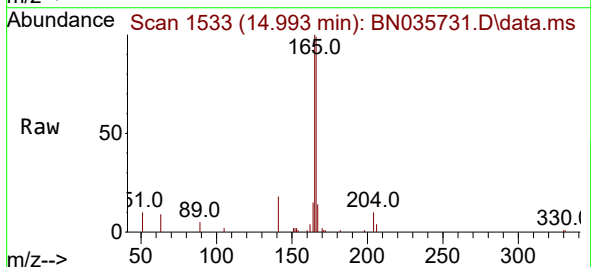
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

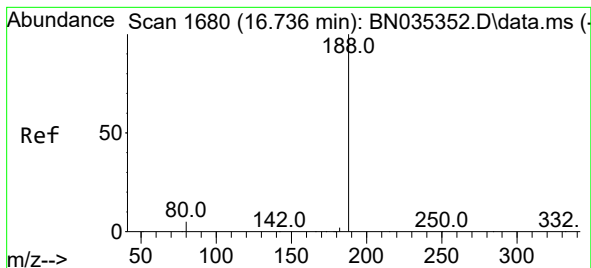
Tgt Ion:154 Resp: 5347
Ion Ratio Lower Upper
154 100
153 116.2 92.6 139.0
152 59.2 49.0 73.6



#18
Fluorene
Concen: 0.329 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:166 Resp: 7004
Ion Ratio Lower Upper
166 100
165 98.3 79.7 119.5
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

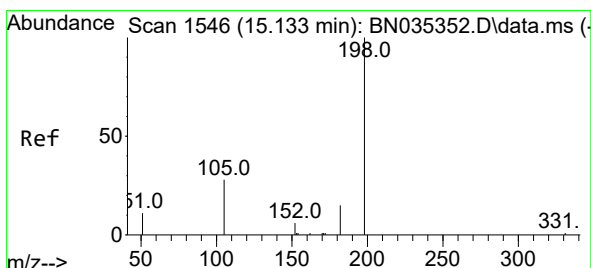
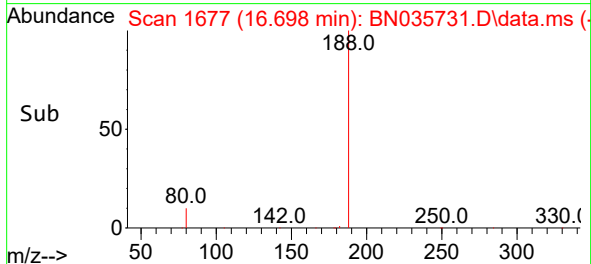
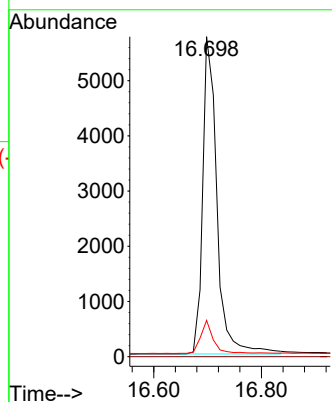
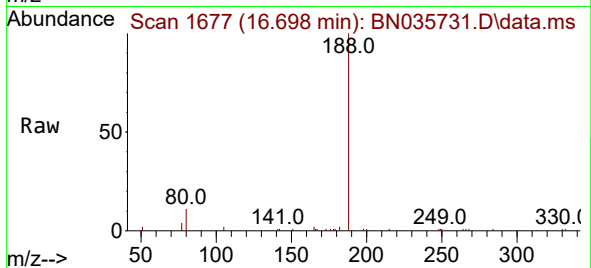
Tgt Ion:188 Resp: 10575

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.080 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

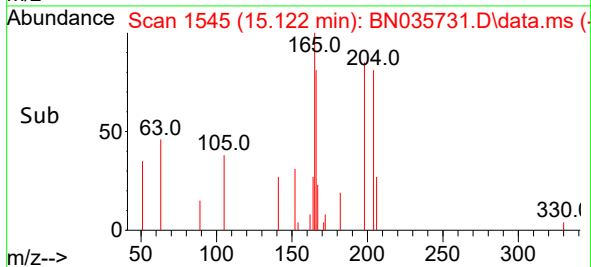
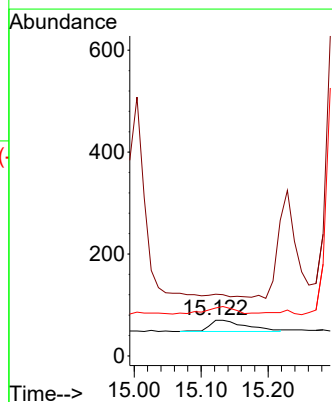
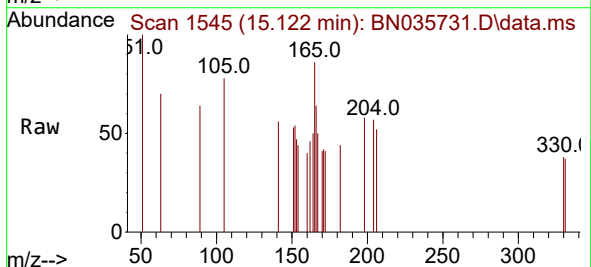
Tgt Ion:198 Resp: 83

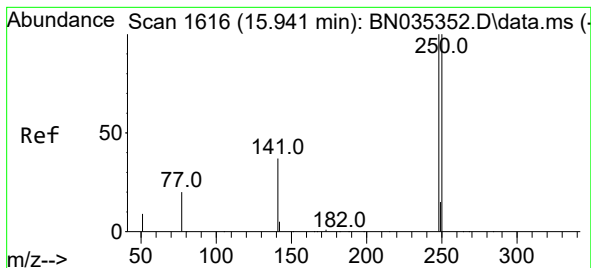
Ion Ratio Lower Upper

198 100

51 172.9 46.5 69.7#

105 134.3 45.3 67.9#

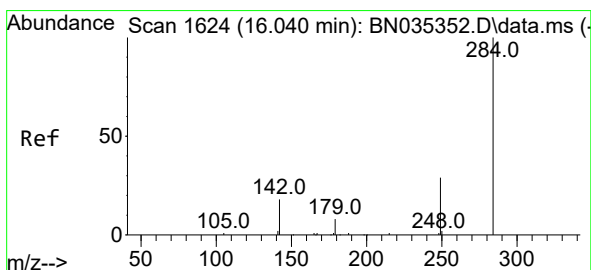
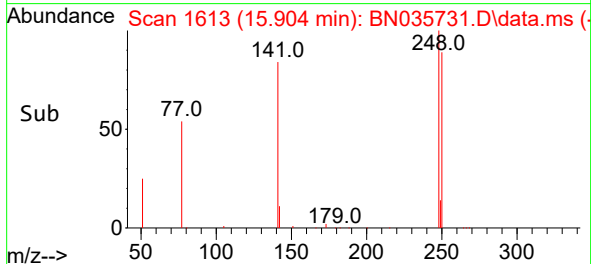
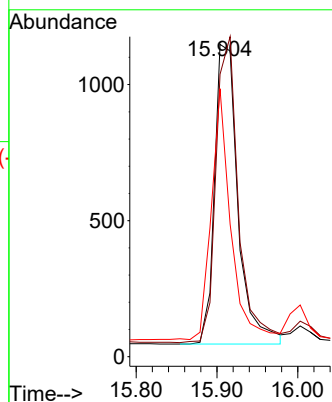
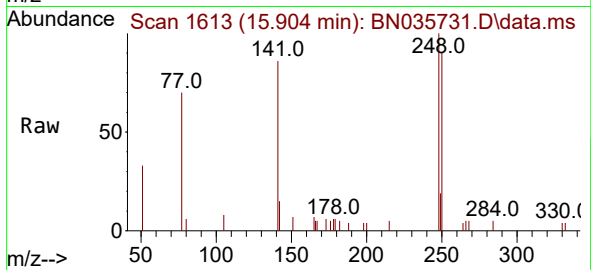




#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

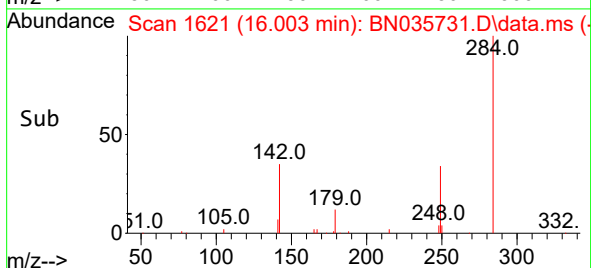
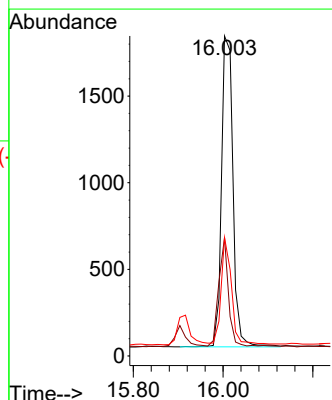
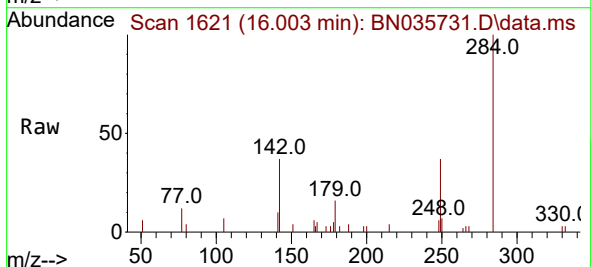
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

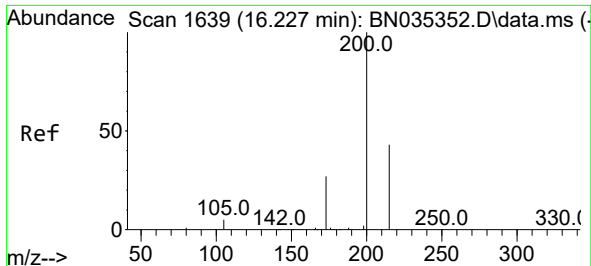
Tgt Ion:248 Resp: 2216
Ion Ratio Lower Upper
248 100
250 90.4 80.6 120.8
141 85.8 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.438 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:284 Resp: 3183
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 30.4 24.6 36.8

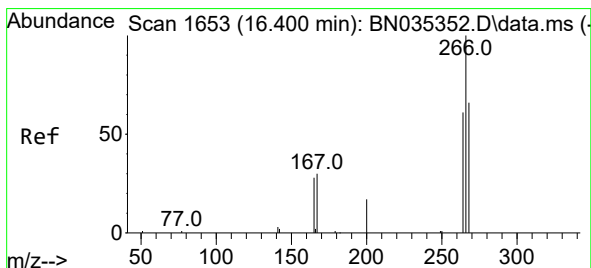
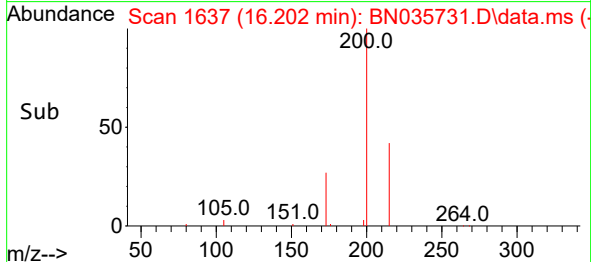
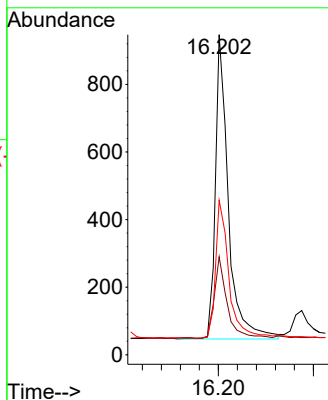
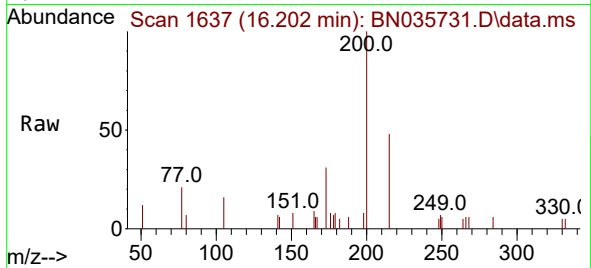




#23
 Atrazine
 Concen: 0.385 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035731.D
 Acq: 20 Dec 2024 08:04

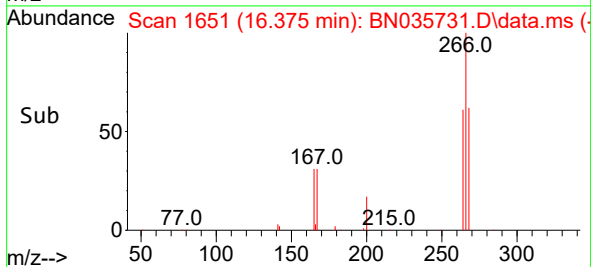
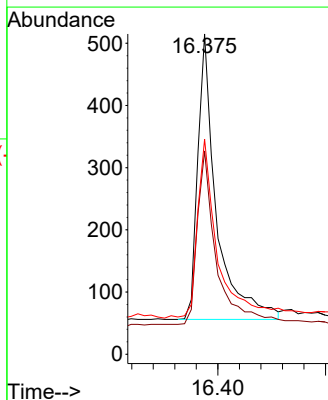
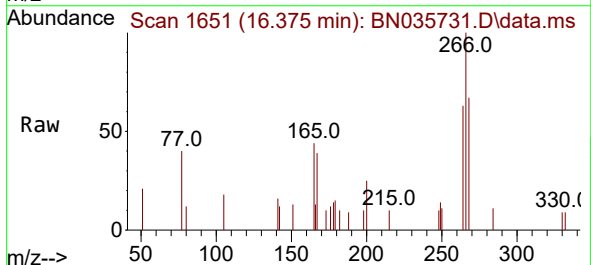
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

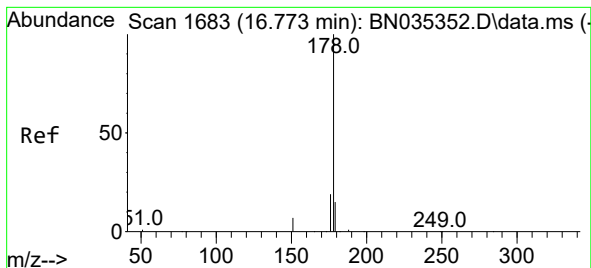
Tgt Ion:	200	Resp:	1696
Ion Ratio	Lower	Upper	
200	100		
173	30.6	24.1	36.1
215	48.3	36.9	55.3



#24
 Pentachlorophenol
 Concen: 0.350 ng
 RT: 16.375 min Scan# 1651
 Delta R.T. -0.000 min
 Lab File: BN035731.D
 Acq: 20 Dec 2024 08:04

Tgt Ion:	266	Resp:	1107
Ion Ratio	Lower	Upper	
266	100		
264	62.6	42.3	63.5
268	68.5	43.3	64.9

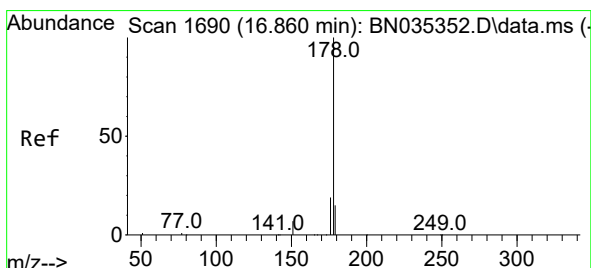
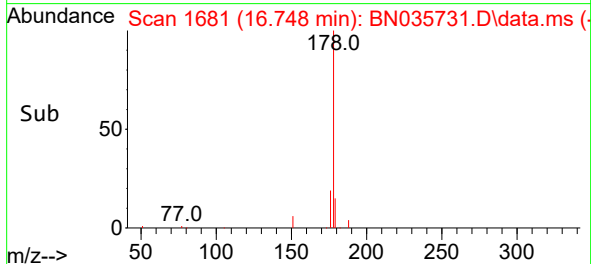
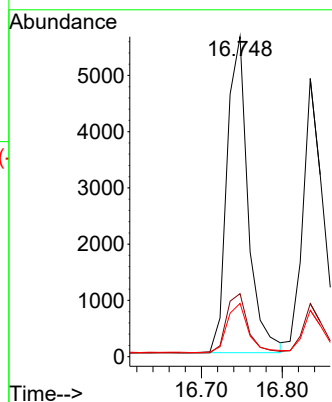
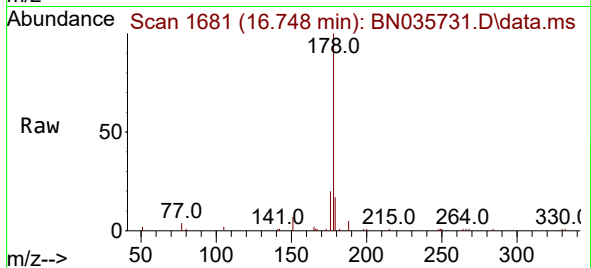




#25
Phenanthrene
Concen: 0.351 ng
RT: 16.748 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

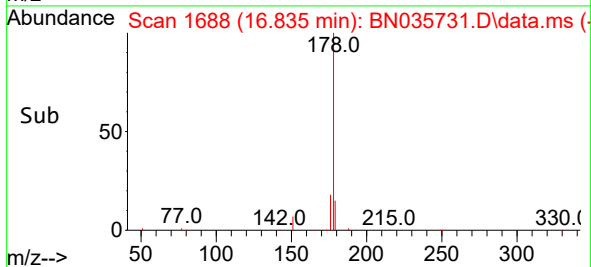
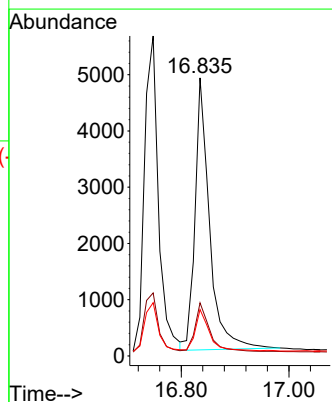
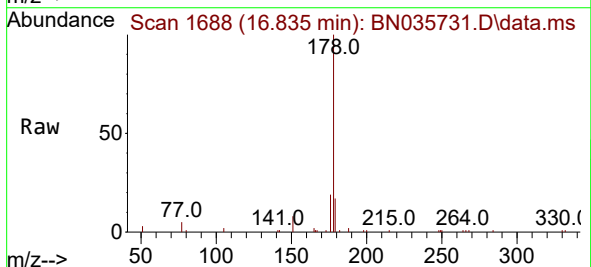
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

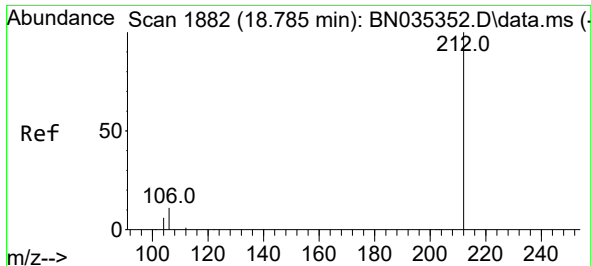
Tgt Ion:178 Resp: 10192
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.7 12.3 18.5



#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:178 Resp: 9082
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.6
179 15.6 12.6 18.8

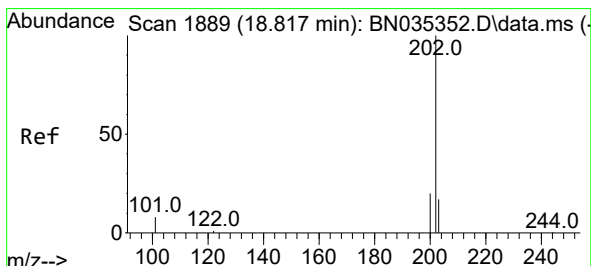
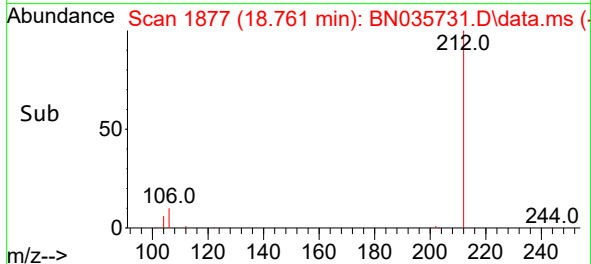
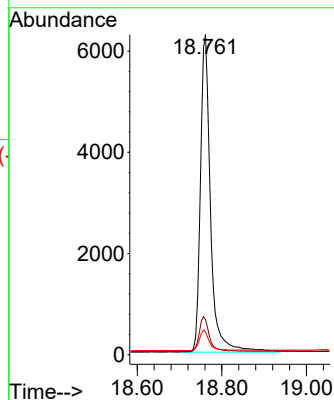
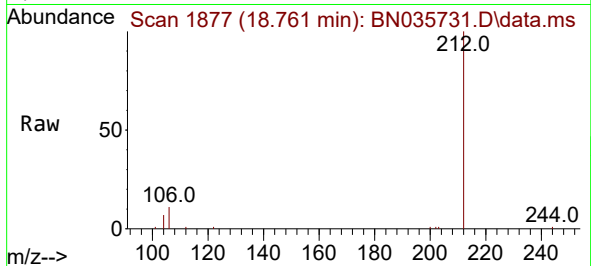




#27
Fluoranthene-d10
Concen: 0.347 ng
RT: 18.761 min Scan# 1877
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

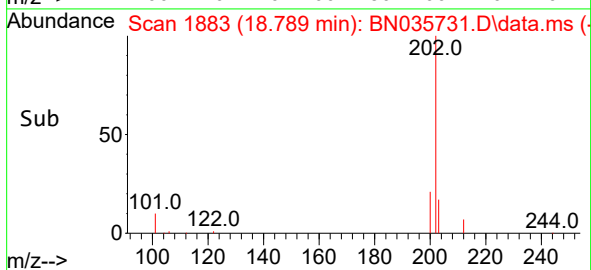
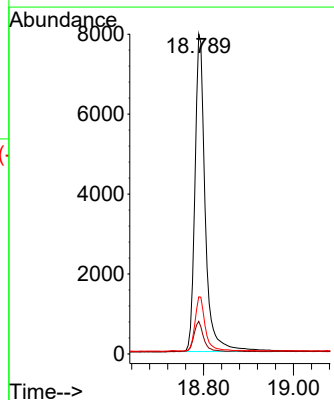
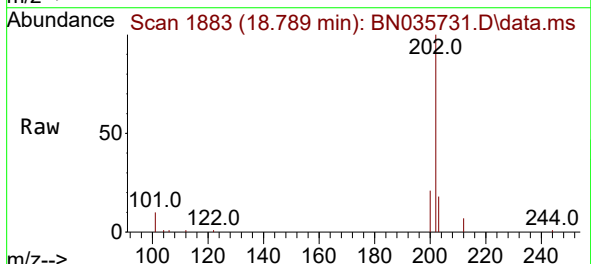
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

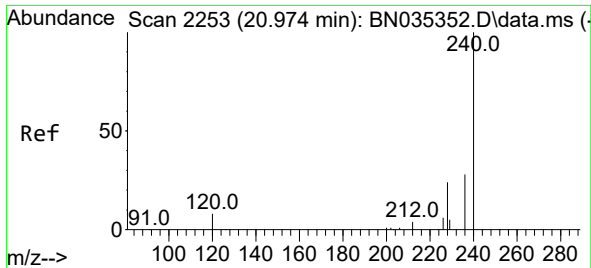
Tgt Ion:212 Resp: 10416
Ion Ratio Lower Upper
212 100
106 10.8 9.2 13.8
104 6.3 5.3 7.9



#28
Fluoranthene
Concen: 0.324 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 12678
Ion Ratio Lower Upper
202 100
101 9.4 7.4 11.0
203 16.7 13.7 20.5

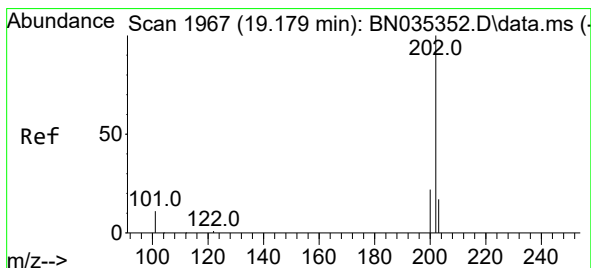
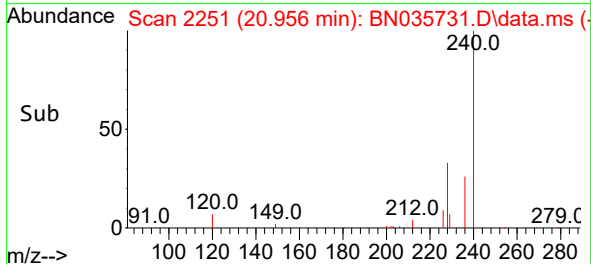
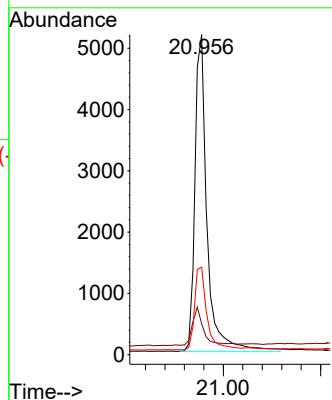
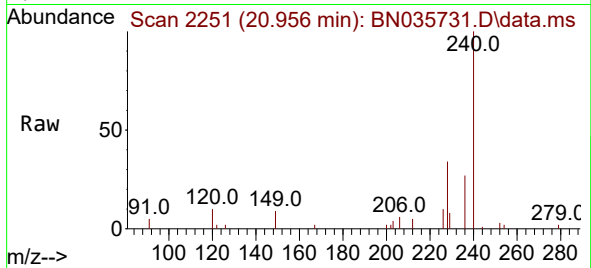




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

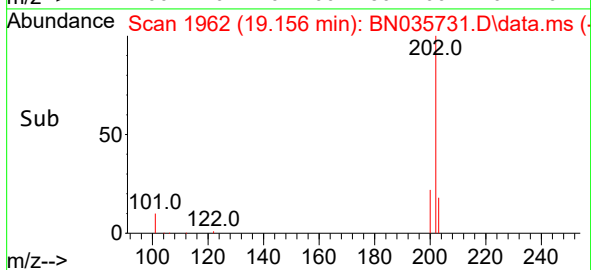
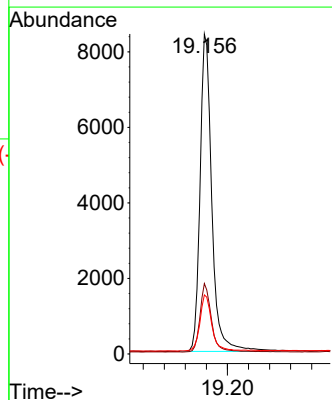
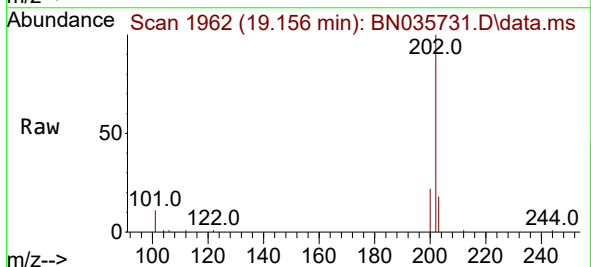
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

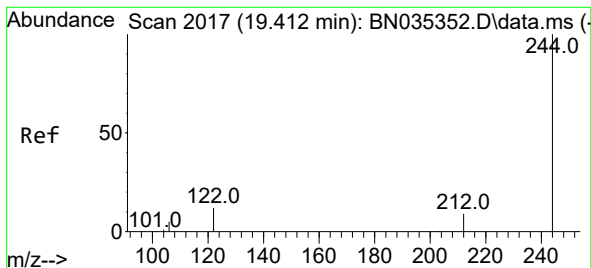
Tgt Ion:240 Resp: 8878
Ion Ratio Lower Upper
240 100
120 9.6 7.9 11.9
236 27.4 22.9 34.3



#30
Pyrene
Concen: 0.399 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 13069
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.426 ng

RT: 19.388 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

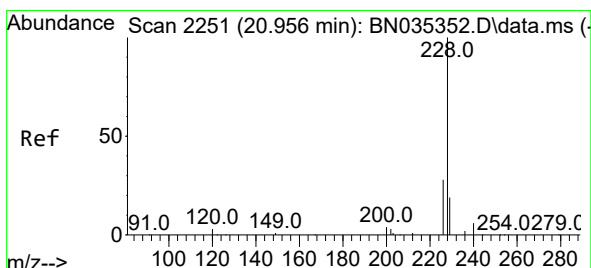
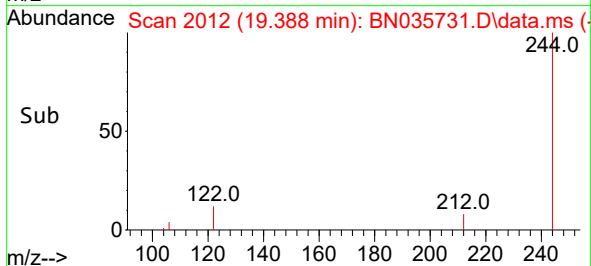
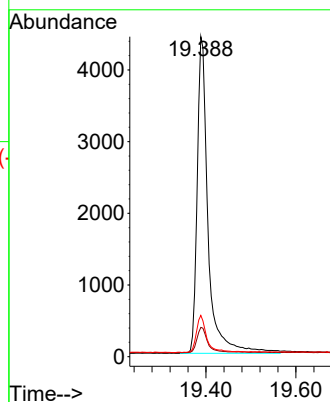
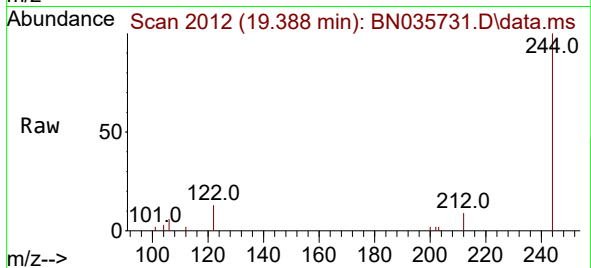
Tgt Ion:244 Resp: 7453

Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.9 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.339 ng

RT: 20.938 min Scan# 2249

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

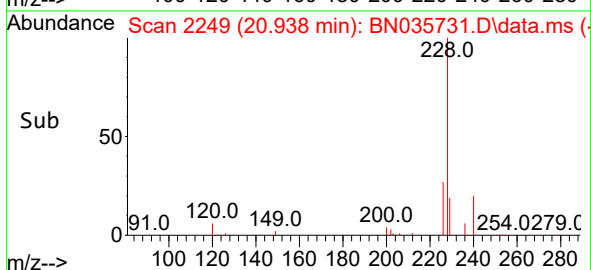
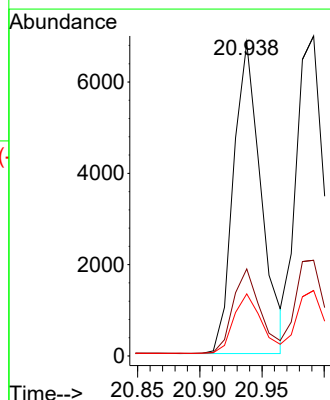
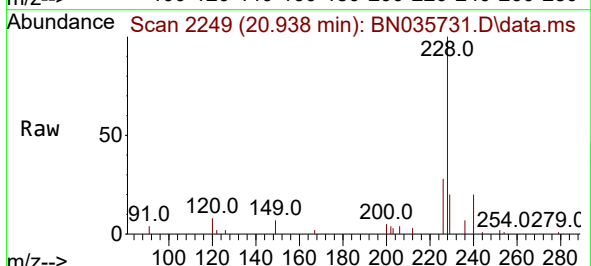
Tgt Ion:228 Resp: 10542

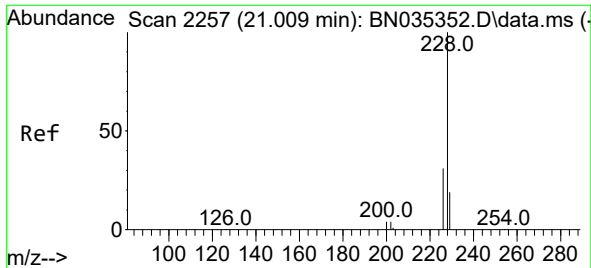
Ion Ratio Lower Upper

228 100

226 27.8 22.5 33.7

229 19.8 15.8 23.8

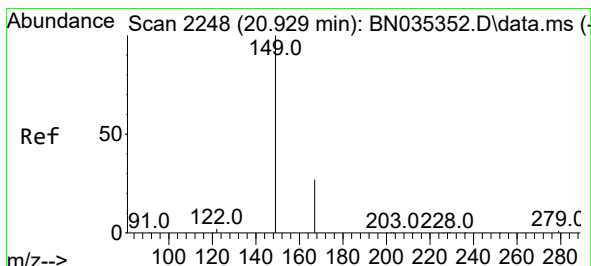
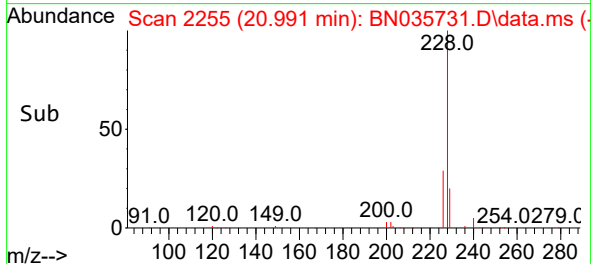
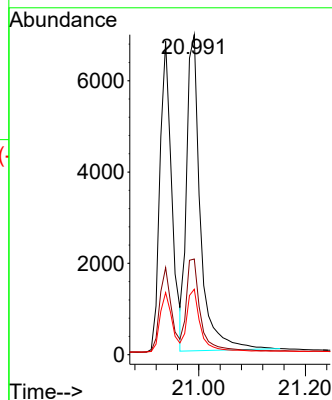
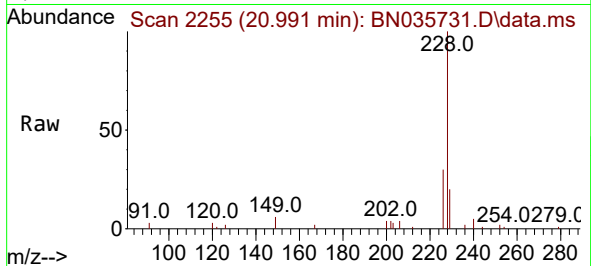




#33
Chrysene
Concen: 0.389 ng
RT: 20.991 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

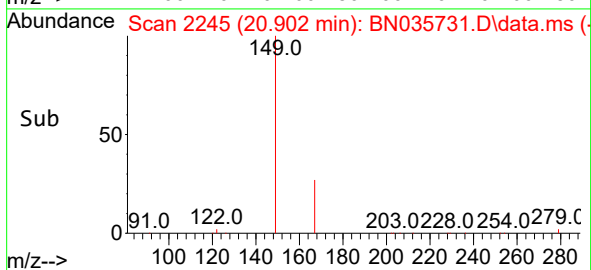
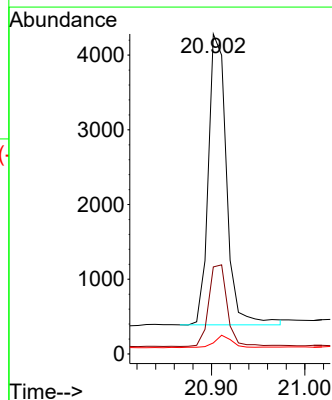
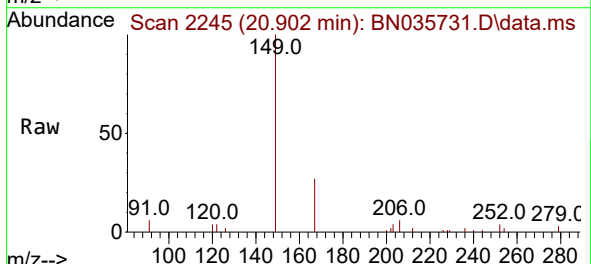
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

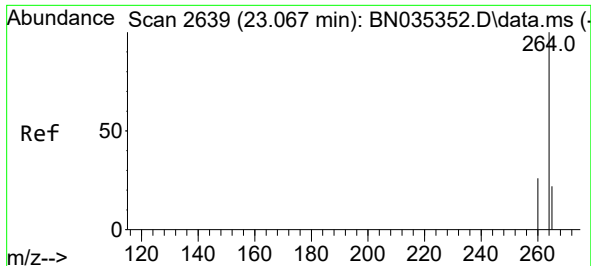
Tgt Ion:228 Resp: 12448
Ion Ratio Lower Upper
228 100
226 29.9 24.6 37.0
229 20.4 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.430 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:149 Resp: 5271
Ion Ratio Lower Upper
149 100
167 28.6 22.2 33.4
279 3.9 2.7 4.1

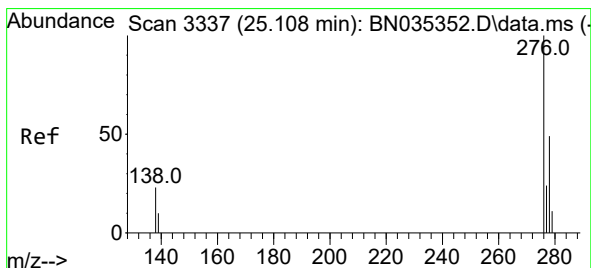
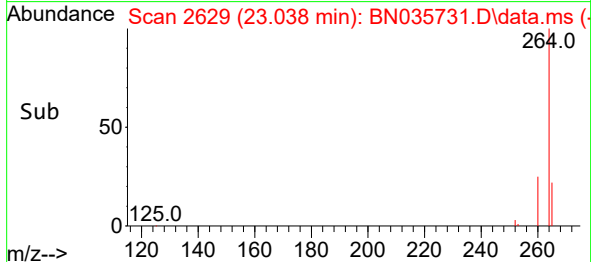
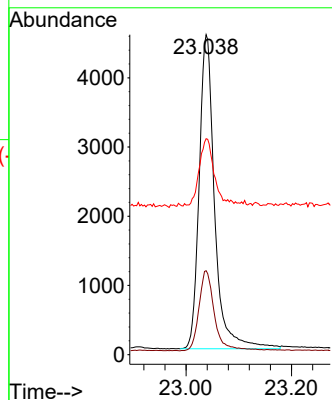
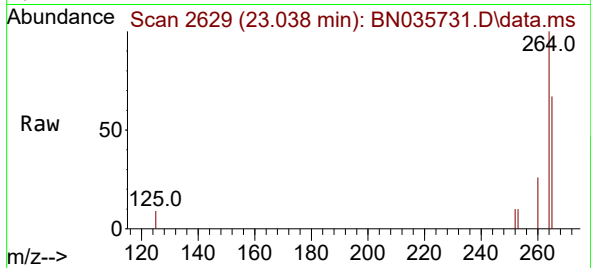




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

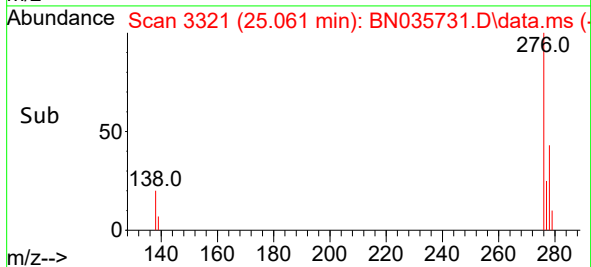
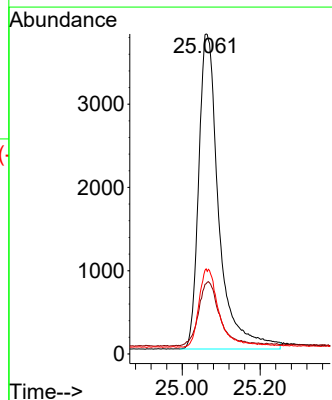
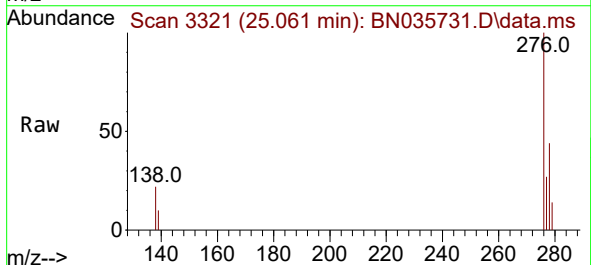
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

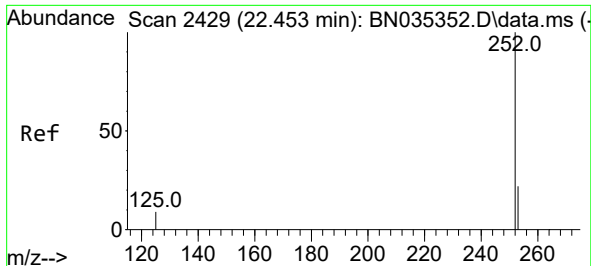
Tgt Ion:264 Resp: 9229
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 67.5 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:276 Resp: 13578
Ion Ratio Lower Upper
276 100
138 21.2 19.4 29.0
277 24.0 19.8 29.6

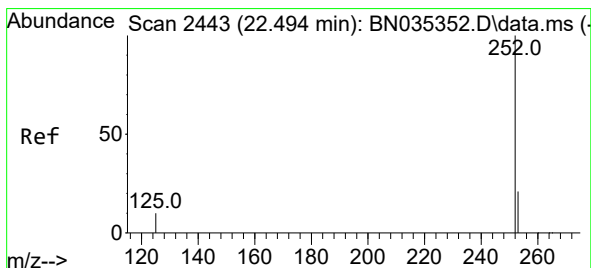
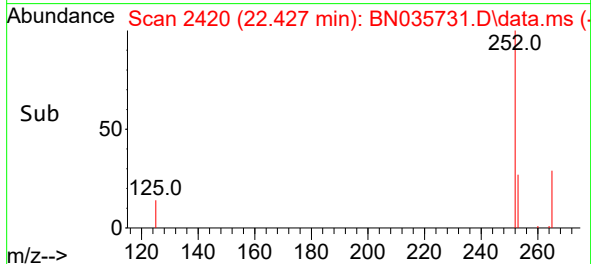
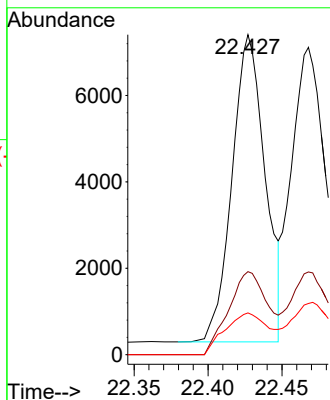
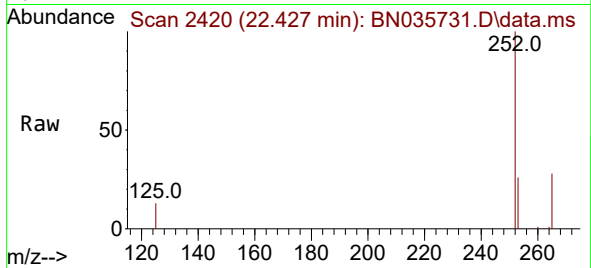




#37
Benzo(b)fluoranthene
Concen: 0.438 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

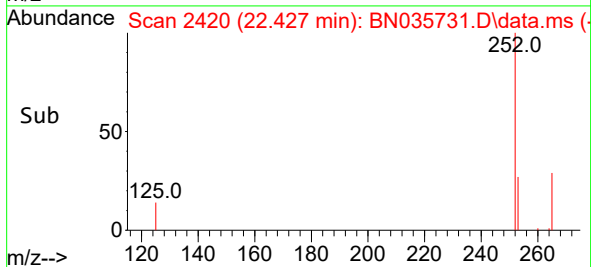
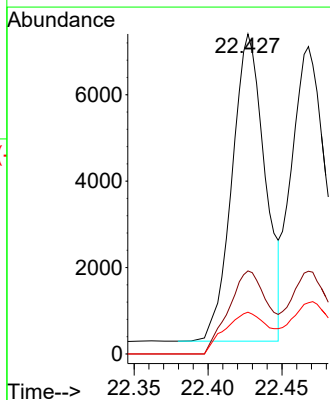
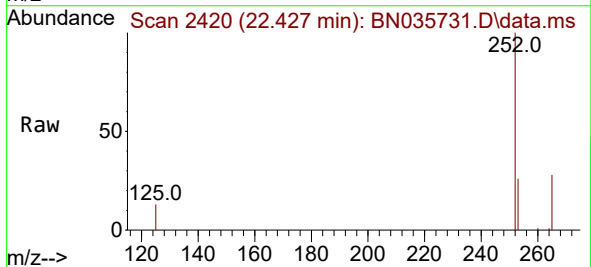
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

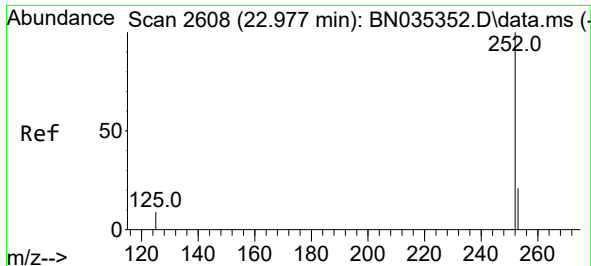
Tgt Ion:252 Resp: 14777
Ion Ratio Lower Upper
252 100
253 25.9 19.6 29.4
125 13.1 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.445 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Tgt Ion:252 Resp: 14777
Ion Ratio Lower Upper
252 100
253 25.9 19.5 29.3
125 13.1 10.2 15.4

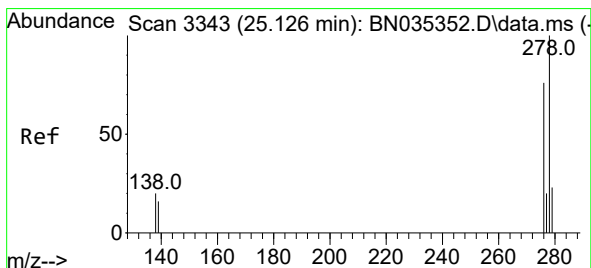
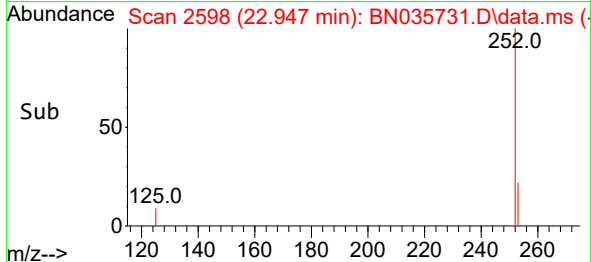
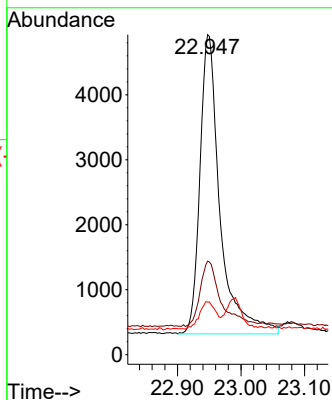
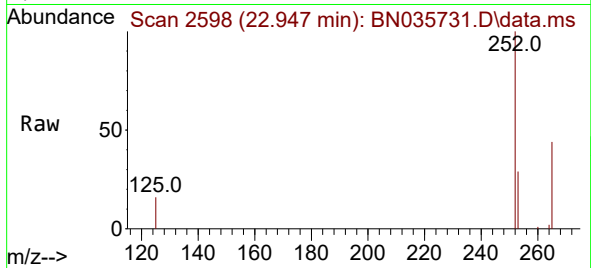




#39
Benzo(a)pyrene
Concen: 0.365 ng
RT: 22.947 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

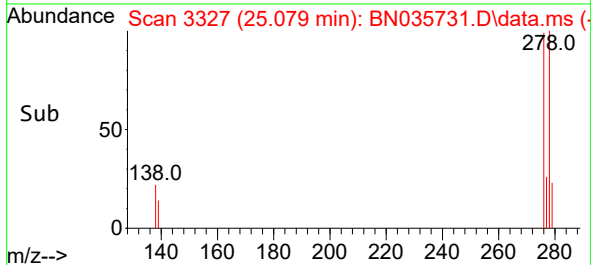
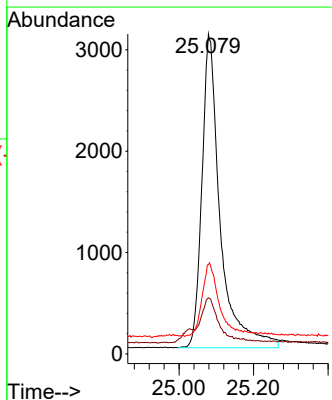
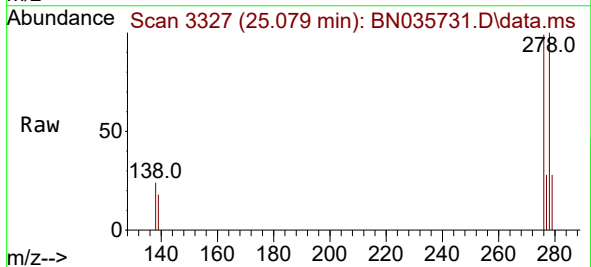
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

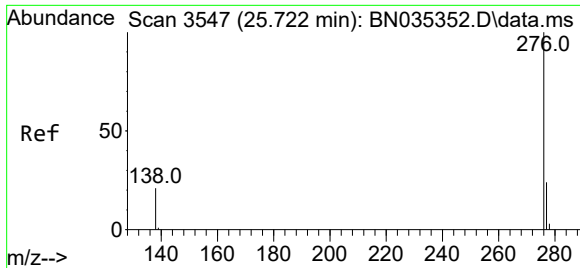
Tgt Ion:252 Resp: 10146
Ion Ratio Lower Upper
252 100
253 29.2 20.2 30.4
125 16.5 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

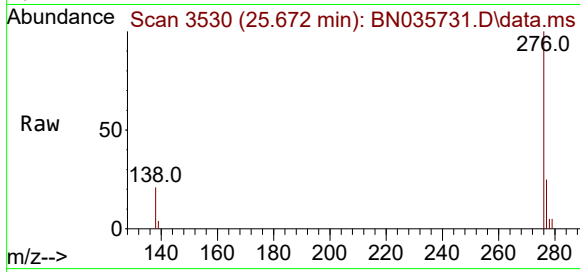
Tgt Ion:278 Resp: 10523
Ion Ratio Lower Upper
278 100
139 17.5 14.2 21.4
279 27.9 20.5 30.7



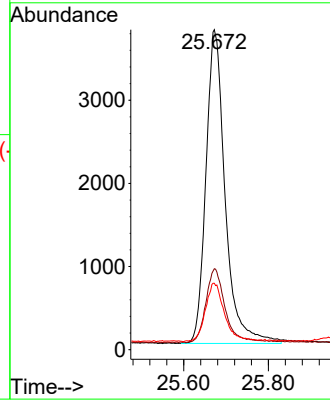
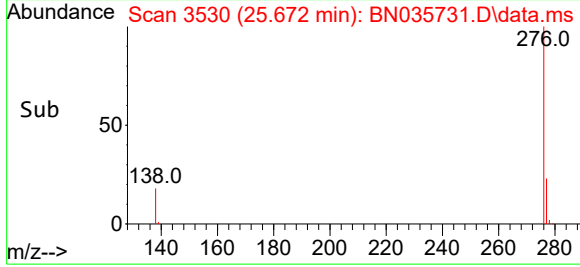


#41
Benzo(g,h,i)perylene
Concen: 0.400 ng
RT: 25.672 min Scan# 31
Delta R.T. -0.006 min
Lab File: BN035731.D
Acq: 20 Dec 2024 08:04

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:	276	Resp:	11906
Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	20.7	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035735.D
 Acq On : 20 Dec 2024 11:05
 Operator : RC/JU
 Sample : P5280-04MS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-11-20241212MS

Quant Time: Dec 20 11:38:22 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

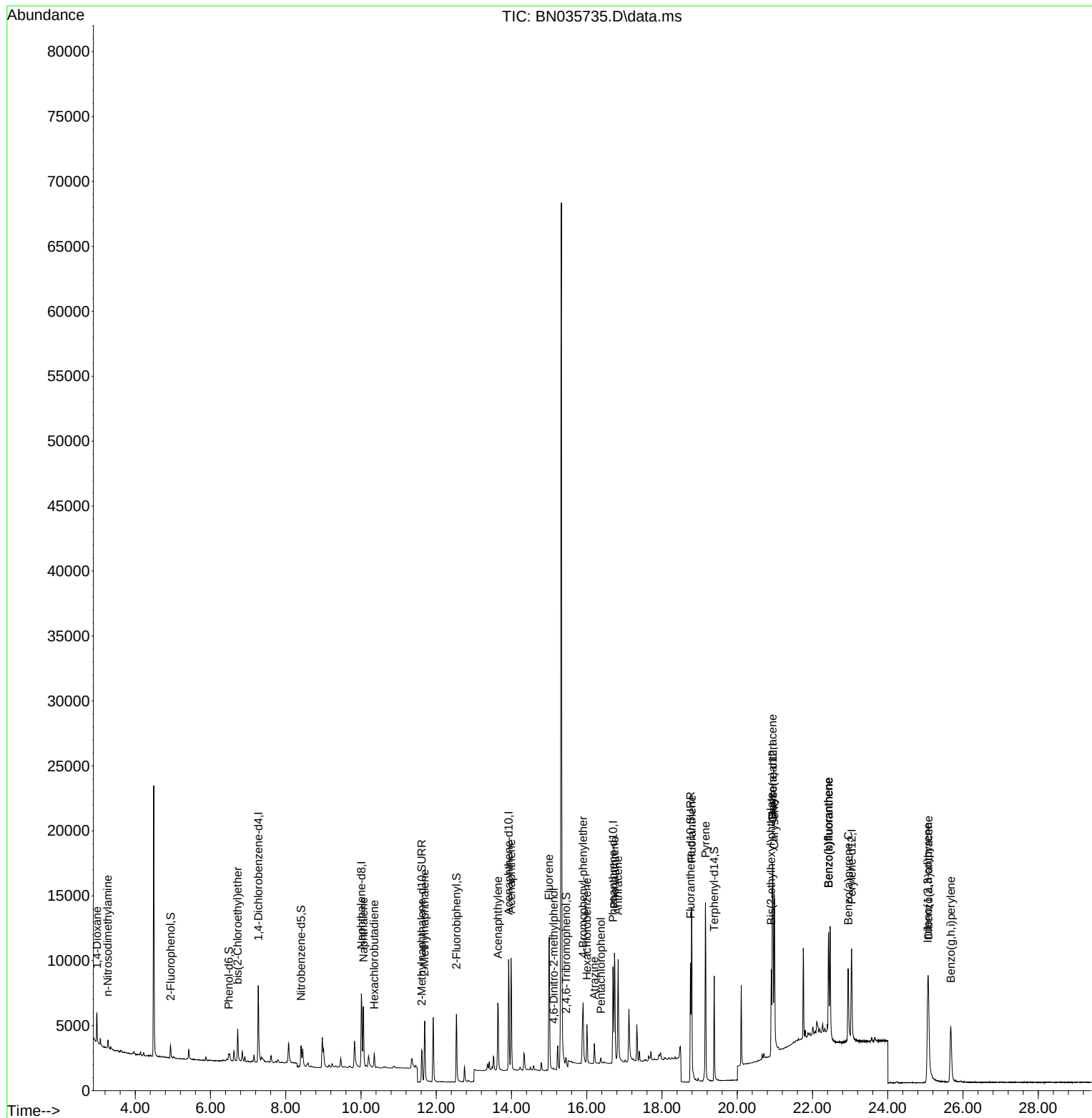
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	3051	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8358	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5197	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10502	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9278	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9467	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	857	0.112	ng	0.00
5) Phenol-d6	6.484	99	610	0.066	ng	0.00
8) Nitrobenzene-d5	8.408	82	2016	0.395	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4131	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	679	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	5479	0.279	ng	0.00
27) Fluoranthene-d10	18.757	212	11313	0.380	ng	0.00
31) Terphenyl-d14	19.388	244	8932	0.488	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	1540	0.528	ng	# 84
3) n-Nitrosodimethylamine	3.270	42	330	0.136	ng	# 78
6) bis(2-Chloroethyl)ether	6.723	93	2206	0.286	ng	98
9) Naphthalene	10.062	128	6003	0.272	ng	99
10) Hexachlorobutadiene	10.351	225	846	0.166	ng	# 98
12) 2-Methylnaphthalene	11.691	142	3950	0.250	ng	99
16) Acenaphthylene	13.636	152	6604	0.303	ng	100
17) Acenaphthene	13.988	154	4230	0.292	ng	98
18) Fluorene	14.993	166	5719	0.276	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	103	0.100	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2167	0.353	ng	# 84
22) Hexachlorobenzene	16.003	284	2445	0.339	ng	96
23) Atrazine	16.202	200	1259	0.288	ng	94
24) Pentachlorophenol	16.375	266	273	0.087	ng	# 79
25) Phenanthrene	16.735	178	10260	0.356	ng	100
26) Anthracene	16.835	178	8925	0.342	ng	99
28) Fluoranthene	18.789	202	12930	0.332	ng	99
30) Pyrene	19.156	202	13495	0.394	ng	99
32) Benzo(a)anthracene	20.938	228	11302	0.348	ng	99
33) Chrysene	20.982	228	12637	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6113	0.477	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.061	276	12412	0.335	ng	97
37) Benzo(b)fluoranthene	22.427	252	18573	0.536	ng	95
38) Benzo(k)fluoranthene	22.427	252	18573	0.545	ng	96
39) Benzo(a)pyrene	22.950	252	9310	0.326	ng	# 90
40) Dibenzo(a,h)anthracene	25.082	278	9663	0.331	ng	95
41) Benzo(g,h,i)perylene	25.675	276	9301	0.305	ng	99

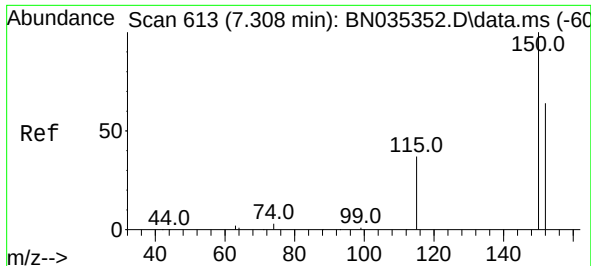
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035735.D
Acq On : 20 Dec 2024 11:05
Operator : RC/JU
Sample : P5280-04MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

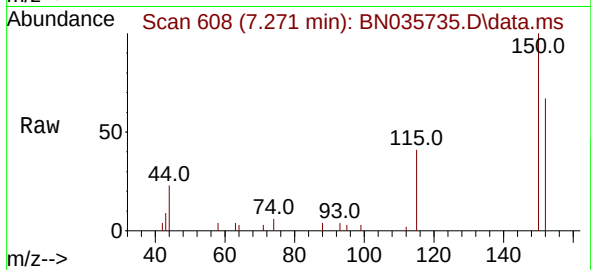
Quant Time: Dec 20 11:38:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



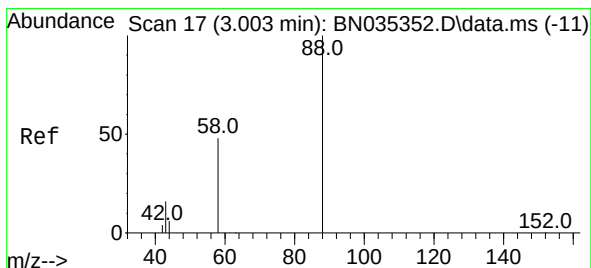
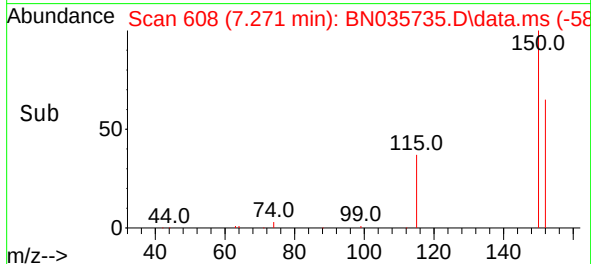
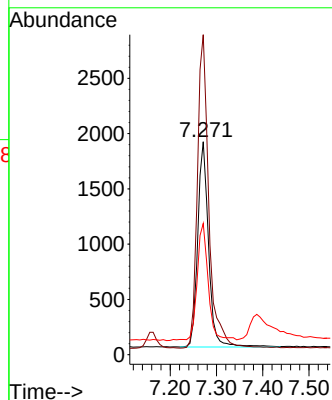


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 613
Delta R.T. -0.001 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

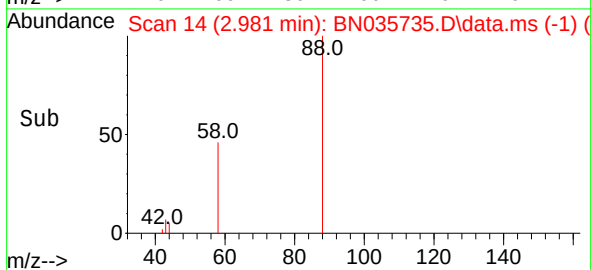
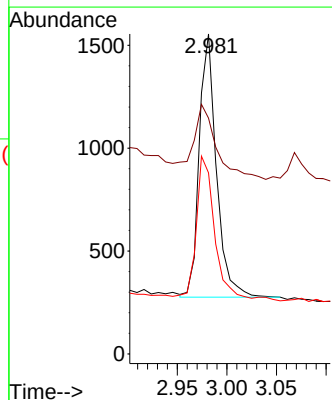
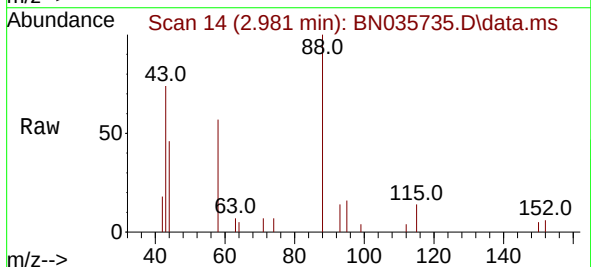


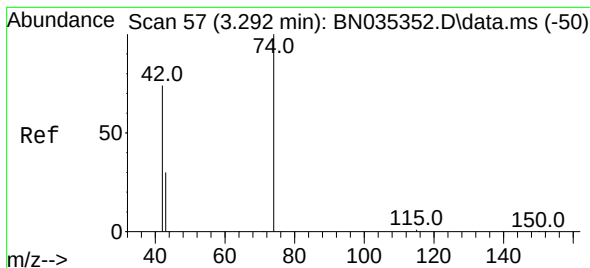
Tgt Ion:152 Resp: 3051
Ion Ratio Lower Upper
152 100
150 150.2 124.0 186.0
115 61.6 49.6 74.4



#2
1,4-Dioxane
Concen: 0.528 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion: 88 Resp: 1540
Ion Ratio Lower Upper
88 100
43 40.1 17.2 25.8#
58 60.8 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.136 ng

RT: 3.270 min Scan# 54

Delta R.T. -0.007 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

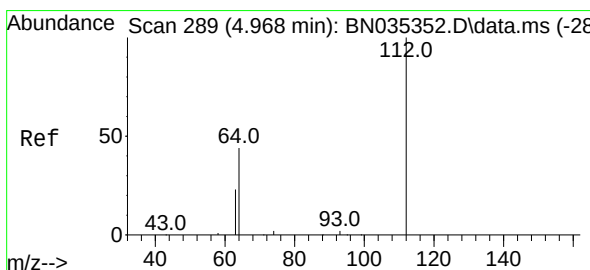
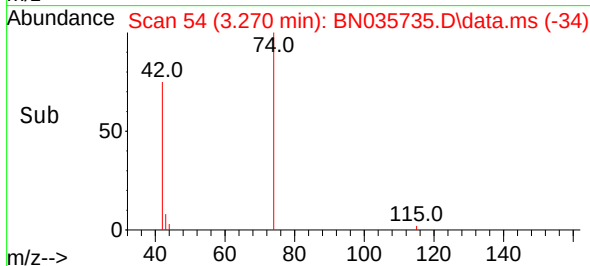
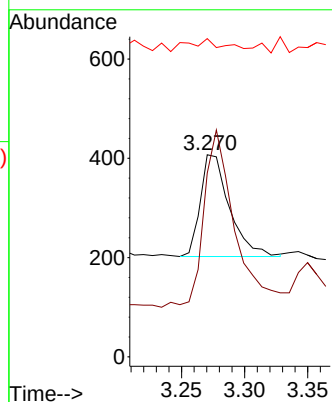
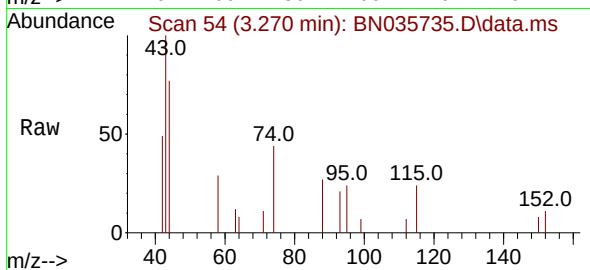
Tgt Ion: 42 Resp: 330

Ion Ratio Lower Upper

42 100

74 184.5 124.9 187.3

44 0.0 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.112 ng

RT: 4.939 min Scan# 285

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

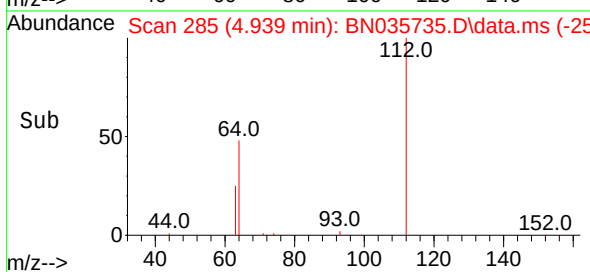
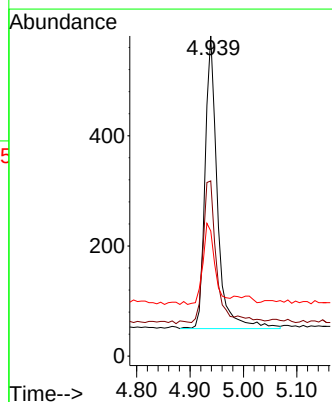
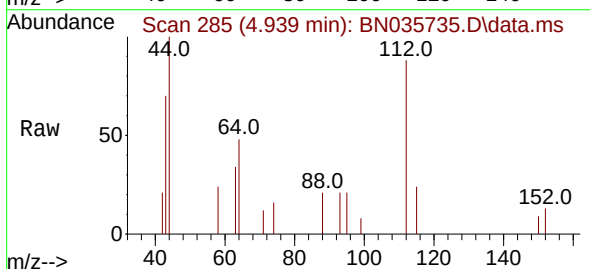
Tgt Ion: 112 Resp: 857

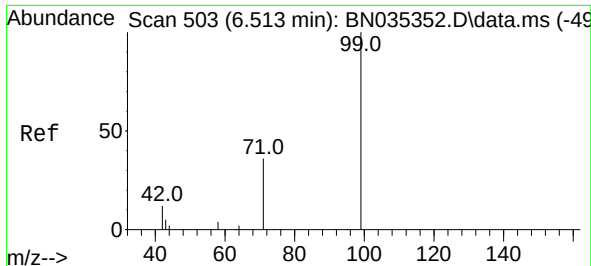
Ion Ratio Lower Upper

112 100

64 52.4 39.8 59.8

63 26.8 21.0 31.6





#5

Phenol-d6

Concen: 0.066 ng

RT: 6.484 min Scan# 499

Delta R.T. -0.007 min

Lab File: BN035735.D

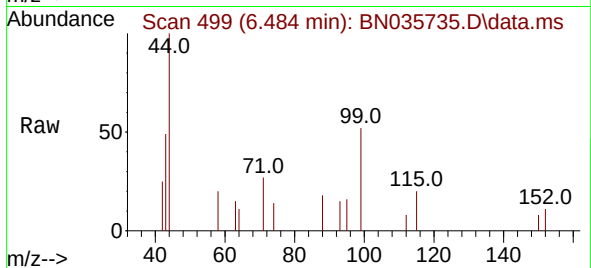
Acq: 20 Dec 2024 11:05

Instrument :

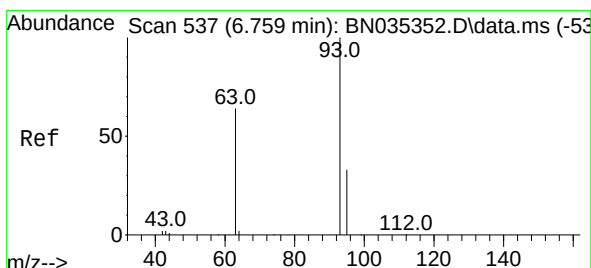
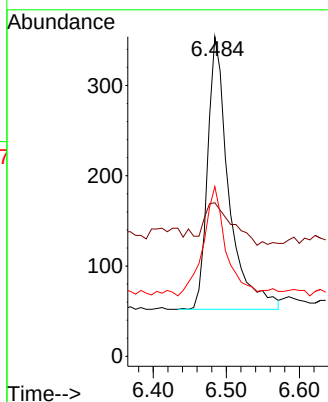
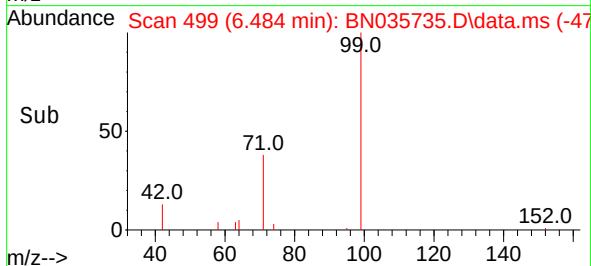
BNA_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:	99	Resp:	610
Ion	Ratio	Lower	Upper
99	100		
42	19.2	11.4	17.2#
71	43.3	29.3	43.9



#6

bis(2-Chloroethyl)ether

Concen: 0.286 ng

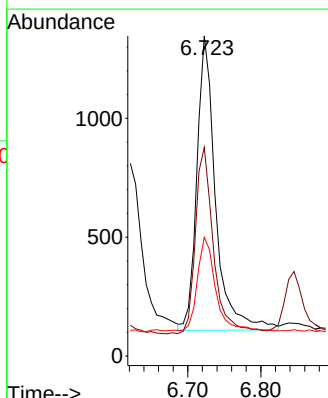
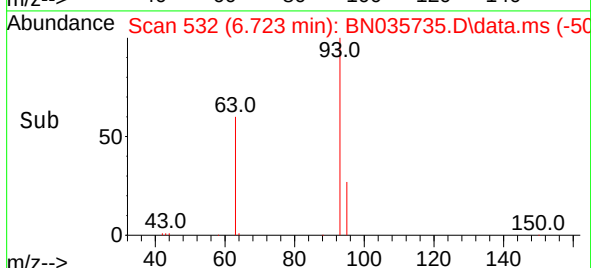
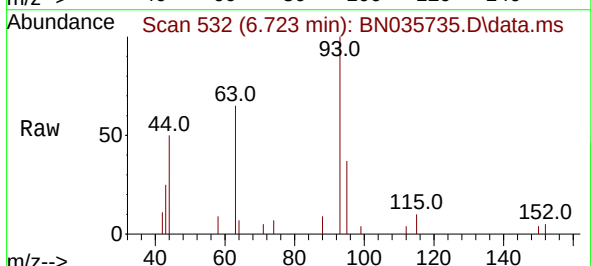
RT: 6.723 min Scan# 532

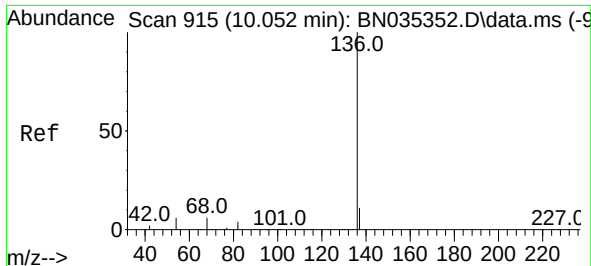
Delta R.T. -0.007 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Tgt Ion:	93	Resp:	2206
Ion	Ratio	Lower	Upper
93	100		
63	61.4	50.4	75.6
95	30.6	25.7	38.5

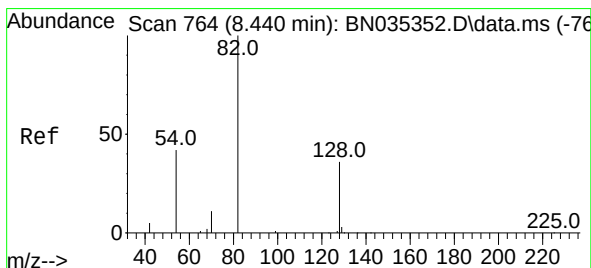
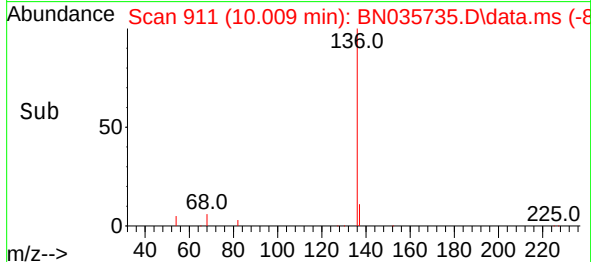
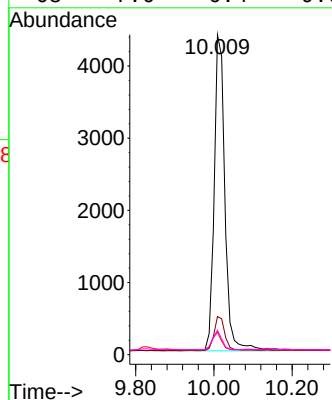
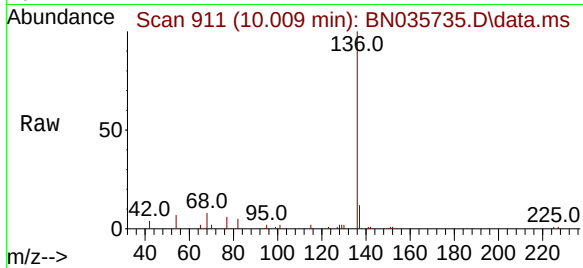




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

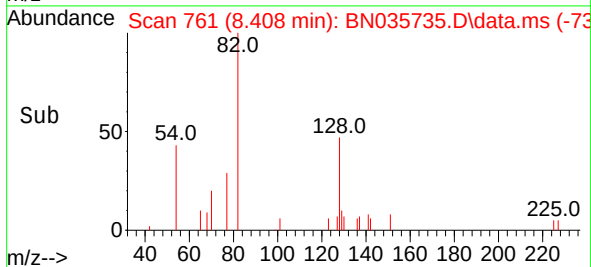
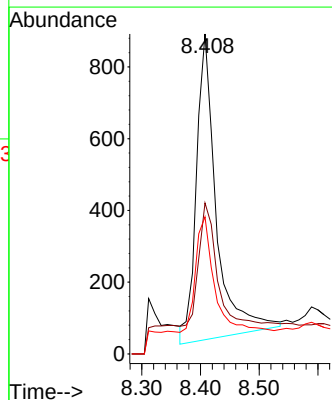
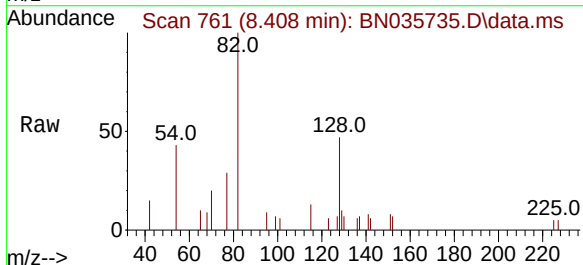
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

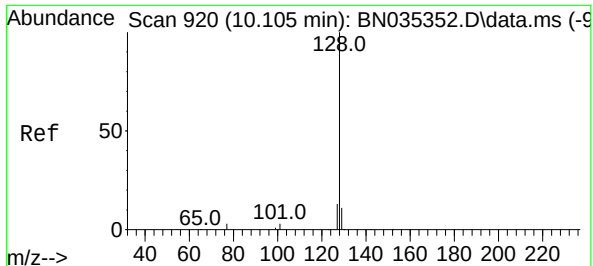
Tgt Ion:	136	Resp:	8358
Ion Ratio	Lower	Upper	
136	100		
137	11.9	10.2	15.2
54	7.0	6.1	9.1
68	7.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:	82	Resp:	2016
Ion Ratio	Lower	Upper	
82	100		
128	47.2	33.4	50.0
54	42.8	36.7	55.1

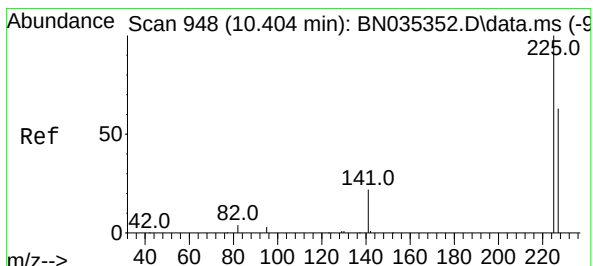
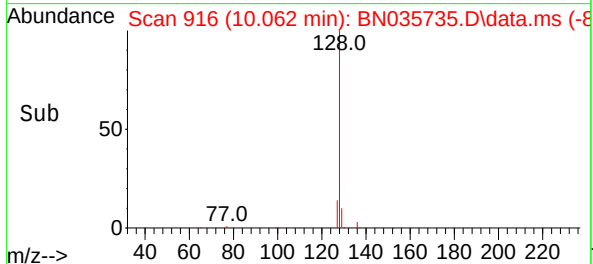
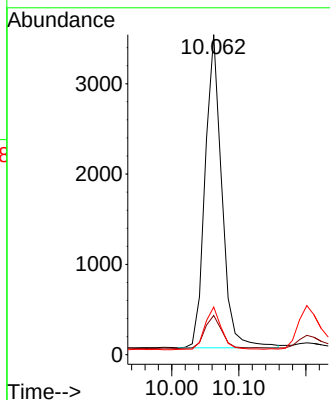
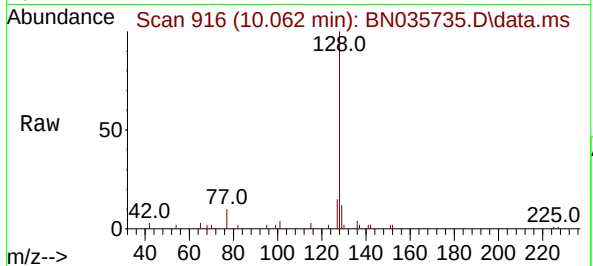




#9
Naphthalene
Concen: 0.272 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

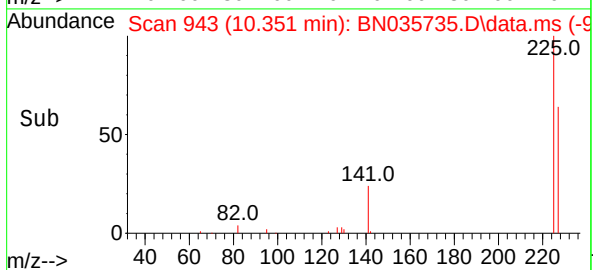
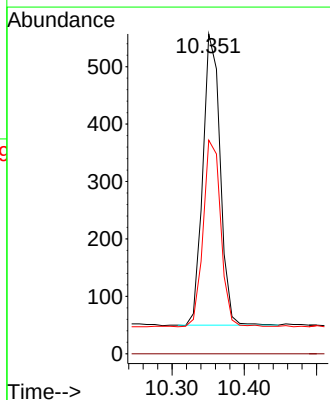
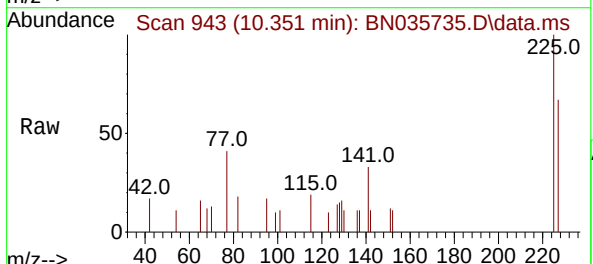
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

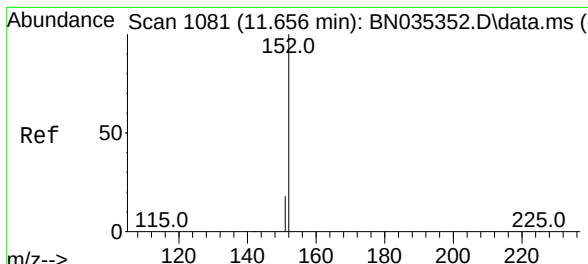
Tgt Ion:128 Resp: 6003
Ion Ratio Lower Upper
128 100
129 12.3 9.8 14.6
127 14.9 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.166 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:225 Resp: 846
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.3 76.9

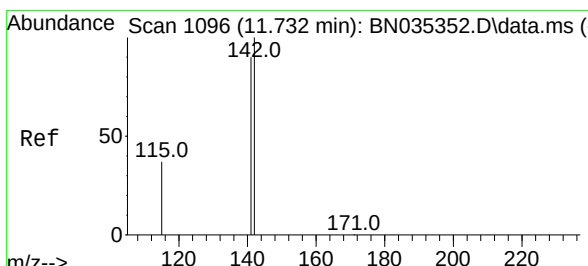
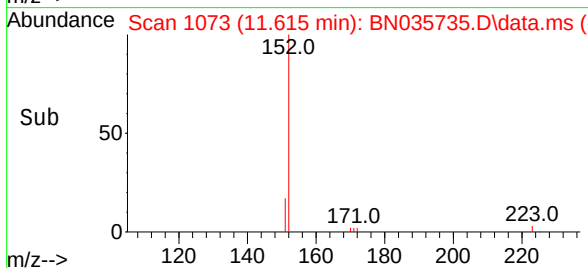
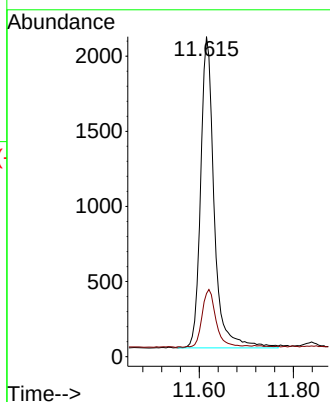
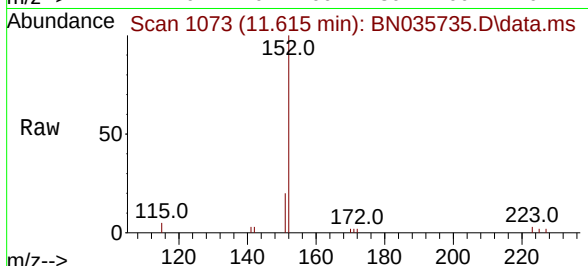




#11
 2-Methylnaphthalene-d10
 Concen: 0.316 ng
 RT: 11.615 min Scan# 1073
 Delta R.T. -0.005 min
 Lab File: BN035735.D
 Acq: 20 Dec 2024 11:05

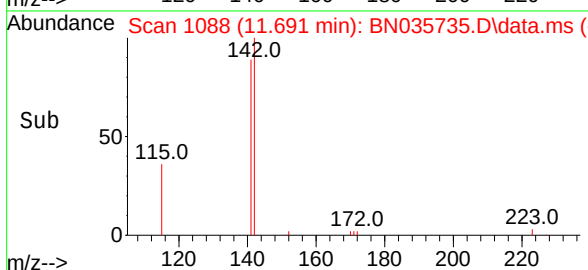
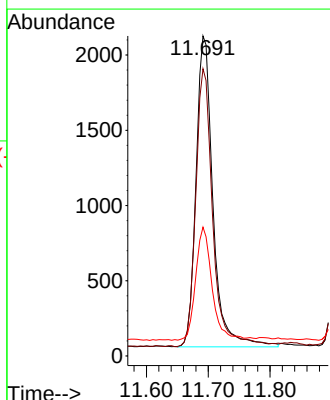
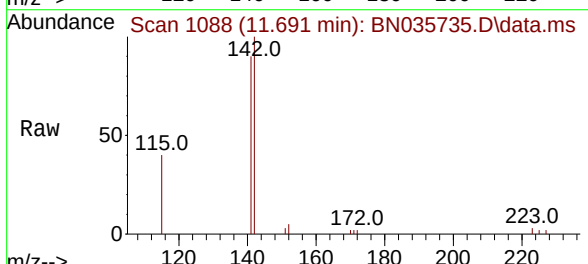
Instrument : BNA_N
 ClientSampleId : BPOW6-11-20241212MS

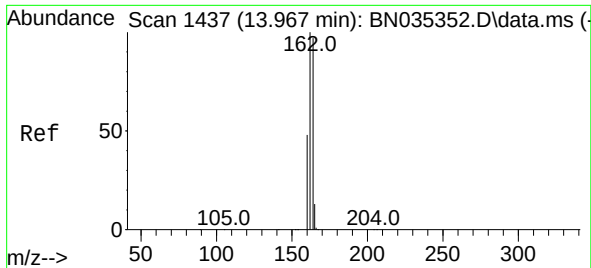
Tgt Ion:152 Resp: 4131
 Ion Ratio Lower Upper
 152 100
 151 19.0 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.250 ng
 RT: 11.691 min Scan# 1088
 Delta R.T. -0.005 min
 Lab File: BN035735.D
 Acq: 20 Dec 2024 11:05

Tgt Ion:142 Resp: 3950
 Ion Ratio Lower Upper
 142 100
 141 89.8 72.2 108.4
 115 40.2 31.4 47.0

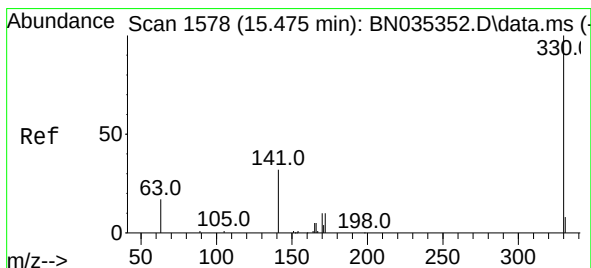
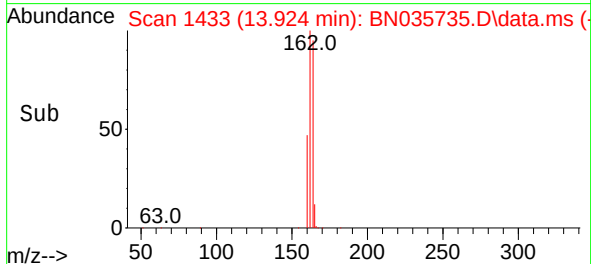
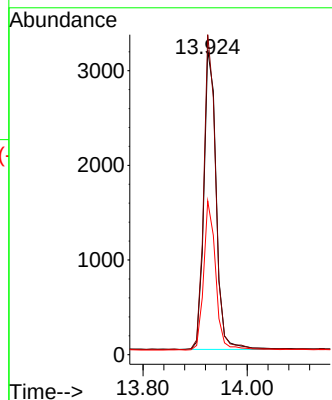
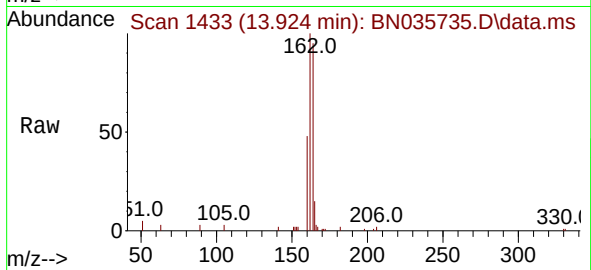




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

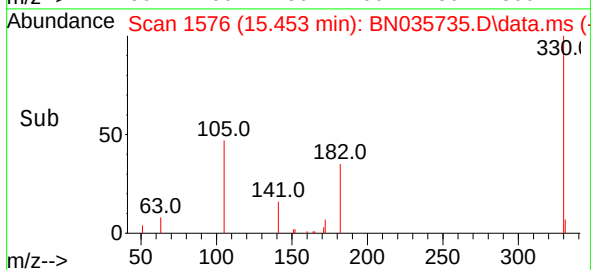
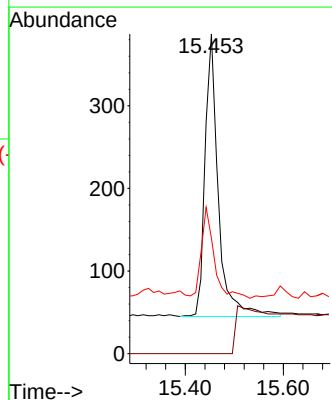
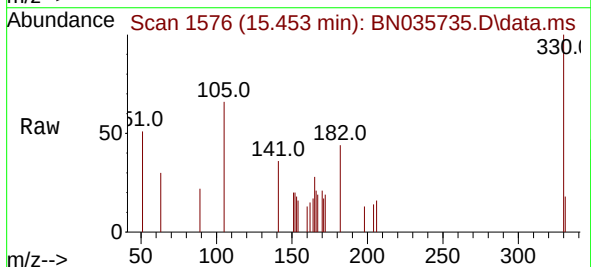
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

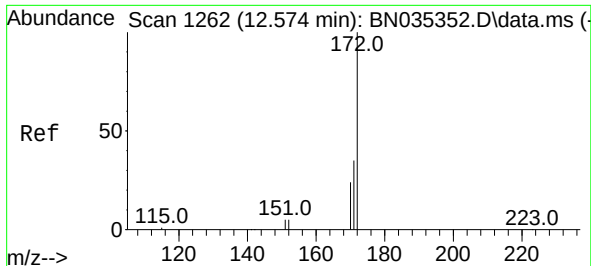
Tgt Ion:164 Resp: 5197
Ion Ratio Lower Upper
164 100
162 105.0 82.2 123.2
160 50.5 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.184 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:330 Resp: 679
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.9 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.279 ng

RT: 12.538 min Scan# 1405

Delta R.T. -0.005 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

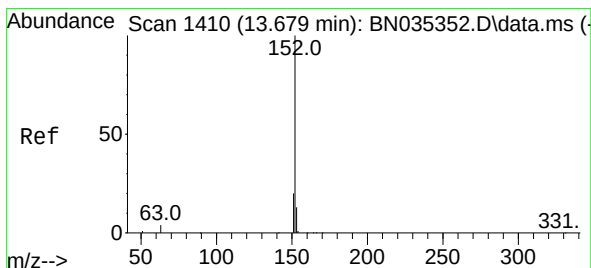
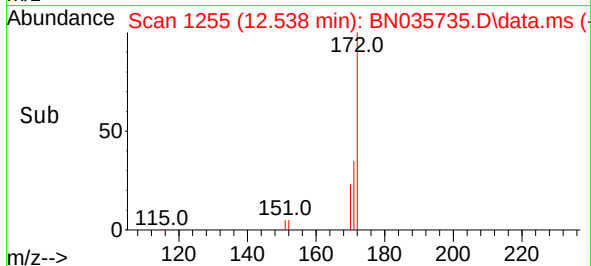
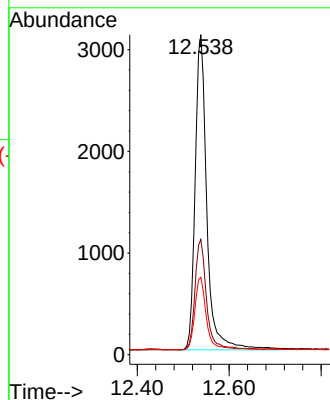
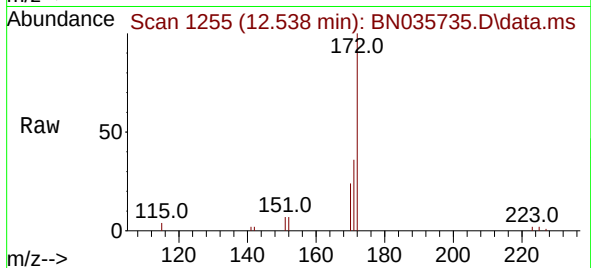
Tgt Ion:172 Resp: 5479

Ion Ratio Lower Upper

172 100

171 36.0 29.0 43.4

170 24.2 19.8 29.8



#16

Acenaphthylene

Concen: 0.303 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

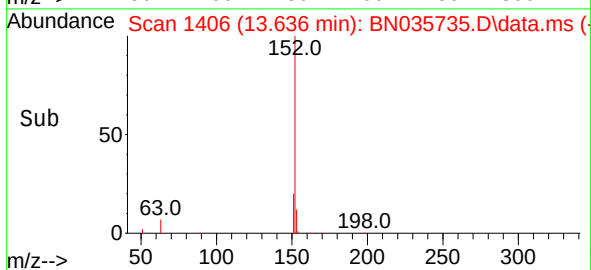
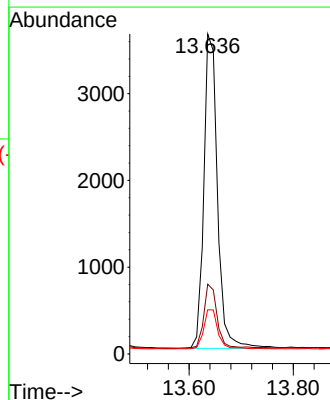
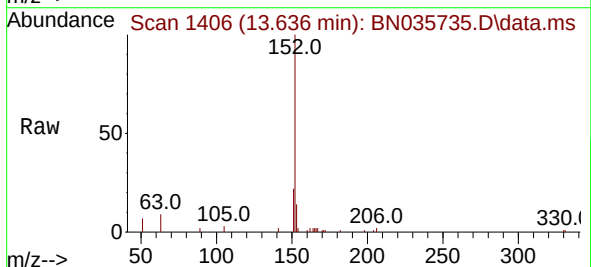
Tgt Ion:152 Resp: 6604

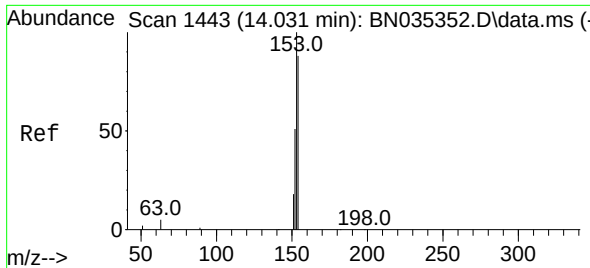
Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.2

153 13.1 10.4 15.6

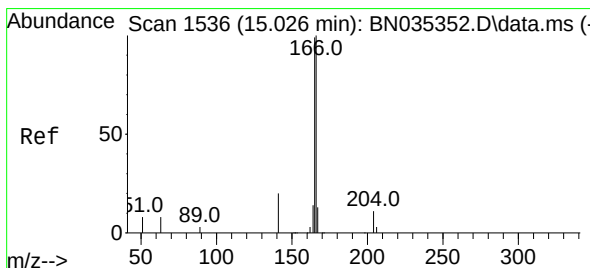
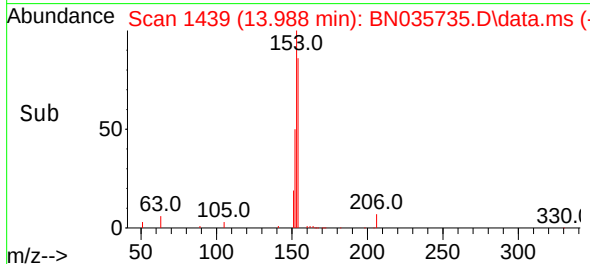
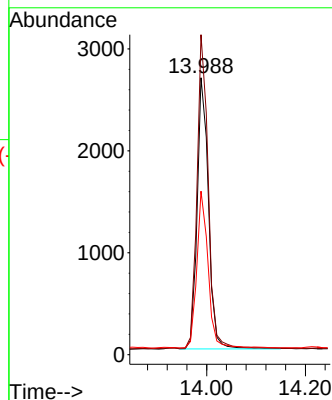
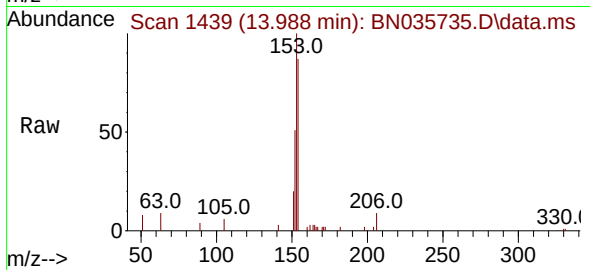




#17
Acenaphthene
Concen: 0.292 ng
RT: 13.988 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

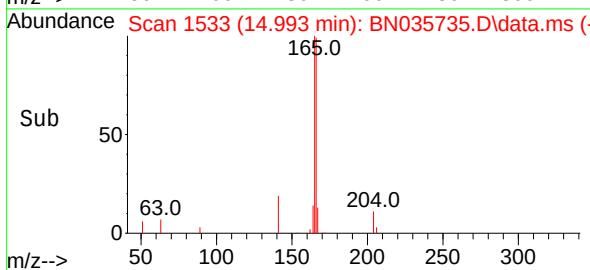
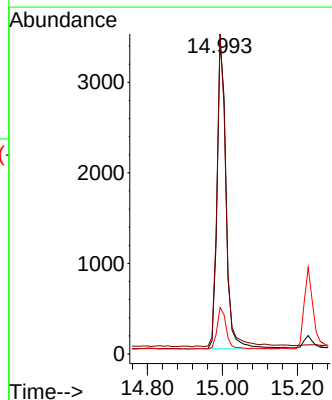
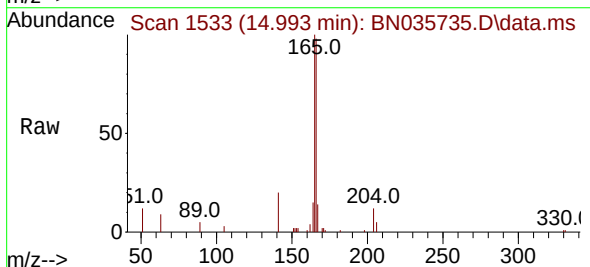
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

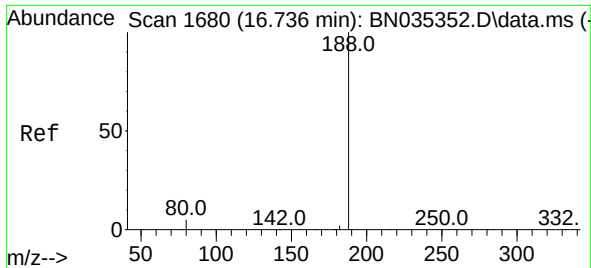
Tgt Ion:154 Resp: 4230
Ion Ratio Lower Upper
154 100
153 116.1 92.6 139.0
152 57.3 49.0 73.6



#18
Fluorene
Concen: 0.276 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:166 Resp: 5719
Ion Ratio Lower Upper
166 100
165 99.7 79.7 119.5
167 13.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

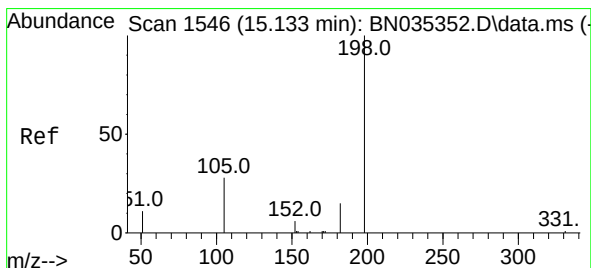
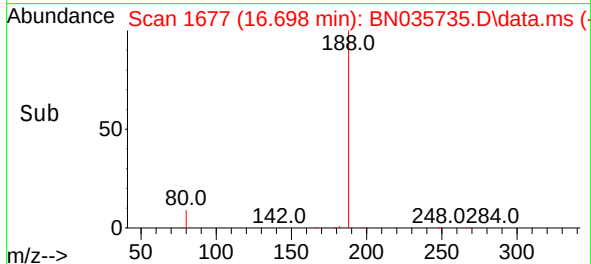
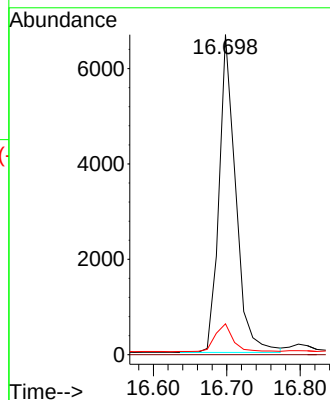
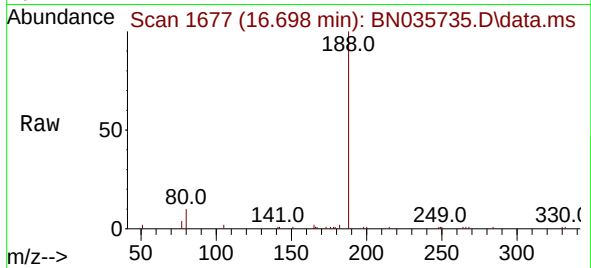
Tgt Ion:188 Resp: 10502

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.100 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

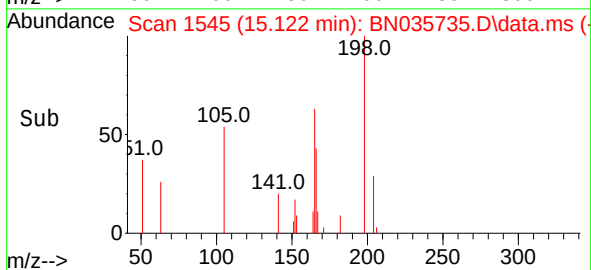
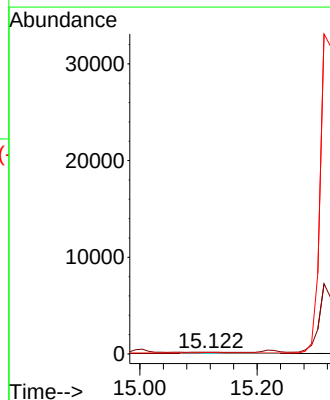
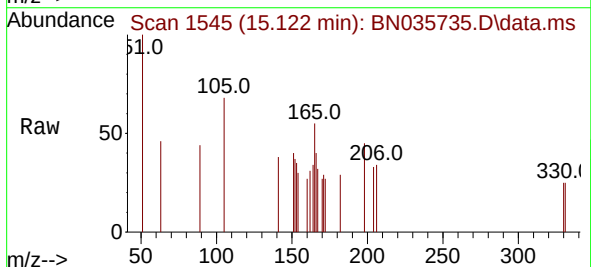
Tgt Ion:198 Resp: 103

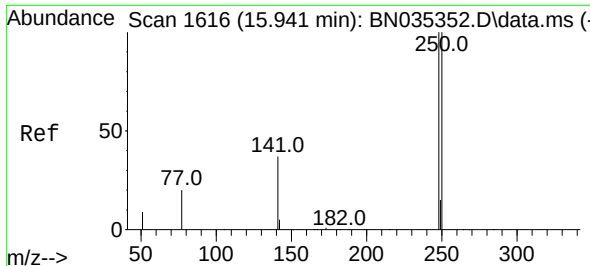
Ion Ratio Lower Upper

198 100

51 220.2 46.5 69.7#

105 150.0 45.3 67.9#

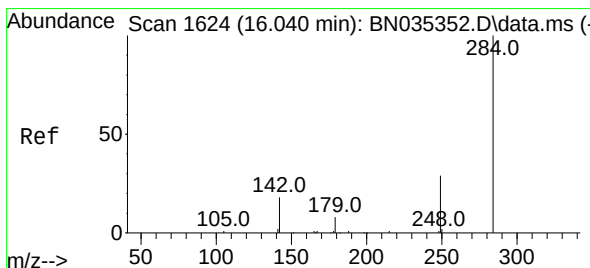
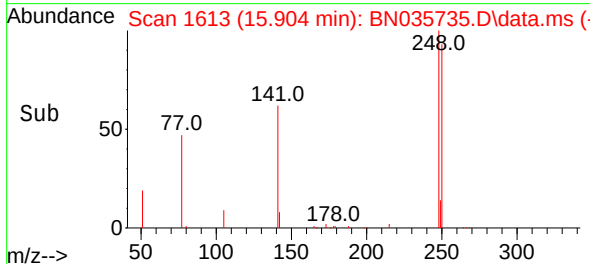
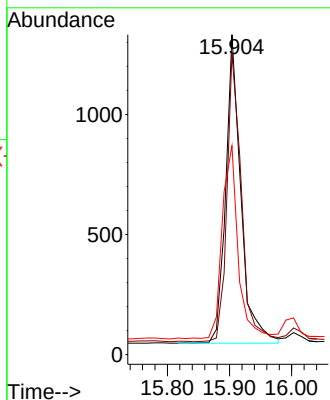
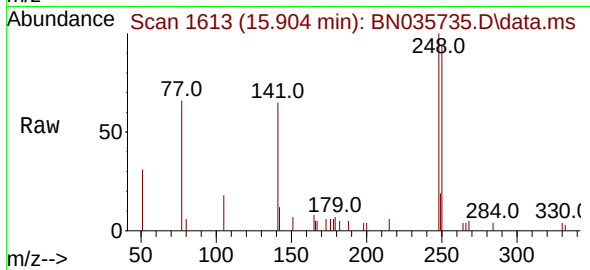




#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

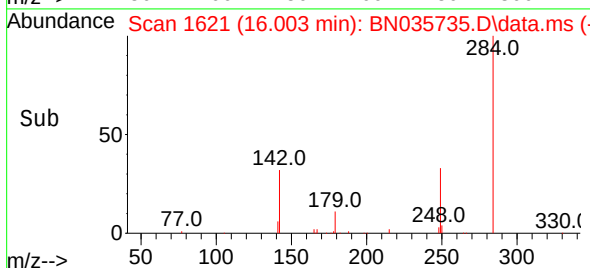
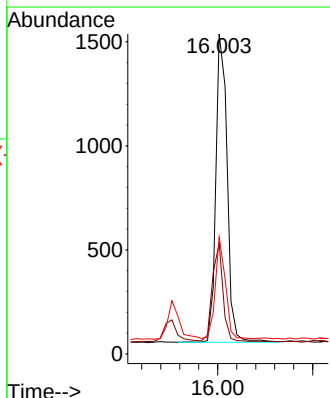
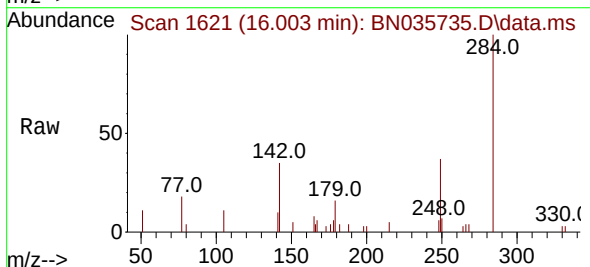
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

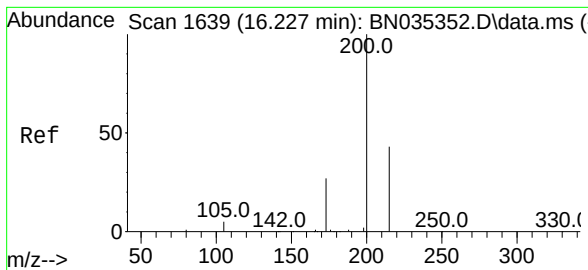
Tgt Ion:248 Resp: 2167
Ion Ratio Lower Upper
248 100
250 94.2 80.6 120.8
141 65.2 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.339 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:284 Resp: 2445
Ion Ratio Lower Upper
284 100
142 30.1 26.7 40.1
249 29.0 24.6 36.8





#23

Atrazine

Concen: 0.288 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

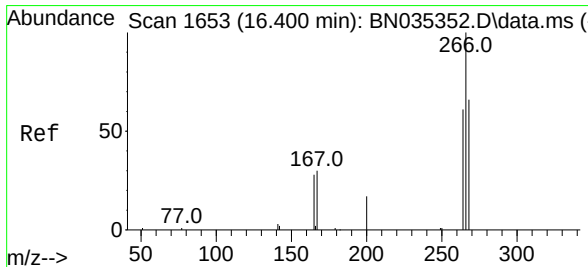
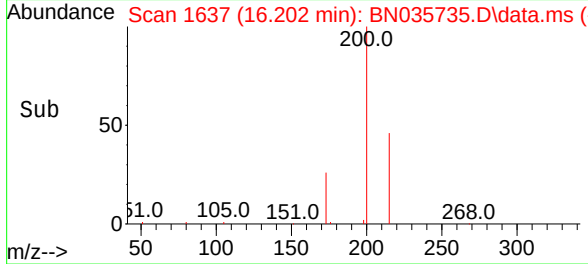
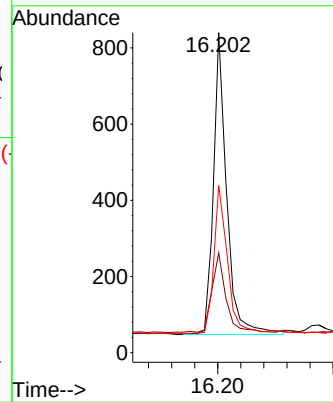
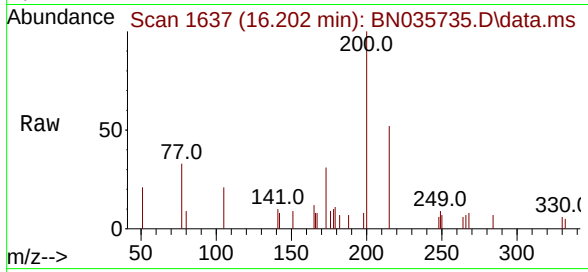
Tgt Ion:200 Resp: 1259

Ion Ratio Lower Upper

200 100

173 31.2 24.1 36.1

215 52.3 36.9 55.3



#24

Pentachlorophenol

Concen: 0.087 ng

RT: 16.375 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

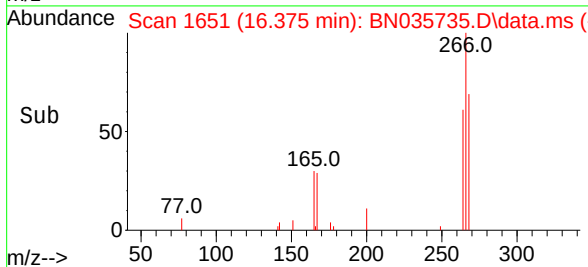
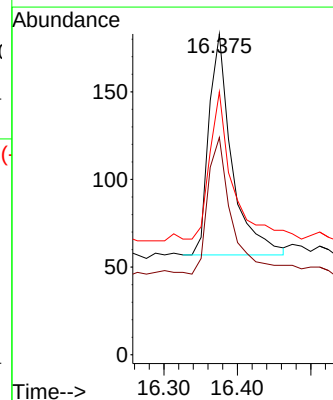
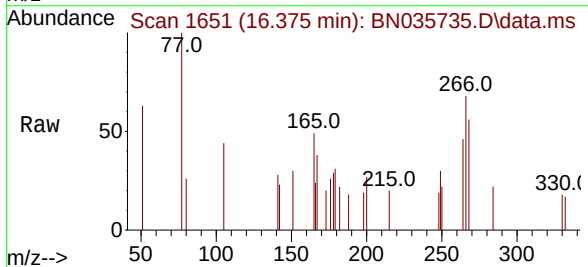
Tgt Ion:266 Resp: 273

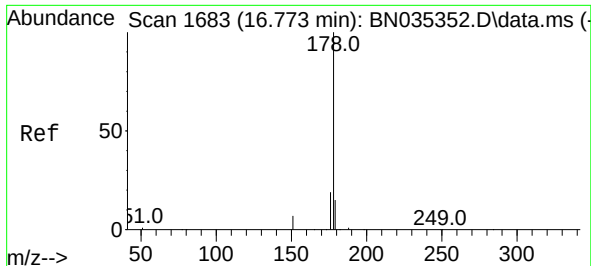
Ion Ratio Lower Upper

266 100

264 65.9 42.3 63.5#

268 70.7 43.3 64.9#





#25

Phenanthrene

Concen: 0.356 ng

RT: 16.735 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

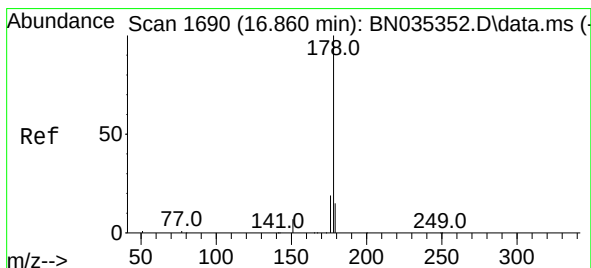
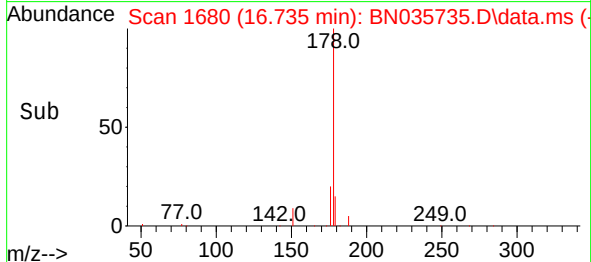
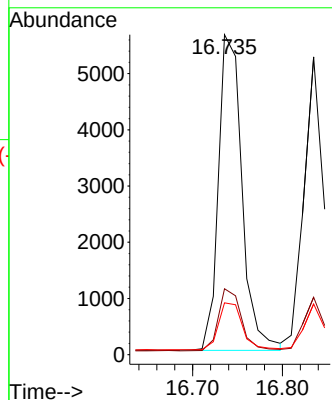
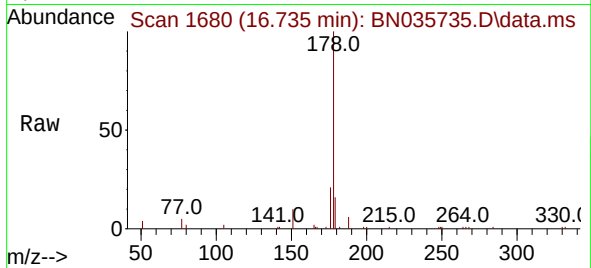
Tgt Ion:178 Resp: 10260

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.2 12.3 18.5



#26

Anthracene

Concen: 0.342 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

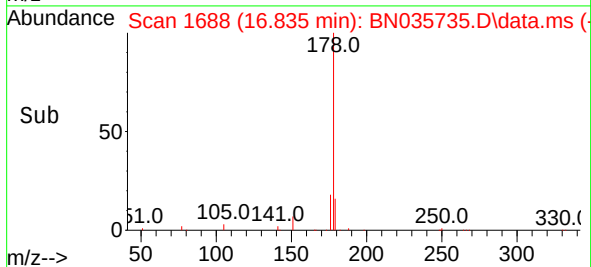
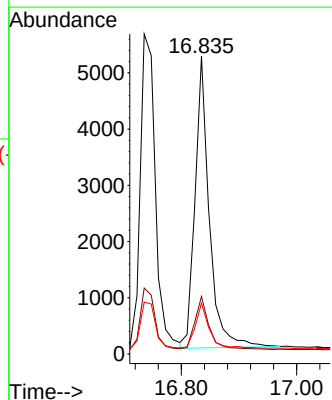
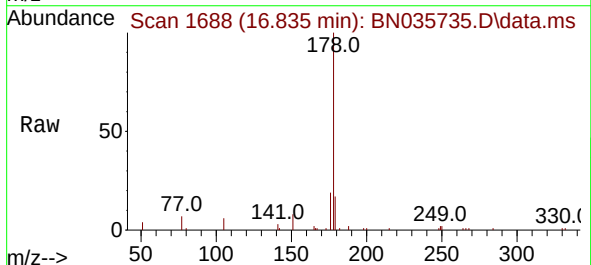
Tgt Ion:178 Resp: 8925

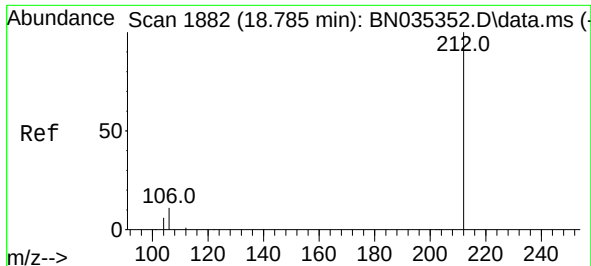
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 18.757 min Scan# 1876

Delta R.T. -0.005 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

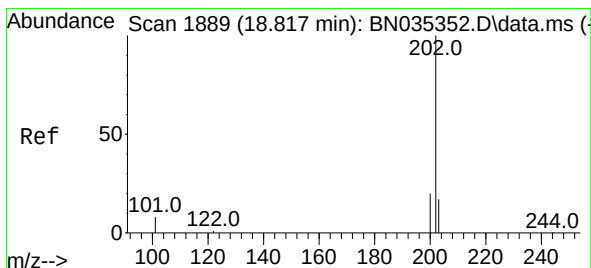
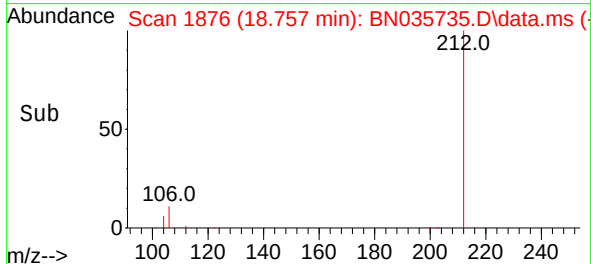
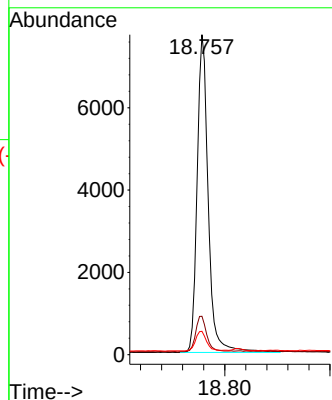
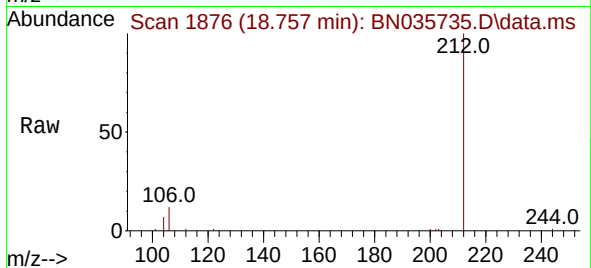
Tgt Ion:212 Resp: 11313

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

104 6.1 5.3 7.9



#28

Fluoranthene

Concen: 0.332 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

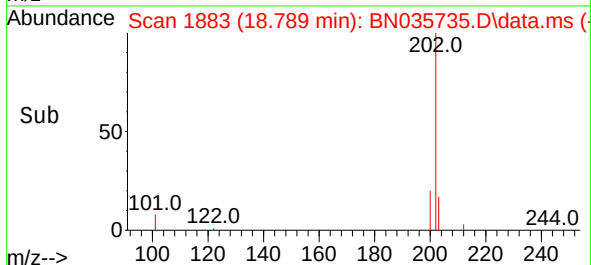
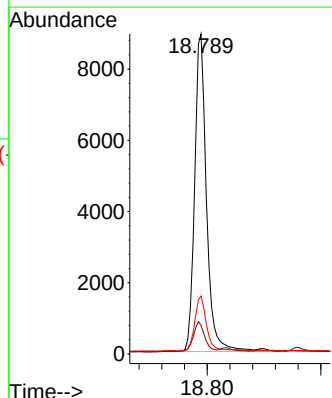
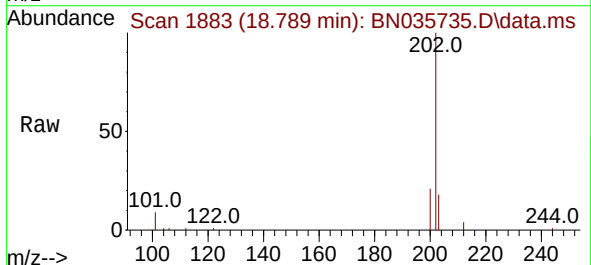
Tgt Ion:202 Resp: 12930

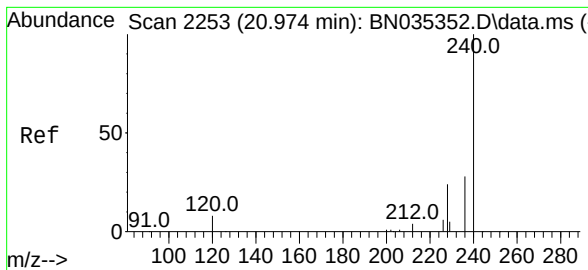
Ion Ratio Lower Upper

202 100

101 8.8 7.4 11.0

203 16.8 13.7 20.5

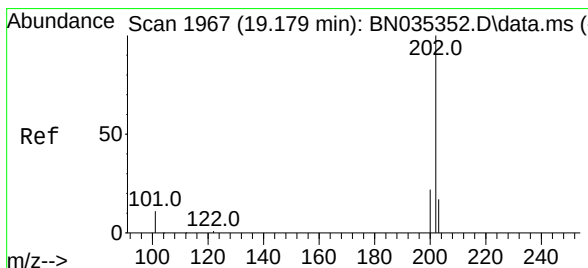
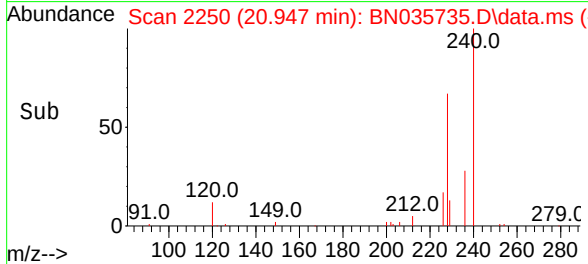
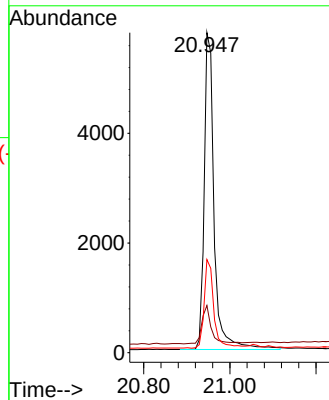
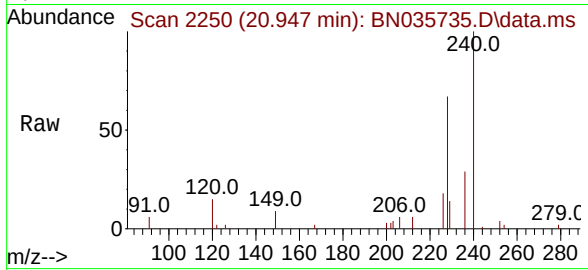




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

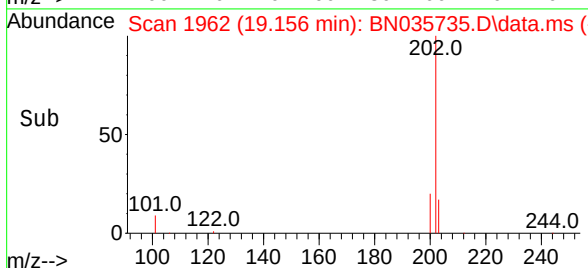
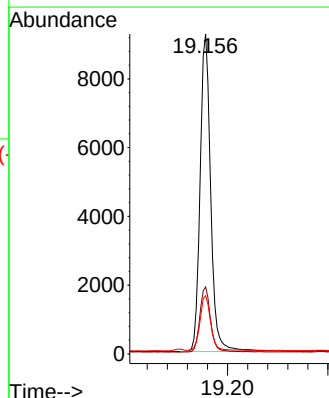
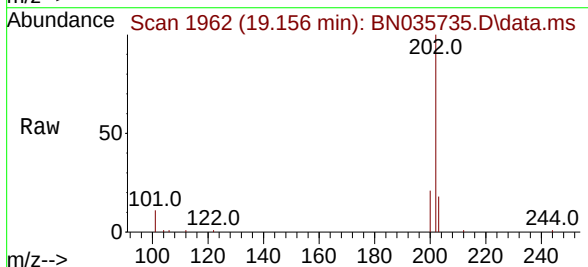
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS

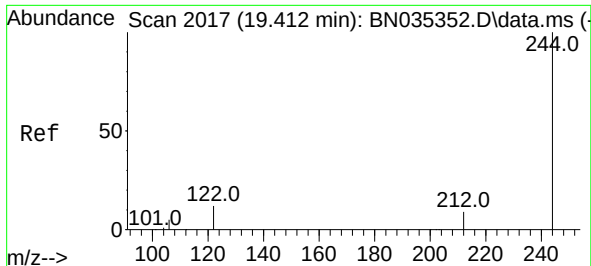
Tgt Ion:240 Resp: 9278
Ion Ratio Lower Upper
240 100
120 14.8 7.9 11.9#
236 29.1 22.9 34.3



#30
Pyrene
Concen: 0.394 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Tgt Ion:202 Resp: 13495
Ion Ratio Lower Upper
202 100
200 20.6 17.0 25.4
203 17.6 14.3 21.5

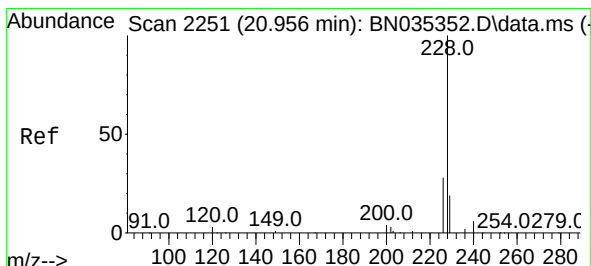
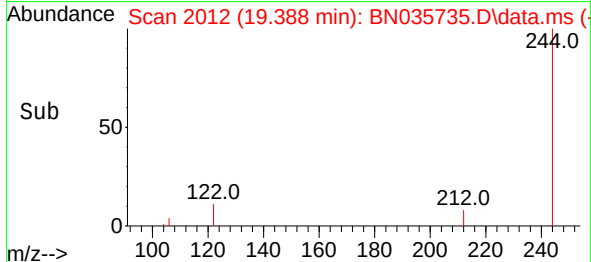
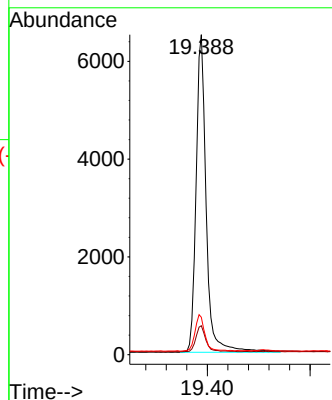
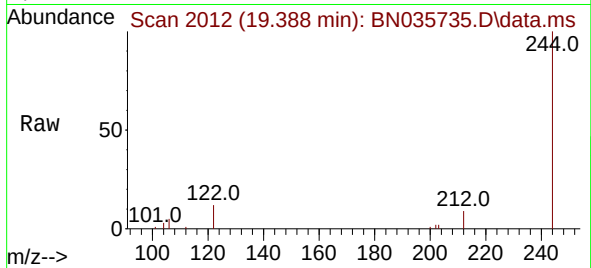




#31
 Terphenyl-d14
 Concen: 0.488 ng
 RT: 19.388 min Scan# 2017
 Delta R.T. -0.000 min
 Lab File: BN035735.D
 Acq: 20 Dec 2024 11:05

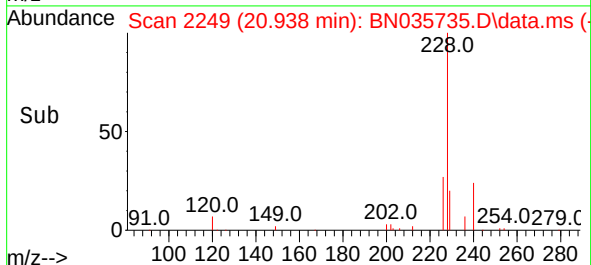
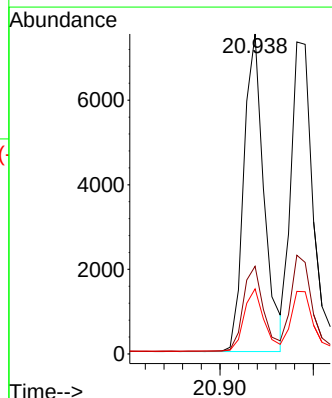
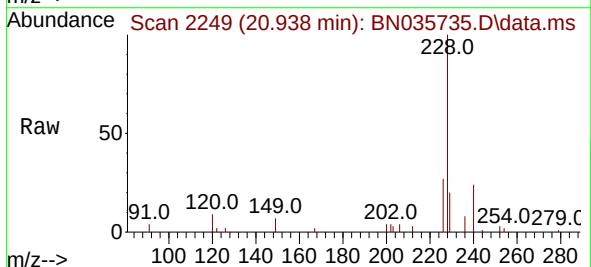
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-11-20241212MS

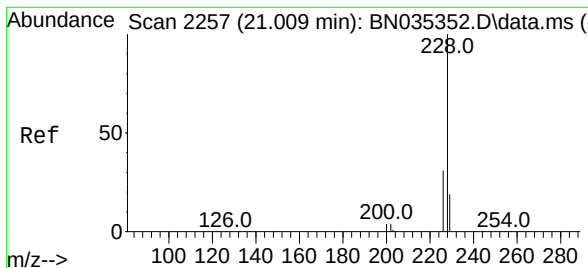
Tgt Ion:244 Resp: 8932
 Ion Ratio Lower Upper
 244 100
 212 9.0 8.1 12.1
 122 11.7 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.348 ng
 RT: 20.938 min Scan# 2249
 Delta R.T. -0.000 min
 Lab File: BN035735.D
 Acq: 20 Dec 2024 11:05

Tgt Ion:228 Resp: 11302
 Ion Ratio Lower Upper
 228 100
 226 27.4 22.5 33.7
 229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.378 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

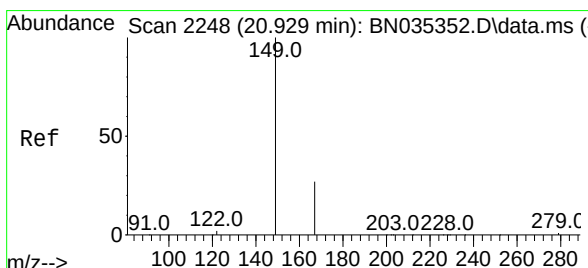
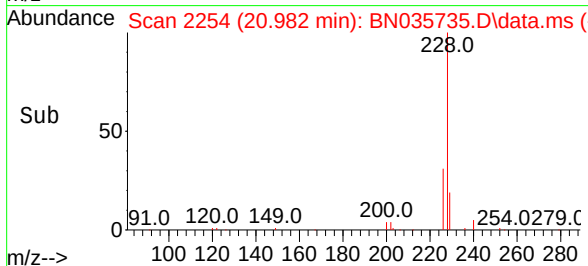
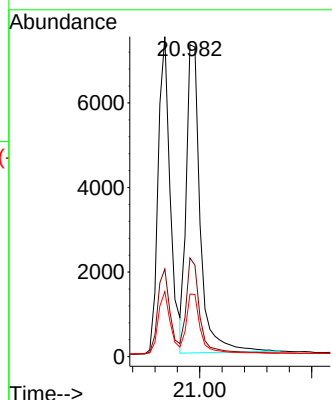
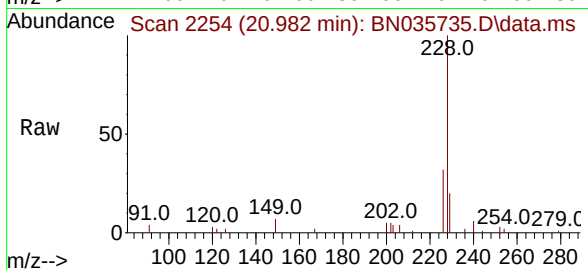
Tgt Ion:228 Resp: 12637

Ion Ratio Lower Upper

228 100

226 31.6 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.477 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

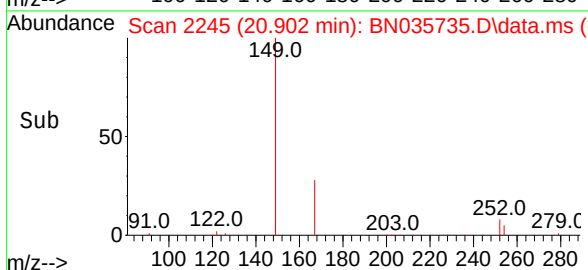
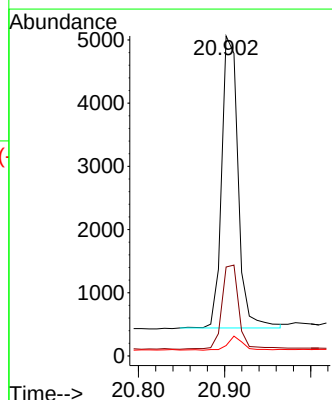
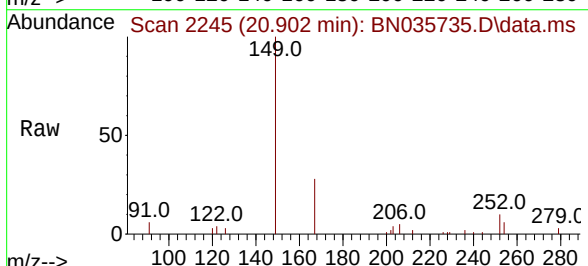
Tgt Ion:149 Resp: 6113

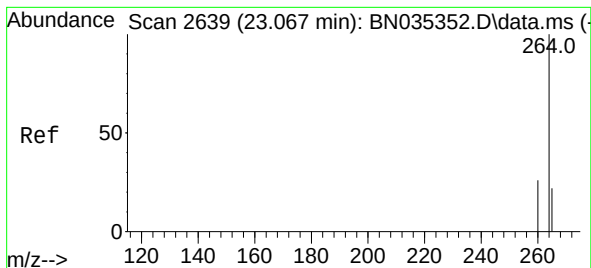
Ion Ratio Lower Upper

149 100

167 29.6 22.2 33.4

279 4.4 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2

Delta R.T. -0.003 min

Lab File: BN035735.D

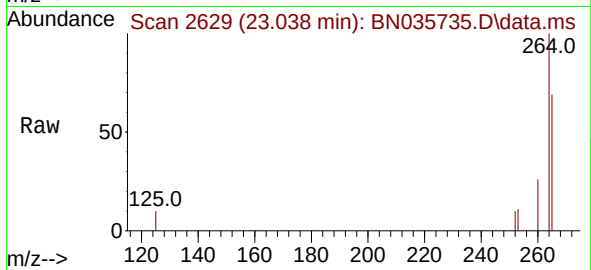
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



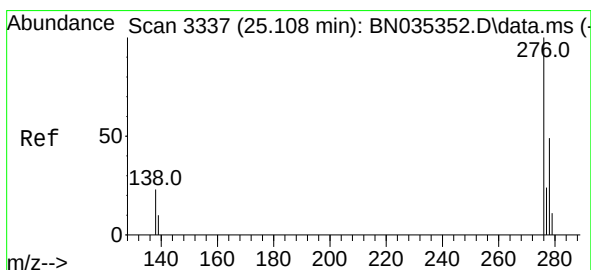
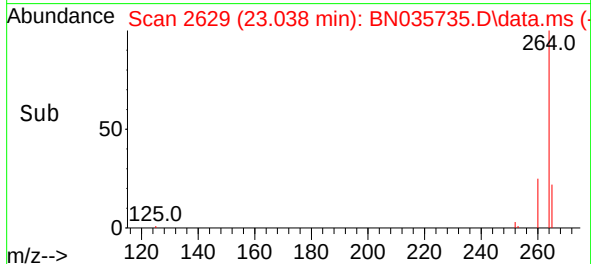
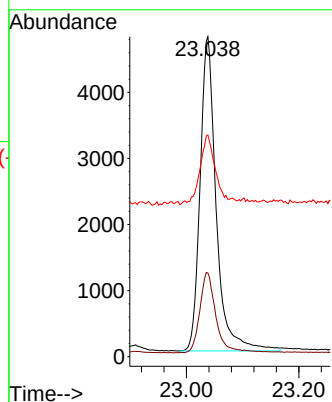
Tgt Ion:264 Resp: 9467

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

265 69.3 40.2 60.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.335 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.006 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

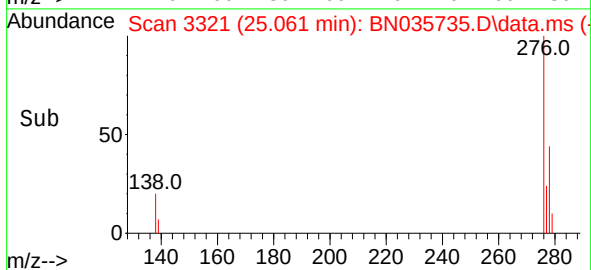
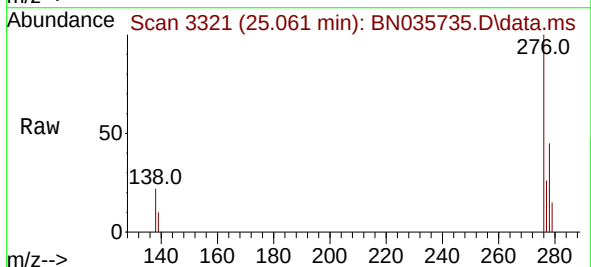
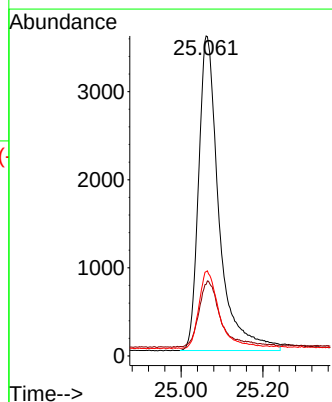
Tgt Ion:276 Resp: 12412

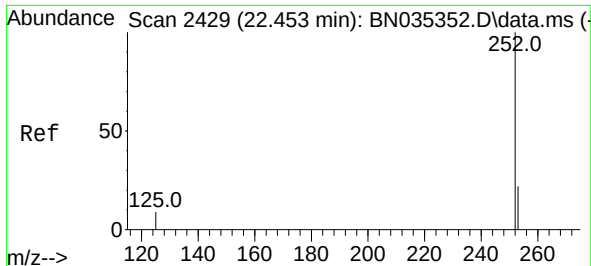
Ion Ratio Lower Upper

276 100

138 21.0 19.4 29.0

277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.536 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035735.D

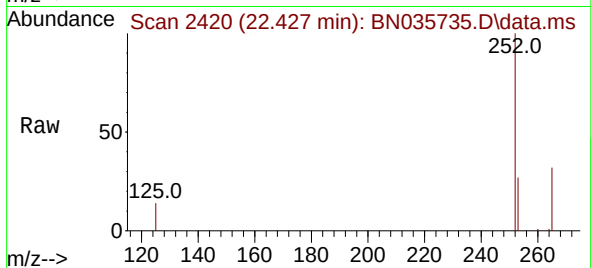
Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS



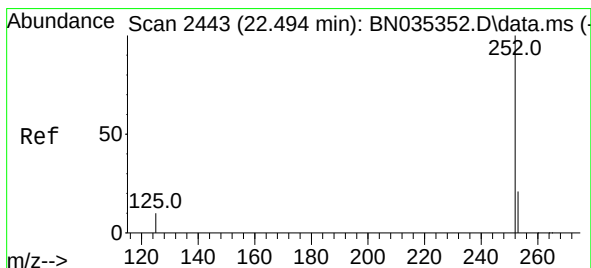
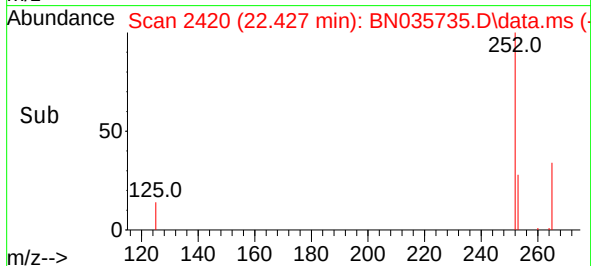
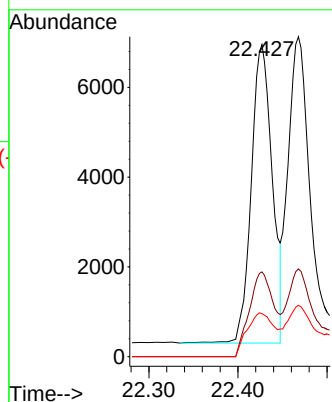
Tgt Ion:252 Resp: 18573

Ion Ratio Lower Upper

252 100

253 27.2 19.6 29.4

125 13.8 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.545 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

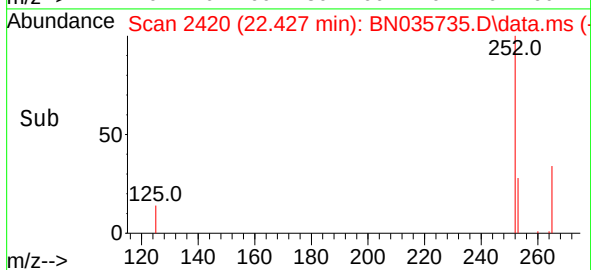
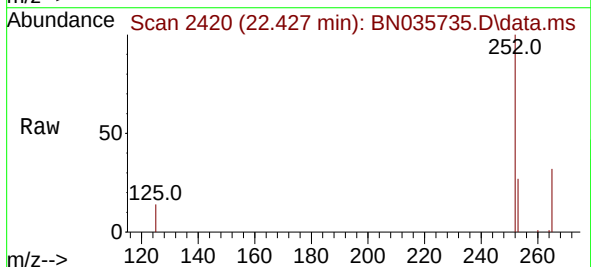
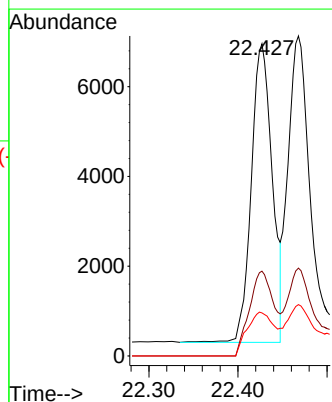
Tgt Ion:252 Resp: 18573

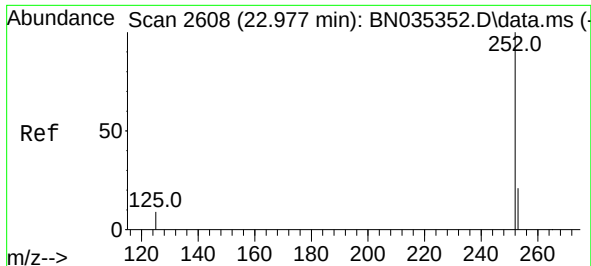
Ion Ratio Lower Upper

252 100

253 27.2 19.5 29.3

125 13.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.326 ng

RT: 22.950 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MS

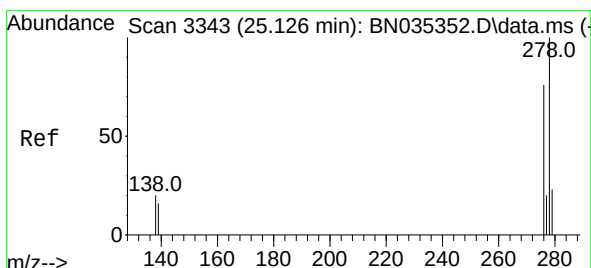
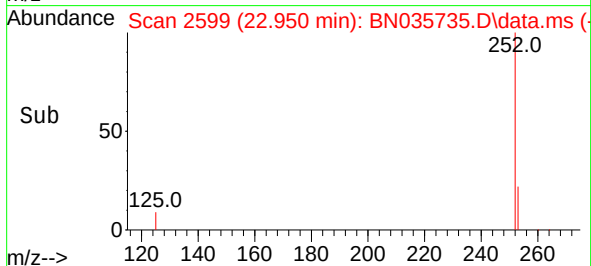
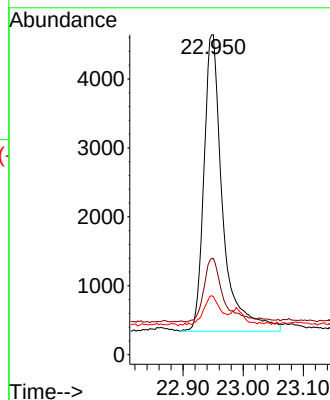
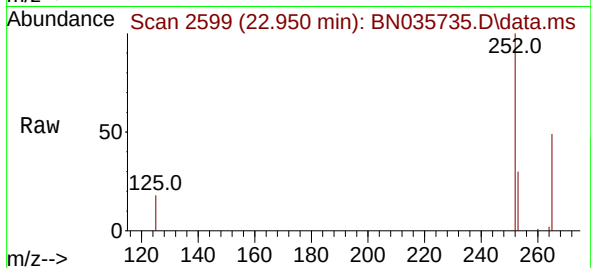
Tgt Ion:252 Resp: 9310

Ion Ratio Lower Upper

252 100

253 30.1 20.2 30.4

125 18.2 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.331 ng

RT: 25.082 min Scan# 3328

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

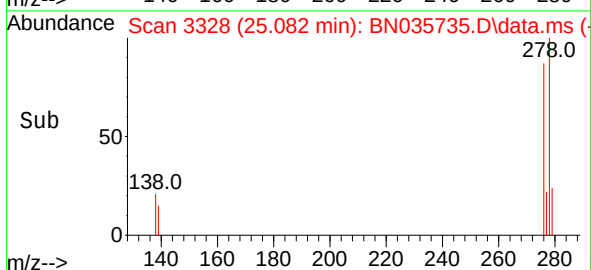
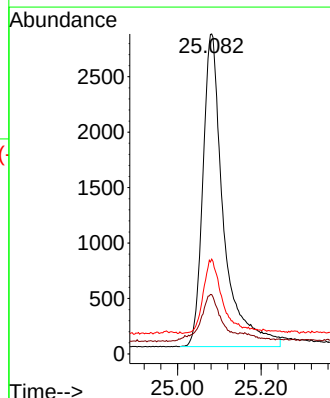
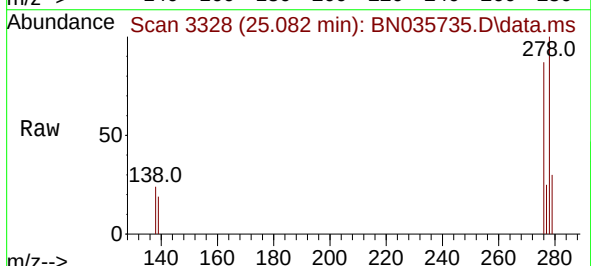
Tgt Ion:278 Resp: 9663

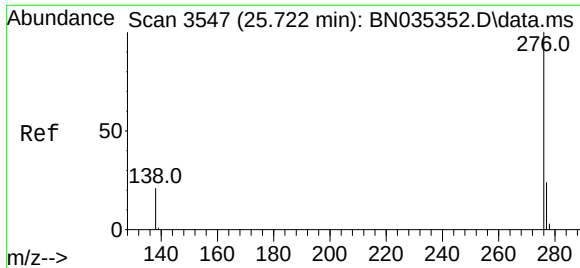
Ion Ratio Lower Upper

278 100

139 18.5 14.2 21.4

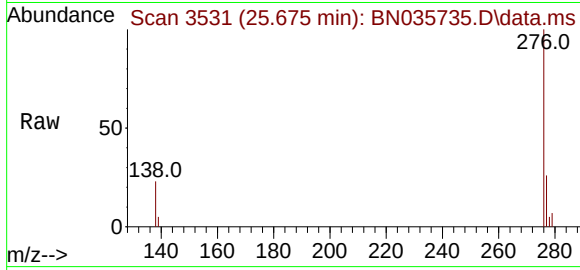
279 29.6 20.5 30.7



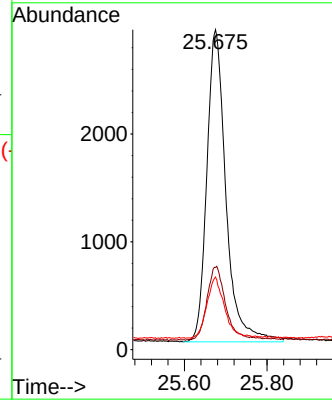
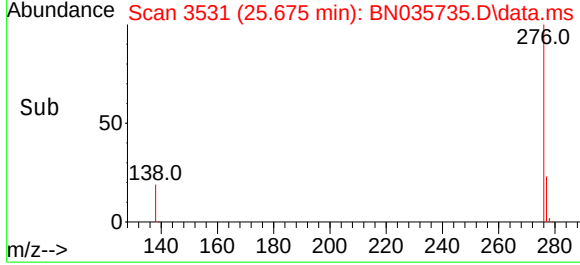


#41
Benzo(g,h,i)perylene
Concen: 0.305 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN035735.D
Acq: 20 Dec 2024 11:05

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MS



Tgt Ion:276 Resp: 9301
Ion Ratio Lower Upper
276 100
277 25.7 19.9 29.9
138 22.7 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035736.D
 Acq On : 20 Dec 2024 11:41
 Operator : RC/JU
 Sample : P5280-05MSD
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-11-20241212MSD

Quant Time: Dec 20 12:27:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

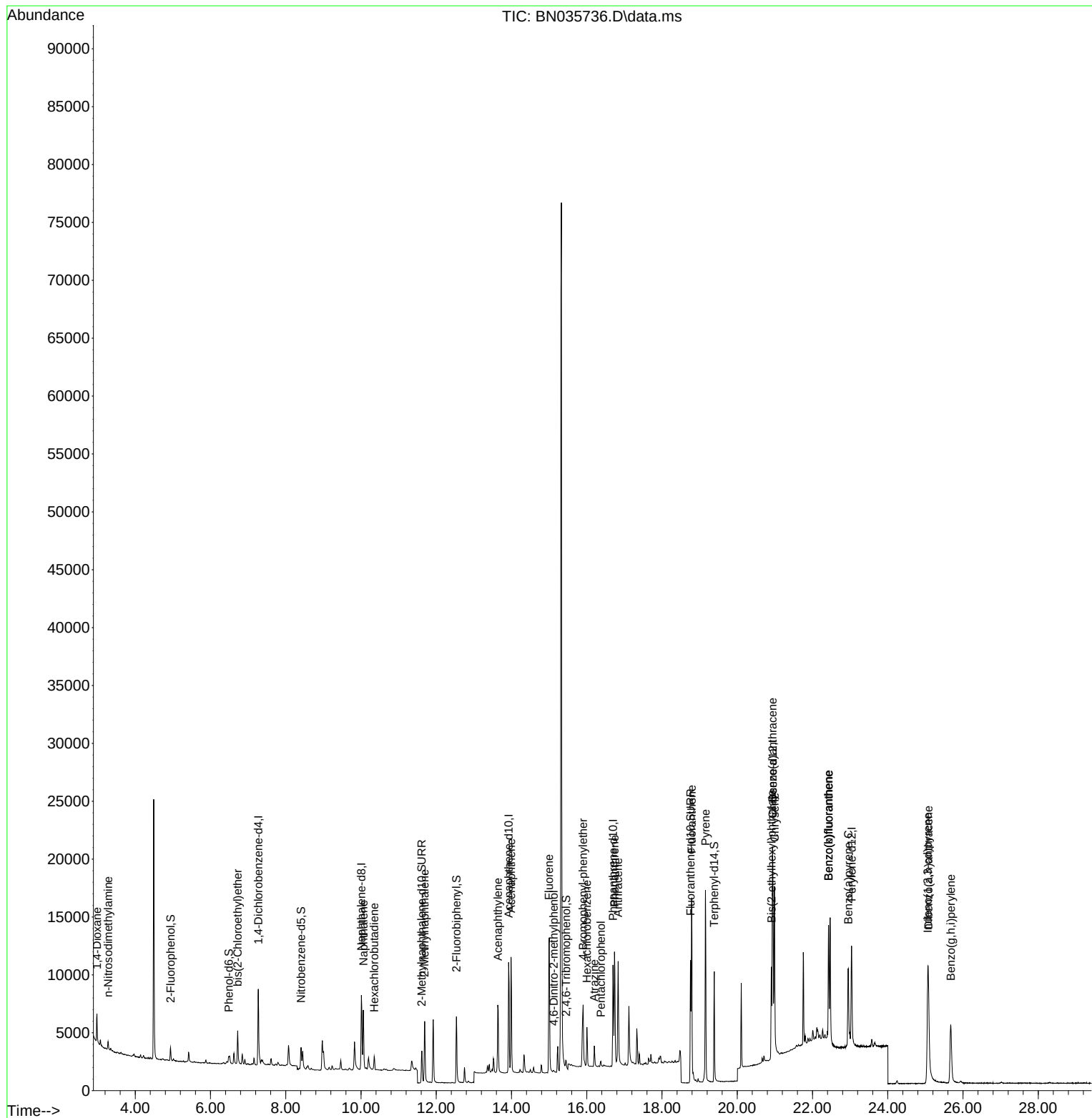
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	3357	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9243	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5773	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	12117	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	11029	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	11370	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	942	0.112	ng	0.00
5) Phenol-d6	6.484	99	701	0.069	ng	0.00
8) Nitrobenzene-d5	8.408	82	2329	0.413	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4592	0.317	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	754	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6026	0.276	ng	0.00
27) Fluoranthene-d10	18.757	212	13288	0.387	ng	0.00
31) Terphenyl-d14	19.388	244	10572	0.486	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1749	0.545	ng	# 90
3) n-Nitrosodimethylamine	3.278	42	394	0.147	ng	# 89
6) bis(2-Chloroethyl)ether	6.723	93	2407	0.284	ng	99
9) Naphthalene	10.063	128	6583	0.270	ng	99
10) Hexachlorobutadiene	10.351	225	924	0.164	ng	# 99
12) 2-Methylnaphthalene	11.692	142	4392	0.252	ng	98
16) Acenaphthylene	13.636	152	7346	0.303	ng	99
17) Acenaphthene	13.989	154	4688	0.291	ng	98
18) Fluorene	14.993	166	6437	0.279	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	141	0.118	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2466	0.348	ng	# 82
22) Hexachlorobenzene	16.003	284	2768	0.333	ng	95
23) Atrazine	16.202	200	1444	0.286	ng	96
24) Pentachlorophenol	16.375	266	361	0.100	ng	92
25) Phenanthrene	16.735	178	11782	0.354	ng	99
26) Anthracene	16.835	178	10189	0.338	ng	99
28) Fluoranthene	18.789	202	15192	0.339	ng	99
30) Pyrene	19.156	202	15901	0.391	ng	99
32) Benzo(a)anthracene	20.938	228	13511	0.350	ng	98
33) Chrysene	20.991	228	15009	0.377	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7279	0.478	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.061	276	14877	0.335	ng	98
37) Benzo(b)fluoranthene	22.427	252	21467	0.516	ng	97
38) Benzo(k)fluoranthene	22.427	252	21467	0.524	ng	97
39) Benzo(a)pyrene	22.950	252	11175	0.326	ng	93
40) Dibenzo(a,h)anthracene	25.079	278	11466	0.327	ng	97
41) Benzo(g,h,i)perylene	25.675	276	11017	0.301	ng	99

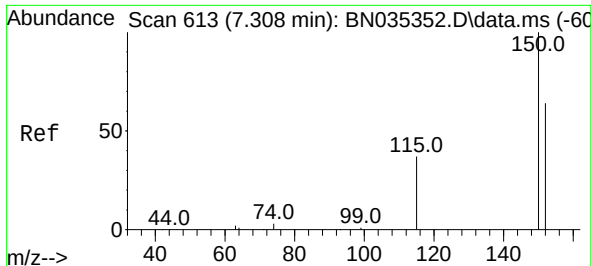
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035736.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : P5280-05MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

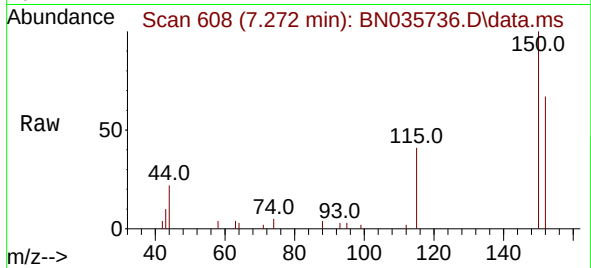
Quant Time: Dec 20 12:27:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



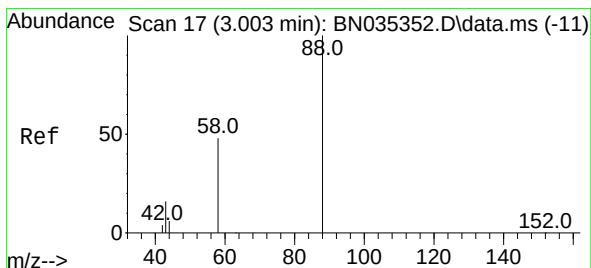
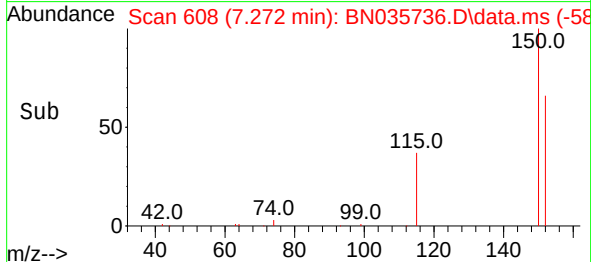
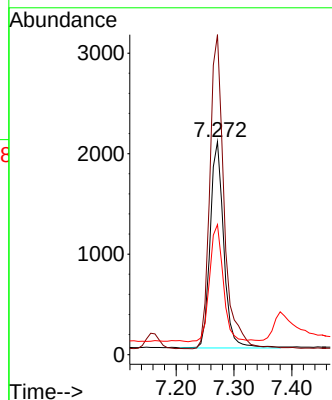


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

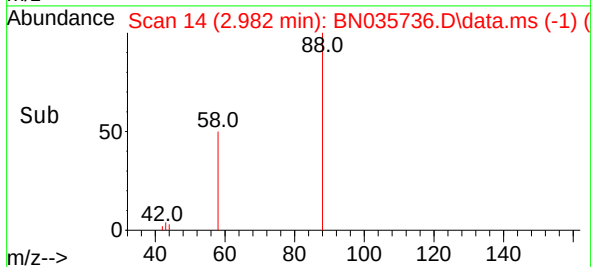
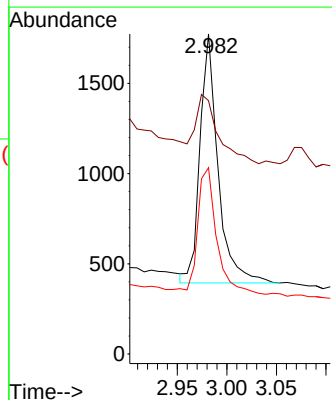
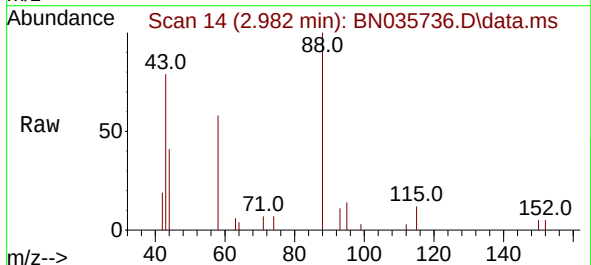


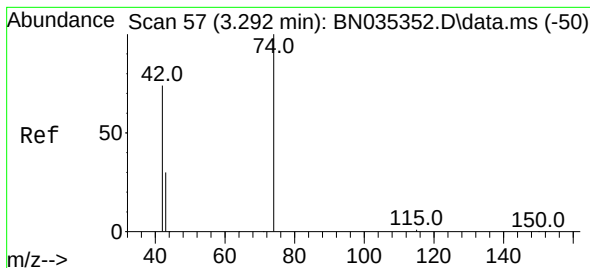
Tgt Ion:152 Resp: 3357
Ion Ratio Lower Upper
152 100
150 150.3 124.0 186.0
115 61.1 49.6 74.4



#2
1,4-Dioxane
Concen: 0.545 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 88 Resp: 1749
Ion Ratio Lower Upper
88 100
43 34.9 17.2 25.8#
58 53.4 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.147 ng

RT: 3.278 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

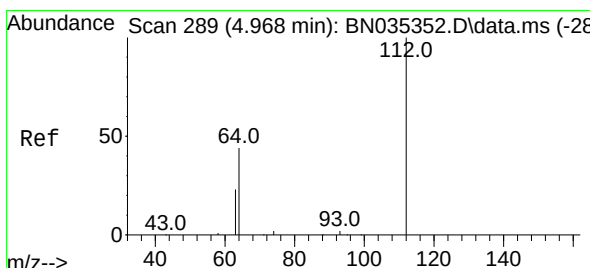
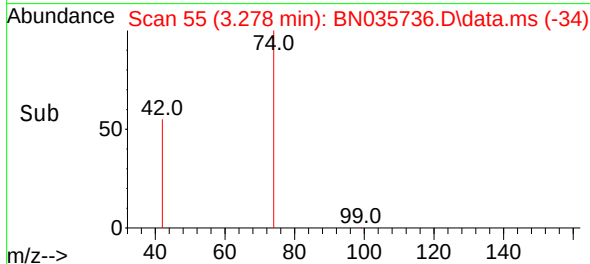
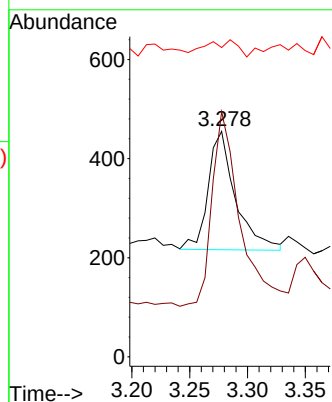
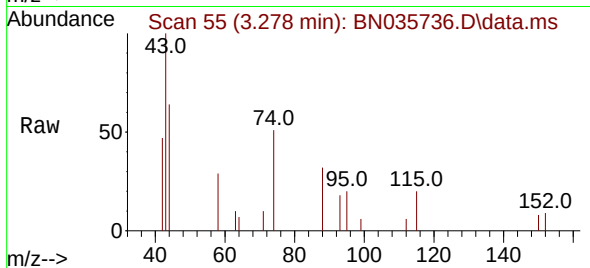
Tgt Ion: 42 Resp: 394

Ion Ratio Lower Upper

42 100

74 169.8 124.9 187.3

44 16.0 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.112 ng

RT: 4.939 min Scan# 285

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

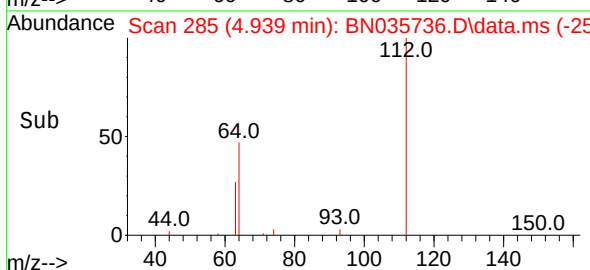
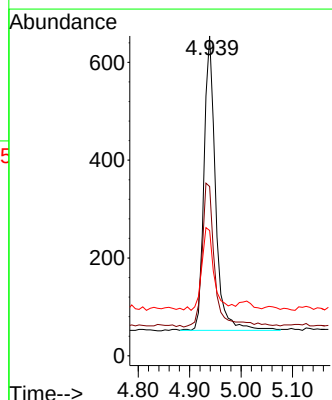
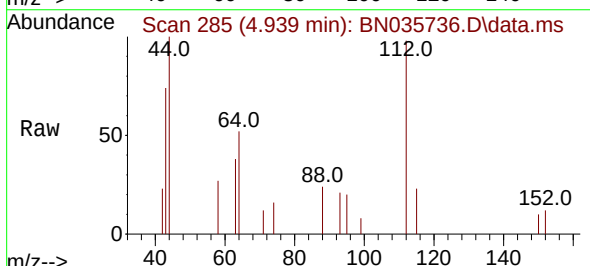
Tgt Ion: 112 Resp: 942

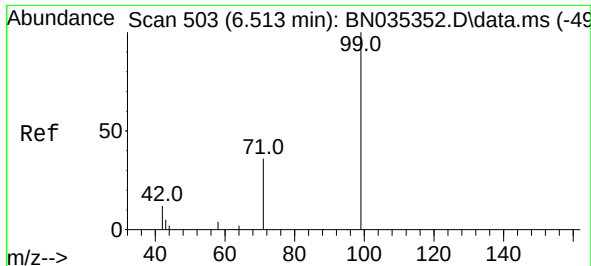
Ion Ratio Lower Upper

112 100

64 54.1 39.8 59.8

63 29.4 21.0 31.6

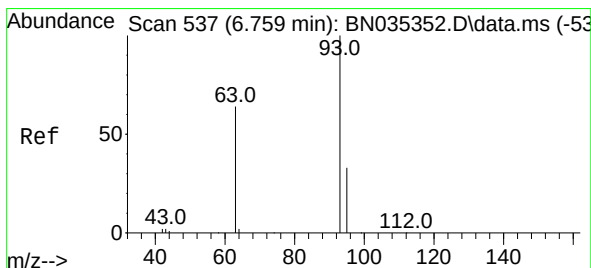
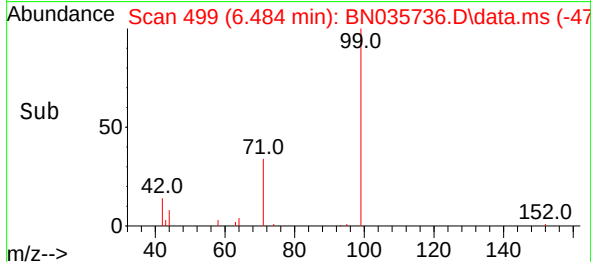
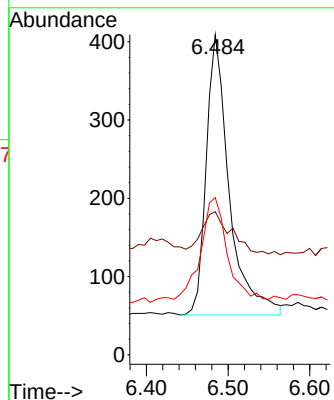
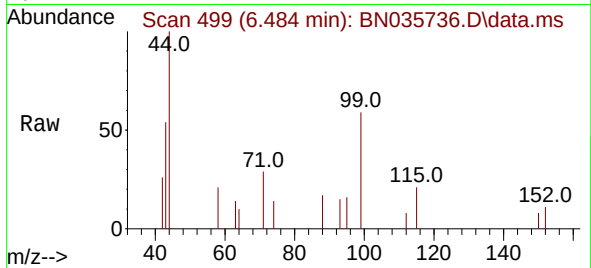




#5
Phenol-d6
Concen: 0.069 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

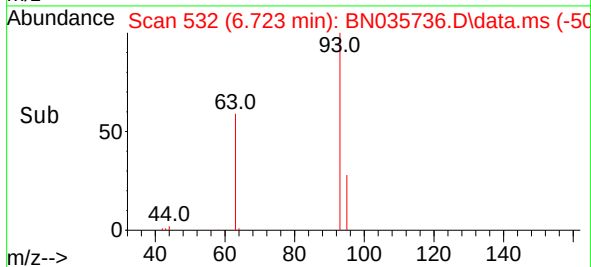
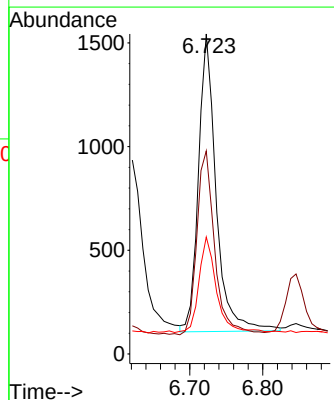
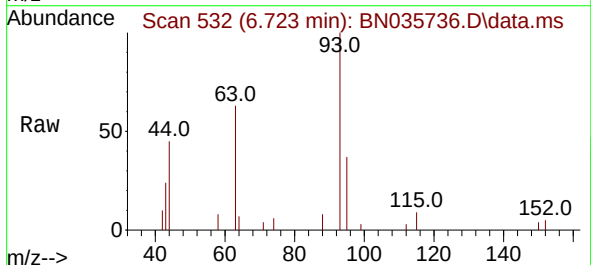
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

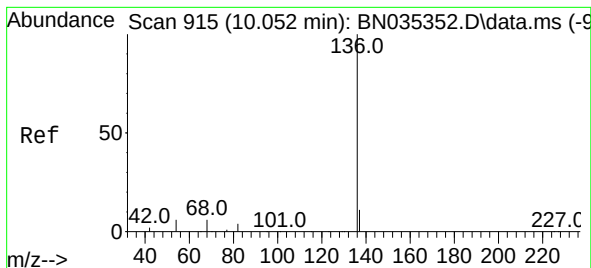
Tgt Ion: 99 Resp: 701
Ion Ratio Lower Upper
99 100
42 20.0 11.4 17.2#
71 45.9 29.3 43.9#



#6
bis(2-Chloroethyl)ether
Concen: 0.284 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 93 Resp: 2407
Ion Ratio Lower Upper
93 100
63 61.9 50.4 75.6
95 31.7 25.7 38.5

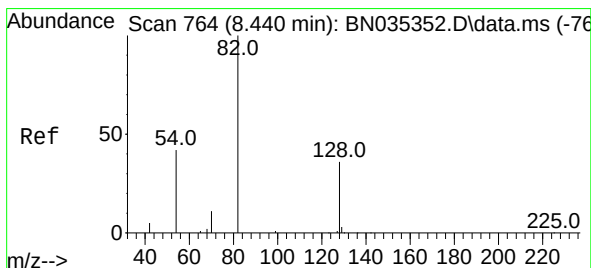
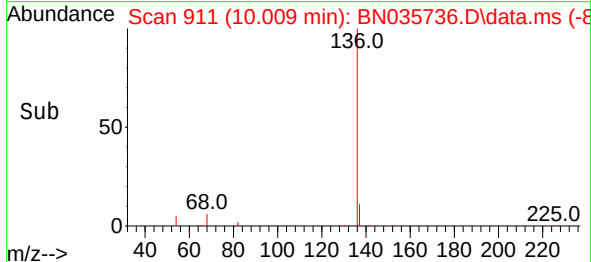
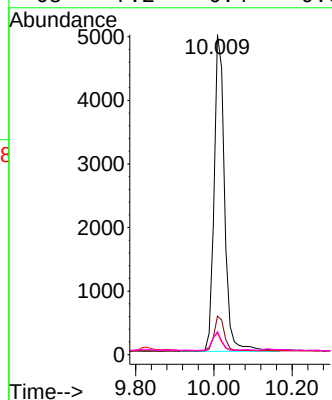
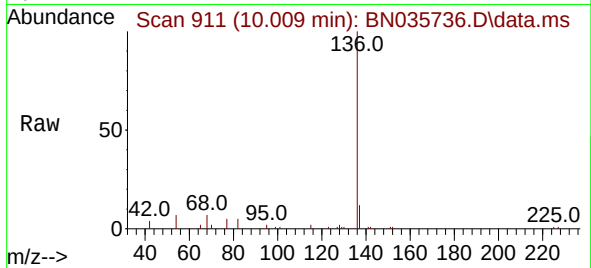




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

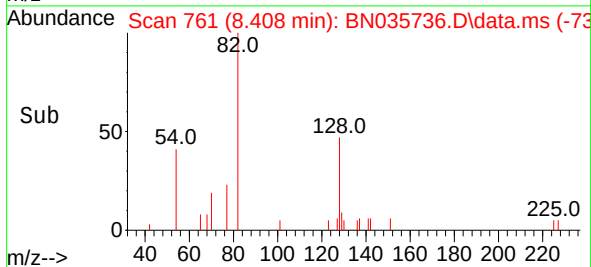
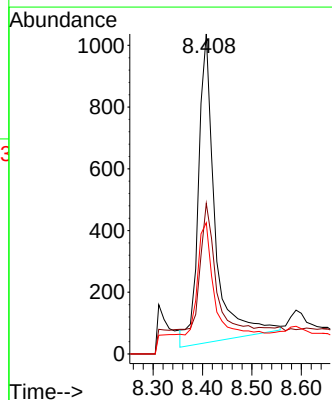
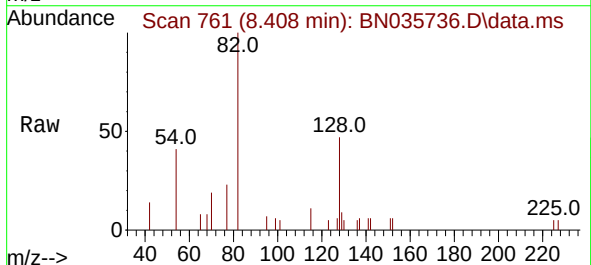
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

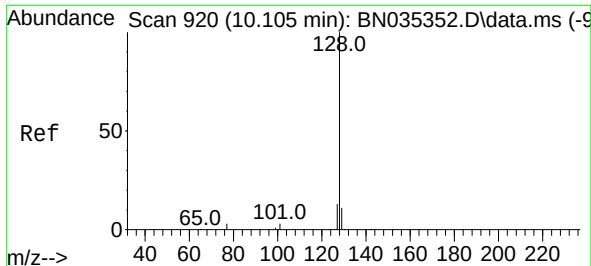
Tgt Ion:136	Resp:	9243
Ion Ratio	Lower	Upper
136	100	
137	12.1	10.2 15.2
54	6.7	6.1 9.1
68	7.2	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.413 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion: 82	Resp:	2329
Ion Ratio	Lower	Upper
82	100	
128	47.1	33.4 50.0
54	41.0	36.7 55.1

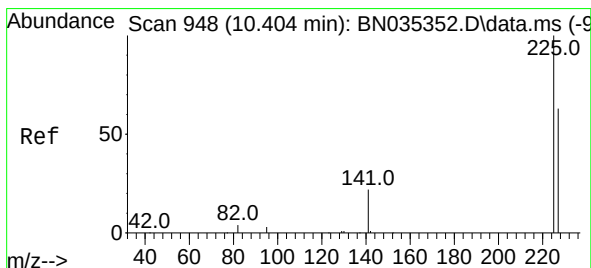
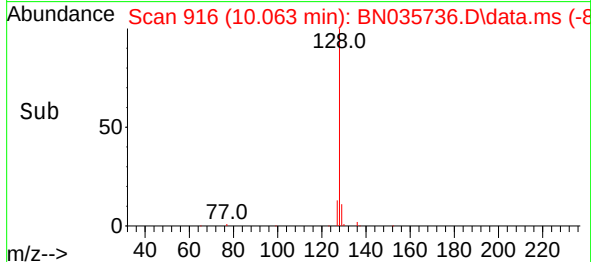
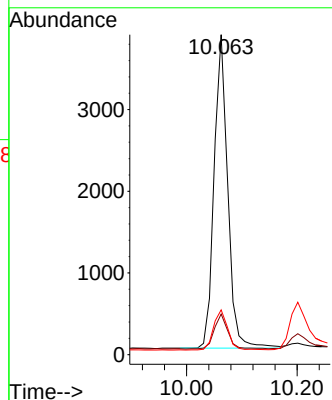
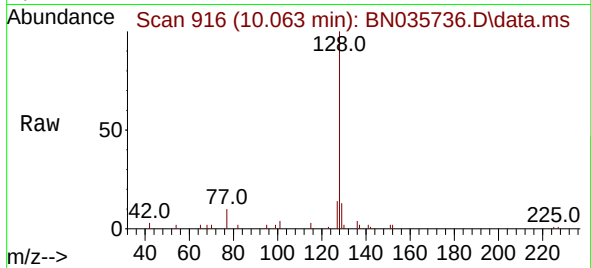




#9
Naphthalene
Concen: 0.270 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

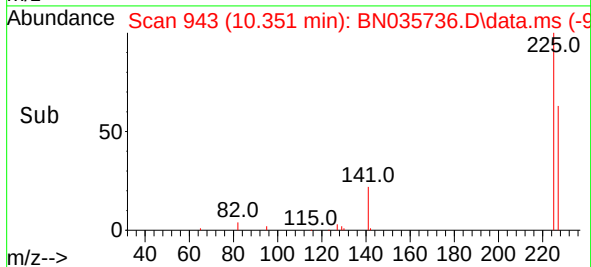
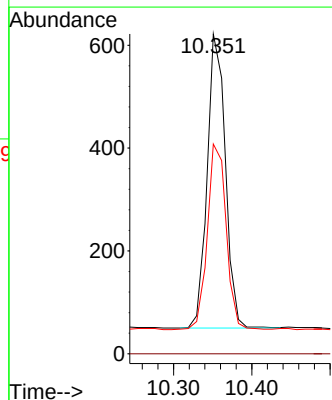
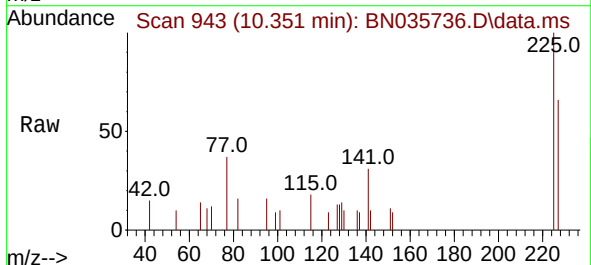
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

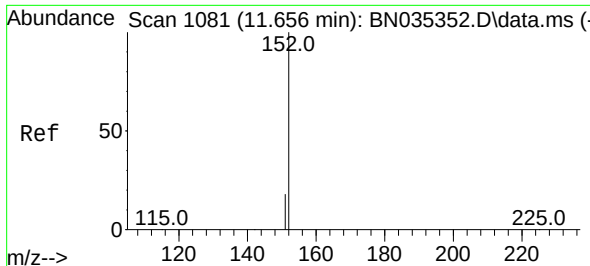
Tgt Ion:128 Resp: 6583
Ion Ratio Lower Upper
128 100
129 12.7 9.8 14.6
127 14.0 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.164 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:225 Resp: 924
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.3 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.317 ng

RT: 11.615 min Scan# 1073

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

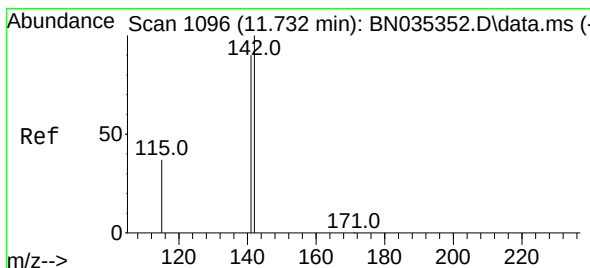
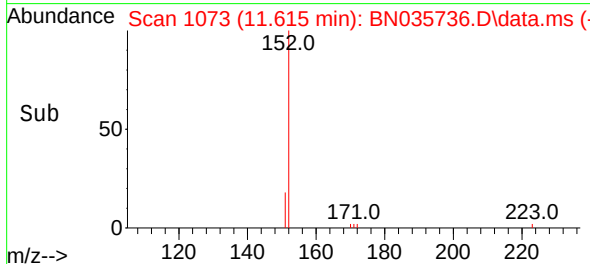
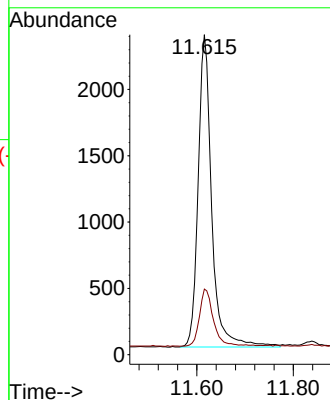
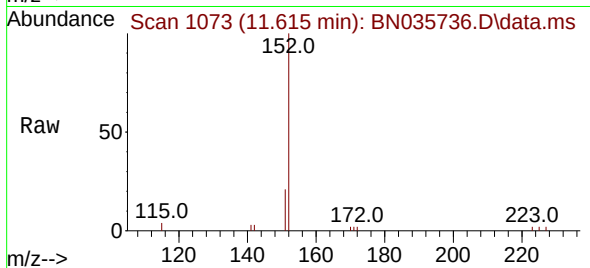
BPOW6-11-20241212MSD

Tgt Ion:152 Resp: 4592

Ion Ratio Lower Upper

152 100

151 19.0 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.252 ng

RT: 11.692 min Scan# 1088

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

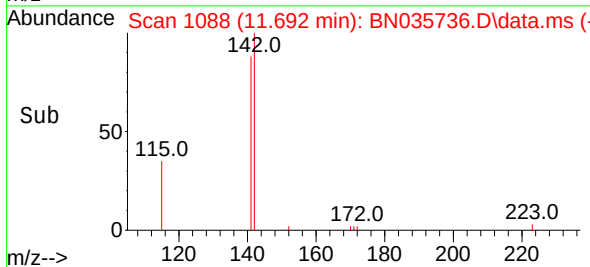
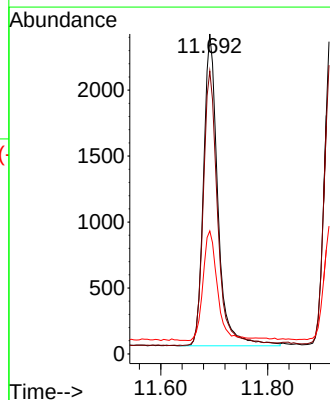
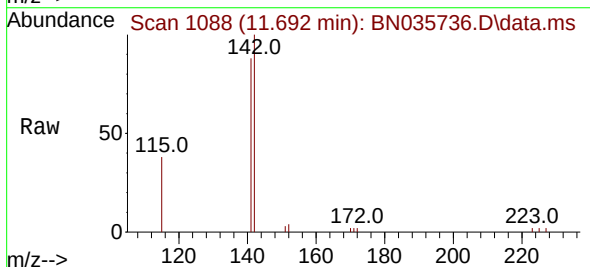
Tgt Ion:142 Resp: 4392

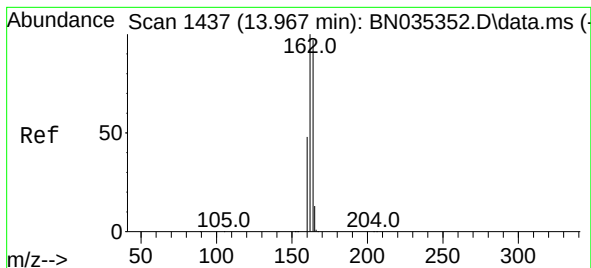
Ion Ratio Lower Upper

142 100

141 88.4 72.2 108.4

115 38.5 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

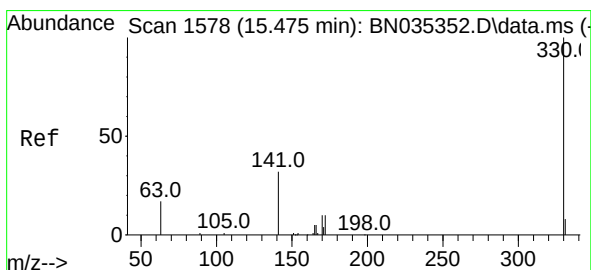
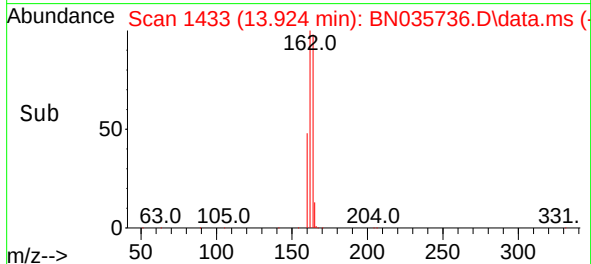
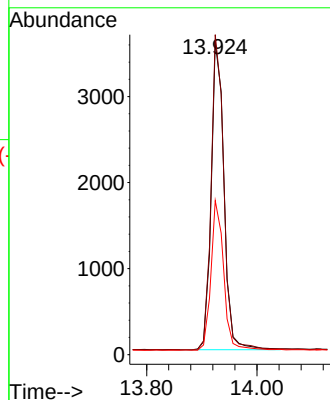
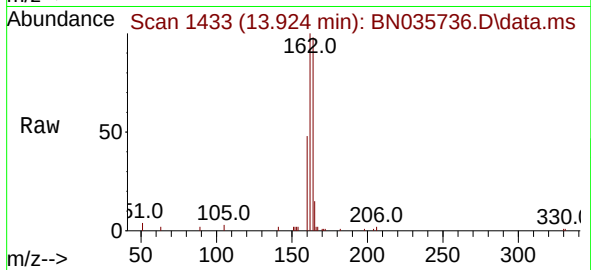
Tgt Ion:164 Resp: 5773

Ion Ratio Lower Upper

164 100

162 102.4 82.2 123.2

160 49.3 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.184 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

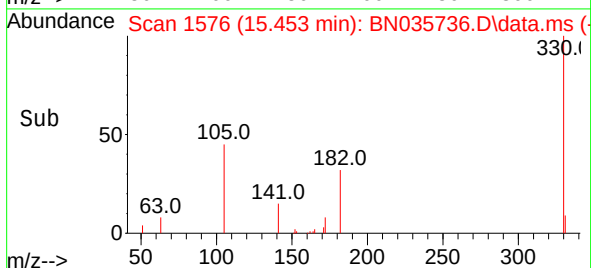
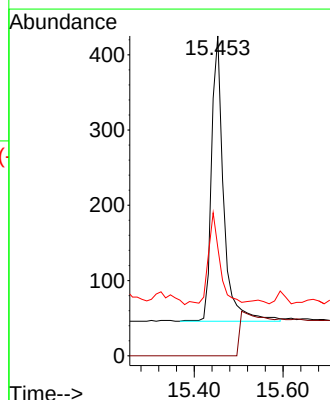
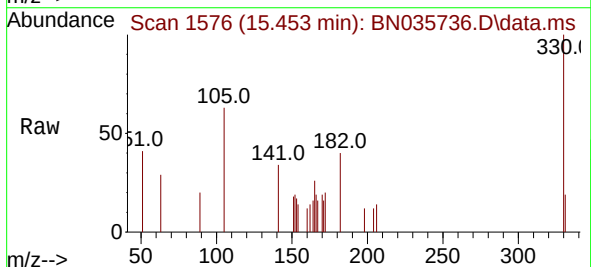
Tgt Ion:330 Resp: 754

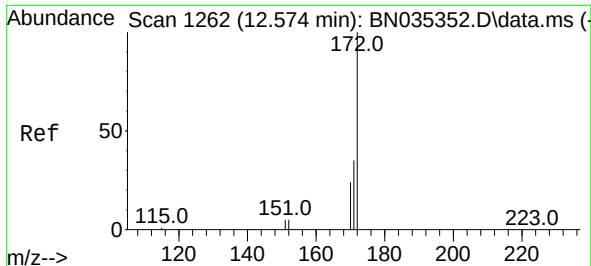
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 28.5 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.276 ng

RT: 12.538 min Scan# 1406

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

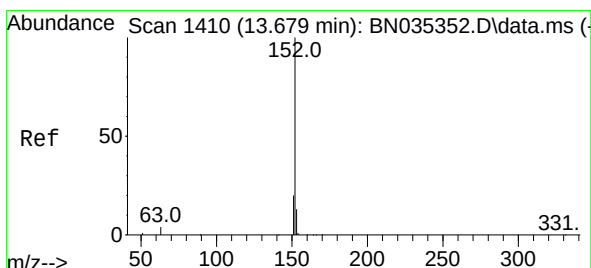
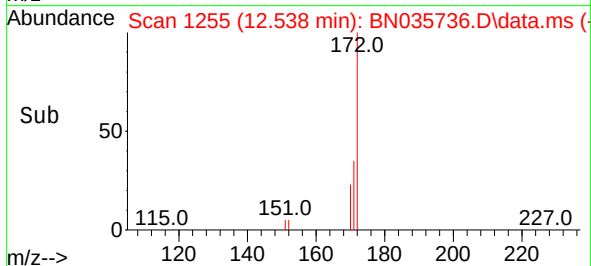
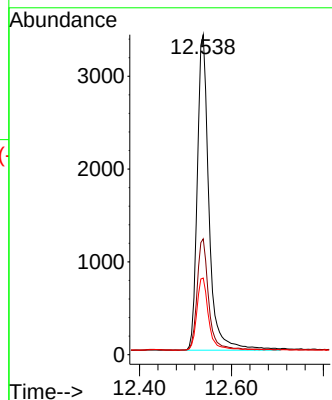
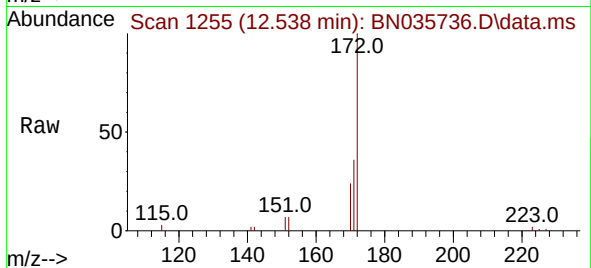
Tgt Ion:172 Resp: 6026

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

170 24.0 19.8 29.8



#16

Acenaphthylene

Concen: 0.303 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

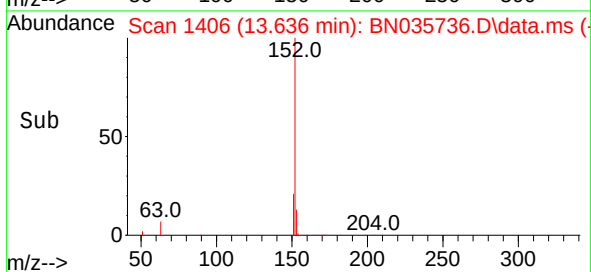
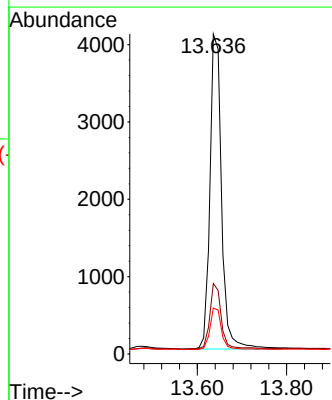
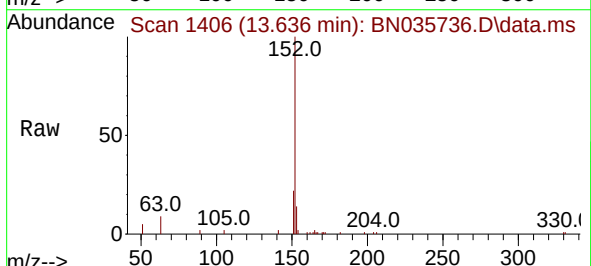
Tgt Ion:152 Resp: 7346

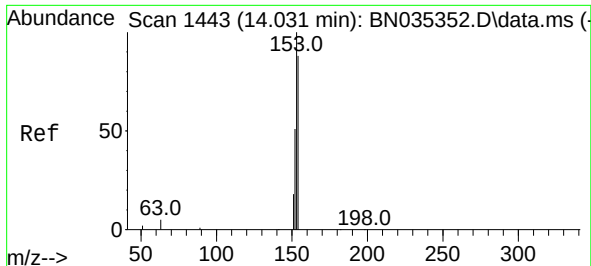
Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.2

153 13.0 10.4 15.6

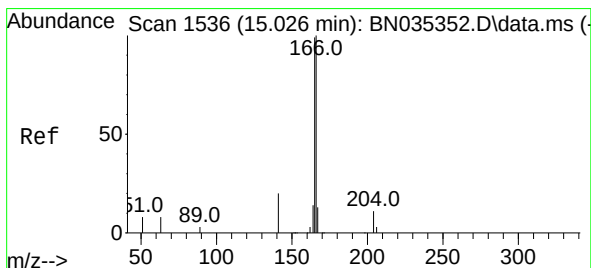
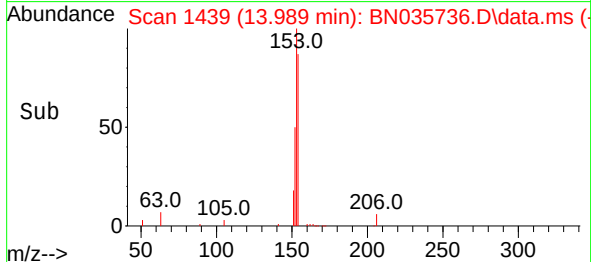
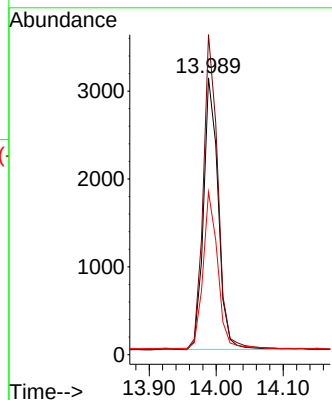
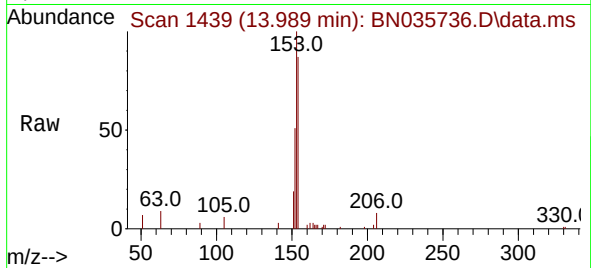




#17
Acenaphthene
Concen: 0.291 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

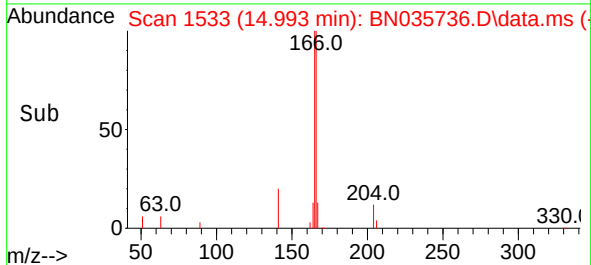
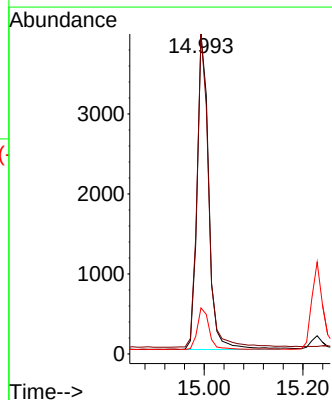
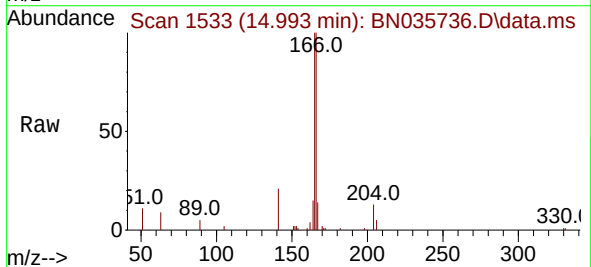
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

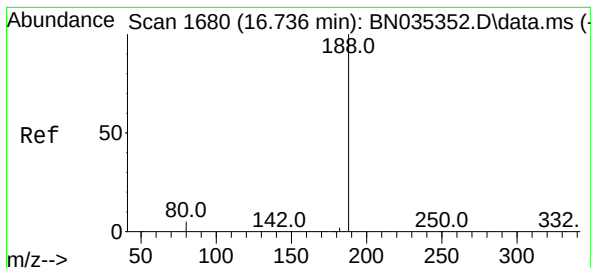
Tgt Ion:154 Resp: 4688
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 58.3 49.0 73.6



#18
Fluorene
Concen: 0.279 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:166 Resp: 6437
Ion Ratio Lower Upper
166 100
165 98.6 79.7 119.5
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

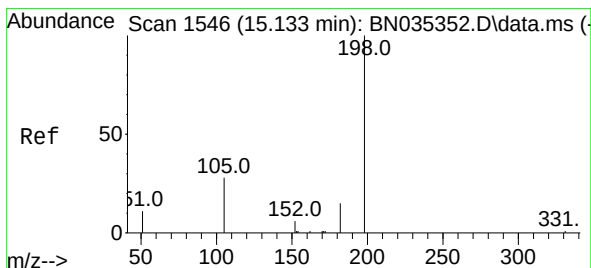
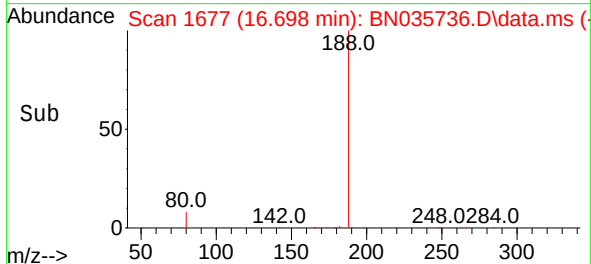
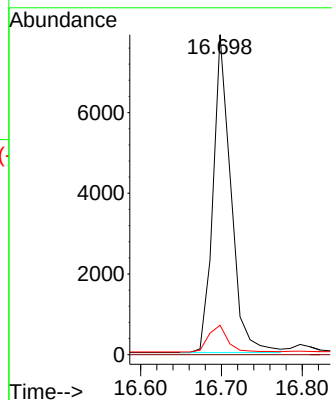
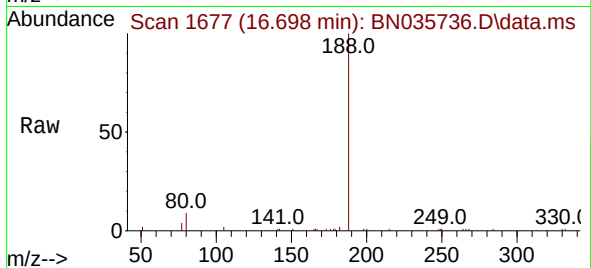
Tgt Ion:188 Resp: 12117

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.118 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

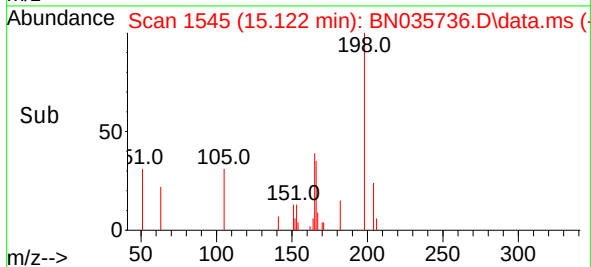
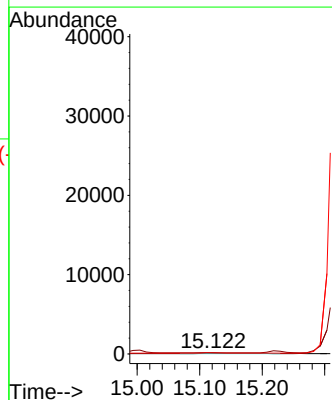
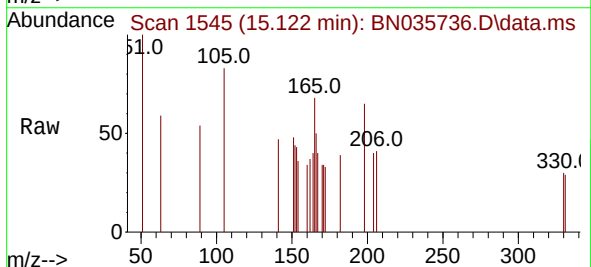
Tgt Ion:198 Resp: 141

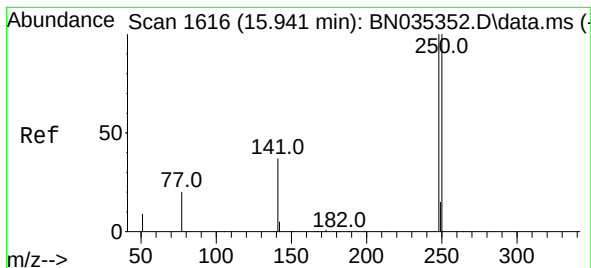
Ion Ratio Lower Upper

198 100

51 153.5 46.5 69.7#

105 127.7 45.3 67.9#

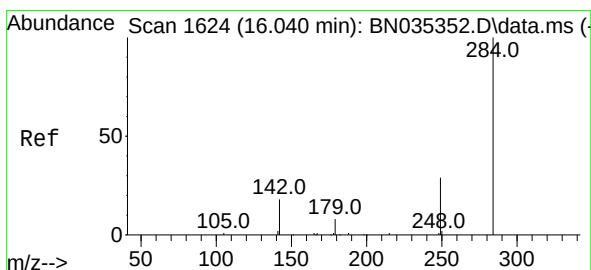
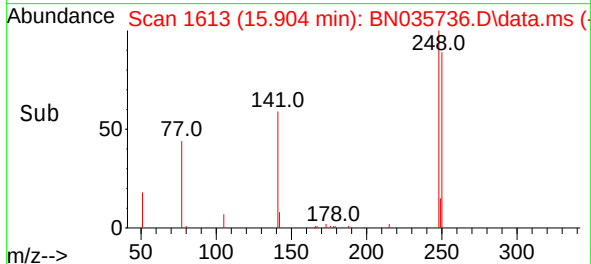
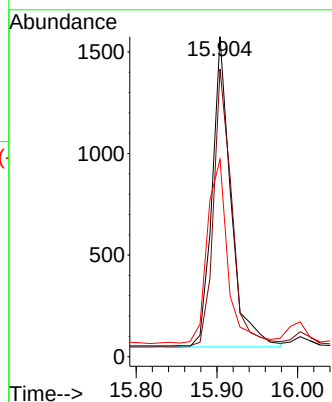
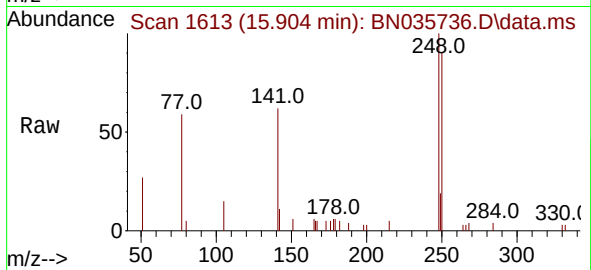




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

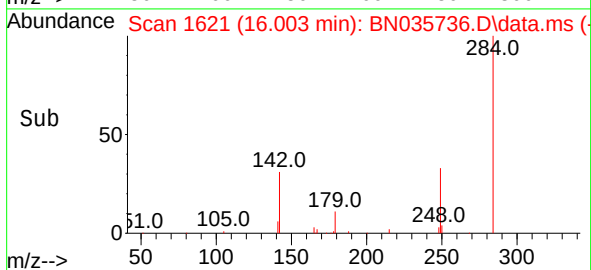
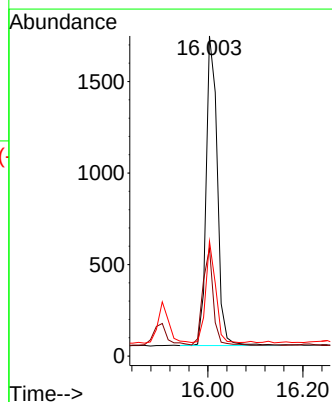
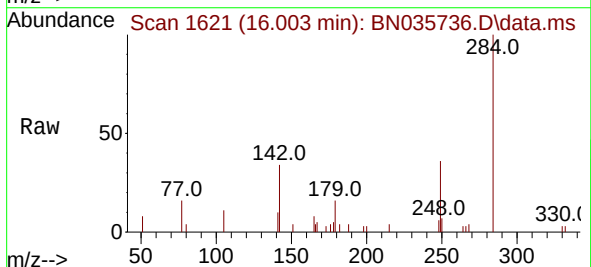
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

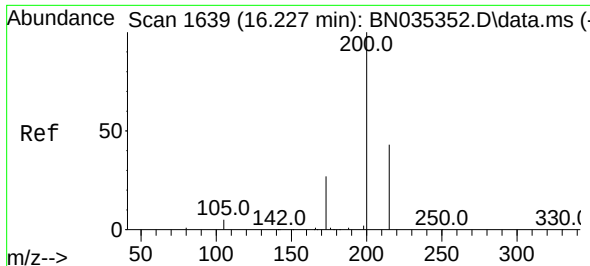
Tgt Ion:248 Resp: 2466
Ion Ratio Lower Upper
248 100
250 89.9 80.6 120.8
141 61.7 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.333 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:284 Resp: 2768
Ion Ratio Lower Upper
284 100
142 29.3 26.7 40.1
249 29.0 24.6 36.8

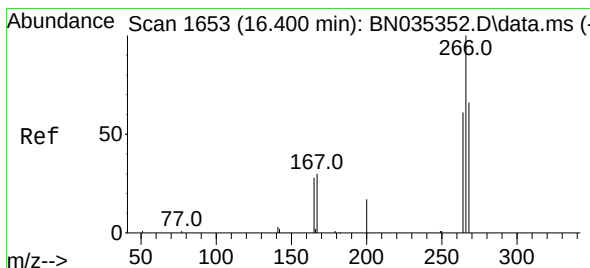
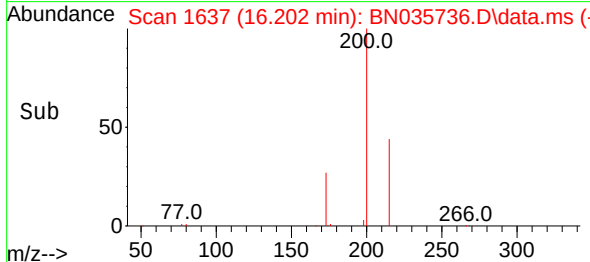
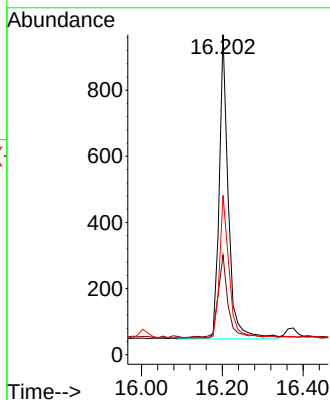
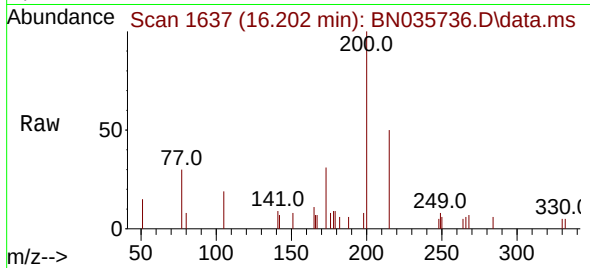




#23
Atrazine
Concen: 0.286 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

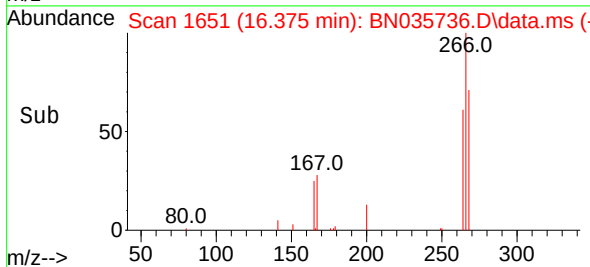
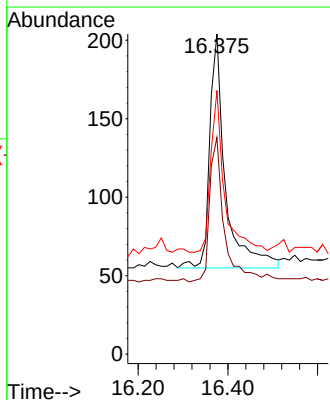
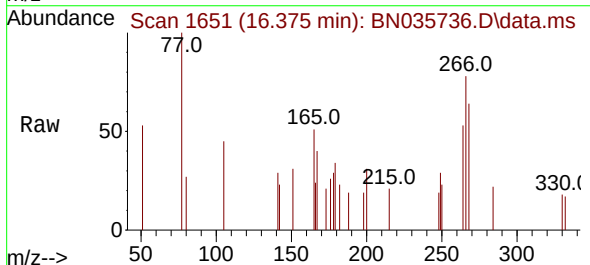
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

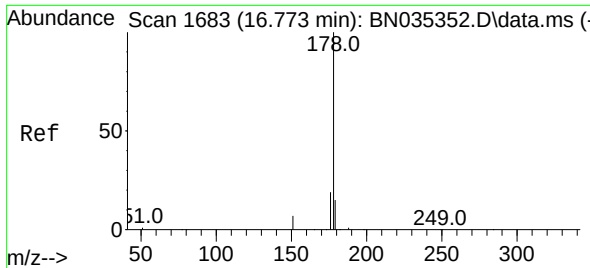
Tgt Ion:200 Resp: 1444
Ion Ratio Lower Upper
200 100
173 31.1 24.1 36.1
215 49.8 36.9 55.3



#24
Pentachlorophenol
Concen: 0.100 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:266 Resp: 361
Ion Ratio Lower Upper
266 100
264 58.7 42.3 63.5
268 59.8 43.3 64.9

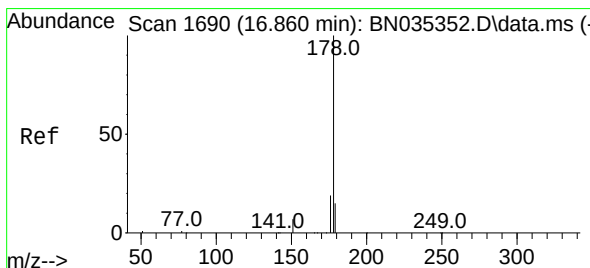
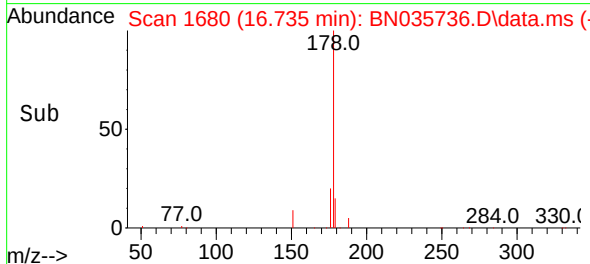
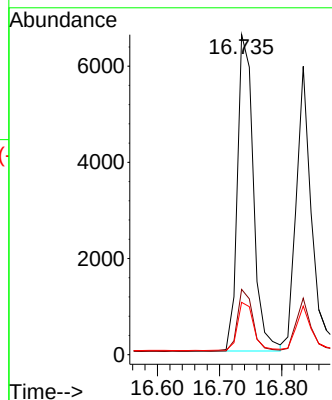
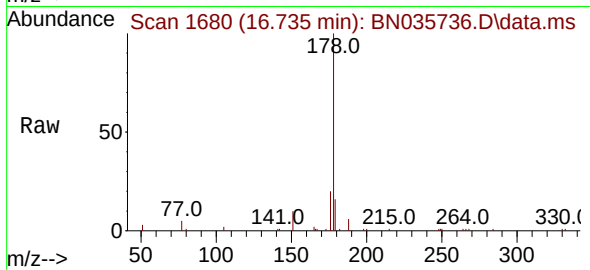




#25
Phenanthrene
Concen: 0.354 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

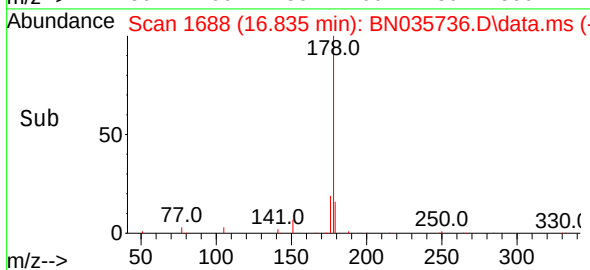
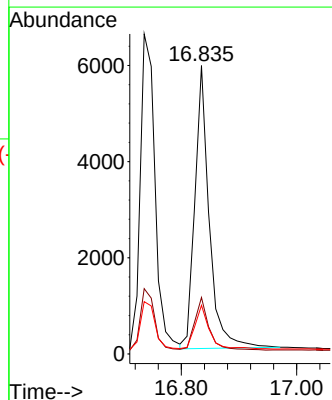
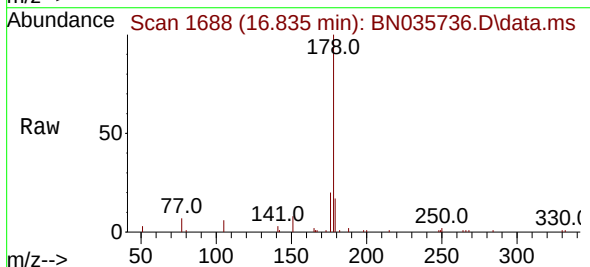
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

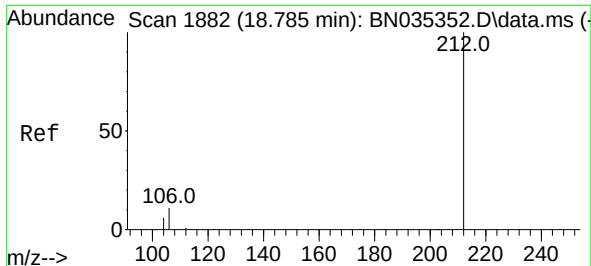
Tgt Ion:178 Resp: 11782
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.338 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:178 Resp: 10189
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.9 12.6 18.8

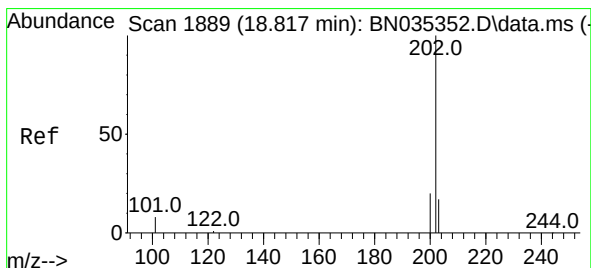
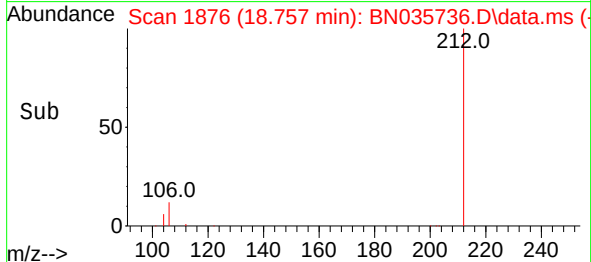
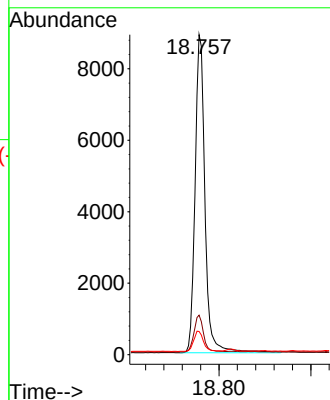
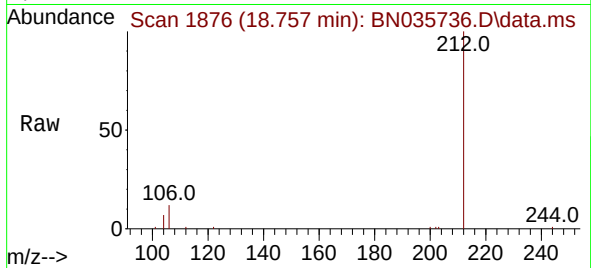




#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

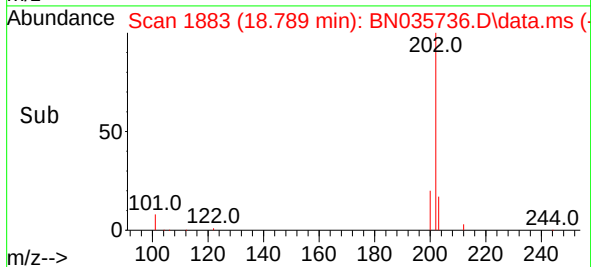
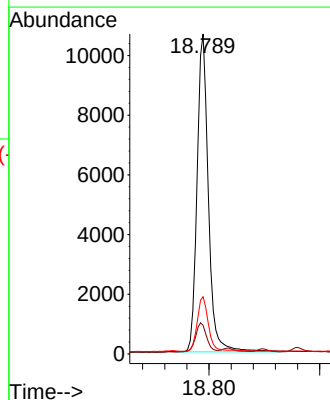
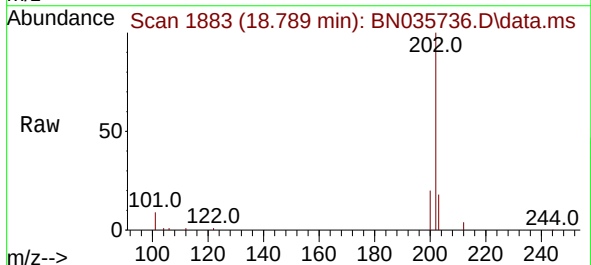
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

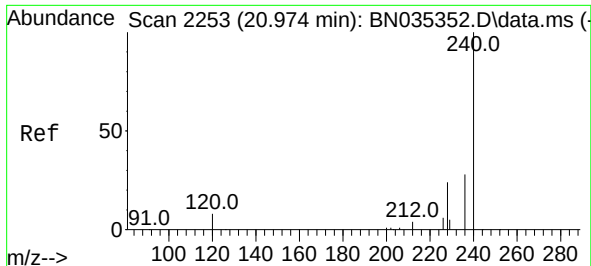
Tgt Ion:212 Resp: 13288
Ion Ratio Lower Upper
212 100
106 11.1 9.2 13.8
104 6.3 5.3 7.9



#28
Fluoranthene
Concen: 0.339 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:202 Resp: 15192
Ion Ratio Lower Upper
202 100
101 8.9 7.4 11.0
203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

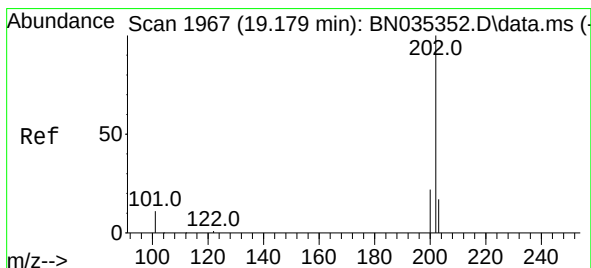
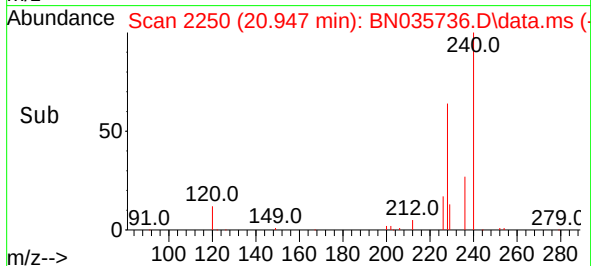
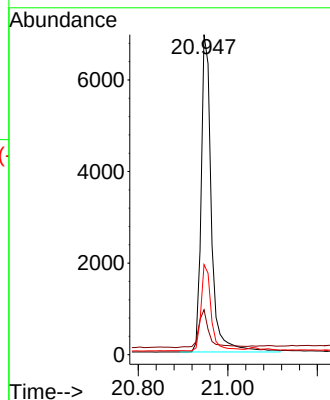
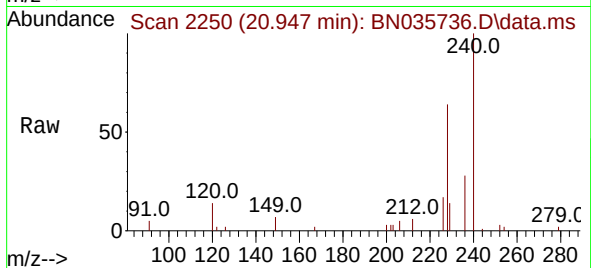
Tgt Ion:240 Resp: 11029

Ion Ratio Lower Upper

240 100

120 14.0 7.9 11.9#

236 28.1 22.9 34.3



#30

Pyrene

Concen: 0.391 ng

RT: 19.156 min Scan# 1962

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

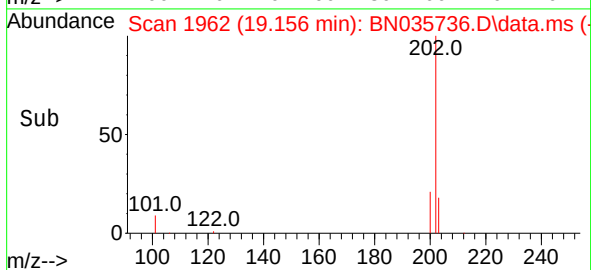
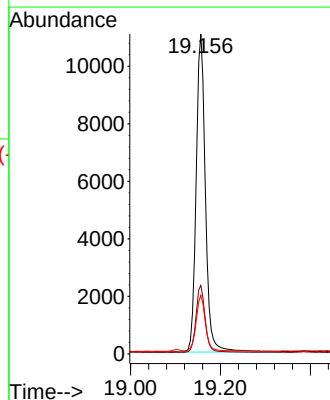
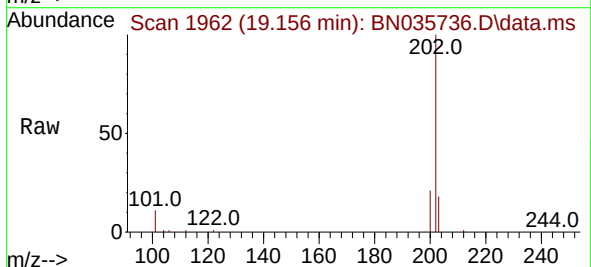
Tgt Ion:202 Resp: 15901

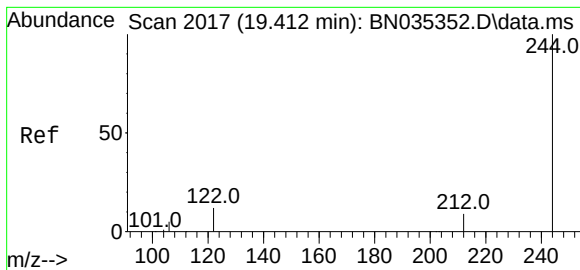
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 17.2 14.3 21.5





#31

Terphenyl-d14

Concen: 0.486 ng

RT: 19.388 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD

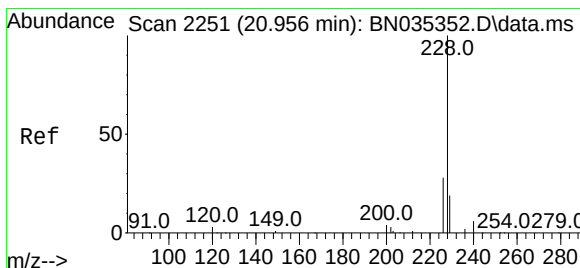
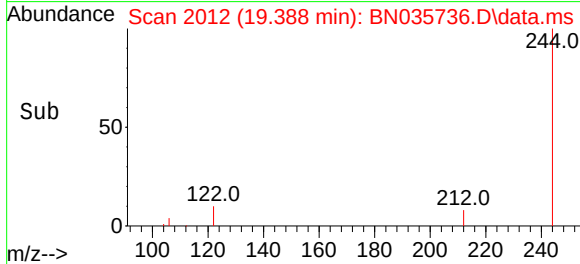
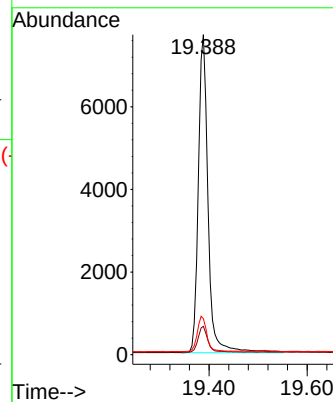
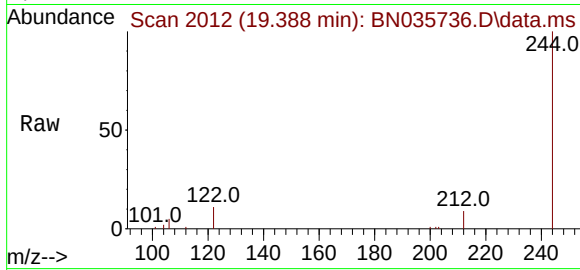
Tgt Ion:244 Resp: 10572

Ion Ratio Lower Upper

244 100

212 8.9 8.1 12.1

122 11.3 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.350 ng

RT: 20.938 min Scan# 2249

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

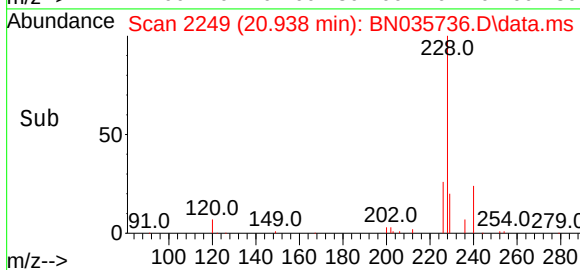
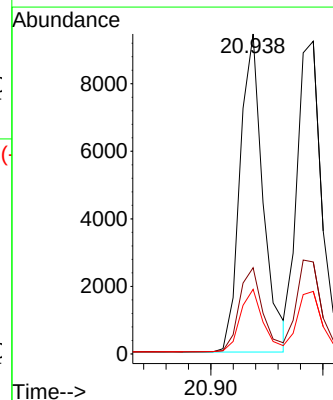
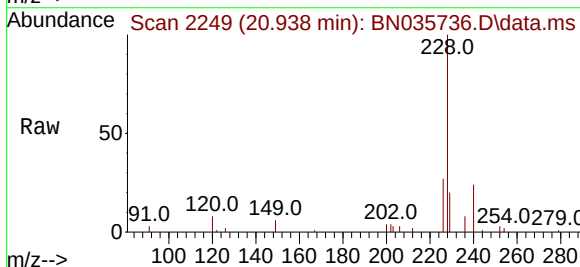
Tgt Ion:228 Resp: 13511

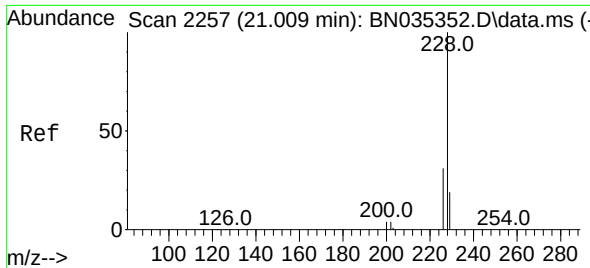
Ion Ratio Lower Upper

228 100

226 26.9 22.5 33.7

229 20.2 15.8 23.8

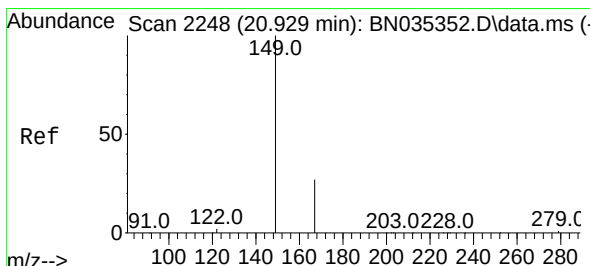
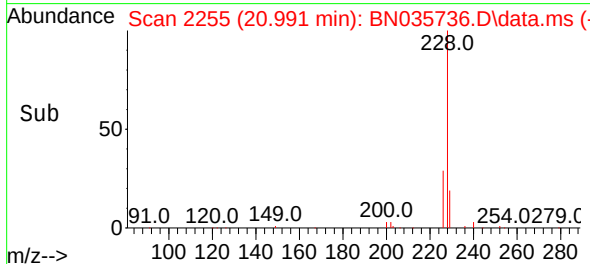
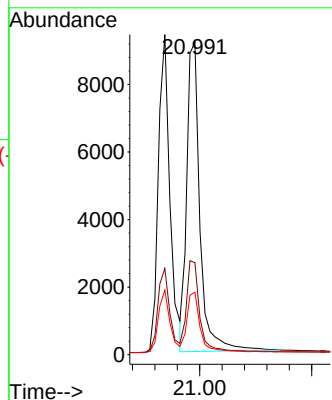
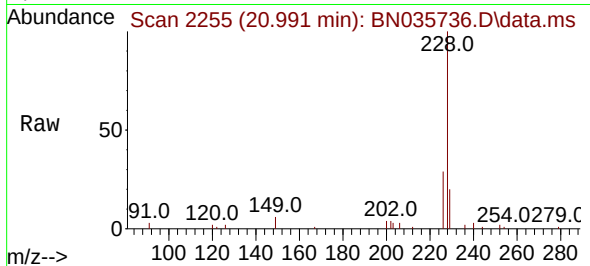




#33
Chrysene
Concen: 0.377 ng
RT: 20.991 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

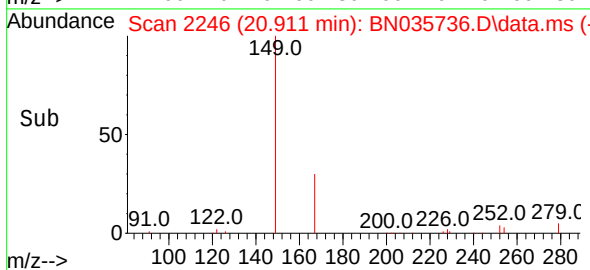
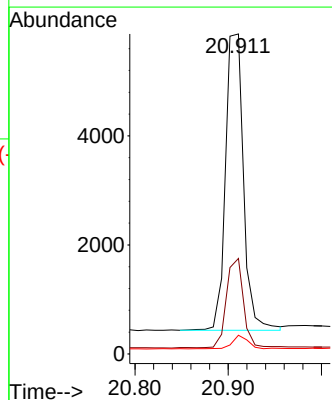
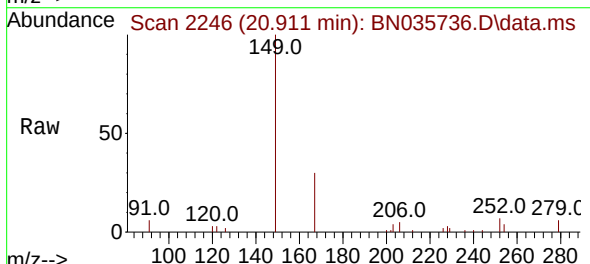
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

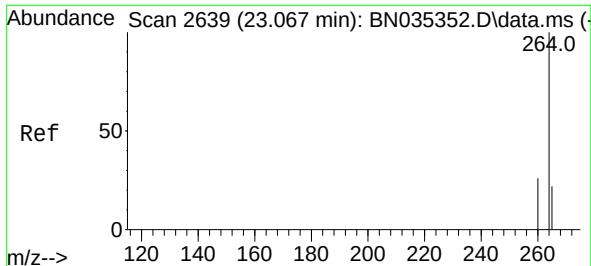
Tgt Ion:228 Resp: 15009
Ion Ratio Lower Upper
228 100
226 29.4 24.6 37.0
229 20.0 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.478 ng
RT: 20.911 min Scan# 2246
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:149 Resp: 7279
Ion Ratio Lower Upper
149 100
167 28.2 22.2 33.4
279 4.2 2.7 4.1#



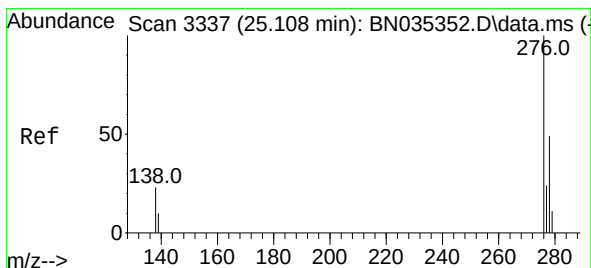
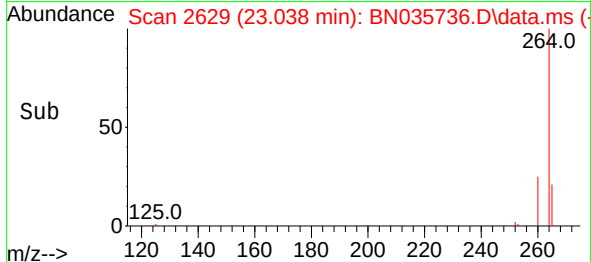
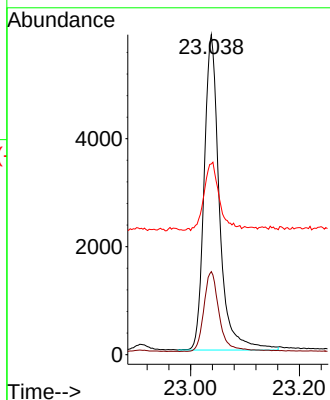
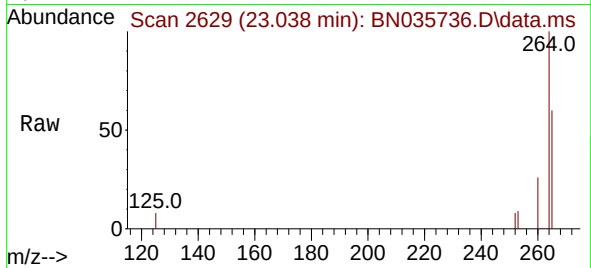


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD

Tgt Ion:264 Resp: 11370

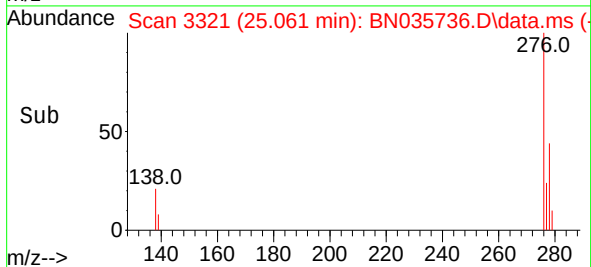
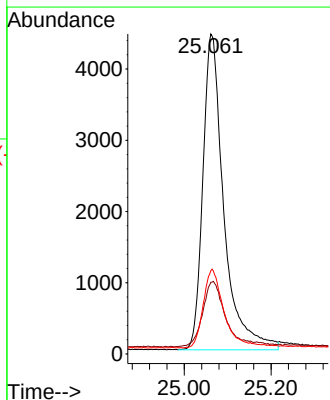
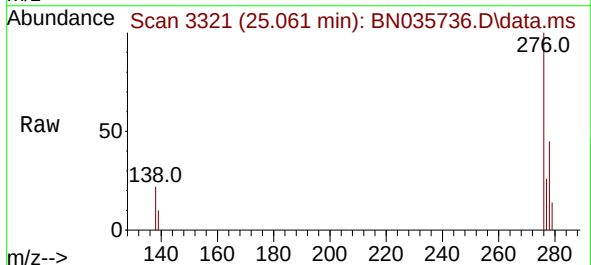
Ion	Ratio	Lower	Upper
264	100		
260	25.9	21.4	32.2
265	59.6	40.2	60.4

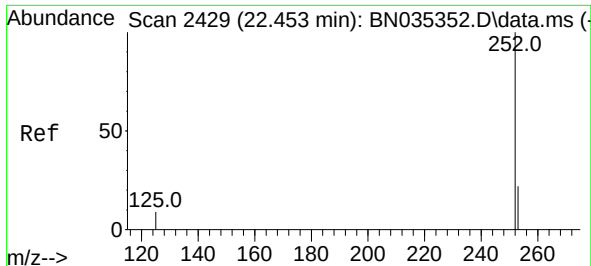


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

Tgt Ion:276 Resp: 14877

Ion	Ratio	Lower	Upper
276	100		
138	22.3	19.4	29.0
277	24.7	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.516 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035736.D

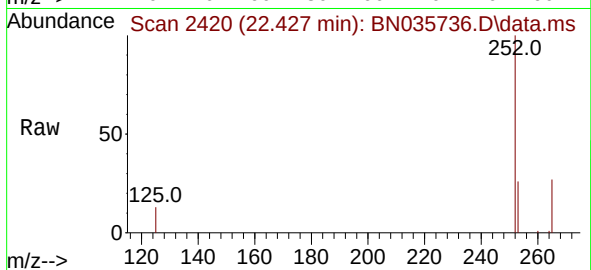
Acq: 20 Dec 2024 11:41

Instrument :

BNA_N

ClientSampleId :

BPOW6-11-20241212MSD



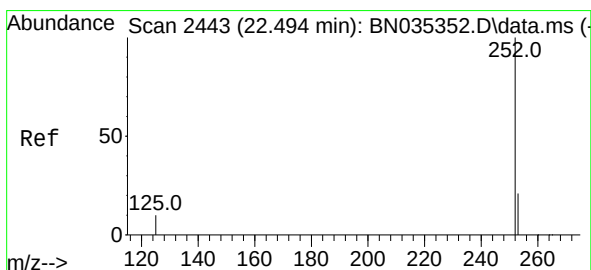
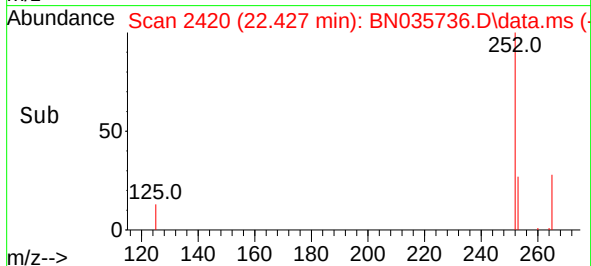
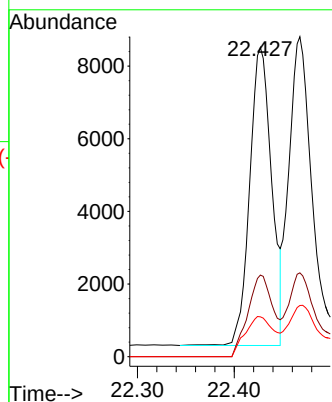
Tgt Ion:252 Resp: 21467

Ion Ratio Lower Upper

252 100

253 26.4 19.6 29.4

125 12.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.524 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

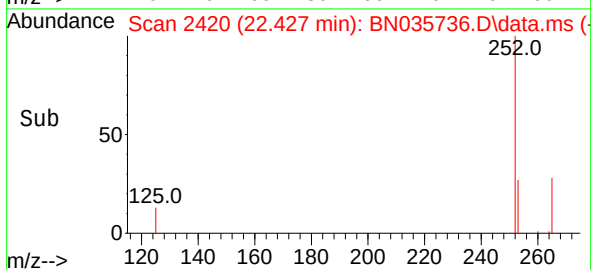
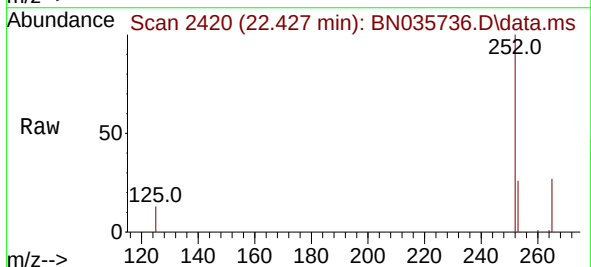
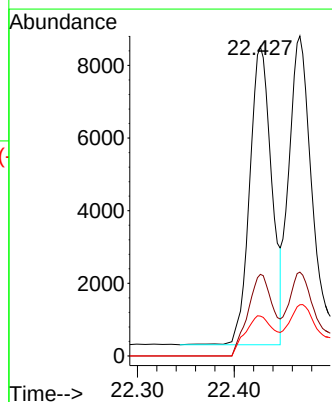
Tgt Ion:252 Resp: 21467

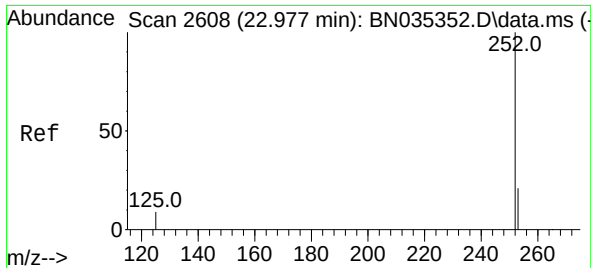
Ion Ratio Lower Upper

252 100

253 26.4 19.5 29.3

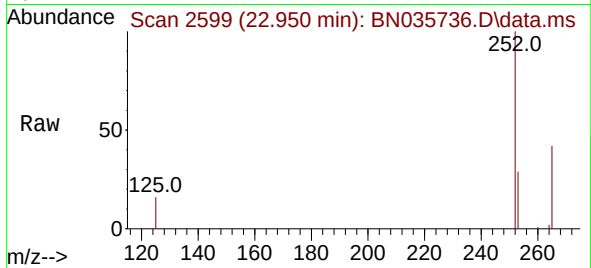
125 12.9 10.2 15.4



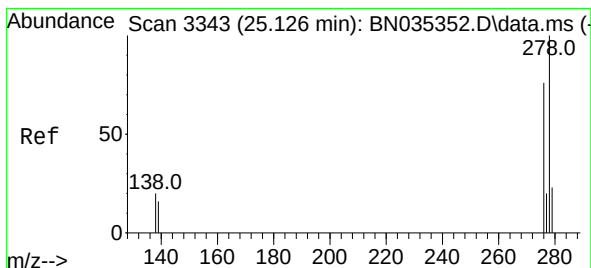
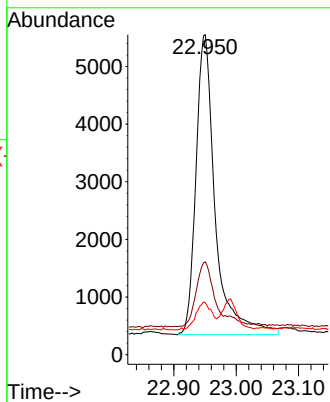
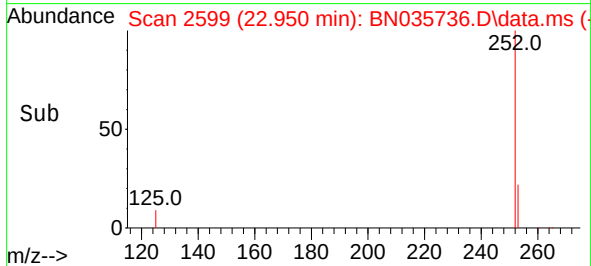


#39
Benzo(a)pyrene
Concen: 0.326 ng
RT: 22.950 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41

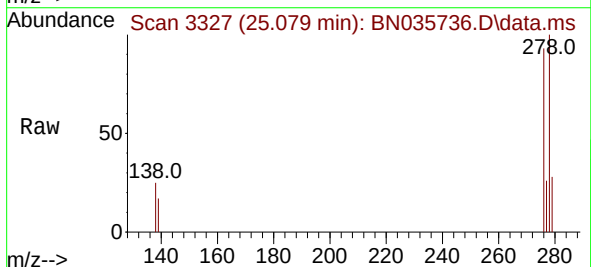
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241212MSD



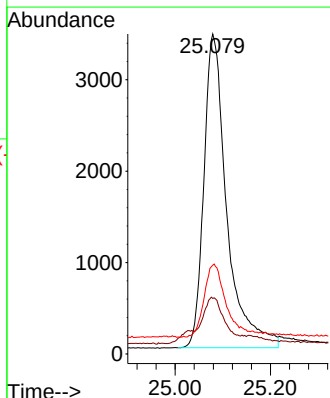
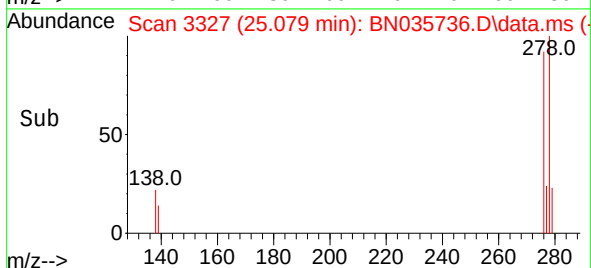
Tgt Ion:252 Resp: 11175
Ion Ratio Lower Upper
252 100
253 29.1 20.2 30.4
125 16.3 10.9 16.3

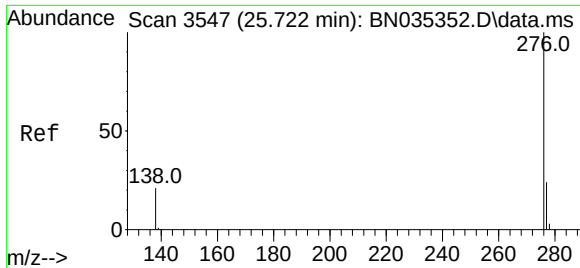


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035736.D
Acq: 20 Dec 2024 11:41



Tgt Ion:278 Resp: 11466
Ion Ratio Lower Upper
278 100
139 17.3 14.2 21.4
279 27.7 20.5 30.7

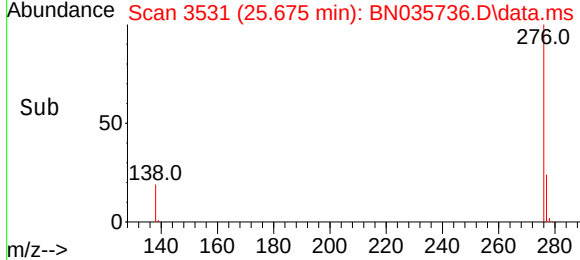
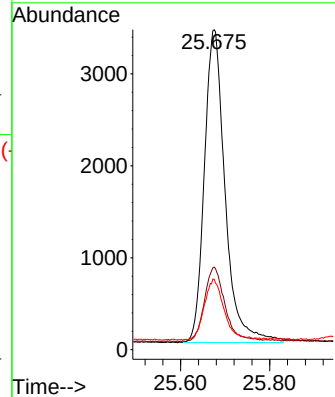
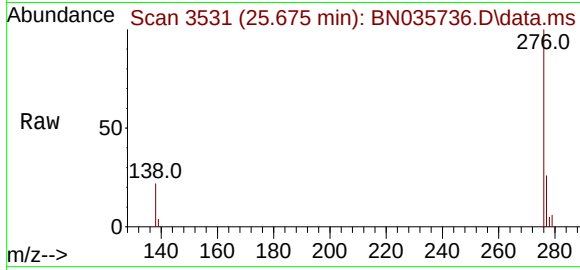




#41
 Benzo(g,h,i)perylene
 Concen: 0.301 ng
 RT: 25.675 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: BN035736.D
 Acq: 20 Dec 2024 11:41

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-11-20241212MSD

Tgt Ion:	276	Resp:	11017
Ion Ratio	Lower	Upper	
276	100		
277	25.8	19.9	29.9
138	22.0	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035747.D
 Acq On : 20 Dec 2024 18:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 21 01:42:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

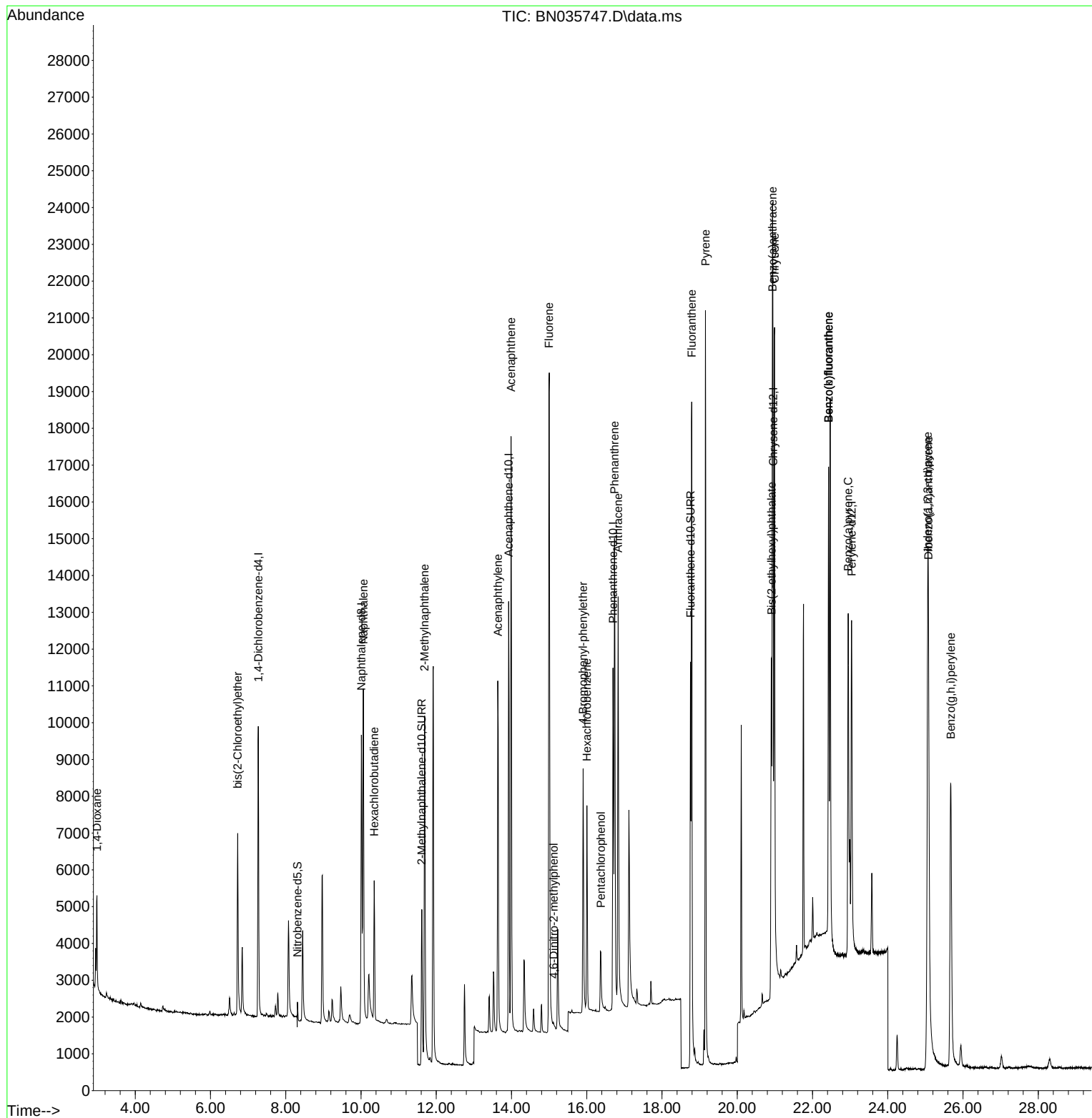
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	4145	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11402	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	7019	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	13951	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	11878	0.400	ng	0.00
35) Perylene-d12	23.038	264	12200	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	10	0.001	ng	-0.01
5) Phenol-d6	6.484	99	102	0.008	ng	0.00
8) Nitrobenzene-d5	8.312	82	427	0.061	ng	-0.10
11) 2-Methylnaphthalene-d10	11.616	152	7049	0.395	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	9	0.002	ng	-0.01
15) 2-Fluorobiphenyl	12.544	172	12	0.000	ng	0.00
27) Fluoranthene-d10	18.757	212	14421	0.365	ng	0.00
31) Terphenyl-d14	19.393	244	35	0.001	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.982	88	1859	0.469	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	4332	0.413	ng	98
9) Naphthalene	10.063	128	12423	0.413	ng	99
10) Hexachlorobutadiene	10.351	225	3142	0.453	ng	# 99
12) 2-Methylnaphthalene	11.692	142	8345	0.388	ng	99
16) Acenaphthylene	13.636	152	11936	0.405	ng	100
17) Acenaphthene	13.989	154	8162	0.417	ng	98
18) Fluorene	14.993	166	10307	0.368	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	168	0.122	ng	# 3
21) 4-Bromophenyl-phenylether	15.904	248	3188	0.391	ng	# 83
22) Hexachlorobenzene	16.003	284	4408	0.460	ng	97
24) Pentachlorophenol	16.376	266	1329	0.319	ng	86
25) Phenanthrene	16.735	178	15452	0.403	ng	100
26) Anthracene	16.835	178	14156	0.408	ng	99
28) Fluoranthene	18.789	202	18255	0.353	ng	100
30) Pyrene	19.156	202	19874	0.453	ng	100
32) Benzo(a)anthracene	20.938	228	16354	0.394	ng	99
33) Chrysene	20.991	228	18340	0.428	ng	98
34) Bis(2-ethylhexyl)phtha...	20.911	149	7490	0.456	ng	98
36) Indeno(1,2,3-cd)pyrene	25.061	276	21102	0.442	ng	99
37) Benzo(b)fluoranthene	22.427	252	21982	0.493	ng	99
38) Benzo(k)fluoranthene	22.427	252	21982	0.500	ng	99
39) Benzo(a)pyrene	22.947	252	15636	0.425	ng	98
40) Dibenzo(a,h)anthracene	25.082	278	15847	0.421	ng	98
41) Benzo(g,h,i)perylene	25.675	276	16995	0.432	ng	98

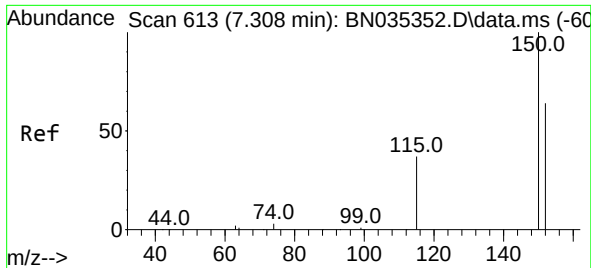
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035747.D
Acq On : 20 Dec 2024 18:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 21 01:42:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

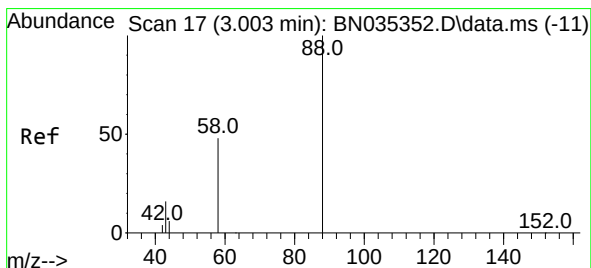
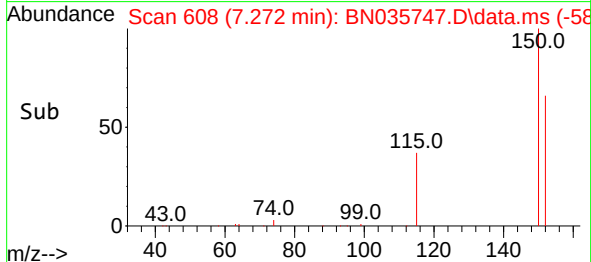
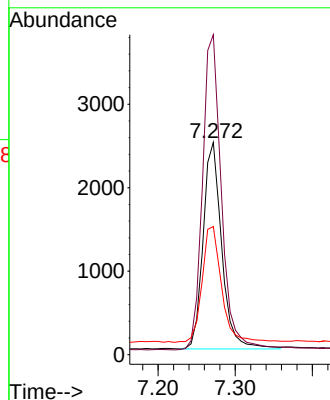
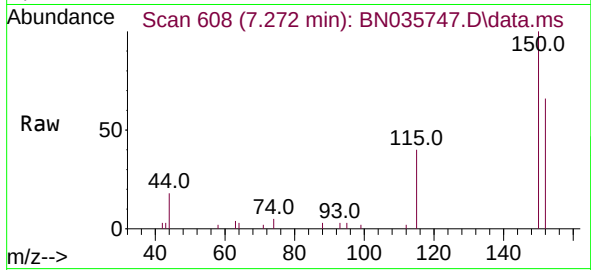




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.272 min Scan# 60
 Delta R.T. -0.000 min
 Lab File: BN035747.D
 Acq: 20 Dec 2024 18:18

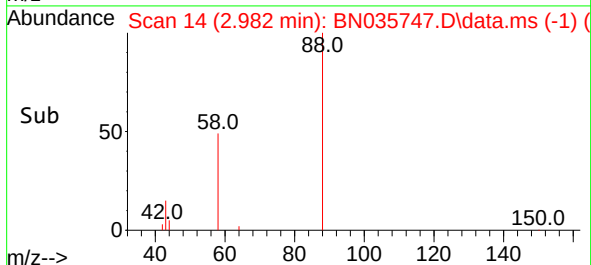
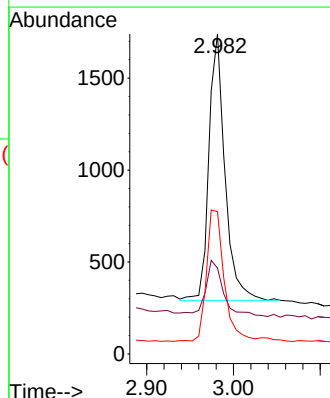
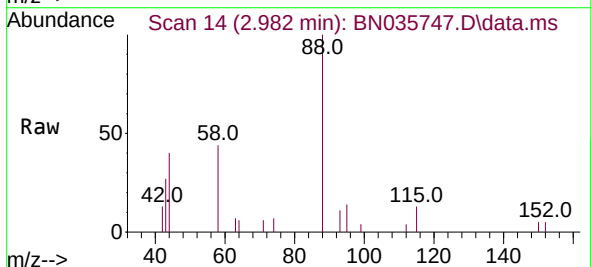
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

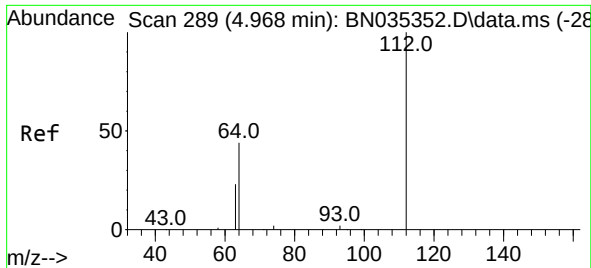
Tgt Ion:152 Resp: 4145
 Ion Ratio Lower Upper
 152 100
 150 150.8 124.0 186.0
 115 60.4 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.469 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035747.D
 Acq: 20 Dec 2024 18:18

Tgt Ion: 88 Resp: 1859
 Ion Ratio Lower Upper
 88 100
 43 23.8 17.2 25.8
 58 55.6 44.5 66.7

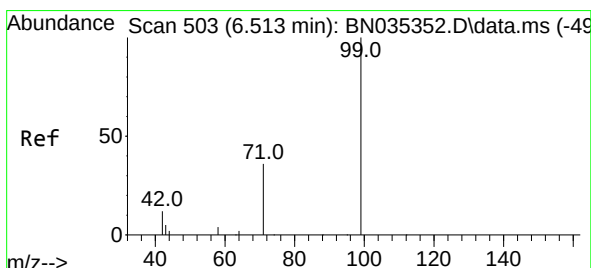
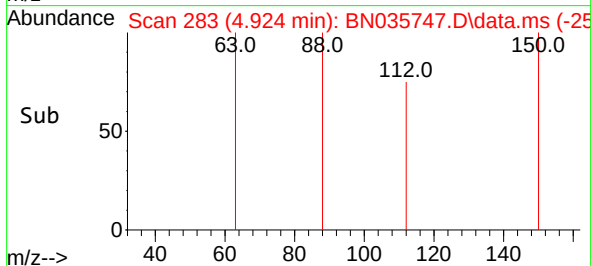
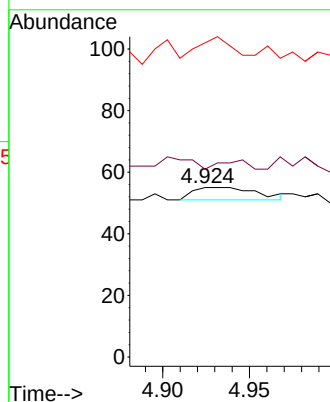
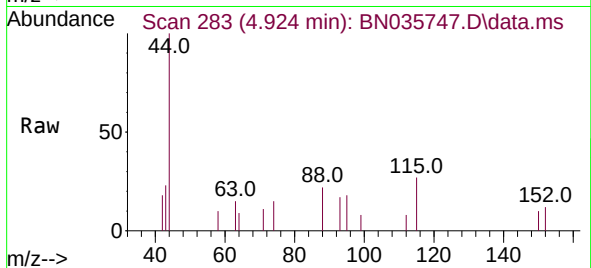




#4
2-Fluorophenol
Concen: 0.001 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

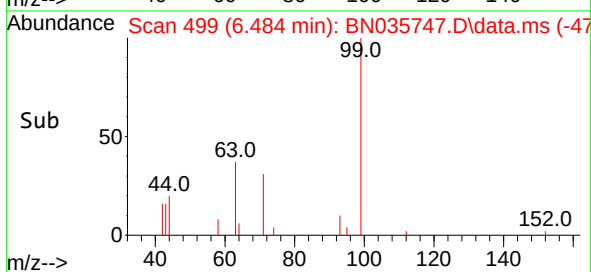
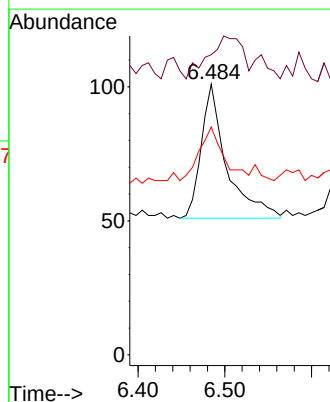
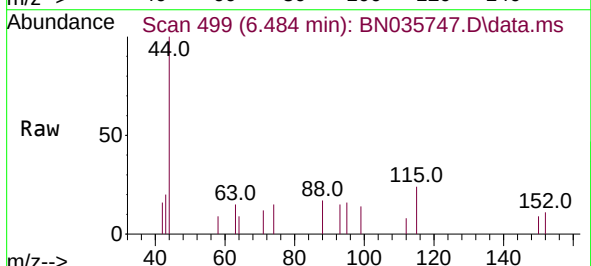
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

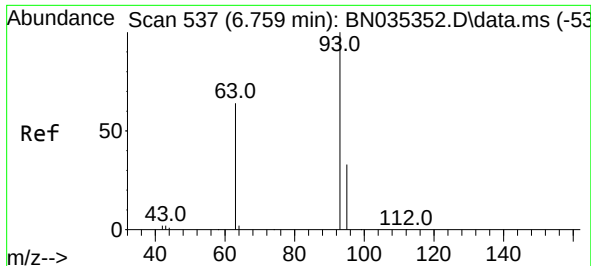
Tgt Ion:112 Resp: 10
Ion Ratio Lower Upper
112 100
64 0.0 39.8 59.8#
63 140.0 21.0 31.6#



#5
Phenol-d6
Concen: 0.008 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 99 Resp: 102
Ion Ratio Lower Upper
99 100
42 42.2 11.4 17.2#
71 39.2 29.3 43.9

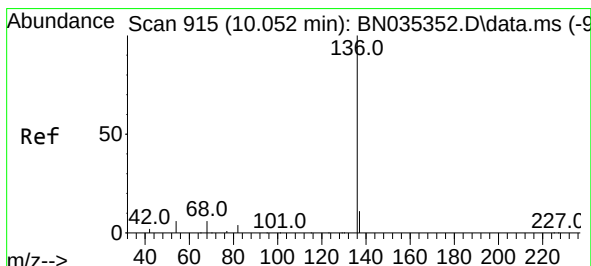
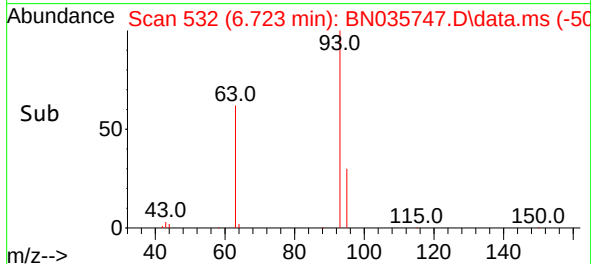
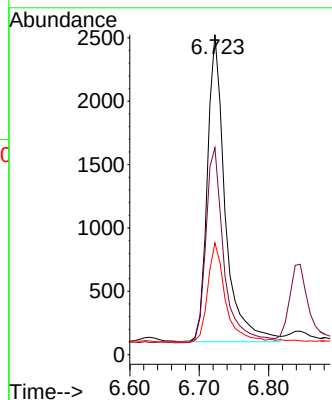
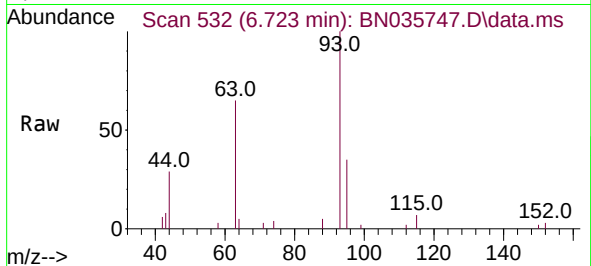




#6
bis(2-Chloroethyl)ether
Concen: 0.413 ng
RT: 6.723 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

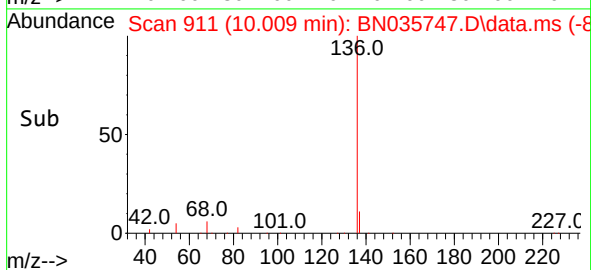
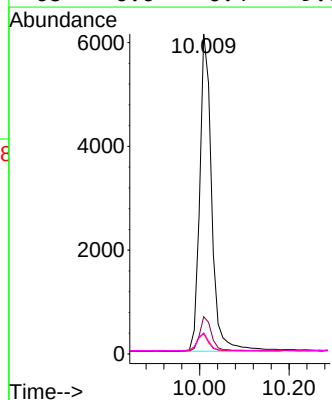
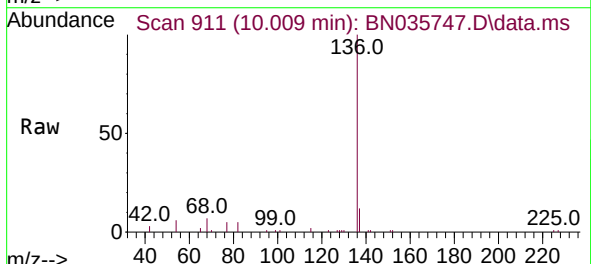
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

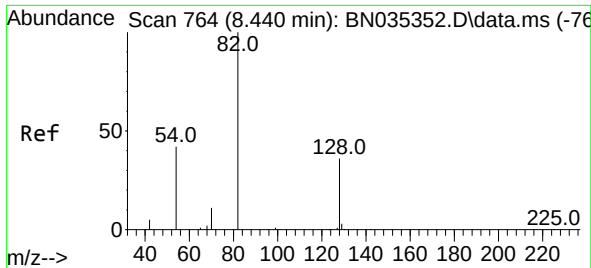
Tgt Ion: 93 Resp: 4332
Ion Ratio Lower Upper
93 100
63 64.4 50.4 75.6
95 33.6 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:136 Resp: 11402
Ion Ratio Lower Upper
136 100
137 11.7 10.2 15.2
54 6.3 6.1 9.1
68 6.6 6.4 9.6

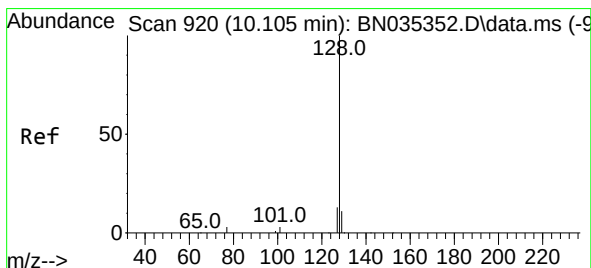
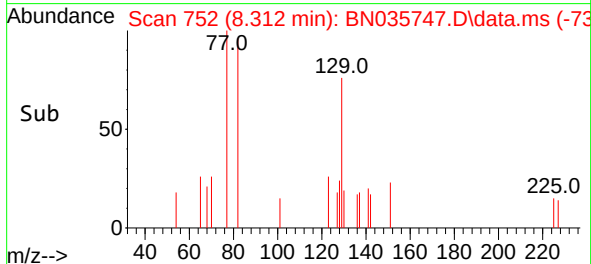
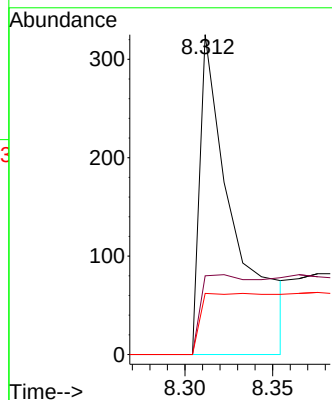
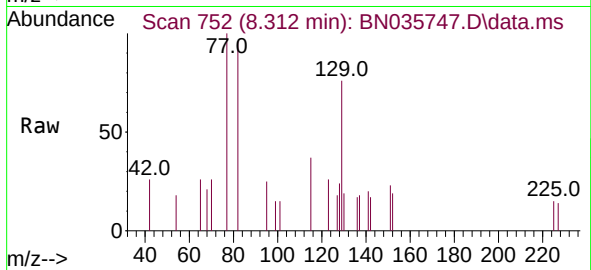




#8
Nitrobenzene-d5
Concen: 0.061 ng
RT: 8.312 min Scan# 716
Delta R.T. -0.096 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

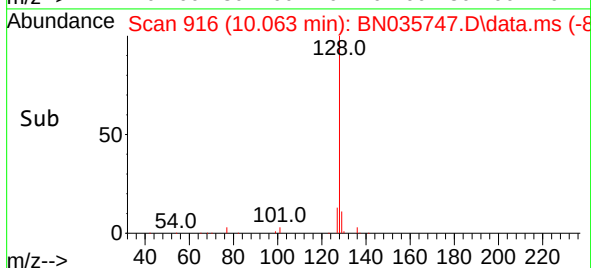
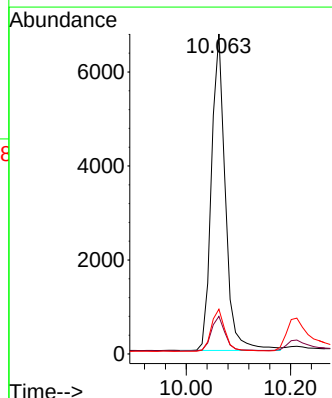
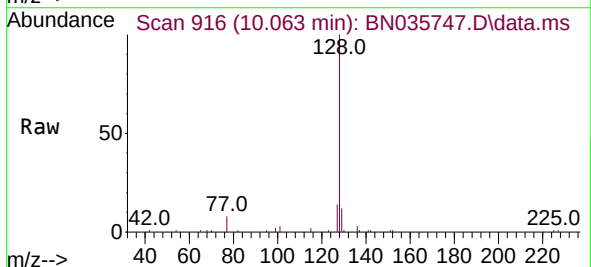
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

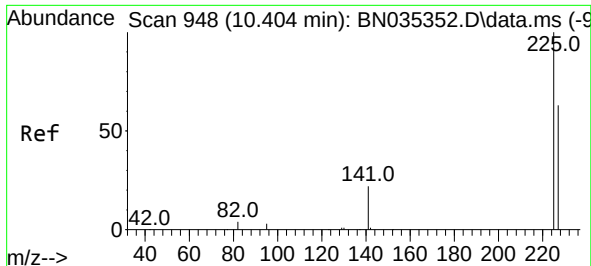
Tgt Ion: 82 Resp: 427
Ion Ratio Lower Upper
82 100
128 24.6 33.4 50.0#
54 19.1 36.7 55.1#



#9
Naphthalene
Concen: 0.413 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion: 128 Resp: 12423
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.0 11.4 17.2

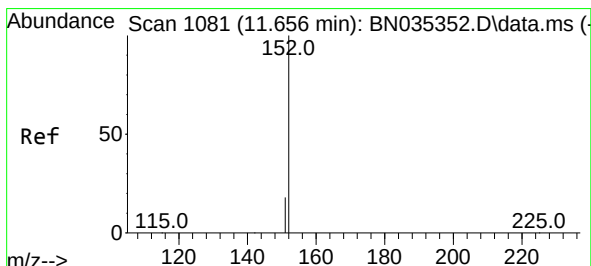
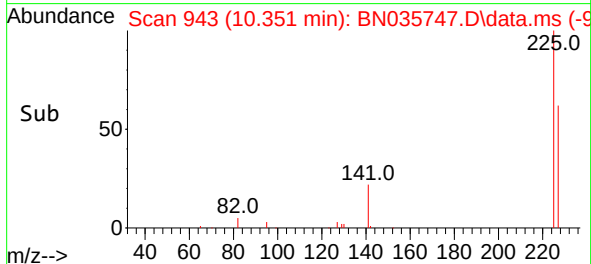
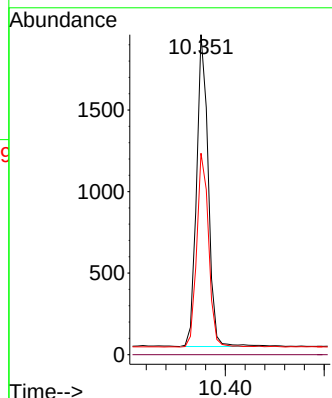
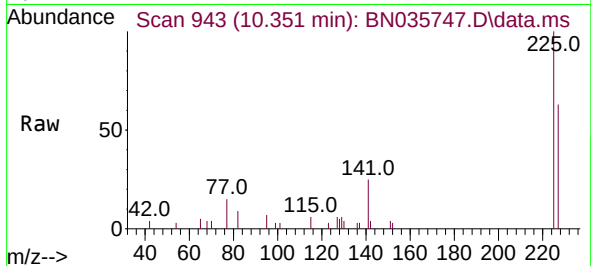




#10
Hexachlorobutadiene
Concen: 0.453 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

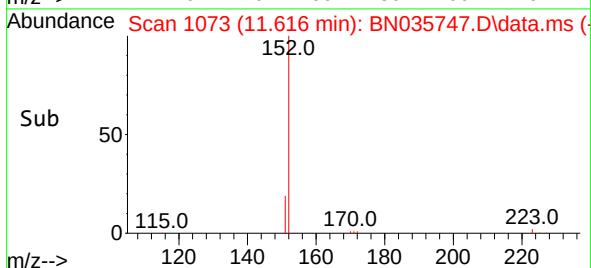
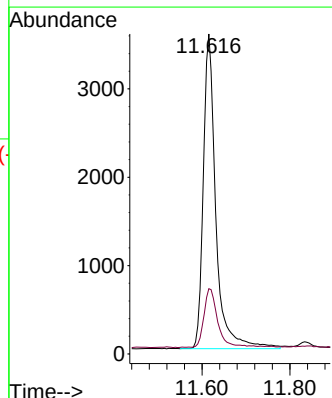
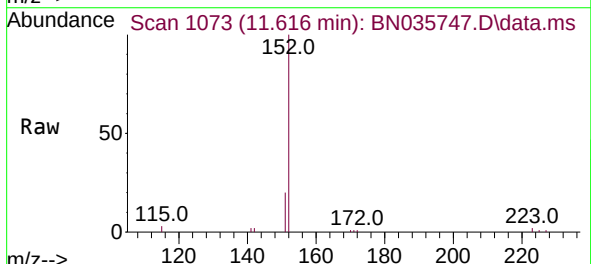
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

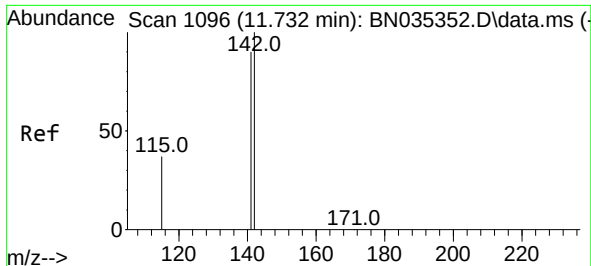
Tgt Ion:225 Resp: 3142
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 51.3 76.9



#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 7049
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

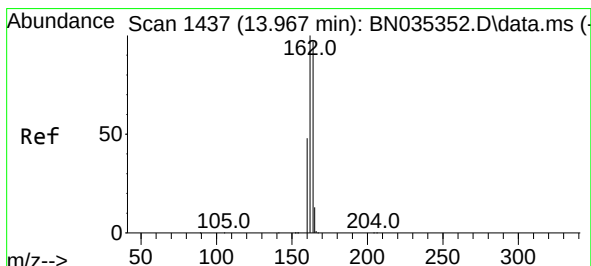
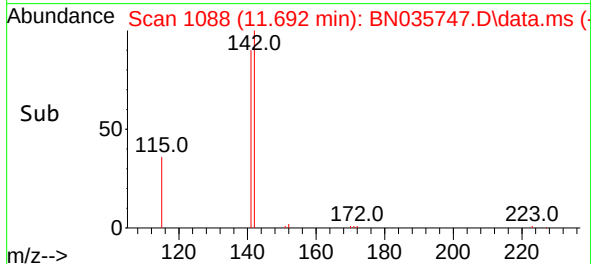
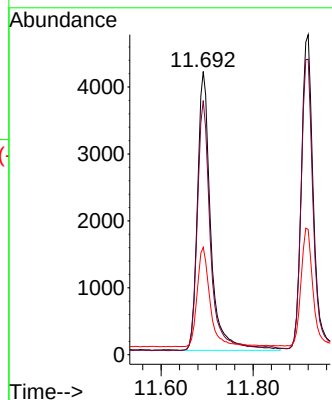
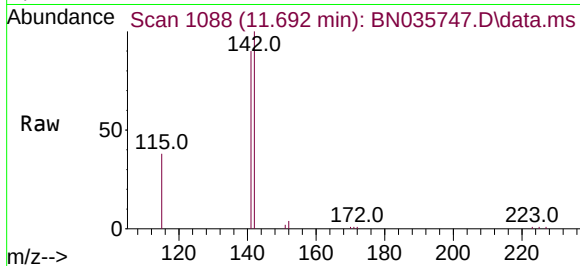




#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.692 min Scan# 1096
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

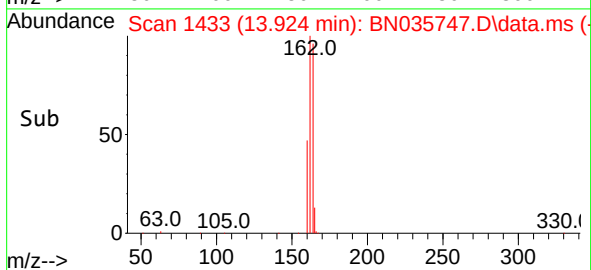
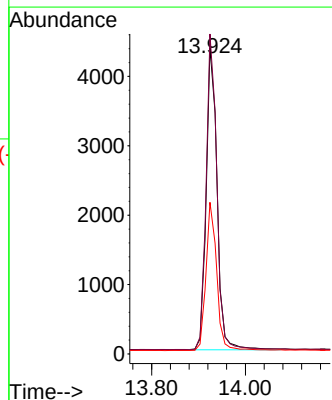
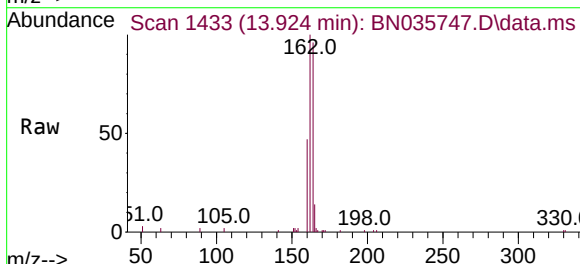
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

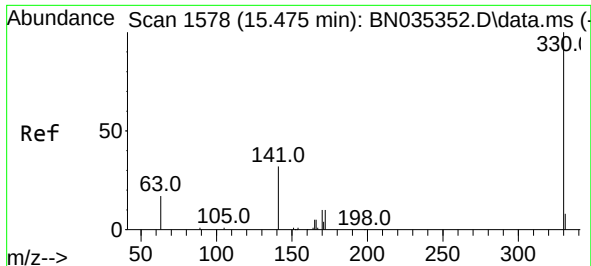
Tgt Ion:142 Resp: 8345
Ion Ratio Lower Upper
142 100
141 89.7 72.2 108.4
115 37.9 31.4 47.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:164 Resp: 7019
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 49.5 40.1 60.1

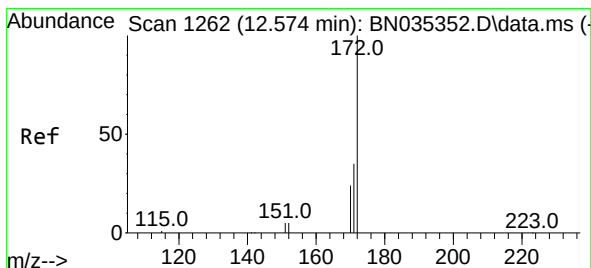
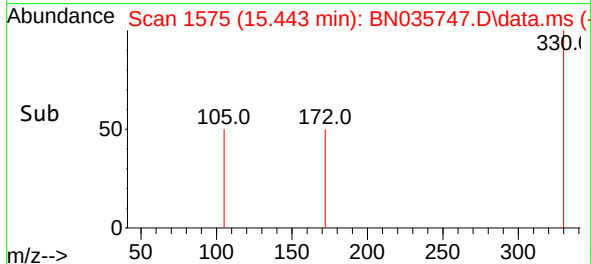
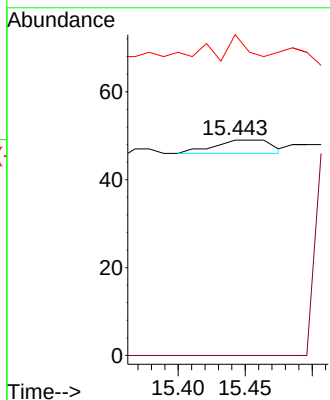
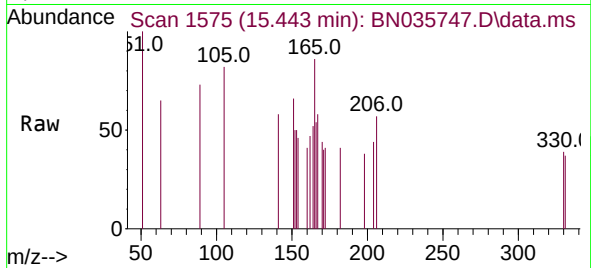




#14
2,4,6-Tribromophenol
Concen: 0.002 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

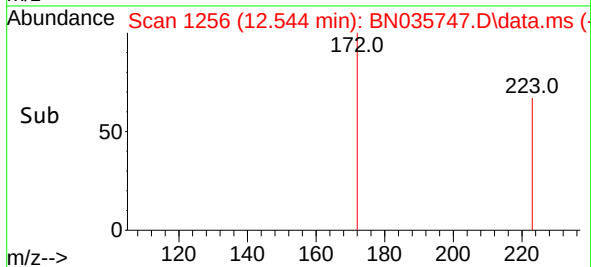
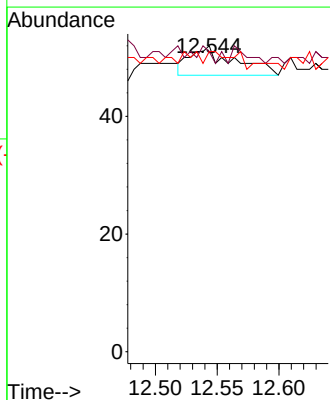
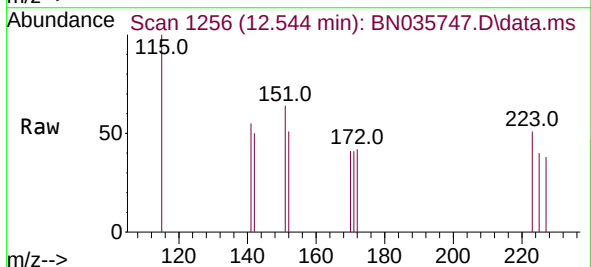
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

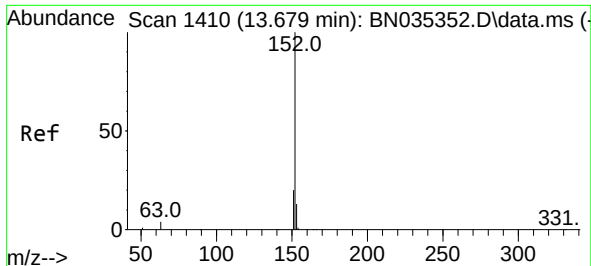
Tgt Ion:330 Resp: 9
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 77.8 26.6 40.0#



#15
2-Fluorobiphenyl
Concen: 0.000 ng
RT: 12.544 min Scan# 1256
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:172 Resp: 12
Ion Ratio Lower Upper
172 100
171 98.1 29.0 43.4#
170 98.1 19.8 29.8#

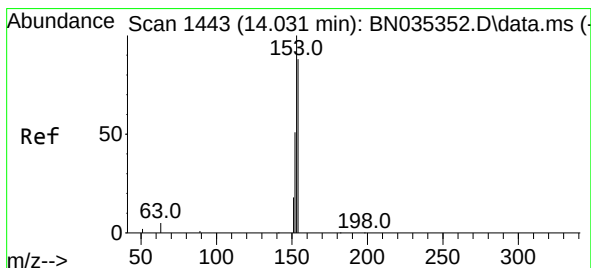
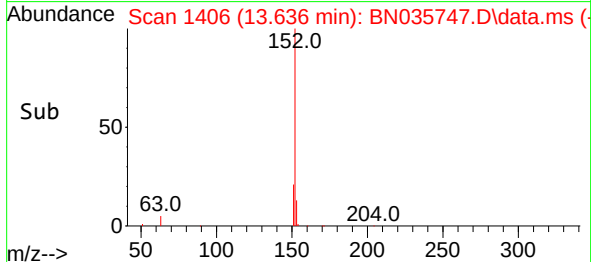
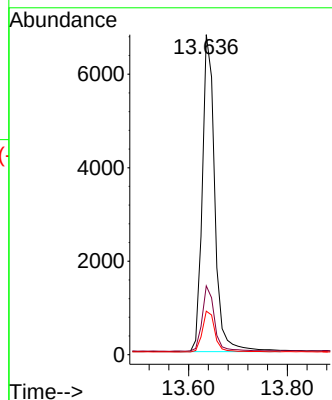
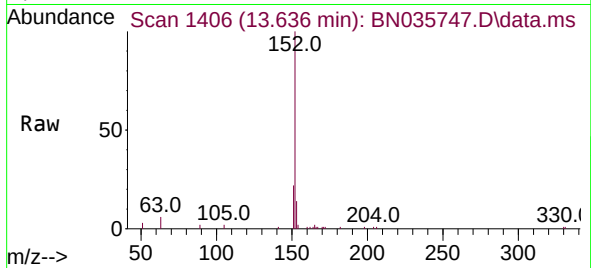




#16
Acenaphthylene
Concen: 0.405 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

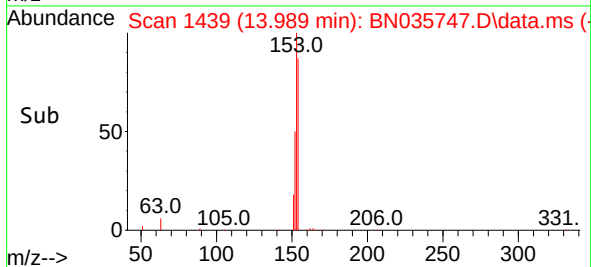
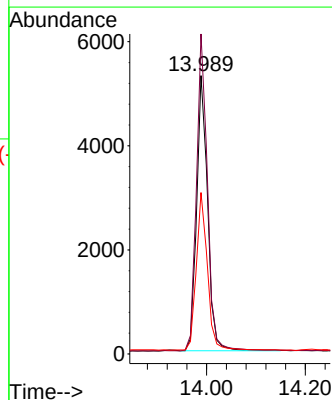
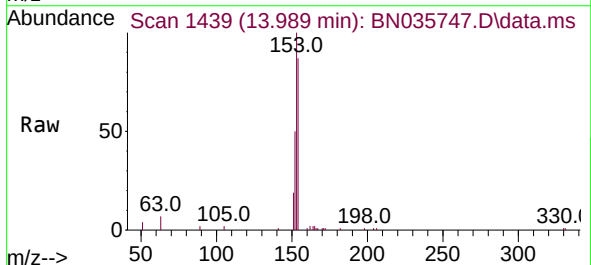
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

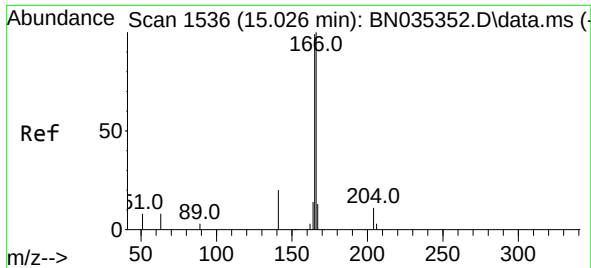
Tgt Ion:152 Resp: 11936
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.2
153 13.1 10.4 15.6



#17
Acenaphthene
Concen: 0.417 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:154 Resp: 8162
Ion Ratio Lower Upper
154 100
153 115.3 92.6 139.0
152 57.6 49.0 73.6

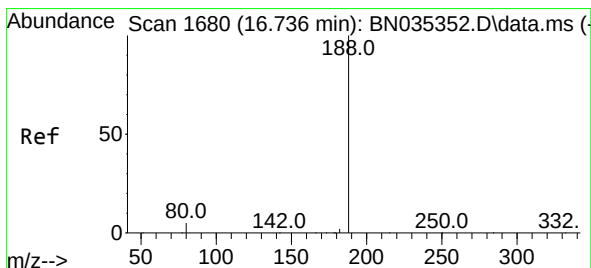
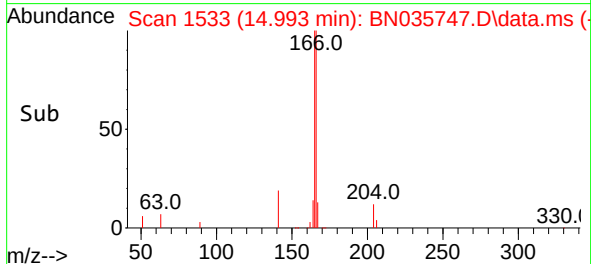
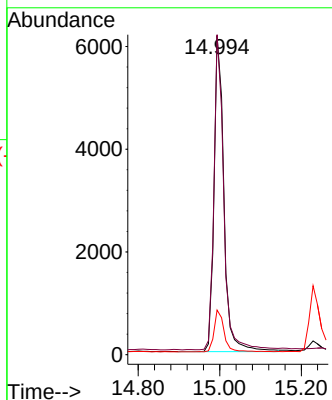
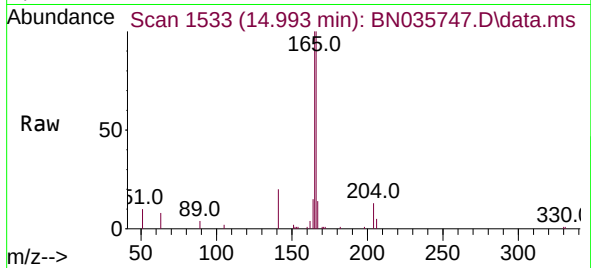




#18
 Fluorene
 Concen: 0.368 ng
 RT: 14.993 min Scan# 1536
 Delta R.T. -0.011 min
 Lab File: BN035747.D
 Acq: 20 Dec 2024 18:18

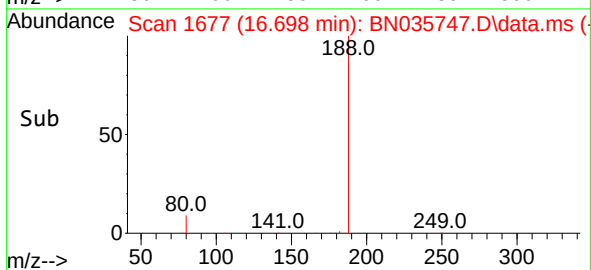
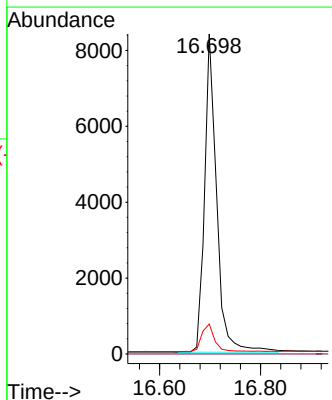
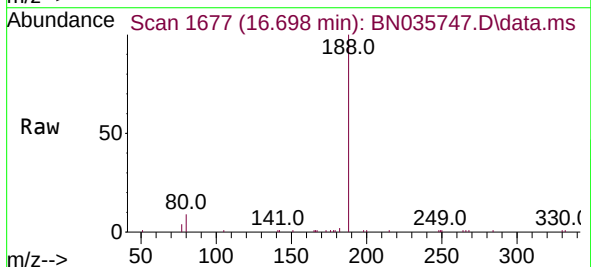
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

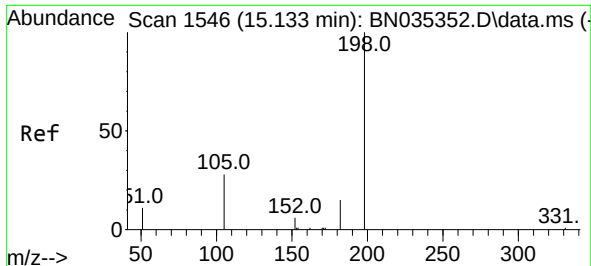
Tgt Ion:166 Resp: 10307
 Ion Ratio Lower Upper
 166 100
 165 98.2 79.7 119.5
 167 13.4 10.8 16.2



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.698 min Scan# 1677
 Delta R.T. -0.000 min
 Lab File: BN035747.D
 Acq: 20 Dec 2024 18:18

Tgt Ion:188 Resp: 13951
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 9.4 4.6 6.8#





#20

4,6-Dinitro-2-methylphenol

Concen: 0.122 ng

RT: 15.122 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

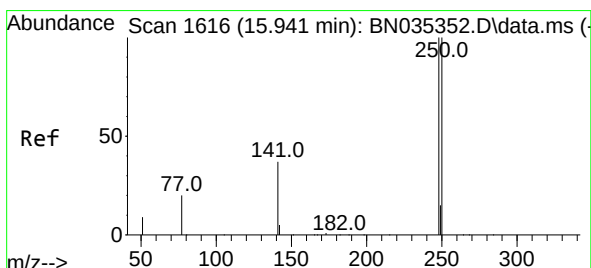
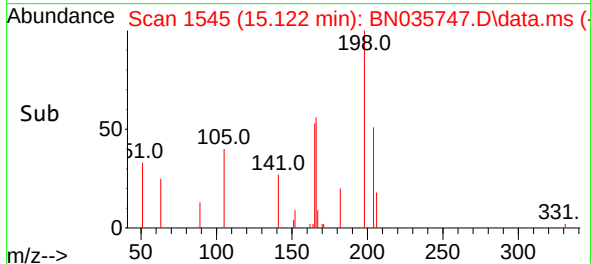
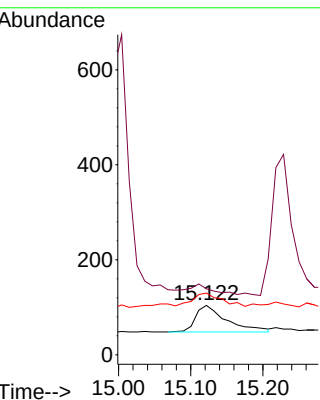
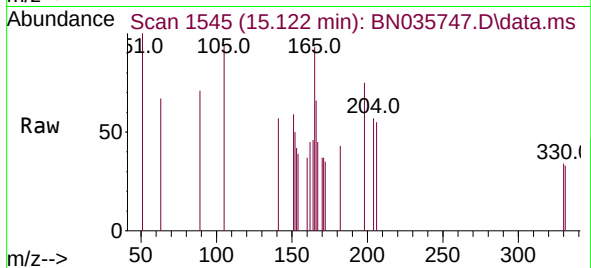
Tgt Ion:198 Resp: 168

Ion Ratio Lower Upper

198 100

51 133.7 46.5 69.7#

105 125.0 45.3 67.9#



#21

4-Bromophenyl-phenylether

Concen: 0.391 ng

RT: 15.904 min Scan# 1613

Delta R.T. -0.013 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

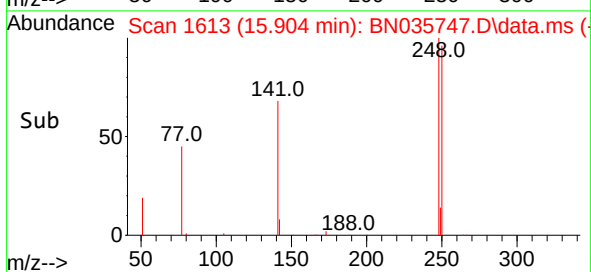
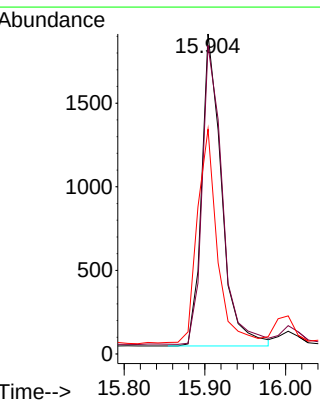
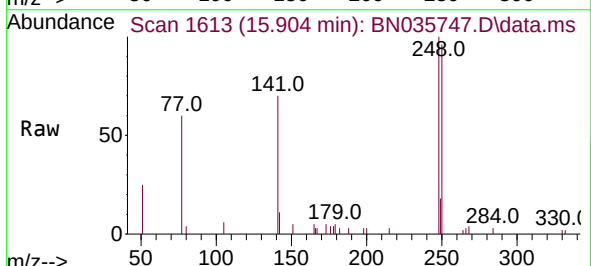
Tgt Ion:248 Resp: 3188

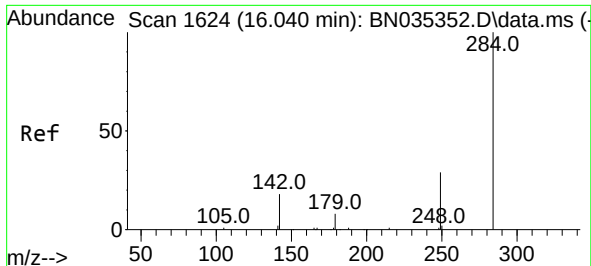
Ion Ratio Lower Upper

248 100

250 96.4 80.6 120.8

141 70.3 31.5 47.3#

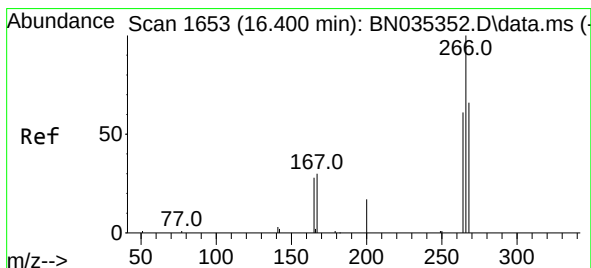
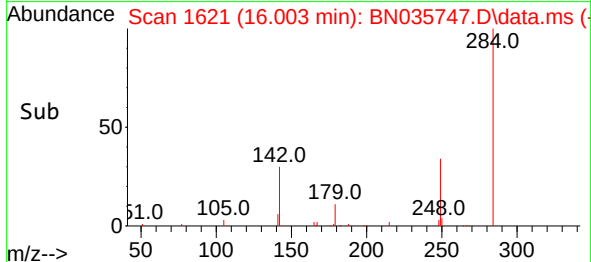
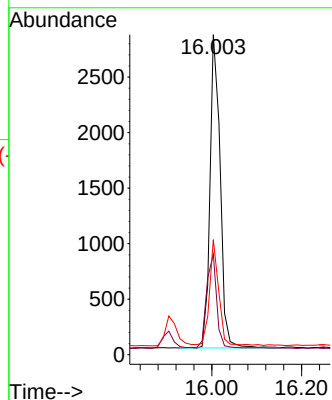
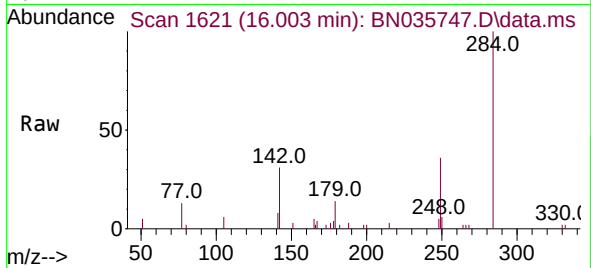




#22
Hexachlorobenzene
Concen: 0.460 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

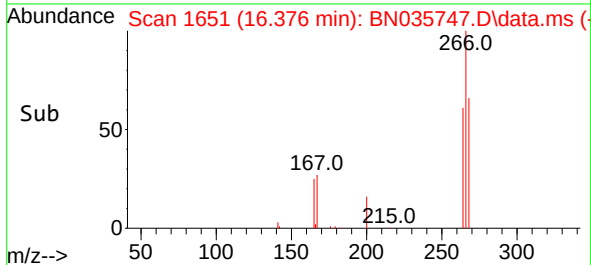
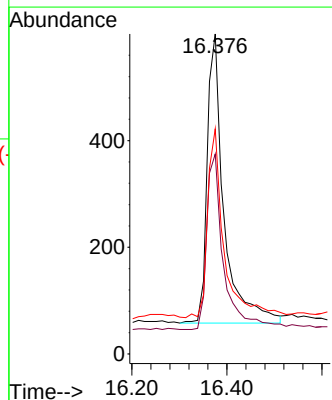
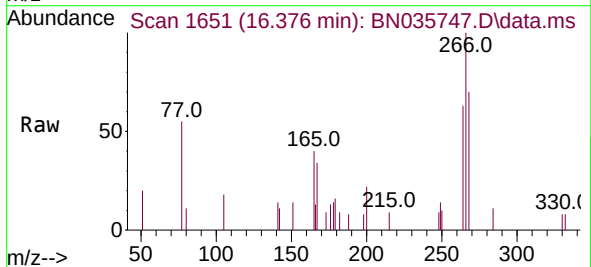
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

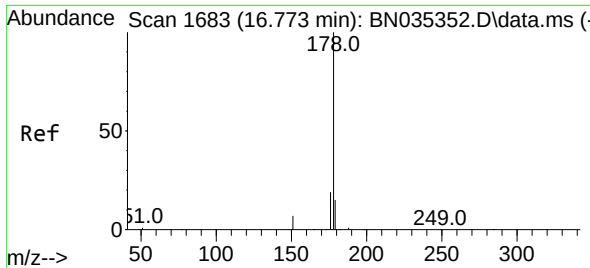
Tgt Ion:284 Resp: 4408
Ion Ratio Lower Upper
284 100
142 29.9 26.7 40.1
249 30.7 24.6 36.8



#24
Pentachlorophenol
Concen: 0.319 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:266 Resp: 1329
Ion Ratio Lower Upper
266 100
264 61.8 42.3 63.5
268 64.7 43.3 64.9

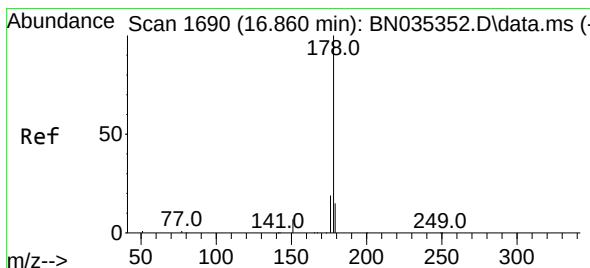
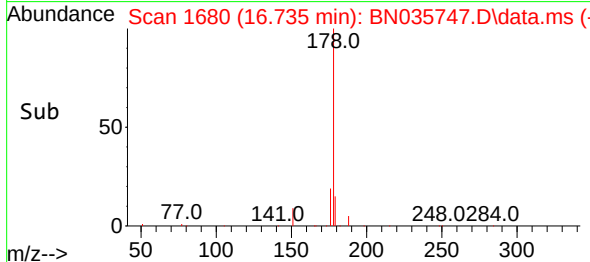
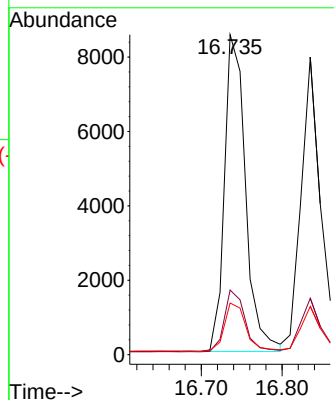
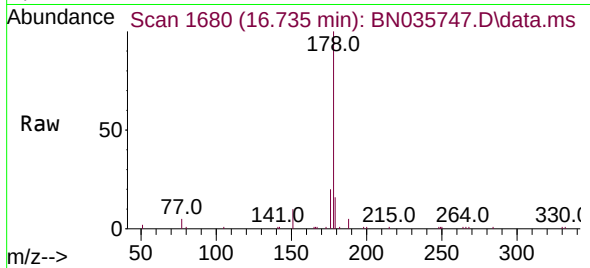




#25
Phenanthrene
Concen: 0.403 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

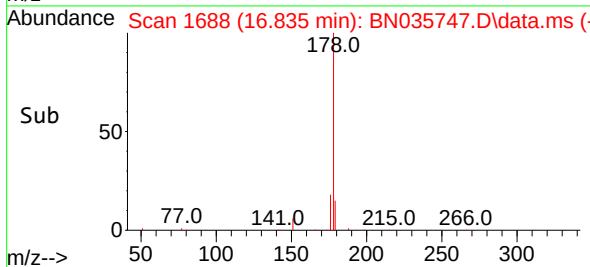
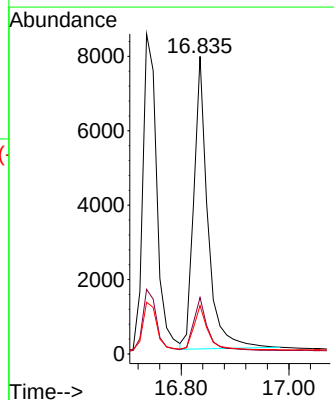
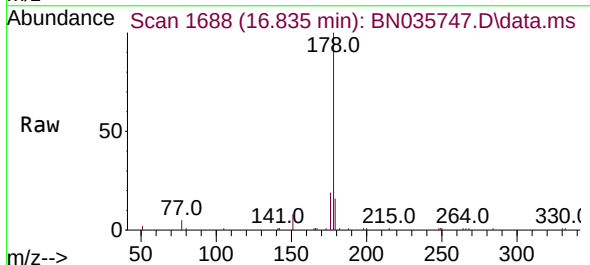
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

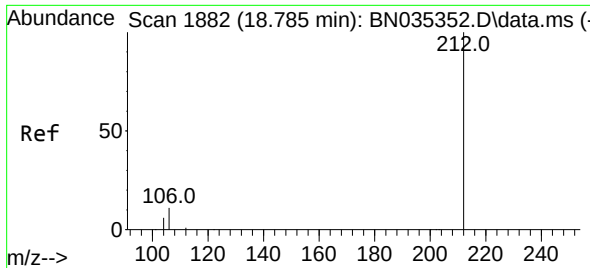
Tgt Ion:178 Resp: 15452
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.408 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 14156
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.5 12.6 18.8

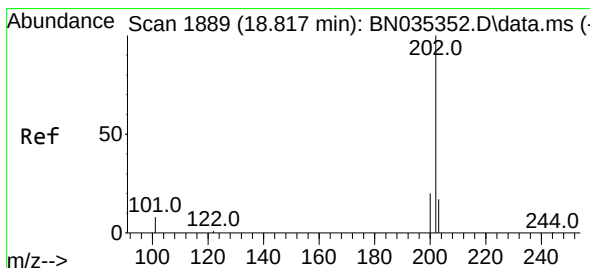
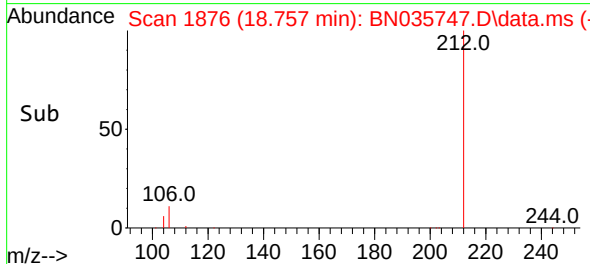
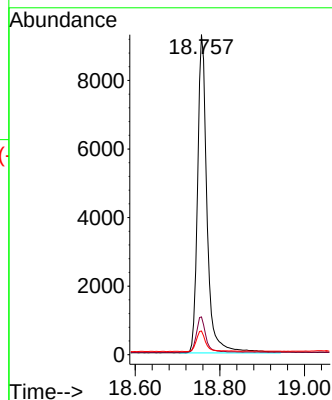
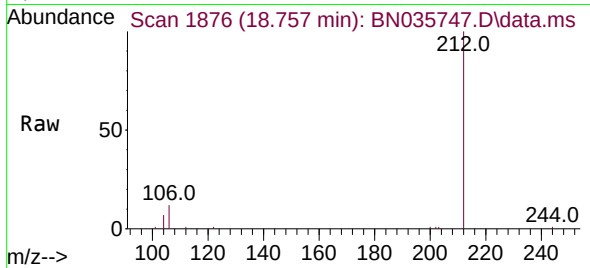




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

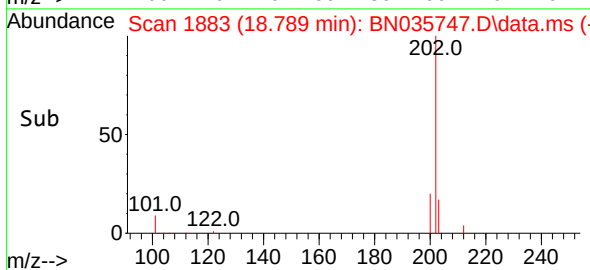
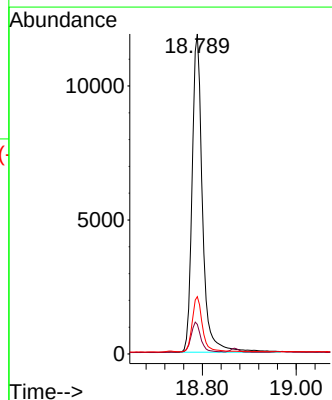
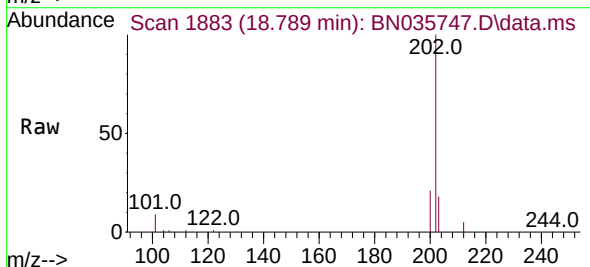
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

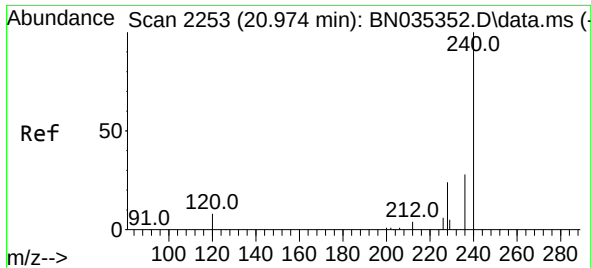
Tgt Ion:212 Resp: 14421
Ion Ratio Lower Upper
212 100
106 11.1 9.2 13.8
104 6.3 5.3 7.9



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 18255
Ion Ratio Lower Upper
202 100
101 9.4 7.4 11.0
203 17.0 13.7 20.5

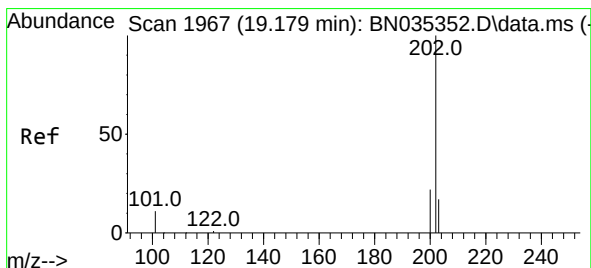
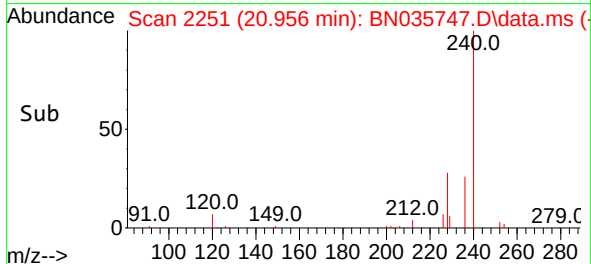
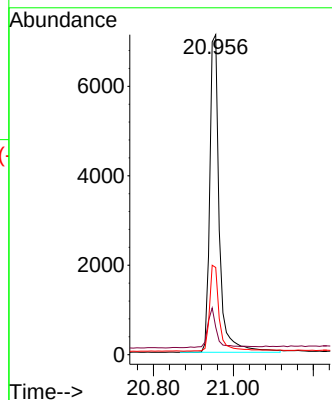
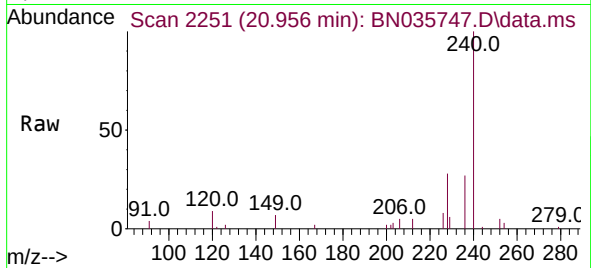




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

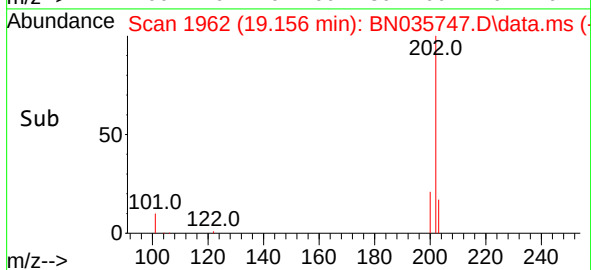
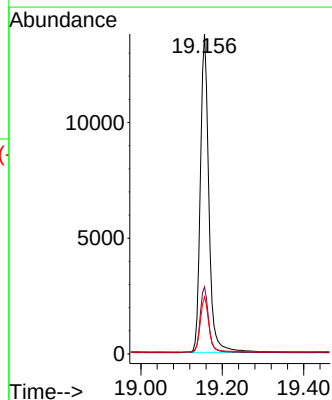
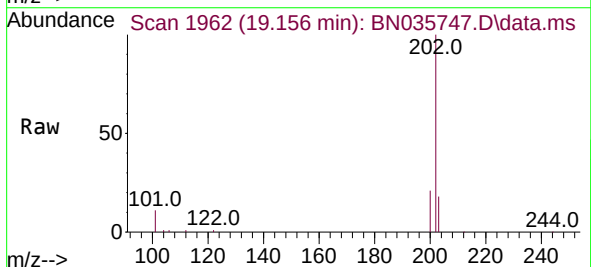
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

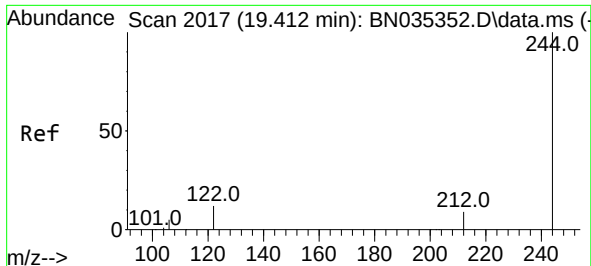
Tgt Ion:240 Resp: 11878
Ion Ratio Lower Upper
240 100
120 8.6 7.9 11.9
236 27.2 22.9 34.3



#30
Pyrene
Concen: 0.453 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 19874
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.9 14.3 21.5

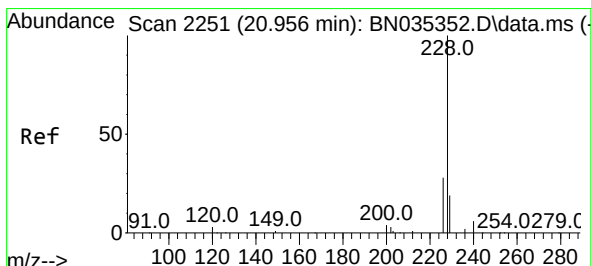
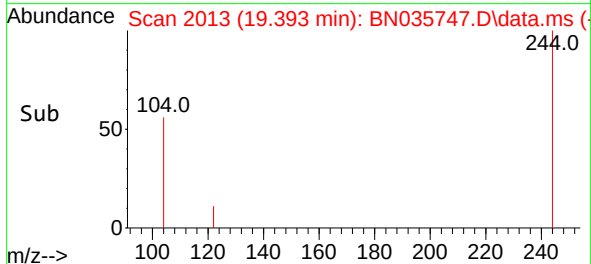
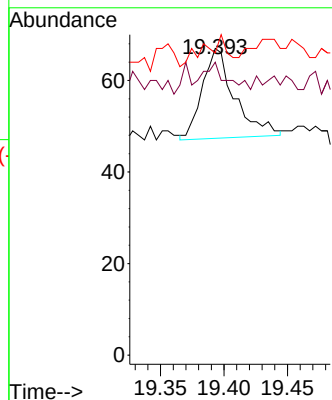
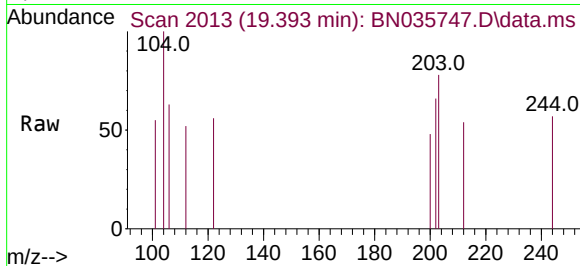




#31
 Terphenyl-d14
 Concen: 0.001 ng
 RT: 19.393 min Scan# 2017
 Delta R.T. 0.004 min
 Lab File: BN035747.D
 Acq: 20 Dec 2024 18:18

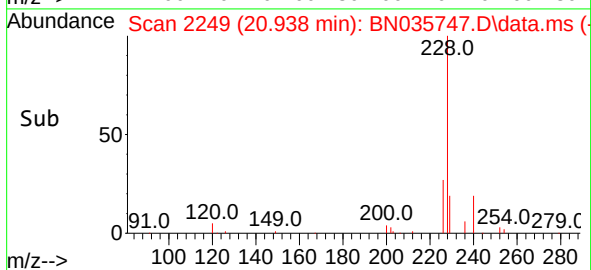
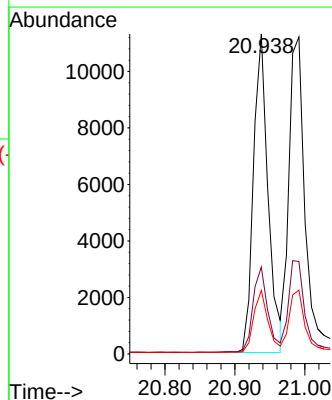
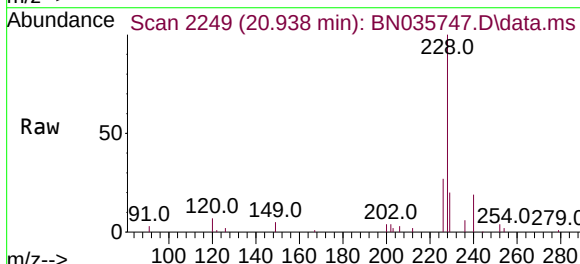
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

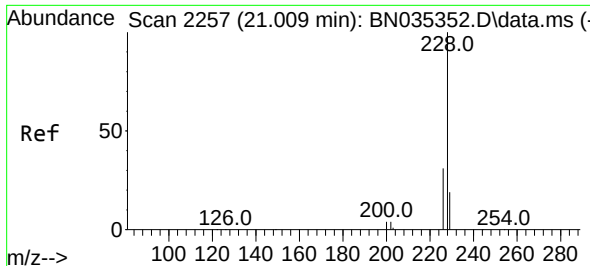
Tgt Ion:244 Resp: 35
 Ion Ratio Lower Upper
 244 100
 212 95.5 8.1 12.1#
 122 98.5 10.3 15.5#



#32
 Benzo(a)anthracene
 Concen: 0.394 ng
 RT: 20.938 min Scan# 2249
 Delta R.T. -0.000 min
 Lab File: BN035747.D
 Acq: 20 Dec 2024 18:18

Tgt Ion:228 Resp: 16354
 Ion Ratio Lower Upper
 228 100
 226 27.2 22.5 33.7
 229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.428 ng

RT: 20.991 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

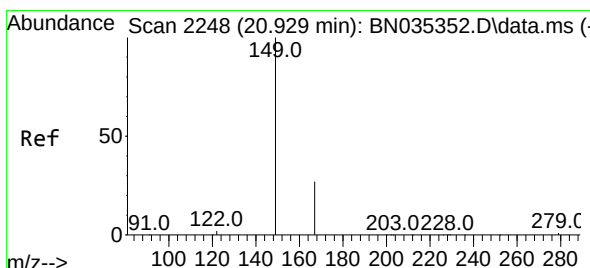
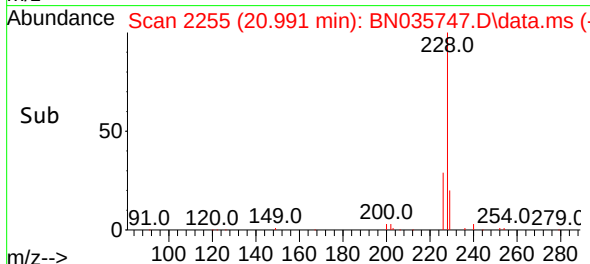
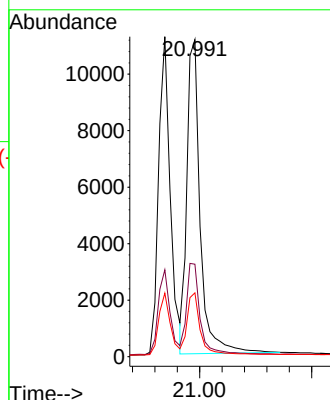
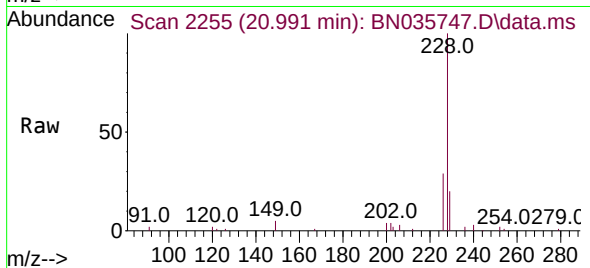
Tgt Ion:228 Resp: 18340

Ion Ratio Lower Upper

228 100

226 29.2 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.456 ng

RT: 20.911 min Scan# 2246

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

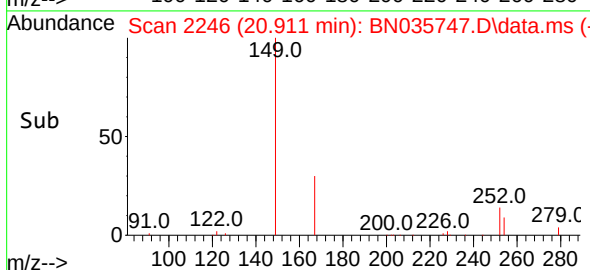
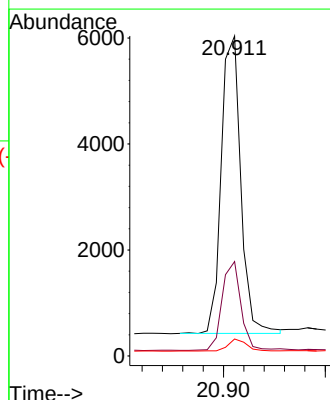
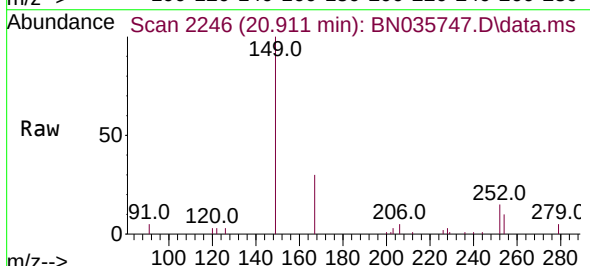
Tgt Ion:149 Resp: 7490

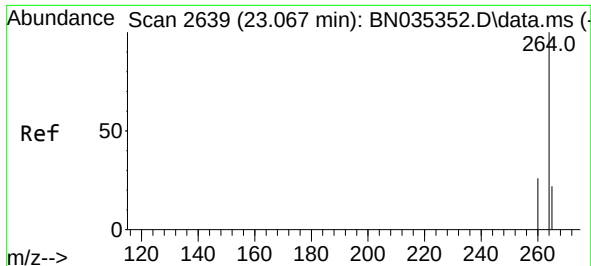
Ion Ratio Lower Upper

149 100

167 29.2 22.2 33.4

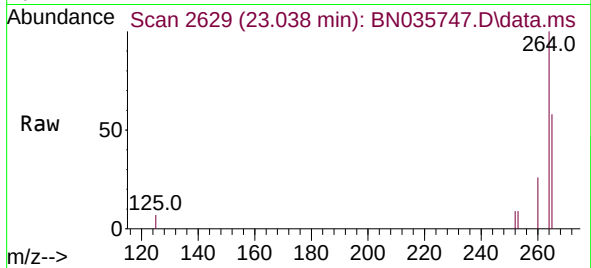
279 3.7 2.7 4.1



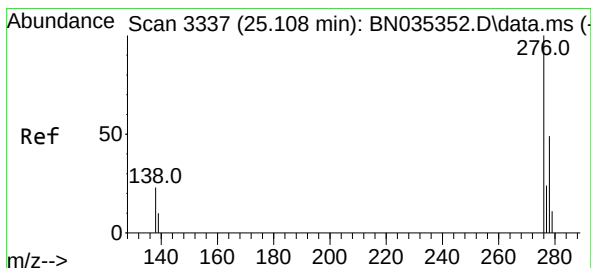
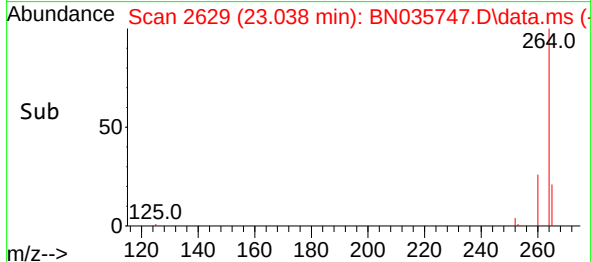
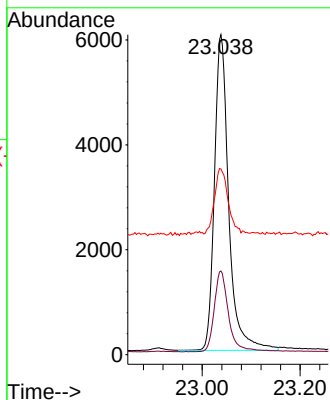


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

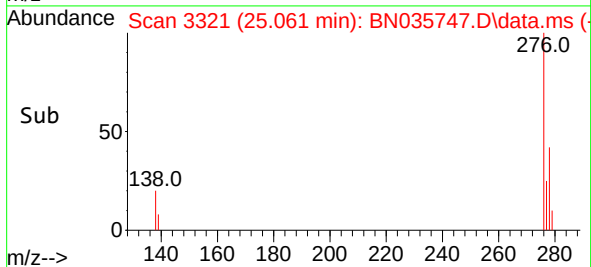
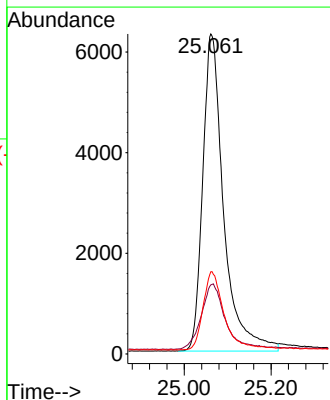
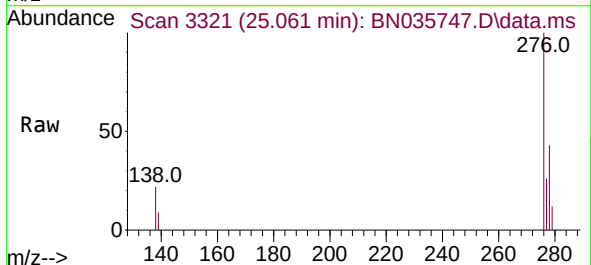


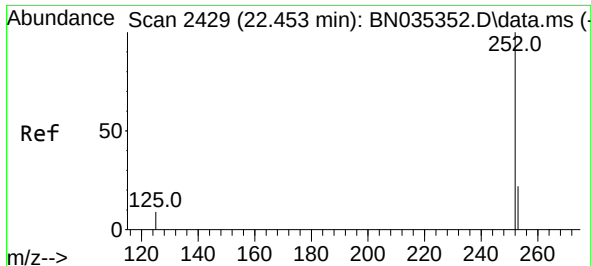
Tgt Ion:264 Resp: 12200
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 58.1 40.2 60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.442 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.006 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

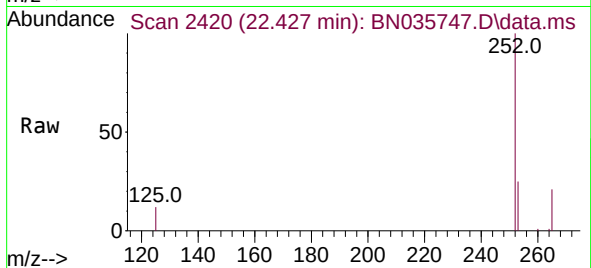
Tgt Ion:276 Resp: 21102
Ion Ratio Lower Upper
276 100
138 23.7 19.4 29.0
277 25.2 19.8 29.6



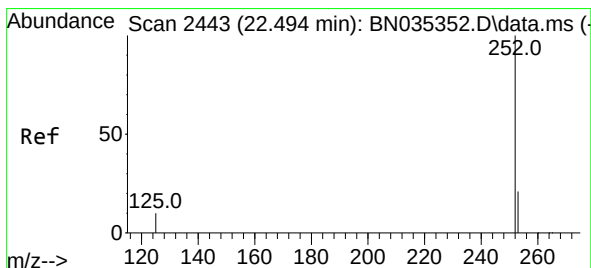
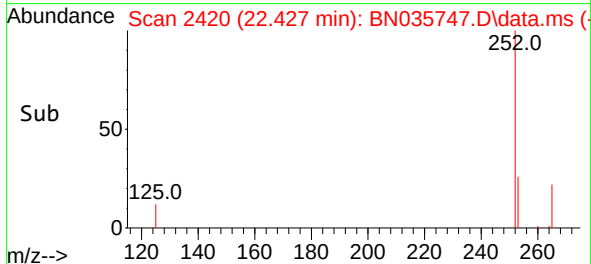
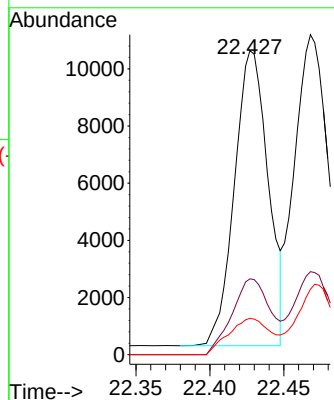


#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

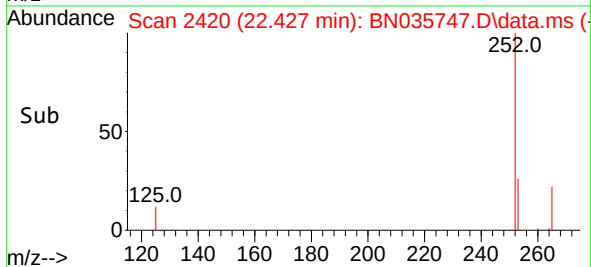
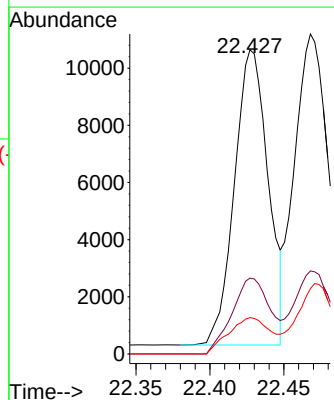
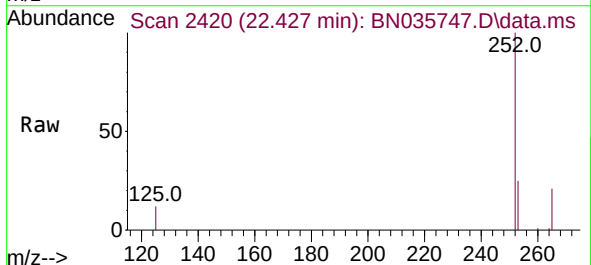


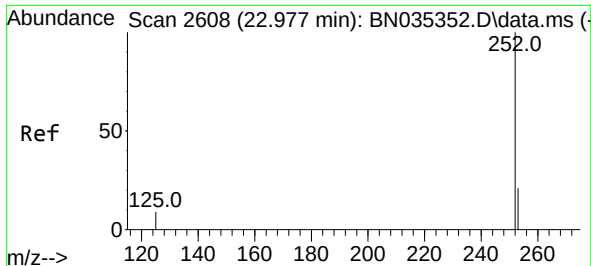
Tgt Ion:252 Resp: 21982
Ion Ratio Lower Upper
252 100
253 25.0 19.6 29.4
125 12.0 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.500 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 21982
Ion Ratio Lower Upper
252 100
253 25.0 19.5 29.3
125 12.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035747.D

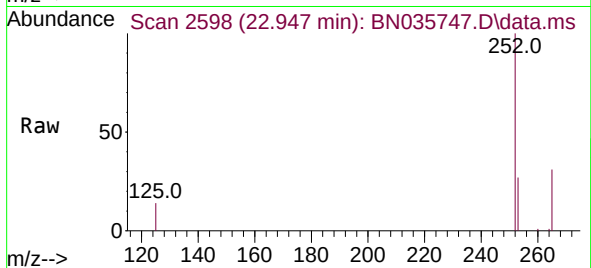
Acq: 20 Dec 2024 18:18

Instrument :

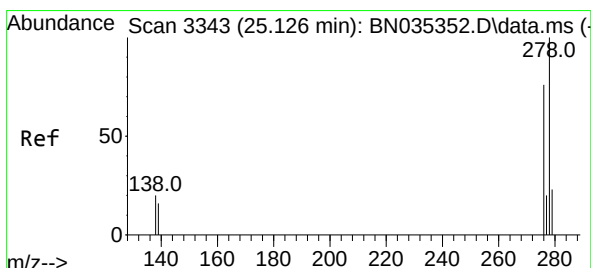
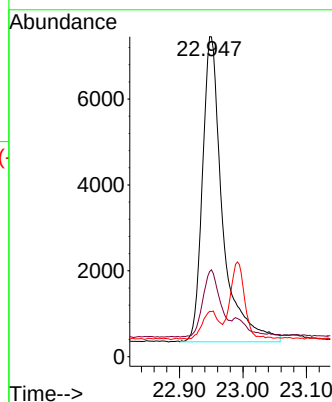
BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:252	Resp:	15636
Ion	Ratio	Lower Upper
252	100	
253	26.6	20.2 30.4
125	14.2	10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.421 ng

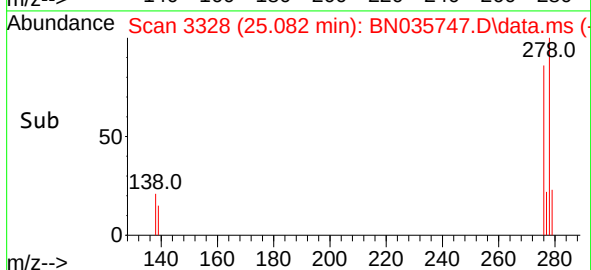
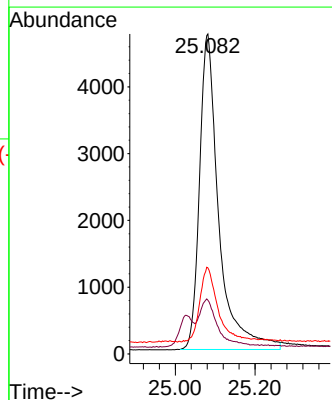
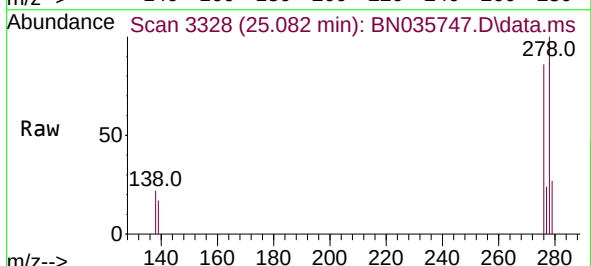
RT: 25.082 min Scan# 3328

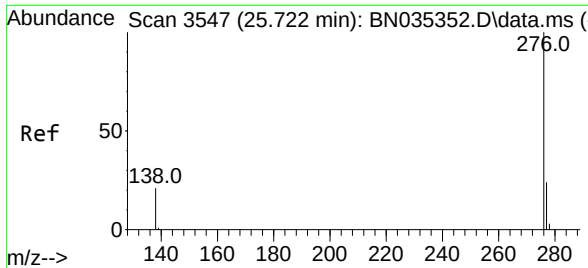
Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

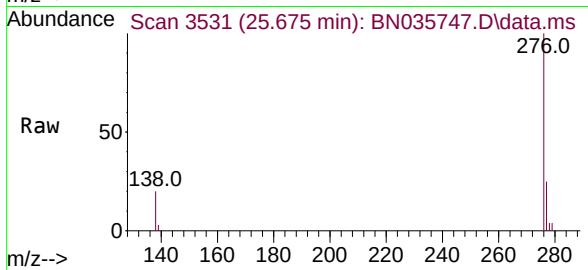
Tgt Ion:278	Resp:	15847
Ion	Ratio	Lower Upper
278	100	
139	16.8	14.2 21.4
279	26.9	20.5 30.7



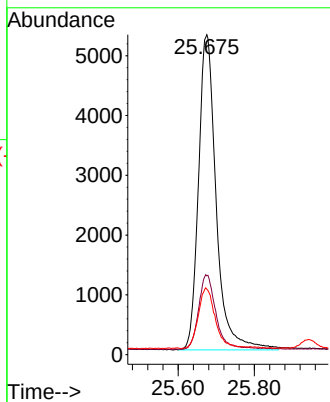
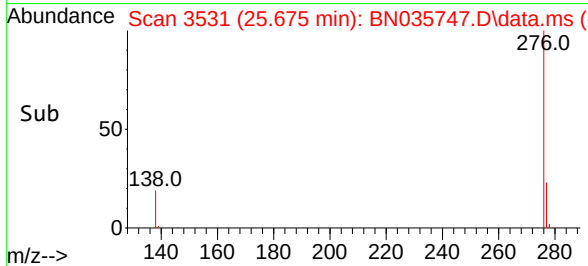


#41
Benzo(g,h,i)perylene
Concen: 0.432 ng
RT: 25.675 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN035747.D
Acq: 20 Dec 2024 18:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	16995
Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.9	29.9
138	20.4	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035794.D
 Acq On : 23 Dec 2024 22:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

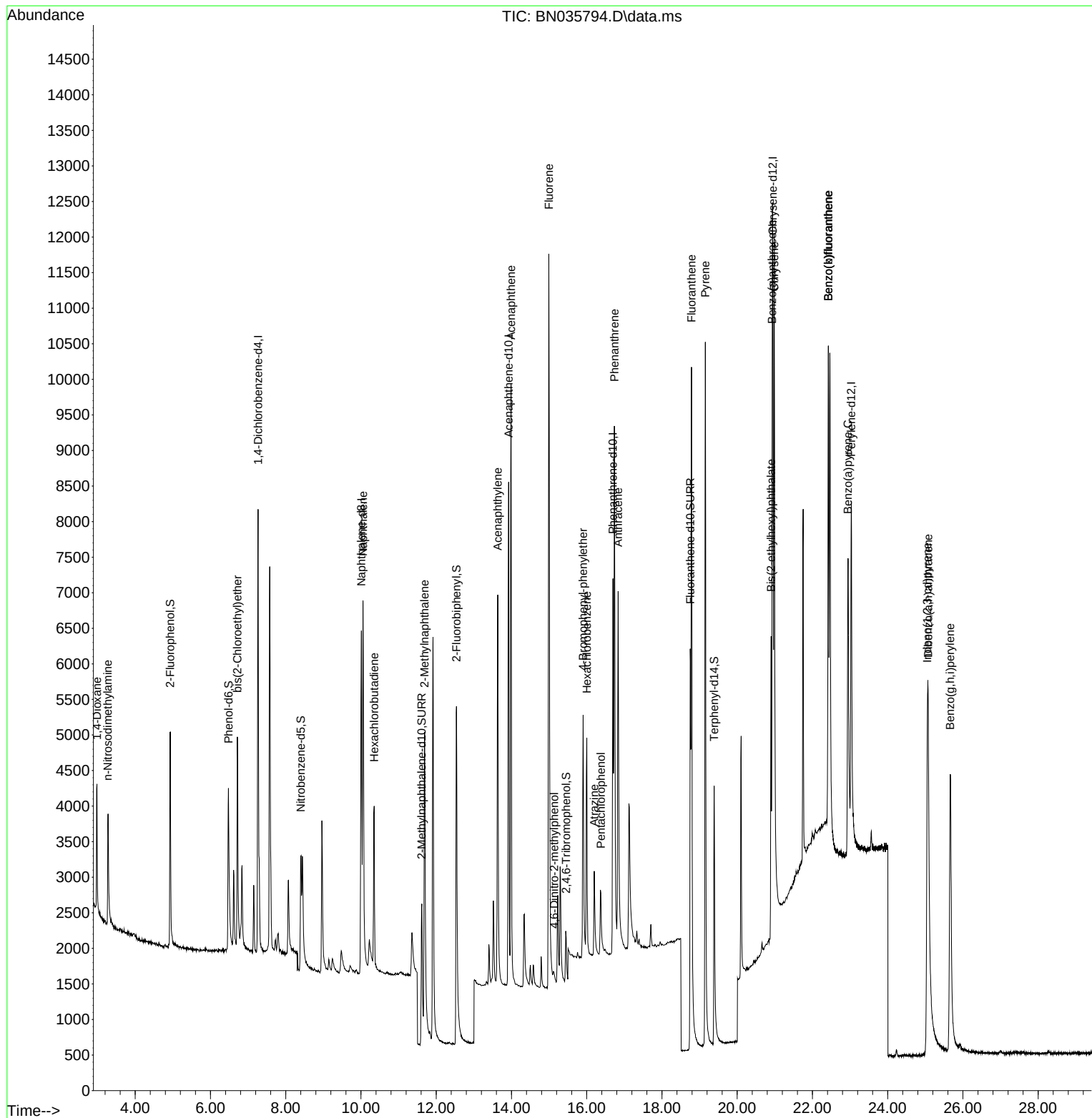
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3234	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7877	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4482	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8845	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7163	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	7277	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2987	0.369	ng	0.00
5) Phenol-d6	6.477	99	3287	0.338	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2444	0.508	ng	-0.01
11) 2-Methylnaphthalene-d10	11.615	152	4254	0.345	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	932	0.293	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6854	0.405	ng	0.00
27) Fluoranthene-d10	18.752	212	8405	0.335	ng	0.00
31) Terphenyl-d14	19.388	244	5620	0.398	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	1355	0.438	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.270	42	1052	0.409	ng	# 95
6) bis(2-Chloroethyl)ether	6.715	93	2845	0.348	ng	97
9) Naphthalene	10.052	128	7865	0.379	ng	100
10) Hexachlorobutadiene	10.351	225	2082	0.434	ng	# 100
12) 2-Methylnaphthalene	11.692	142	5023	0.338	ng	99
16) Acenaphthylene	13.636	152	6992	0.372	ng	99
17) Acenaphthene	13.989	154	4714	0.377	ng	99
18) Fluorene	14.993	166	6004	0.336	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	221	0.254	ng	# 12
21) 4-Bromophenyl-phenylether	15.904	248	1918	0.371	ng	# 86
22) Hexachlorobenzene	16.003	284	2804	0.462	ng	97
23) Atrazine	16.202	200	1338	0.363	ng	96
24) Pentachlorophenol	16.375	266	783	0.296	ng	87
25) Phenanthrene	16.735	178	8831	0.363	ng	100
26) Anthracene	16.835	178	7665	0.349	ng	99
28) Fluoranthene	18.785	202	11004	0.336	ng	100
30) Pyrene	19.152	202	11228	0.425	ng	99
32) Benzo(a)anthracene	20.929	228	7716	0.308	ng	100
33) Chrysene	20.983	228	11129	0.431	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4068	0.411	ng	99
36) Indeno(1,2,3-cd)pyrene	25.055	276	10012	0.352	ng	98
37) Benzo(b)fluoranthene	22.421	252	14187	0.533	ng	# 95
38) Benzo(k)fluoranthene	22.421	252	14187	0.541	ng	95
39) Benzo(a)pyrene	22.944	252	8141	0.371	ng	# 87
40) Dibenzo(a,h)anthracene	25.076	278	7465	0.333	ng	# 91
41) Benzo(g,h,i)perylene	25.663	276	9418	0.401	ng	98

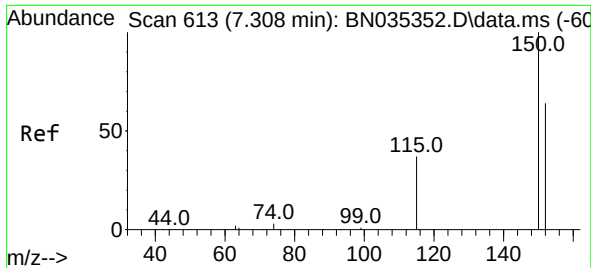
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035794.D
Acq On : 23 Dec 2024 22:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

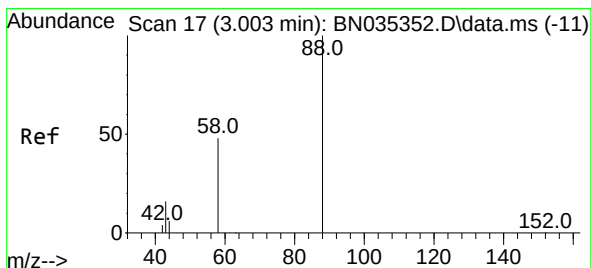
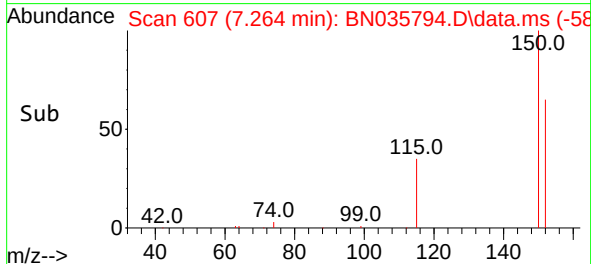
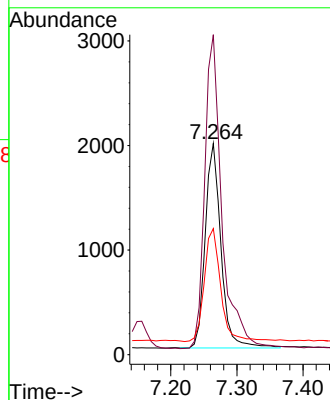
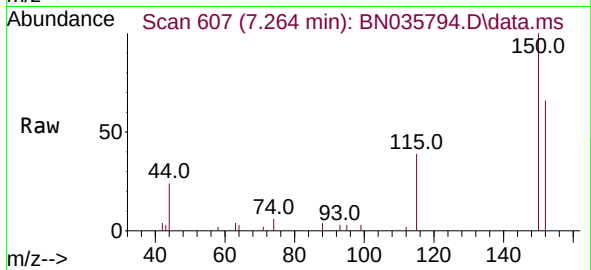




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

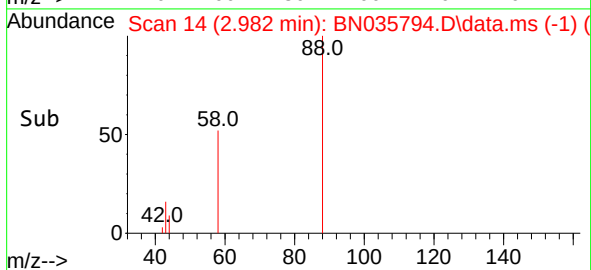
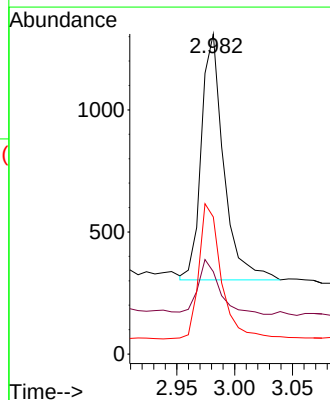
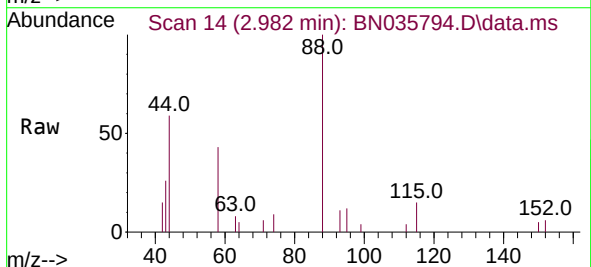
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

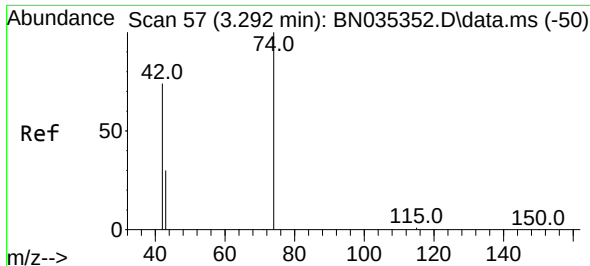
Tgt Ion:152 Resp: 3234
 Ion Ratio Lower Upper
 152 100
 150 151.5 124.0 186.0
 115 59.7 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.438 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

Tgt Ion: 88 Resp: 1355
 Ion Ratio Lower Upper
 88 100
 43 21.3 17.2 25.8
 58 55.4 44.5 66.7

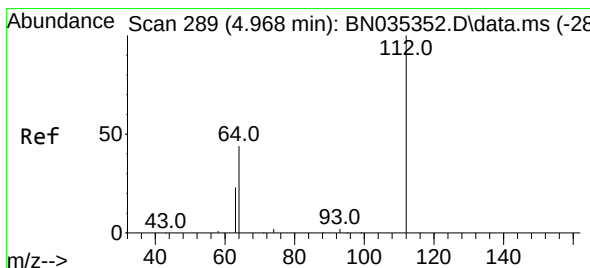
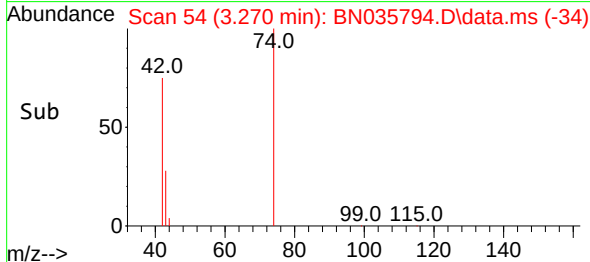
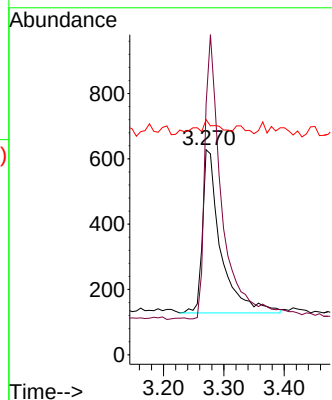
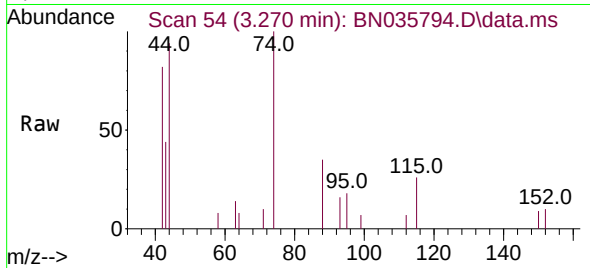




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

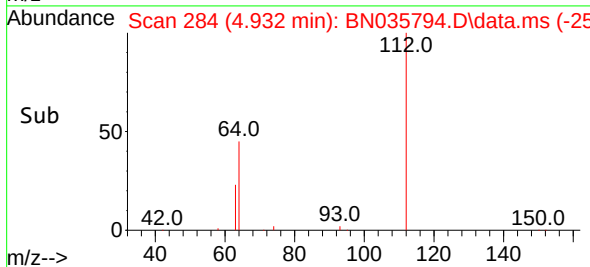
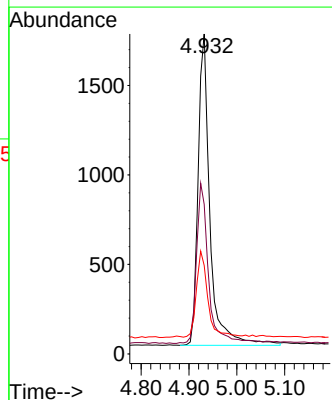
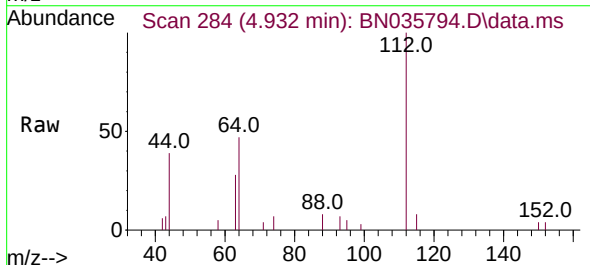
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

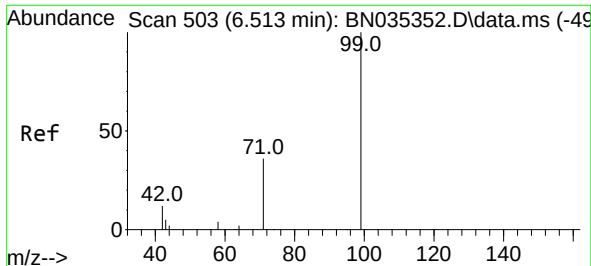
Tgt Ion: 42 Resp: 1052
Ion Ratio Lower Upper
42 100
74 162.6 124.9 187.3
44 10.1 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.369 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 112 Resp: 2987
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 26.4 21.0 31.6

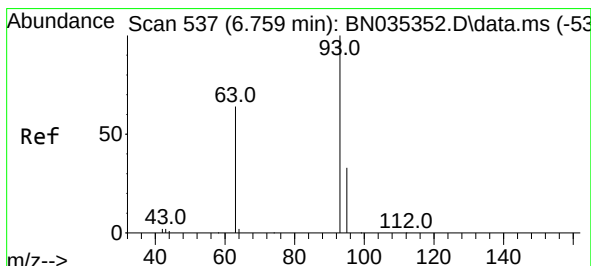
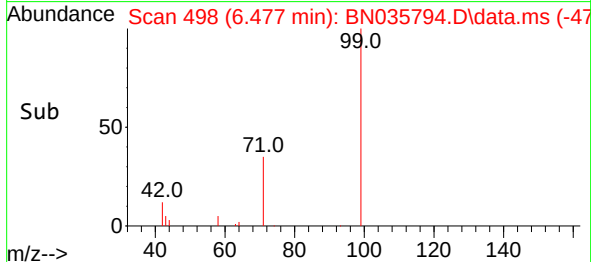
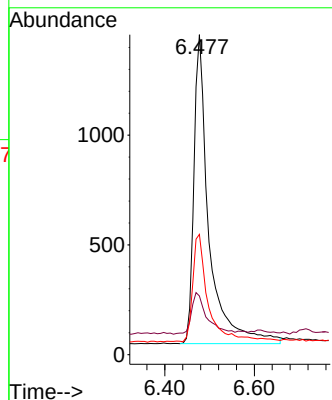
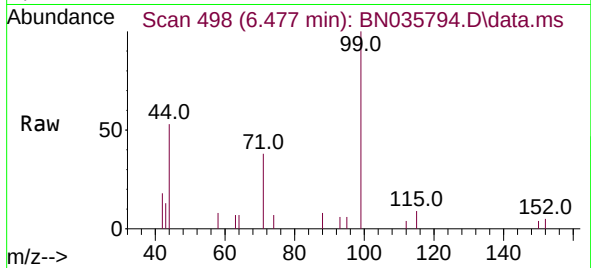




#5
Phenol-d6
Concen: 0.338 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

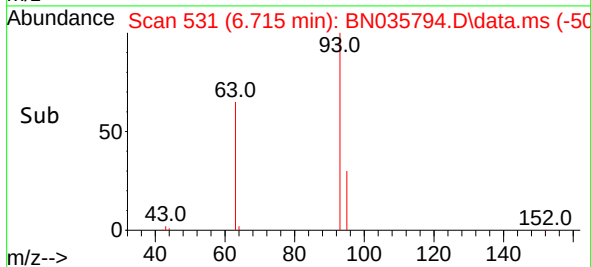
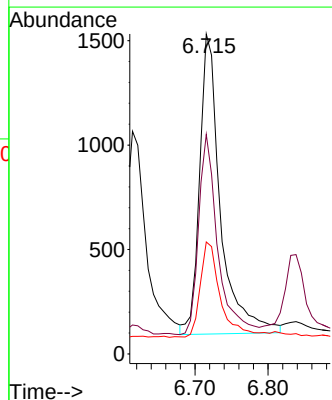
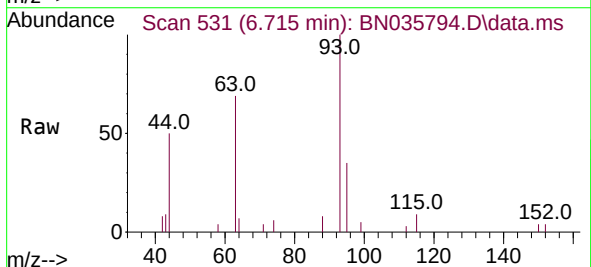
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

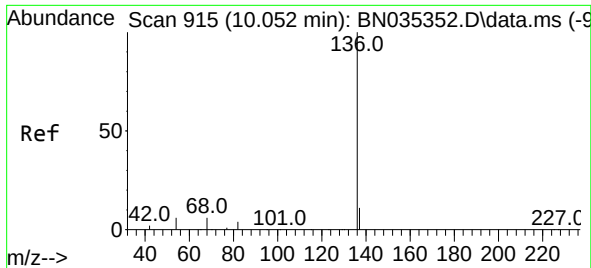
Tgt Ion: 99 Resp: 3287
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 35.3 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.348 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion: 93 Resp: 2845
Ion Ratio Lower Upper
93 100
63 61.5 50.4 75.6
95 30.1 25.7 38.5

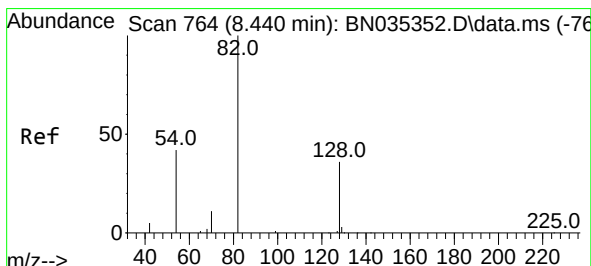
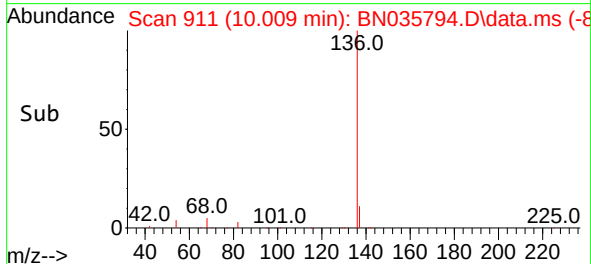
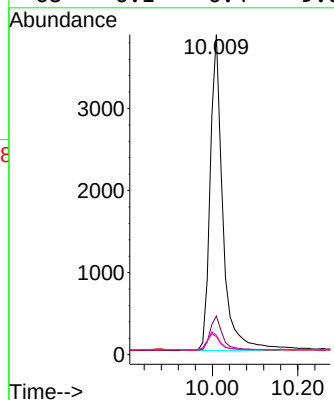
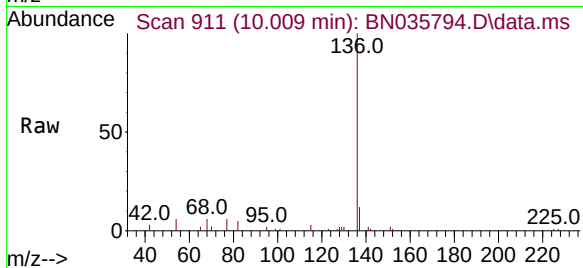




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

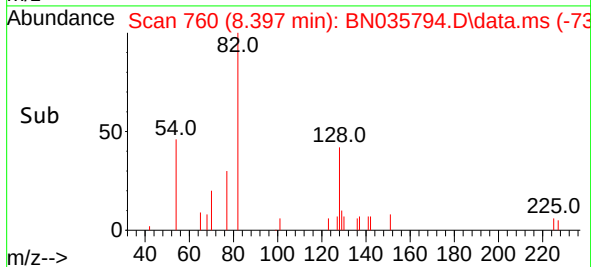
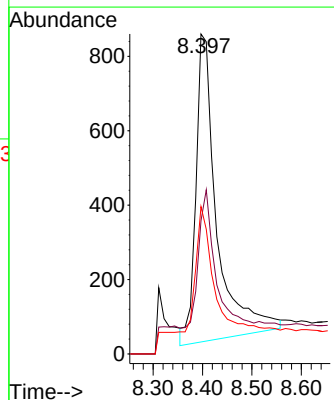
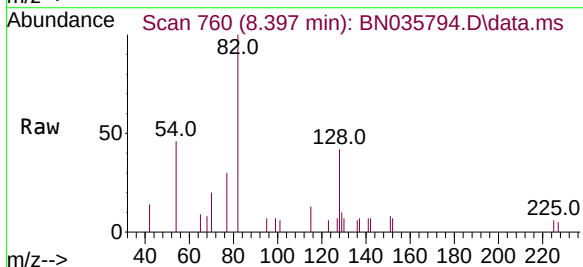
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

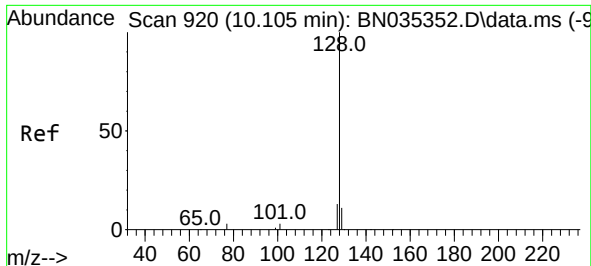
Tgt Ion:	136	Resp:	7877
Ion Ratio	Lower	Upper	
136	100		
137	12.1	10.2	15.2
54	5.7	6.1	9.1#
68	6.1	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.508 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:	82	Resp:	2444
Ion Ratio	Lower	Upper	
82	100		
128	41.6	33.4	50.0
54	46.0	36.7	55.1

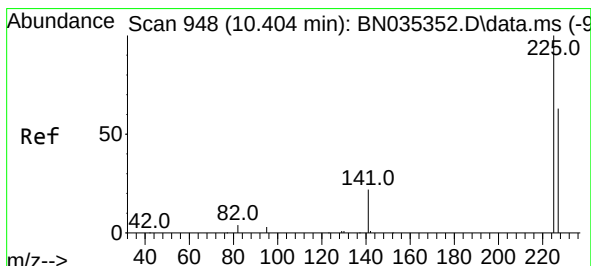
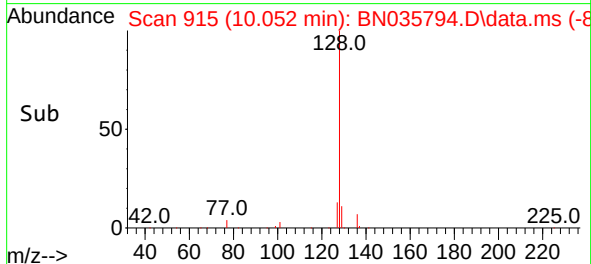
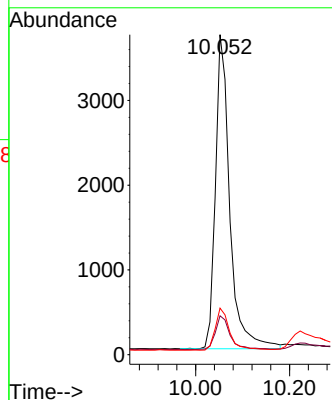
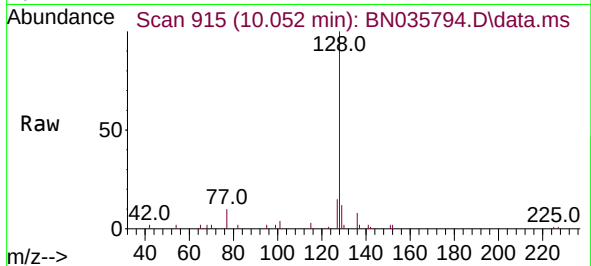




#9
Naphthalene
Concen: 0.379 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

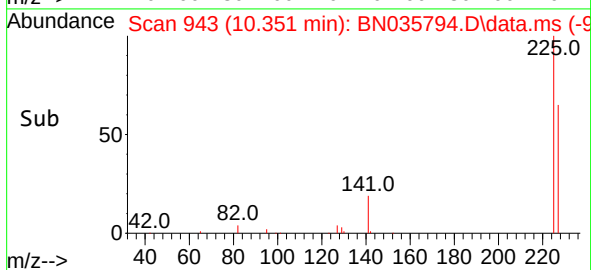
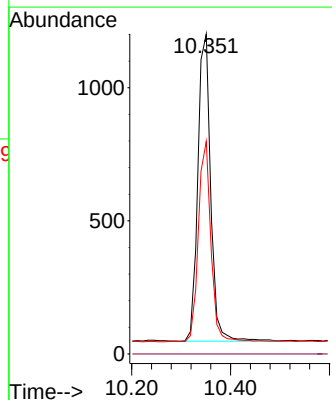
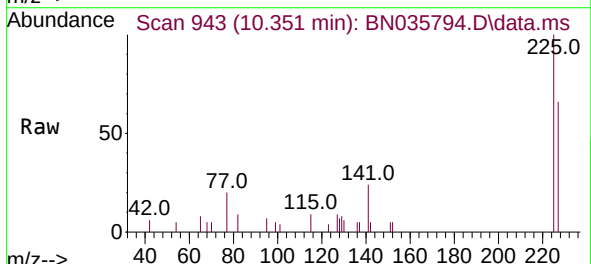
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

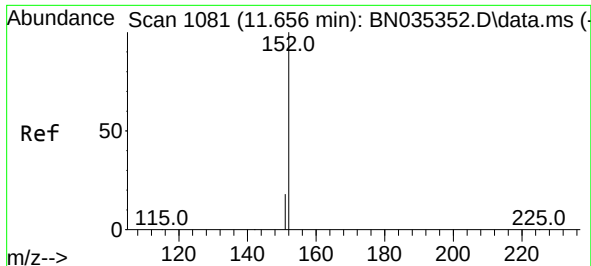
Tgt Ion:	128	Resp:	7865
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:	225	Resp:	2082
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9

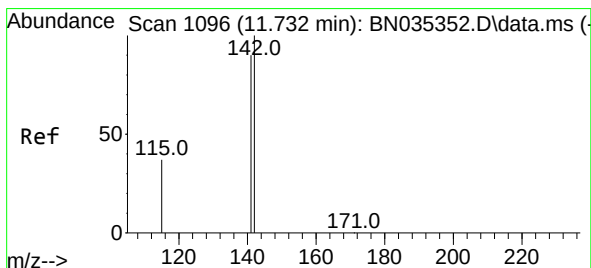
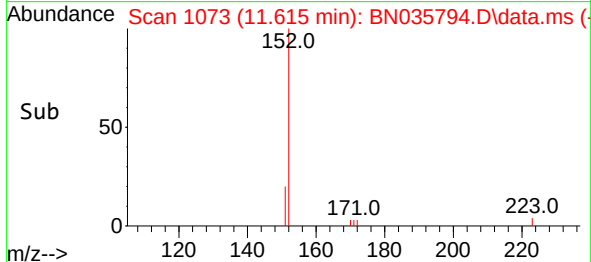
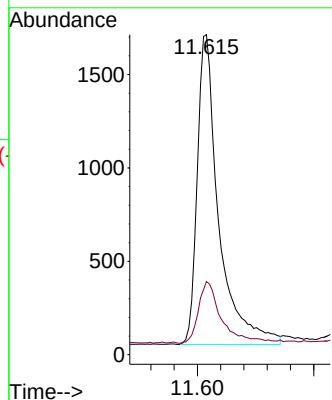
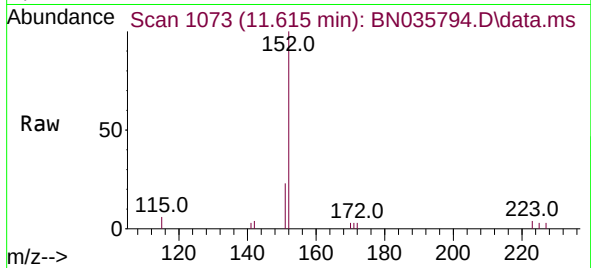




#11
2-Methylnaphthalene-d10
Concen: 0.345 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

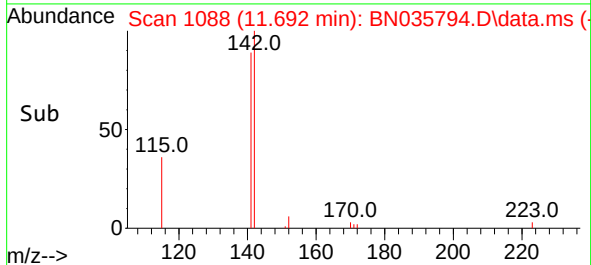
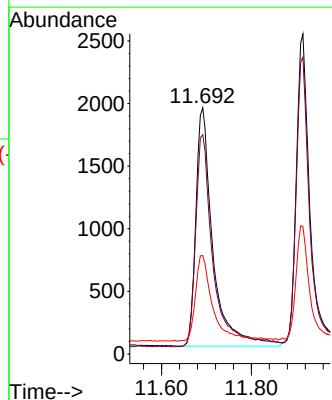
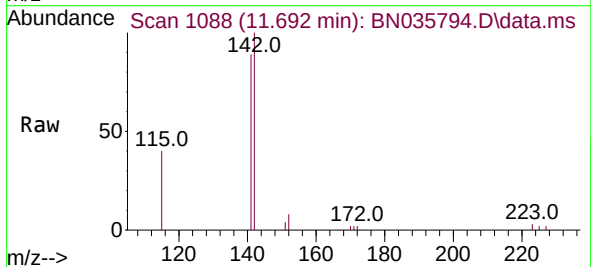
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

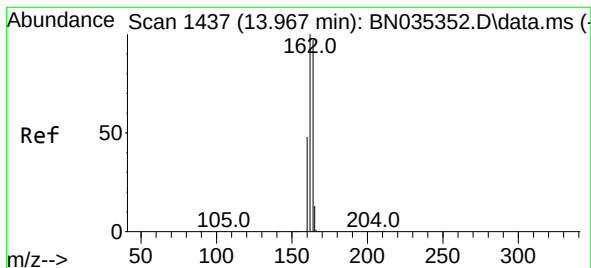
Tgt Ion:152 Resp: 4254
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:142 Resp: 5023
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 40.0 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

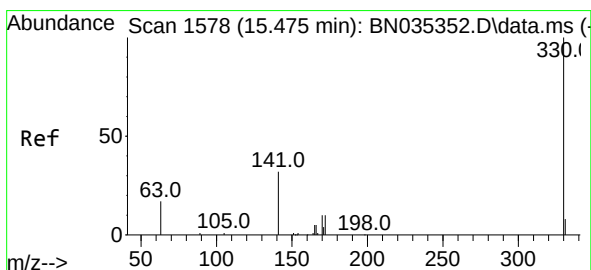
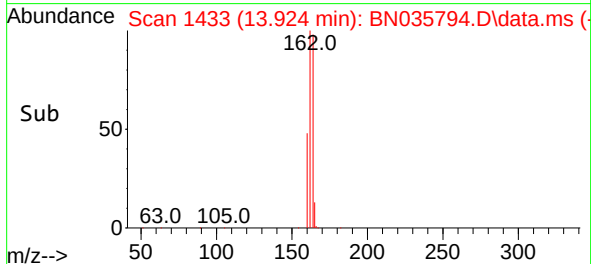
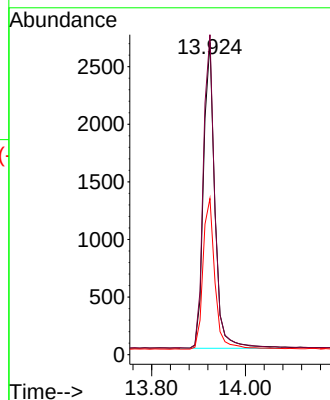
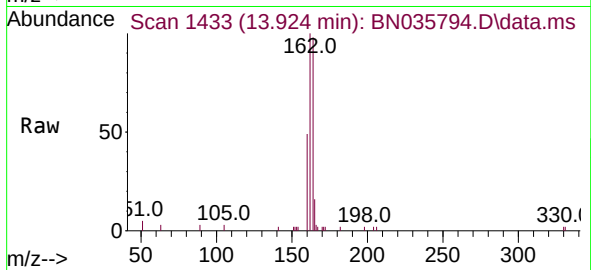
Tgt Ion:164 Resp: 4482

Ion Ratio Lower Upper

164 100

162 102.4 82.2 123.2

160 50.0 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.293 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

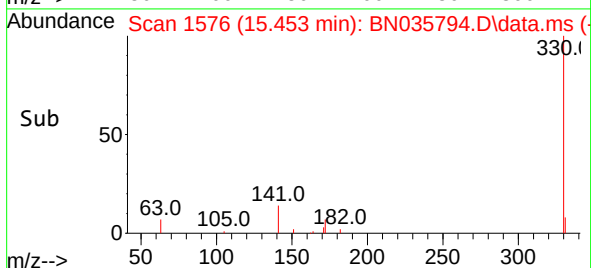
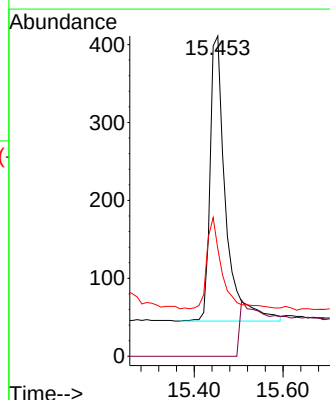
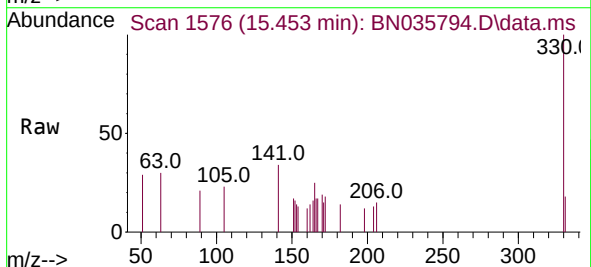
Tgt Ion:330 Resp: 932

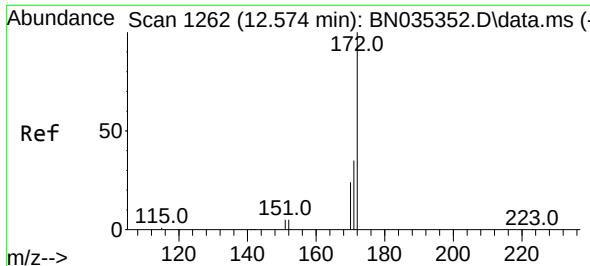
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 30.8 26.6 40.0

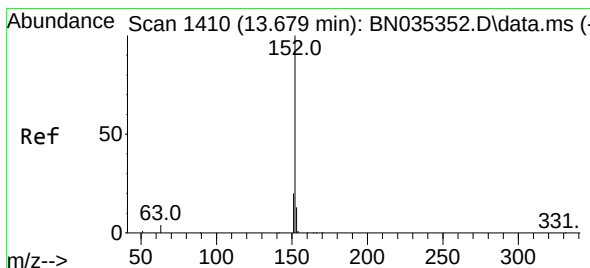
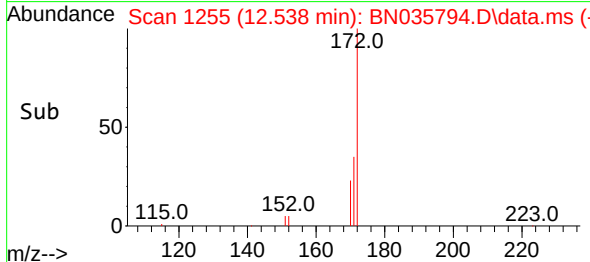
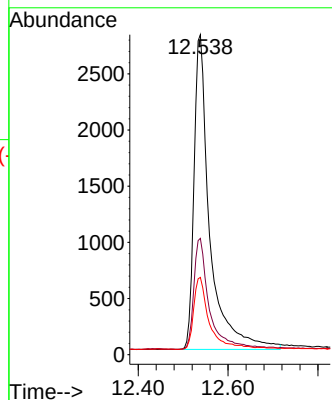
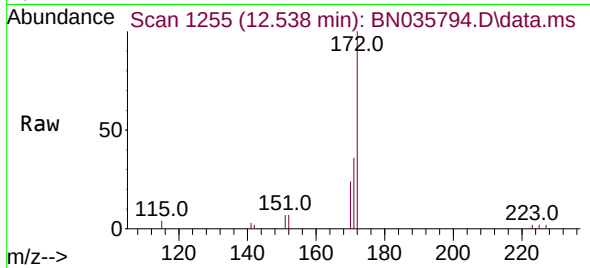




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.538 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

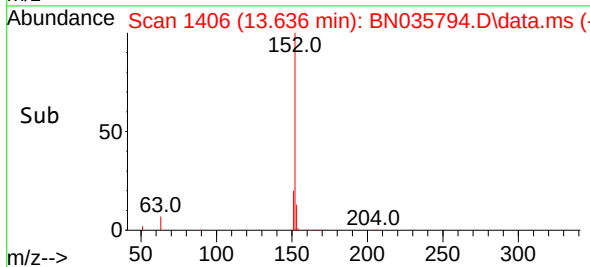
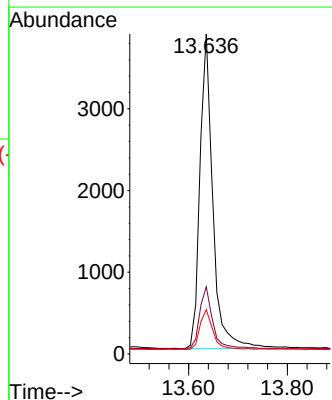
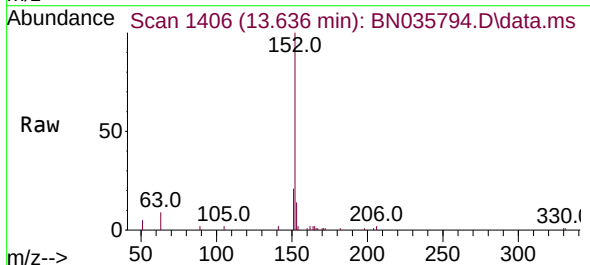
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

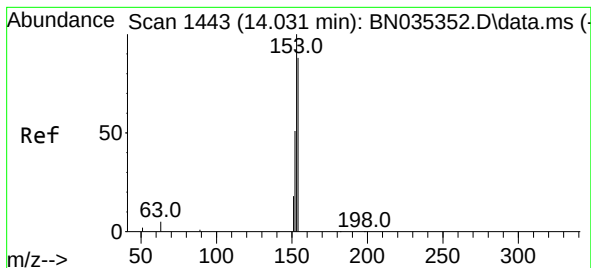
Tgt Ion:172 Resp: 6854
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 24.1 19.8 29.8



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:152 Resp: 6992
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.2
153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.377 ng

RT: 13.989 min Scan# 1443

Delta R.T. -0.011 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

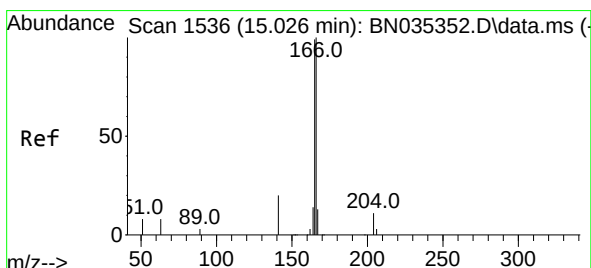
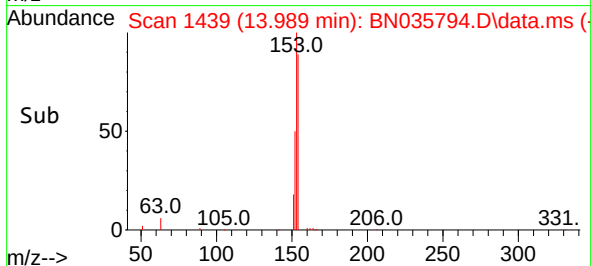
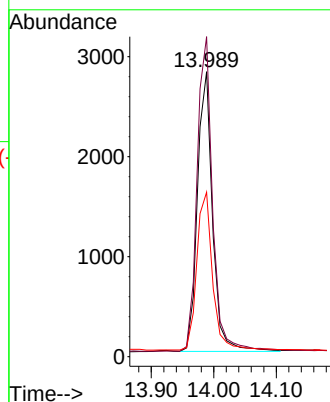
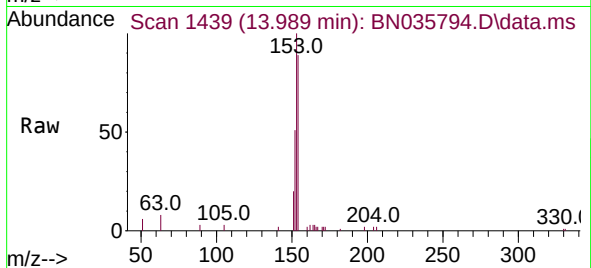
Tgt Ion:154 Resp: 4714

Ion Ratio Lower Upper

154 100

153 115.7 92.6 139.0

152 59.2 49.0 73.6



#18

Fluorene

Concen: 0.336 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

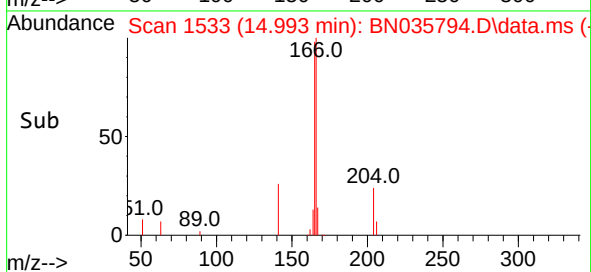
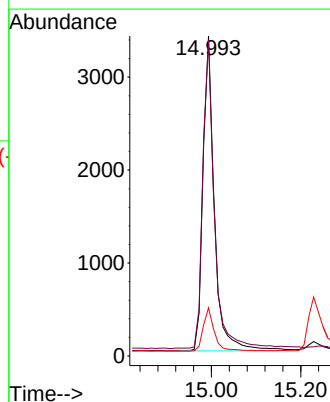
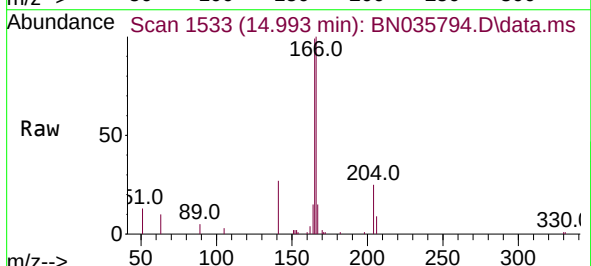
Tgt Ion:166 Resp: 6004

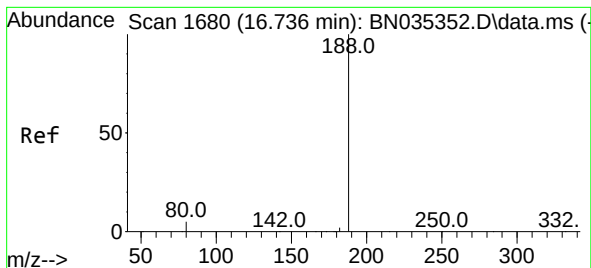
Ion Ratio Lower Upper

166 100

165 99.4 79.7 119.5

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

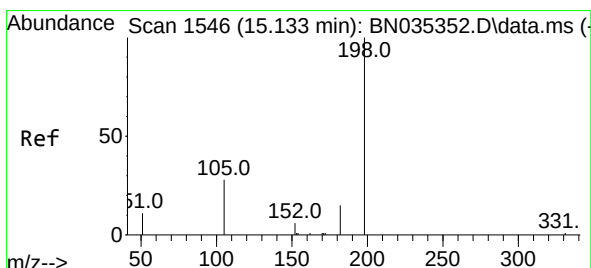
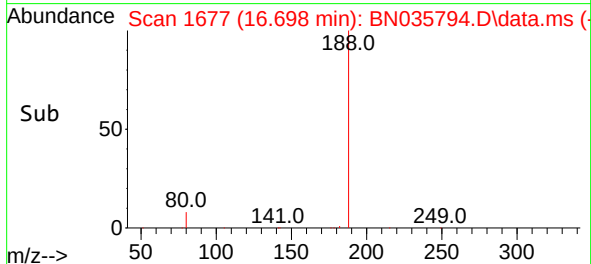
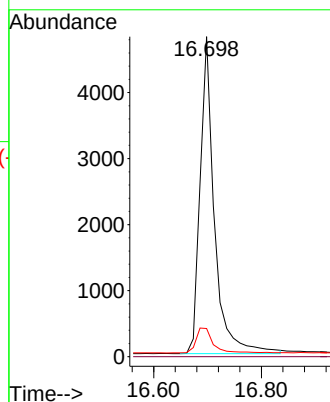
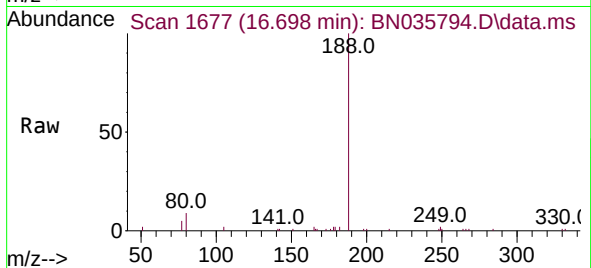
Tgt Ion:188 Resp: 8845

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.254 ng

RT: 15.132 min Scan# 1546

Delta R.T. 0.010 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

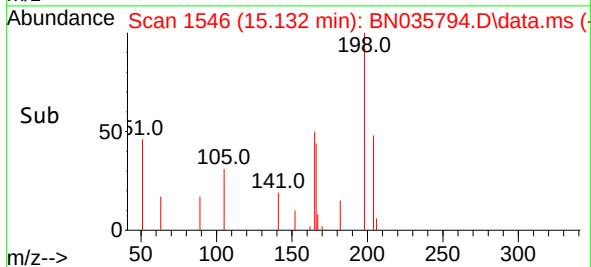
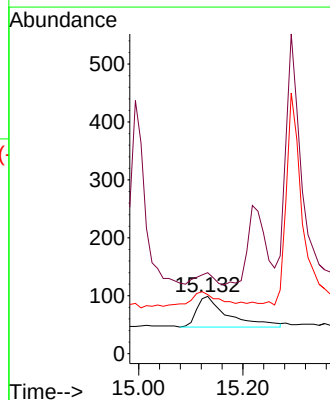
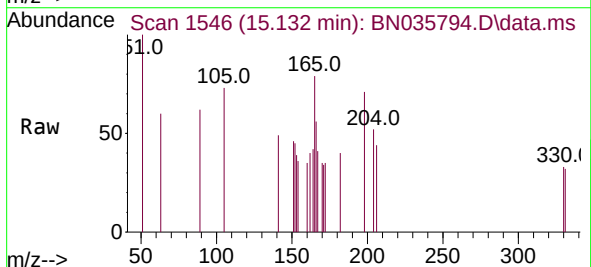
Tgt Ion:198 Resp: 221

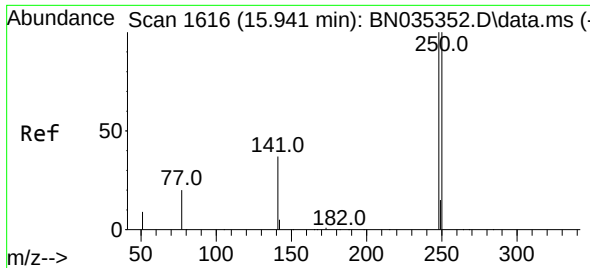
Ion Ratio Lower Upper

198 100

51 141.4 46.5 69.7#

105 103.0 45.3 67.9#

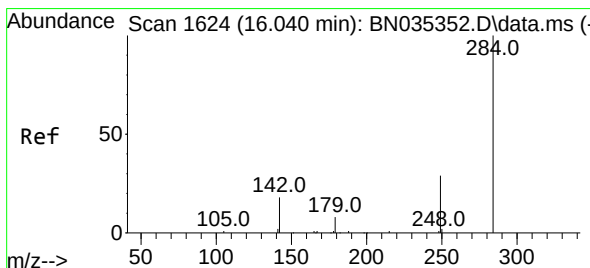
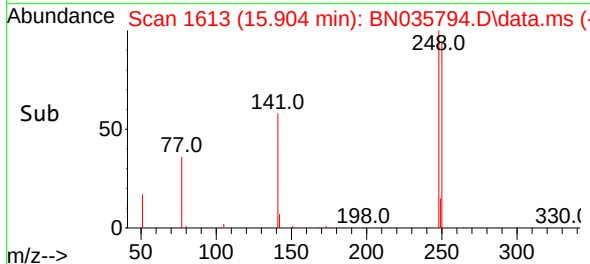
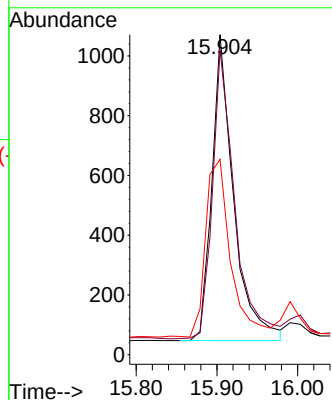
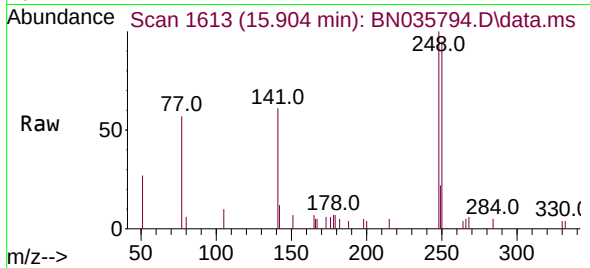




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

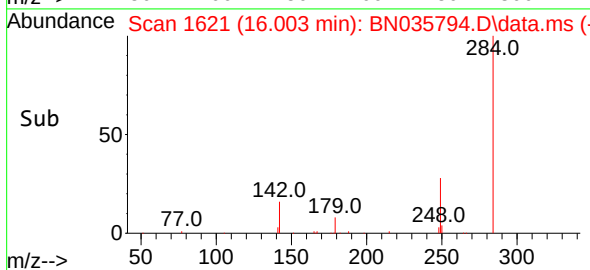
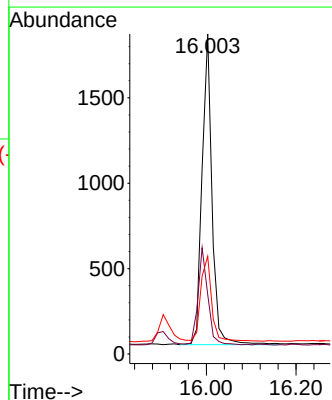
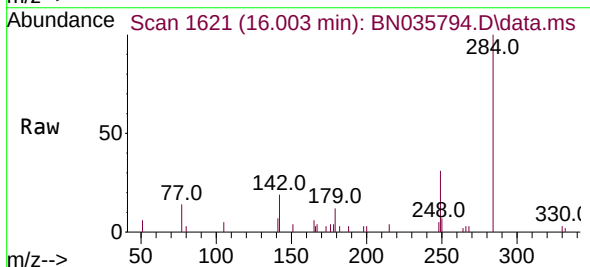
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

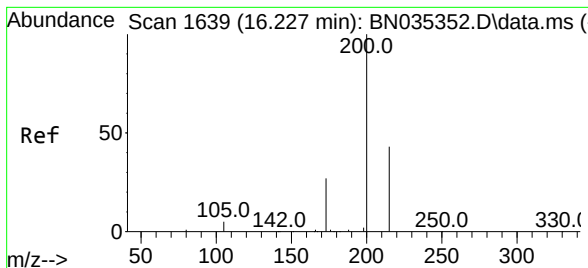
Tgt Ion:248 Resp: 1918
Ion Ratio Lower Upper
248 100
250 95.3 80.6 120.8
141 61.1 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.462 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:284 Resp: 2804
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 30.0 24.6 36.8





#23

Atrazine

Concen: 0.363 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

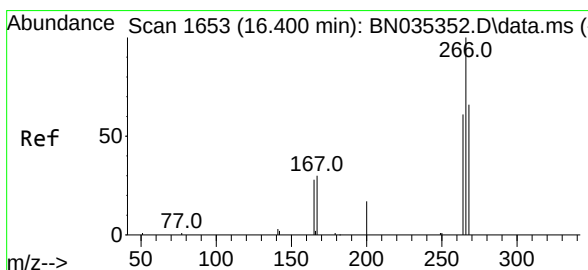
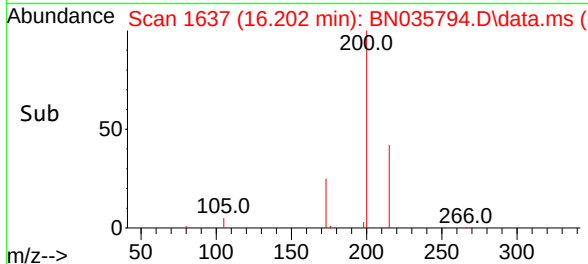
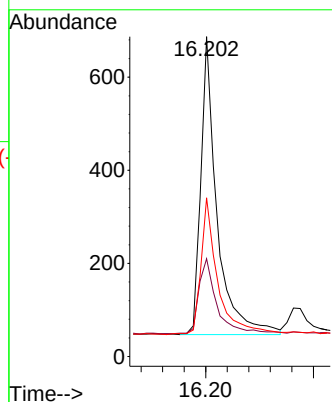
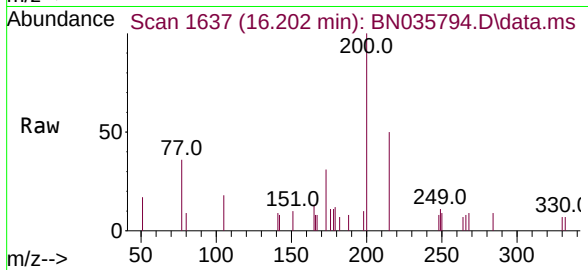
Tgt Ion:200 Resp: 1338

Ion Ratio Lower Upper

200 100

173 30.6 24.1 36.1

215 49.6 36.9 55.3



#24

Pentachlorophenol

Concen: 0.296 ng

RT: 16.375 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

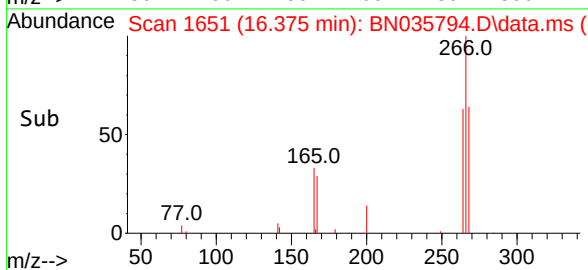
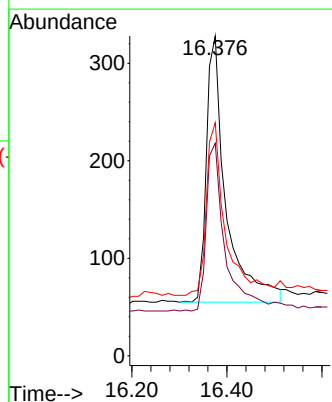
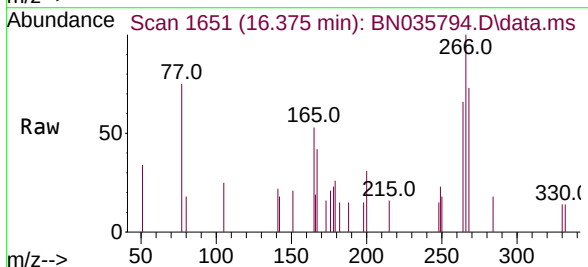
Tgt Ion:266 Resp: 783

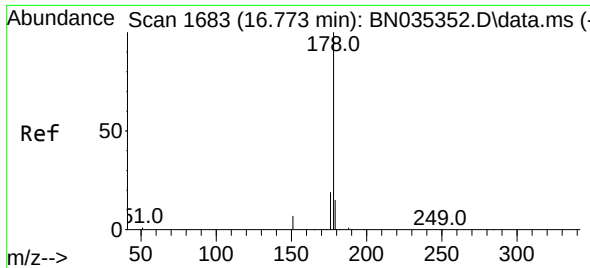
Ion Ratio Lower Upper

266 100

264 62.1 42.3 63.5

268 63.6 43.3 64.9

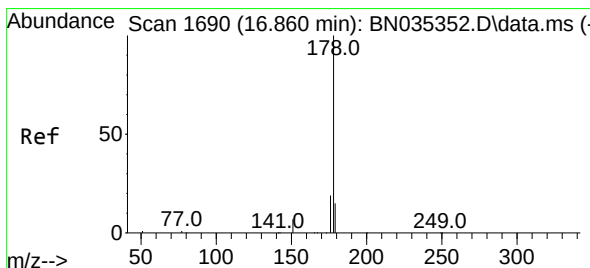
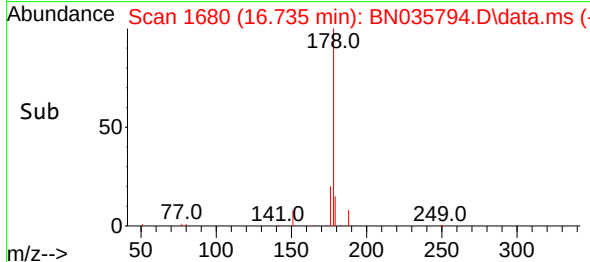
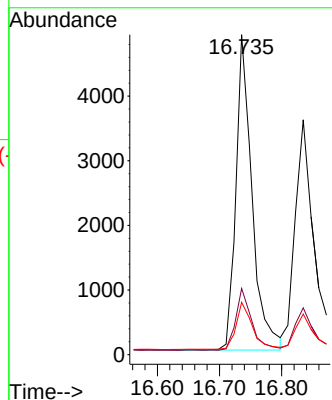
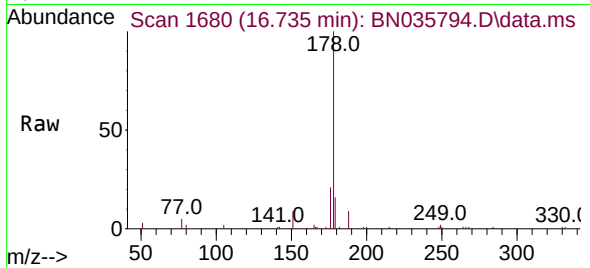




#25
Phenanthrene
Concen: 0.363 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

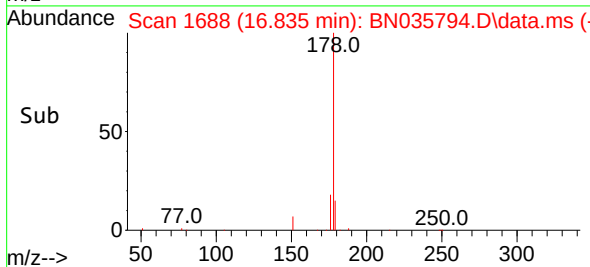
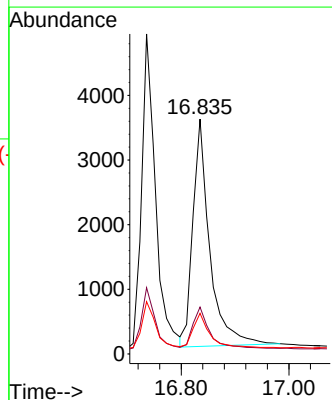
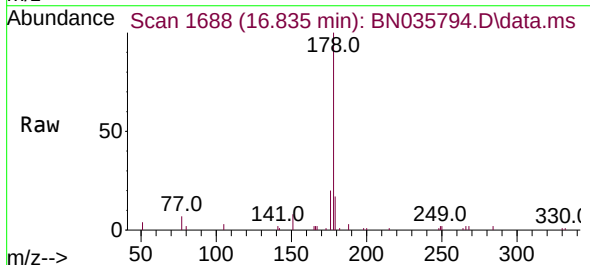
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

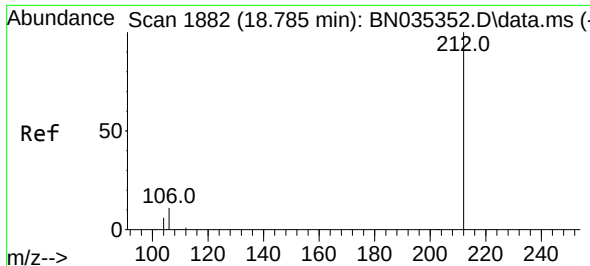
Tgt Ion:178 Resp: 8831
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.349 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 7665
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.3 12.6 18.8

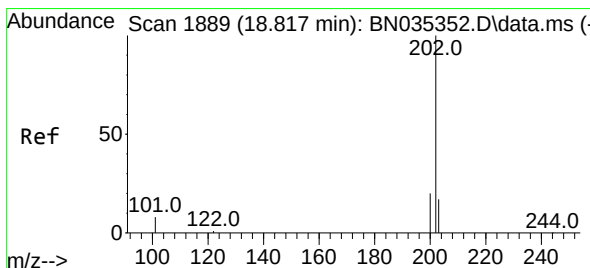
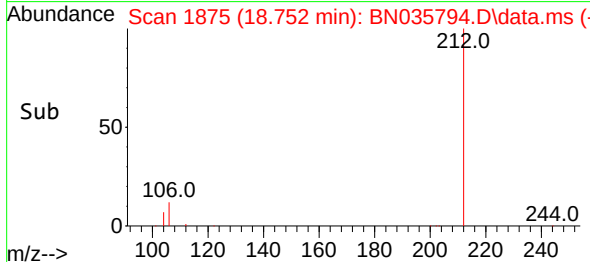
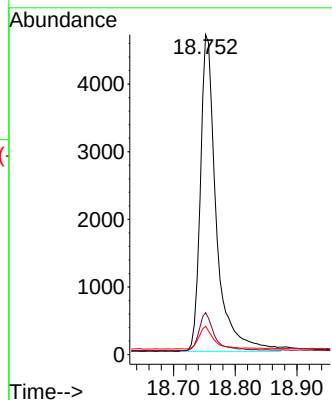
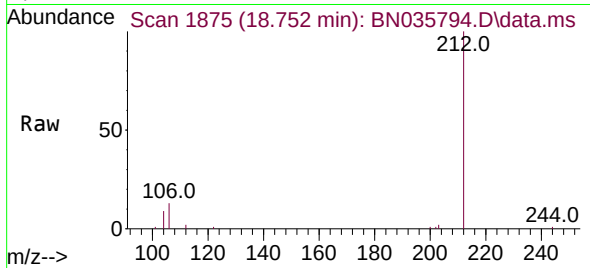




#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 18.752 min Scan# 1882
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

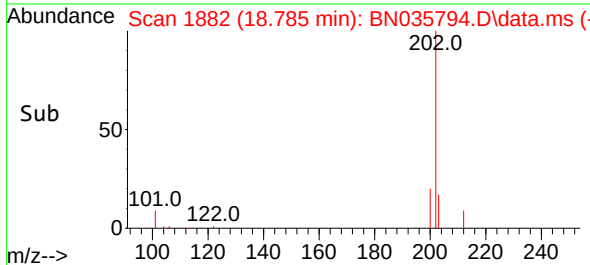
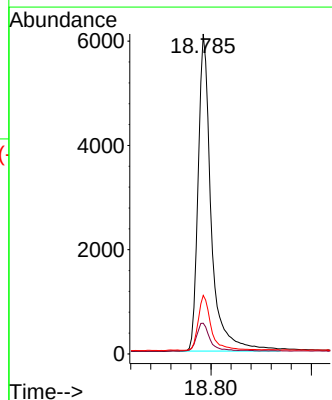
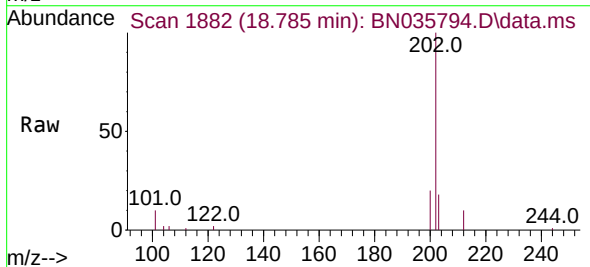
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

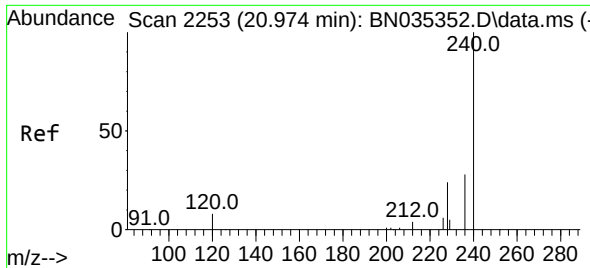
Tgt Ion:212 Resp: 8405
Ion Ratio Lower Upper
212 100
106 11.6 9.2 13.8
104 6.7 5.3 7.9



#28
Fluoranthene
Concen: 0.336 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11004
Ion Ratio Lower Upper
202 100
101 9.2 7.4 11.0
203 17.0 13.7 20.5

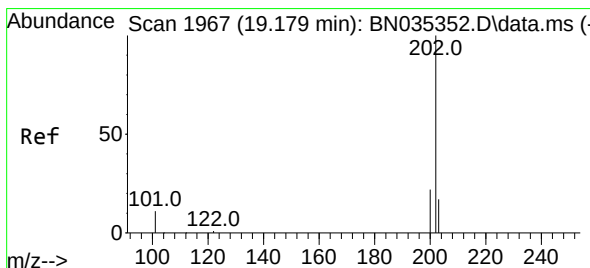
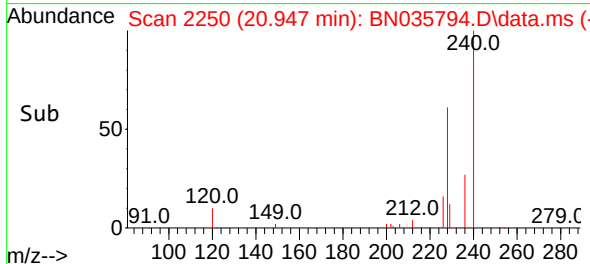
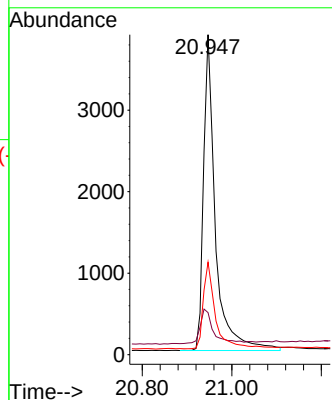
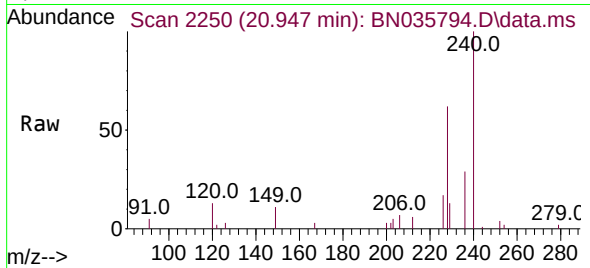




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

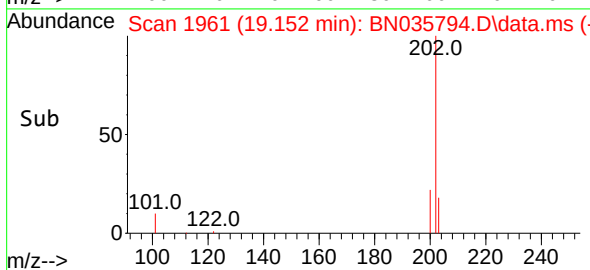
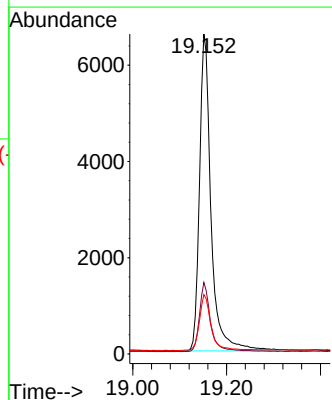
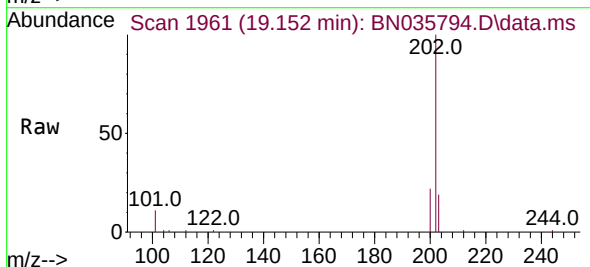
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

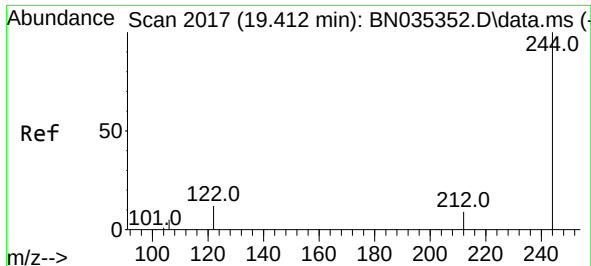
Tgt Ion:240 Resp: 7163
Ion Ratio Lower Upper
240 100
120 13.2 7.9 11.9#
236 28.9 22.9 34.3



#30
Pyrene
Concen: 0.425 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11228
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.4
203 17.7 14.3 21.5

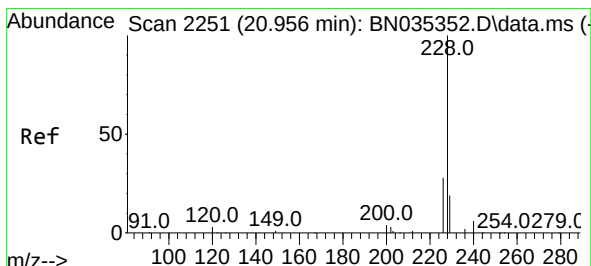
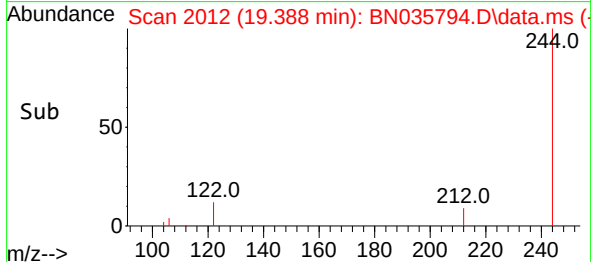
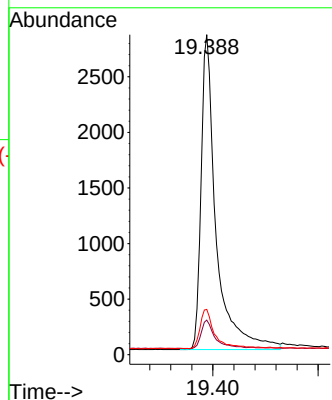
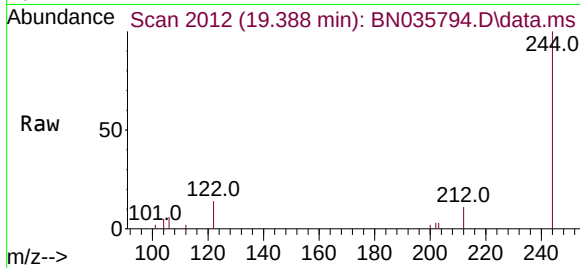




#31
 Terphenyl-d14
 Concen: 0.398 ng
 RT: 19.388 min Scan# 2017
 Delta R.T. -0.000 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

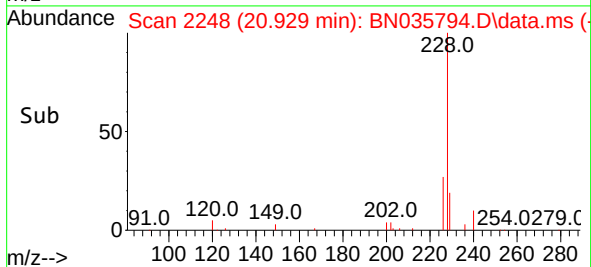
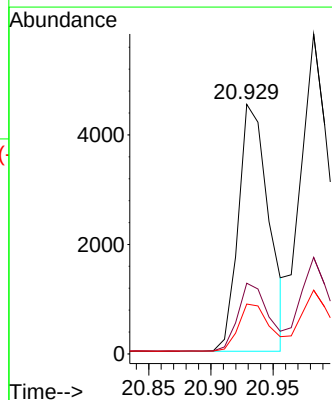
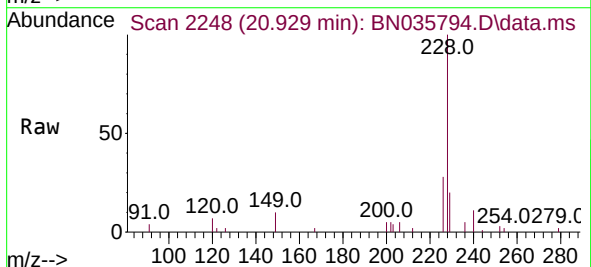
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

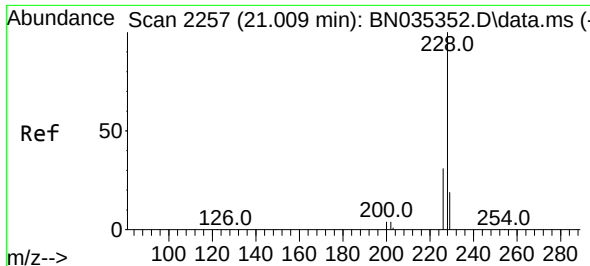
Tgt Ion:244 Resp: 5620
 Ion Ratio Lower Upper
 244 100
 212 10.8 8.1 12.1
 122 14.2 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.308 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

Tgt Ion:228 Resp: 7716
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.5 33.7
 229 20.0 15.8 23.8

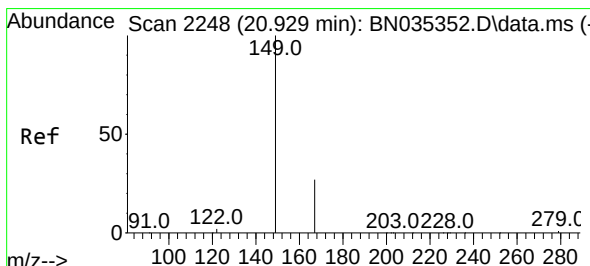
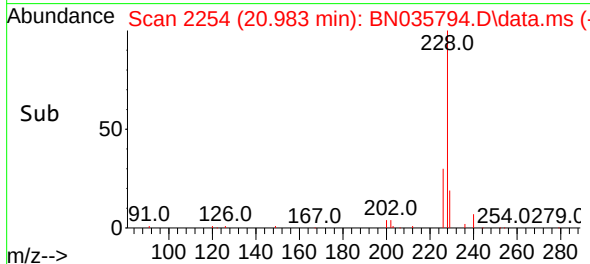
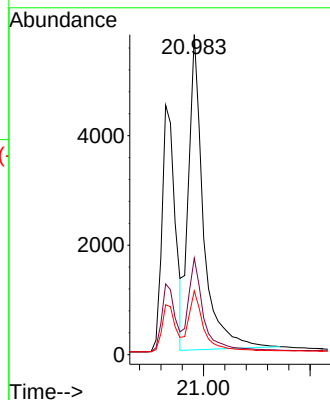
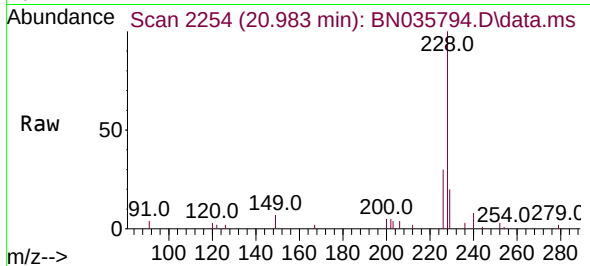




#33
 Chrysene
 Concen: 0.431 ng
 RT: 20.983 min Scan# 21129
 Delta R.T. -0.009 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

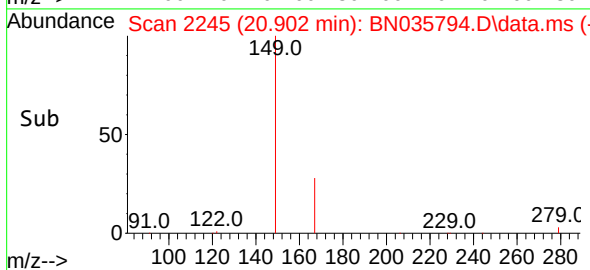
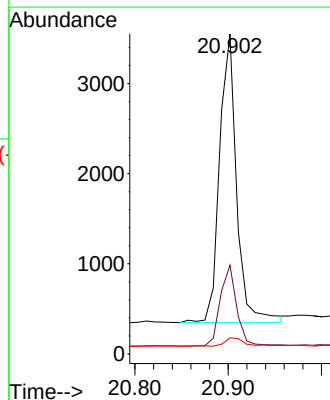
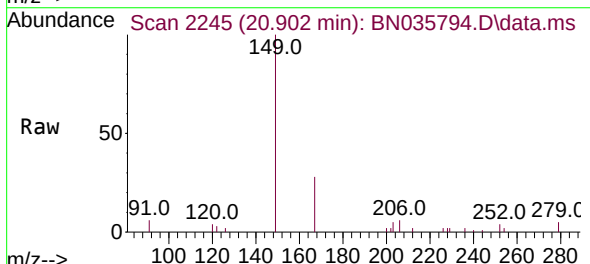
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

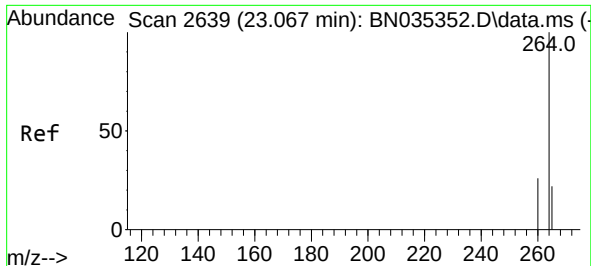
Tgt Ion:228	Resp:	11129
Ion Ratio	Lower	Upper
228	100	
226	30.2	24.6 37.0
229	19.9	15.9 23.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.411 ng
 RT: 20.902 min Scan# 2245
 Delta R.T. -0.009 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

Tgt Ion:149	Resp:	4068
Ion Ratio	Lower	Upper
149	100	
167	27.3	22.2 33.4
279	3.6	2.7 4.1

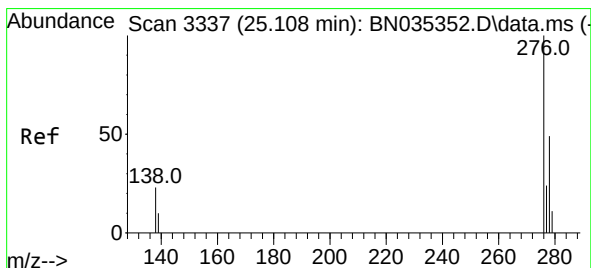
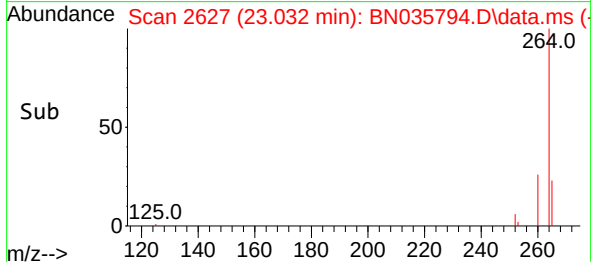
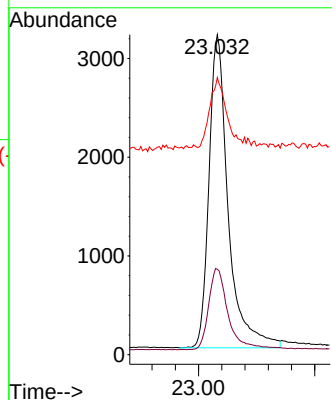
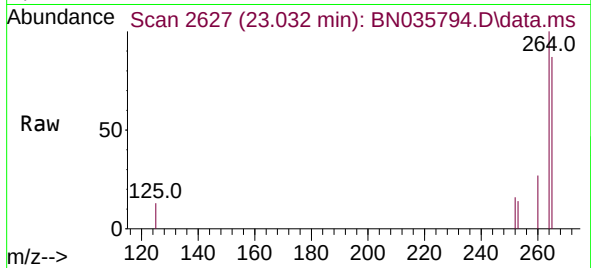




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.032 min Scan# 2627
 Delta R.T. -0.009 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

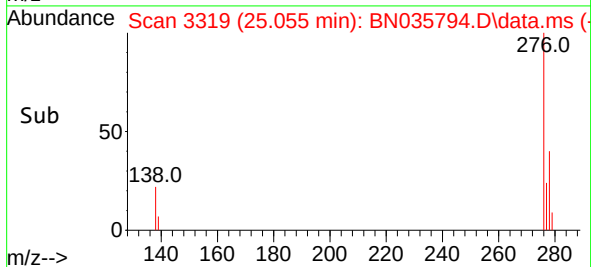
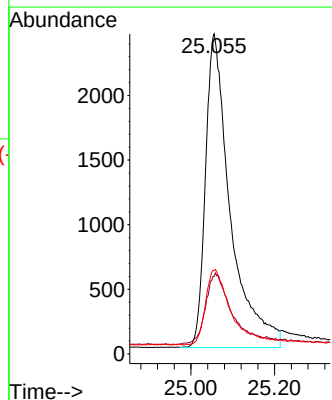
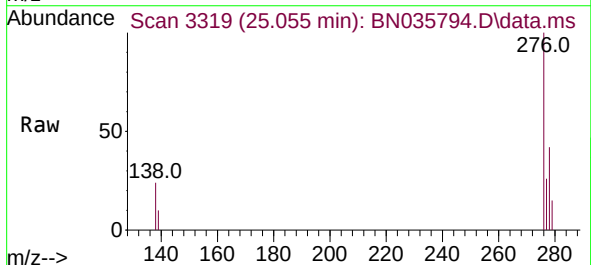
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

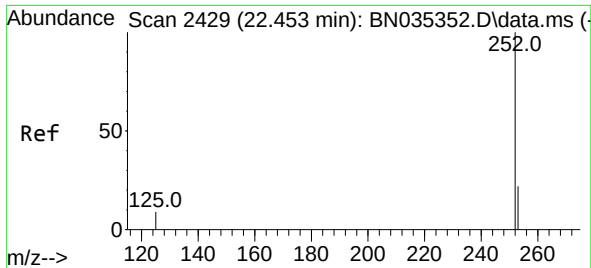
Tgt Ion:264 Resp: 7277
 Ion Ratio Lower Upper
 264 100
 260 26.7 21.4 32.2
 265 86.6 40.2 60.4#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.352 ng
 RT: 25.055 min Scan# 3319
 Delta R.T. -0.012 min
 Lab File: BN035794.D
 Acq: 23 Dec 2024 22:16

Tgt Ion:276 Resp: 10012
 Ion Ratio Lower Upper
 276 100
 138 22.3 19.4 29.0
 277 24.6 19.8 29.6

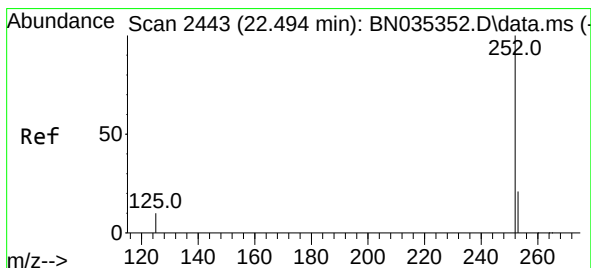
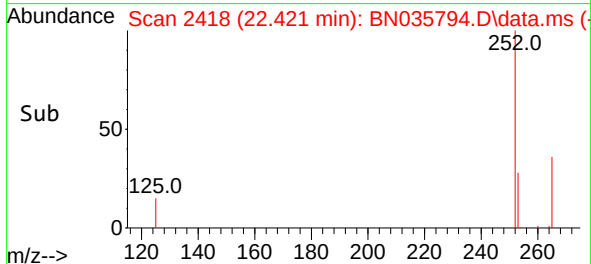
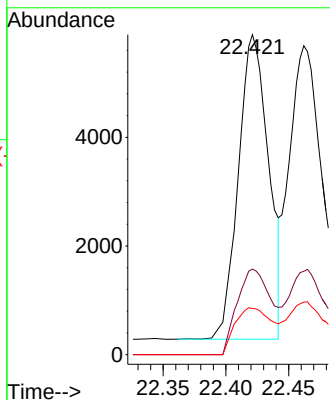
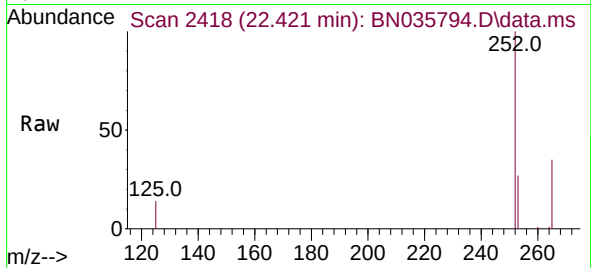




#37
Benzo(b)fluoranthene
Concen: 0.533 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

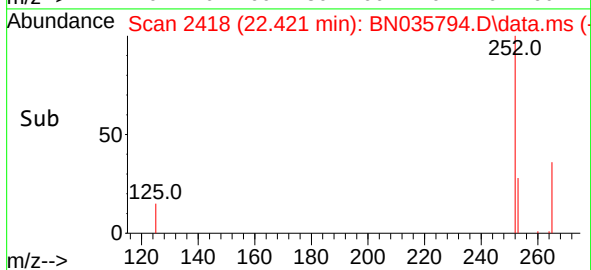
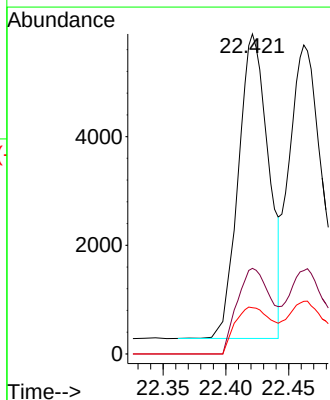
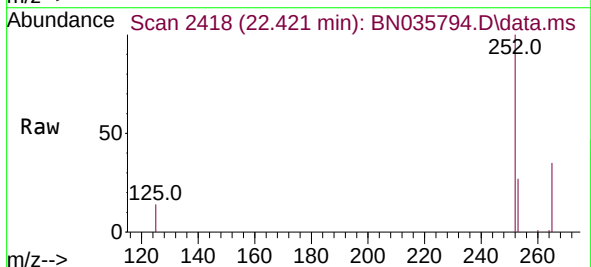
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

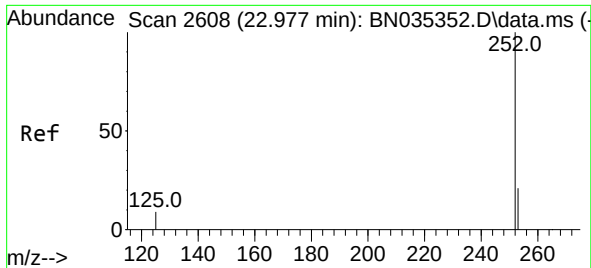
Tgt Ion:252 Resp: 14187
Ion Ratio Lower Upper
252 100
253 26.7 19.6 29.4
125 14.5 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.541 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.050 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:252 Resp: 14187
Ion Ratio Lower Upper
252 100
253 26.7 19.5 29.3
125 14.5 10.2 15.4

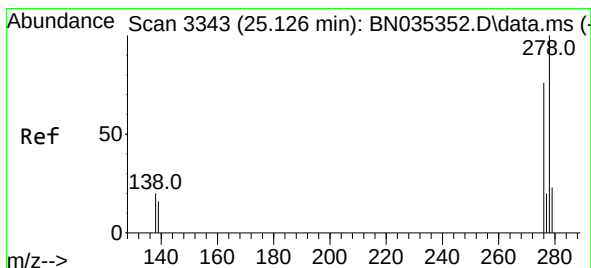
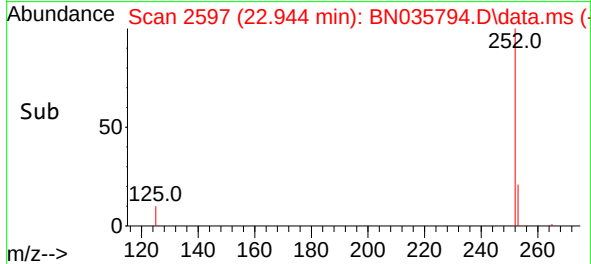
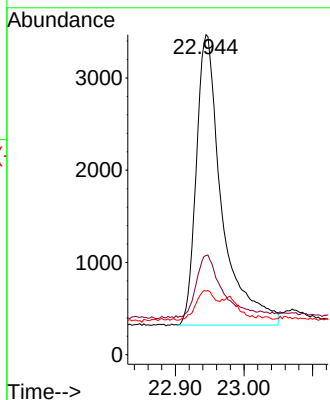
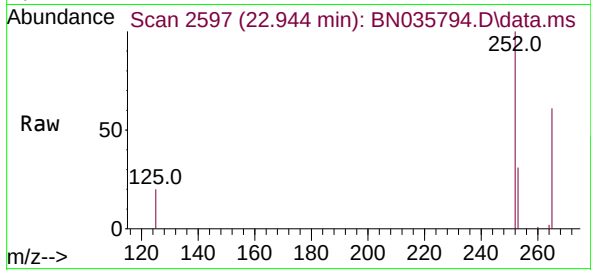




#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.944 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

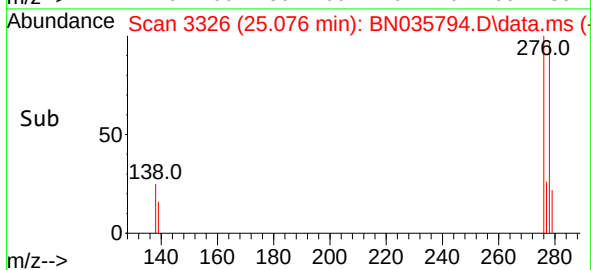
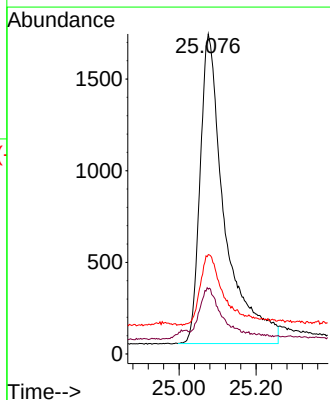
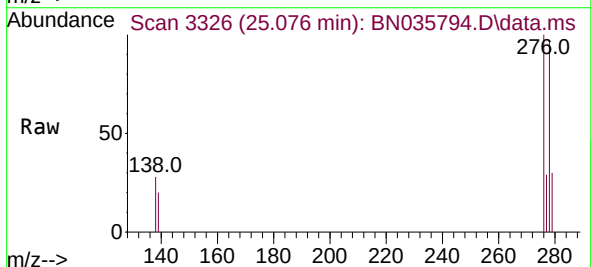
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

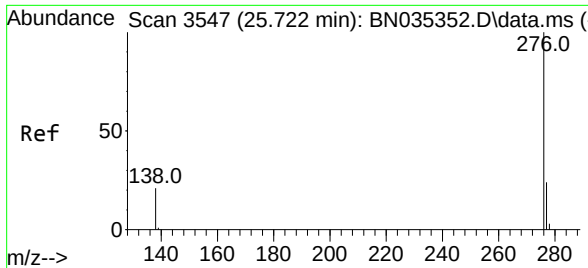
Tgt Ion:252 Resp: 8141
Ion Ratio Lower Upper
252 100
253 31.0 20.2 30.4#
125 19.9 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.333 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Tgt Ion:278 Resp: 7465
Ion Ratio Lower Upper
278 100
139 20.3 14.2 21.4
279 31.0 20.5 30.7#

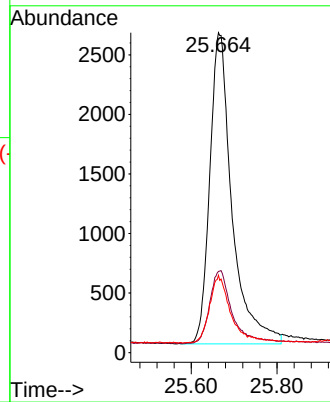
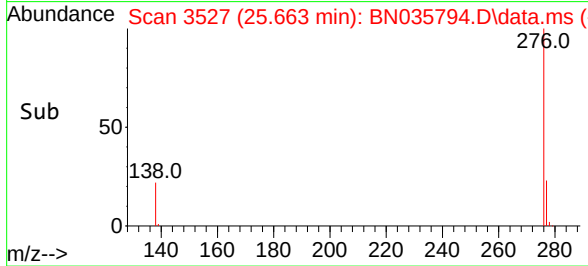
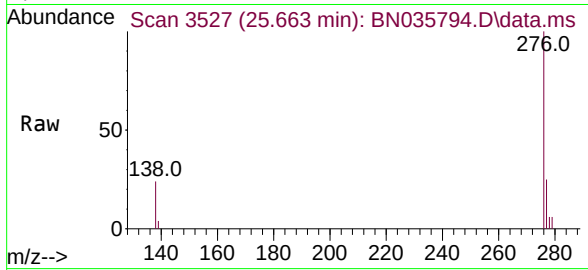




#41
Benzo(g,h,i)perylene
Concen: 0.401 ng
RT: 25.663 min Scan# 31
Delta R.T. -0.015 min
Lab File: BN035794.D
Acq: 23 Dec 2024 22:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:	276	Resp:	9418
Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	24.2	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035795.D
 Acq On : 23 Dec 2024 22:52
 Operator : RC/JU
 Sample : PB165667BL
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165667BL

Quant Time: Dec 24 00:13:30 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4926	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11442	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	7253	0.400	ng	-0.01
19) Phenanthrene-d10	16.711	188	12605	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	9944	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	9785	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3783	0.307	ng	0.00
5) Phenol-d6	6.484	99	3587	0.242	ng	0.00
8) Nitrobenzene-d5	8.408	82	3704	0.530	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	6566	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	426	0.083	ng	0.02
15) 2-Fluorobiphenyl	12.549	172	9720	0.355	ng	0.00
27) Fluoranthene-d10	18.761	212	13649	0.382	ng	0.00
31) Terphenyl-d14	19.388	244	11020	0.562	ng	0.00

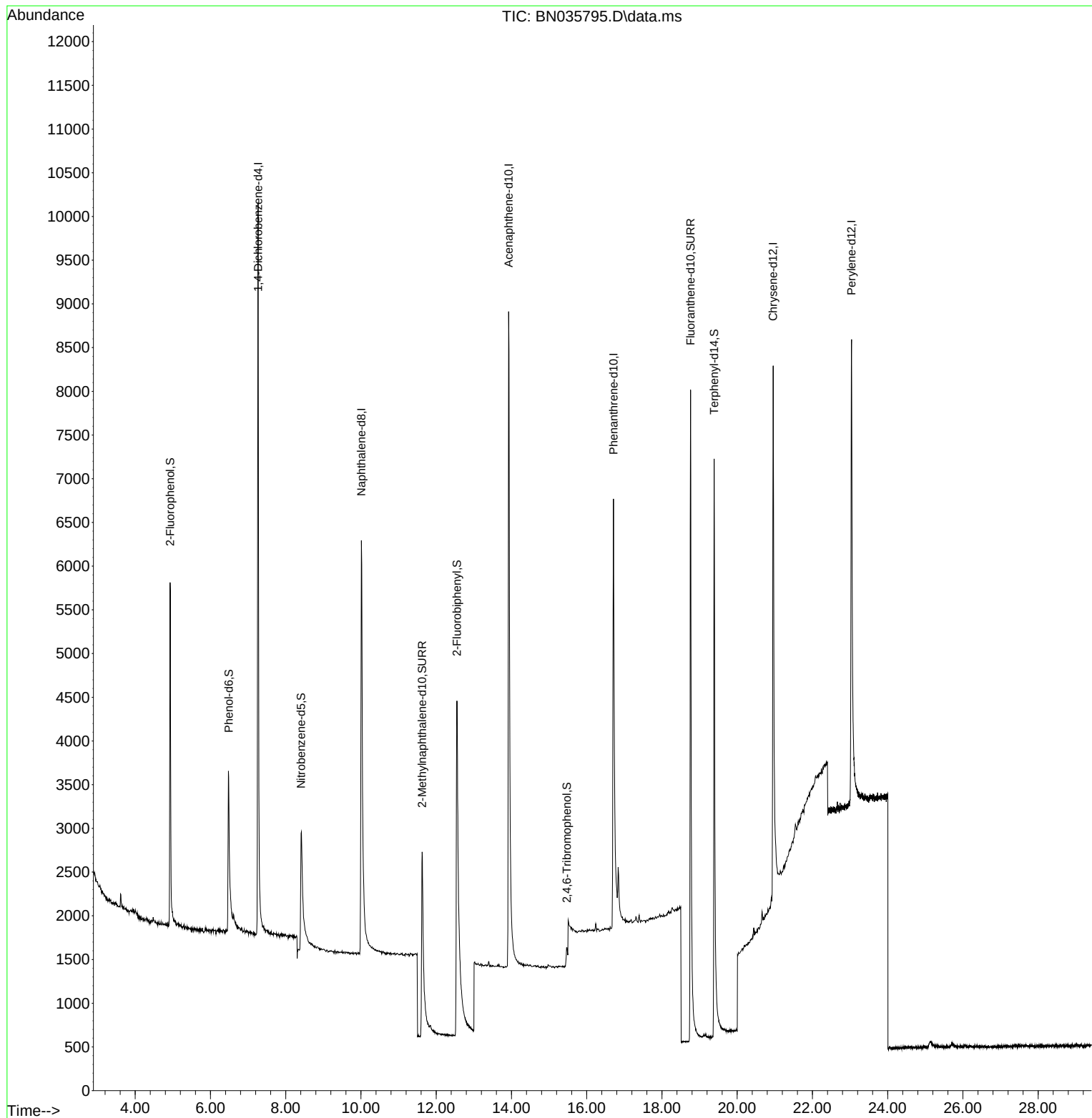
Target Compounds Qvalue

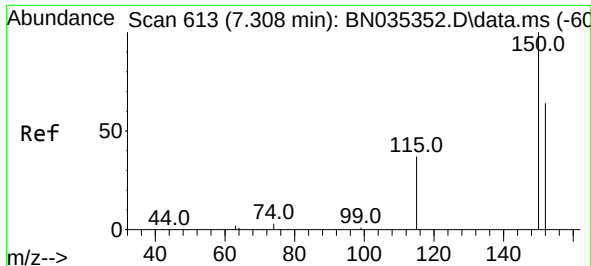
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035795.D
Acq On : 23 Dec 2024 22:52
Operator : RC/JU
Sample : PB165667BL
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BL

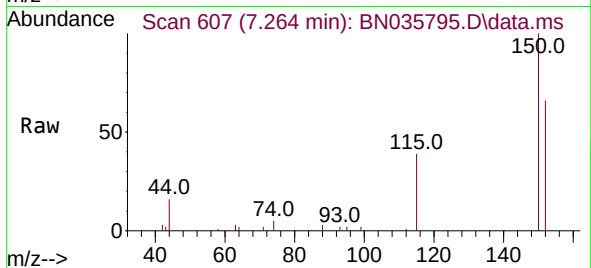
Quant Time: Dec 24 00:13:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



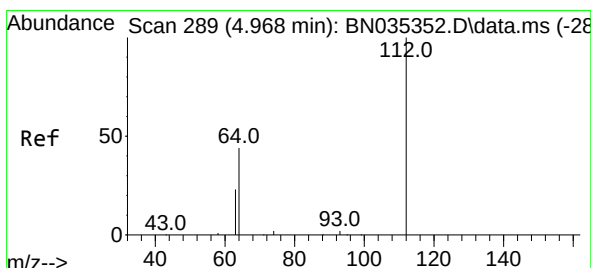
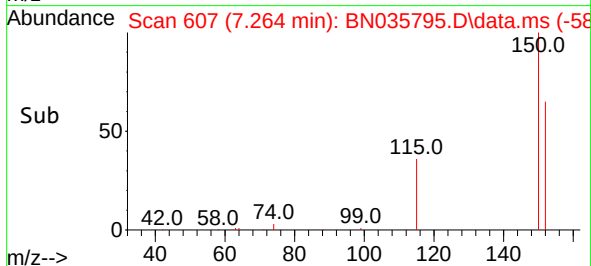
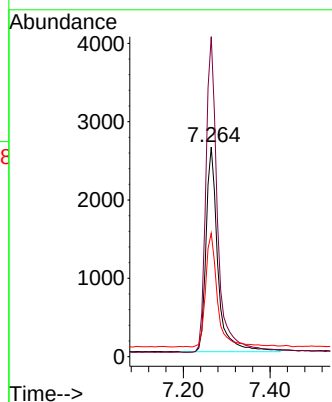


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 613
Delta R.T. -0.008 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

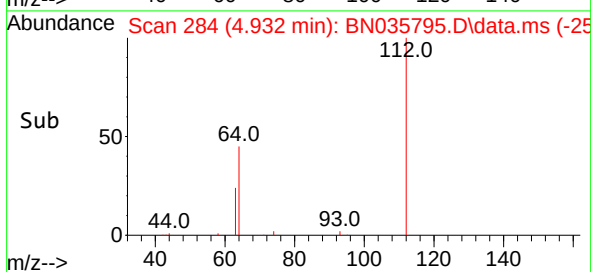
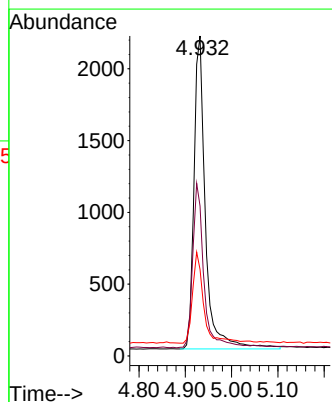
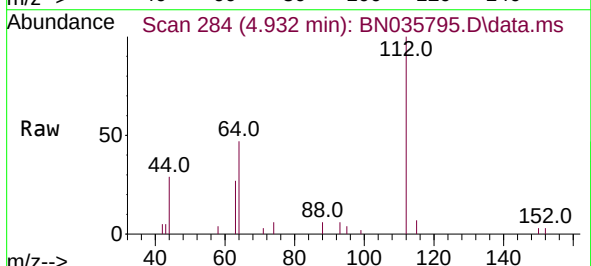


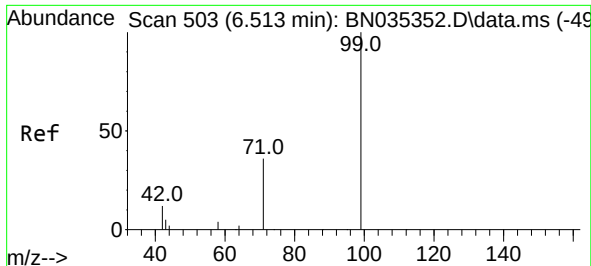
Tgt Ion:152 Resp: 4926
Ion Ratio Lower Upper
152 100
150 152.7 124.0 186.0
115 58.9 49.6 74.4



#4
2-Fluorophenol
Concen: 0.307 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:112 Resp: 3783
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 28.0 21.0 31.6

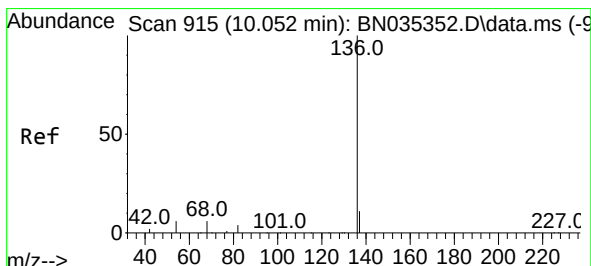
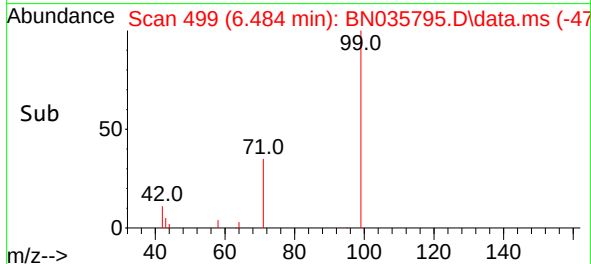
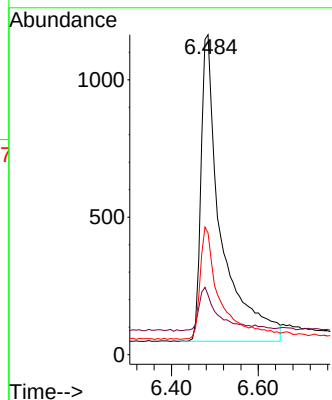
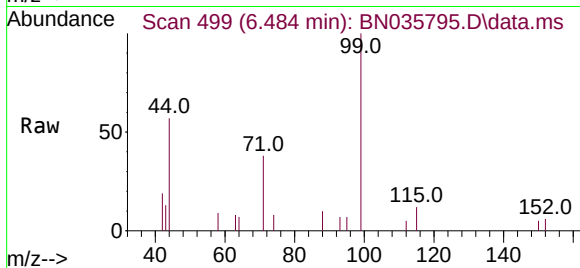




#5
Phenol-d6
Concen: 0.242 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

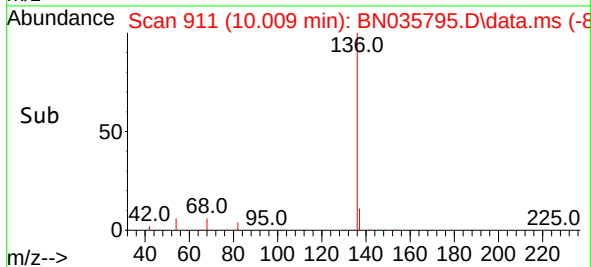
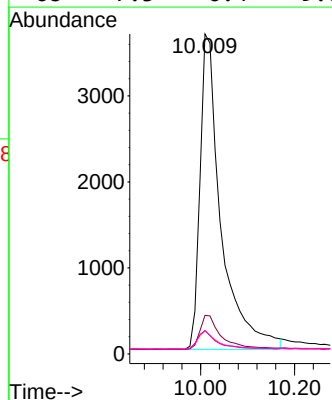
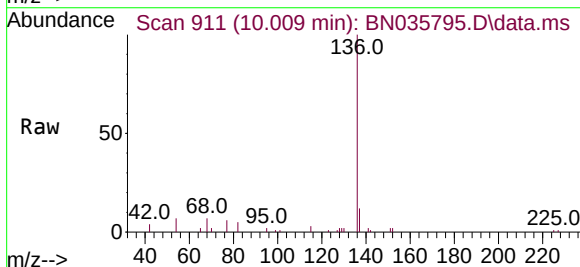
Instrument :
BNA_N
ClientSampleId :
PB165667BL

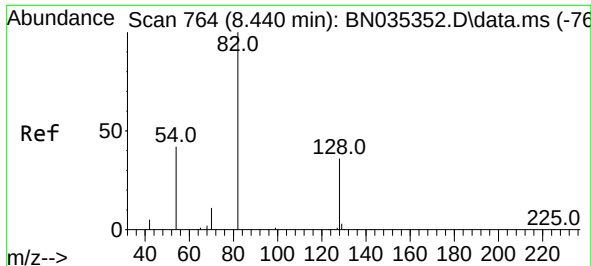
Tgt Ion:	99	Resp:	3587
Ion	Ratio	Lower	Upper
99	100		
42	13.1	11.4	17.2
71	37.0	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:	136	Resp:	11442
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	7.3	6.1	9.1
68	7.3	6.4	9.6

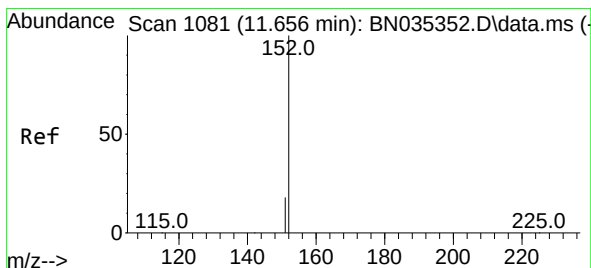
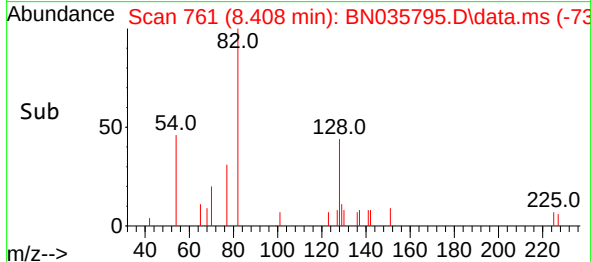
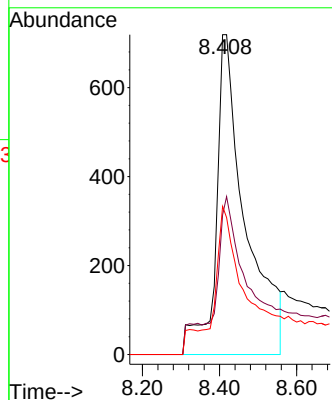
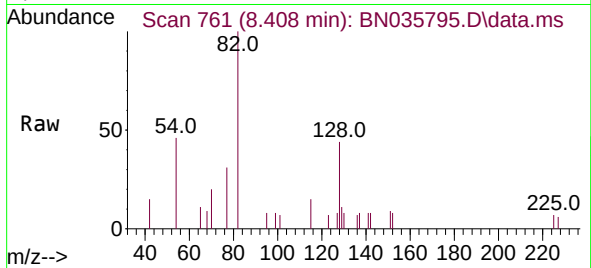




#8
Nitrobenzene-d5
Concen: 0.530 ng
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

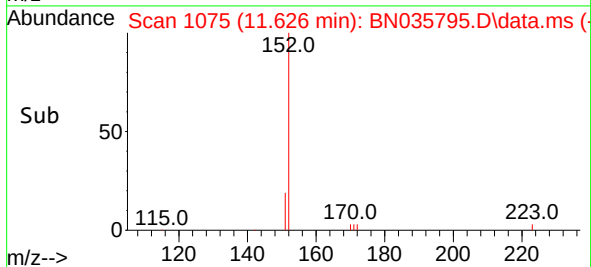
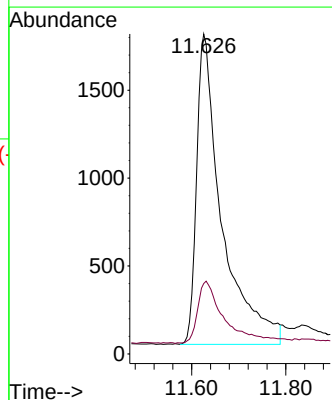
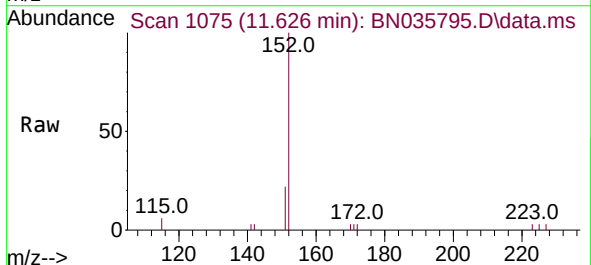
Instrument :
BNA_N
ClientSampleId :
PB165667BL

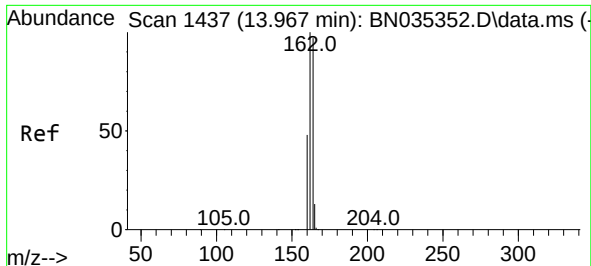
Tgt Ion: 82 Resp: 3704
Ion Ratio Lower Upper
82 100
128 43.7 33.4 50.0
54 46.3 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.626 min Scan# 1075
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion: 152 Resp: 6566
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0

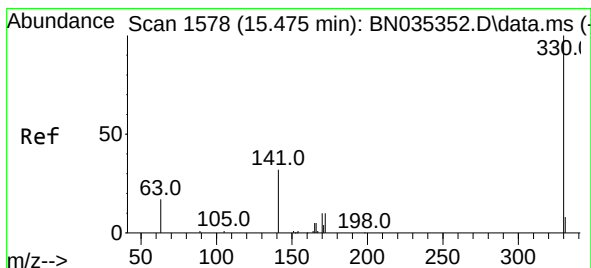
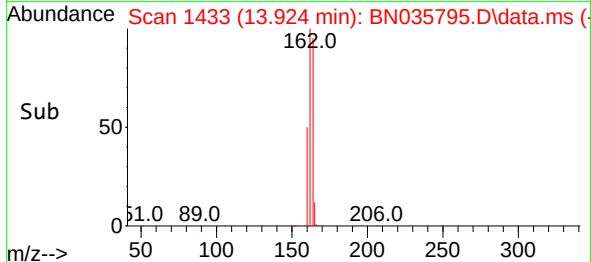
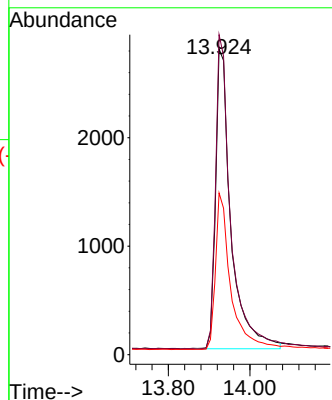
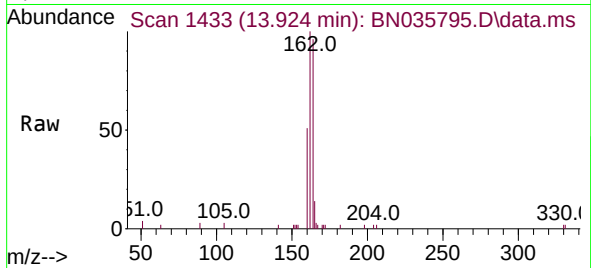




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

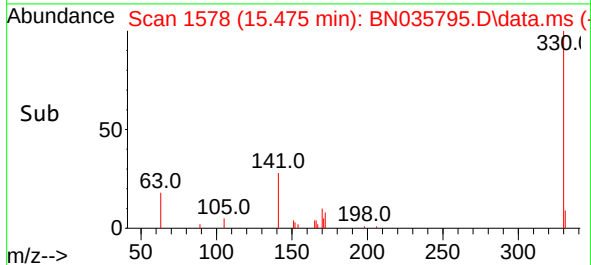
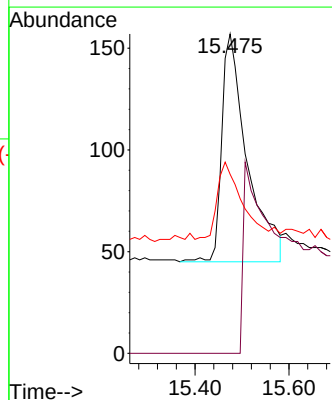
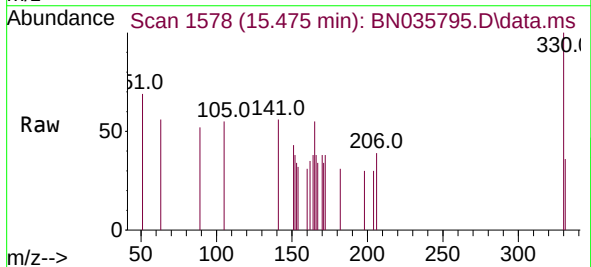
Instrument :
BNA_N
ClientSampleId :
PB165667BL

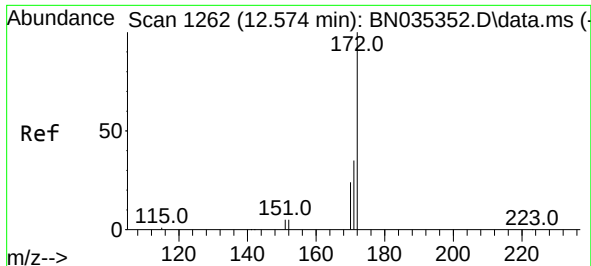
Tgt Ion:164 Resp: 7253
Ion Ratio Lower Upper
164 100
162 104.6 82.2 123.2
160 52.9 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:330 Resp: 426
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.6 26.6 40.0

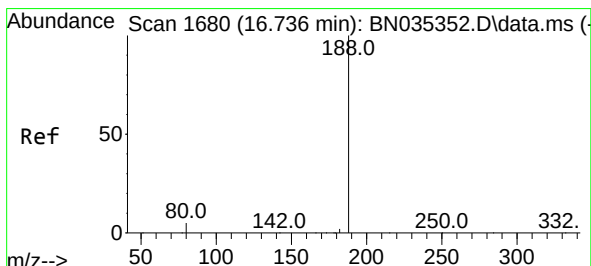
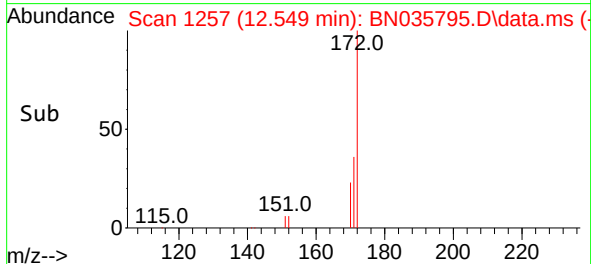
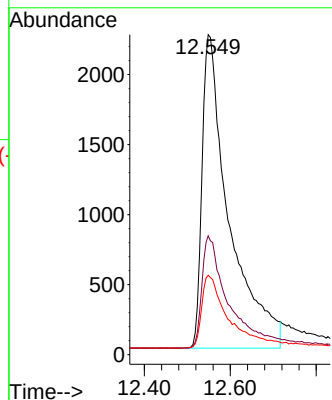
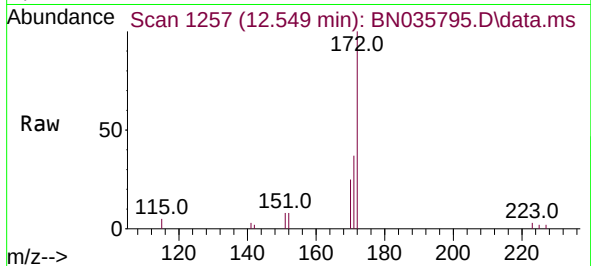




#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.549 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

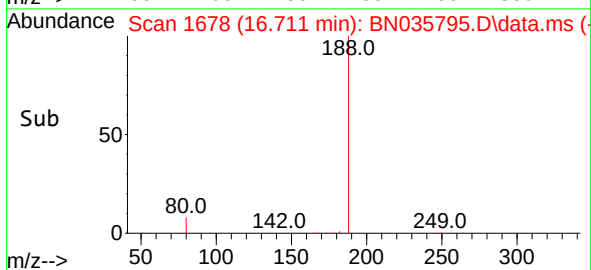
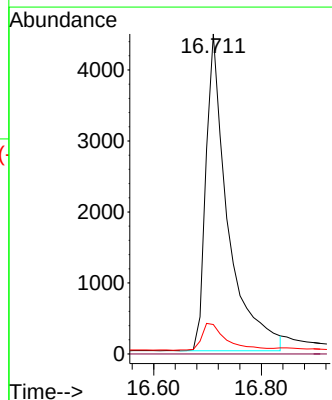
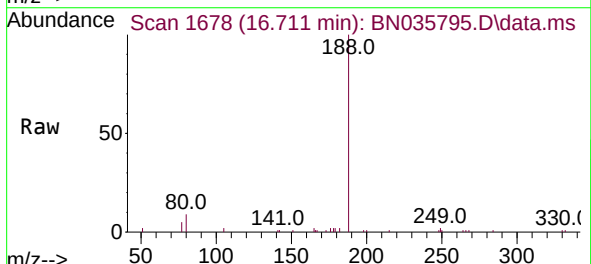
Instrument :
BNA_N
ClientSampleId :
PB165667BL

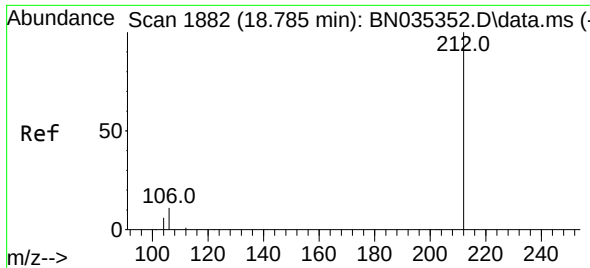
Tgt Ion:172 Resp: 9720
Ion Ratio Lower Upper
172 100
171 37.2 29.0 43.4
170 24.8 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:188 Resp: 12605
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 4.6 6.8#

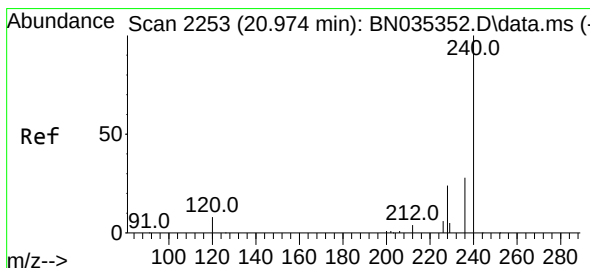
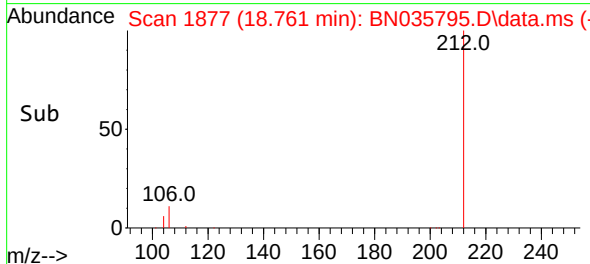
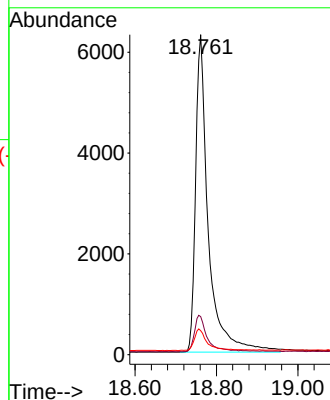
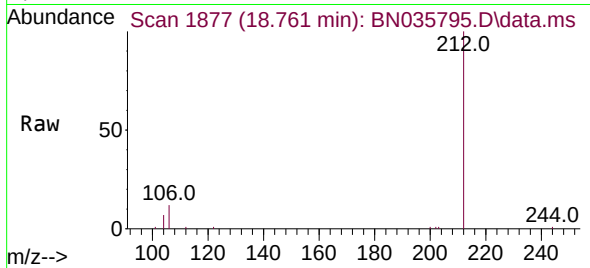




#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 18.761 min Scan# 1877
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

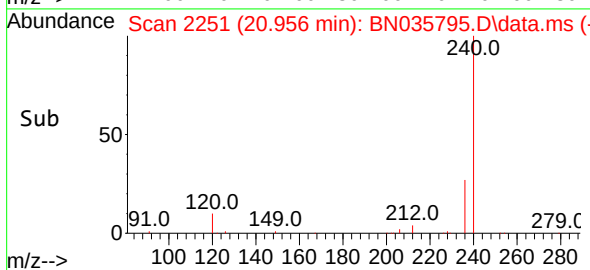
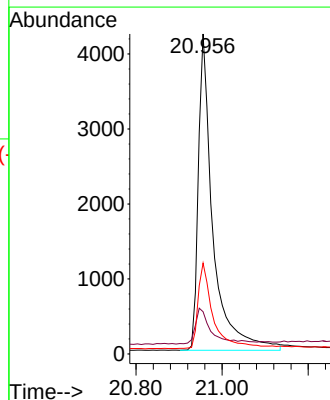
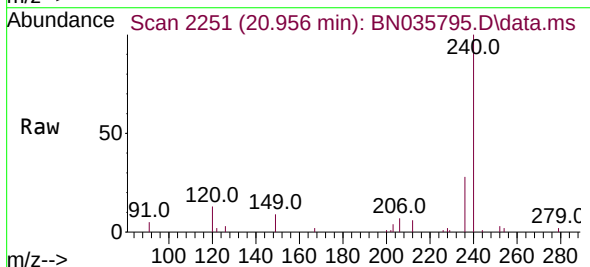
Instrument :
BNA_N
ClientSampleId :
PB165667BL

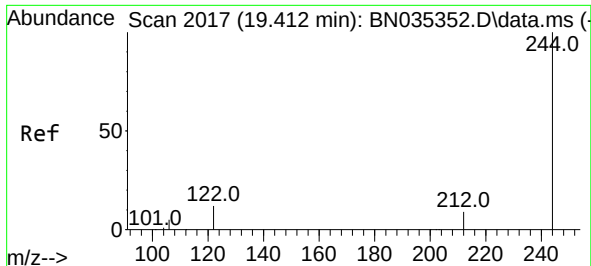
Tgt Ion:212 Resp: 13649
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.6 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

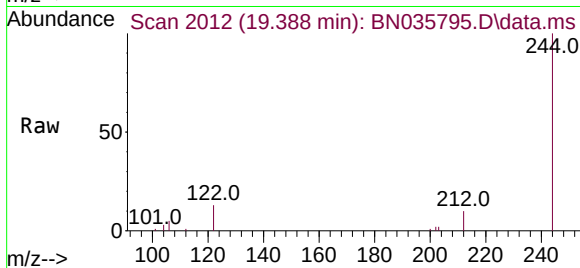
Tgt Ion:240 Resp: 9944
Ion Ratio Lower Upper
240 100
120 13.2 7.9 11.9#
236 28.4 22.9 34.3



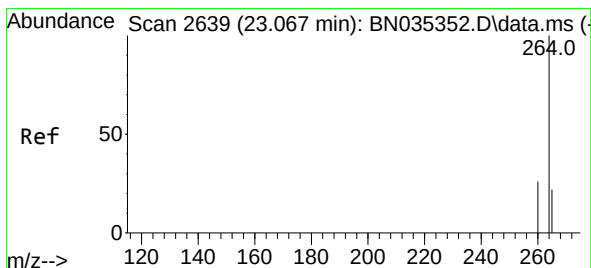
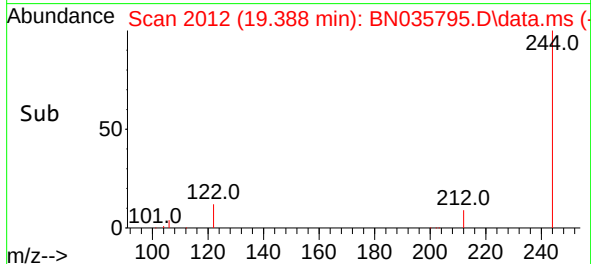
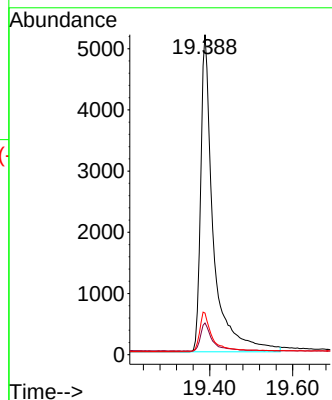


#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.388 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Instrument :
BNA_N
ClientSampleId :
PB165667BL

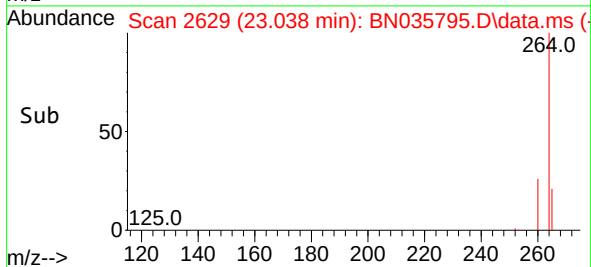
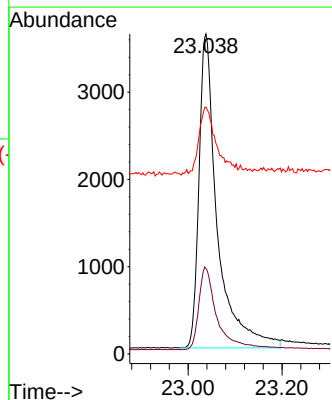
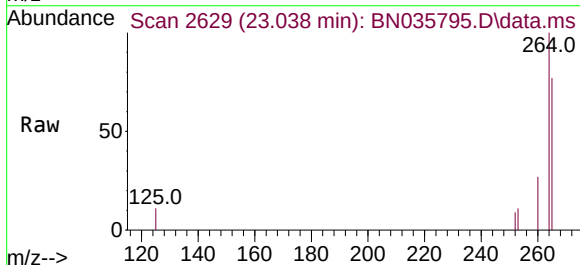


Tgt Ion:244 Resp: 11020
Ion Ratio Lower Upper
244 100
212 9.9 8.1 12.1
122 13.0 10.3 15.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035795.D
Acq: 23 Dec 2024 22:52

Tgt Ion:264 Resp: 9785
Ion Ratio Lower Upper
264 100
260 26.7 21.4 32.2
265 77.1 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035801.D
 Acq On : 24 Dec 2024 02:25
 Operator : RC/JU
 Sample : P5282-01
 Misc :
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212

Quant Time: Dec 24 03:21:17 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)

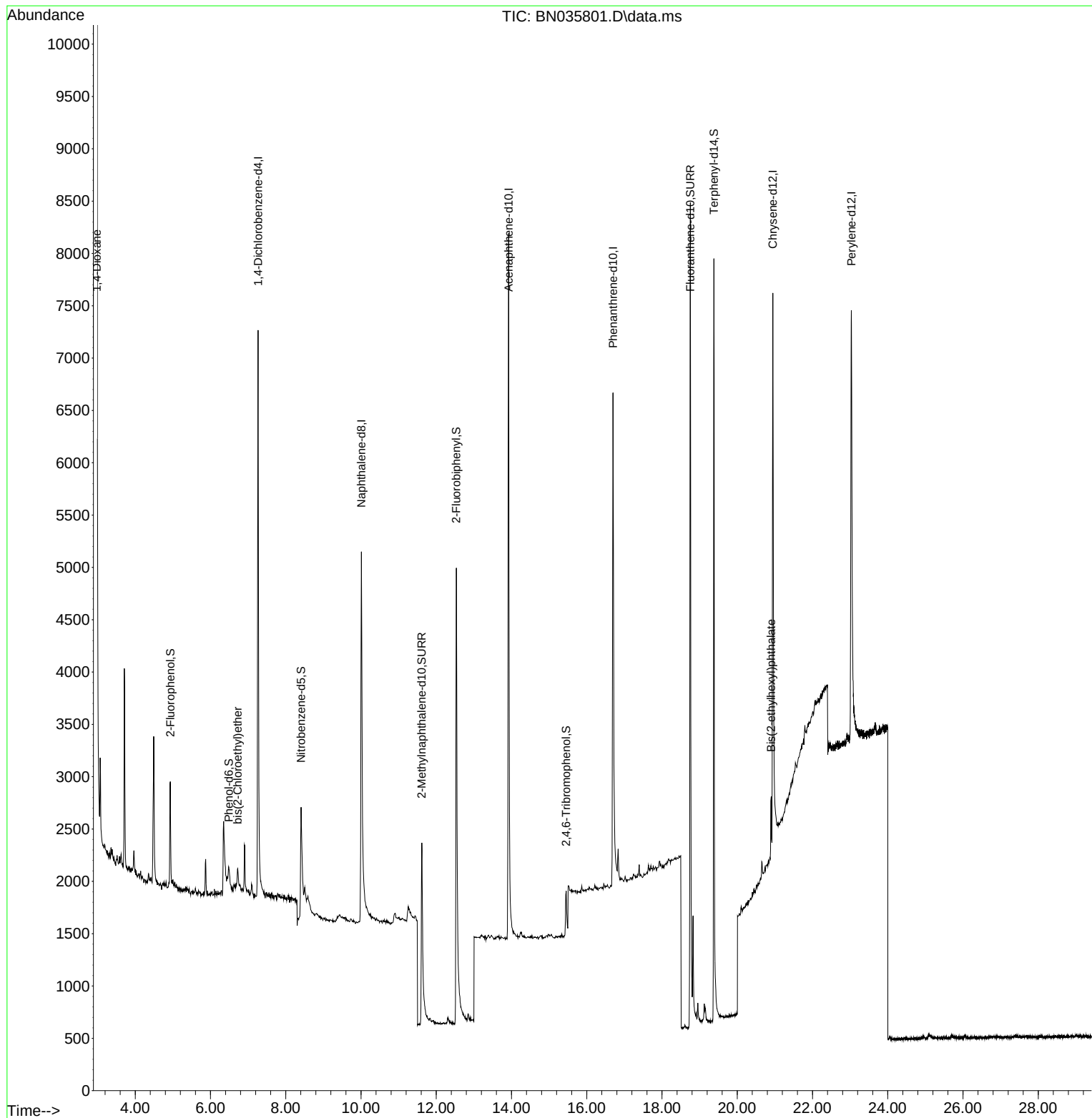
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3177	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7310	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4565	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8849	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7146	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6969	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	978	0.123	ng	0.00
5) Phenol-d6	6.484	99	505	0.053	ng	0.00
8) Nitrobenzene-d5	8.408	82	2236	0.501	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4222	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	599	0.185	ng	0.00
15) 2-Fluorobiphenyl	12.534	172	6574	0.381	ng	-0.01
27) Fluoranthene-d10	18.752	212	11295	0.450	ng	0.00
31) Terphenyl-d14	19.379	244	8274	0.587	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	18124	5.967	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	204	0.025	ng	# 73
34) Bis(2-ethylhexyl)phtha...	20.902	149	657	0.067	ng	98

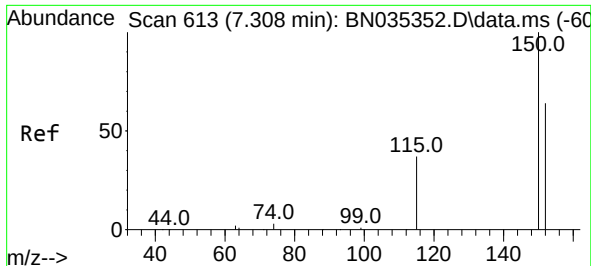
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035801.D
Acq On : 24 Dec 2024 02:25
Operator : RC/JU
Sample : P5282-01
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

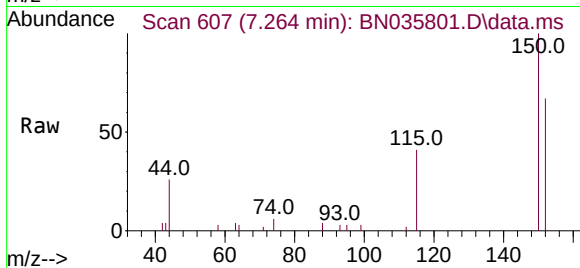
Quant Time: Dec 24 03:21:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



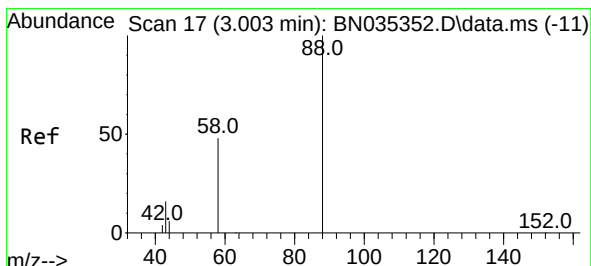
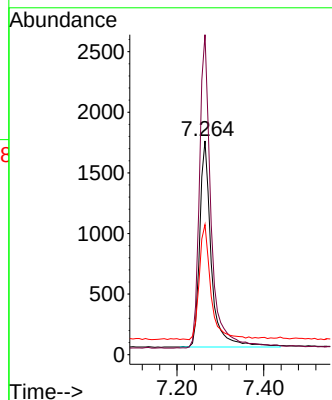
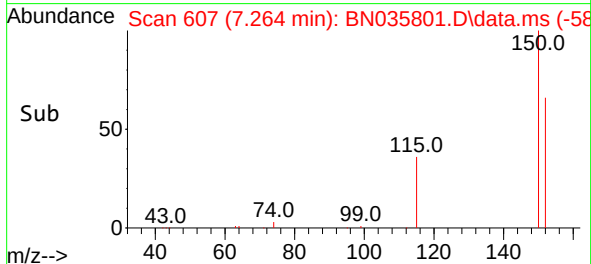


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 60
 Delta R.T. -0.008 min
 Lab File: BN035801.D
 Acq: 24 Dec 2024 02:25

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212

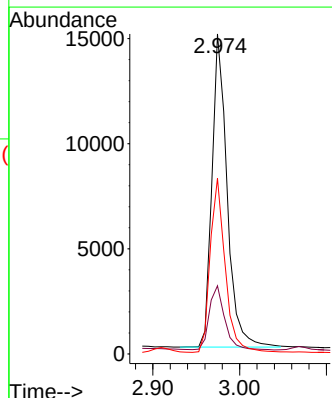
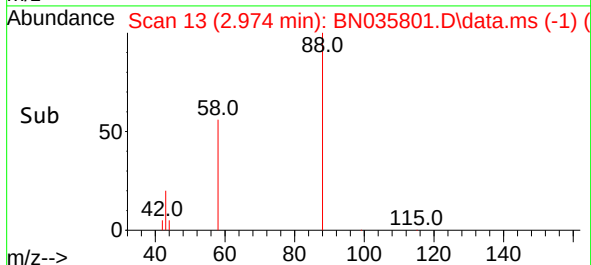
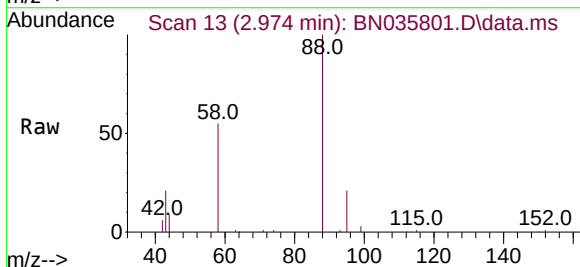


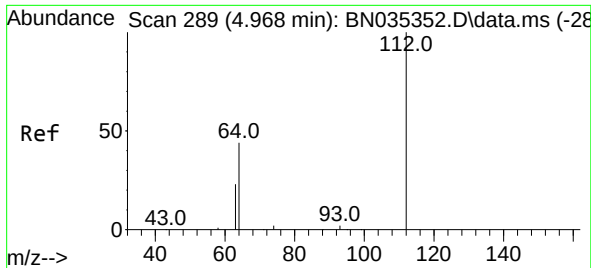
Tgt Ion:152 Resp: 3177
 Ion Ratio Lower Upper
 152 100
 150 149.7 124.0 186.0
 115 60.8 49.6 74.4



#2
 1,4-Dioxane
 Concen: 5.967 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035801.D
 Acq: 24 Dec 2024 02:25

Tgt Ion: 88 Resp: 18124
 Ion Ratio Lower Upper
 88 100
 43 20.9 17.2 25.8
 58 55.1 44.5 66.7

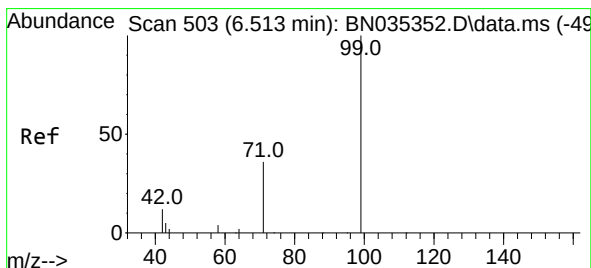
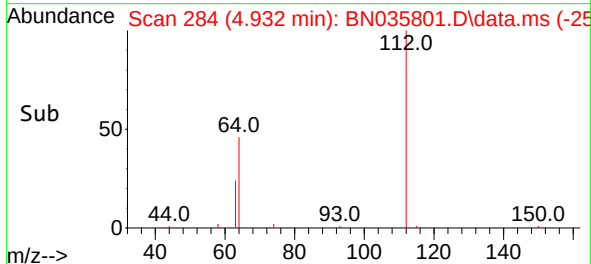
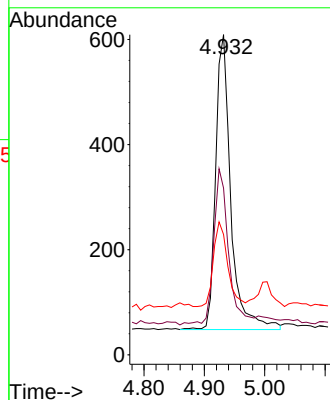
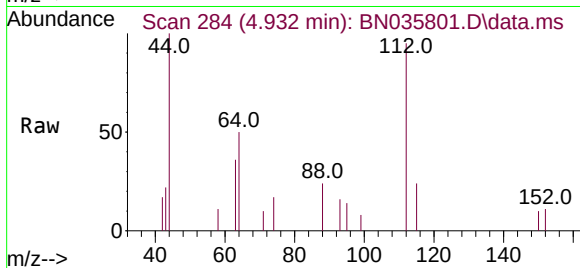




#4
2-Fluorophenol
Concen: 0.123 ng
RT: 4.932 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

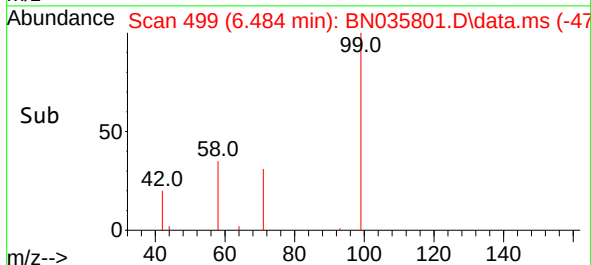
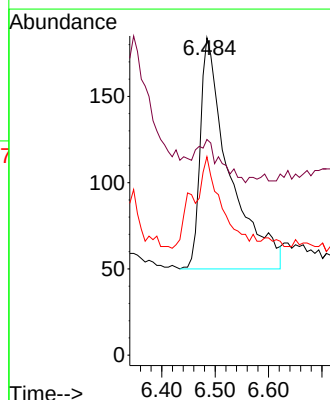
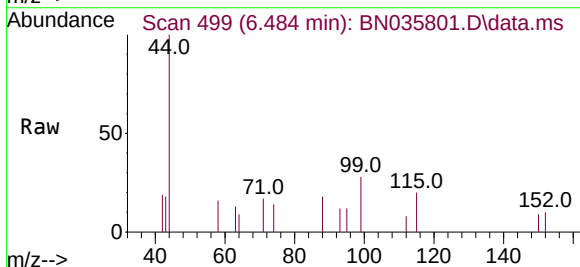
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

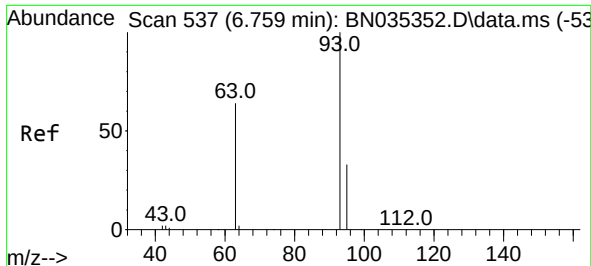
Tgt Ion:	112	Resp:	978
Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	28.3	21.0	31.6



#5
Phenol-d6
Concen: 0.053 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:	99	Resp:	505
Ion	Ratio	Lower	Upper
99	100		
42	18.0	11.4	17.2#
71	39.4	29.3	43.9

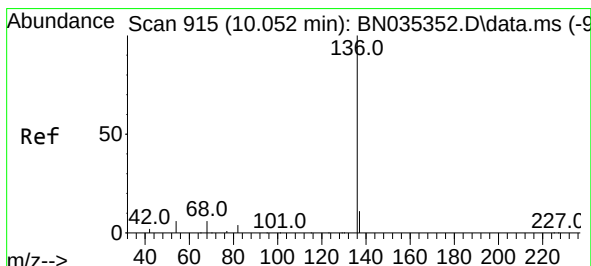
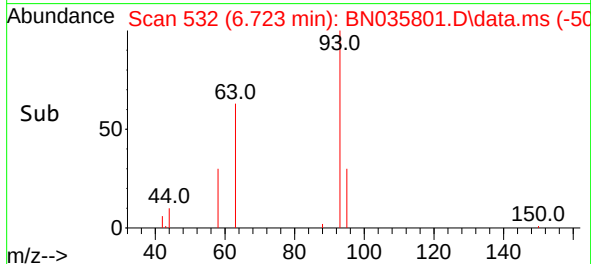
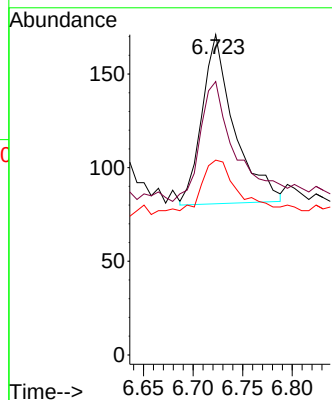
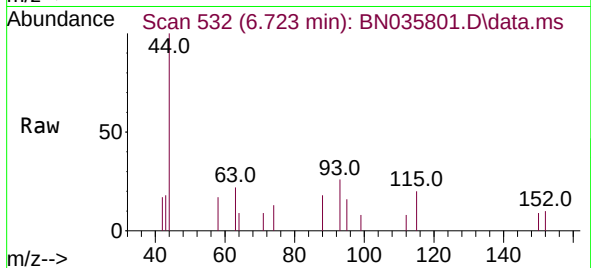




#6
bis(2-Chloroethyl)ether
Concen: 0.025 ng
RT: 6.723 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

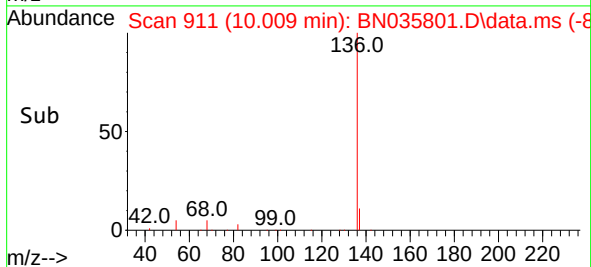
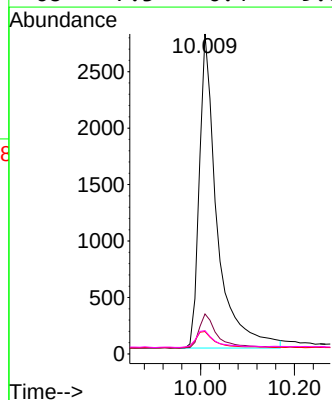
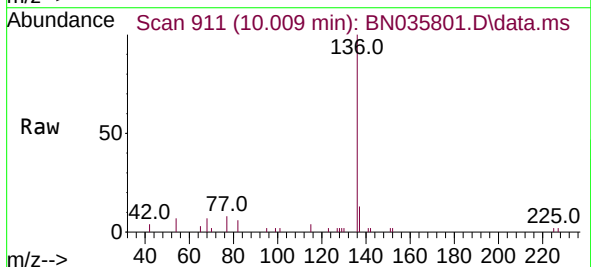
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

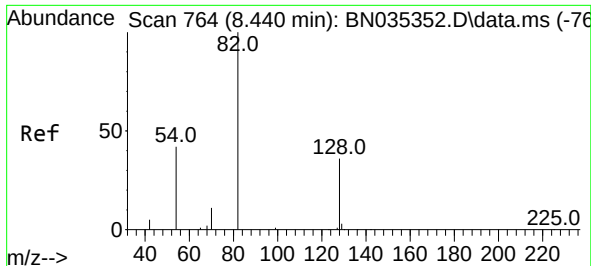
Tgt Ion: 93 Resp: 204
Ion Ratio Lower Upper
93 100
63 83.8 50.4 75.6#
95 47.1 25.7 38.5#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:136 Resp: 7310
Ion Ratio Lower Upper
136 100
137 12.5 10.2 15.2
54 7.0 6.1 9.1
68 7.3 6.4 9.6

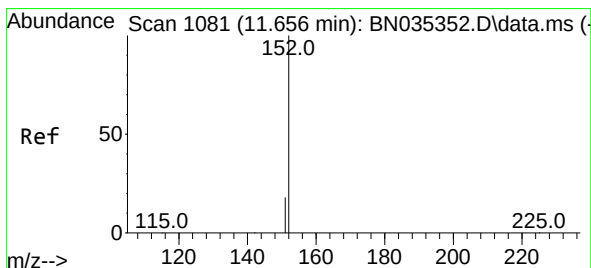
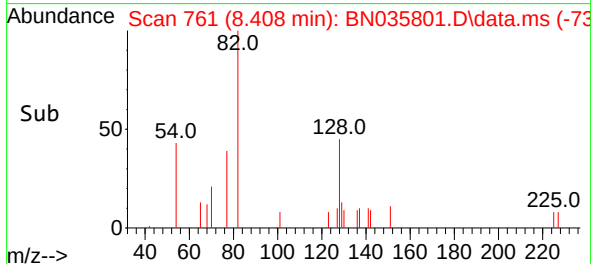
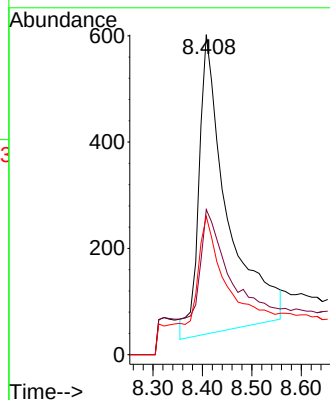
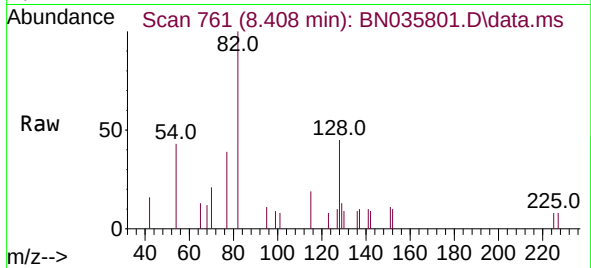




#8
Nitrobenzene-d5
Concen: 0.501 ng
RT: 8.408 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

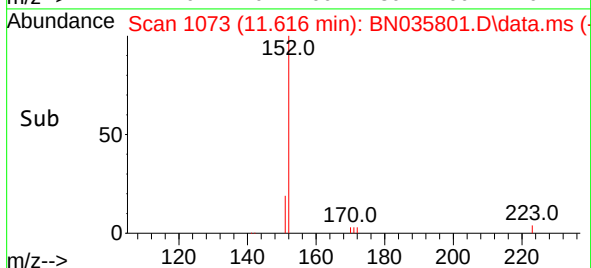
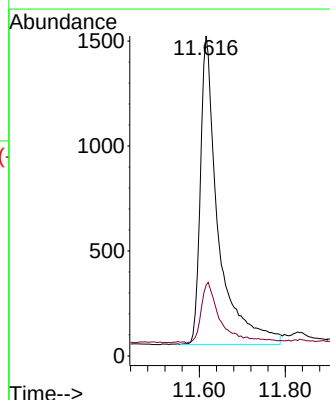
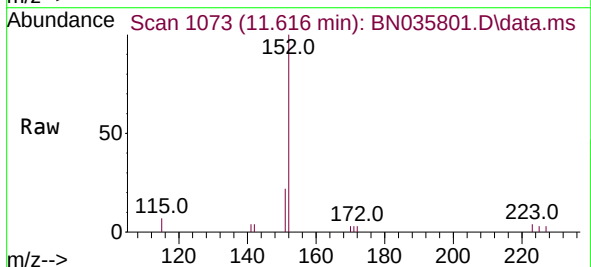
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

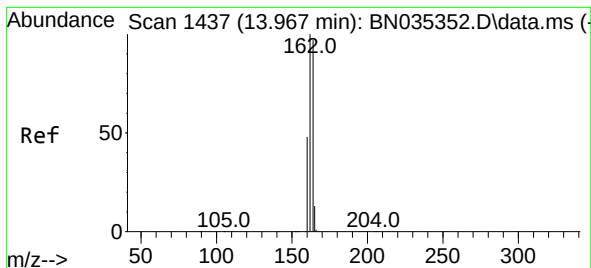
Tgt Ion: 82 Resp: 2236
Ion Ratio Lower Upper
82 100
128 45.3 33.4 50.0
54 43.2 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion: 152 Resp: 4222
Ion Ratio Lower Upper
152 100
151 21.7 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: BN035801.D

Acq: 24 Dec 2024 02:25

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241212

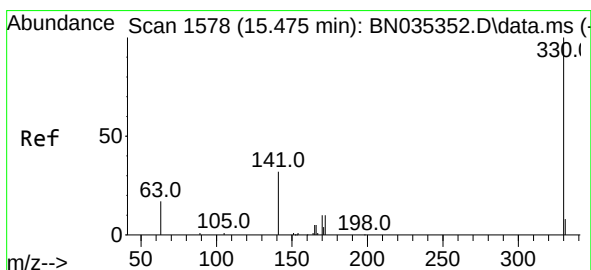
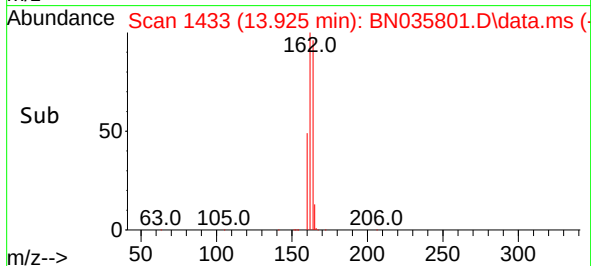
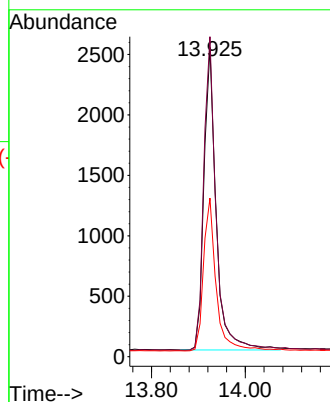
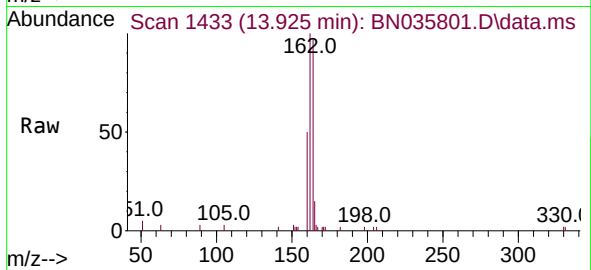
Tgt Ion:164 Resp: 4565

Ion Ratio Lower Upper

164 100

162 103.4 82.2 123.2

160 51.3 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.185 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035801.D

Acq: 24 Dec 2024 02:25

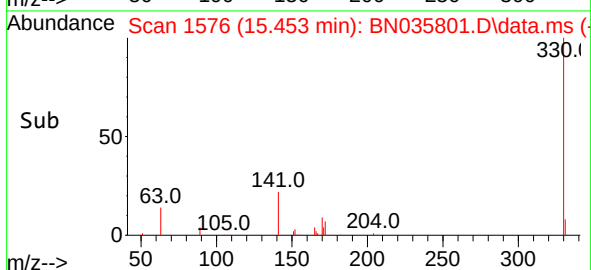
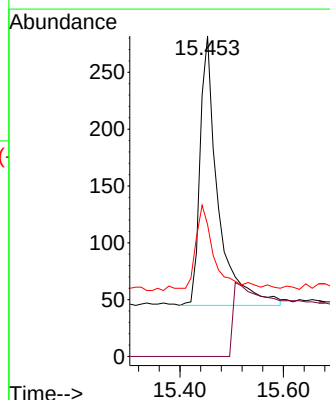
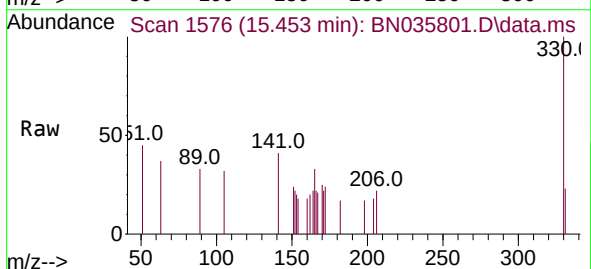
Tgt Ion:330 Resp: 599

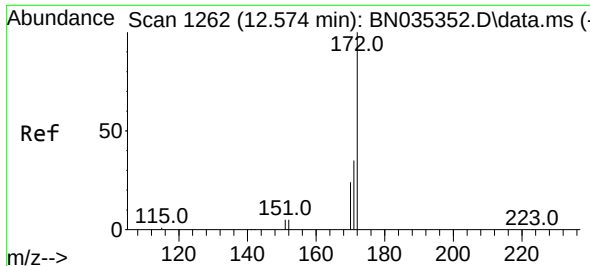
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.7 26.6 40.0

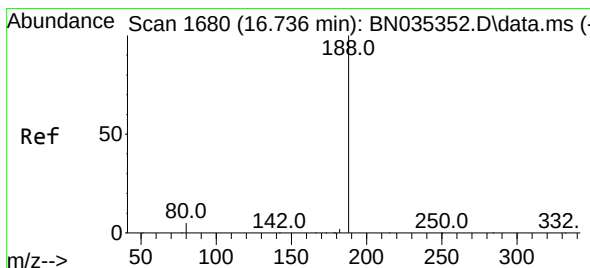
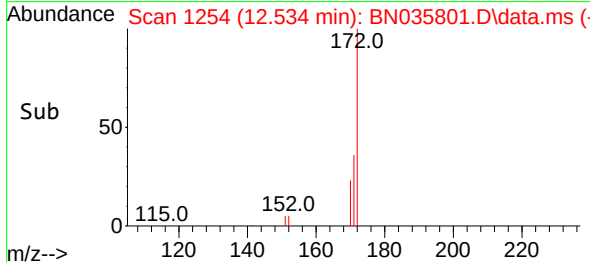
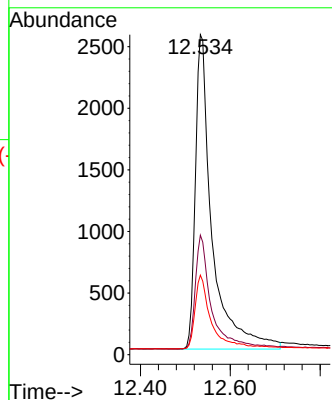
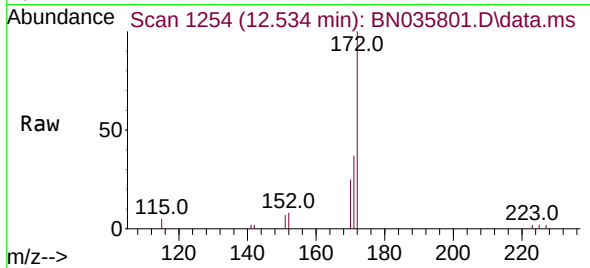




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

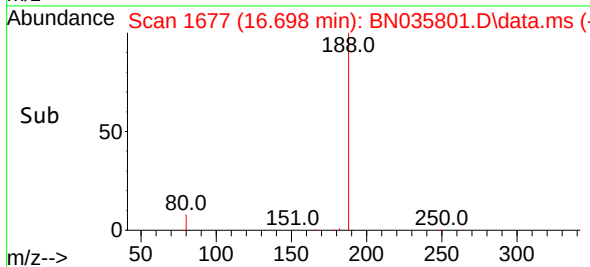
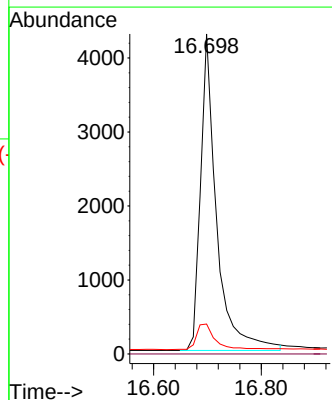
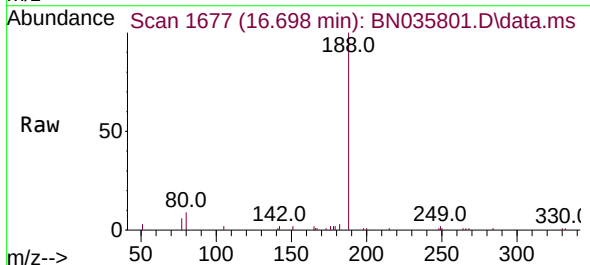
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

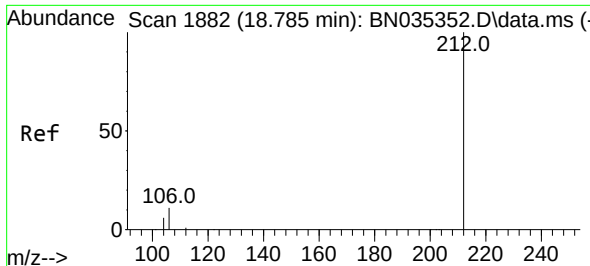
Tgt Ion:172 Resp: 6574
Ion Ratio Lower Upper
172 100
171 37.4 29.0 43.4
170 24.8 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:188 Resp: 8849
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.3 4.6 6.8

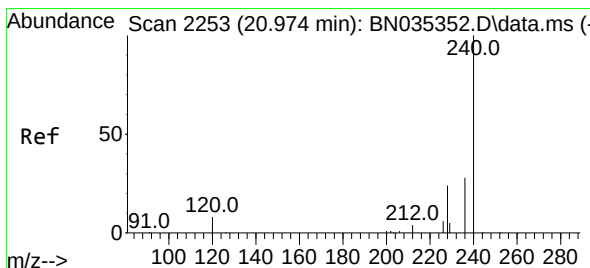
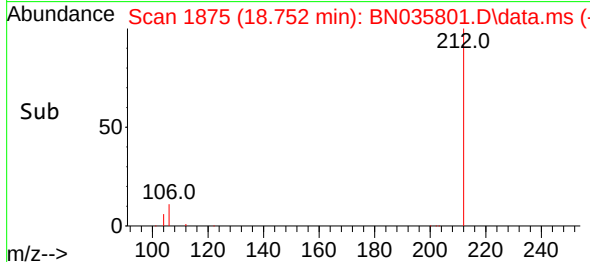
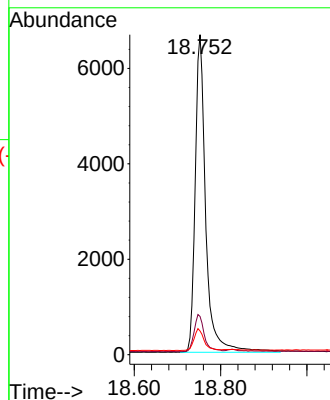
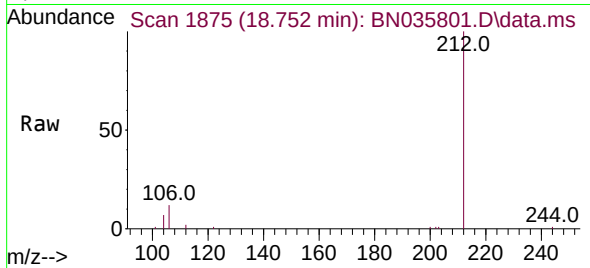




#27
Fluoranthene-d10
Concen: 0.450 ng
RT: 18.752 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

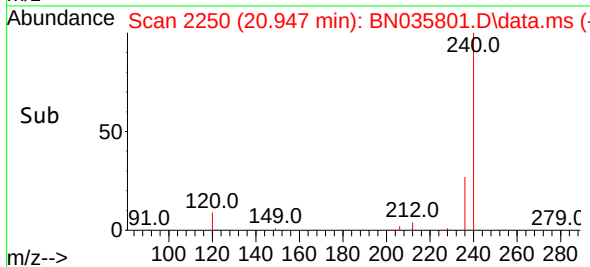
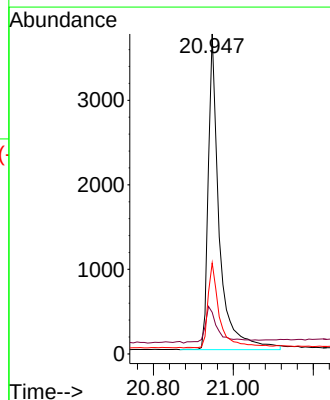
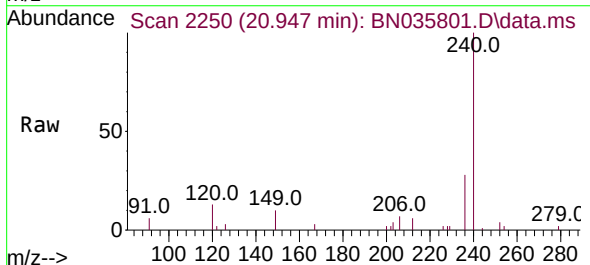
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

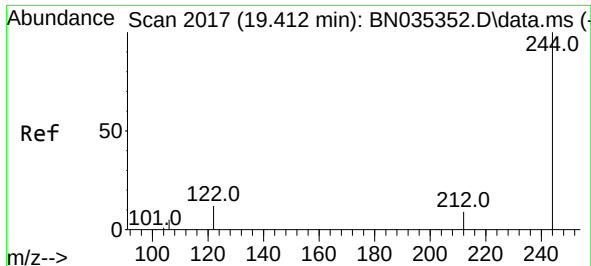
Tgt Ion:212 Resp: 11295
Ion Ratio Lower Upper
212 100
106 11.2 9.2 13.8
104 6.5 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:240 Resp: 7146
Ion Ratio Lower Upper
240 100
120 13.0 7.9 11.9#
236 28.5 22.9 34.3

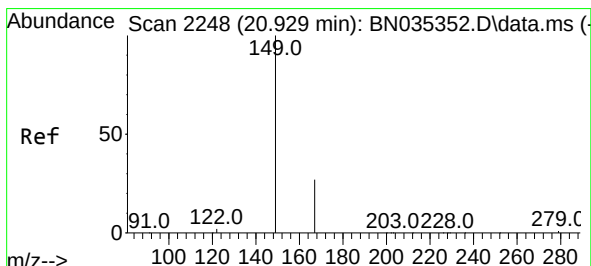
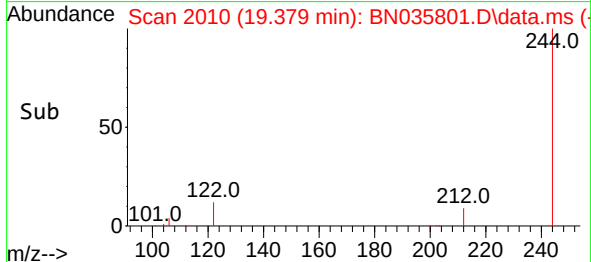
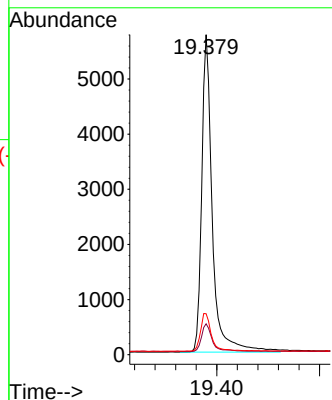
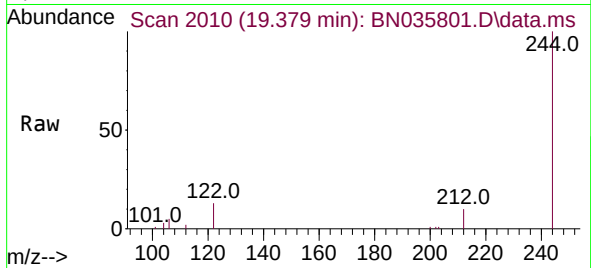




#31
Terphenyl-d14
Concen: 0.587 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

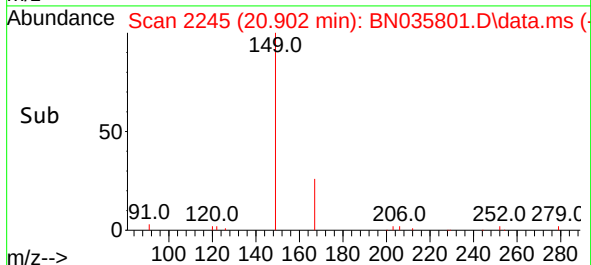
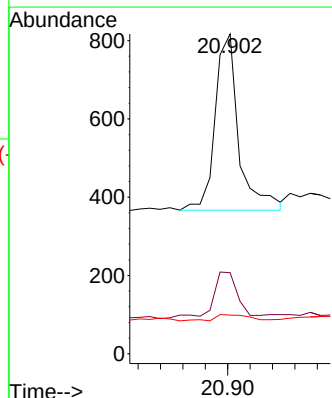
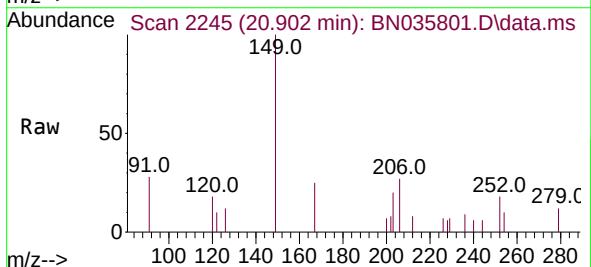
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212

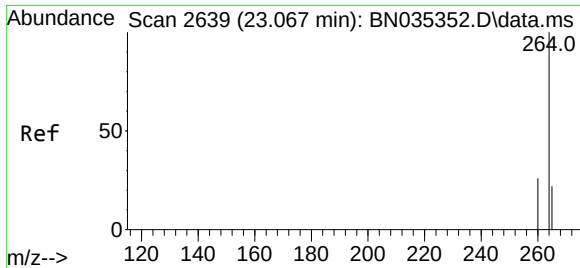
Tgt Ion:244 Resp: 8274
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 12.8 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035801.D
Acq: 24 Dec 2024 02:25

Tgt Ion:149 Resp: 657
Ion Ratio Lower Upper
149 100
167 26.5 22.2 33.4
279 4.0 2.7 4.1

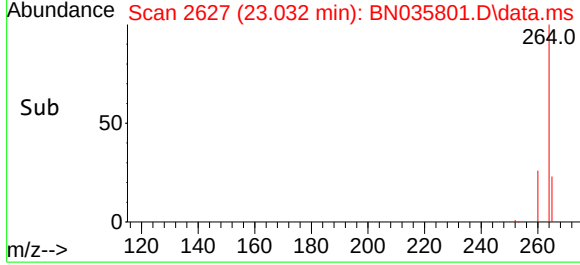
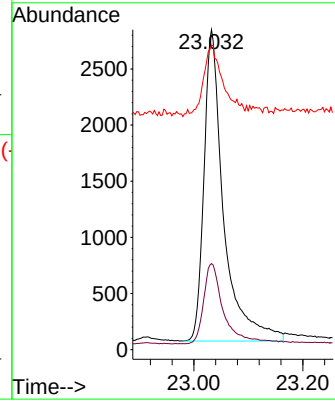
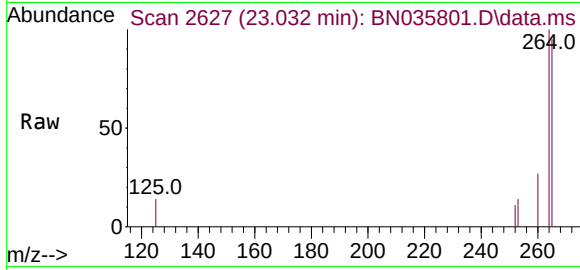




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.032 min Scan# 20
 Delta R.T. -0.009 min
 Lab File: BN035801.D
 Acq: 24 Dec 2024 02:25

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212

Tgt Ion:	264	Resp:	6969
Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	95.1	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035802.D
 Acq On : 24 Dec 2024 03:00
 Operator : RC/JU
 Sample : P5282-02
 Misc :
 ALS Vial : 84 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241212

Quant Time: Dec 24 03:32:48 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)

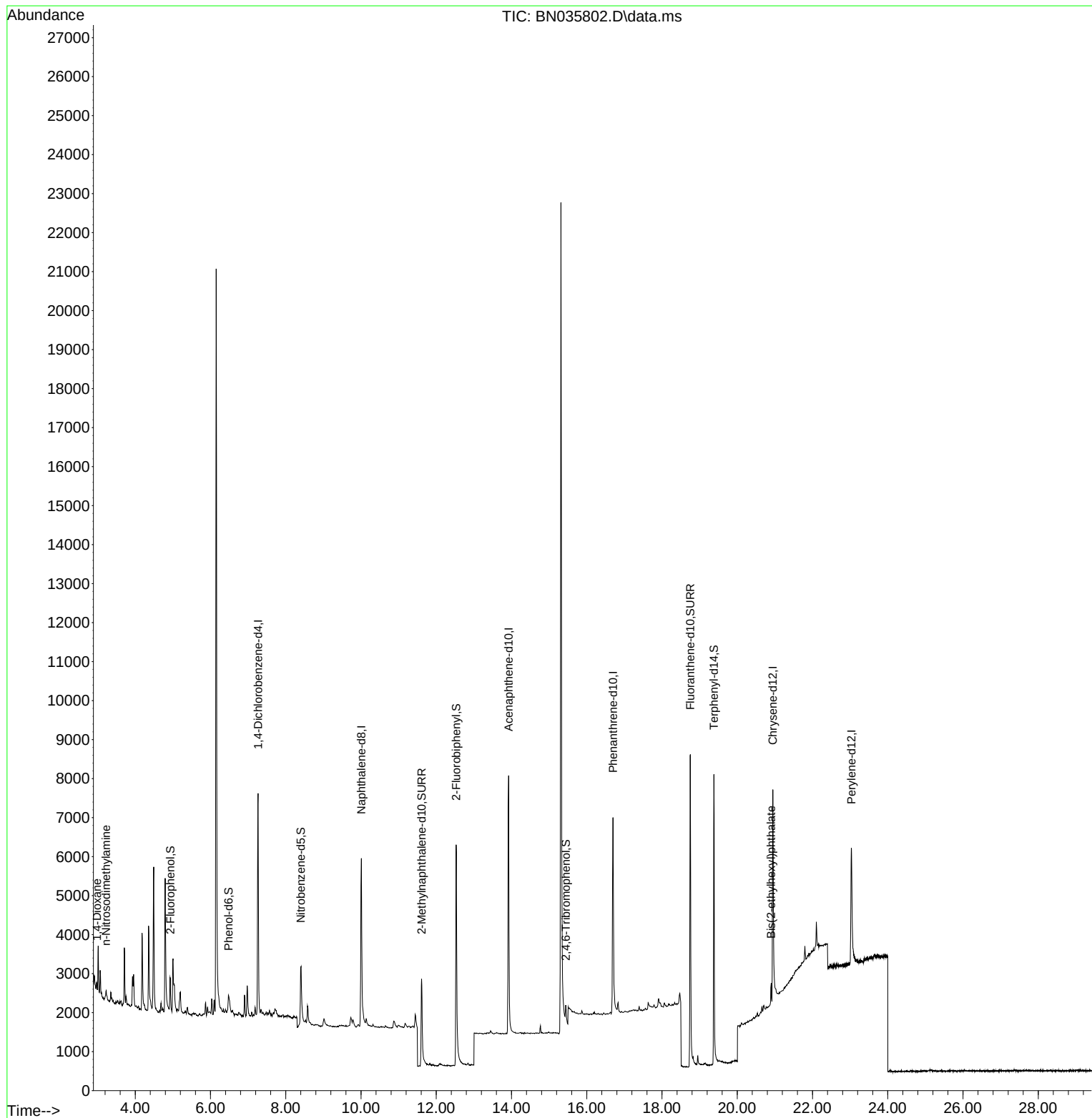
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.265	152	3105	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7312	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	4411	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8736	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7014	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	4957	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	781	0.101	ng	0.00
5) Phenol-d6	6.477	99	588	0.063	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2468	0.553	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4299	0.376	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	516	0.165	ng	-0.01
15) 2-Fluorobiphenyl	12.529	172	6969	0.418	ng	-0.02
27) Fluoranthene-d10	18.752	212	11233	0.454	ng	0.00
31) Terphenyl-d14	19.379	244	8165	0.590	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	115	0.039	ng	# 1
3) n-Nitrosodimethylamine	3.227	42	146	0.059	ng	# 1
34) Bis(2-ethylhexyl)phtha...	20.902	149	585	0.060	ng	93

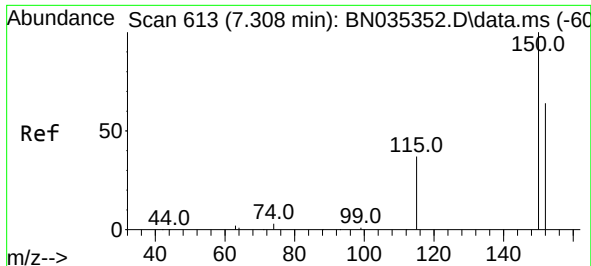
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035802.D
Acq On : 24 Dec 2024 03:00
Operator : RC/JU
Sample : P5282-02
Misc :
ALS Vial : 84 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

Quant Time: Dec 24 03:32:48 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

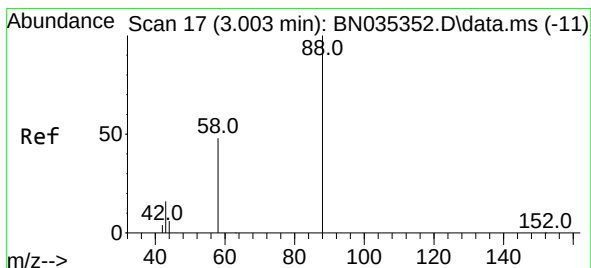
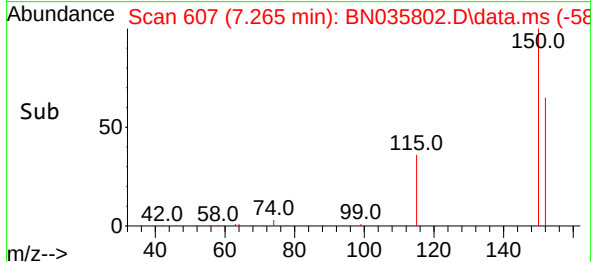
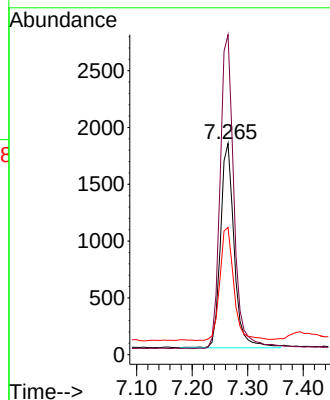
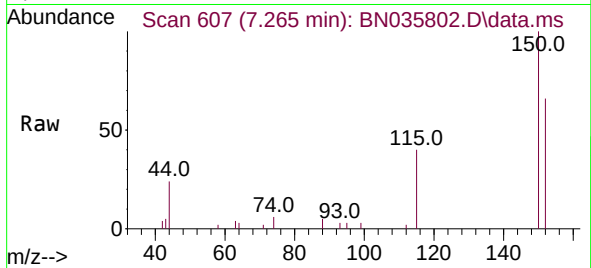




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

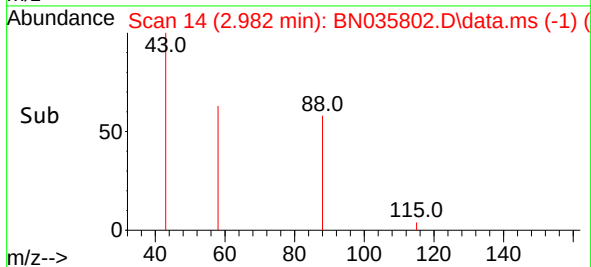
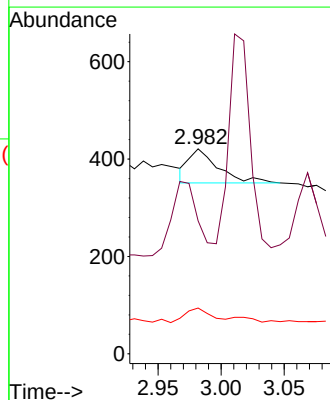
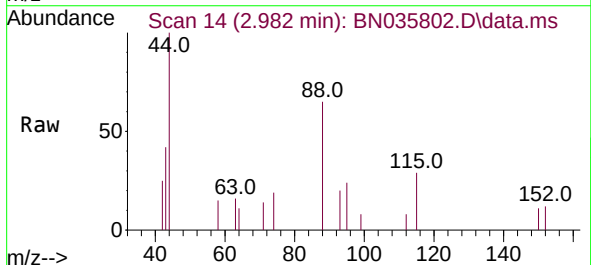
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

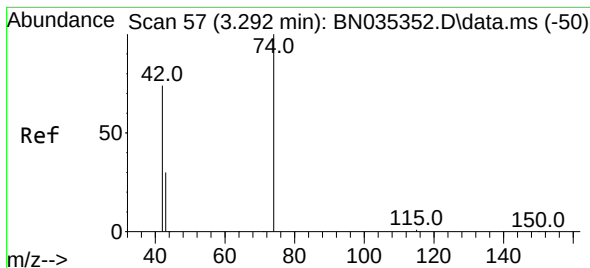
Tgt Ion:152 Resp: 3105
Ion Ratio Lower Upper
152 100
150 151.5 124.0 186.0
115 60.2 49.6 74.4



#2
1,4-Dioxane
Concen: 0.039 ng
RT: 2.982 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion: 88 Resp: 115
Ion Ratio Lower Upper
88 100
43 194.8 17.2 25.8#
58 36.5 44.5 66.7#





#3

n-Nitrosodimethylamine

Concen: 0.059 ng

RT: 3.227 min Scan# 41

Delta R.T. -0.051 min

Lab File: BN035802.D

Acq: 24 Dec 2024 03:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241212

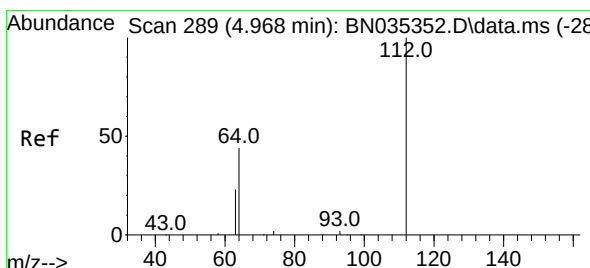
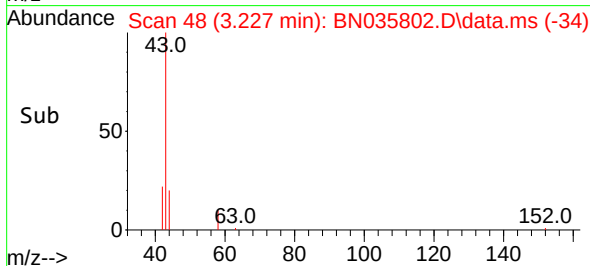
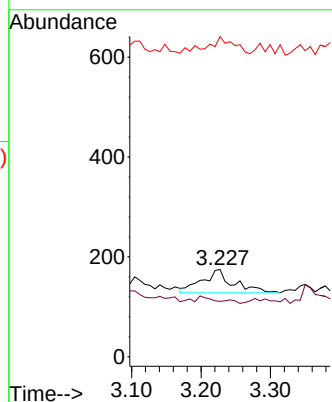
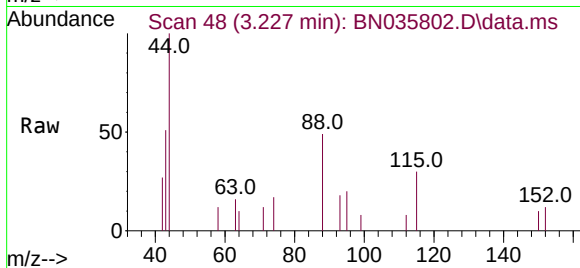
Tgt Ion: 42 Resp: 146

Ion Ratio Lower Upper

42 100

74 4.8 124.9 187.3#

44 59.6 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.101 ng

RT: 4.932 min Scan# 284

Delta R.T. -0.007 min

Lab File: BN035802.D

Acq: 24 Dec 2024 03:00

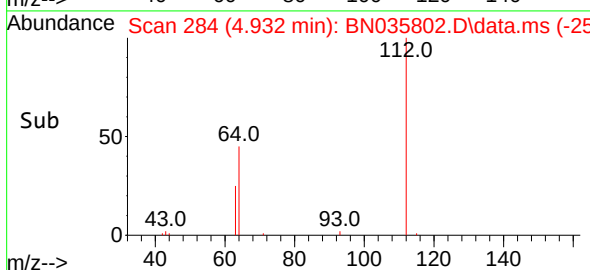
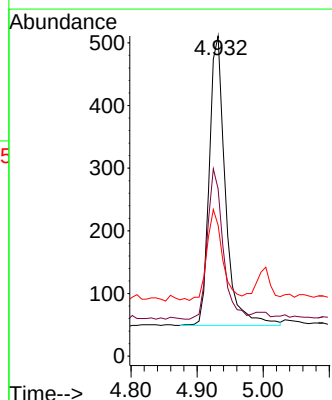
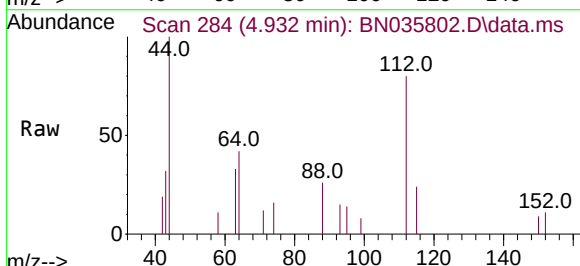
Tgt Ion: 112 Resp: 781

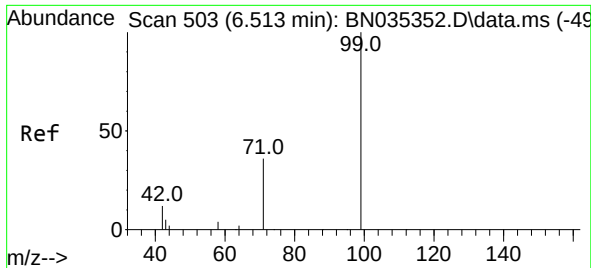
Ion Ratio Lower Upper

112 100

64 49.9 39.8 59.8

63 30.0 21.0 31.6

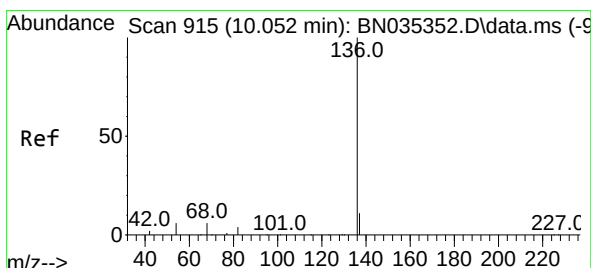
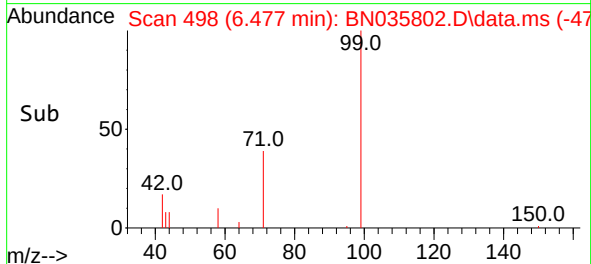
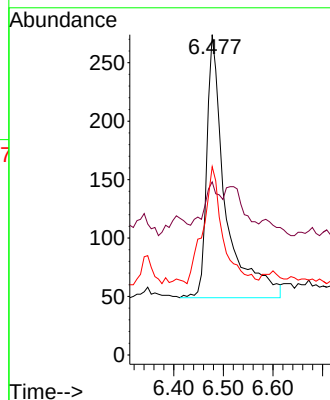
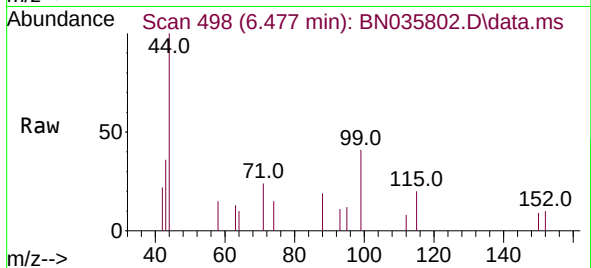




#5
Phenol-d6
Concen: 0.063 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

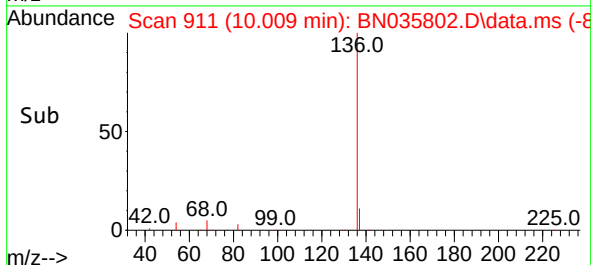
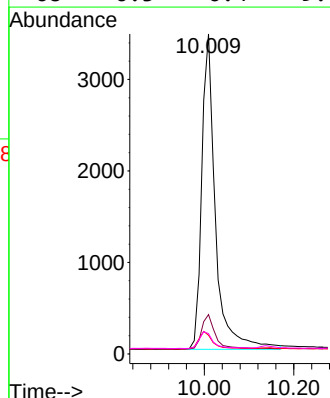
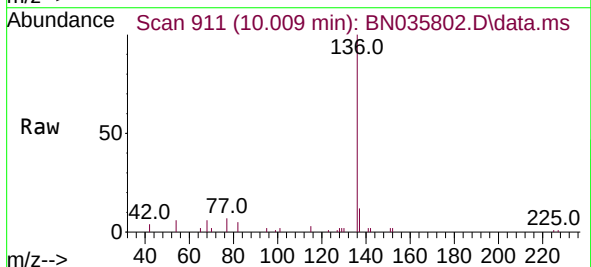
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

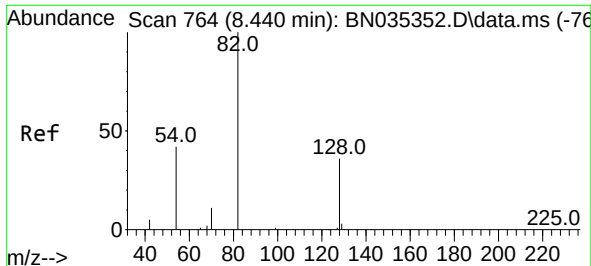
Tgt Ion: 99 Resp: 588
Ion Ratio Lower Upper
99 100
42 19.0 11.4 17.2#
71 47.4 29.3 43.9#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion: 136 Resp: 7312
Ion Ratio Lower Upper
136 100
137 12.3 10.2 15.2
54 5.9 6.1 9.1#
68 6.3 6.4 9.6#

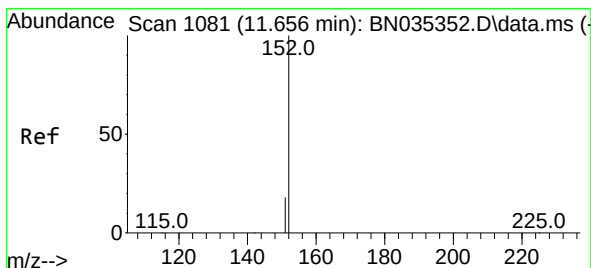
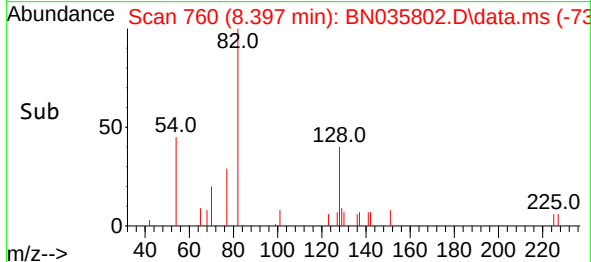
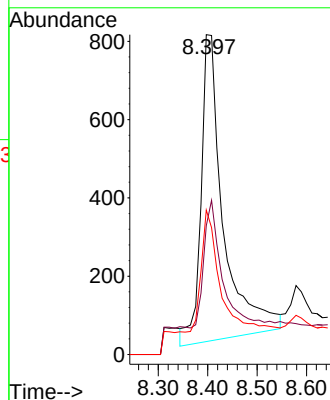
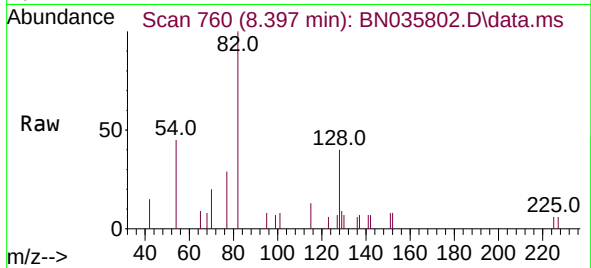




#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

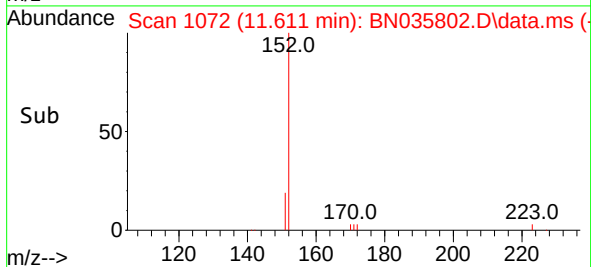
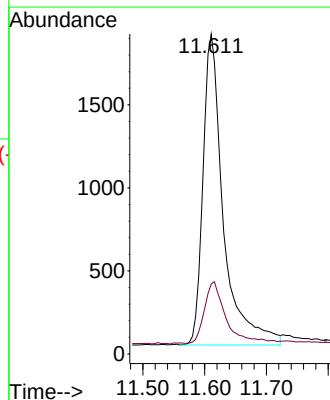
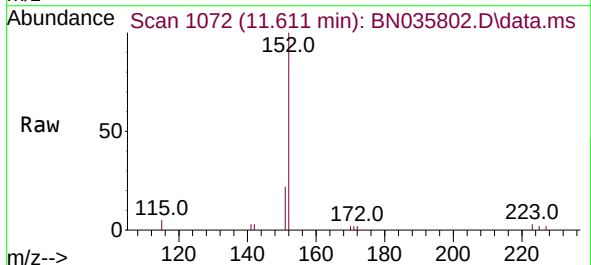
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

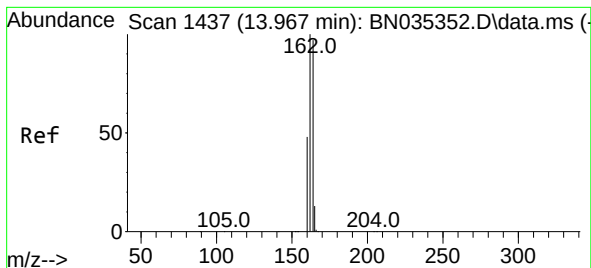
Tgt Ion: 82 Resp: 2468
Ion Ratio Lower Upper
82 100
128 40.3 33.4 50.0
54 45.2 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion: 152 Resp: 4299
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.925 min Scan# 1437

Delta R.T. -0.011 min

Lab File: BN035802.D

Acq: 24 Dec 2024 03:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241212

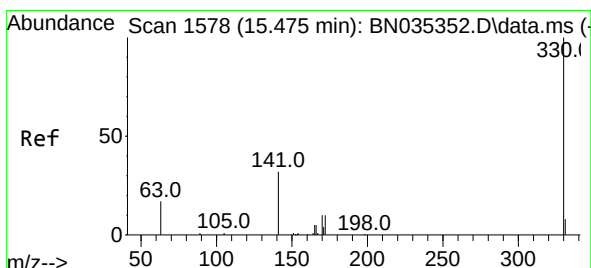
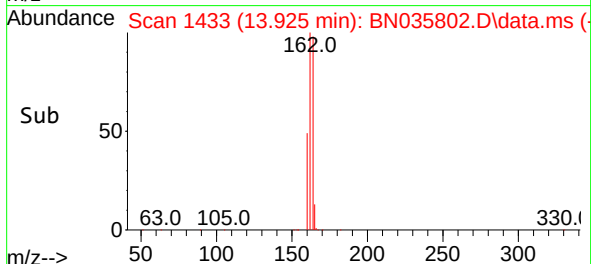
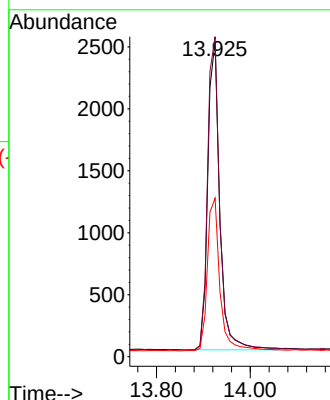
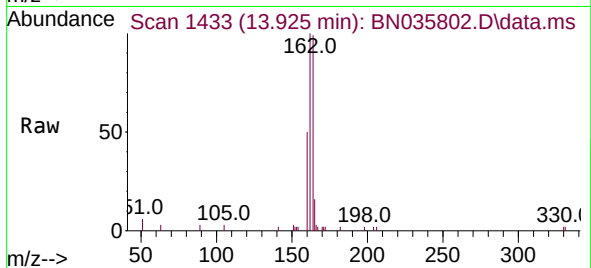
Tgt Ion:164 Resp: 4411

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.2

160 50.3 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.165 ng

RT: 15.443 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035802.D

Acq: 24 Dec 2024 03:00

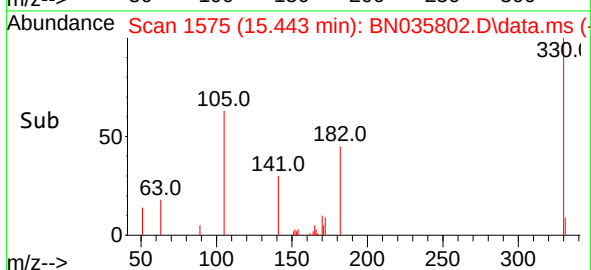
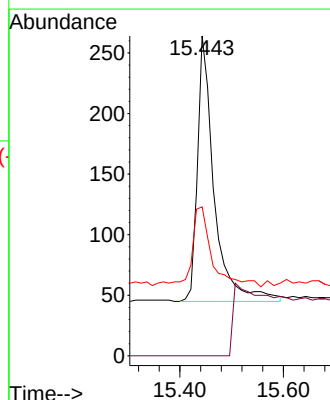
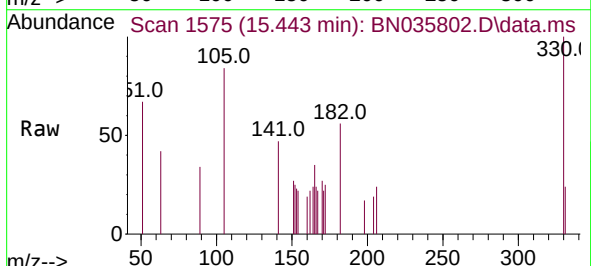
Tgt Ion:330 Resp: 516

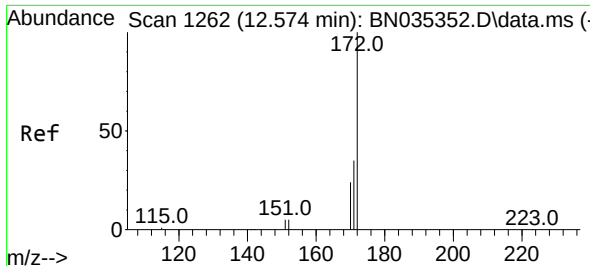
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 35.7 26.6 40.0

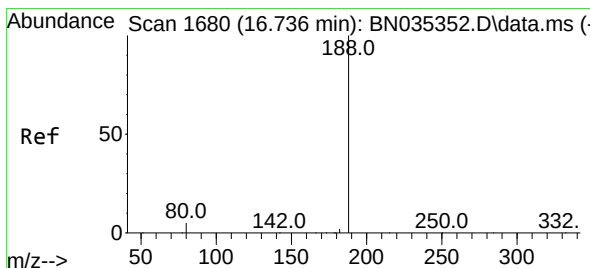
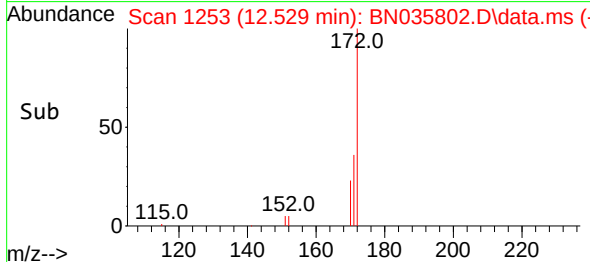
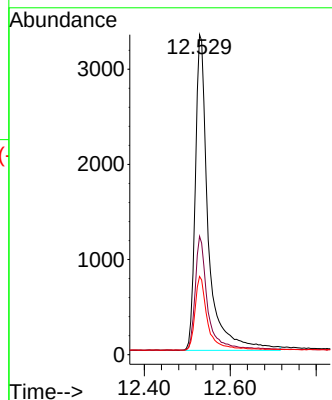
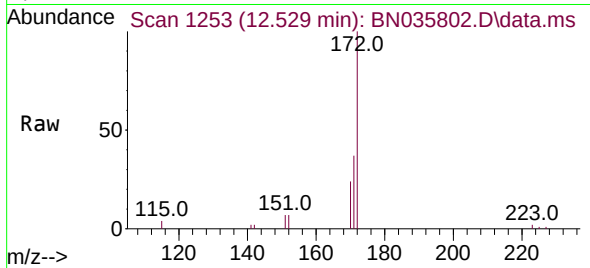




#15
2-Fluorobiphenyl
Concen: 0.418 ng
RT: 12.529 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

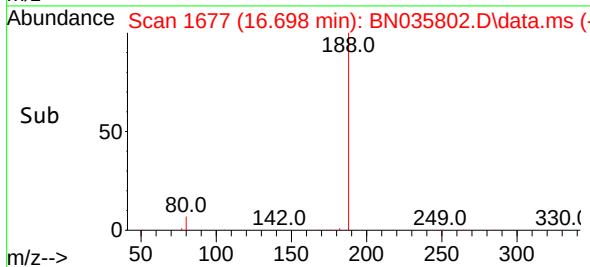
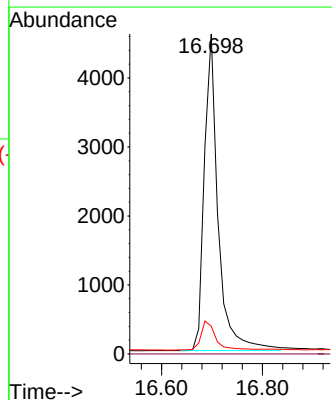
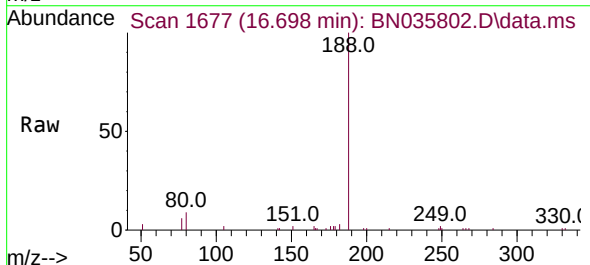
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

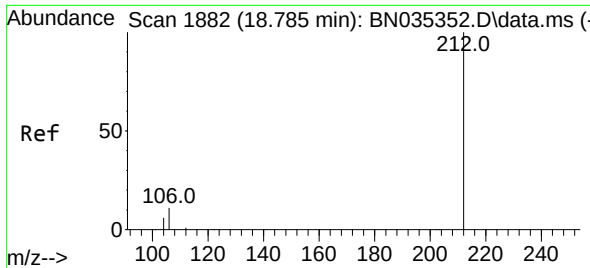
Tgt Ion:172 Resp: 6969
Ion Ratio Lower Upper
172 100
171 37.0 29.0 43.4
170 24.4 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion:188 Resp: 8736
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.6 4.6 6.8#

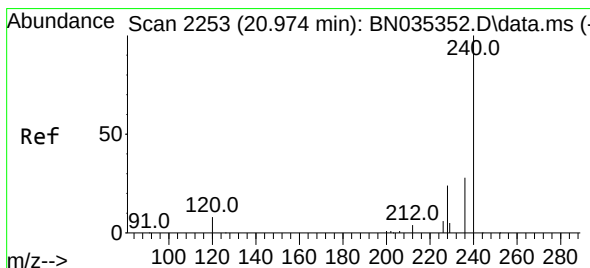
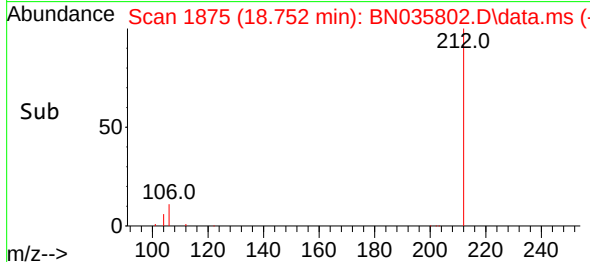
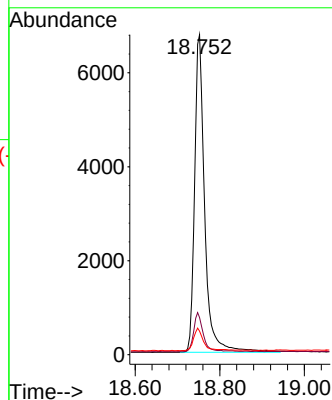
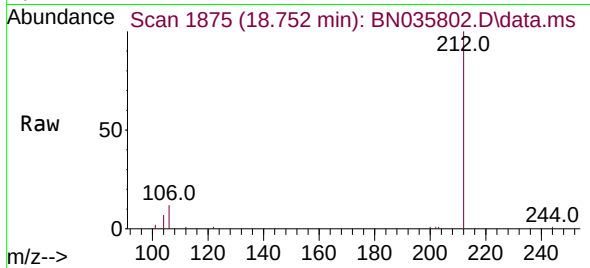




#27
Fluoranthene-d10
Concen: 0.454 ng
RT: 18.752 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

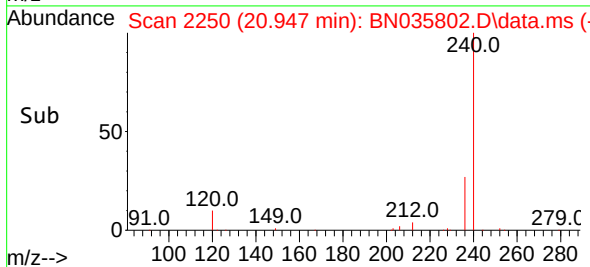
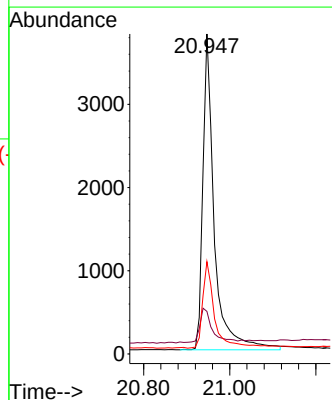
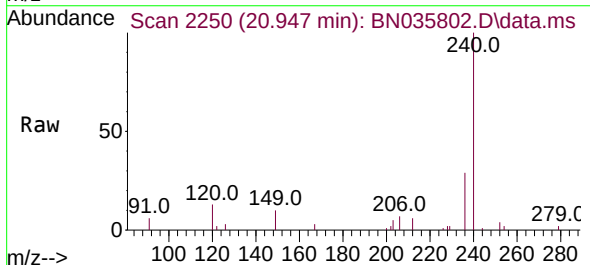
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

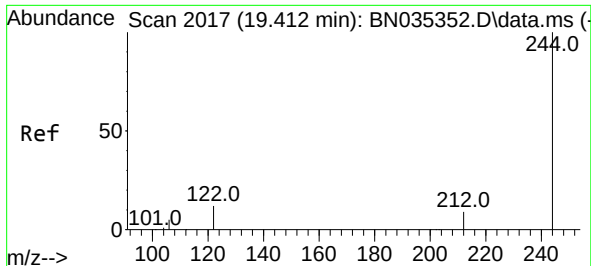
Tgt Ion:212 Resp: 11233
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 7.0 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Tgt Ion:240 Resp: 7014
Ion Ratio Lower Upper
240 100
120 13.3 7.9 11.9#
236 28.8 22.9 34.3

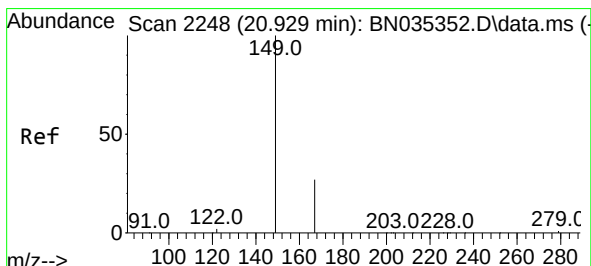
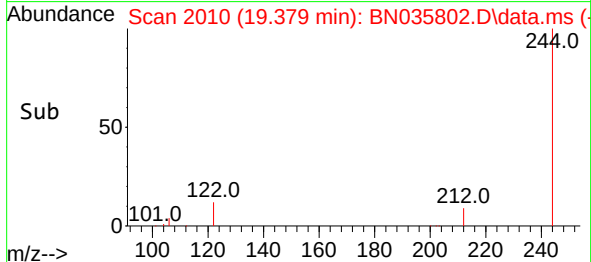
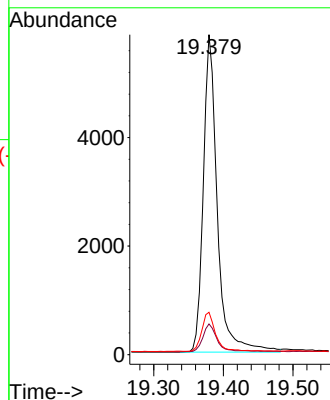
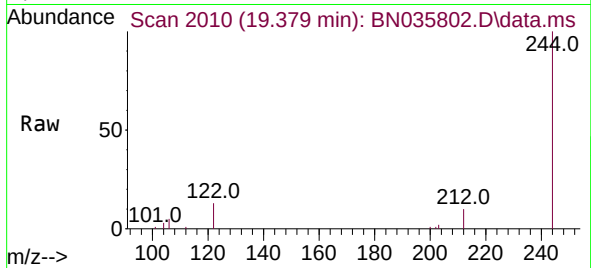




#31
Terphenyl-d14
Concen: 0.590 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

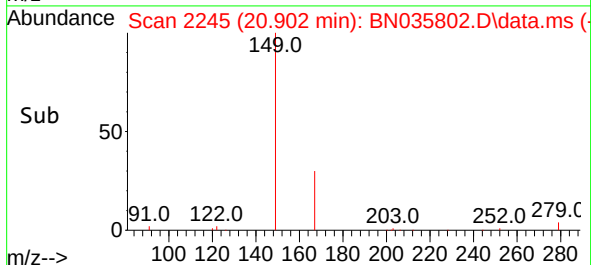
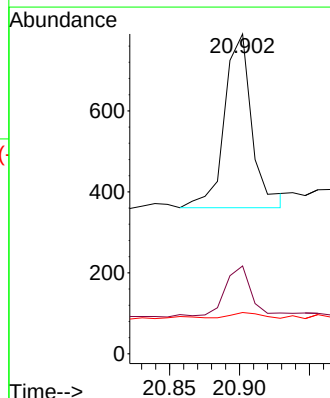
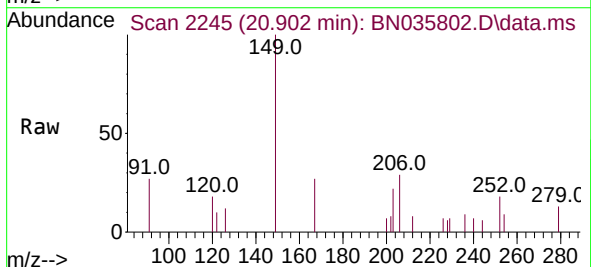
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212

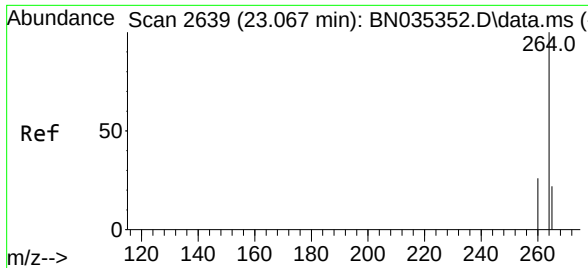
Tgt Ion:244 Resp: 8165
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 13.2 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.060 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

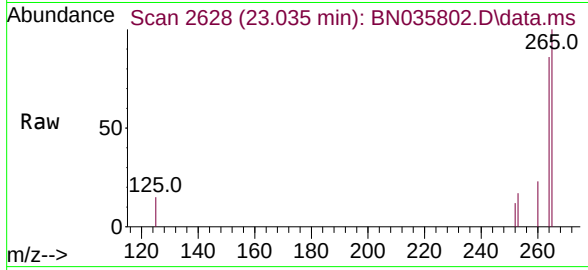
Tgt Ion:149 Resp: 585
Ion Ratio Lower Upper
149 100
167 32.1 22.2 33.4
279 3.2 2.7 4.1





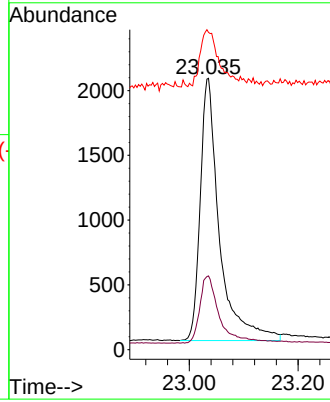
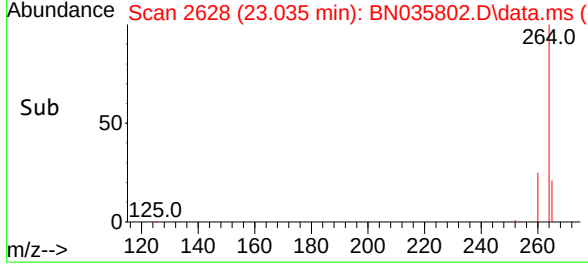
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 20
Delta R.T. -0.006 min
Lab File: BN035802.D
Acq: 24 Dec 2024 03:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241212



Tgt Ion:264 Resp: 4957

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	117.0	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035803.D
 Acq On : 24 Dec 2024 03:36
 Operator : RC/JU
 Sample : P5282-03
 Misc :
 ALS Vial : 85 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20241212

Quant Time: Dec 24 04:50:54 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)

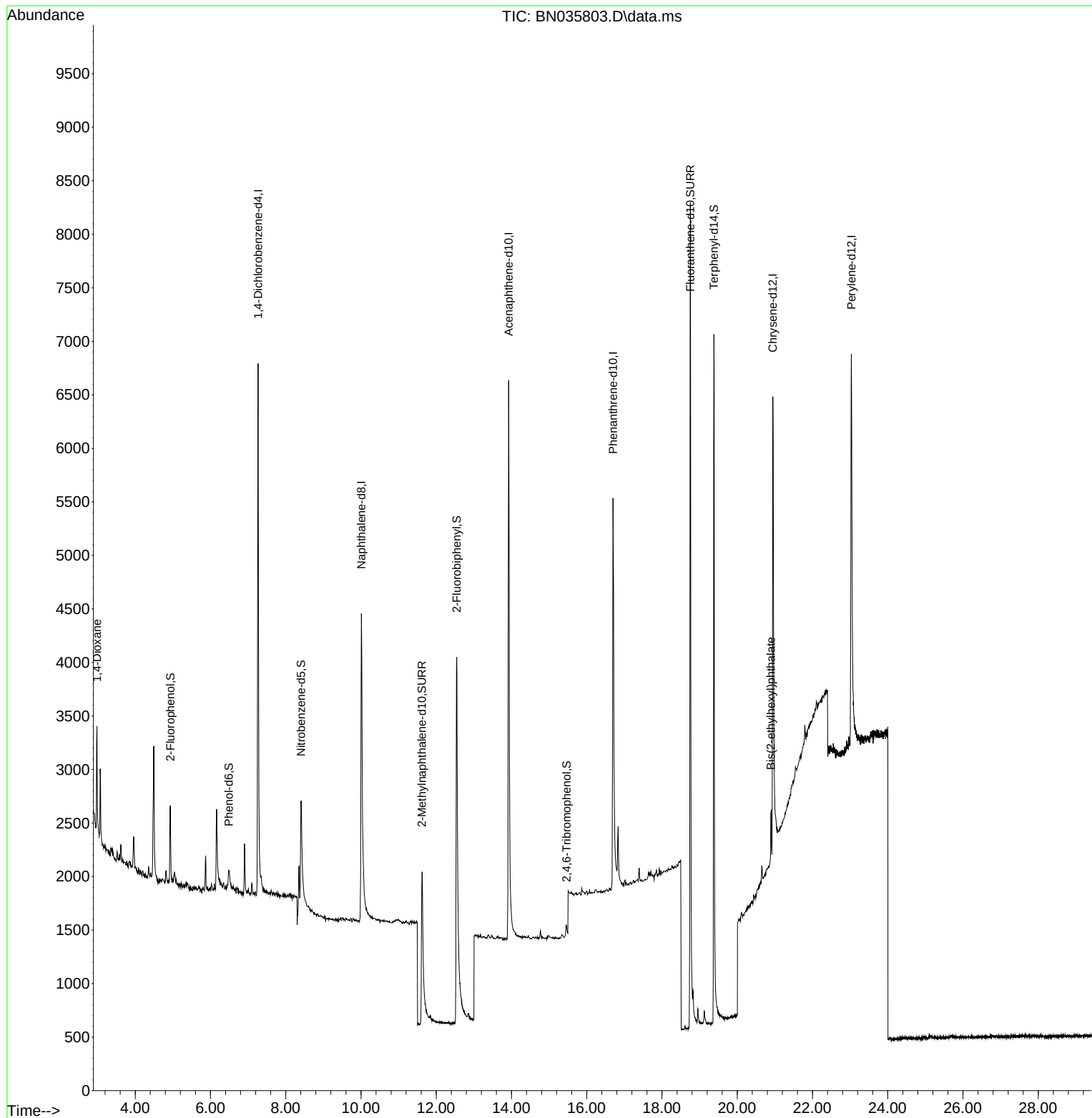
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	2931	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6518	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	3960	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	7717	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6406	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6112	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	690	0.094	ng	0.00
5) Phenol-d6	6.484	99	422	0.048	ng	0.00
8) Nitrobenzene-d5	8.408	82	2118	0.532	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	4202	0.412	ng	0.00
14) 2,4,6-Tribromophenol	15.464	330	183	0.065	ng	0.01
15) 2-Fluorobiphenyl	12.543	172	6568	0.439	ng	0.00
27) Fluoranthene-d10	18.752	212	11193	0.512	ng	0.00
31) Terphenyl-d14	19.379	244	8059	0.638	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.981	88	741	0.264	ng	# 92
34) Bis(2-ethylhexyl)phtha...	20.893	149	590	0.067	ng	93

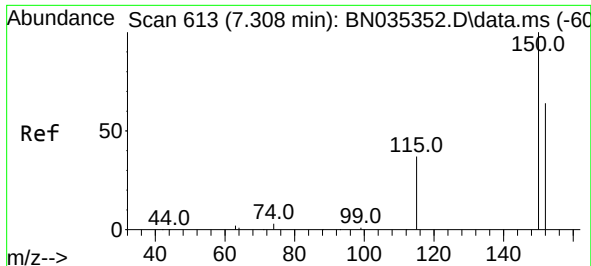
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035803.D
Acq On : 24 Dec 2024 03:36
Operator : RC/JU
Sample : P5282-03
Misc :
ALS Vial : 85 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

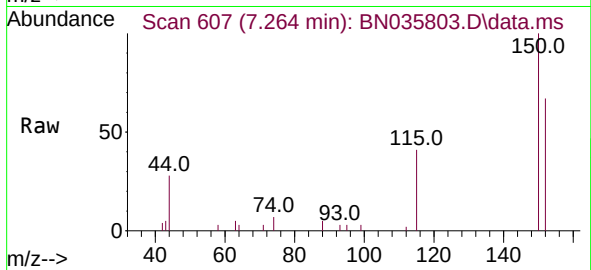
Quant Time: Dec 24 04:50:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





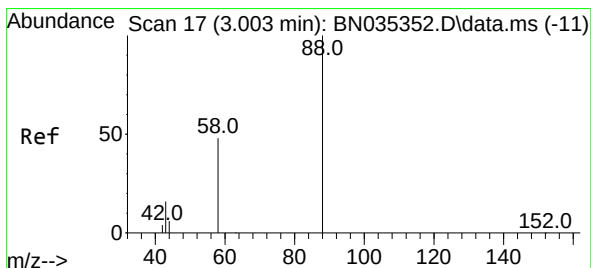
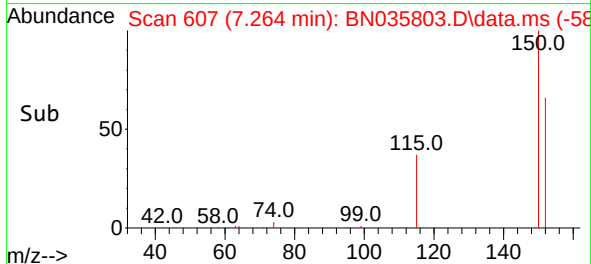
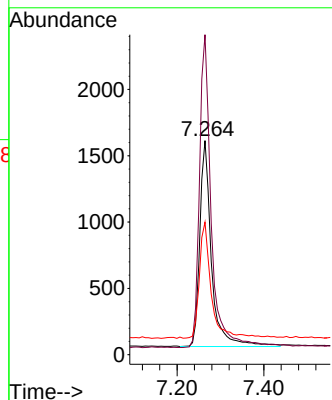
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN035803.D
 Acq: 24 Dec 2024 03:36

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20241212



Tgt Ion:152 Resp: 2931

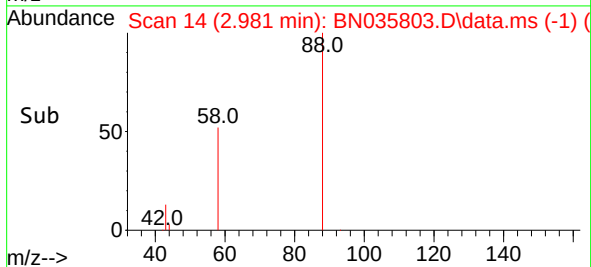
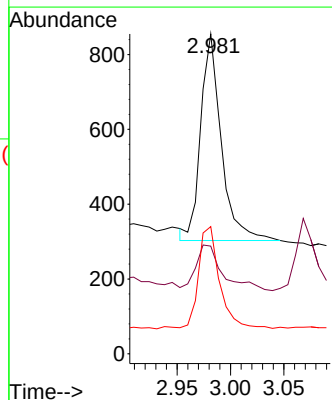
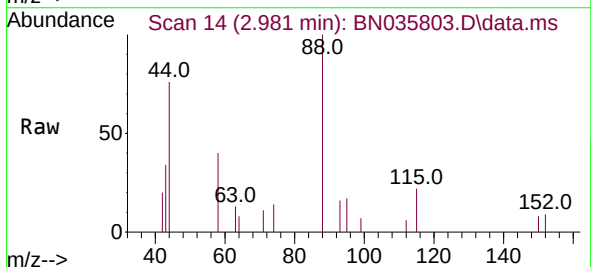
Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.0	186.0
115	61.9	49.6	74.4

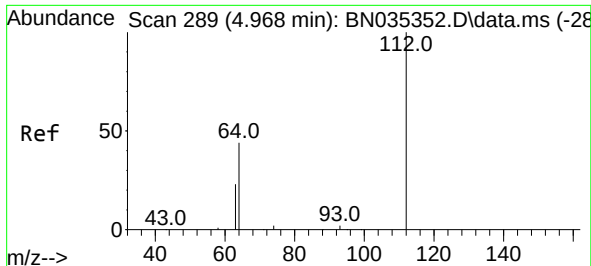


#2
 1,4-Dioxane
 Concen: 0.264 ng
 RT: 2.981 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035803.D
 Acq: 24 Dec 2024 03:36

Tgt Ion: 88 Resp: 741

Ion	Ratio	Lower	Upper
88	100		
43	28.9	17.2	25.8
58	51.6	44.5	66.7

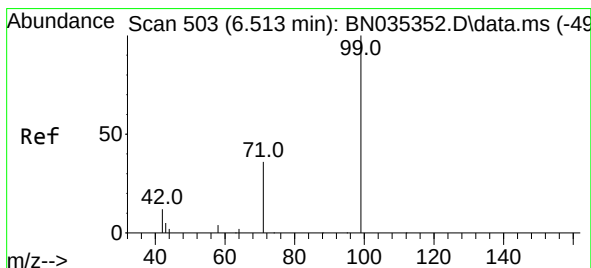
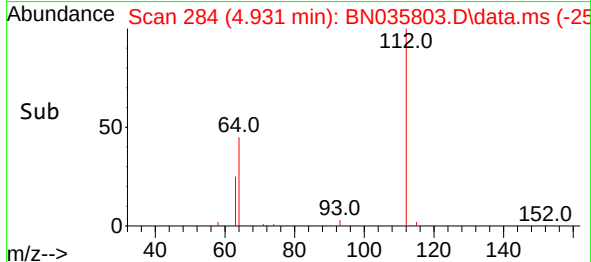
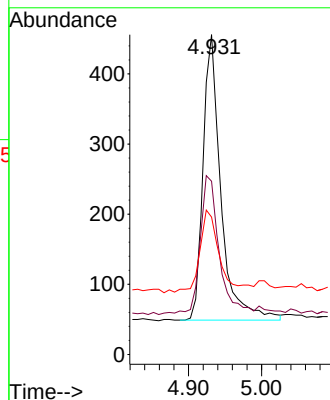
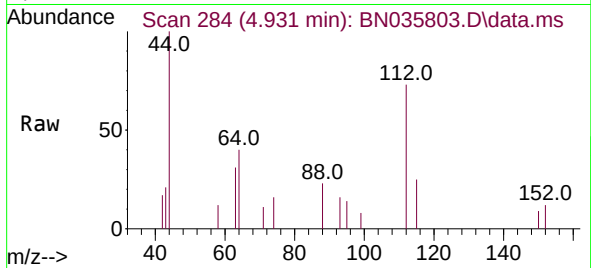




#4
2-Fluorophenol
Concen: 0.094 ng
RT: 4.931 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

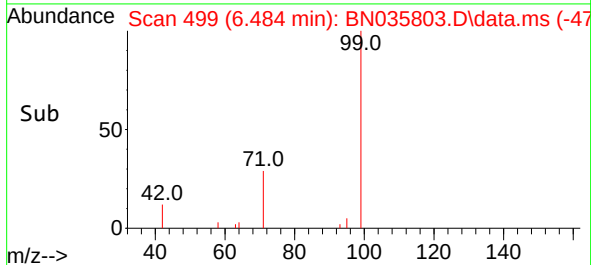
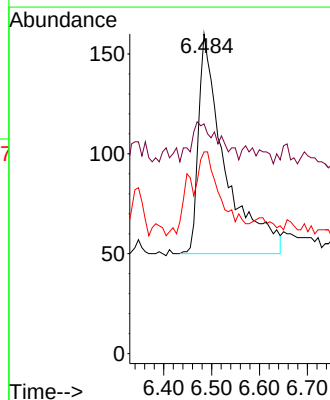
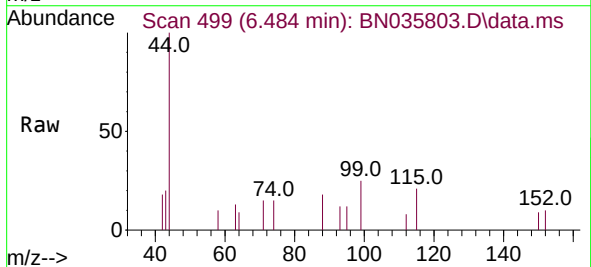
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

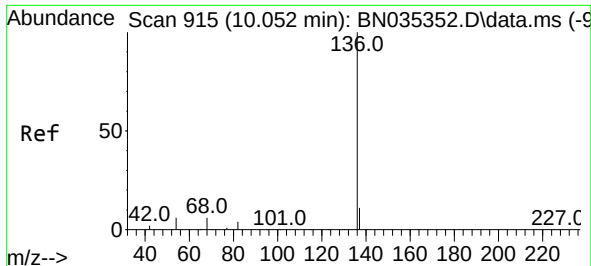
Tgt Ion:112 Resp: 690
Ion Ratio Lower Upper
112 100
64 51.9 39.8 59.8
63 30.1 21.0 31.6



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion: 99 Resp: 422
Ion Ratio Lower Upper
99 100
42 18.7 11.4 17.2#
71 28.9 29.3 43.9#

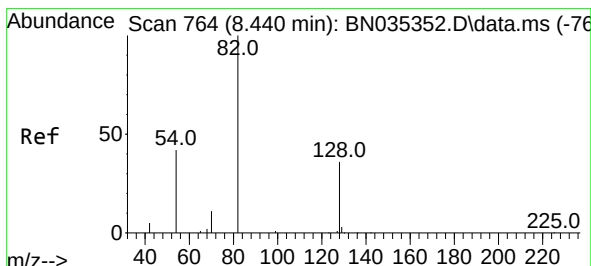
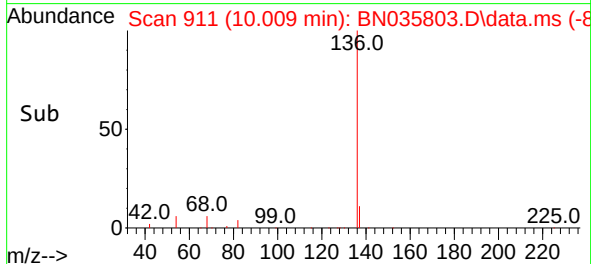
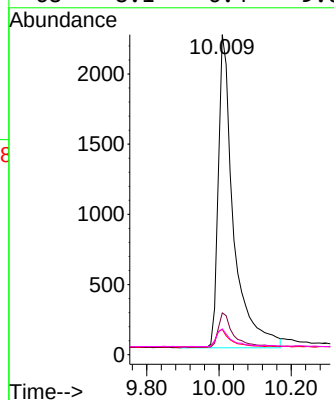
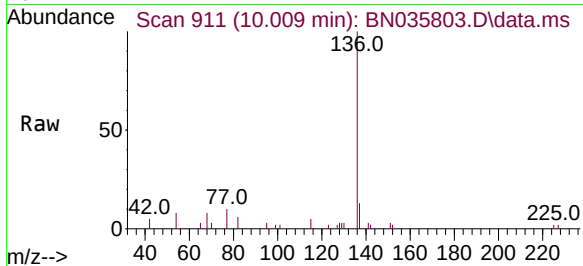




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

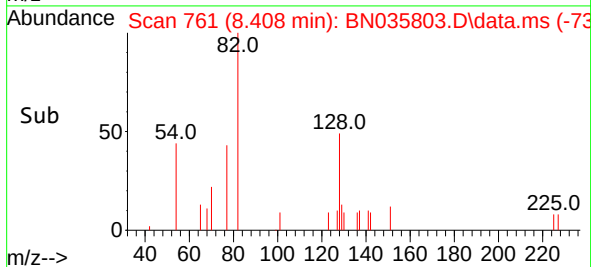
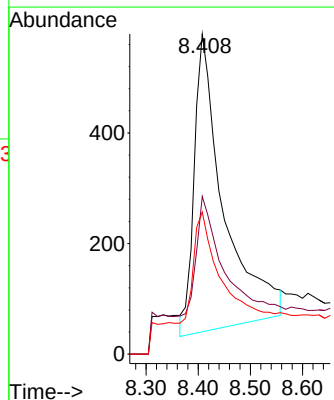
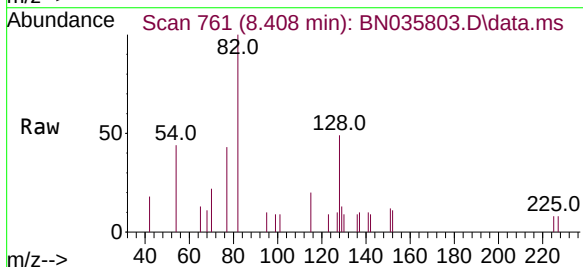
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

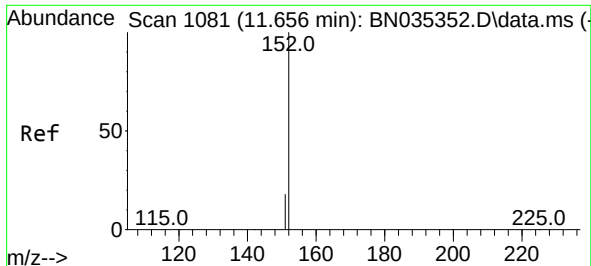
Tgt Ion:	136	Resp:	6518
Ion Ratio	Lower	Upper	
136	100		
137	13.1	10.2	15.2
54	7.9	6.1	9.1
68	8.1	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.532 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion:	82	Resp:	2118
Ion Ratio	Lower	Upper	
82	100		
128	49.2	33.4	50.0
54	44.4	36.7	55.1

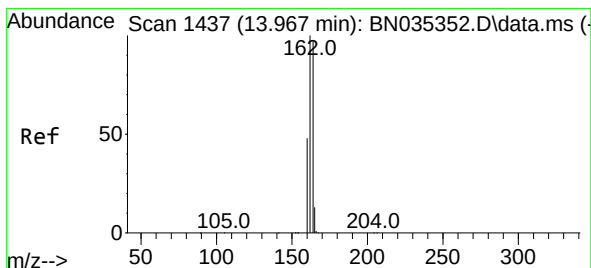
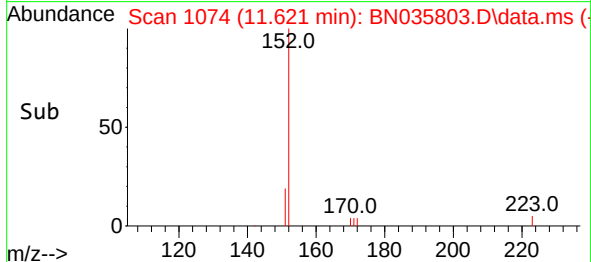
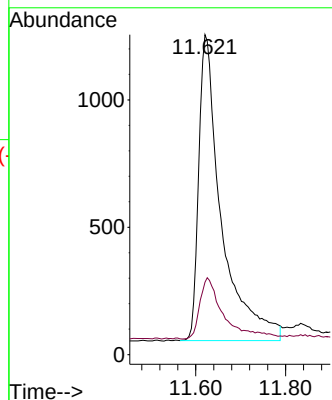
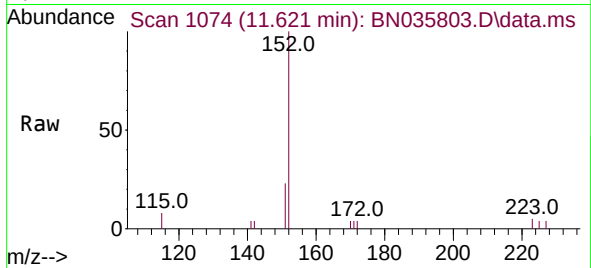




#11
2-Methylnaphthalene-d10
Concen: 0.412 ng
RT: 11.621 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

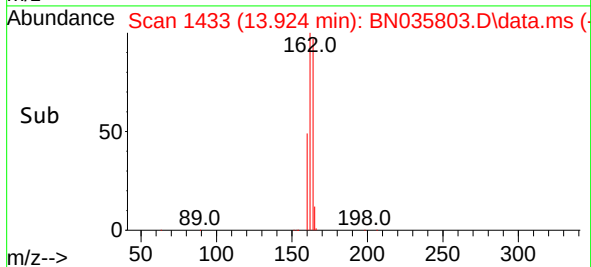
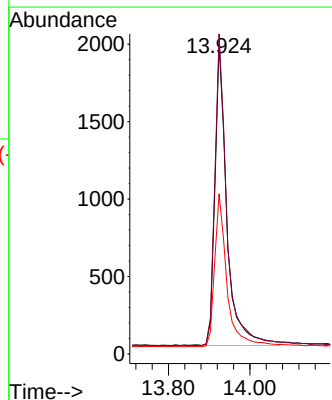
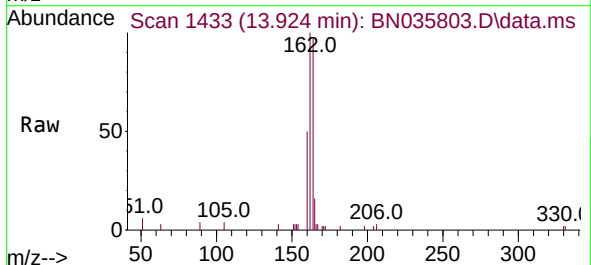
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

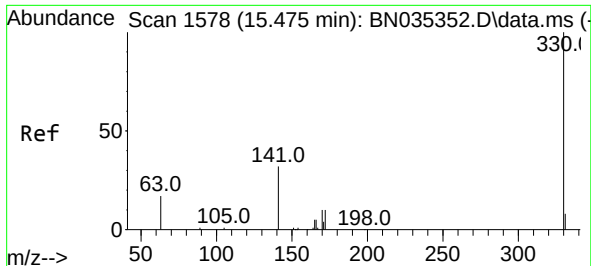
Tgt Ion:152 Resp: 4202
Ion Ratio Lower Upper
152 100
151 21.3 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion:164 Resp: 3960
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 51.6 40.1 60.1

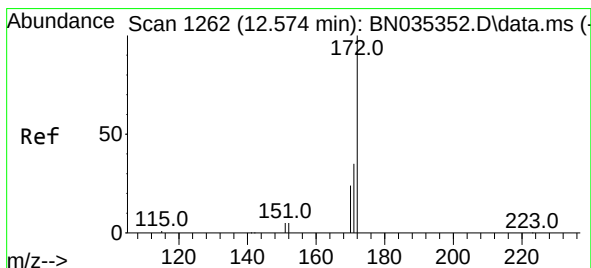
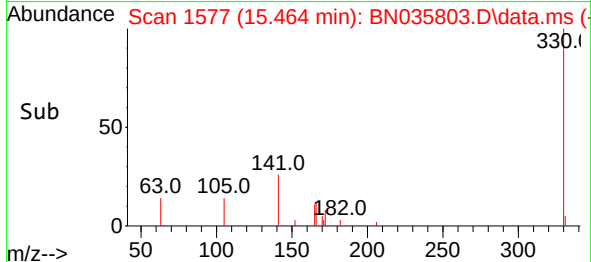
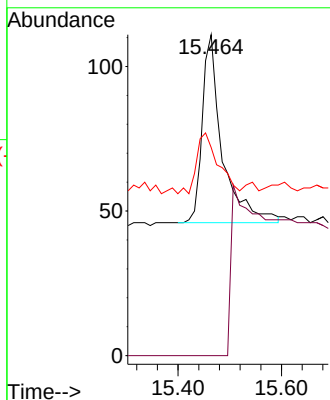
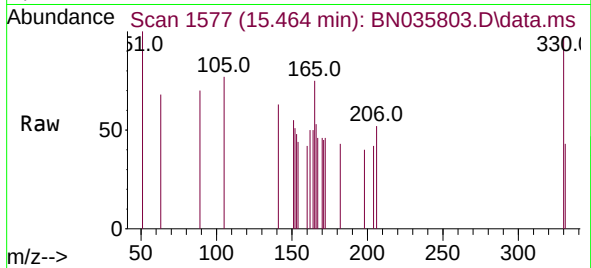




#14
2,4,6-Tribromophenol
Concen: 0.065 ng
RT: 15.464 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

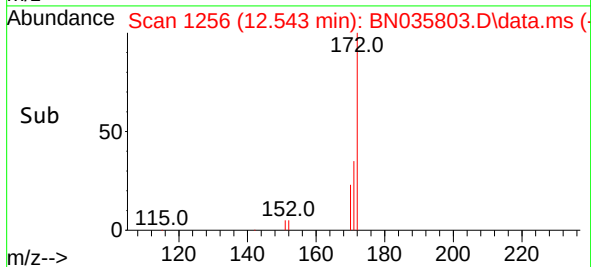
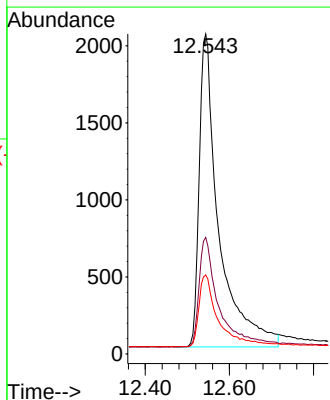
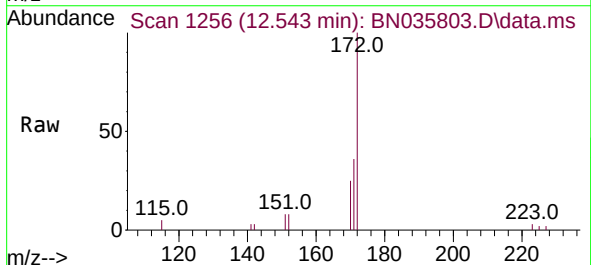
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

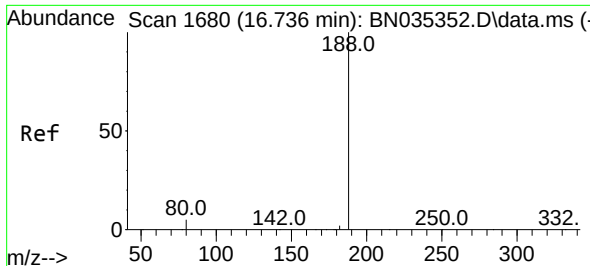
Tgt Ion:330 Resp: 183
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.9 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.439 ng
RT: 12.543 min Scan# 1256
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion:172 Resp: 6568
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 24.7 19.8 29.8

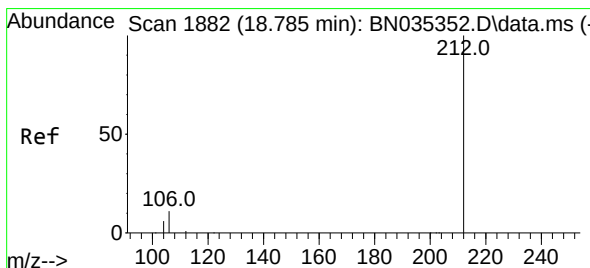
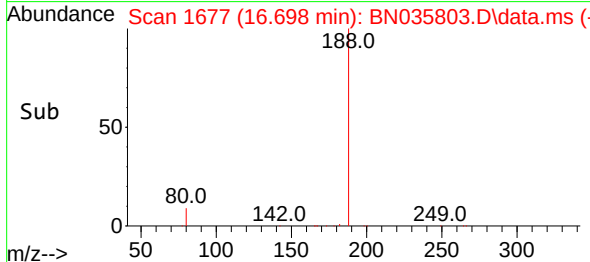
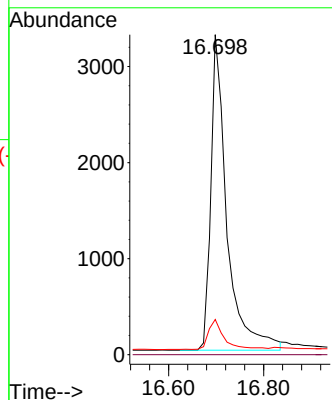
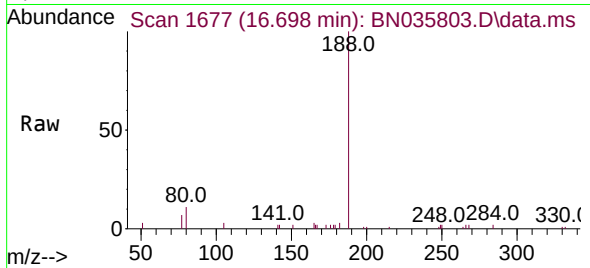




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

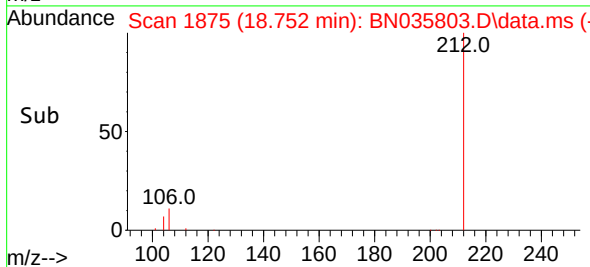
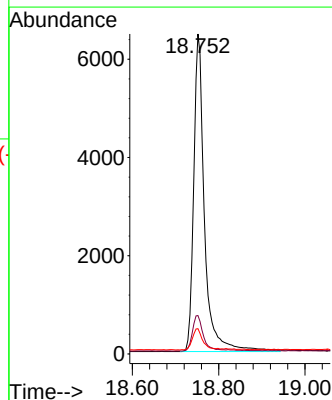
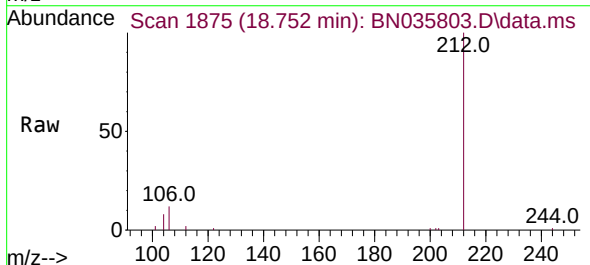
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

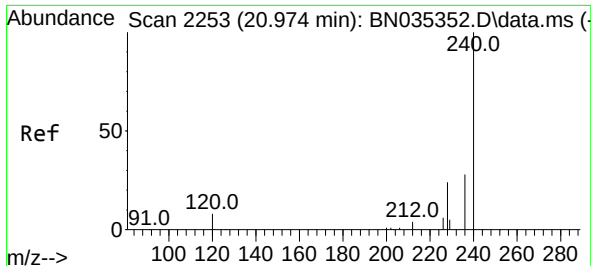
Tgt Ion:188 Resp: 7717
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.512 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion:212 Resp: 11193
Ion Ratio Lower Upper
212 100
106 11.2 9.2 13.8
104 6.6 5.3 7.9

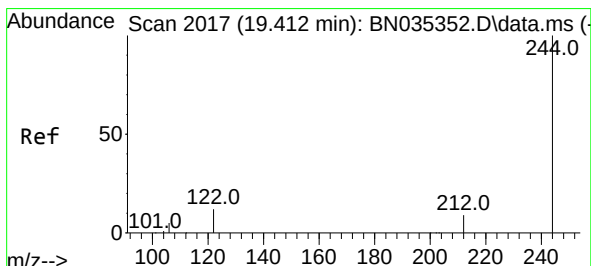
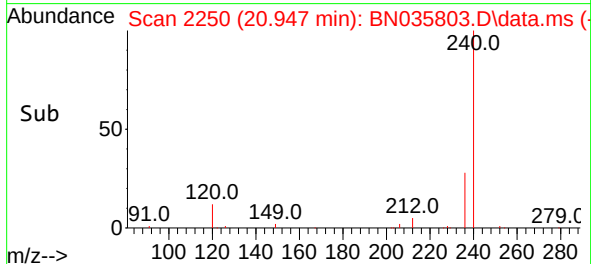
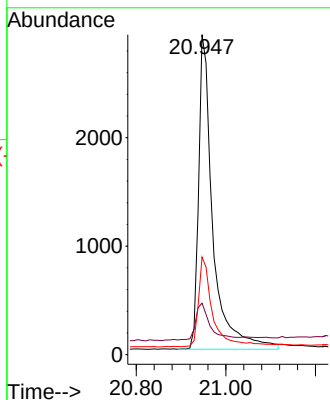
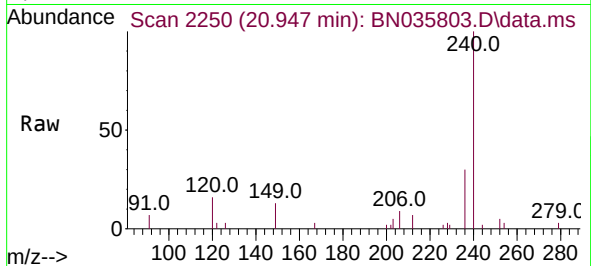




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

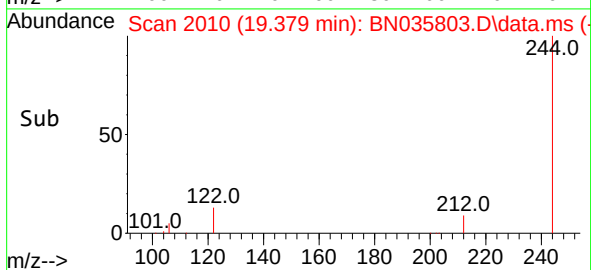
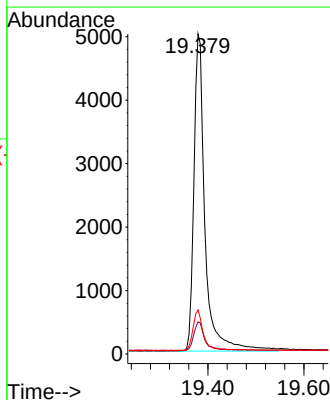
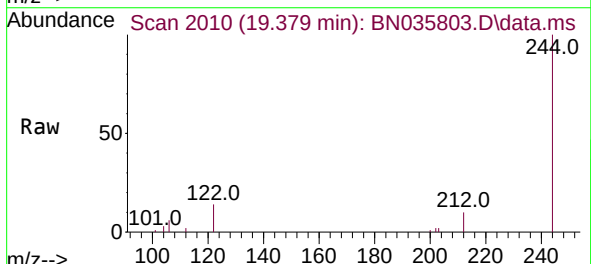
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241212

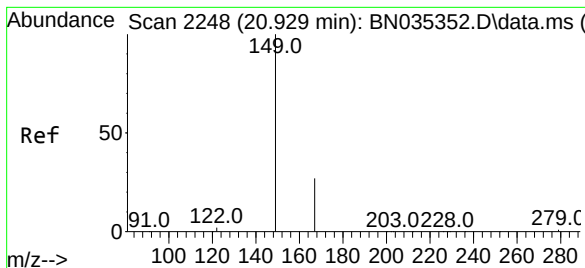
Tgt Ion:240 Resp: 6406
Ion Ratio Lower Upper
240 100
120 16.1 7.9 11.9#
236 30.5 22.9 34.3



#31
Terphenyl-d14
Concen: 0.638 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035803.D
Acq: 24 Dec 2024 03:36

Tgt Ion:244 Resp: 8059
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 13.8 10.3 15.5

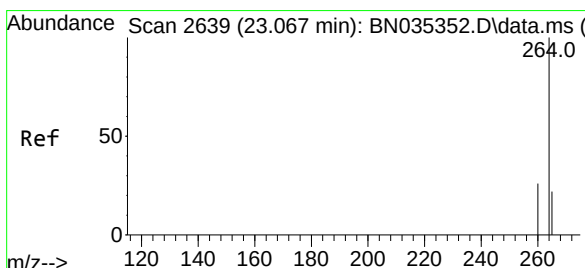
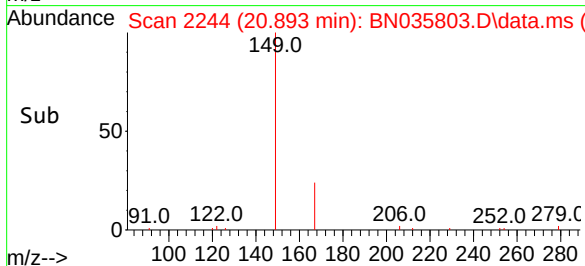
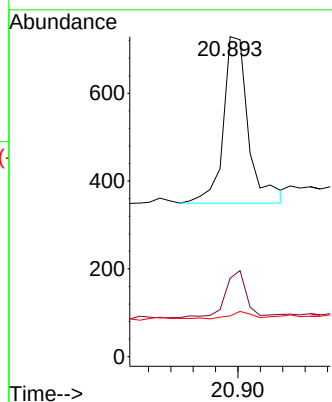
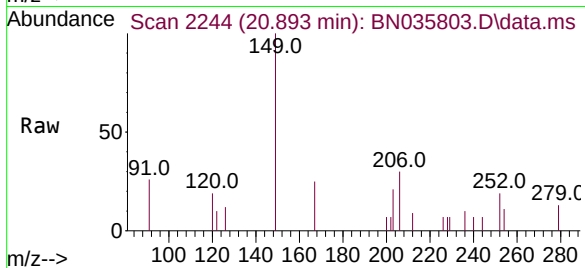




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.067 ng
 RT: 20.893 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BN035803.D
 Acq: 24 Dec 2024 03:36

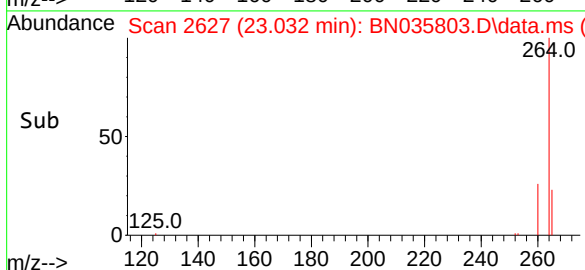
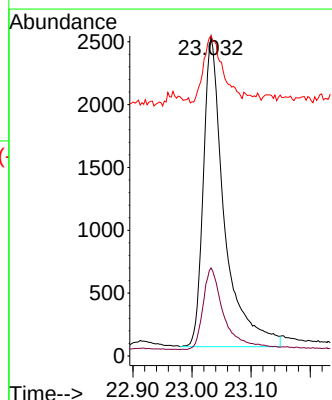
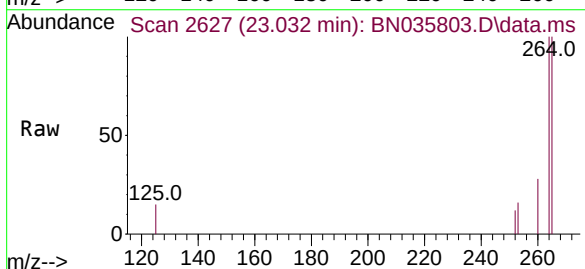
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20241212

Tgt Ion:149 Resp: 590
 Ion Ratio Lower Upper
 149 100
 167 23.9 22.2 33.4
 279 3.7 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: BN035803.D
 Acq: 24 Dec 2024 03:36

Tgt Ion:264 Resp: 6112
 Ion Ratio Lower Upper
 264 100
 260 27.6 21.4 32.2
 265 100.2 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035804.D
 Acq On : 24 Dec 2024 04:12
 Operator : RC/JU
 Sample : P5282-04
 Misc :
 ALS Vial : 86 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20241212

Quant Time: Dec 24 04:51:01 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)

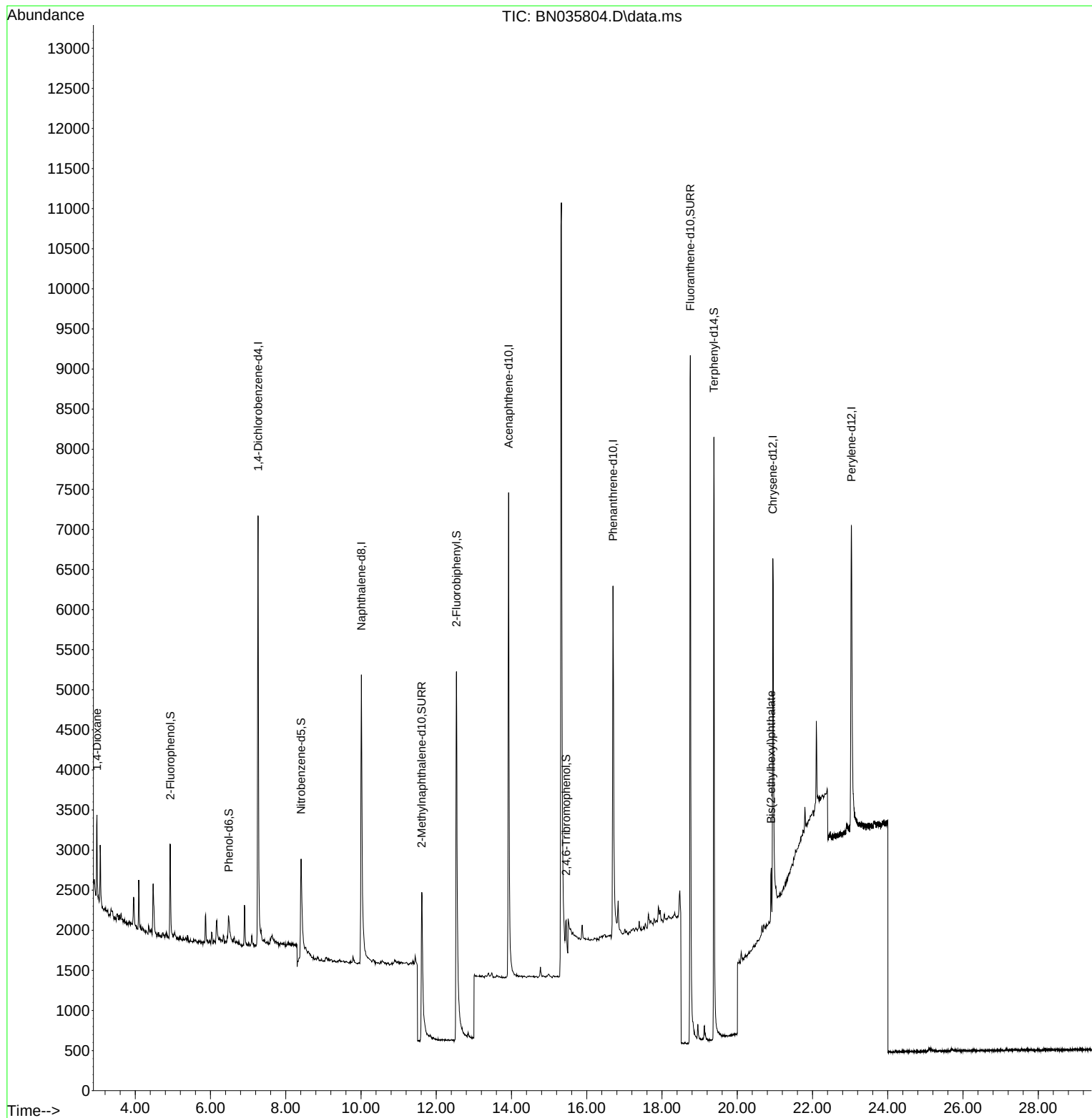
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3113	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7128	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4215	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8493	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6562	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	6560	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	1108	0.142	ng	0.00
5) Phenol-d6	6.484	99	597	0.064	ng	0.00
8) Nitrobenzene-d5	8.408	82	2390	0.549	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4759	0.427	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	564	0.189	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	7460	0.468	ng	0.00
27) Fluoranthene-d10	18.752	212	12849	0.534	ng	0.00
31) Terphenyl-d14	19.379	244	8860	0.684	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	778	0.261	ng	93
34) Bis(2-ethylhexyl)phtha...	20.902	149	732	0.081	ng	# 94

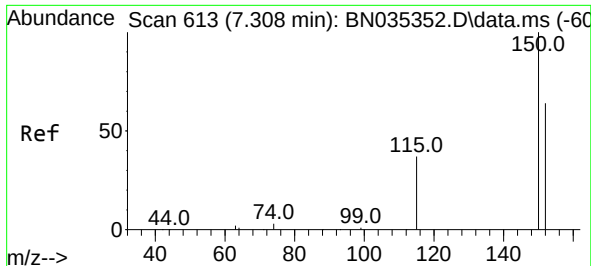
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035804.D
Acq On : 24 Dec 2024 04:12
Operator : RC/JU
Sample : P5282-04
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

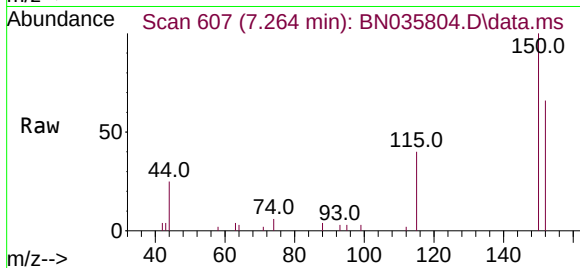
Quant Time: Dec 24 04:51:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





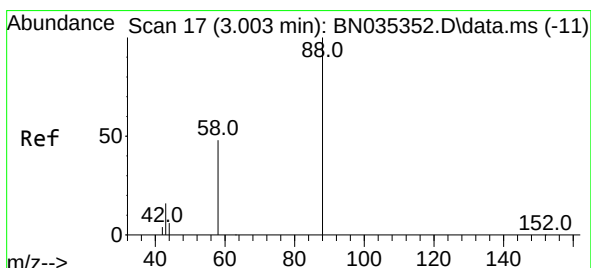
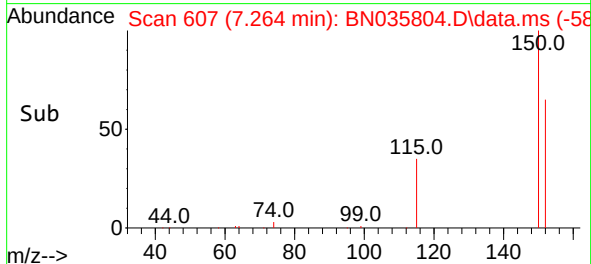
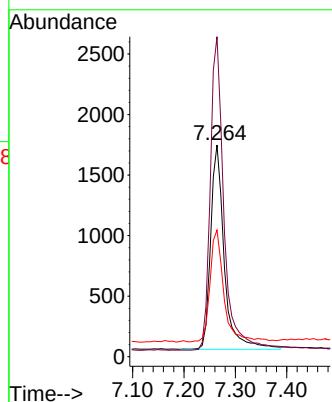
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN035804.D
 Acq: 24 Dec 2024 04:12

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20241212



Tgt Ion:152 Resp: 3113

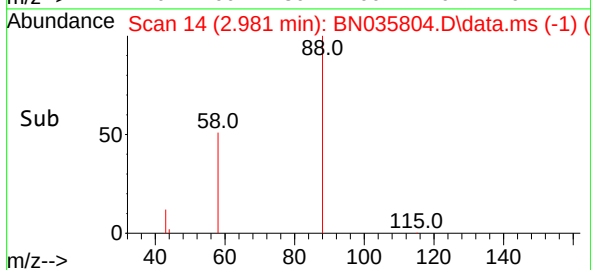
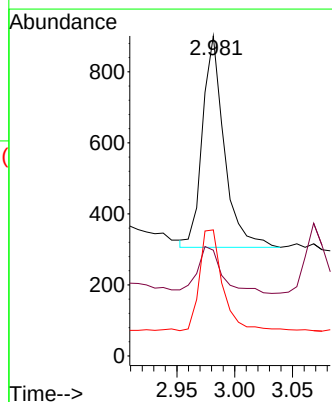
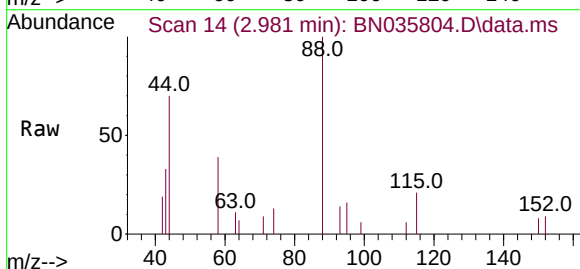
Ion	Ratio	Lower	Upper
152	100		
150	151.1	124.0	186.0
115	59.9	49.6	74.4

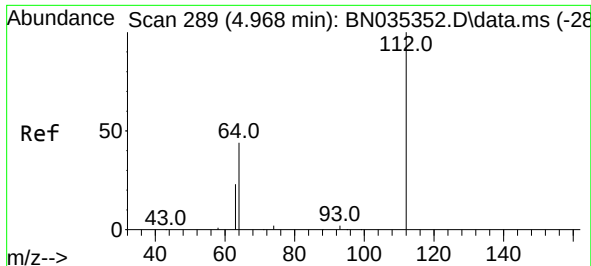


#2
 1,4-Dioxane
 Concen: 0.261 ng
 RT: 2.981 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035804.D
 Acq: 24 Dec 2024 04:12

Tgt Ion: 88 Resp: 778

Ion	Ratio	Lower	Upper
88	100		
43	25.2	17.2	25.8
58	50.6	44.5	66.7

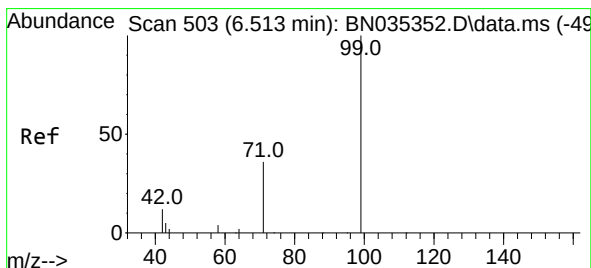
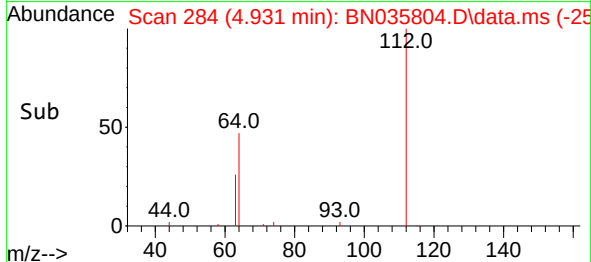
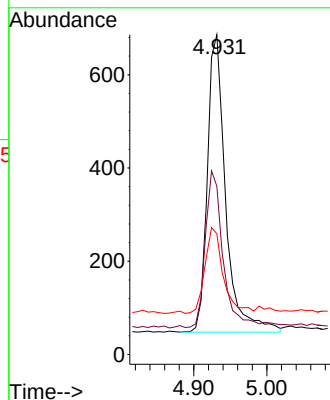
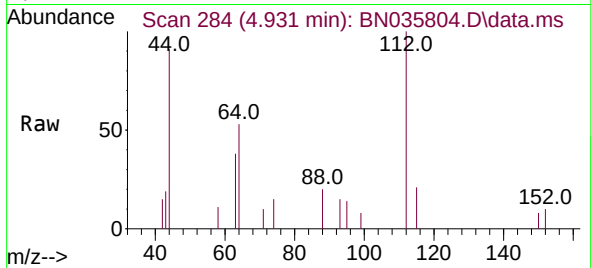




#4
2-Fluorophenol
Concen: 0.142 ng
RT: 4.931 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

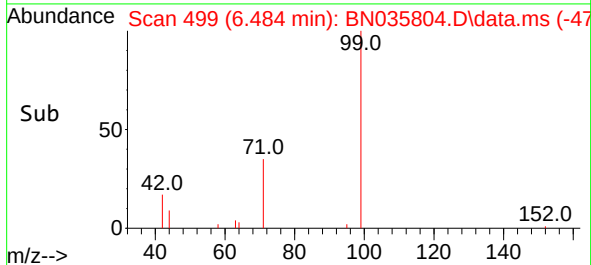
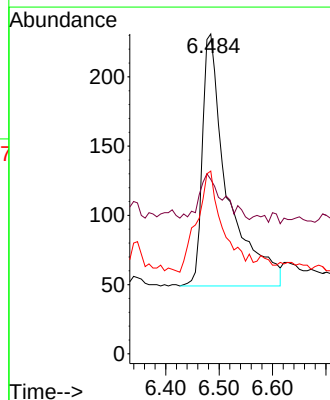
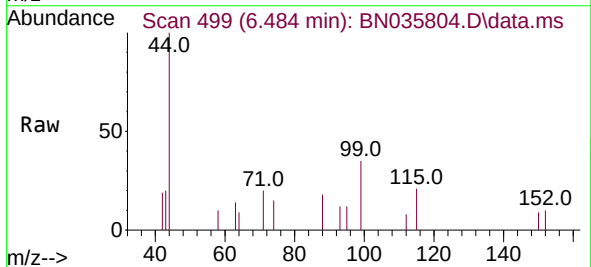
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

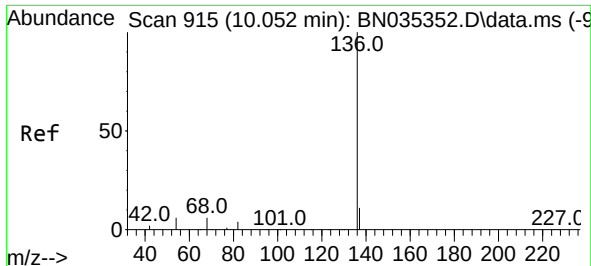
Tgt Ion:112 Resp: 1108
Ion Ratio Lower Upper
112 100
64 52.2 39.8 59.8
63 28.8 21.0 31.6



#5
Phenol-d6
Concen: 0.064 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion: 99 Resp: 597
Ion Ratio Lower Upper
99 100
42 19.4 11.4 17.2#
71 42.0 29.3 43.9

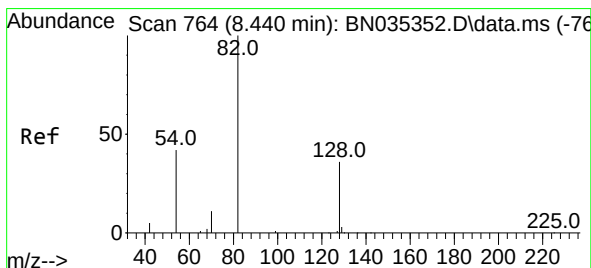
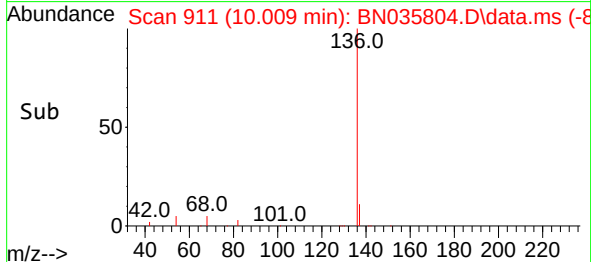
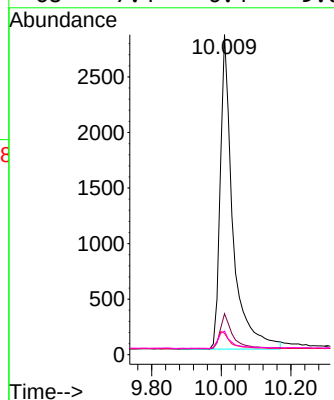
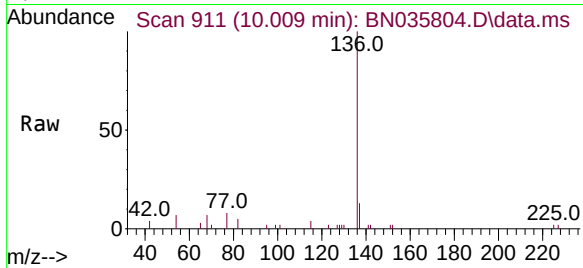




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

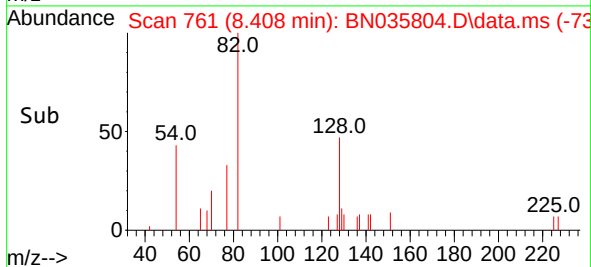
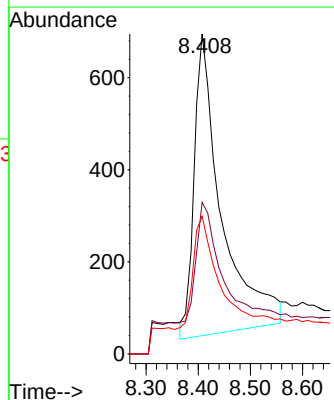
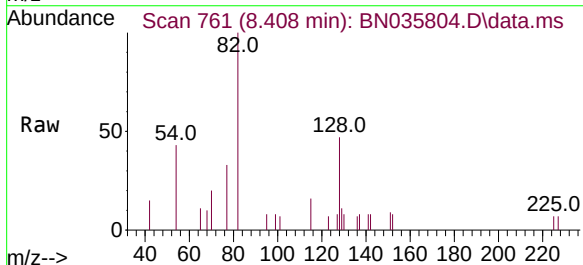
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

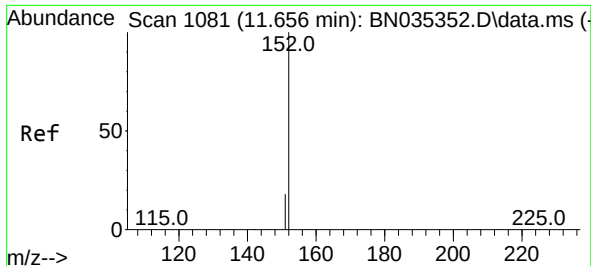
Tgt Ion:	136	Resp:	7128
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	6.7	6.1	9.1
68	7.4	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.549 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion:	82	Resp:	2390
Ion	Ratio	Lower	Upper
82	100		
128	47.3	33.4	50.0
54	43.0	36.7	55.1

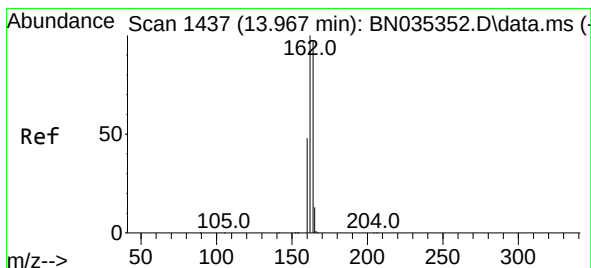
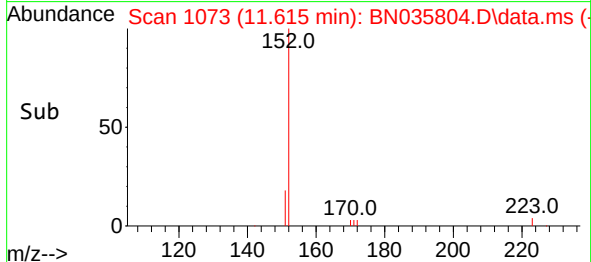
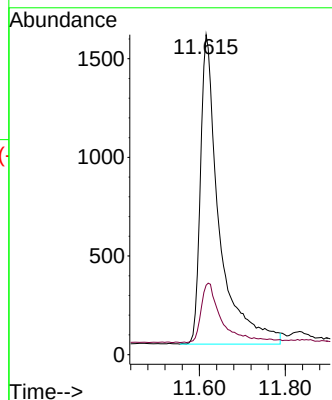
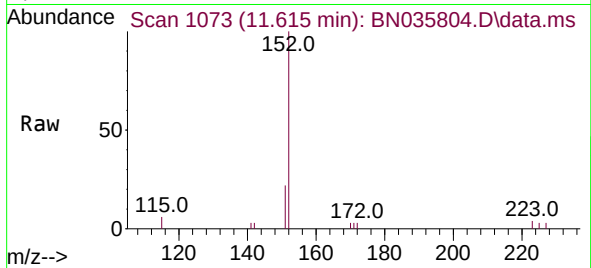




#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.615 min Scan# 1081
Delta R.T. -0.005 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

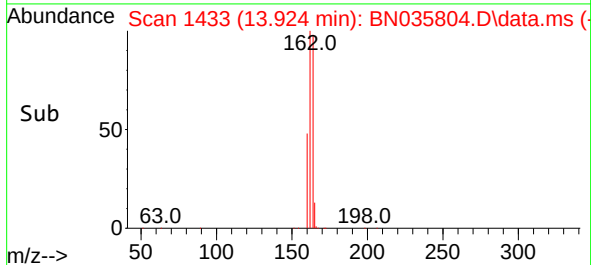
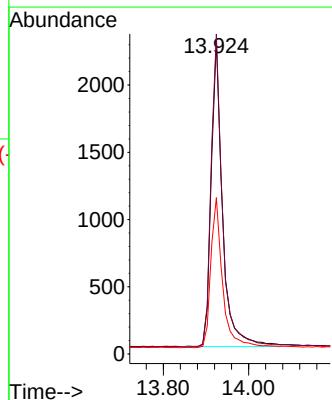
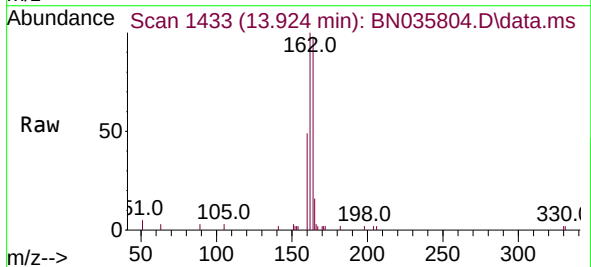
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

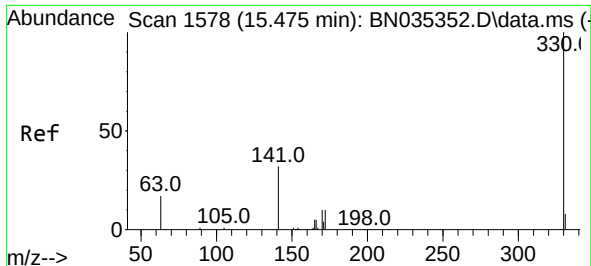
Tgt Ion:152 Resp: 4759
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

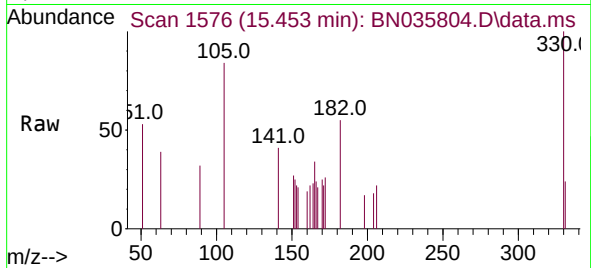
Tgt Ion:164 Resp: 4215
Ion Ratio Lower Upper
164 100
162 102.1 82.2 123.2
160 49.9 40.1 60.1



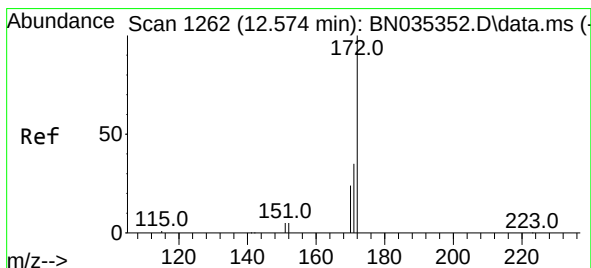
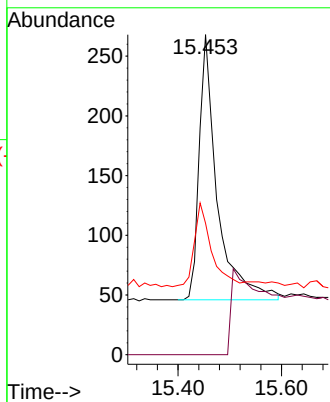
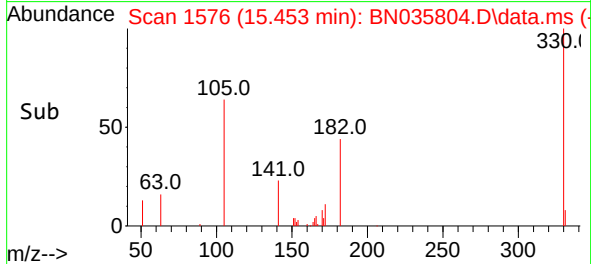


#14
2,4,6-Tribromophenol
Concen: 0.189 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

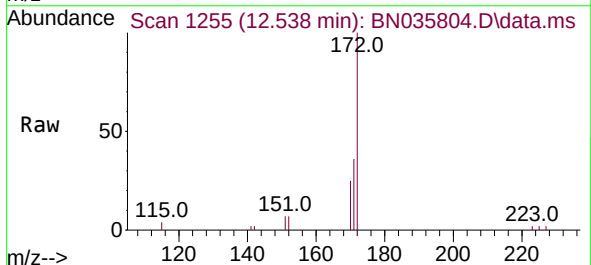
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212



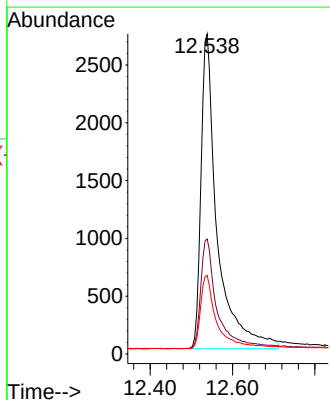
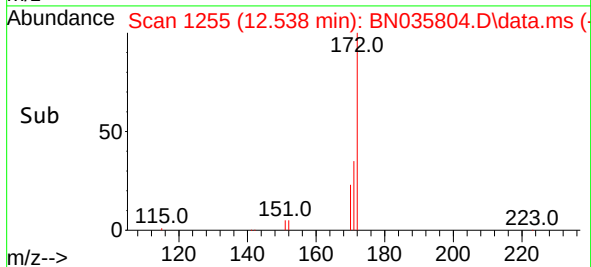
Tgt Ion:330 Resp: 564
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.4 26.6 40.0

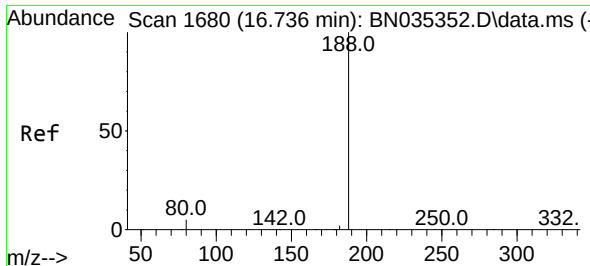


#15
2-Fluorobiphenyl
Concen: 0.468 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12



Tgt Ion:172 Resp: 7460
Ion Ratio Lower Upper
172 100
171 35.9 29.0 43.4
170 24.5 19.8 29.8

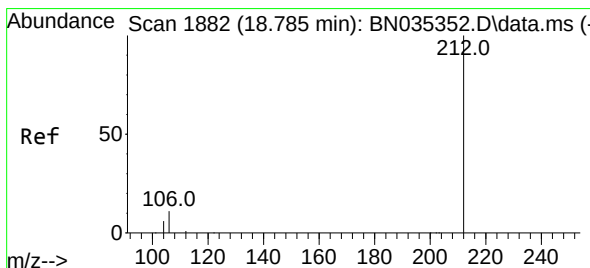
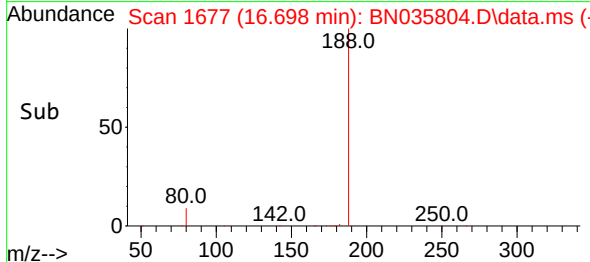
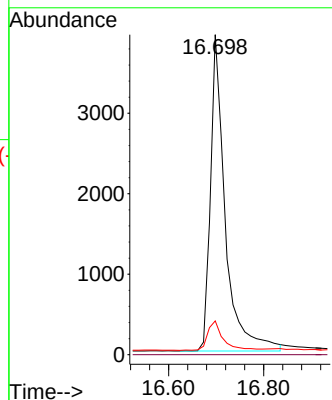
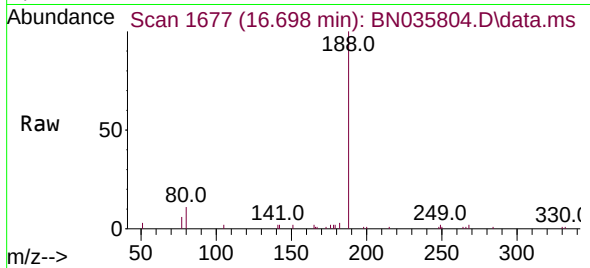




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

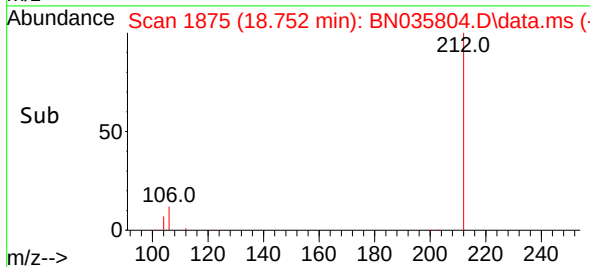
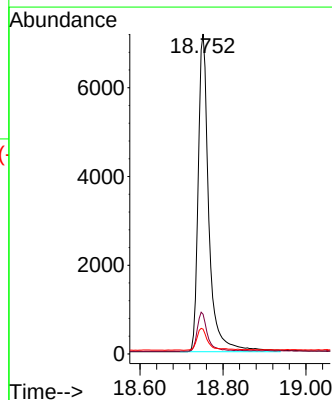
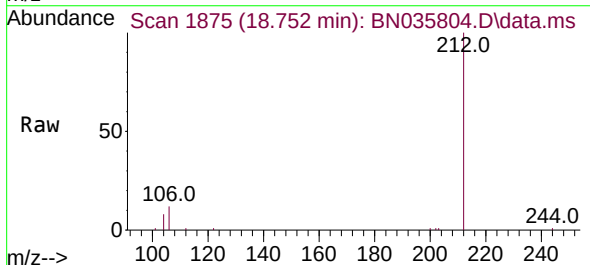
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

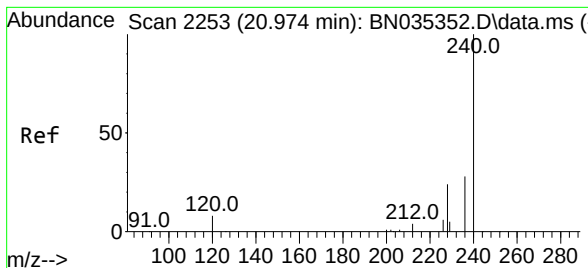
Tgt Ion:188 Resp: 8493
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.534 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion:212 Resp: 12849
Ion Ratio Lower Upper
212 100
106 12.0 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: BN035804.D

Acq: 24 Dec 2024 04:12

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241212

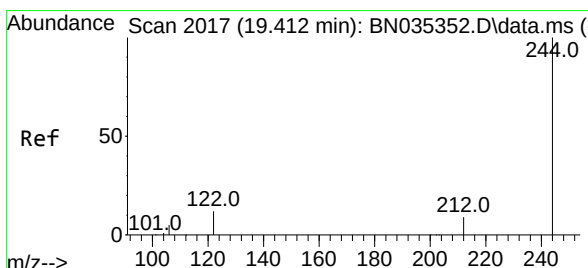
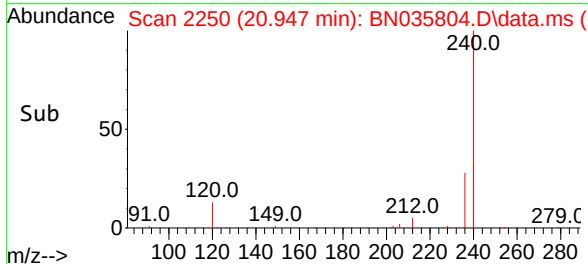
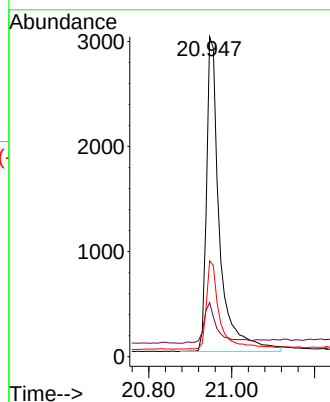
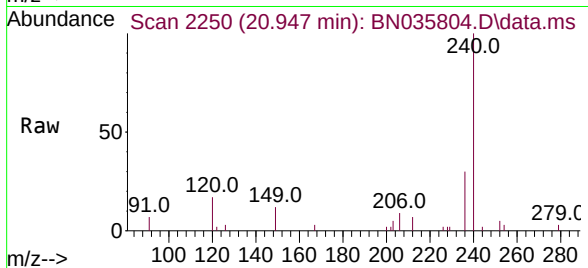
Tgt Ion:240 Resp: 6562

Ion Ratio Lower Upper

240 100

120 16.9 7.9 11.9#

236 30.0 22.9 34.3



#31

Terphenyl-d14

Concen: 0.684 ng

RT: 19.379 min Scan# 2010

Delta R.T. -0.010 min

Lab File: BN035804.D

Acq: 24 Dec 2024 04:12

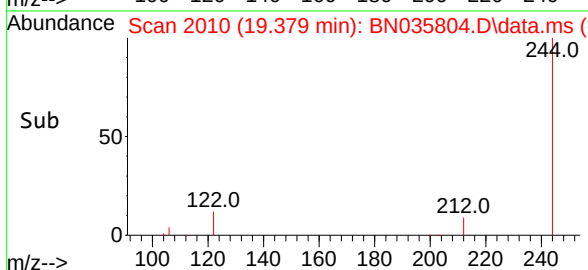
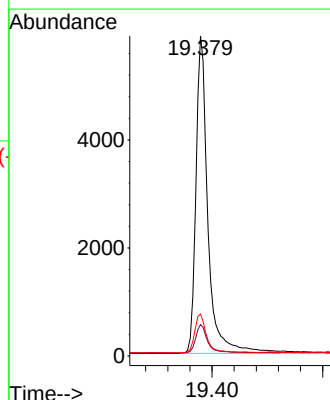
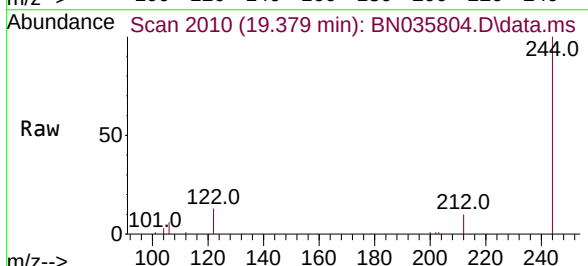
Tgt Ion:244 Resp: 8860

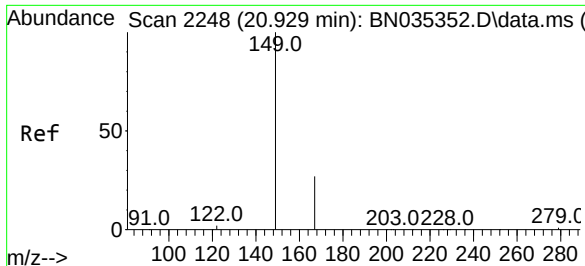
Ion Ratio Lower Upper

244 100

212 9.8 8.1 12.1

122 13.1 10.3 15.5

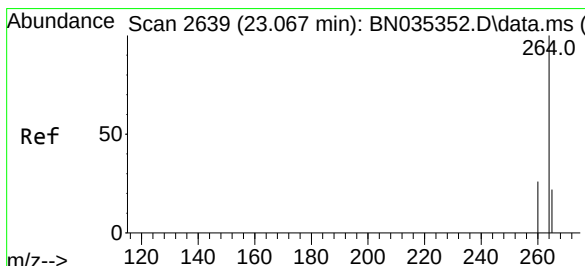
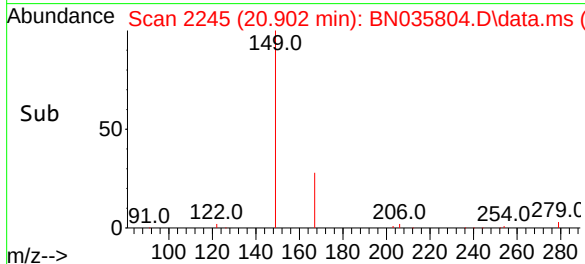
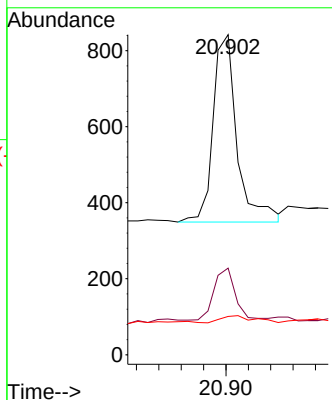
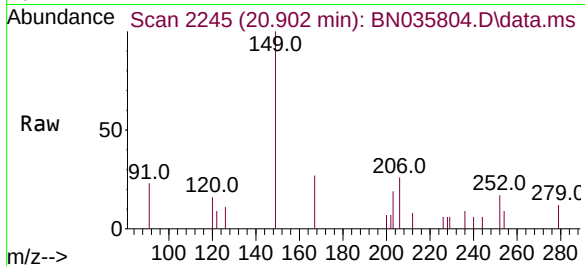




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.081 ng
RT: 20.902 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

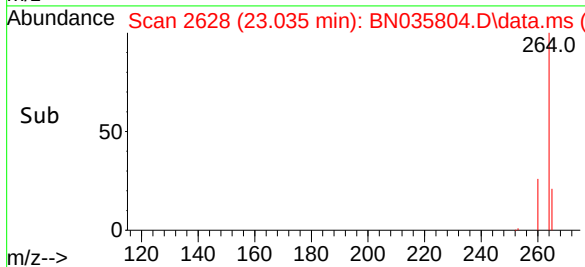
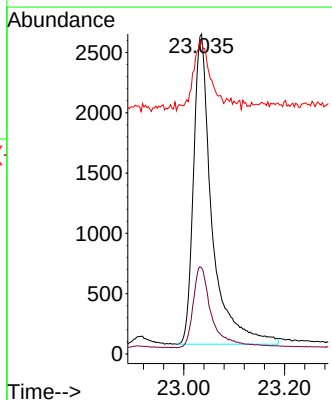
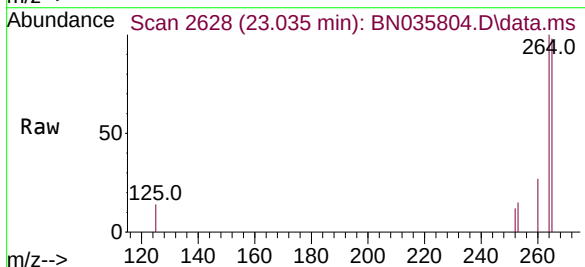
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241212

Tgt Ion:149 Resp: 732
Ion Ratio Lower Upper
149 100
167 24.6 22.2 33.4
279 5.3 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 2628
Delta R.T. -0.006 min
Lab File: BN035804.D
Acq: 24 Dec 2024 04:12

Tgt Ion:264 Resp: 6560
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 97.7 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035808.D
 Acq On : 24 Dec 2024 06:34
 Operator : RC/JU
 Sample : PB165667BS
 Misc :
 ALS Vial : 92 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165667BS

Quant Time: Dec 24 07:07:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

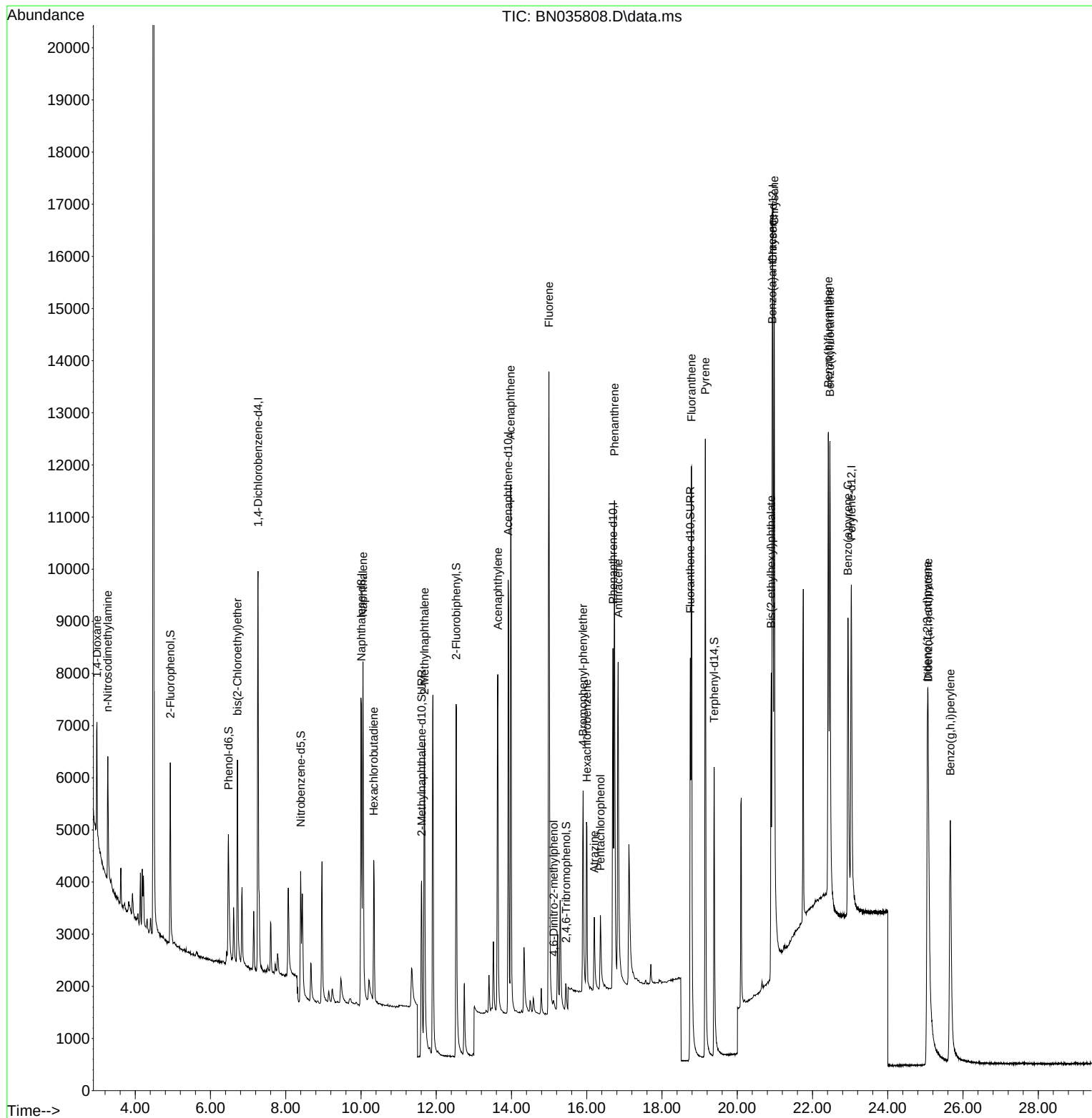
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4067	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9754	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	5527	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10920	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9467	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	9435	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3134	0.308	ng	0.00
5) Phenol-d6	6.477	99	3400	0.278	ng	-0.01
8) Nitrobenzene-d5	8.397	82	3006	0.505	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	7007	0.459	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	647	0.165	ng	0.00
15) 2-Fluorobiphenyl	12.528	172	8330	0.399	ng	-0.02
27) Fluoranthene-d10	18.752	212	11348	0.367	ng	0.00
31) Terphenyl-d14	19.384	244	8056	0.431	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1441	0.371	ng	# 72
3) n-Nitrosodimethylamine	3.271	42	1276	0.394	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	3429	0.333	ng	99
9) Naphthalene	10.052	128	9192	0.357	ng	100
10) Hexachlorobutadiene	10.340	225	2323	0.391	ng	# 99
12) 2-Methylnaphthalene	11.687	142	5969	0.324	ng	98
16) Acenaphthylene	13.636	152	8595	0.370	ng	99
17) Acenaphthene	13.978	154	5618	0.365	ng	99
18) Fluorene	14.994	166	7068	0.320	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	260	0.242	ng	# 30
21) 4-Bromophenyl-phenylether	15.904	248	2229	0.349	ng	# 91
22) Hexachlorobenzene	16.003	284	3165	0.422	ng	98
23) Atrazine	16.202	200	1619	0.356	ng	96
24) Pentachlorophenol	16.363	266	1112	0.341	ng	# 84
25) Phenanthrene	16.736	178	10790	0.360	ng	99
26) Anthracene	16.835	178	9628	0.355	ng	99
28) Fluoranthene	18.785	202	12957	0.320	ng	100
30) Pyrene	19.152	202	13632	0.390	ng	99
32) Benzo(a)anthracene	20.929	228	10627	0.321	ng	99
33) Chrysene	20.983	228	14185	0.415	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4640	0.355	ng	100
36) Indeno(1,2,3-cd)pyrene	25.053	276	13497	0.366	ng	98
37) Benzo(b)fluoranthene	22.421	252	22672	0.657	ng	96
38) Benzo(k)fluoranthene	22.462	252	14330	0.422	ng	97
39) Benzo(a)pyrene	22.942	252	11221	0.395	ng	# 92
40) Dibenzo(a,h)anthracene	25.076	278	9782	0.336	ng	93
41) Benzo(g,h,i)perylene	25.664	276	11572	0.380	ng	99

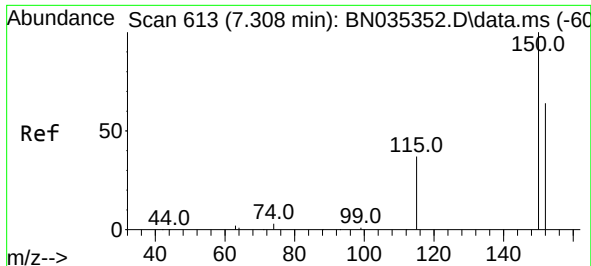
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035808.D
Acq On : 24 Dec 2024 06:34
Operator : RC/JU
Sample : PB165667BS
Misc :
ALS Vial : 92 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165667BS

Quant Time: Dec 24 07:07:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

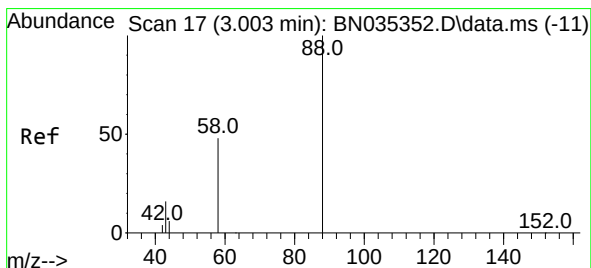
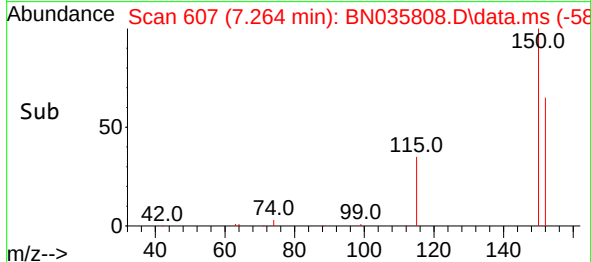
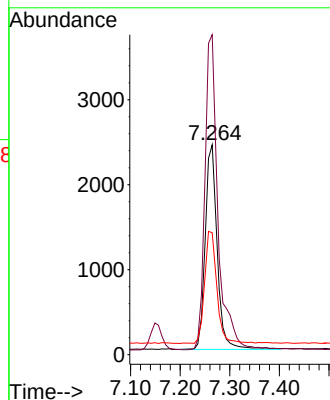
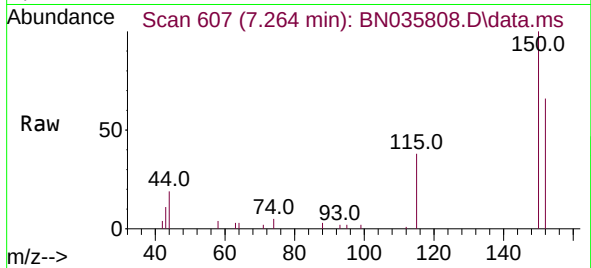




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.264 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN035808.D
 Acq: 24 Dec 2024 06:34

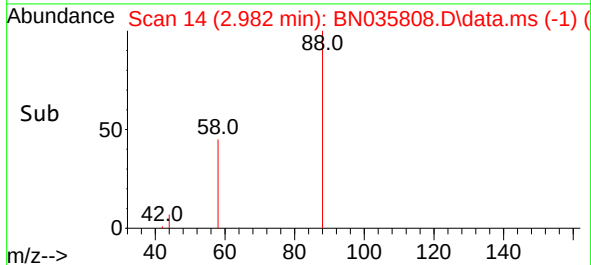
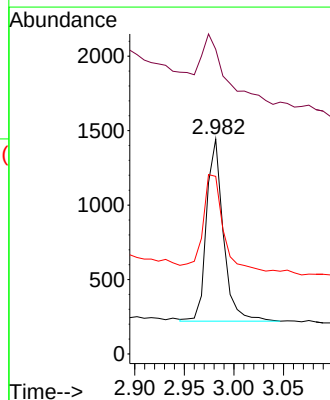
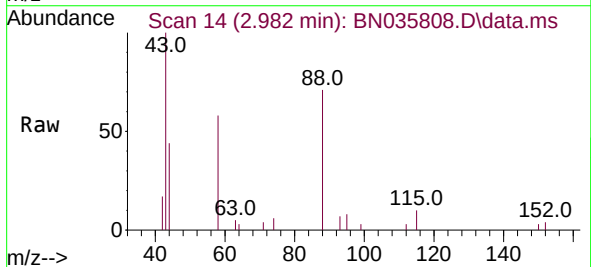
Instrument :
 BNA_N
 ClientSampleId :
 PB165667BS

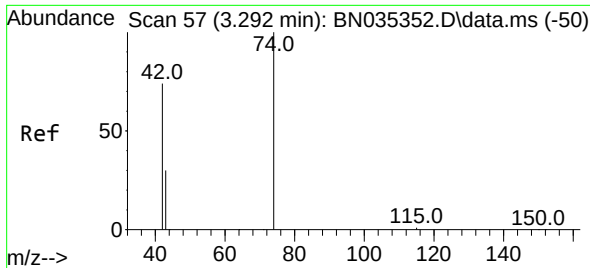
Tgt Ion:152 Resp: 4067
 Ion Ratio Lower Upper
 152 100
 150 152.4 124.0 186.0
 115 58.0 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.371 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035808.D
 Acq: 24 Dec 2024 06:34

Tgt Ion: 88 Resp: 1441
 Ion Ratio Lower Upper
 88 100
 43 55.2 17.2 25.8#
 58 64.2 44.5 66.7

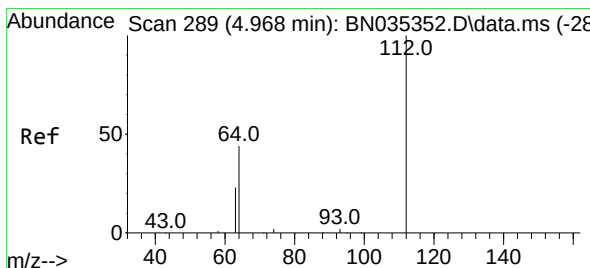
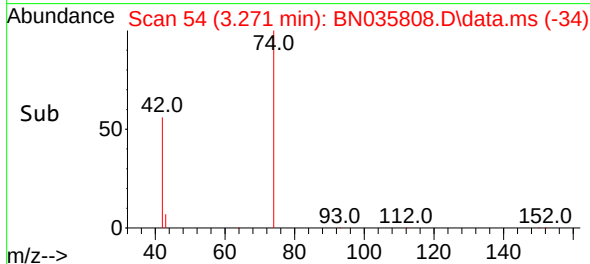
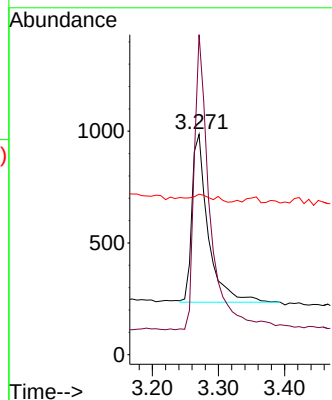
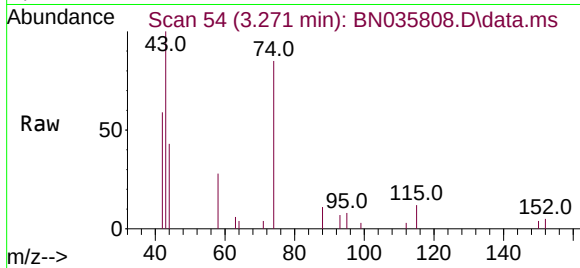




#3
n-Nitrosodimethylamine
Concen: 0.394 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

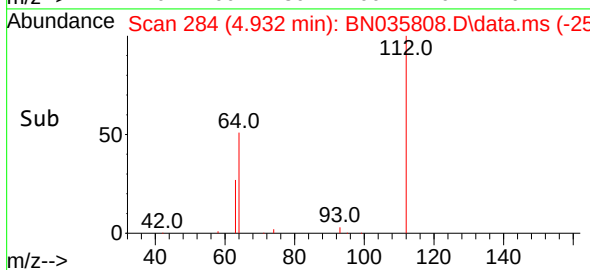
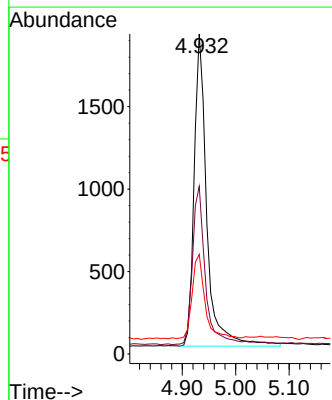
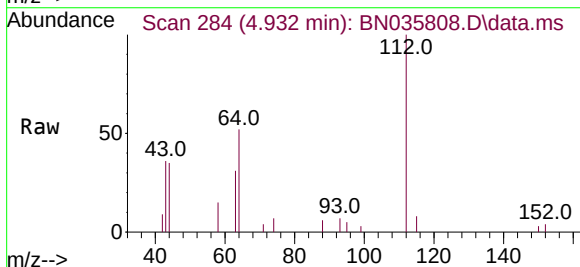
Instrument :
BNA_N
ClientSampleId :
PB165667BS

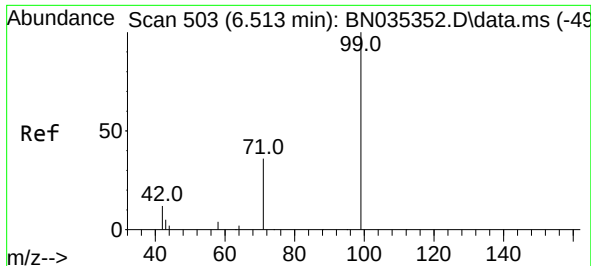
Tgt Ion: 42 Resp: 1276
Ion Ratio Lower Upper
42 100
74 171.2 124.9 187.3
44 6.1 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.308 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion: 112 Resp: 3134
Ion Ratio Lower Upper
112 100
64 51.3 39.8 59.8
63 27.3 21.0 31.6





#5

Phenol-d6

Concen: 0.278 ng

RT: 6.477 min Scan# 498

Delta R.T. -0.015 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS

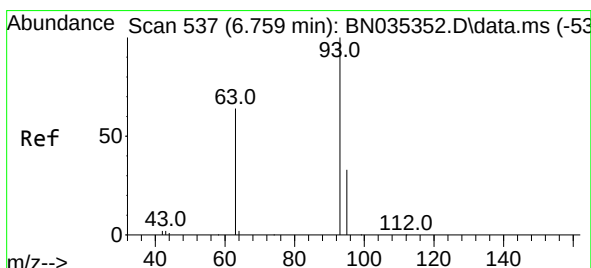
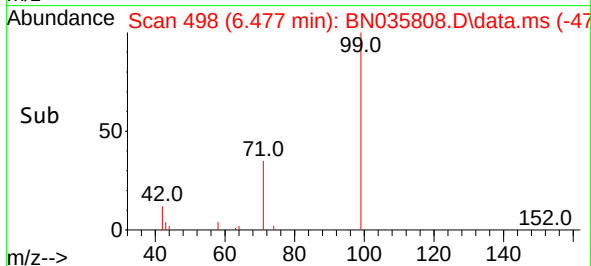
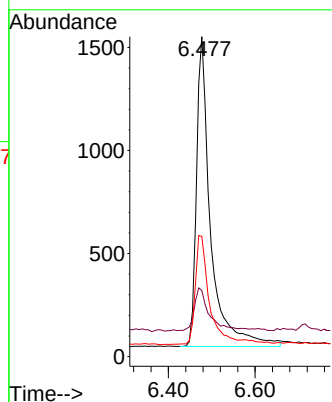
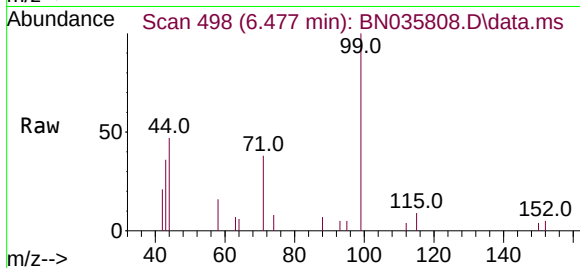
Tgt Ion: 99 Resp: 3400

Ion Ratio Lower Upper

99 100

42 14.5 11.4 17.2

71 34.8 29.3 43.9



#6

bis(2-Chloroethyl)ether

Concen: 0.333 ng

RT: 6.715 min Scan# 531

Delta R.T. -0.015 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

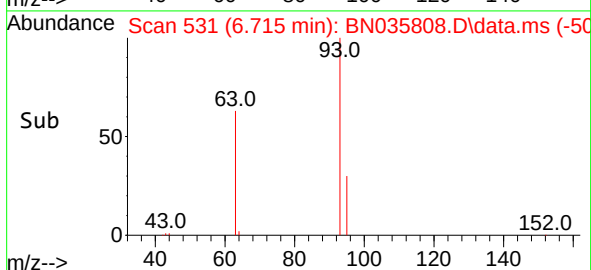
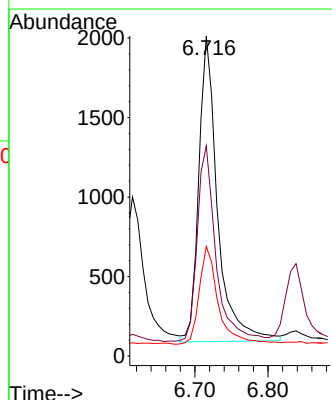
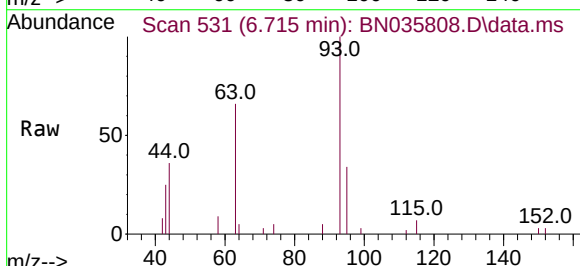
Tgt Ion: 93 Resp: 3429

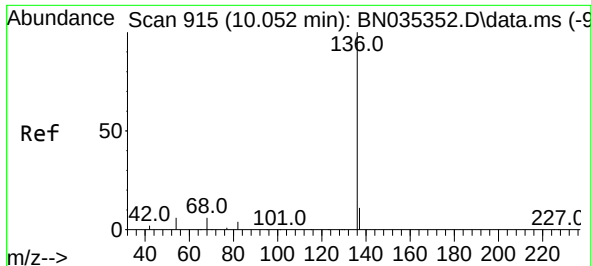
Ion Ratio Lower Upper

93 100

63 63.3 50.4 75.6

95 32.7 25.7 38.5

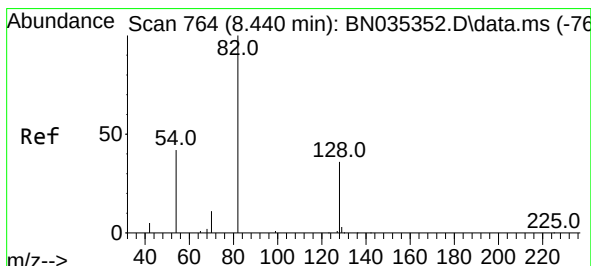
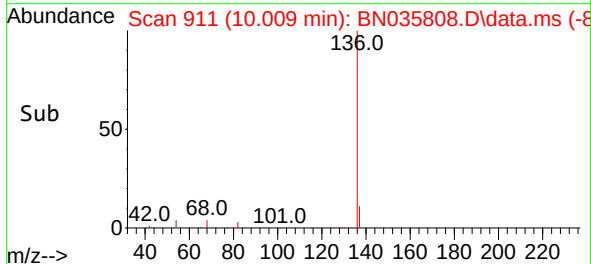
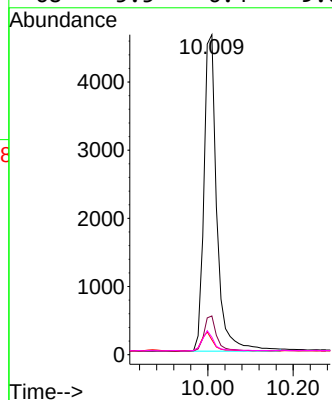
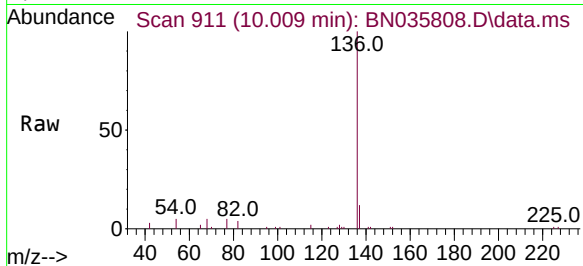




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

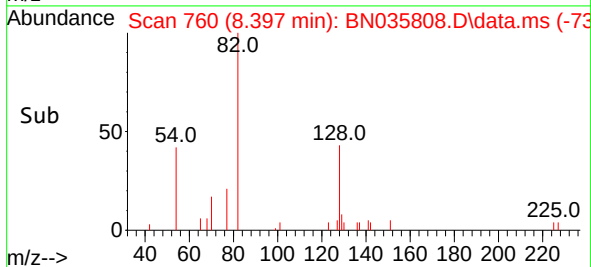
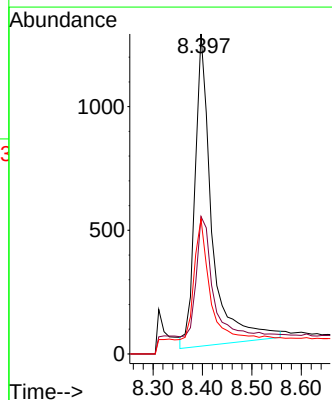
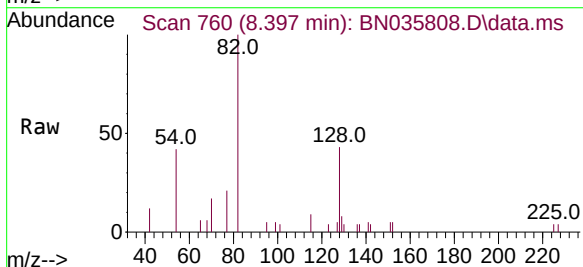
Instrument :
BNA_N
ClientSampleId :
PB165667BS

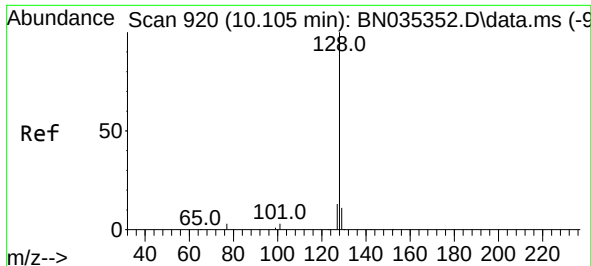
Tgt Ion:	136	Resp:	9754
Ion Ratio	Lower	Upper	
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.5	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.505 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:	82	Resp:	3006
Ion Ratio	Lower	Upper	
82	100		
128	43.0	33.4	50.0
54	42.2	36.7	55.1

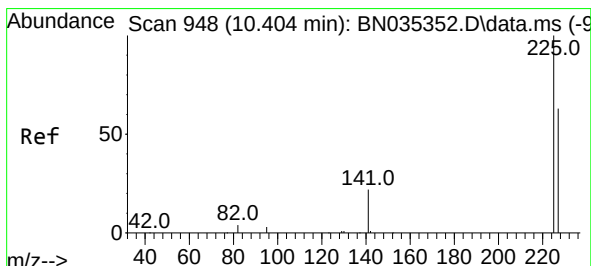
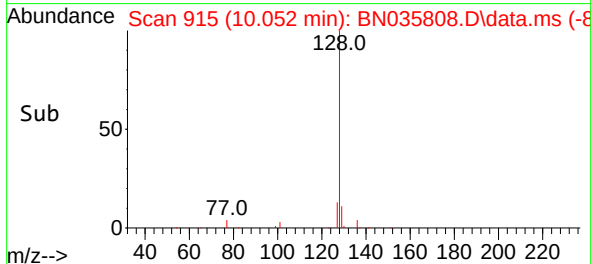
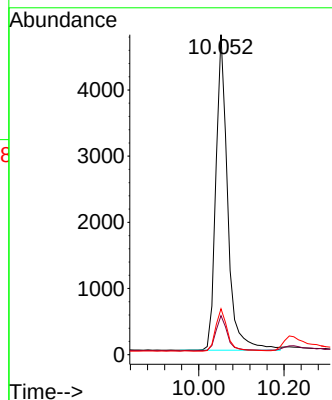
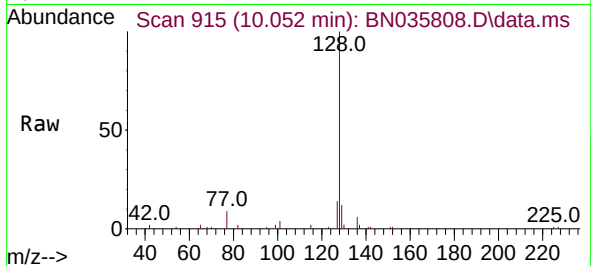




#9
Naphthalene
Concen: 0.357 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

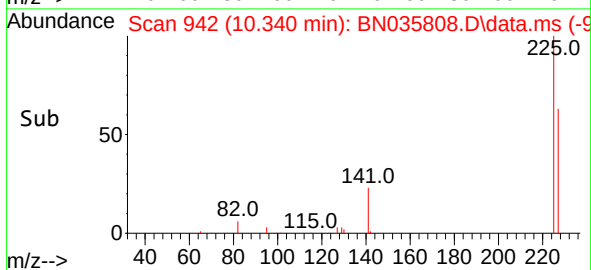
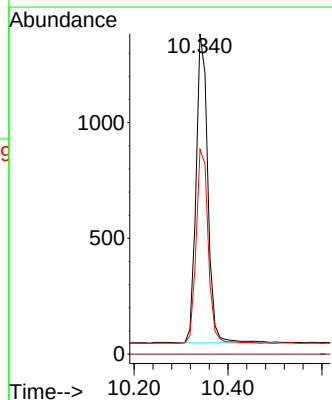
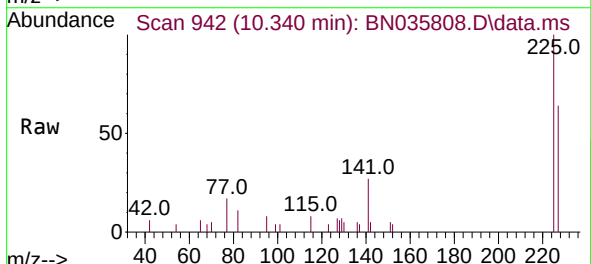
Instrument :
BNA_N
ClientSampleId :
PB165667BS

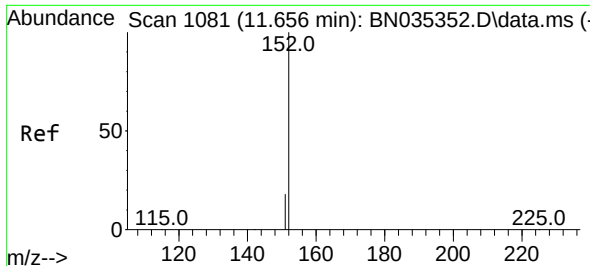
Tgt Ion:128 Resp: 9192
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.4 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:225 Resp: 2323
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9

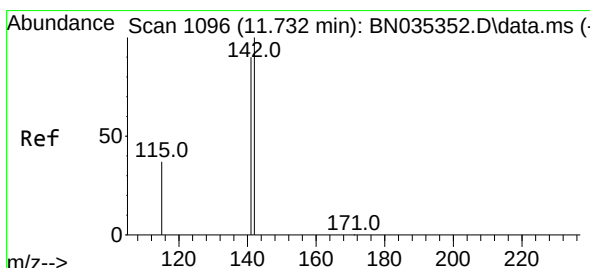
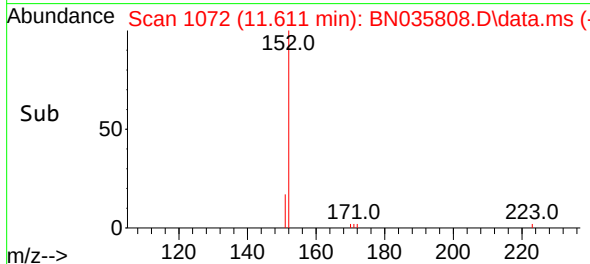
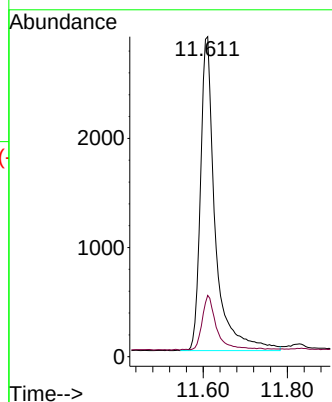
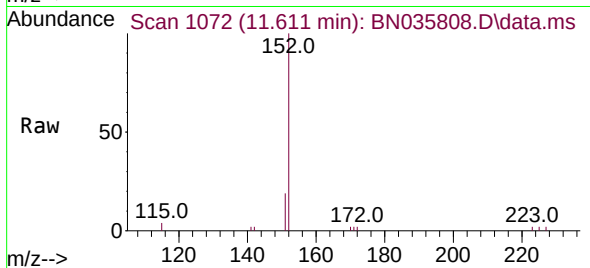




#11
2-Methylnaphthalene-d10
Concen: 0.459 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

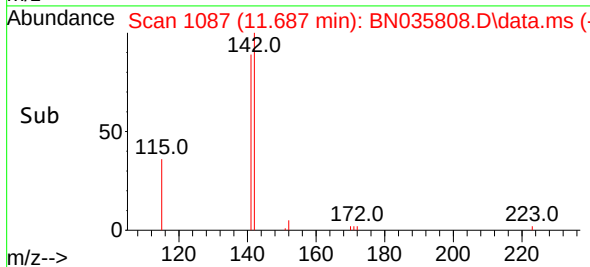
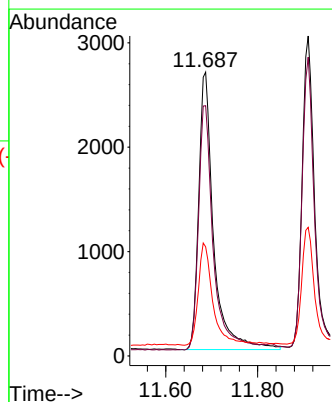
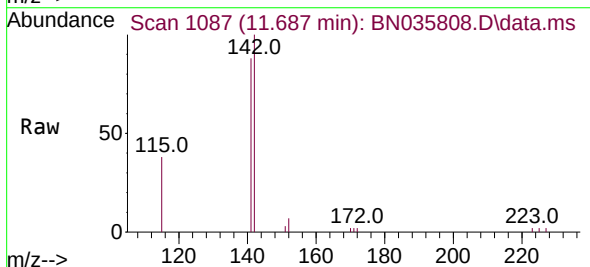
Instrument :
BNA_N
ClientSampleId :
PB165667BS

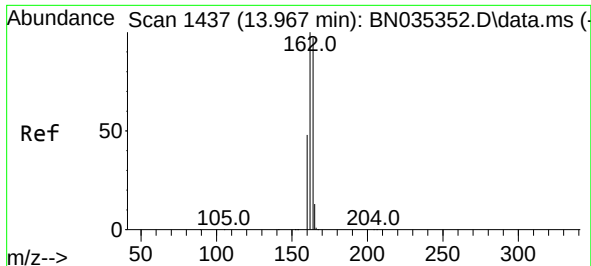
Tgt Ion:152 Resp: 7007
Ion Ratio Lower Upper
152 100
151 16.5 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.324 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:142 Resp: 5969
Ion Ratio Lower Upper
142 100
141 88.2 72.2 108.4
115 38.4 31.4 47.0

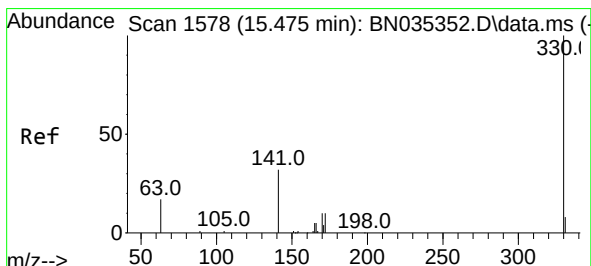
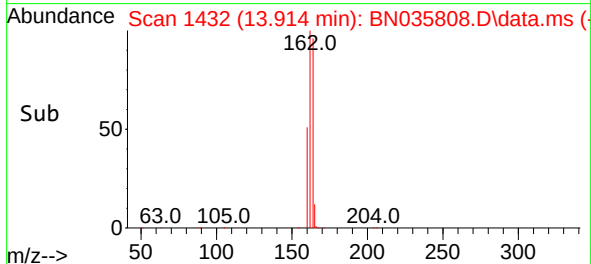
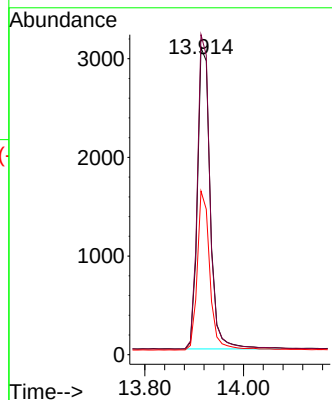
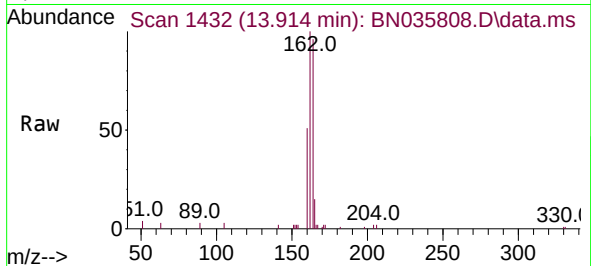




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

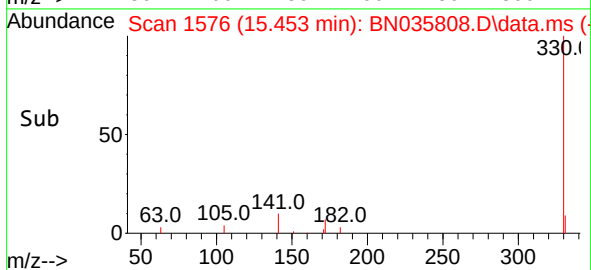
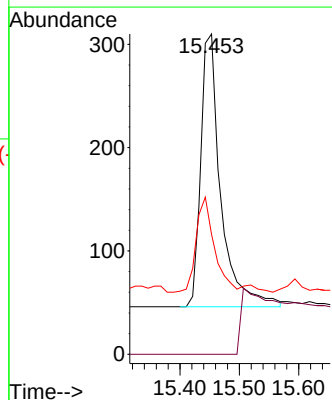
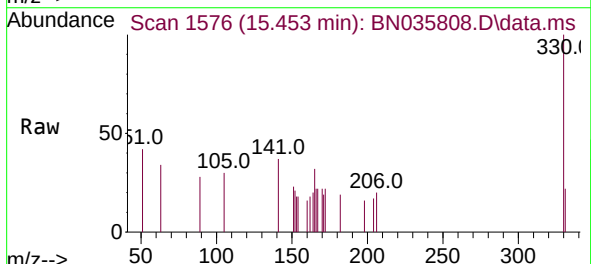
Instrument :
BNA_N
ClientSampleId :
PB165667BS

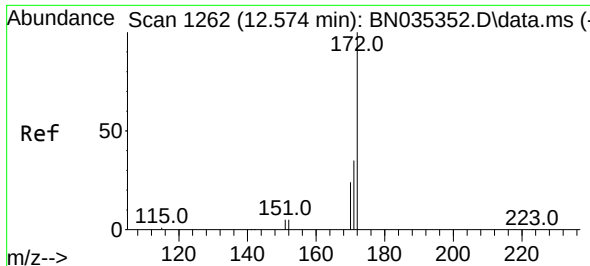
Tgt Ion:164 Resp: 5527
Ion Ratio Lower Upper
164 100
162 104.3 82.2 123.2
160 53.3 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.165 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:330 Resp: 647
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.3 26.6 40.0

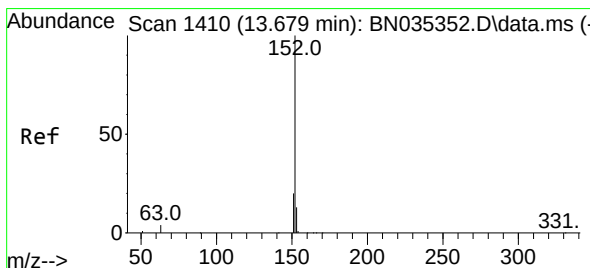
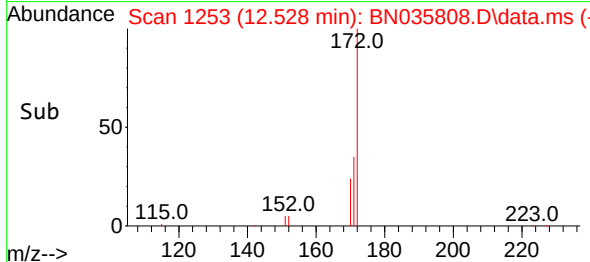
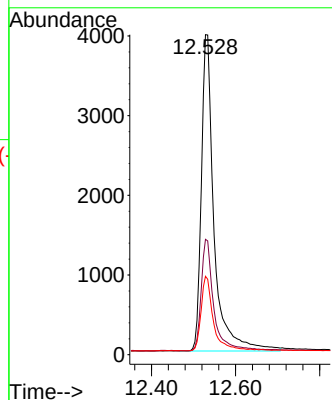
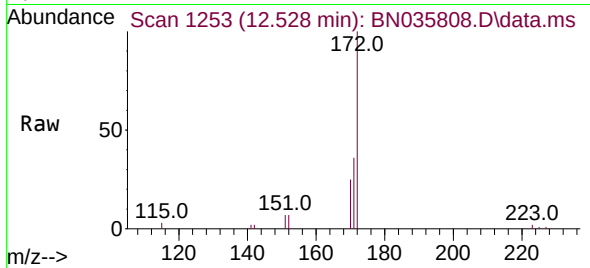




#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

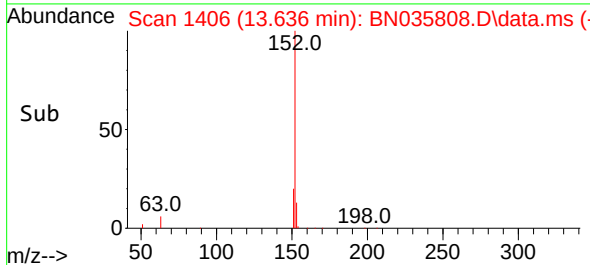
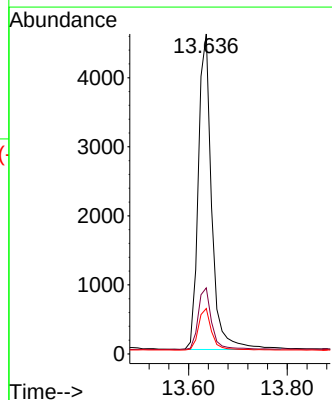
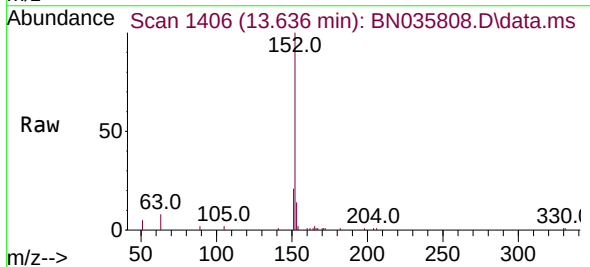
Instrument :
BNA_N
ClientSampleId :
PB165667BS

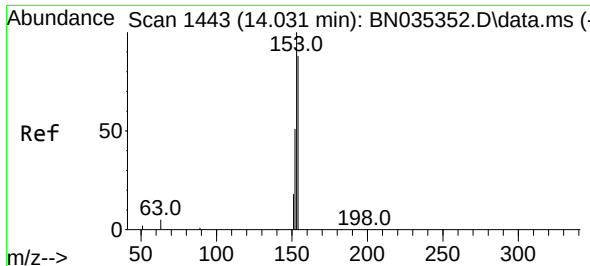
Tgt Ion:172 Resp: 8330
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.4
170 24.5 19.8 29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:152 Resp: 8595
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.1 10.4 15.6

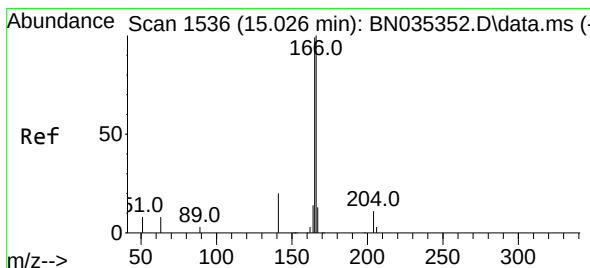
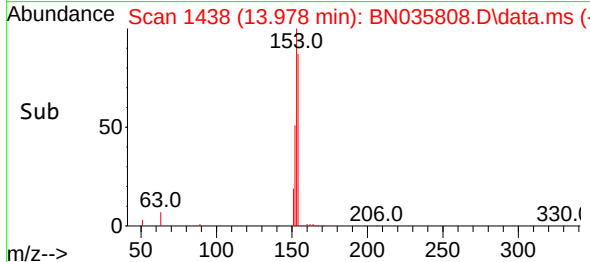
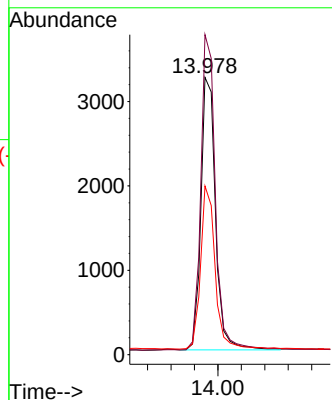
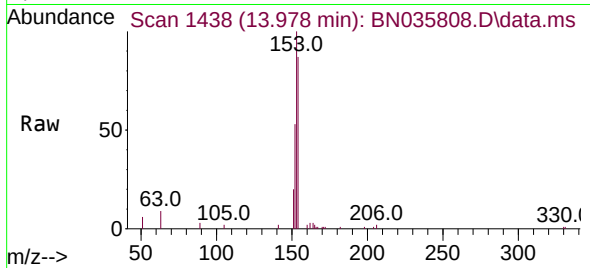




#17
Acenaphthene
Concen: 0.365 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

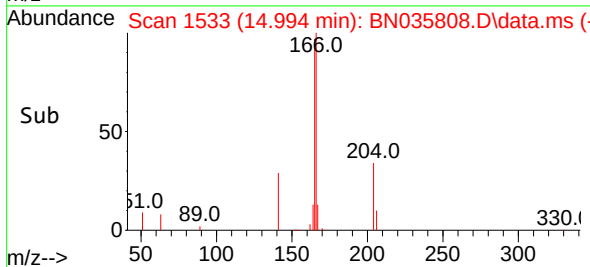
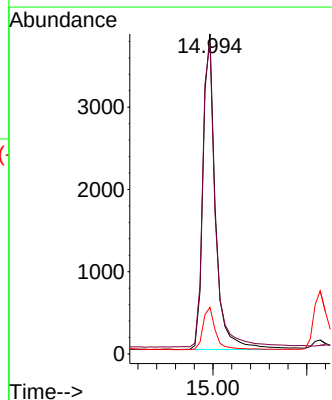
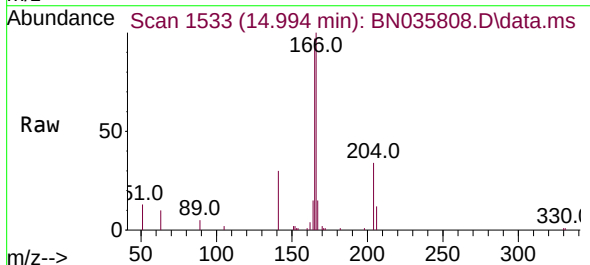
Instrument :
BNA_N
ClientSampleId :
PB165667BS

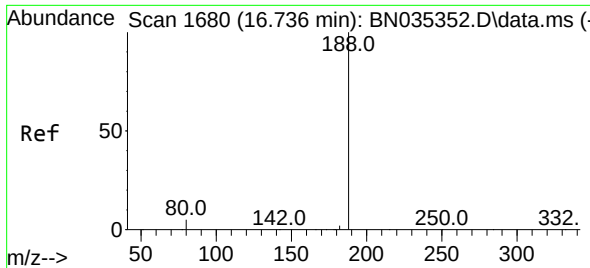
Tgt Ion:154 Resp: 5618
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 59.8 49.0 73.6



#18
Fluorene
Concen: 0.320 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:166 Resp: 7068
Ion Ratio Lower Upper
166 100
165 98.7 79.7 119.5
167 13.7 10.8 16.2

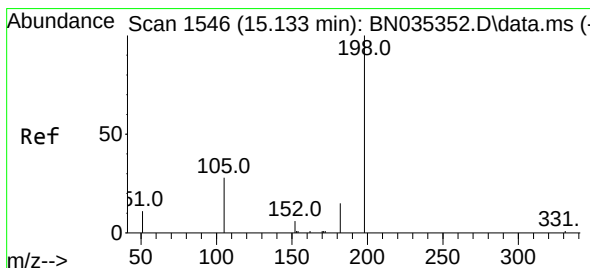
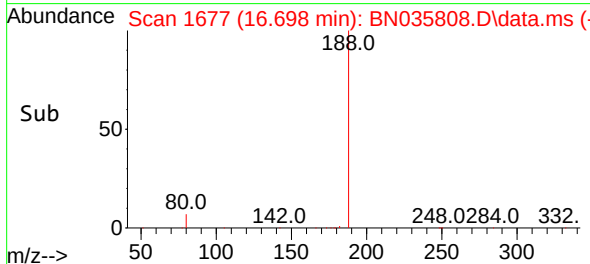
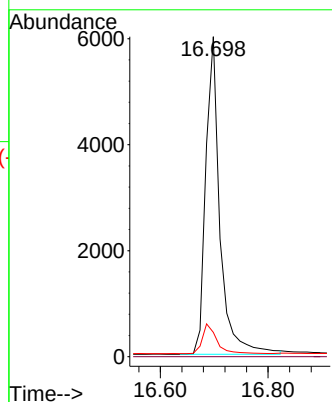
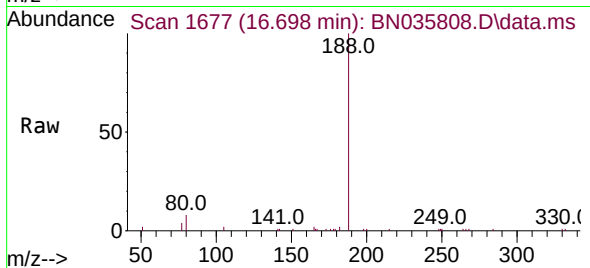




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

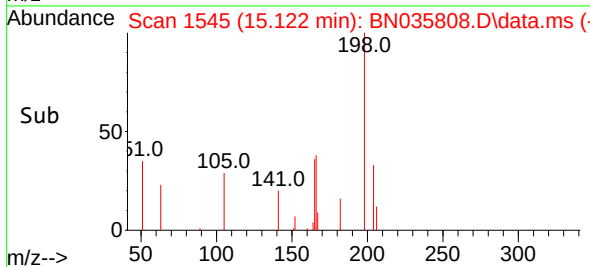
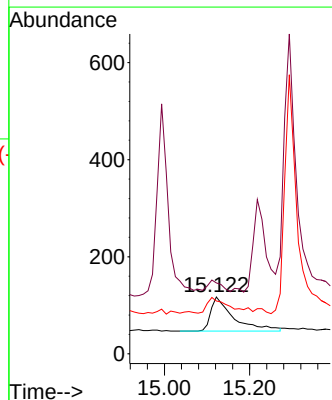
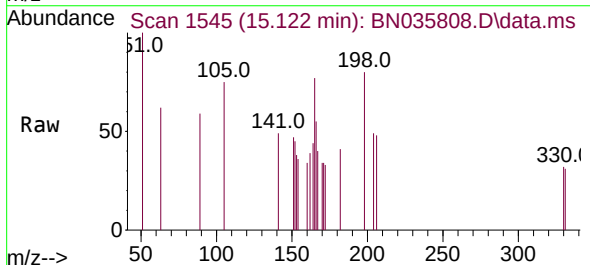
Instrument :
BNA_N
ClientSampleId :
PB165667BS

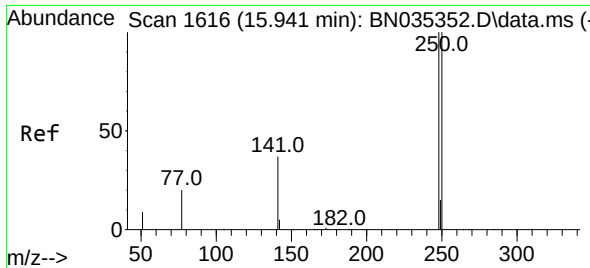
Tgt Ion:188 Resp: 10920
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.6 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.242 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:198 Resp: 260
Ion Ratio Lower Upper
198 100
51 124.8 46.5 69.7#
105 93.2 45.3 67.9#

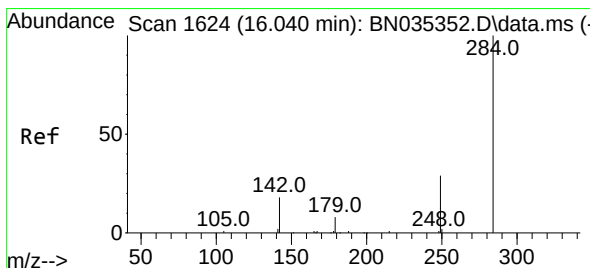
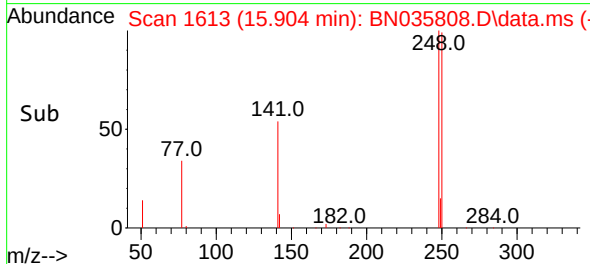
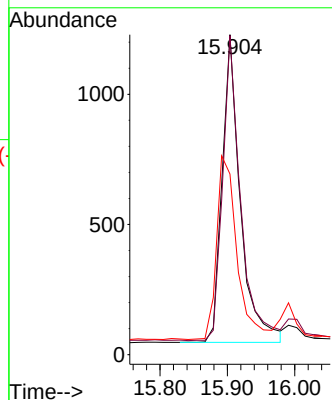
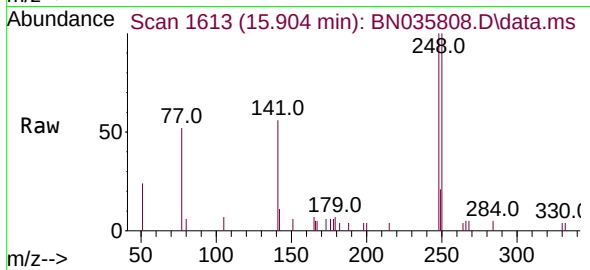




#21
4-Bromophenyl-phenylether
Concen: 0.349 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

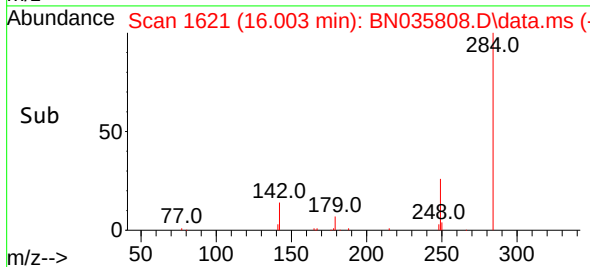
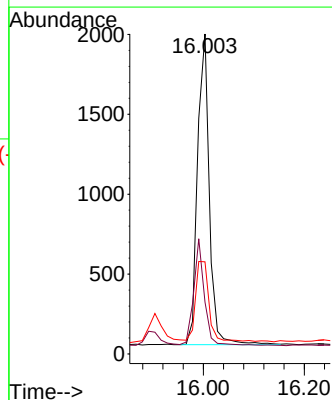
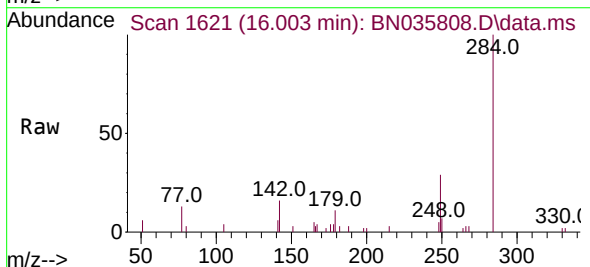
Instrument :
BNA_N
ClientSampleId :
PB165667BS

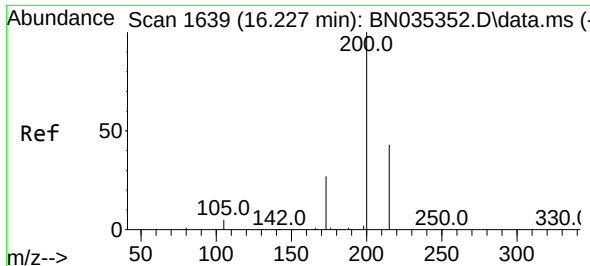
Tgt Ion:248 Resp: 2229
Ion Ratio Lower Upper
248 100
250 99.8 80.6 120.8
141 56.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:284 Resp: 3165
Ion Ratio Lower Upper
284 100
142 31.6 26.7 40.1
249 30.2 24.6 36.8

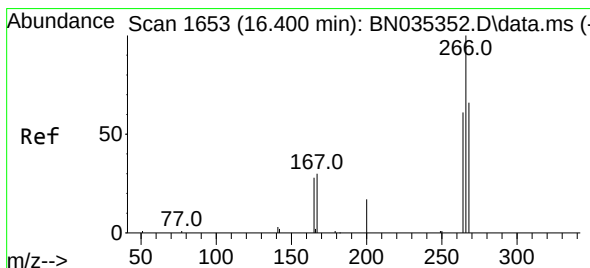
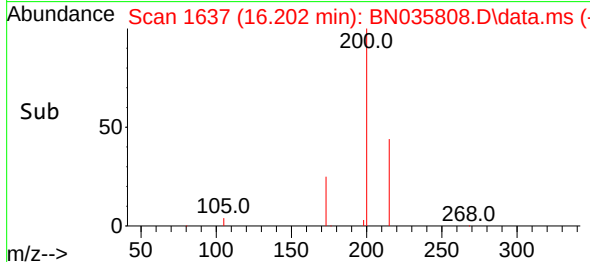
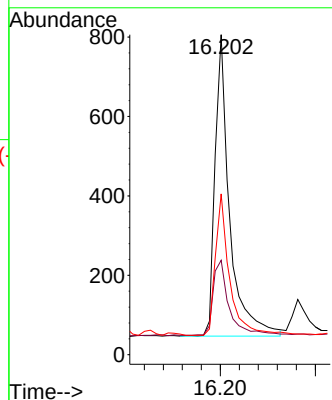
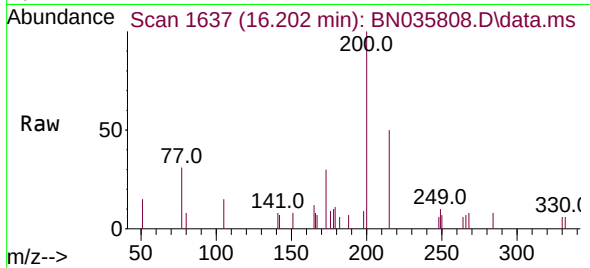




#23
 Atrazine
 Concen: 0.356 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035808.D
 Acq: 24 Dec 2024 06:34

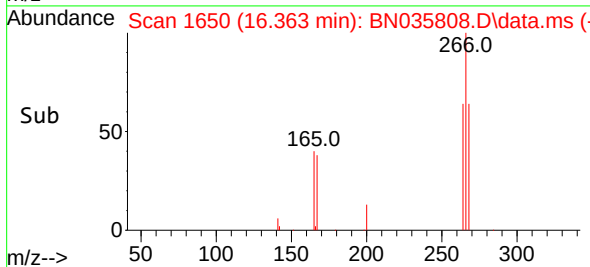
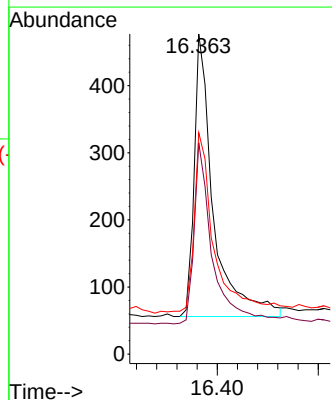
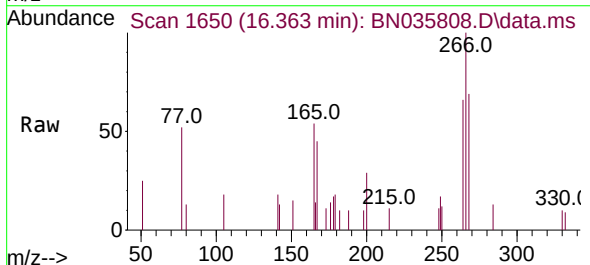
Instrument :
 BNA_N
 ClientSampleId :
 PB165667BS

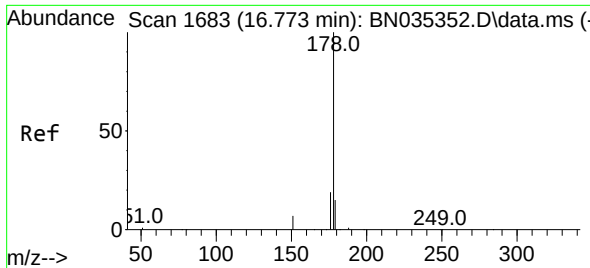
Tgt Ion:200 Resp: 1619
 Ion Ratio Lower Upper
 200 100
 173 29.5 24.1 36.1
 215 50.2 36.9 55.3



#24
 Pentachlorophenol
 Concen: 0.341 ng
 RT: 16.363 min Scan# 1650
 Delta R.T. -0.013 min
 Lab File: BN035808.D
 Acq: 24 Dec 2024 06:34

Tgt Ion:266 Resp: 1112
 Ion Ratio Lower Upper
 266 100
 264 62.4 42.3 63.5
 268 68.0 43.3 64.9#

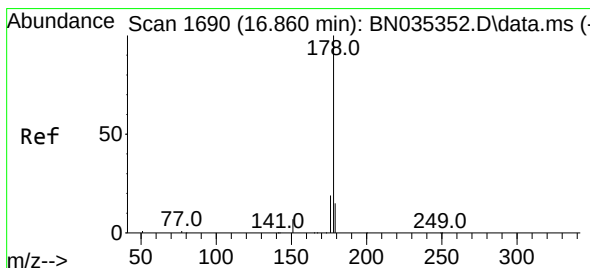
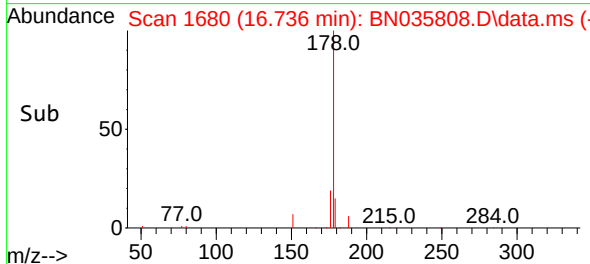
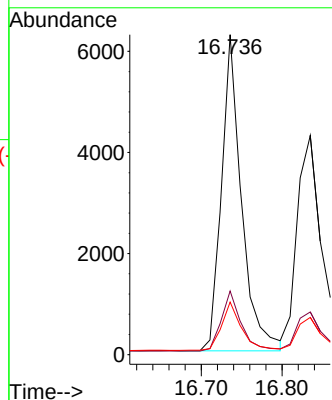
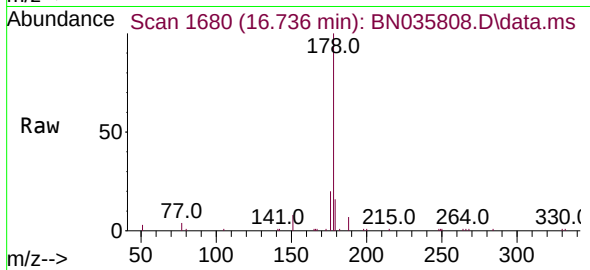




#25
Phenanthrene
Concen: 0.360 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

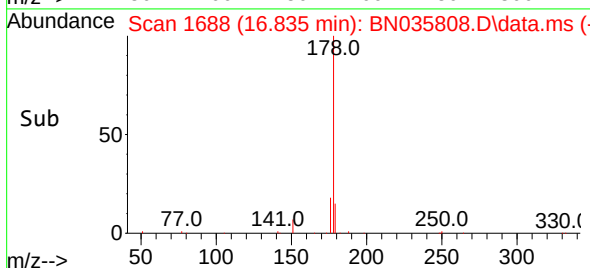
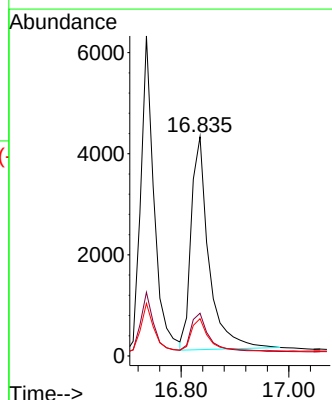
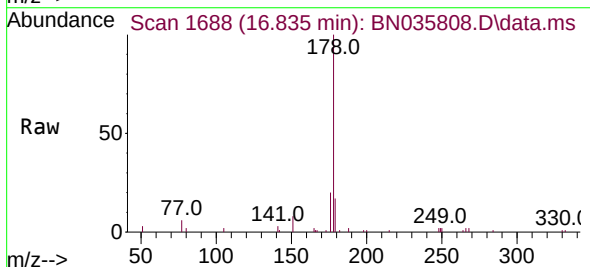
Instrument :
BNA_N
ClientSampleId :
PB165667BS

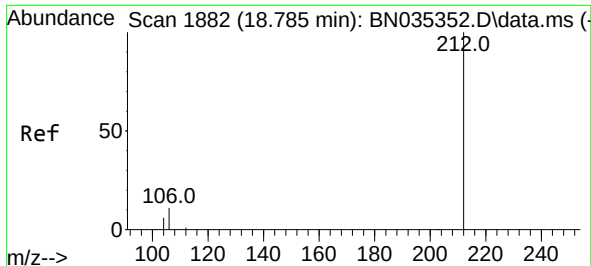
Tgt Ion:178 Resp: 10790
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.355 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:178 Resp: 9628
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.4 12.6 18.8

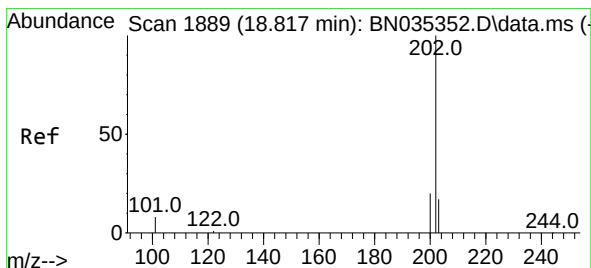
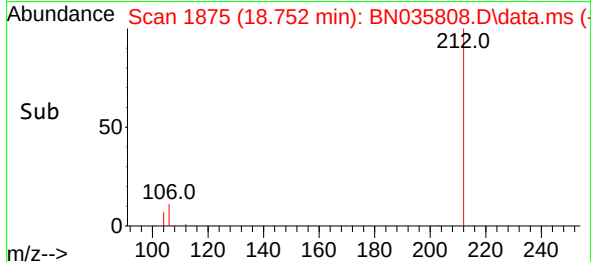
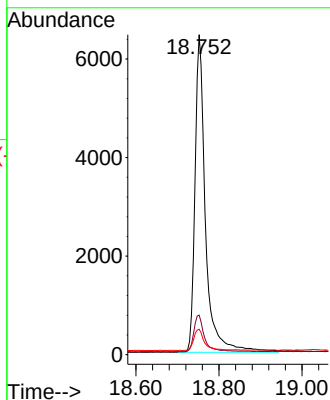
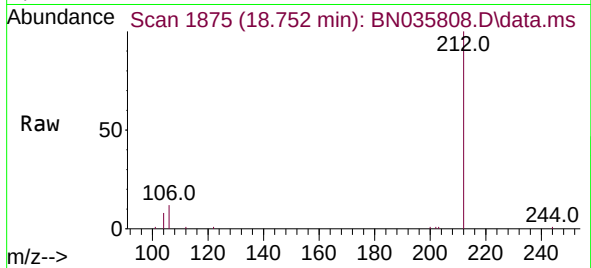




#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 18.752 min Scan# 1882
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

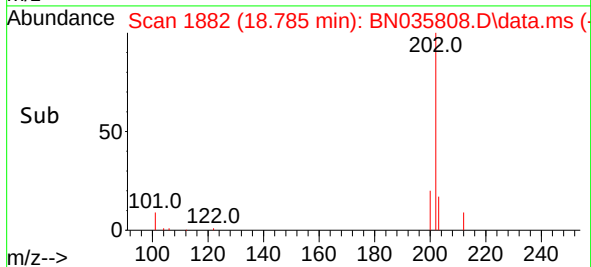
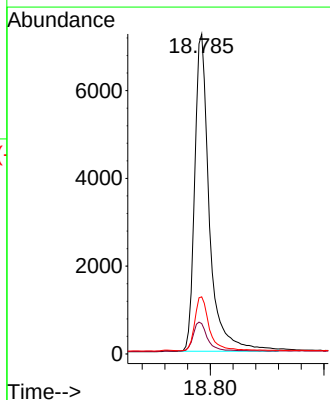
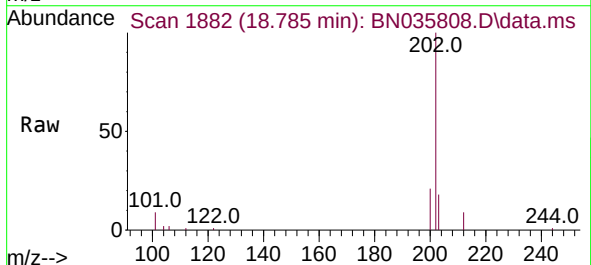
Instrument :
BNA_N
ClientSampleId :
PB165667BS

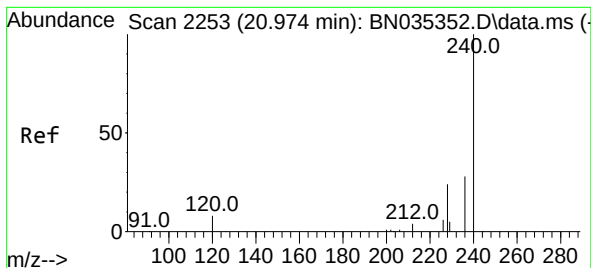
Tgt Ion:212 Resp: 11348
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#28
Fluoranthene
Concen: 0.320 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 12957
Ion Ratio Lower Upper
202 100
101 9.3 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS

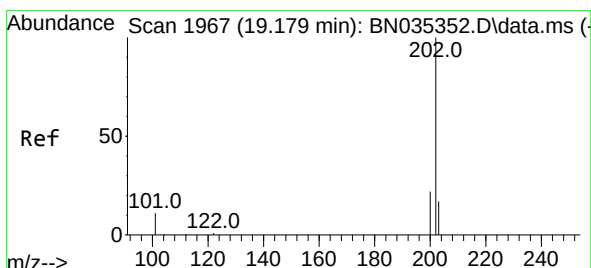
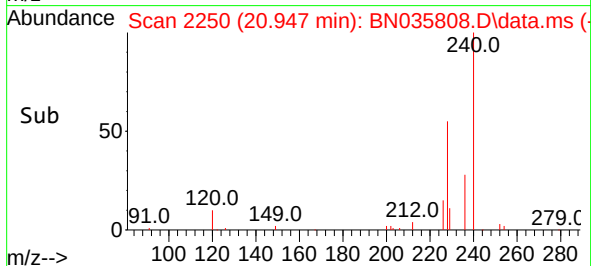
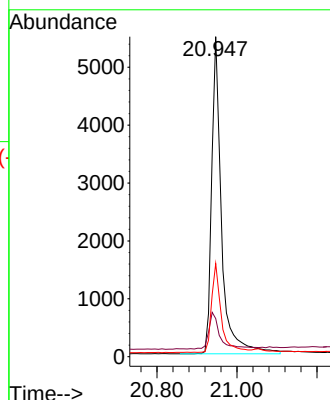
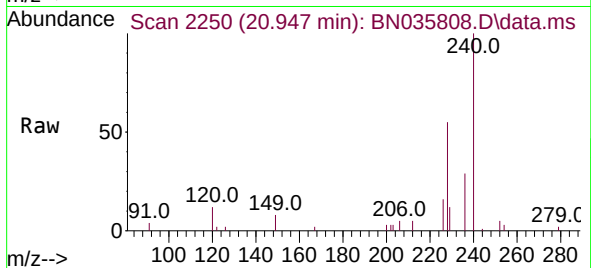
Tgt Ion:240 Resp: 9467

Ion Ratio Lower Upper

240 100

120 11.9 7.9 11.9#

236 29.1 22.9 34.3



#30

Pyrene

Concen: 0.390 ng

RT: 19.152 min Scan# 1961

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

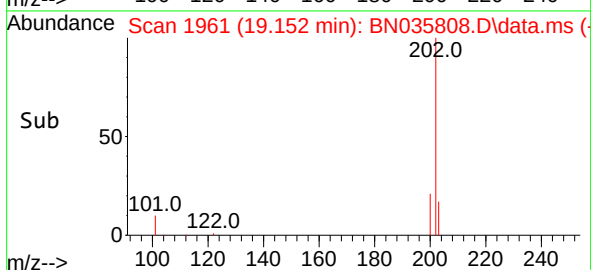
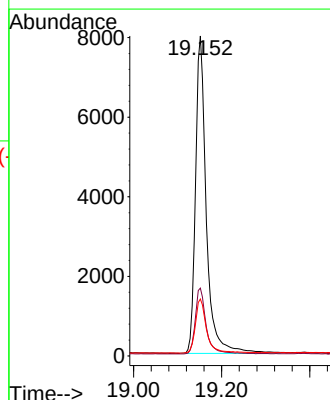
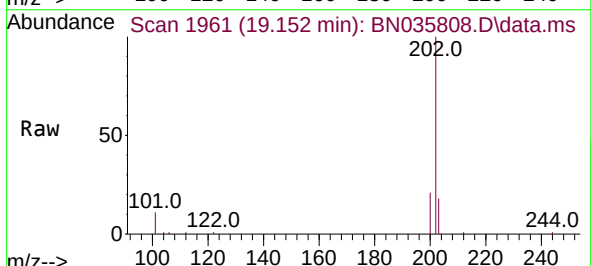
Tgt Ion:202 Resp: 13632

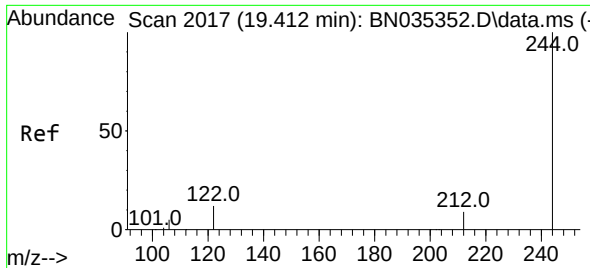
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 17.6 14.3 21.5

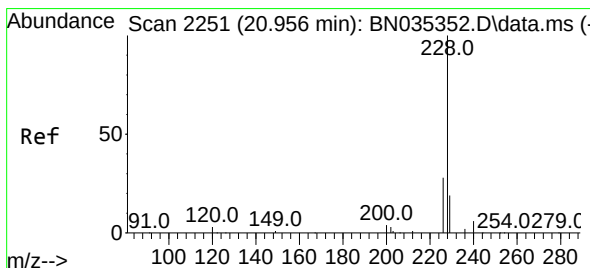
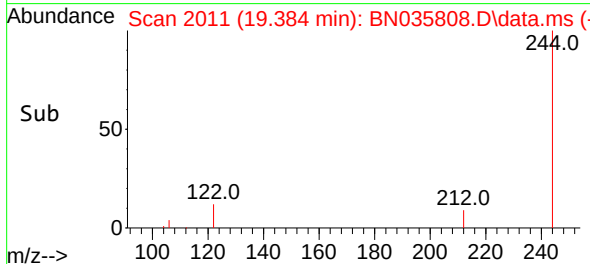
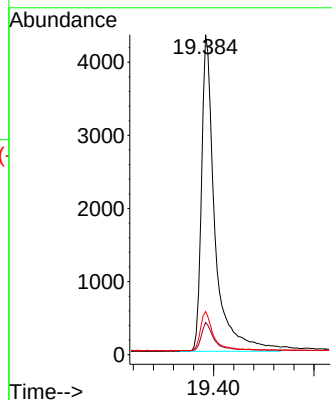
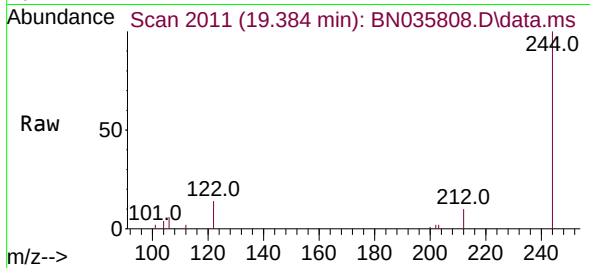




#31
 Terphenyl-d14
 Concen: 0.431 ng
 RT: 19.384 min Scan# 20
 Delta R.T. -0.005 min
 Lab File: BN035808.D
 Acq: 24 Dec 2024 06:34

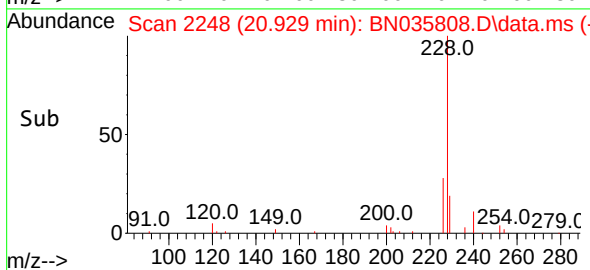
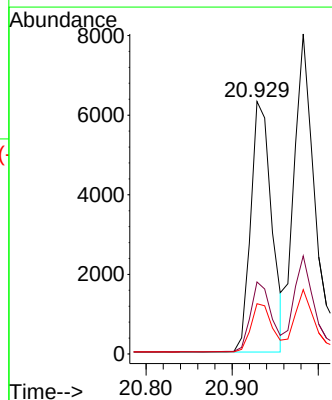
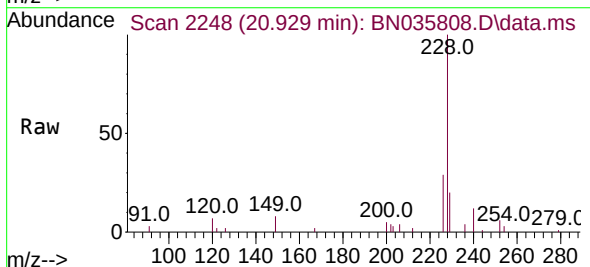
Instrument :
 BNA_N
 ClientSampleId :
 PB165667BS

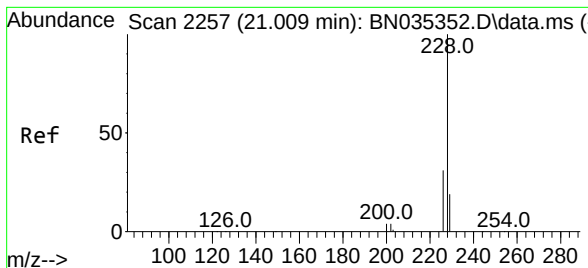
Tgt Ion:244 Resp: 8056
 Ion Ratio Lower Upper
 244 100
 212 10.1 8.1 12.1
 122 13.5 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.321 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035808.D
 Acq: 24 Dec 2024 06:34

Tgt Ion:228 Resp: 10627
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.5 33.7
 229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.415 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA_N

ClientSampleId :

PB165667BS

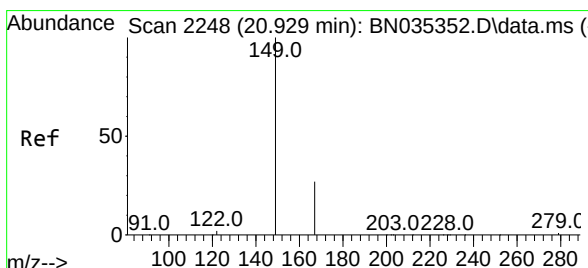
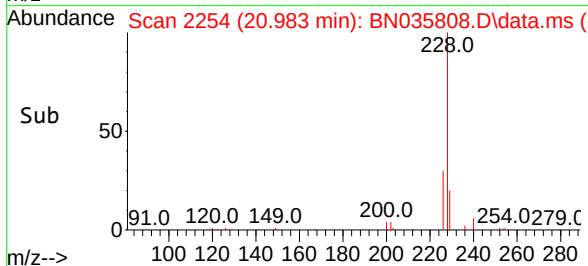
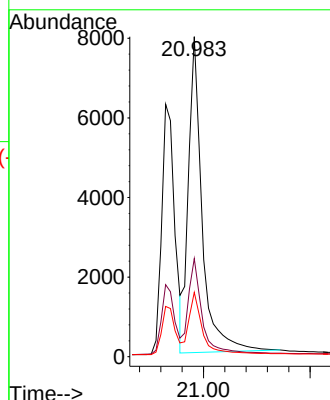
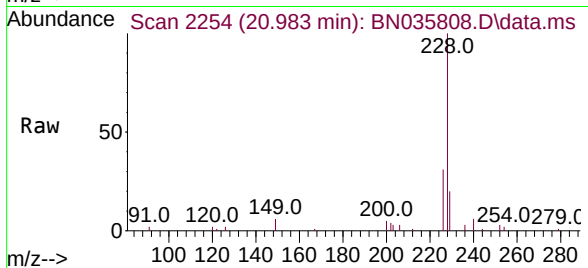
Tgt Ion:228 Resp: 14185

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.355 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

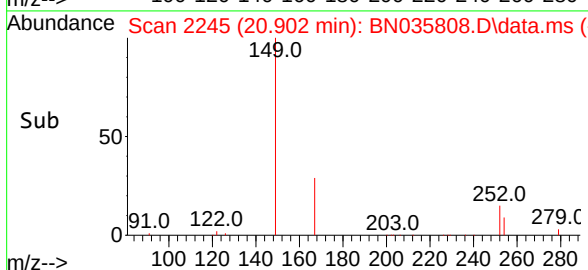
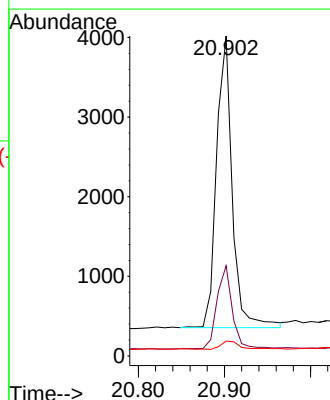
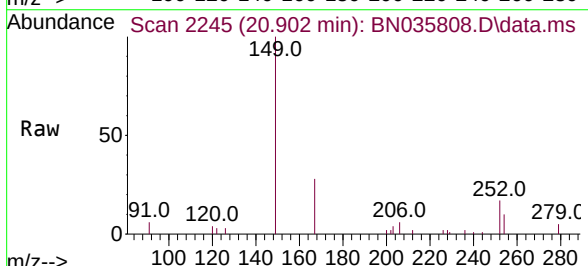
Tgt Ion:149 Resp: 4640

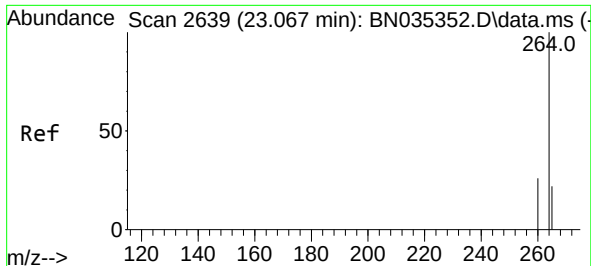
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

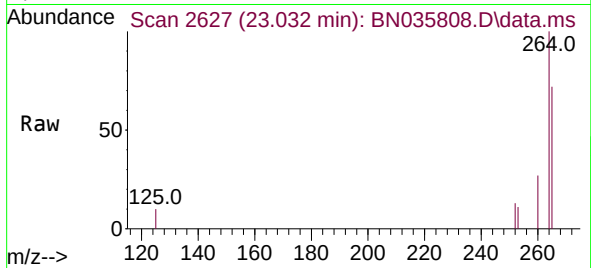
279 3.2 2.7 4.1



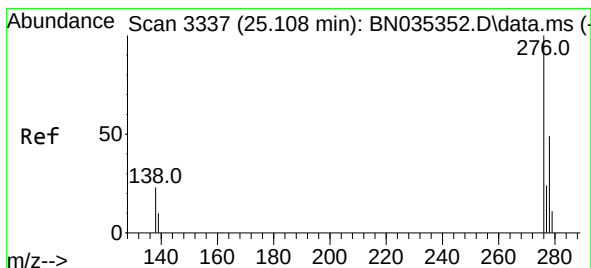
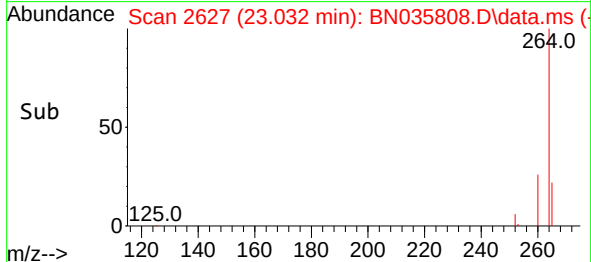
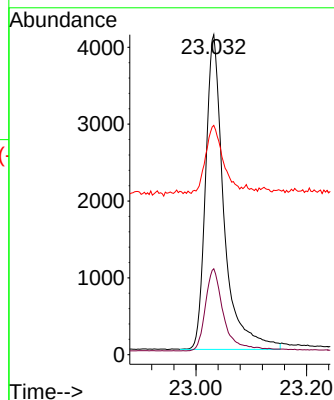


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

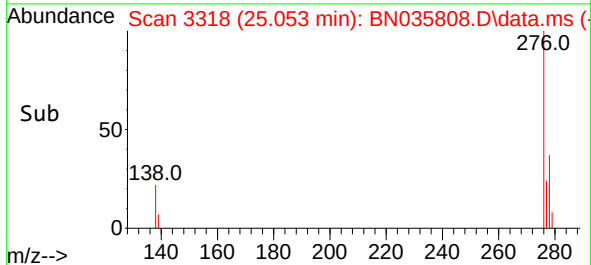
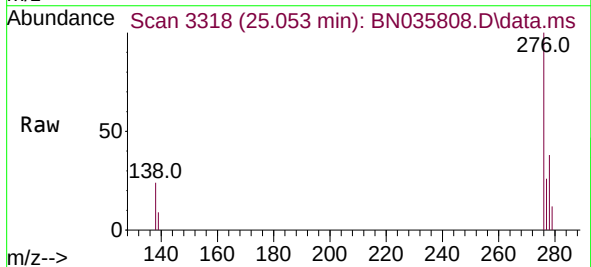
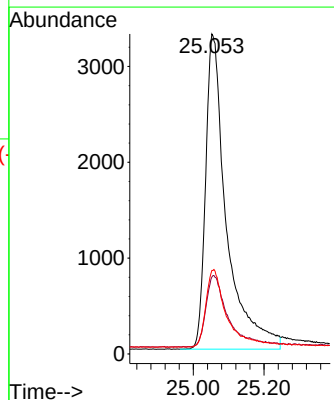


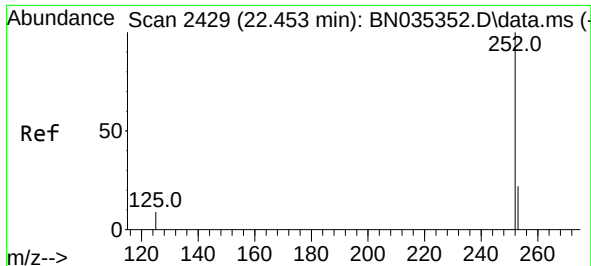
Tgt Ion:264 Resp: 9435
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 71.7 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.053 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

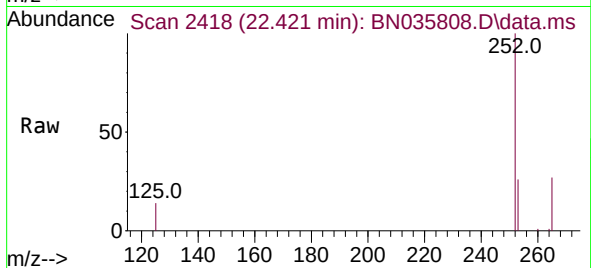
Tgt Ion:276 Resp: 13497
Ion Ratio Lower Upper
276 100
138 22.1 19.4 29.0
277 24.4 19.8 29.6



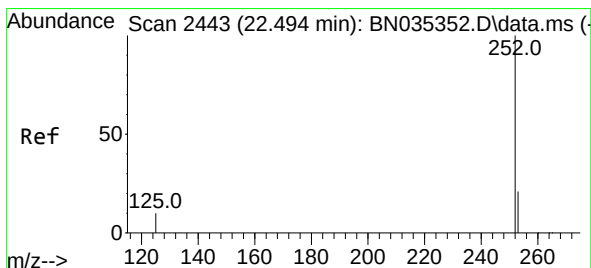
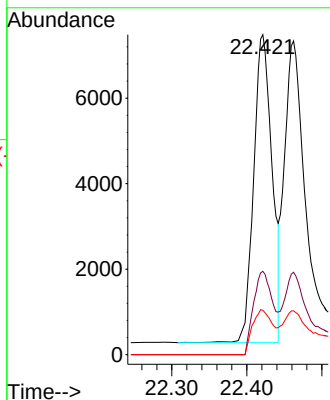


#37
Benzo(b)fluoranthene
Concen: 0.657 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS

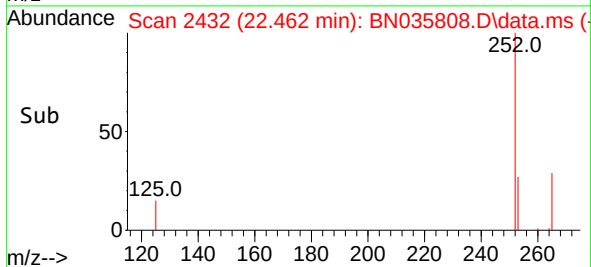
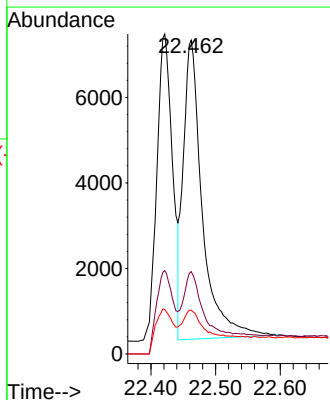
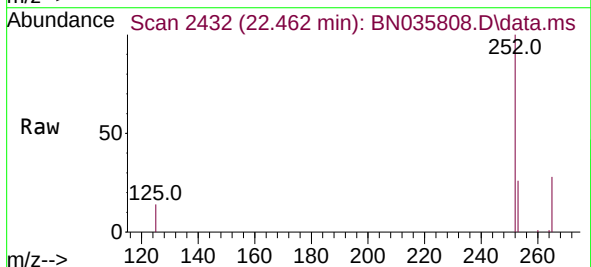


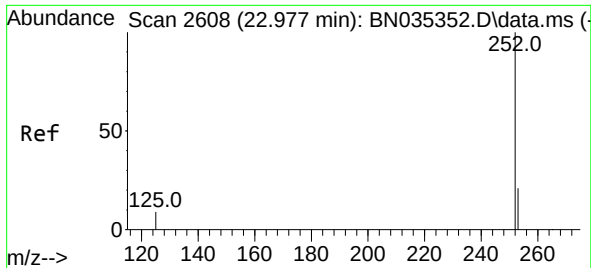
Tgt Ion:252 Resp: 22672
Ion Ratio Lower Upper
252 100
253 26.1 19.6 29.4
125 13.9 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Tgt Ion:252 Resp: 14330
Ion Ratio Lower Upper
252 100
253 26.2 19.5 29.3
125 14.0 10.2 15.4

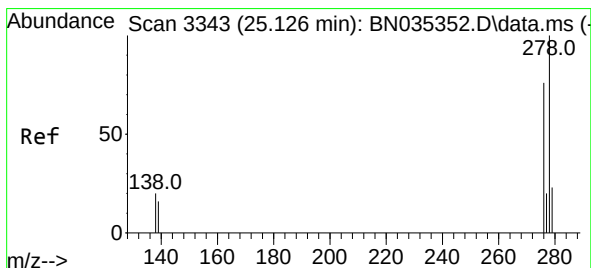
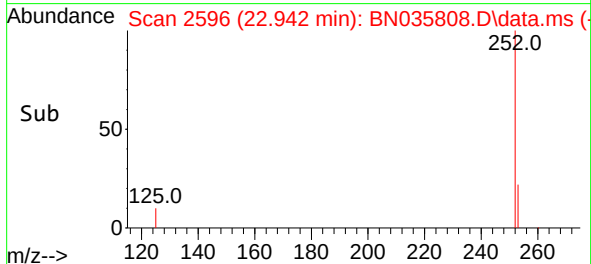
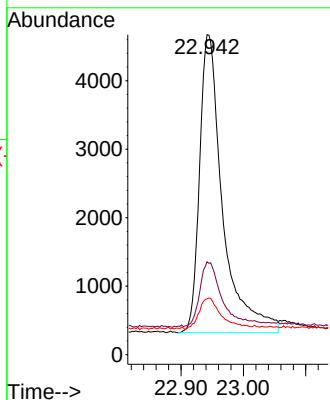
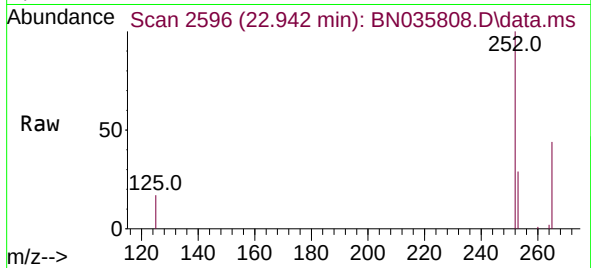




#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 22.942 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

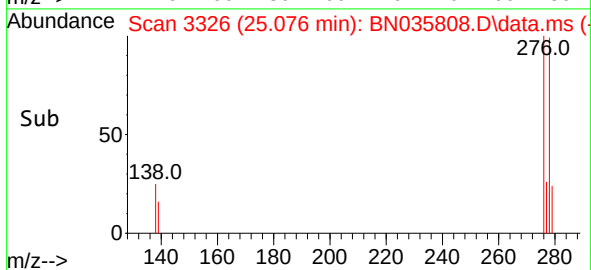
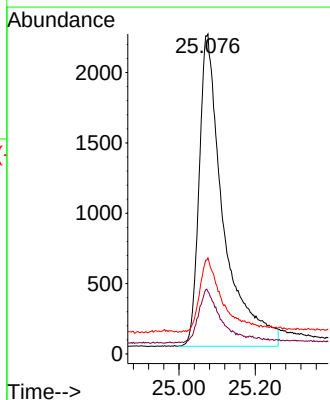
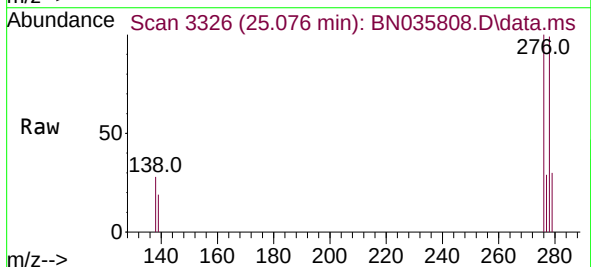
Instrument :
BNA_N
ClientSampleId :
PB165667BS

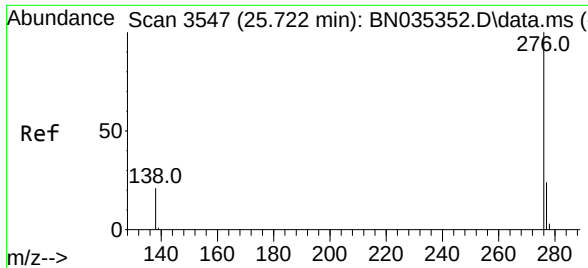
Tgt Ion:252 Resp: 11221
Ion Ratio Lower Upper
252 100
253 29.1 20.2 30.4
125 17.5 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.336 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

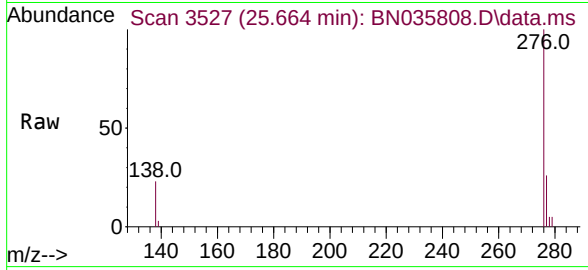
Tgt Ion:278 Resp: 9782
Ion Ratio Lower Upper
278 100
139 19.5 14.2 21.4
279 30.0 20.5 30.7



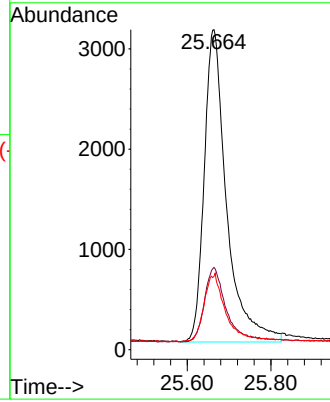
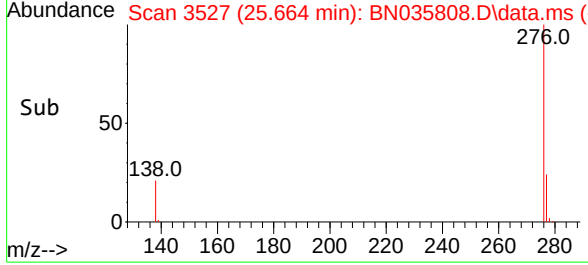


#41
Benzo(g,h,i)perylene
Concen: 0.380 ng
RT: 25.664 min Scan# 31
Delta R.T. -0.015 min
Lab File: BN035808.D
Acq: 24 Dec 2024 06:34

Instrument :
BNA_N
ClientSampleId :
PB165667BS



Tgt Ion:	276	Resp:	11572
Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	22.9	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035809.D
 Acq On : 24 Dec 2024 07:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 24 07:43:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

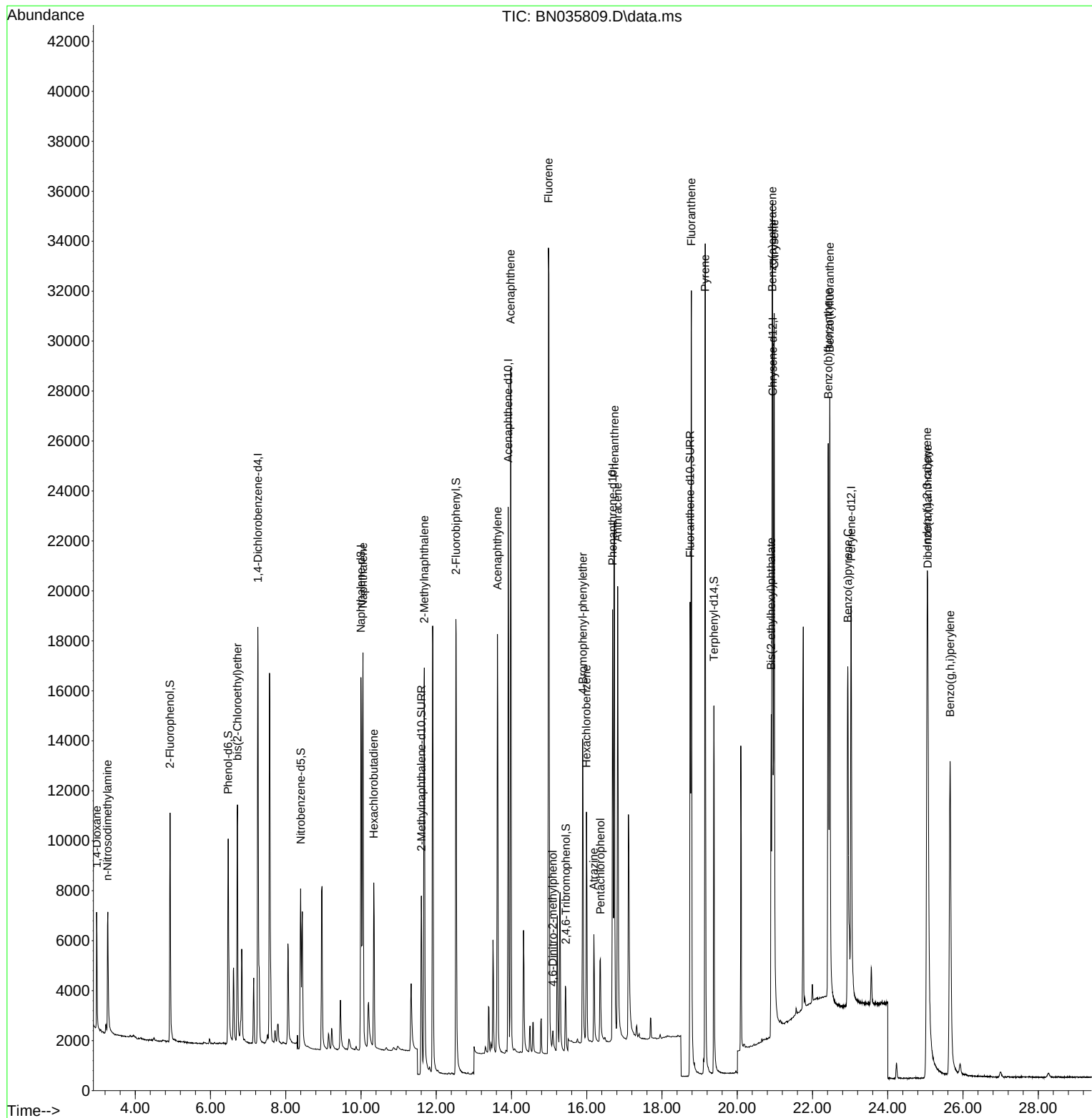
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	8362	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	20753	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	12456	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	24922	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	20198	0.400	ng	0.00
35) Perylene-d12	23.026	264	21431	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	7909	0.378	ng	-0.01
5) Phenol-d6	6.470	99	9085	0.361	ng	-0.02
8) Nitrobenzene-d5	8.397	82	6477	0.511	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	11679	0.360	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	2792	0.316	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	19125	0.406	ng	-0.02
27) Fluoranthene-d10	18.747	212	23606	0.334	ng	-0.01
31) Terphenyl-d14	19.379	244	16501	0.414	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	3198	0.400	ng	100
3) n-Nitrosodimethylamine	3.263	42	2673	0.401	ng	# 88
6) bis(2-Chloroethyl)ether	6.716	93	7863	0.372	ng	99
9) Naphthalene	10.052	128	21064	0.385	ng	98
10) Hexachlorobutadiene	10.340	225	5424	0.430	ng	# 100
12) 2-Methylnaphthalene	11.682	142	13794	0.352	ng	98
16) Acenaphthylene	13.625	152	19447	0.372	ng	99
17) Acenaphthene	13.978	154	13250	0.382	ng	99
18) Fluorene	14.983	166	17299	0.348	ng	99
20) 4,6-Dinitro-2-methylph...	15.101	198	892	0.364	ng	99
21) 4-Bromophenyl-phenylether	15.892	248	5717	0.392	ng	# 72
22) Hexachlorobenzene	15.991	284	7638	0.446	ng	97
23) Atrazine	16.189	200	3955	0.381	ng	99
24) Pentachlorophenol	16.363	266	2368	0.318	ng	# 86
25) Phenanthrene	16.736	178	25787	0.377	ng	100
26) Anthracene	16.822	178	22279	0.360	ng	99
28) Fluoranthene	18.780	202	31096	0.337	ng	100
30) Pyrene	19.147	202	32211	0.432	ng	100
32) Benzo(a)anthracene	20.929	228	25428	0.360	ng	99
33) Chrysene	20.983	228	29722	0.408	ng	98
34) Bis(2-ethylhexyl)phtha...	20.902	149	11220	0.402	ng	99
36) Indeno(1,2,3-cd)pyrene	25.047	276	32558	0.389	ng	100
37) Benzo(b)fluoranthene	22.418	252	43862	0.559	ng	98
38) Benzo(k)fluoranthene	22.459	252	32848	0.426	ng	97
39) Benzo(a)pyrene	22.939	252	23952	0.371	ng	100
40) Dibenzo(a,h)anthracene	25.064	278	24090	0.364	ng	99
41) Benzo(g,h,i)perylene	25.658	276	28353	0.410	ng	99

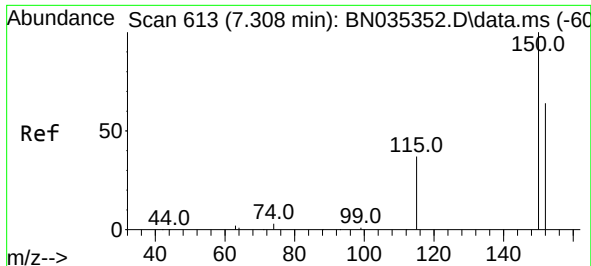
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035809.D
 Acq On : 24 Dec 2024 07:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 24 07:43:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

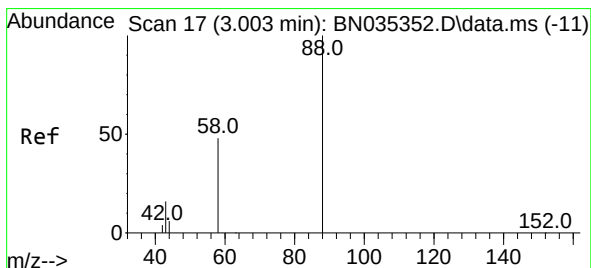
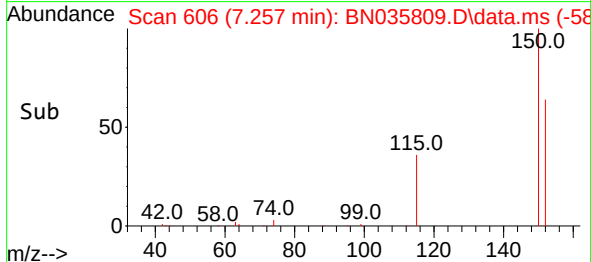
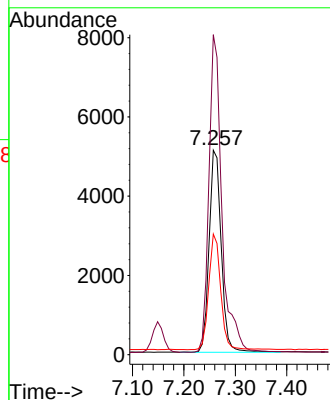
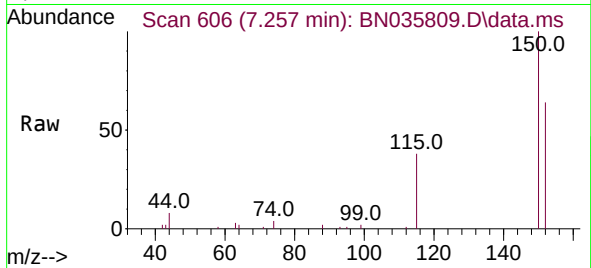




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035809.D
 Acq: 24 Dec 2024 07:09

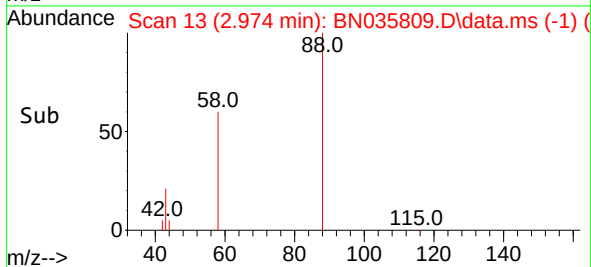
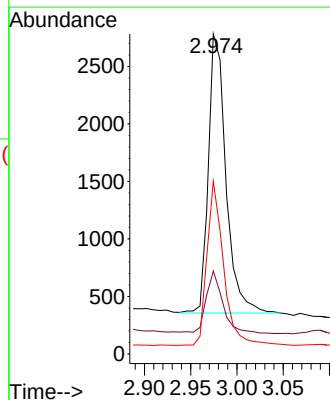
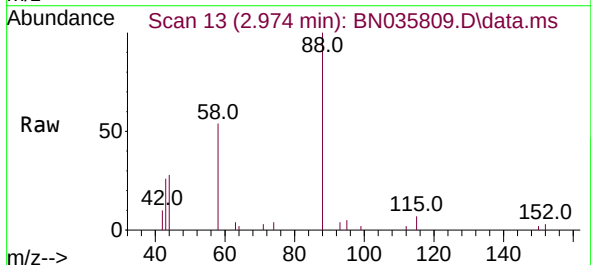
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

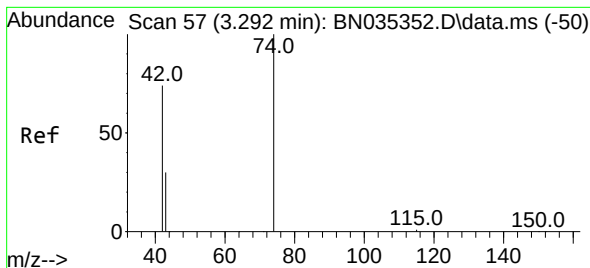
Tgt Ion:152 Resp: 8362
 Ion Ratio Lower Upper
 152 100
 150 156.5 124.0 186.0
 115 59.0 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.400 ng
 RT: 2.974 min Scan# 13
 Delta R.T. -0.007 min
 Lab File: BN035809.D
 Acq: 24 Dec 2024 07:09

Tgt Ion: 88 Resp: 3198
 Ion Ratio Lower Upper
 88 100
 43 21.6 17.2 25.8
 58 55.7 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.401 ng

RT: 3.263 min Scan# 51

Delta R.T. -0.015 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

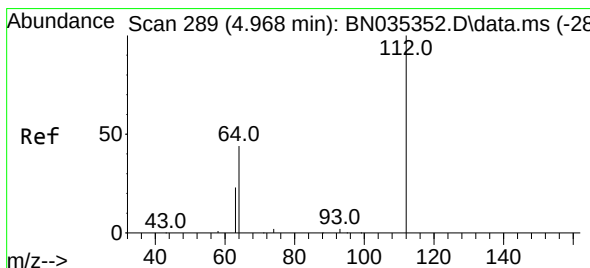
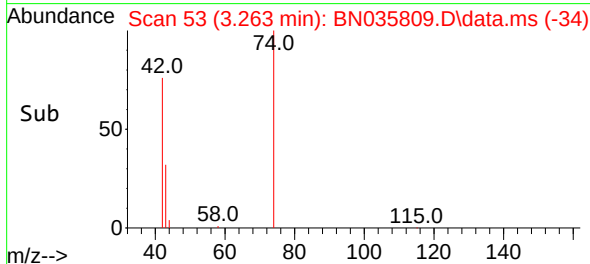
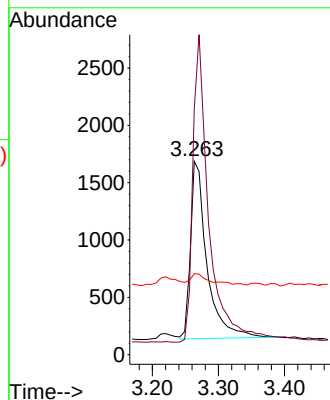
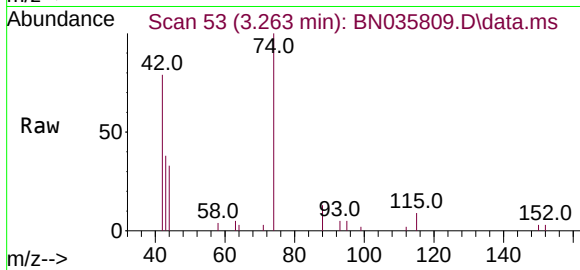
Tgt Ion: 42 Resp: 2673

Ion Ratio Lower Upper

42 100

74 172.2 124.9 187.3

44 9.1 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.378 ng

RT: 4.924 min Scan# 283

Delta R.T. -0.015 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

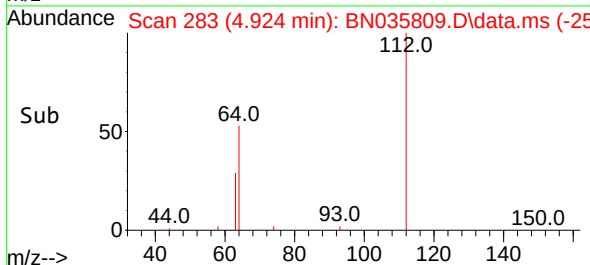
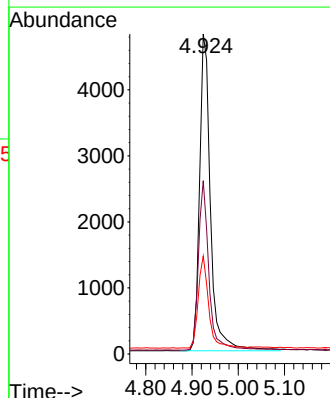
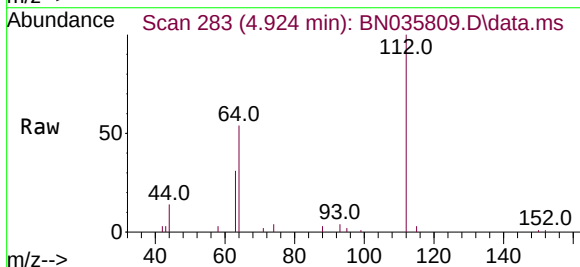
Tgt Ion: 112 Resp: 7909

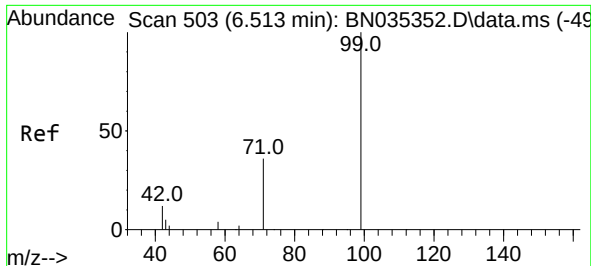
Ion Ratio Lower Upper

112 100

64 51.5 39.8 59.8

63 28.0 21.0 31.6

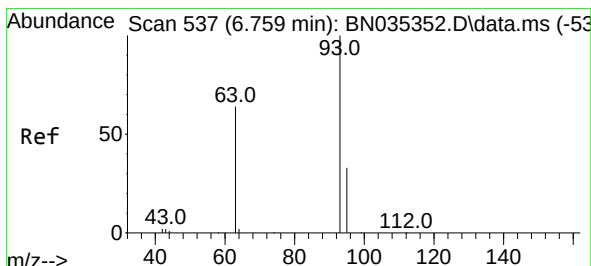
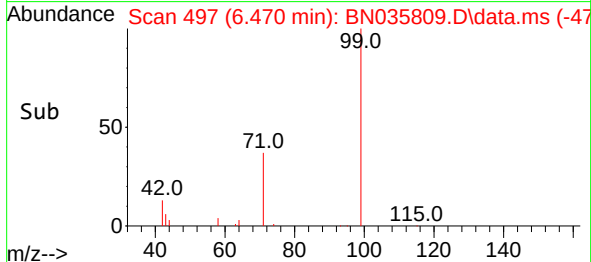
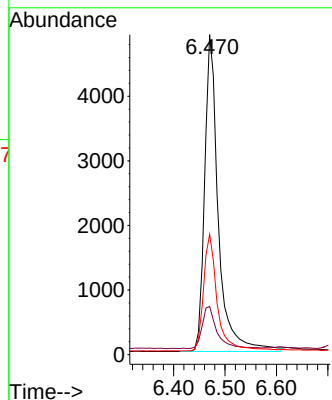
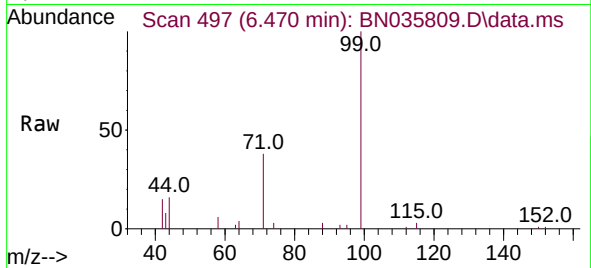




#5
Phenol-d6
Concen: 0.361 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

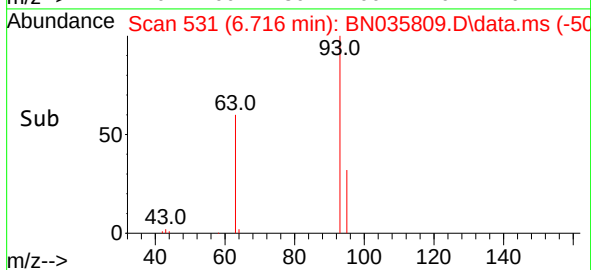
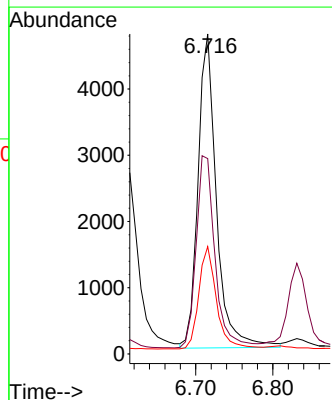
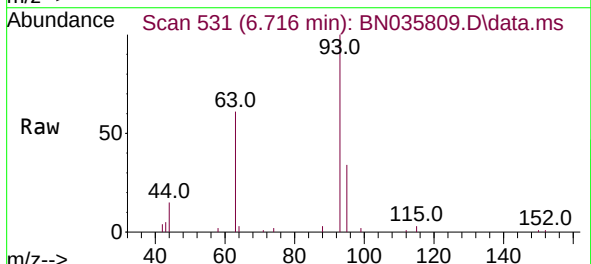
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

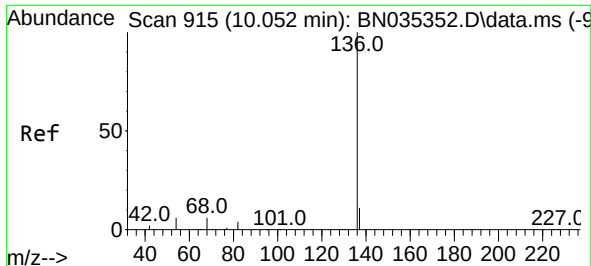
Tgt Ion:	99	Resp:	9085
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	37.3	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.372 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:	93	Resp:	7863
Ion	Ratio	Lower	Upper
93	100		
63	62.7	50.4	75.6
95	31.6	25.7	38.5

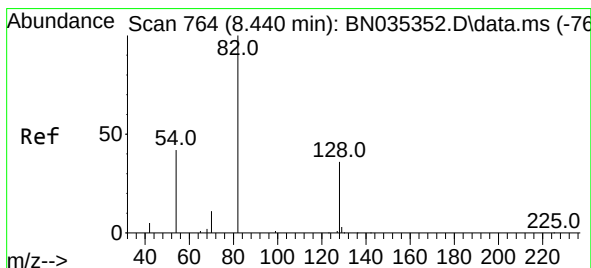
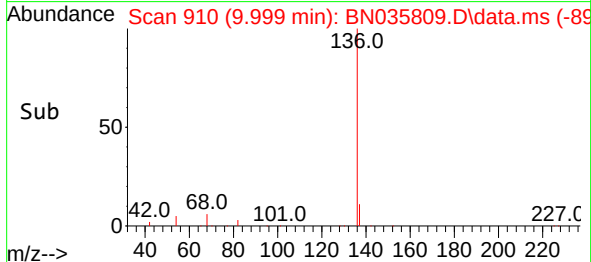
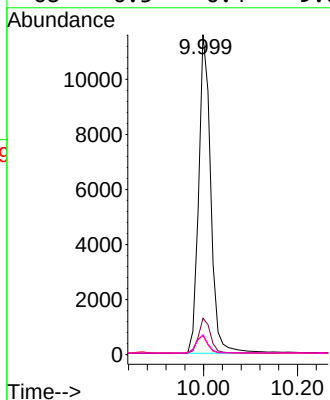
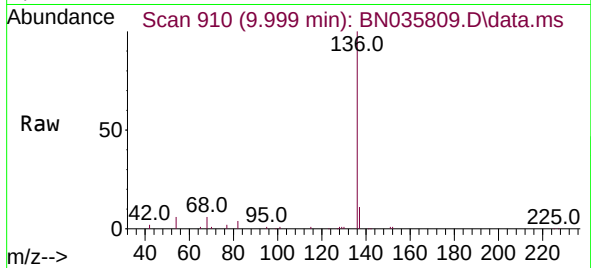




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

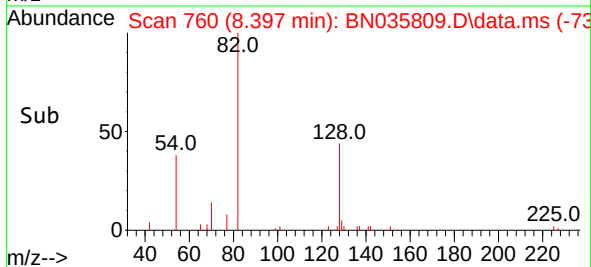
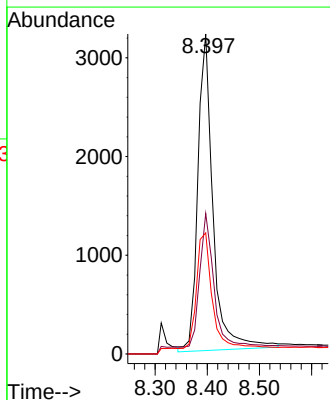
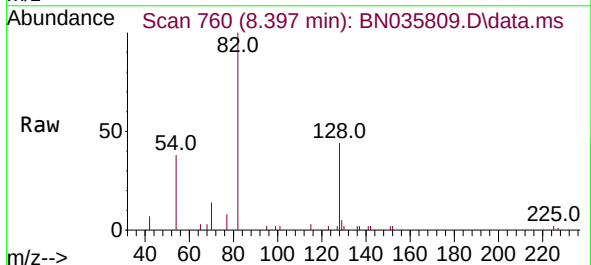
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

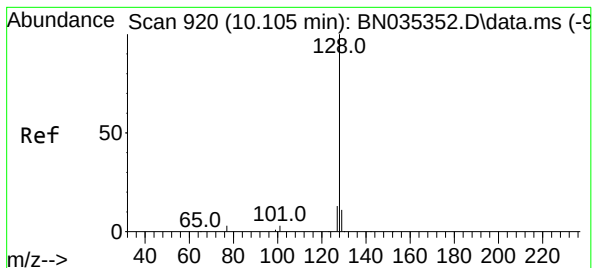
Tgt Ion:	136	Resp:	20753
Ion Ratio	Lower	Upper	
136	100		
137	11.4	10.2	15.2
54	5.9	6.1	9.1#
68	6.3	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.511 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:	82	Resp:	6477
Ion Ratio	Lower	Upper	
82	100		
128	43.9	33.4	50.0
54	37.9	36.7	55.1





#9

Naphthalene

Concen: 0.385 ng

RT: 10.052 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

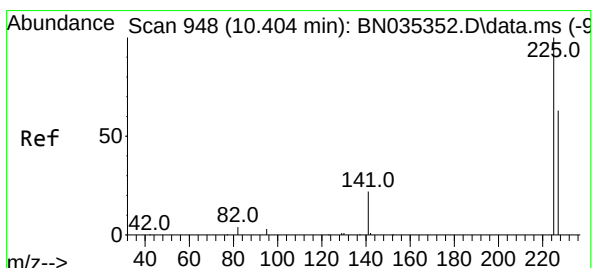
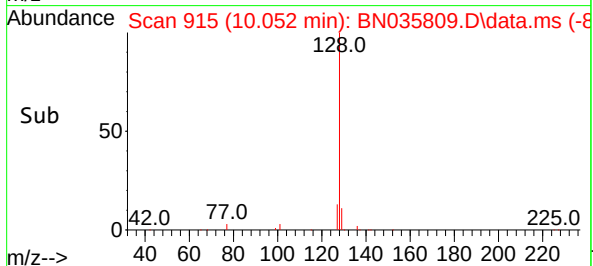
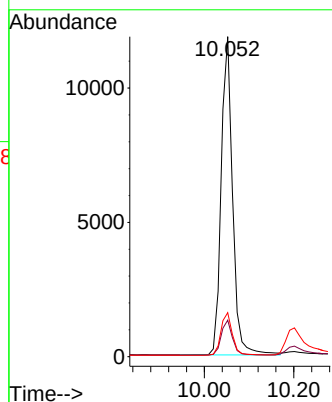
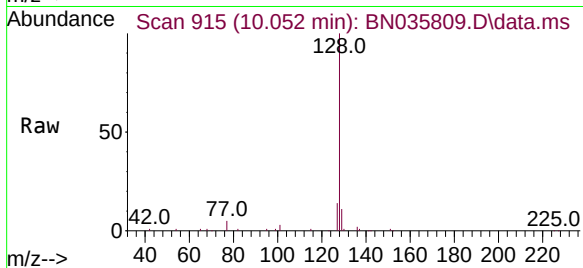
Tgt Ion:128 Resp: 21064

Ion Ratio Lower Upper

128 100

129 11.4 9.8 14.6

127 13.8 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.430 ng

RT: 10.340 min Scan# 942

Delta R.T. -0.021 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

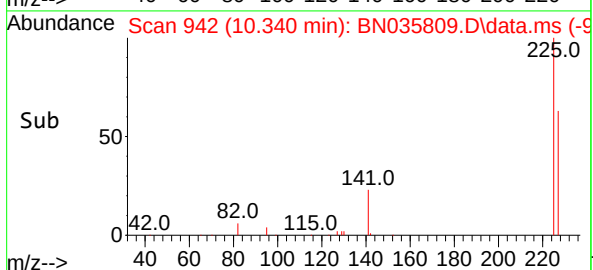
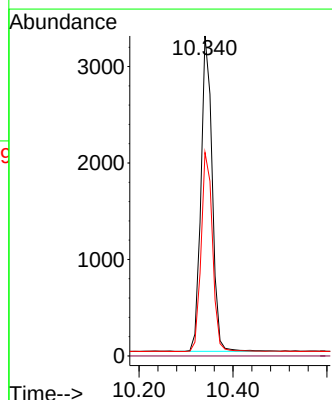
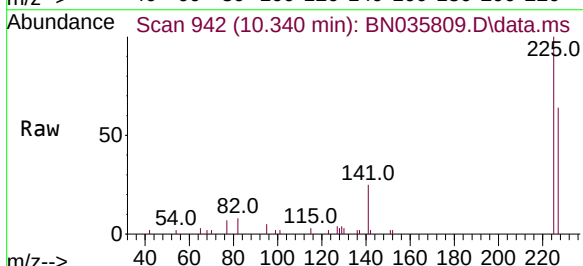
Tgt Ion:225 Resp: 5424

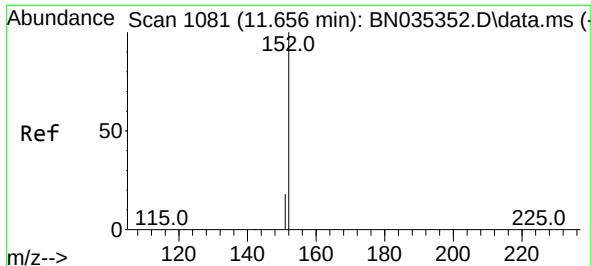
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

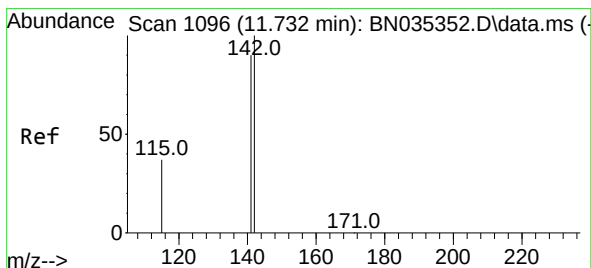
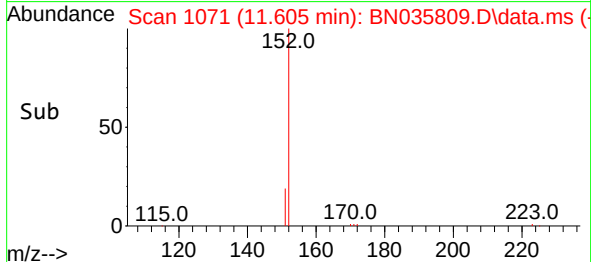
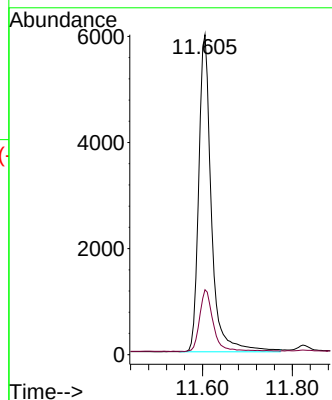
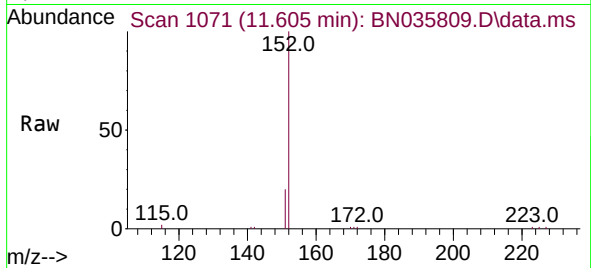




#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

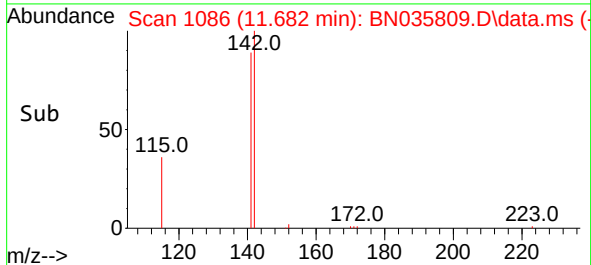
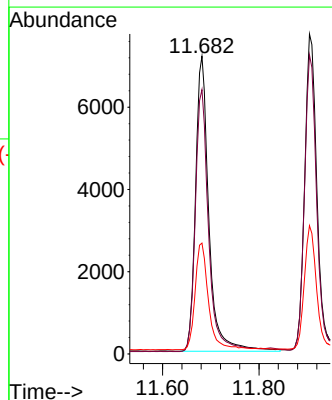
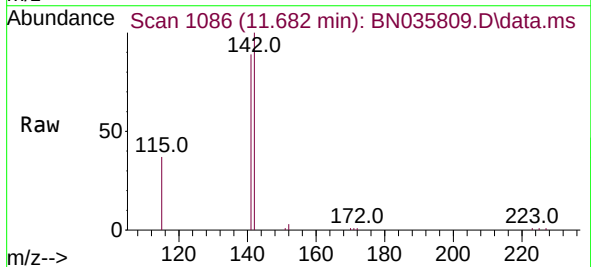
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

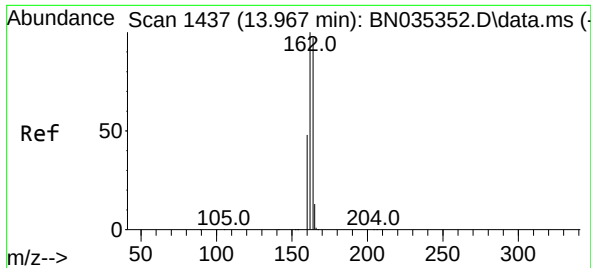
Tgt Ion:152 Resp: 11679
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:142 Resp: 13794
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 37.2 31.4 47.0

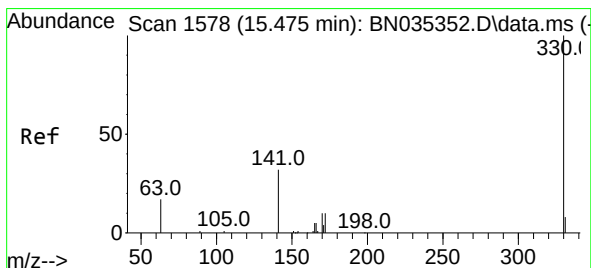
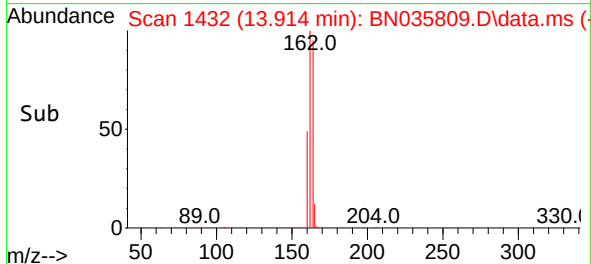
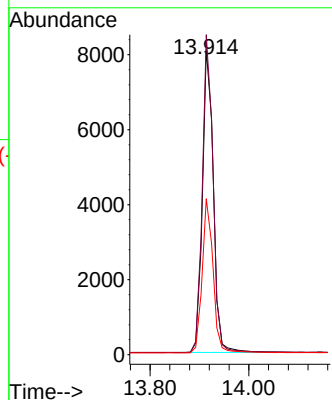
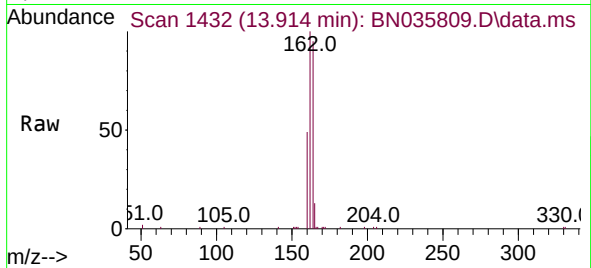




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

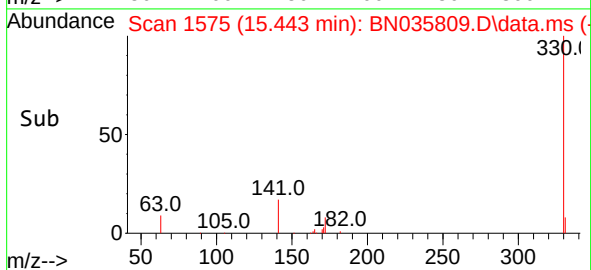
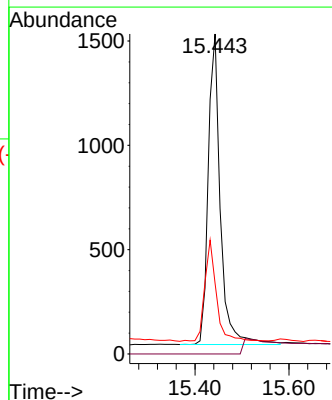
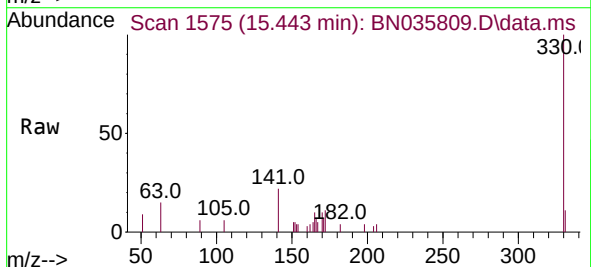
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

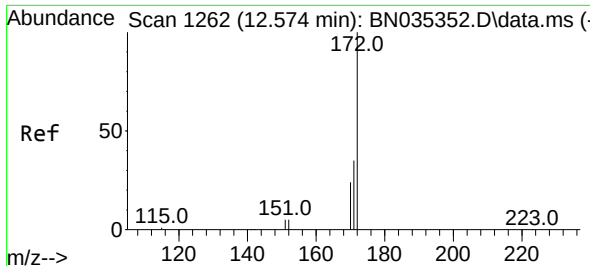
Tgt Ion:164 Resp: 12456
Ion Ratio Lower Upper
164 100
162 104.9 82.2 123.2
160 51.2 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:330 Resp: 2792
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.9 26.6 40.0

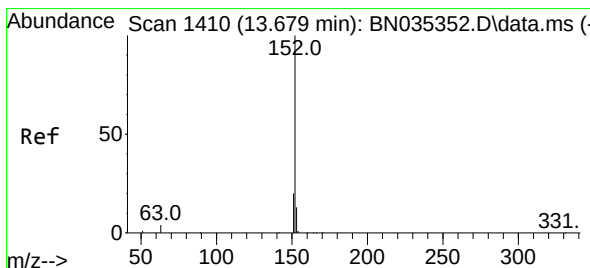
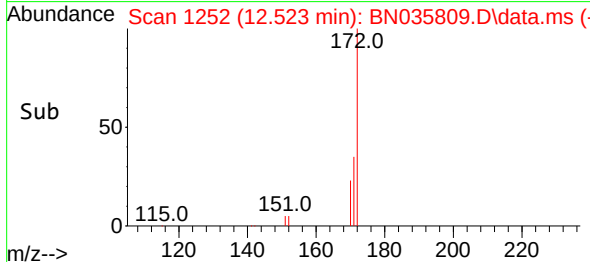
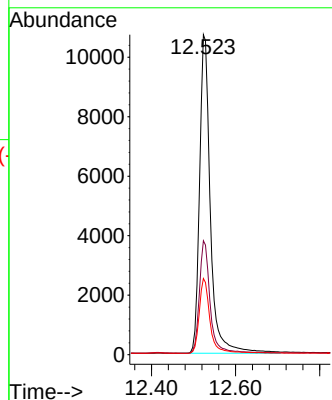
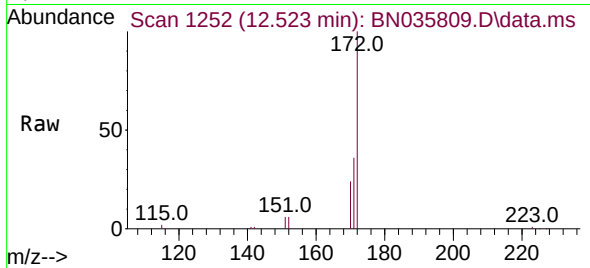




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

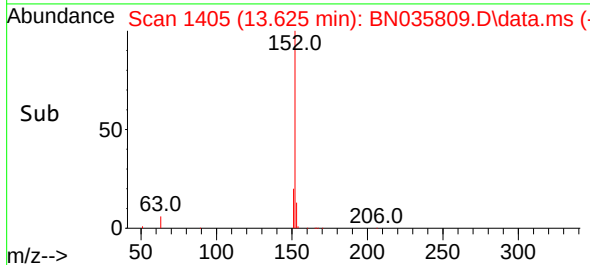
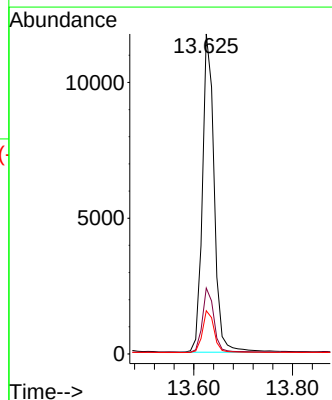
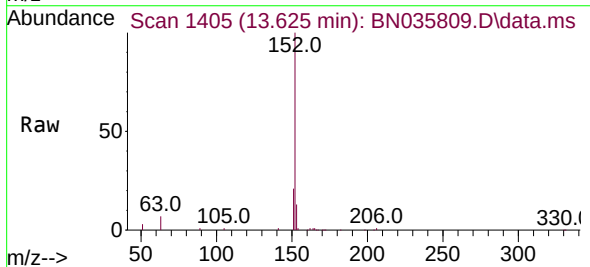
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

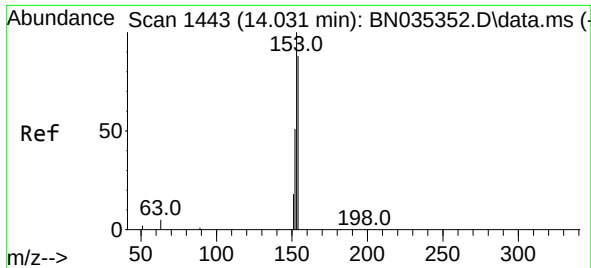
Tgt Ion:172 Resp: 19125
Ion Ratio Lower Upper
172 100
171 35.6 29.0 43.4
170 23.8 19.8 29.8



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:152 Resp: 19447
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.1 10.4 15.6

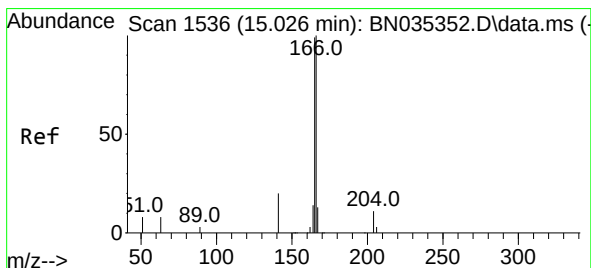
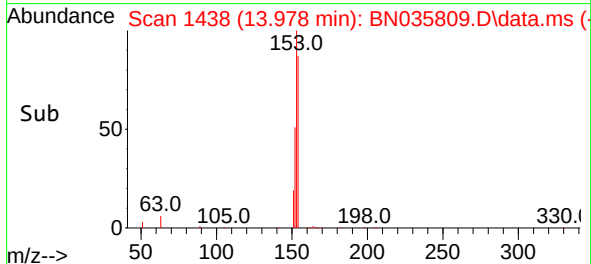
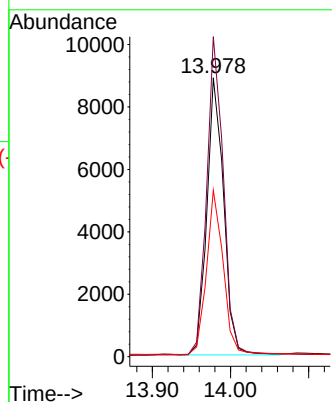
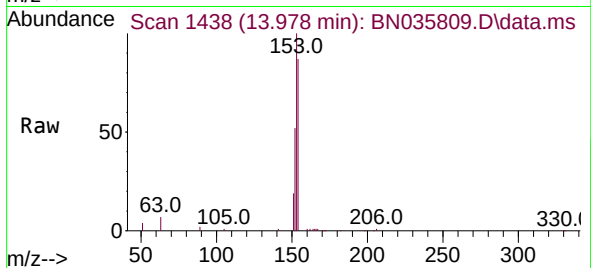




#17
Acenaphthene
Concen: 0.382 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

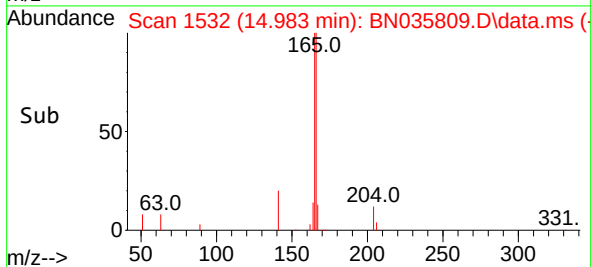
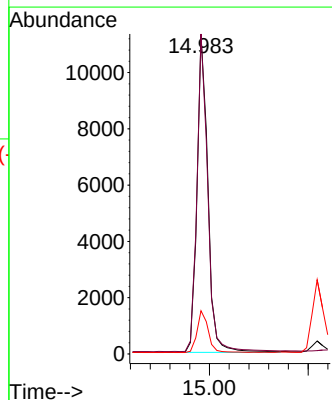
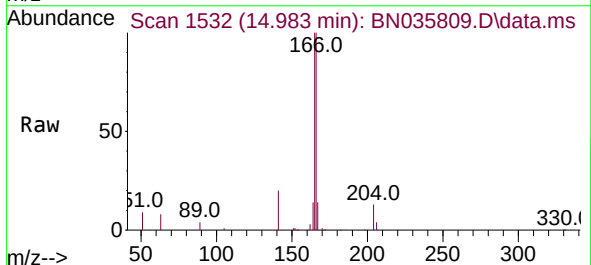
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

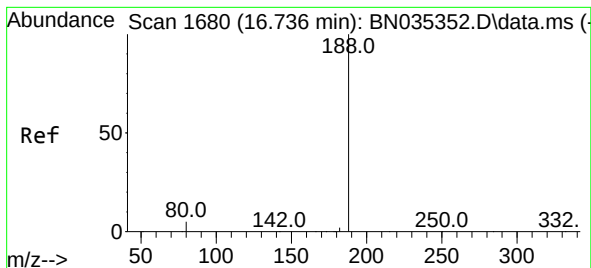
Tgt Ion:154 Resp: 13250
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 59.3 49.0 73.6



#18
Fluorene
Concen: 0.348 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:166 Resp: 17299
Ion Ratio Lower Upper
166 100
165 98.8 79.7 119.5
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

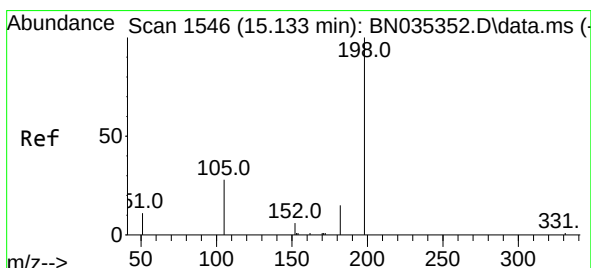
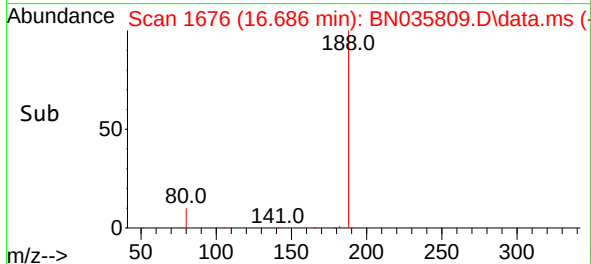
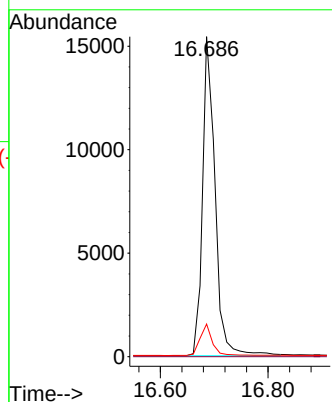
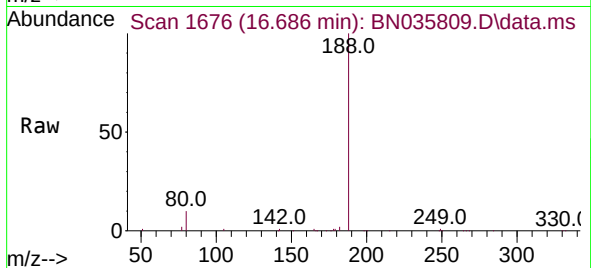
Tgt Ion:188 Resp: 24922

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.101 min Scan# 1543

Delta R.T. -0.021 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

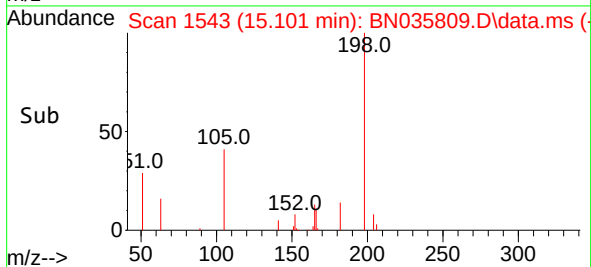
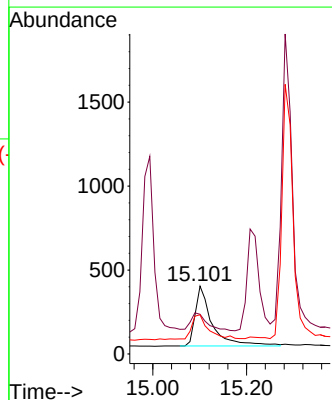
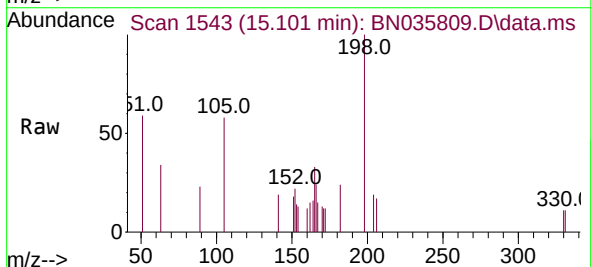
Tgt Ion:198 Resp: 892

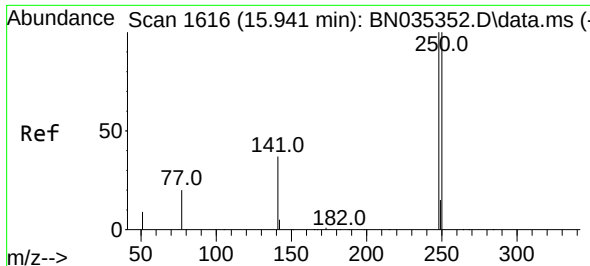
Ion Ratio Lower Upper

198 100

51 58.7 46.5 69.7

105 57.9 45.3 67.9

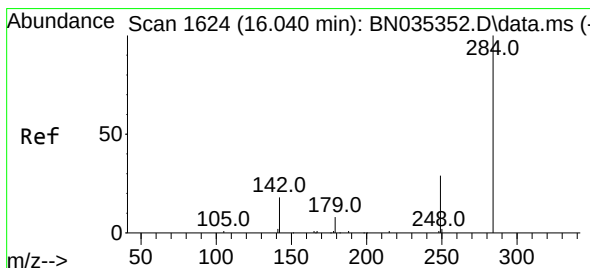
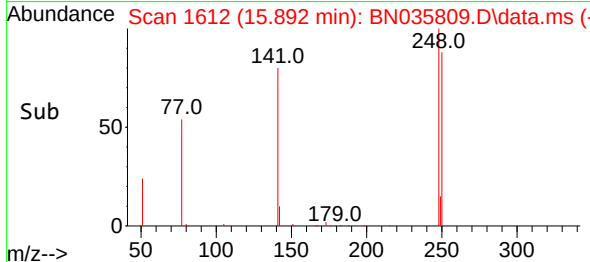
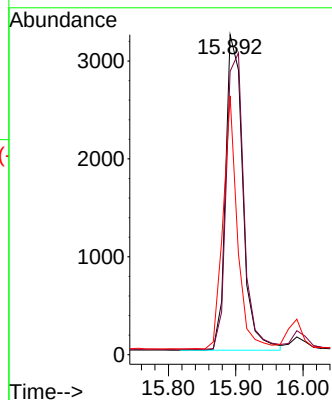
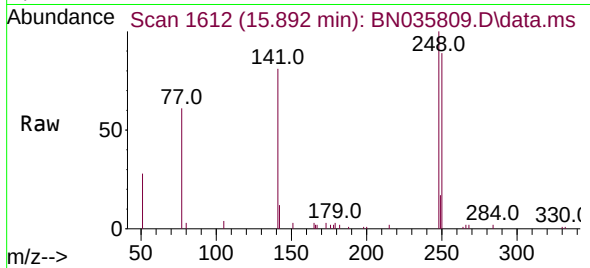




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.892 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

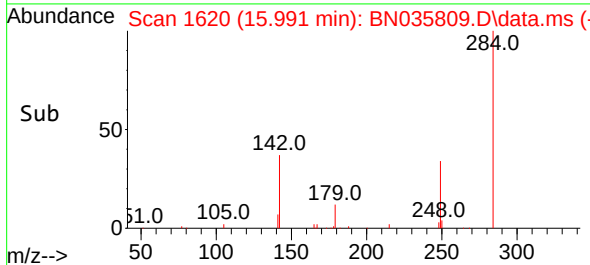
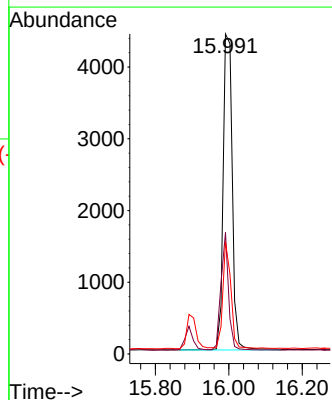
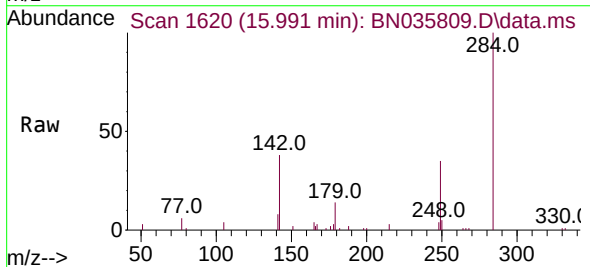
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

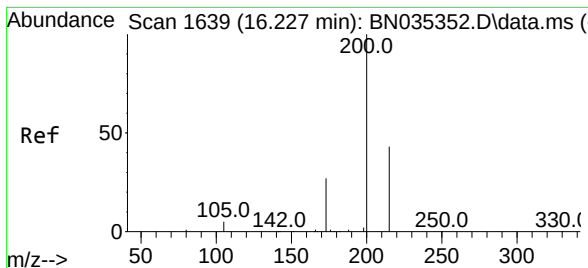
Tgt Ion:248 Resp: 5717
Ion Ratio Lower Upper
248 100
250 88.5 80.6 120.8
141 80.9 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:284 Resp: 7638
Ion Ratio Lower Upper
284 100
142 31.3 26.7 40.1
249 29.6 24.6 36.8





#23

Atrazine

Concen: 0.381 ng

RT: 16.189 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

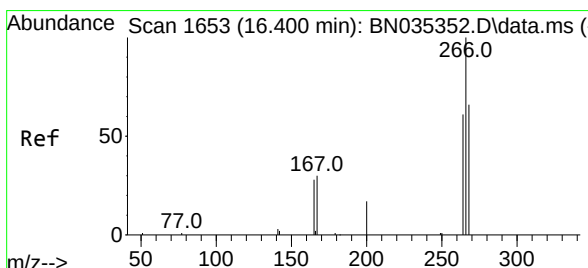
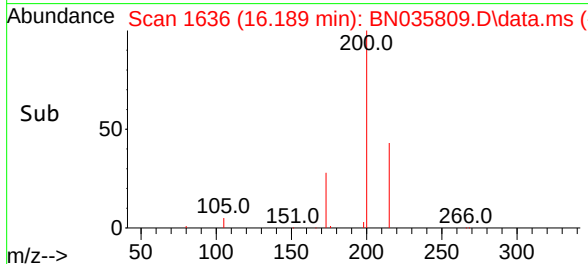
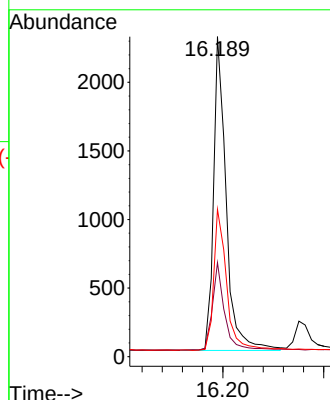
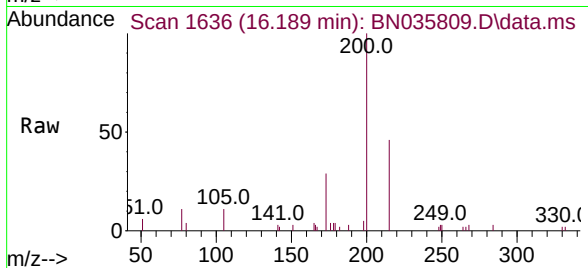
Tgt Ion:200 Resp: 3955

Ion Ratio Lower Upper

200 100

173 29.4 24.1 36.1

215 46.0 36.9 55.3



#24

Pentachlorophenol

Concen: 0.318 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

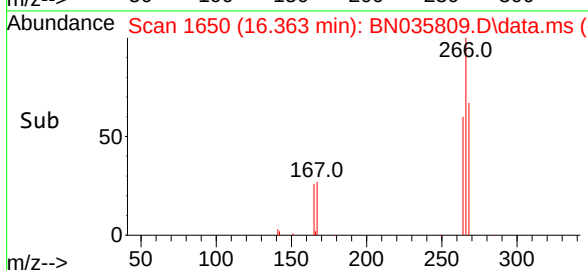
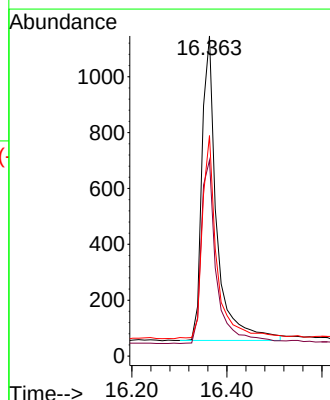
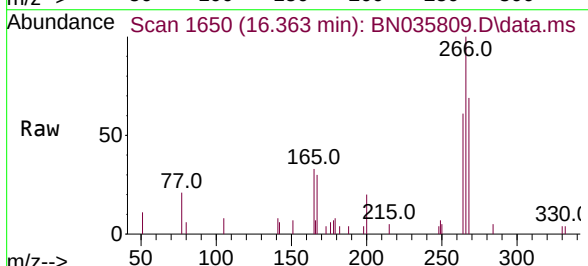
Tgt Ion:266 Resp: 2368

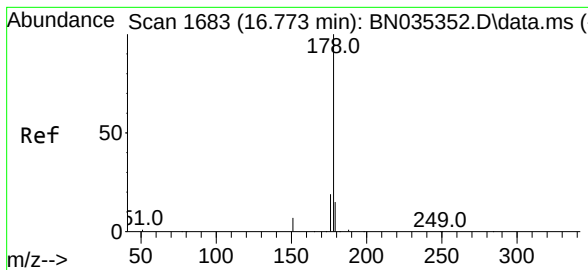
Ion Ratio Lower Upper

266 100

264 62.2 42.3 63.5

268 65.5 43.3 64.9#





#25

Phenanthrene

Concen: 0.377 ng

RT: 16.736 min Scan# 1680

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

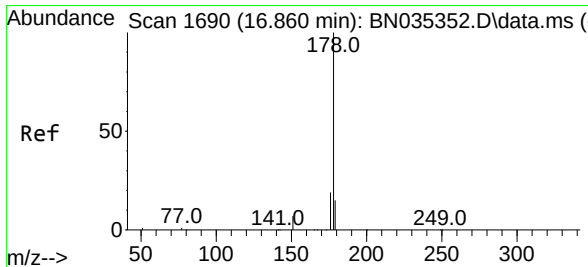
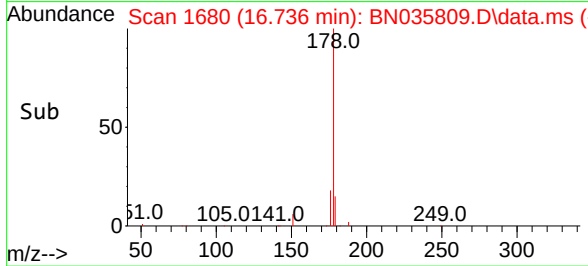
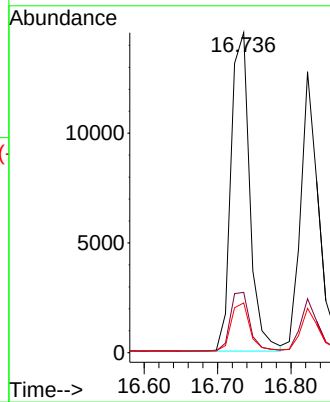
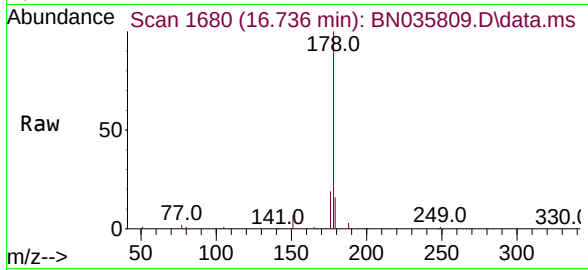
Tgt Ion:178 Resp: 25787

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.2 12.3 18.5



#26

Anthracene

Concen: 0.360 ng

RT: 16.822 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

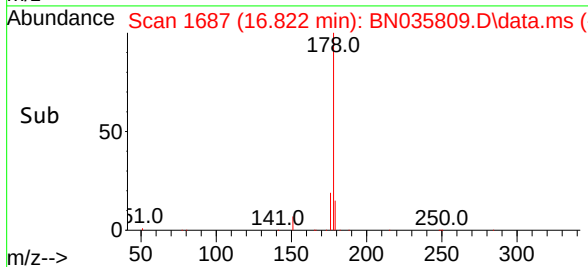
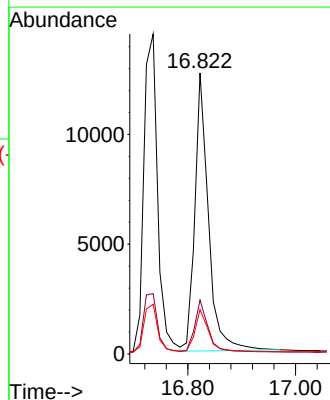
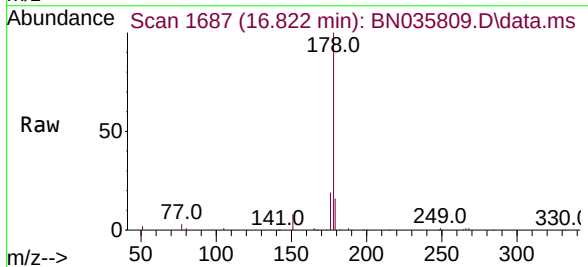
Tgt Ion:178 Resp: 22279

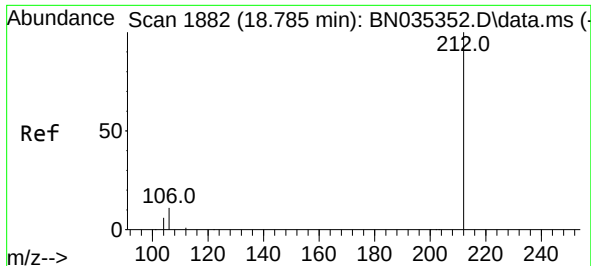
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.4 12.6 18.8

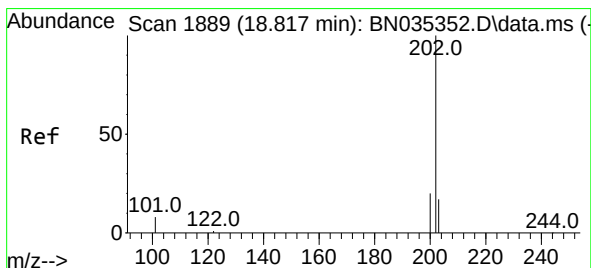
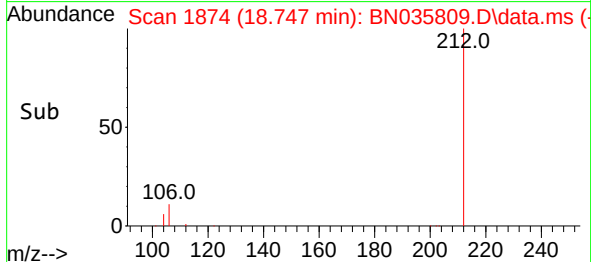
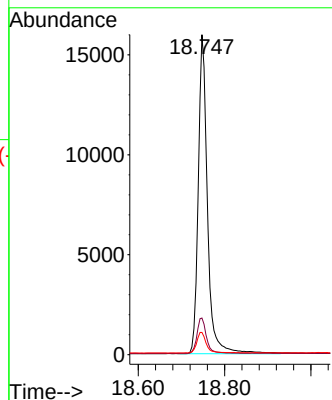
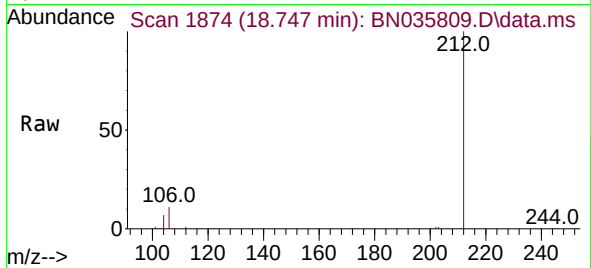




#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

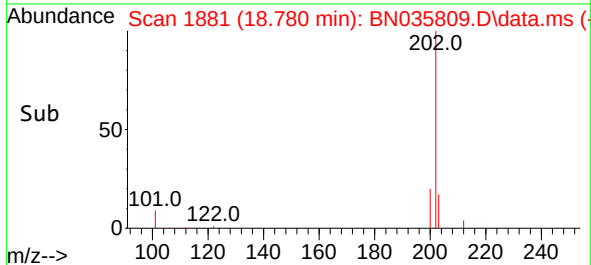
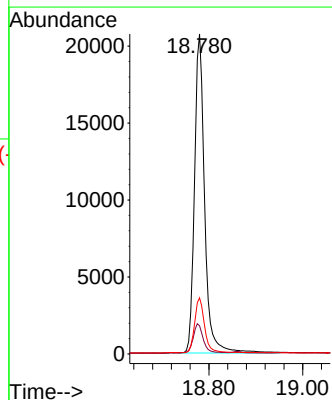
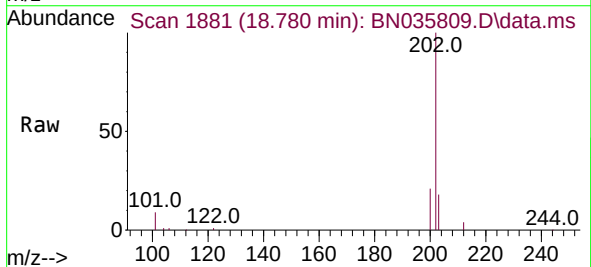
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

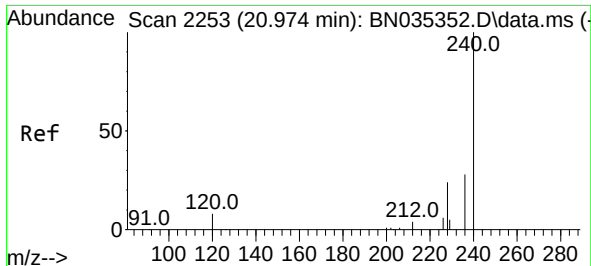
Tgt Ion:212 Resp: 23606
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 31096
Ion Ratio Lower Upper
202 100
101 9.3 7.4 11.0
203 16.9 13.7 20.5

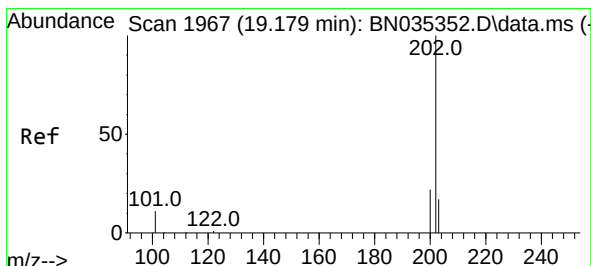
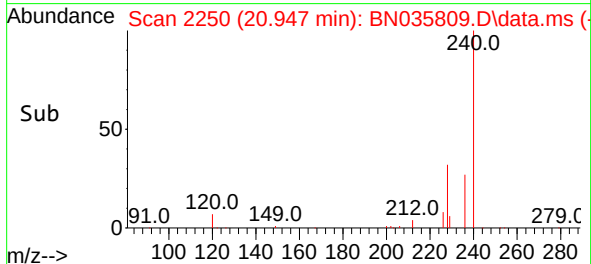
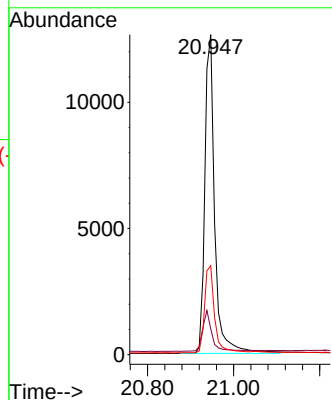
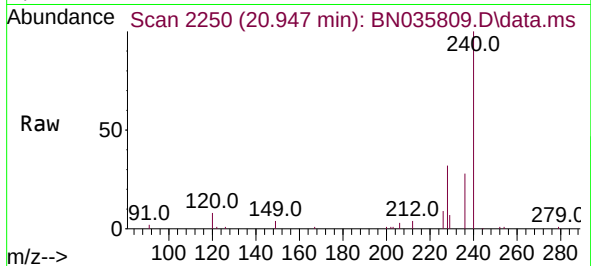




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

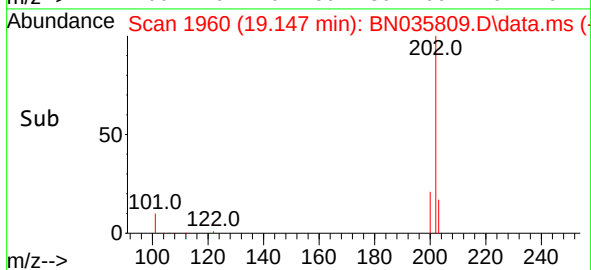
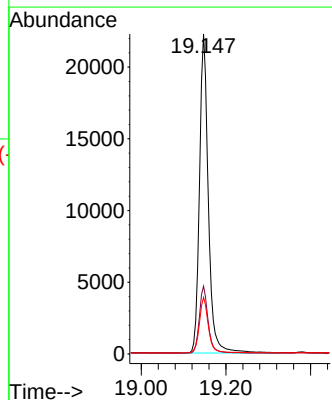
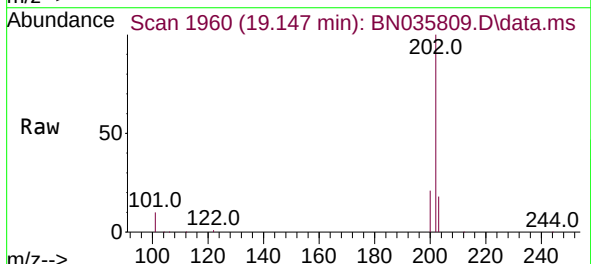
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

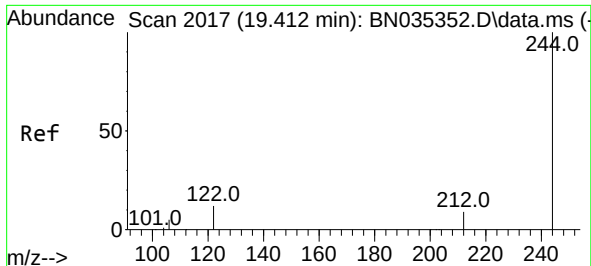
Tgt Ion:240 Resp: 20198
Ion Ratio Lower Upper
240 100
120 8.0 7.9 11.9
236 27.8 22.9 34.3



#30
Pyrene
Concen: 0.432 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 32211
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.8 14.3 21.5

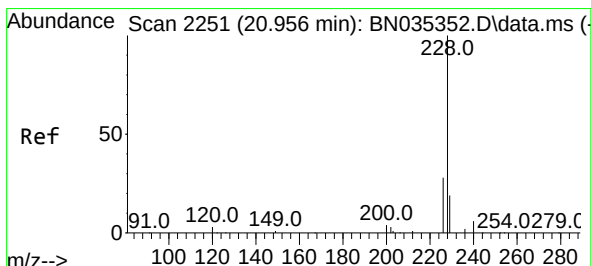
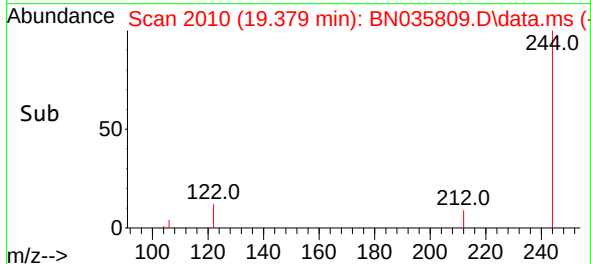
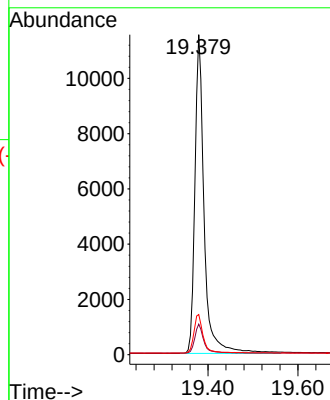
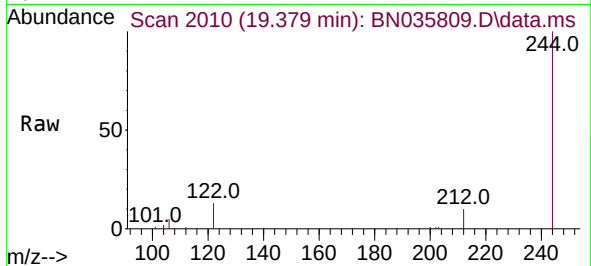




#31
 Terphenyl-d14
 Concen: 0.414 ng
 RT: 19.379 min Scan# 20
 Delta R.T. -0.009 min
 Lab File: BN035809.D
 Acq: 24 Dec 2024 07:09

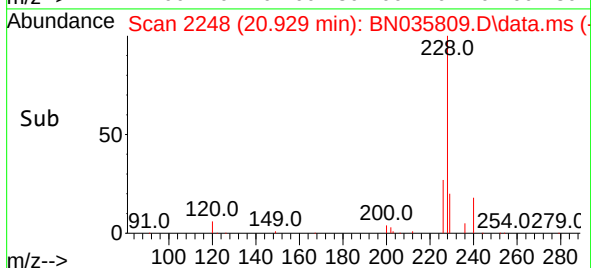
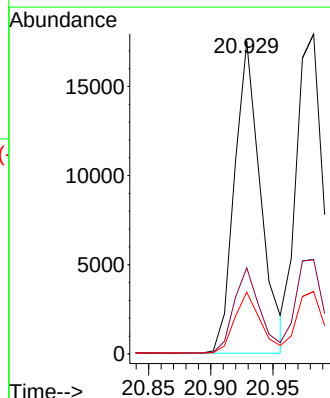
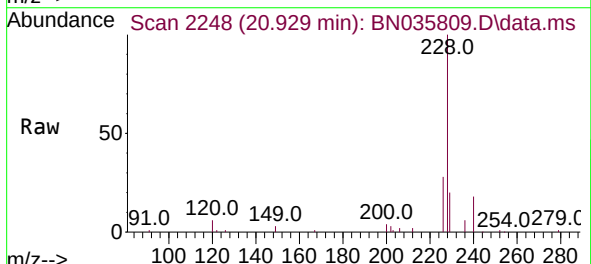
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

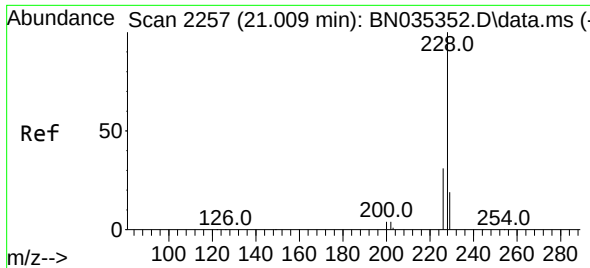
Tgt Ion:244 Resp: 16501
 Ion Ratio Lower Upper
 244 100
 212 9.5 8.1 12.1
 122 12.5 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.360 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035809.D
 Acq: 24 Dec 2024 07:09

Tgt Ion:228 Resp: 25428
 Ion Ratio Lower Upper
 228 100
 226 27.5 22.5 33.7
 229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.408 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

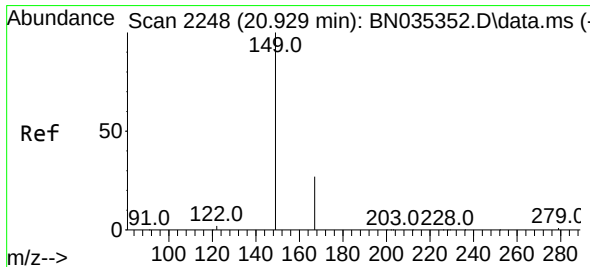
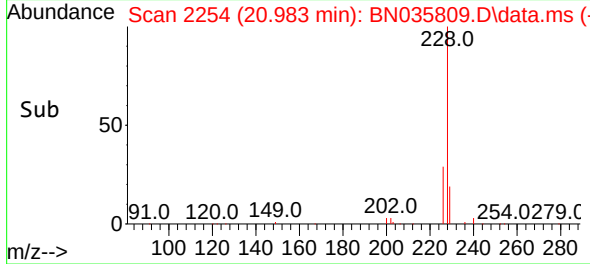
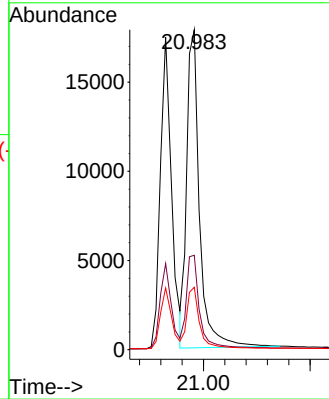
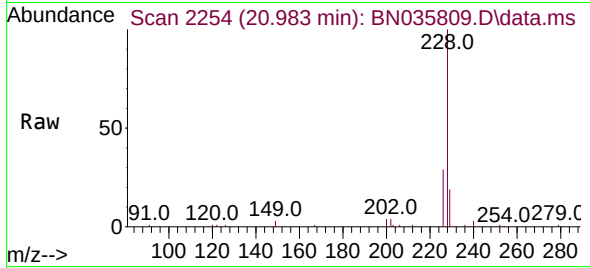
Tgt Ion:228 Resp: 29722

Ion Ratio Lower Upper

228 100

226 29.5 24.6 37.0

229 19.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.402 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

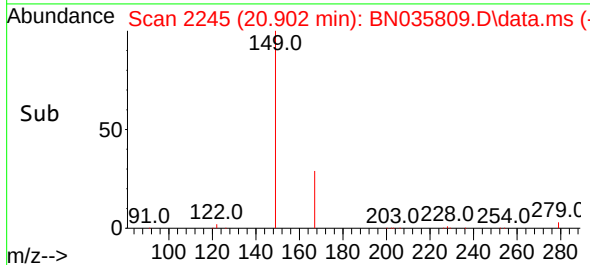
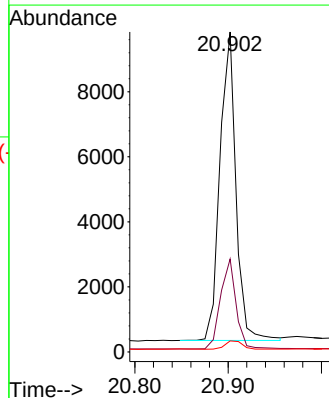
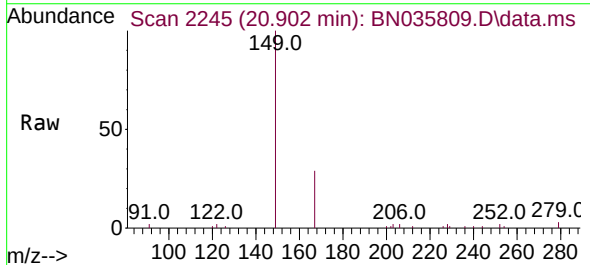
Tgt Ion:149 Resp: 11220

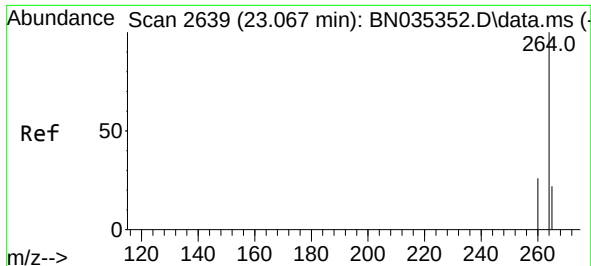
Ion Ratio Lower Upper

149 100

167 28.4 22.2 33.4

279 2.9 2.7 4.1

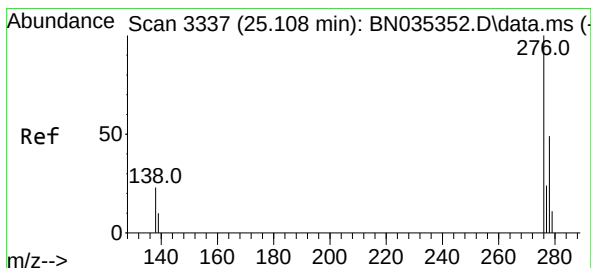
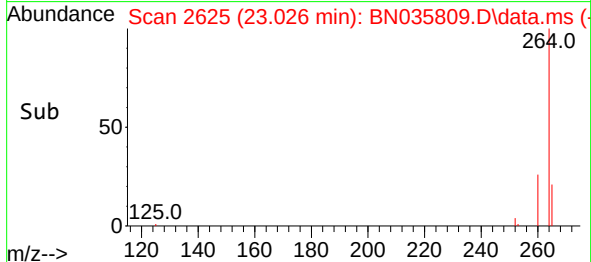
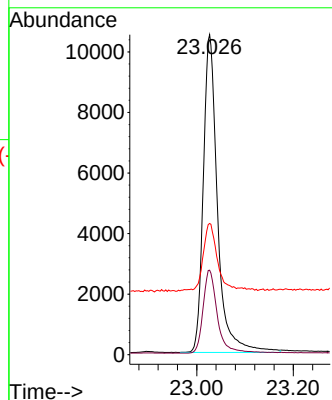
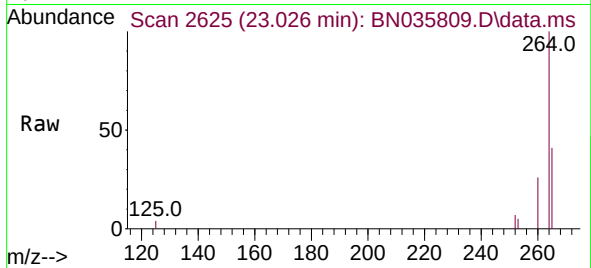




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 21431
Delta R.T. -0.015 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

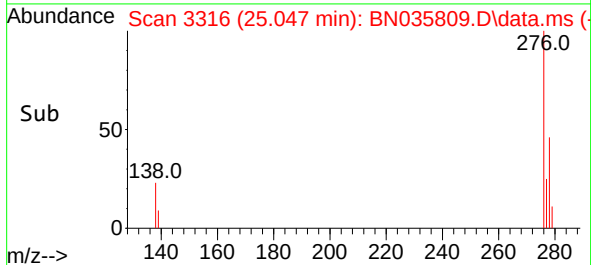
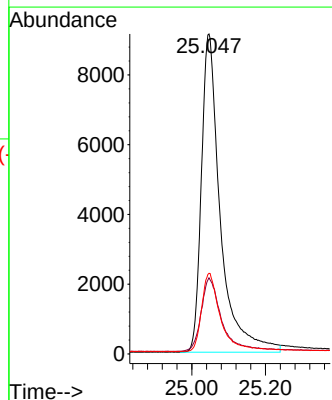
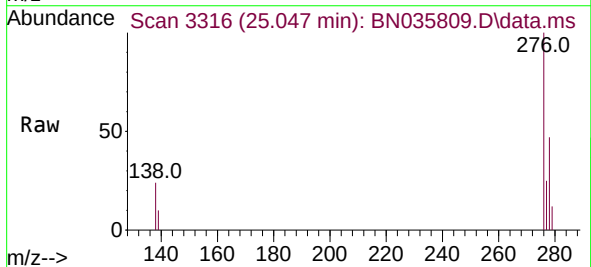
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

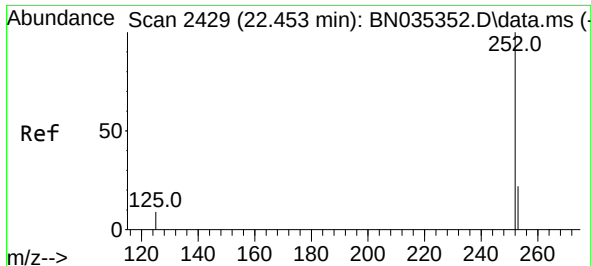
Tgt Ion:	264	Resp:	21431
Ion Ratio	Lower	Upper	
264	100		
260	26.4	21.4	32.2
265	41.0	40.2	60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.021 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

Tgt Ion:	276	Resp:	32558
Ion Ratio	Lower	Upper	
276	100		
138	24.5	19.4	29.0
277	24.7	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.559 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

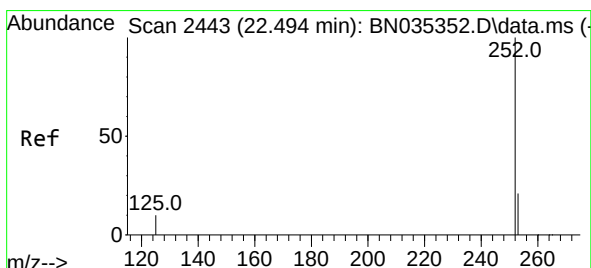
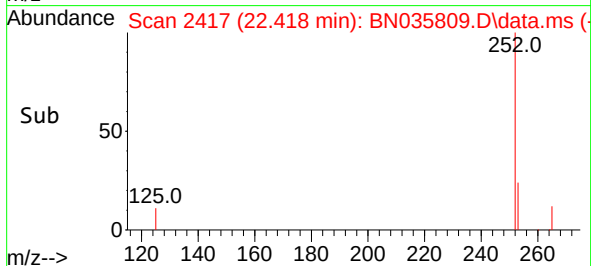
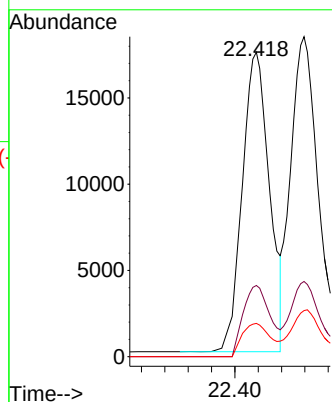
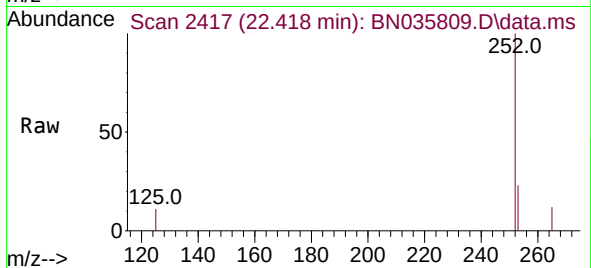
Tgt Ion:252 Resp: 43862

Ion Ratio Lower Upper

252 100

253 23.4 19.6 29.4

125 10.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.426 ng

RT: 22.459 min Scan# 2431

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

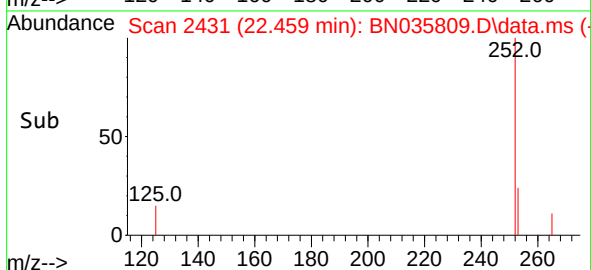
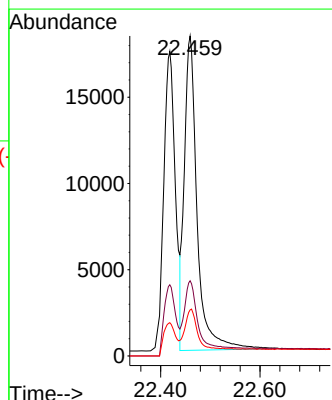
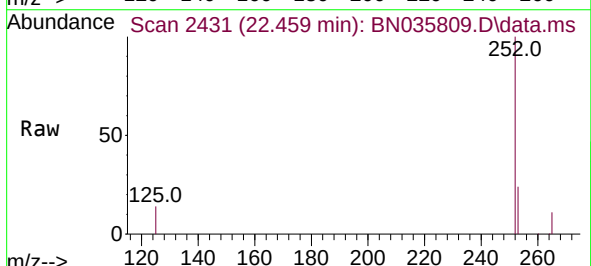
Tgt Ion:252 Resp: 32848

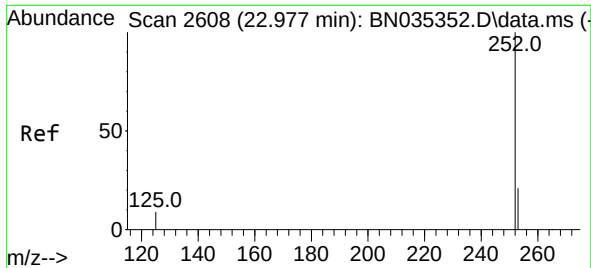
Ion Ratio Lower Upper

252 100

253 23.5 19.5 29.3

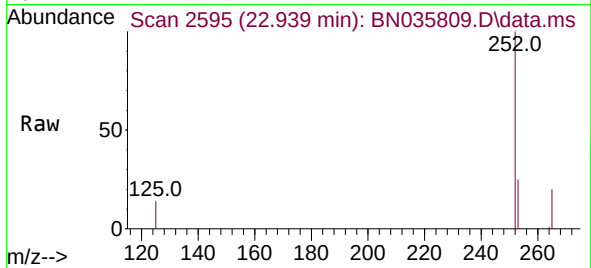
125 14.4 10.2 15.4



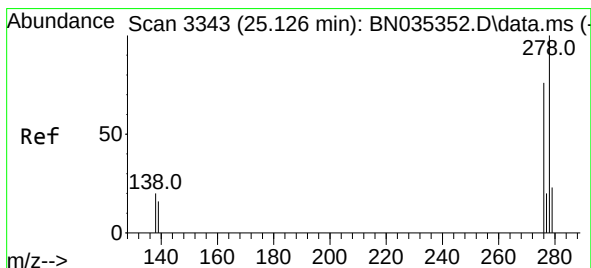
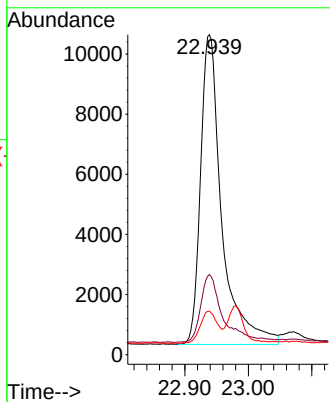
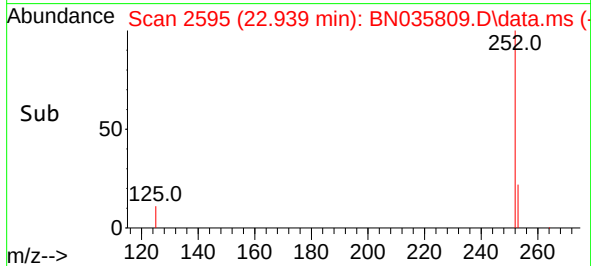


#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 22.939 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09

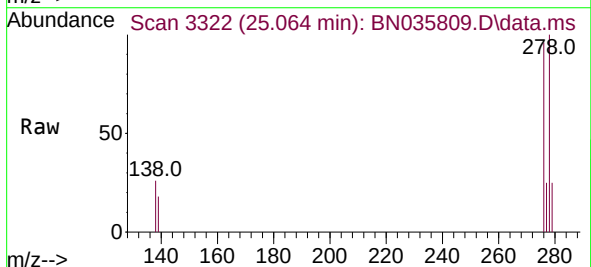
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



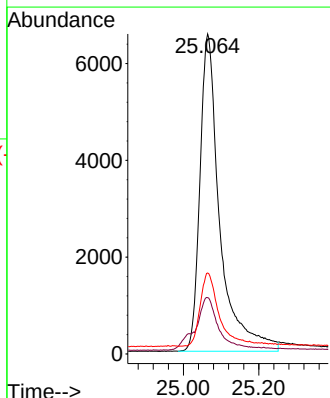
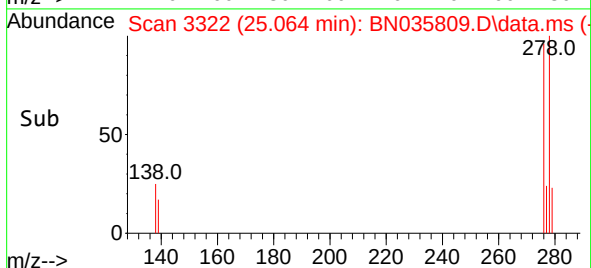
Tgt Ion:252 Resp: 23952
Ion Ratio Lower Upper
252 100
253 25.0 20.2 30.4
125 13.6 10.9 16.3

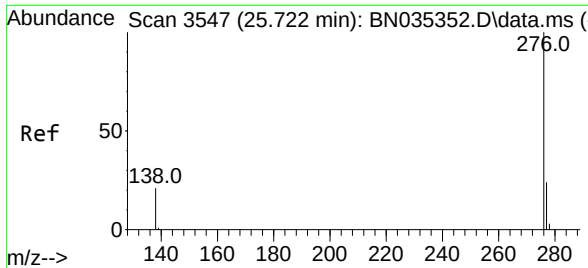


#40
Dibenzo(a,h)anthracene
Concen: 0.364 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035809.D
Acq: 24 Dec 2024 07:09



Tgt Ion:278 Resp: 24090
Ion Ratio Lower Upper
278 100
139 17.6 14.2 21.4
279 25.3 20.5 30.7

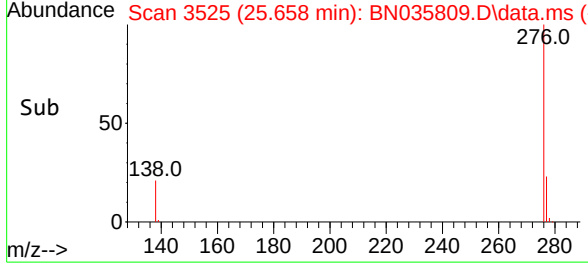
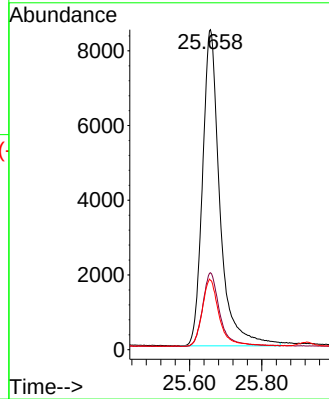
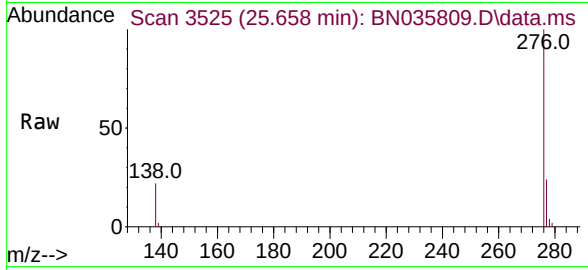




#41
 Benzo(g,h,i)perylene
 Concen: 0.410 ng
 RT: 25.658 min Scan# 31
 Delta R.T. -0.021 min
 Lab File: BN035809.D
 Acq: 24 Dec 2024 07:09

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion:	276	Resp:	28353
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.9	29.9
138	21.7	17.8	26.8



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)

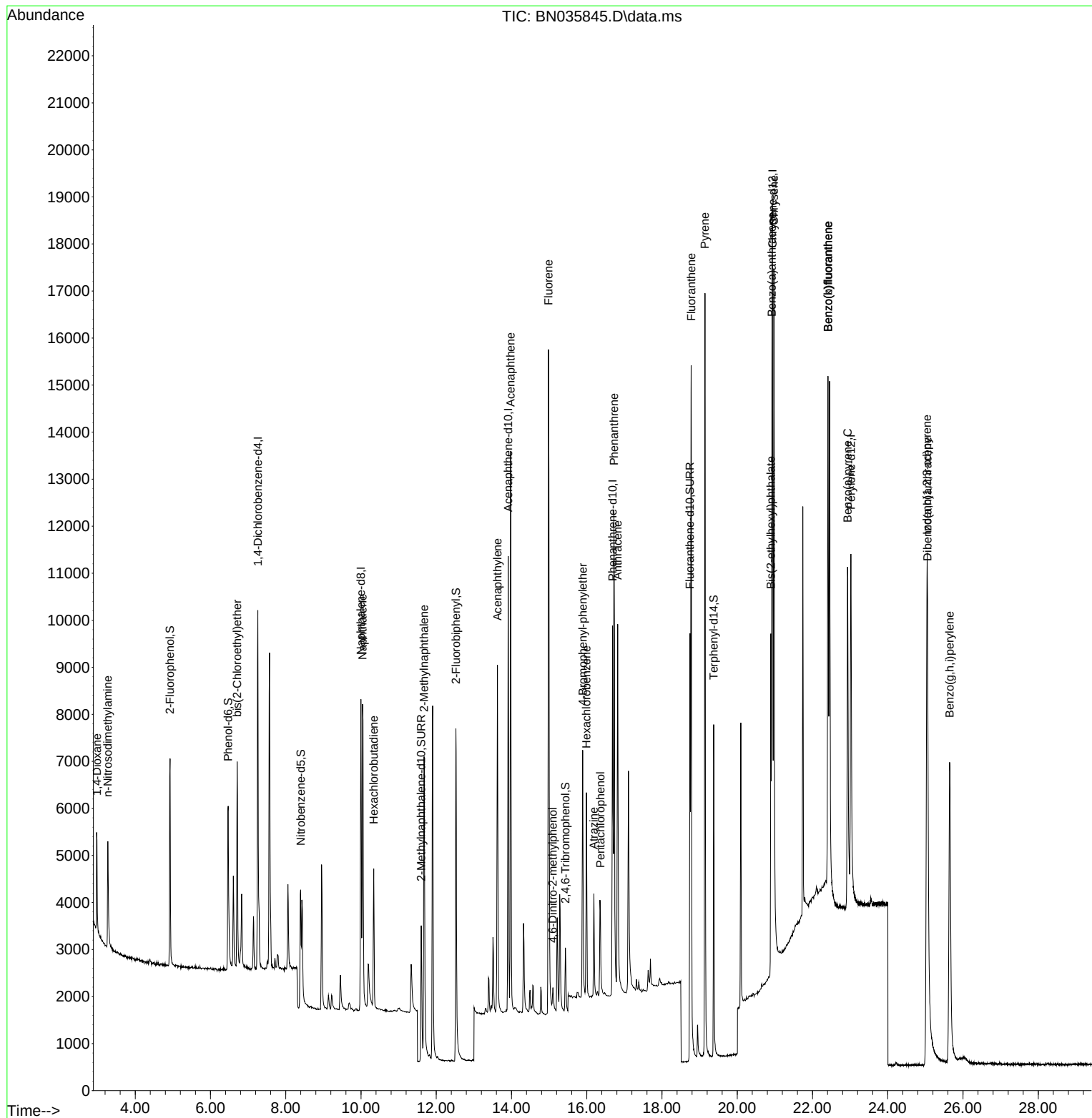
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng	#-0.02
35) Perylene-d12	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

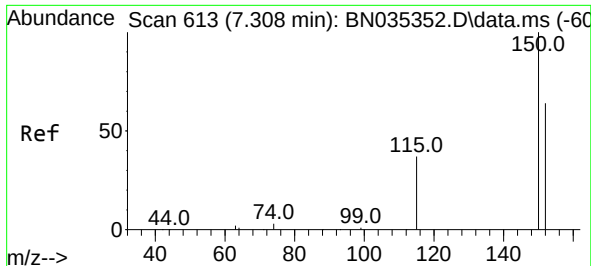
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

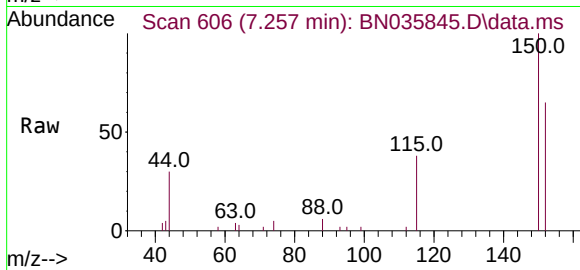
Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



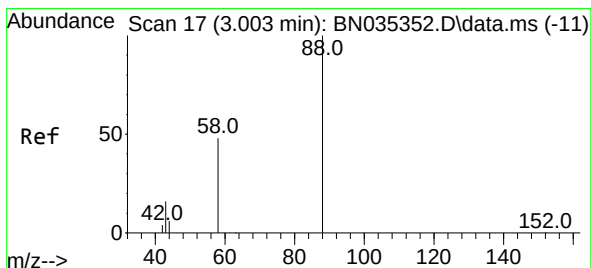
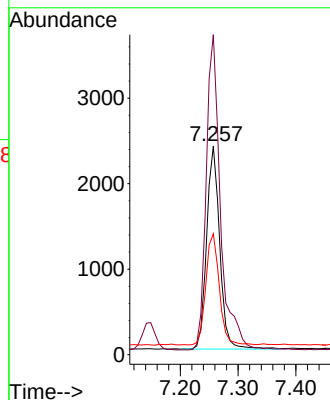
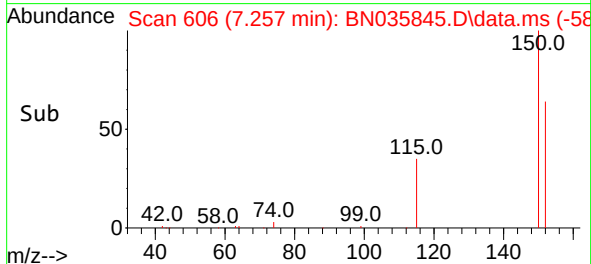


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

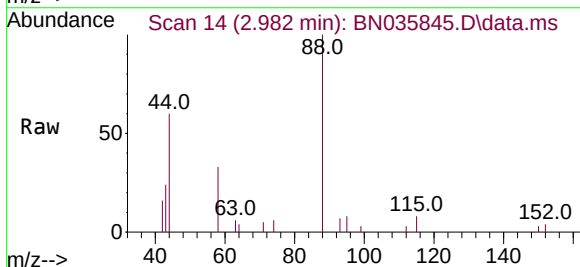
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



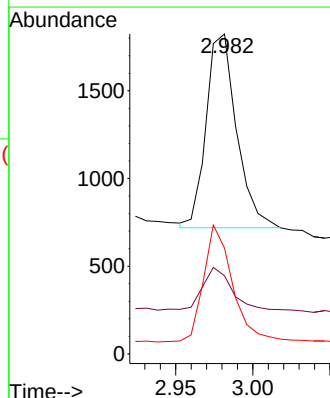
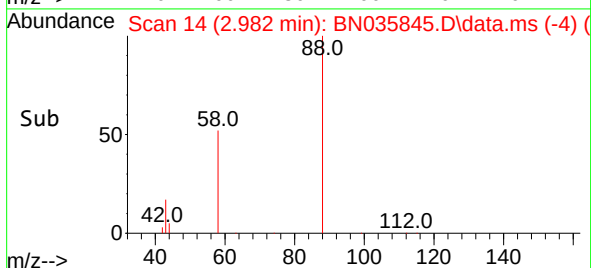
Tgt Ion:152 Resp: 3755
Ion Ratio Lower Upper
152 100
150 153.5 124.0 186.0
115 58.0 49.6 74.4

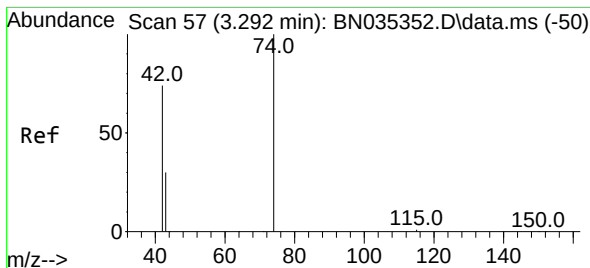


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



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

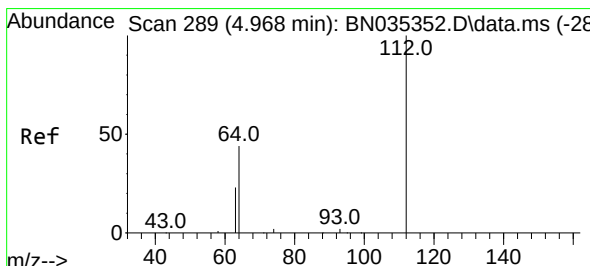
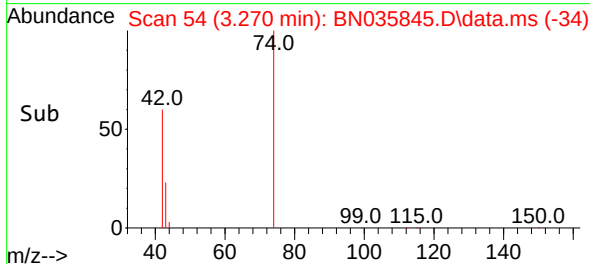
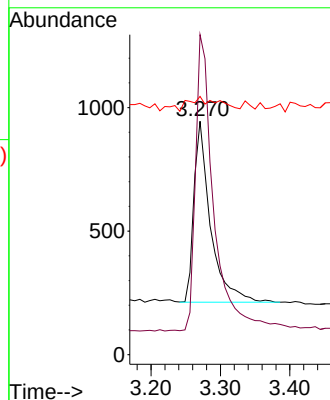
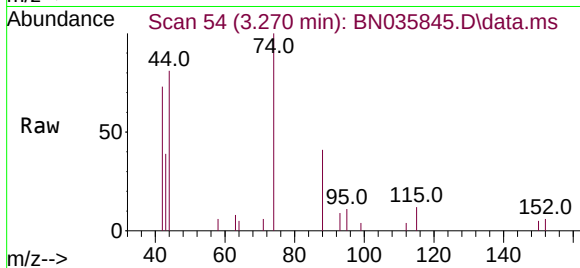
Tgt Ion: 42 Resp: 1223

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

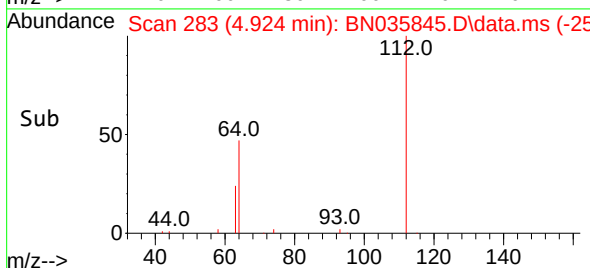
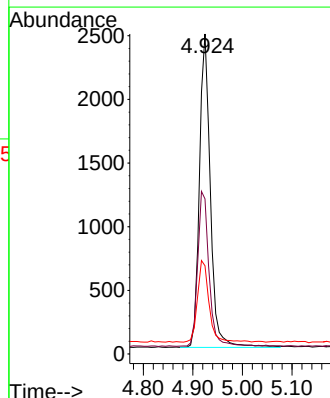
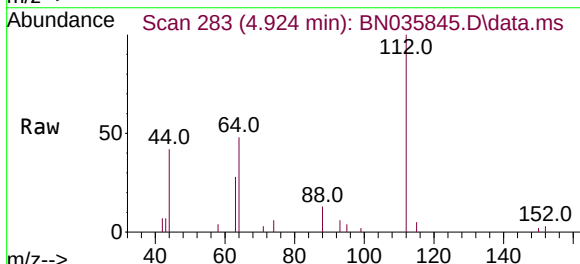
Tgt Ion: 112 Resp: 3777

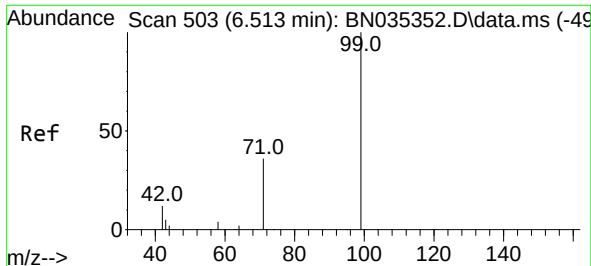
Ion Ratio Lower Upper

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

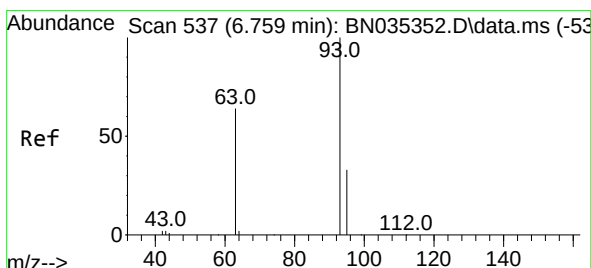
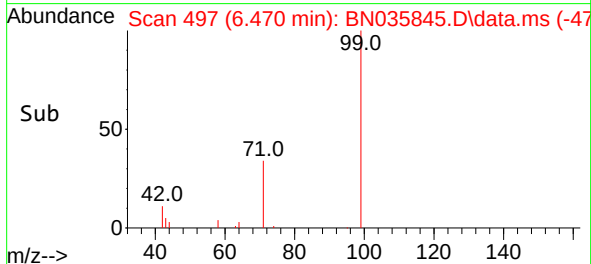
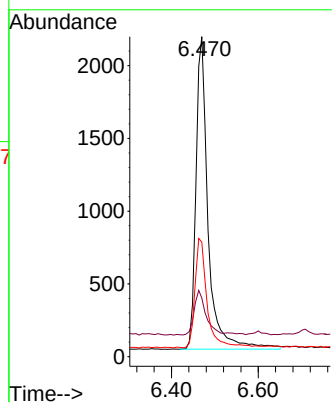
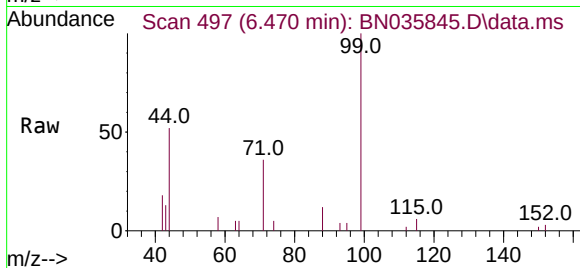
Tgt Ion: 99 Resp: 4175

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

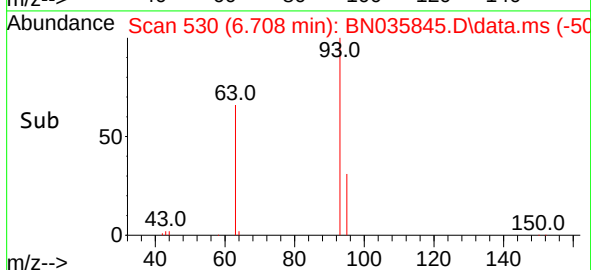
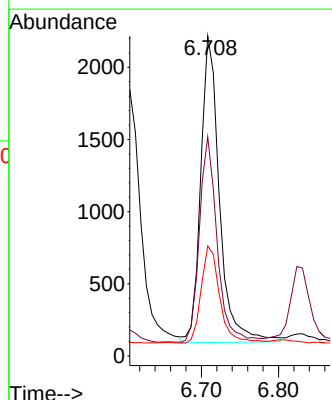
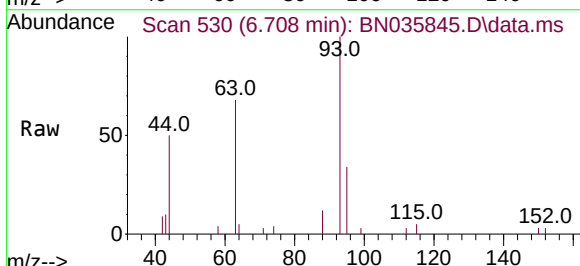
Tgt Ion: 93 Resp: 3599

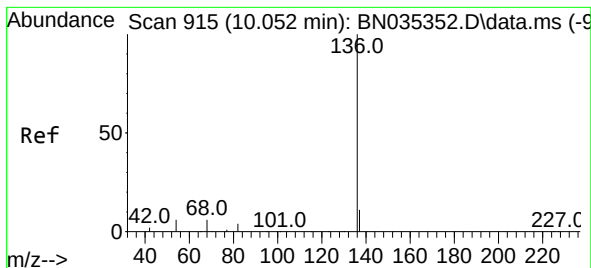
Ion Ratio Lower Upper

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

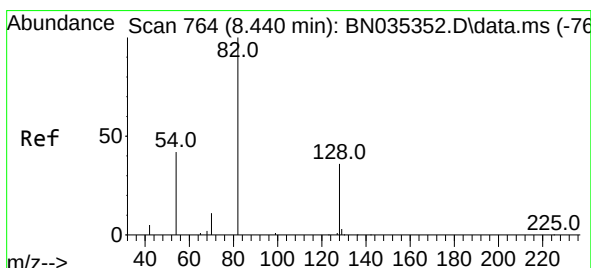
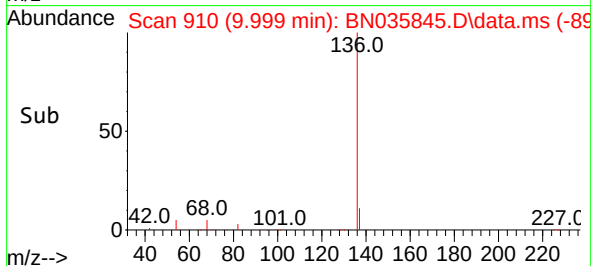
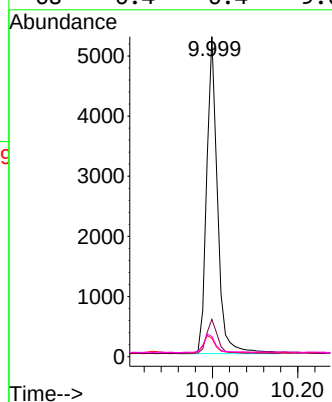
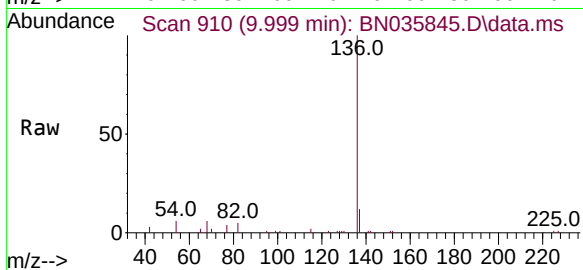
Ion Ratio Lower Upper

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

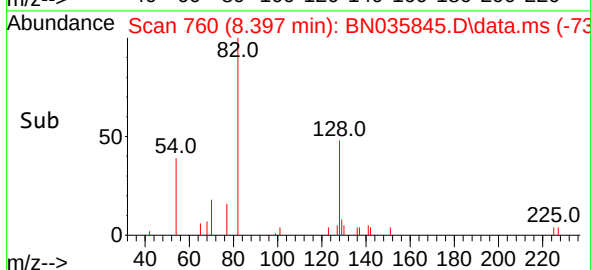
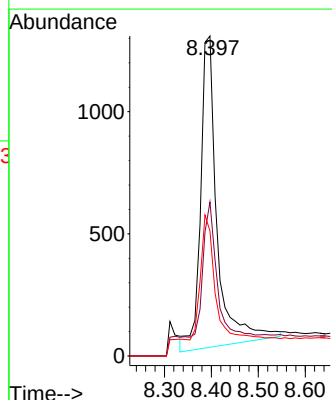
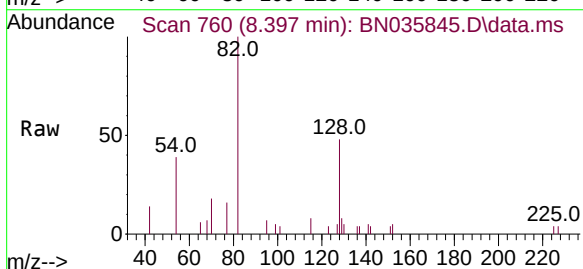
Tgt Ion: 82 Resp: 3148

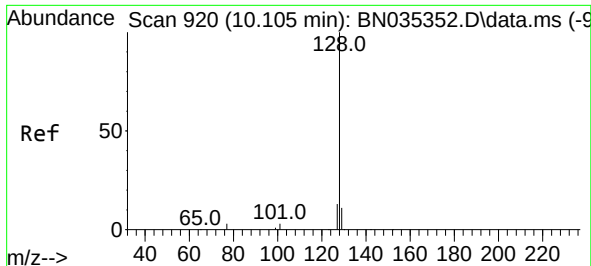
Ion Ratio Lower Upper

82 100

128 48.1 33.4 50.0

54 39.1 36.7 55.1

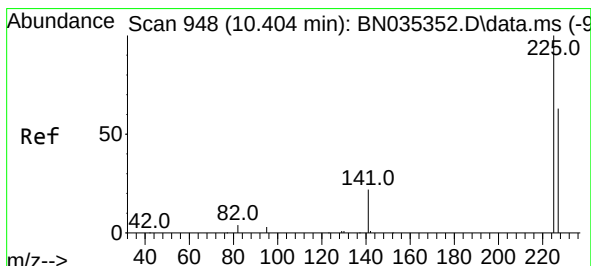
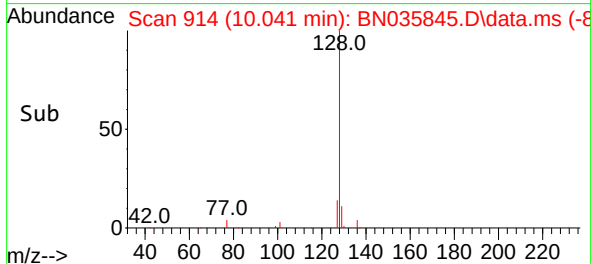
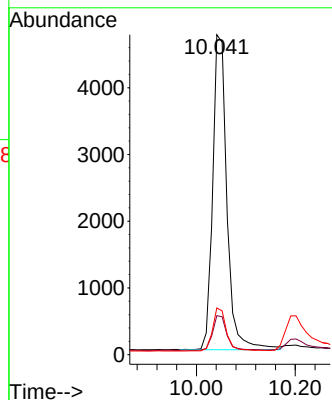
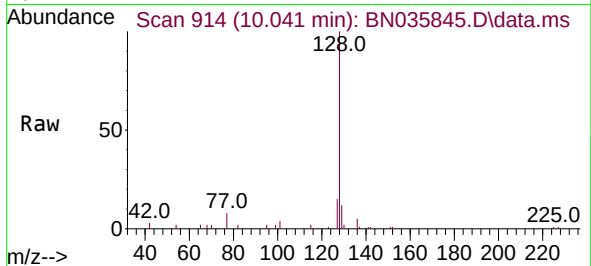




#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

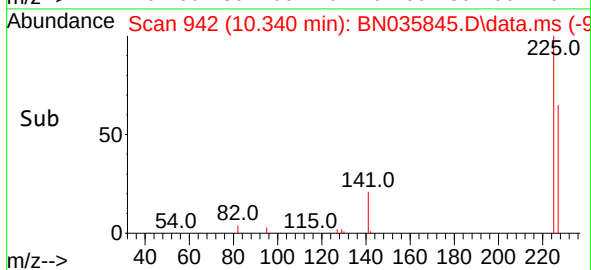
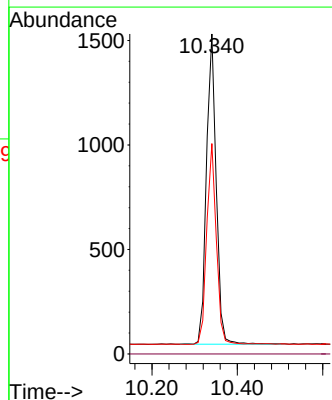
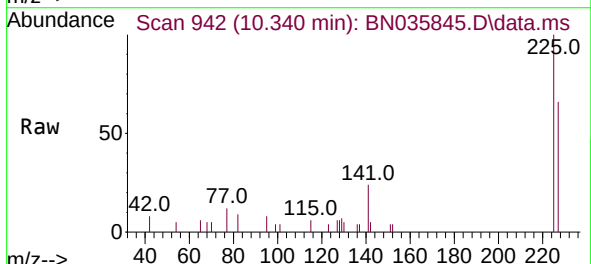
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

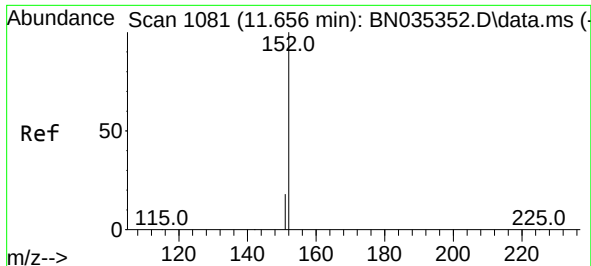
Tgt Ion:128 Resp: 9440
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.6 11.4 17.2



#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

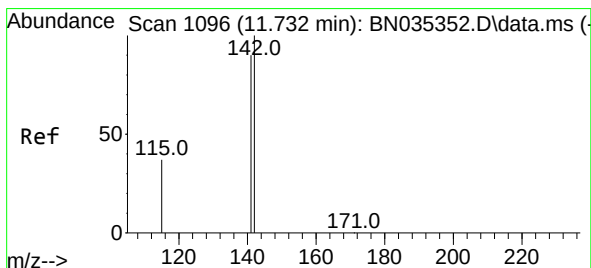
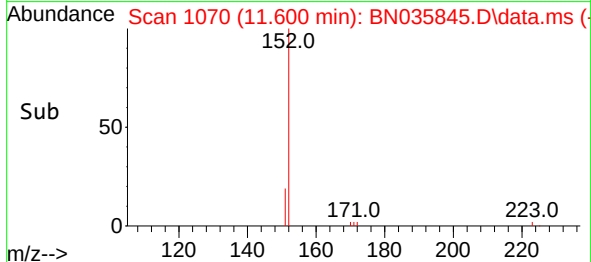
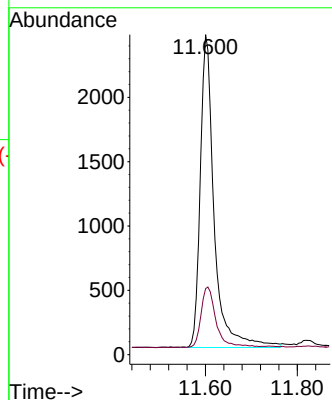
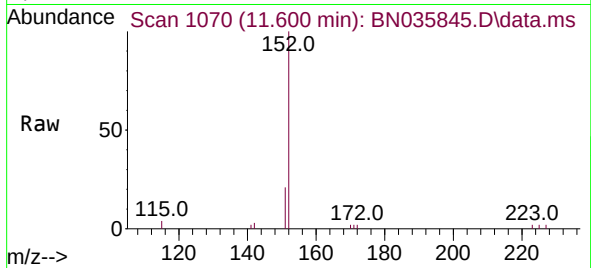




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

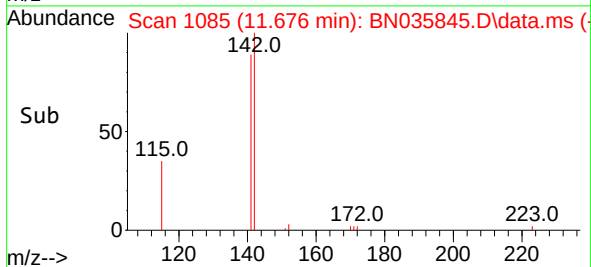
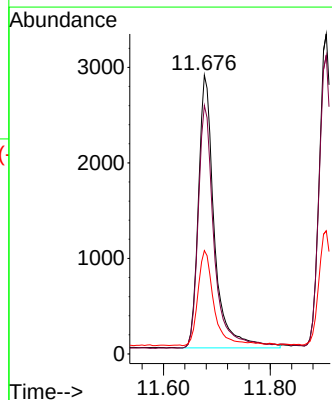
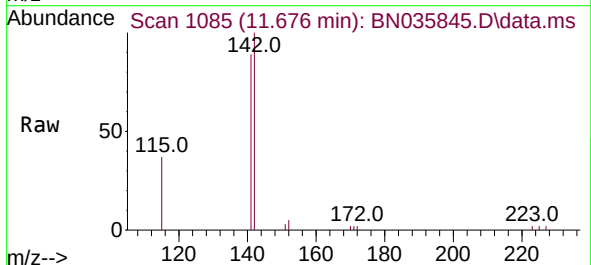
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

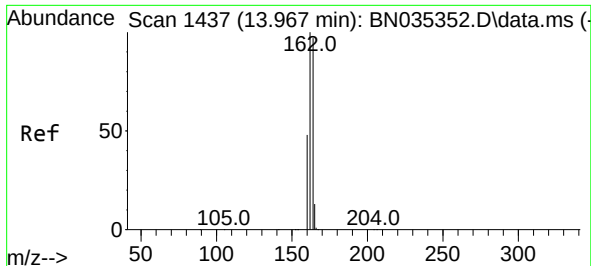
Tgt Ion:152 Resp: 5080
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#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

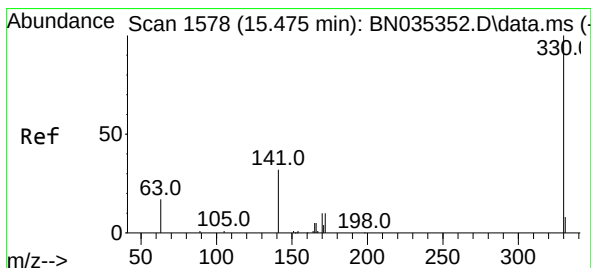
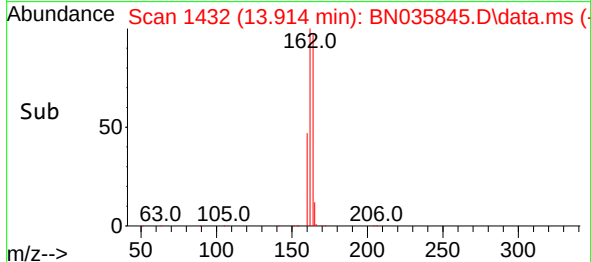
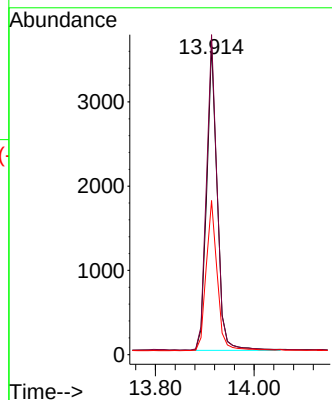
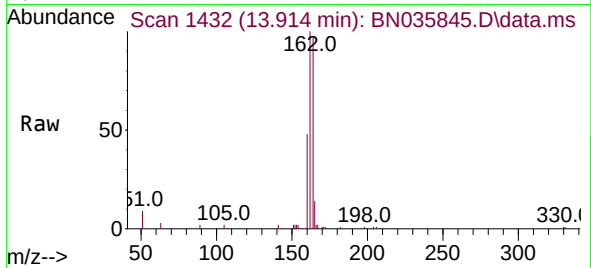




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

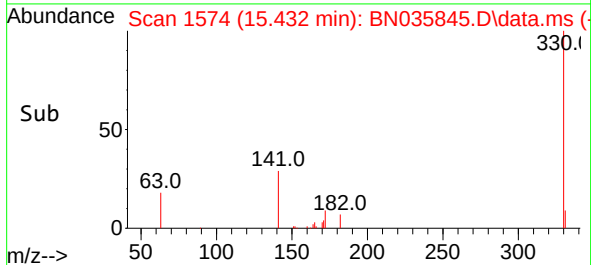
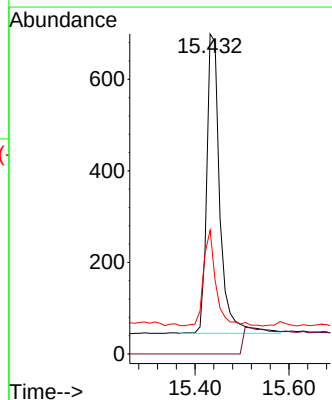
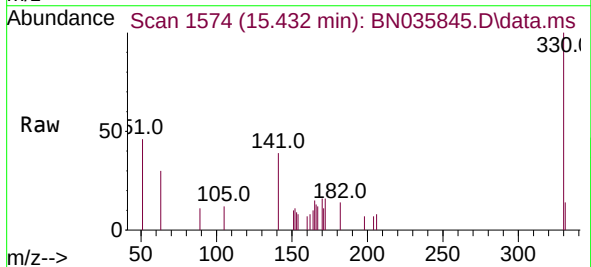
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

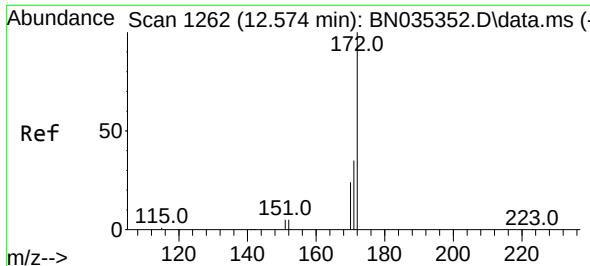
Tgt Ion:164 Resp: 5387
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 49.7 40.1 60.1



#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

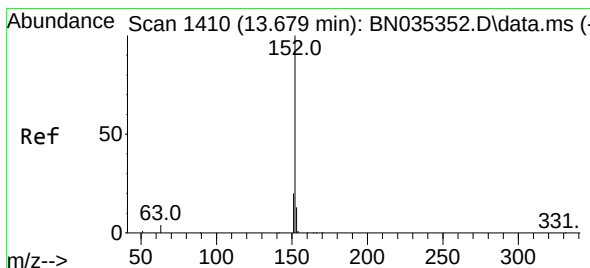
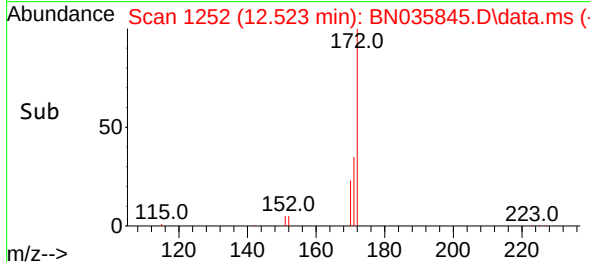
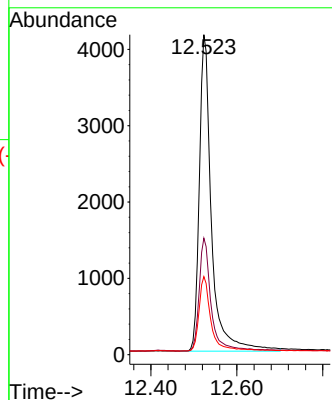
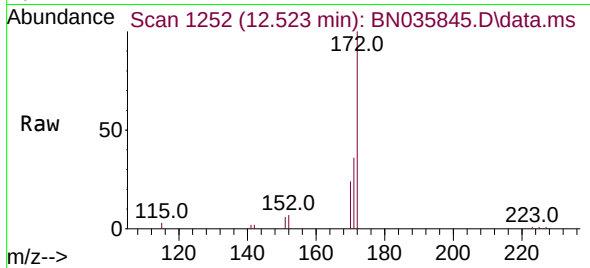




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

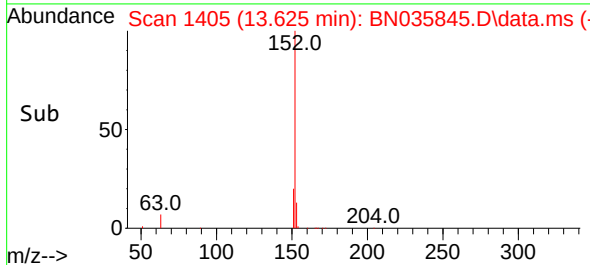
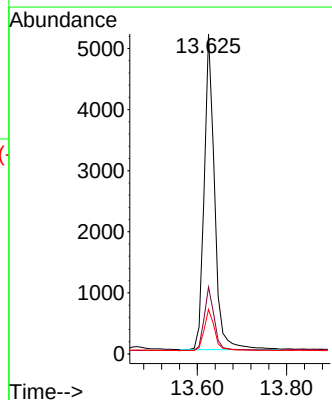
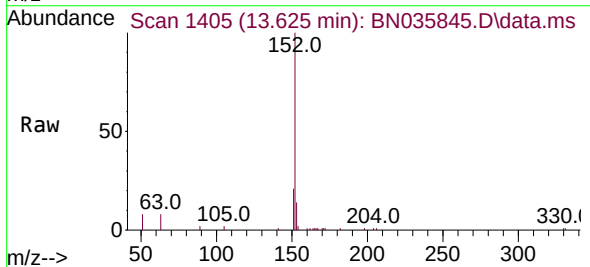
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

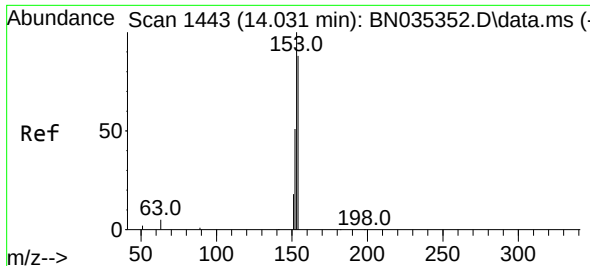
Tgt Ion:	172	Resp:	8104
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8



#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

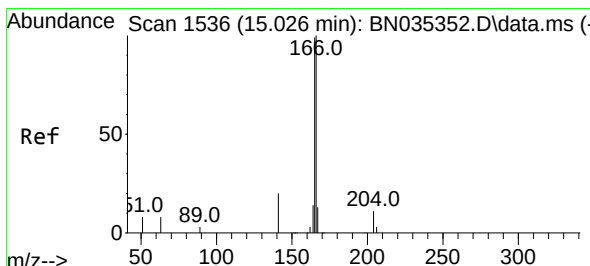
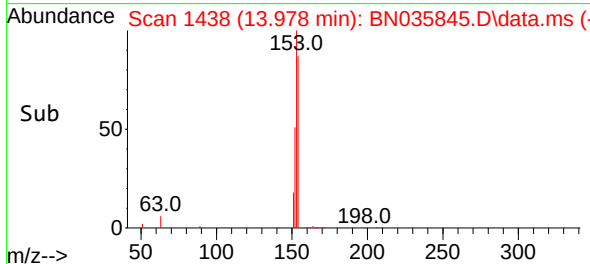
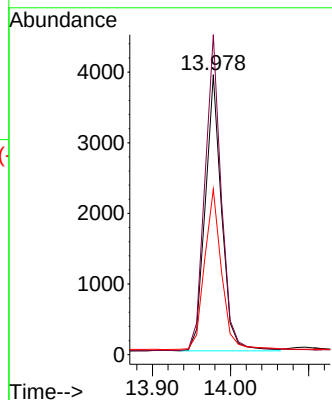
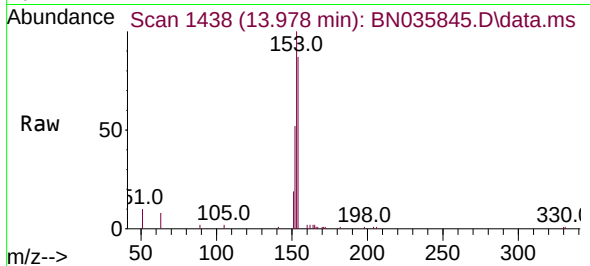




#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

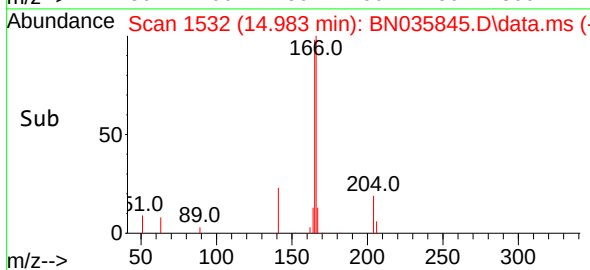
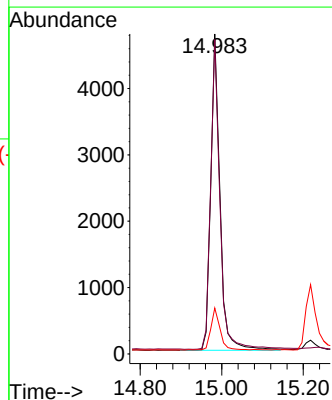
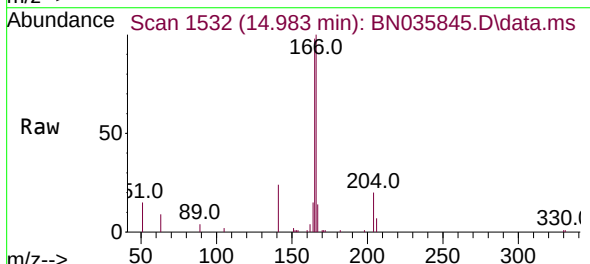
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

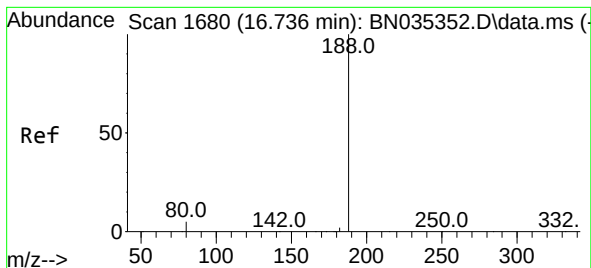
Tgt Ion:154 Resp: 5695
Ion Ratio Lower Upper
154 100
153 116.1 92.6 139.0
152 60.4 49.0 73.6



#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

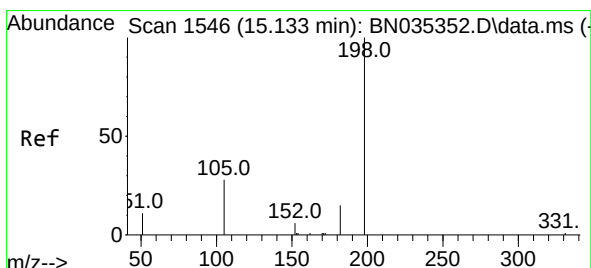
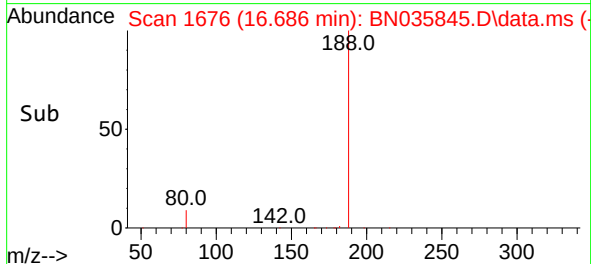
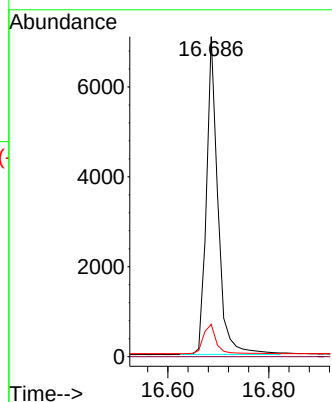
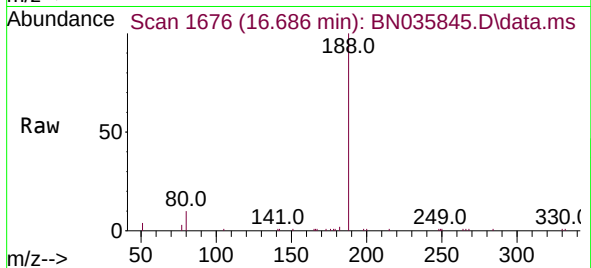
Tgt Ion:188 Resp: 11262

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

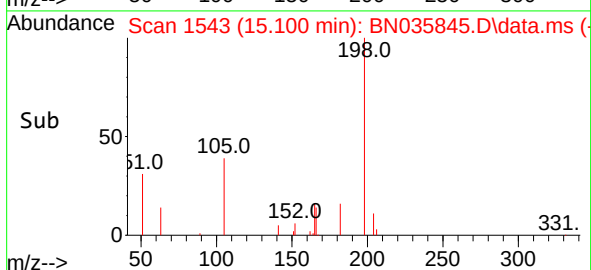
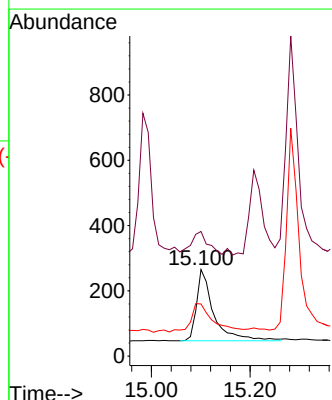
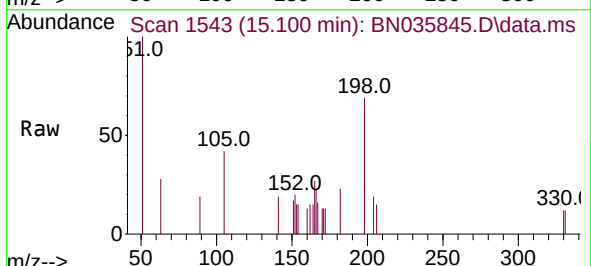
Tgt Ion:198 Resp: 526

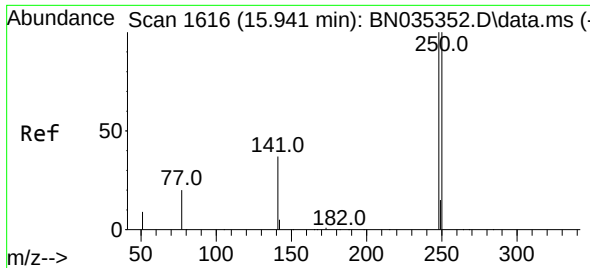
Ion Ratio Lower Upper

198 100

51 144.2 46.5 69.7#

105 60.4 45.3 67.9

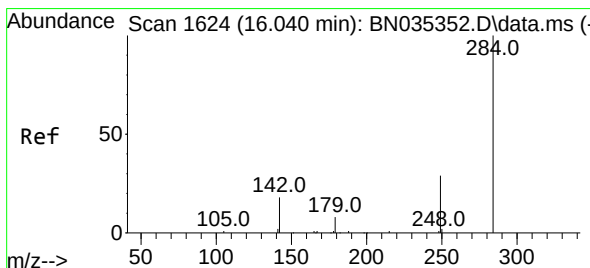
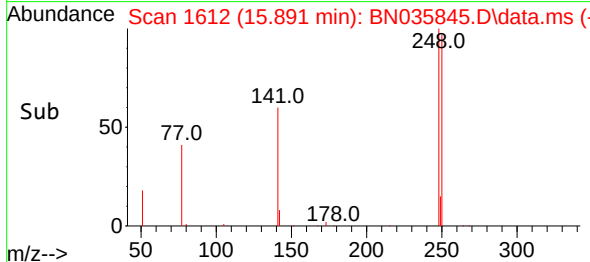
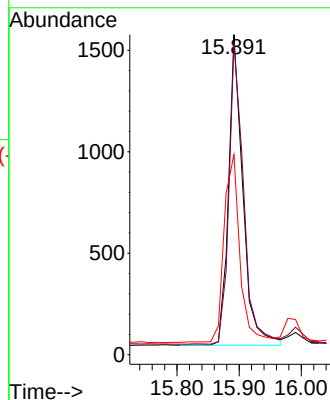
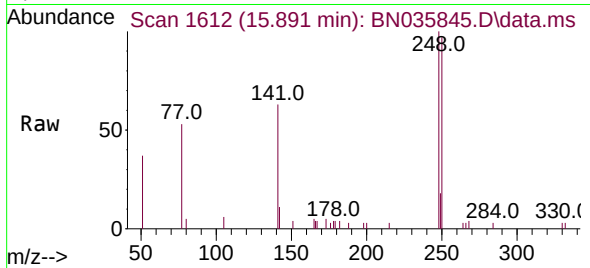




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

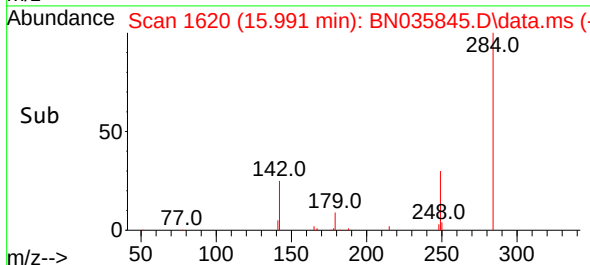
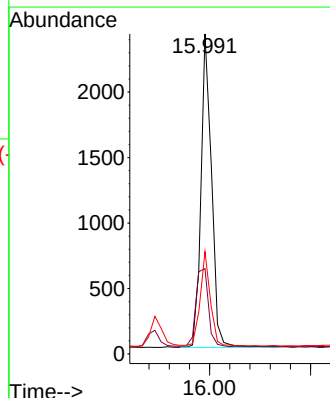
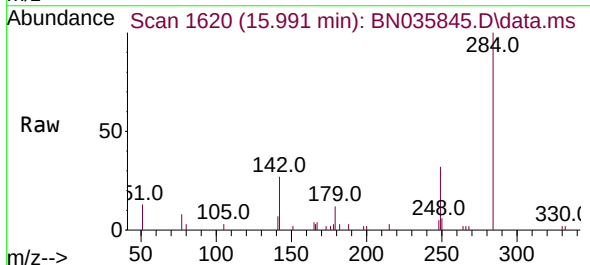
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

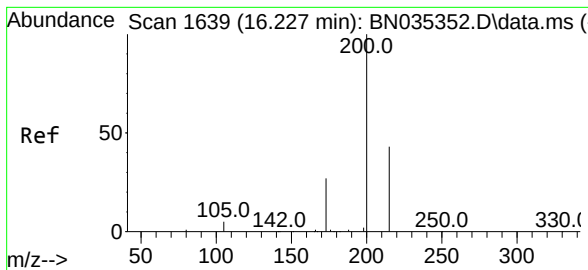
Tgt Ion:248 Resp: 2443
Ion Ratio Lower Upper
248 100
250 97.3 80.6 120.8
141 62.5 31.5 47.3#



#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

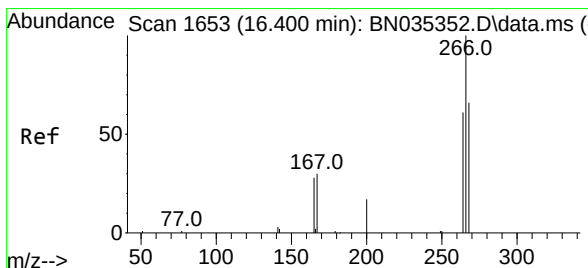
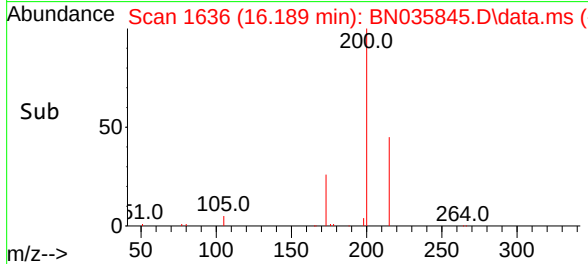
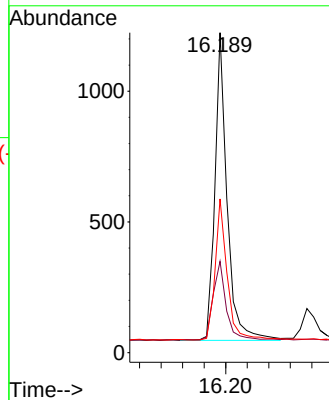
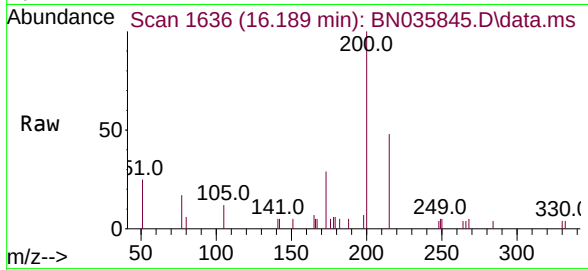
Instrument :

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

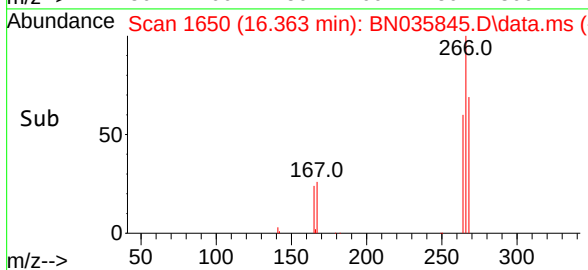
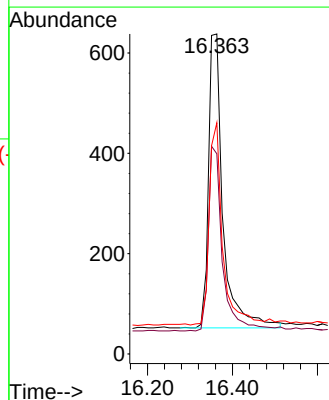
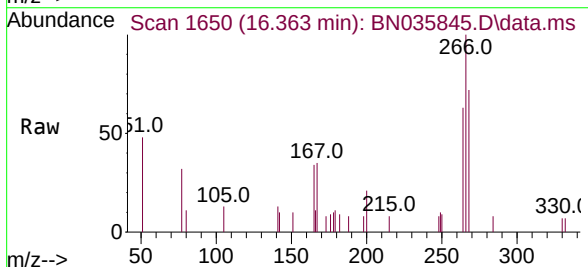
RT: 16.363 min Scan# 1650

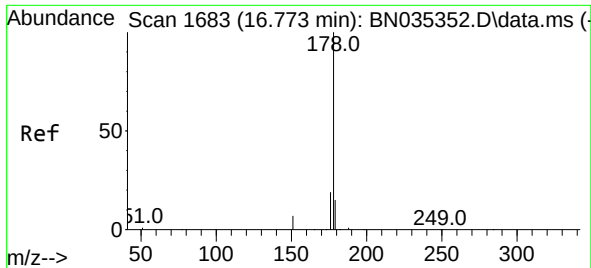
Delta R.T. -0.013 min

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

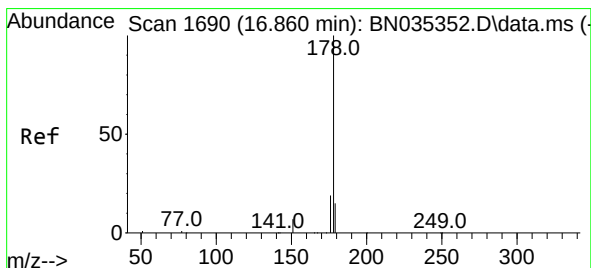
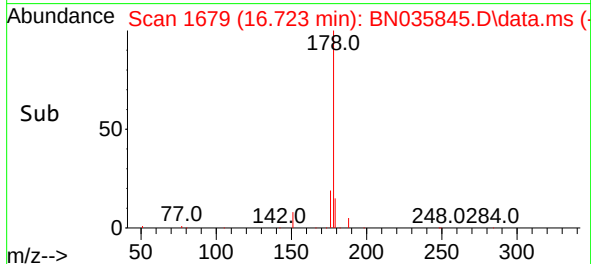
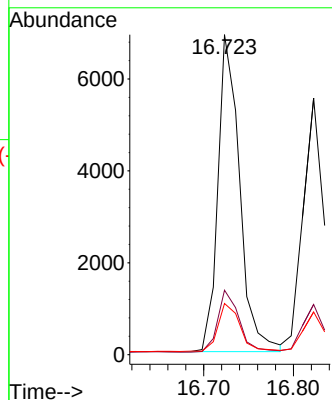
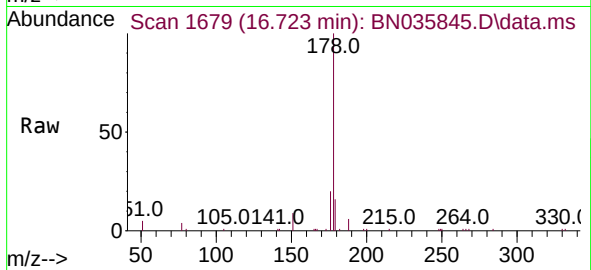




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1682
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

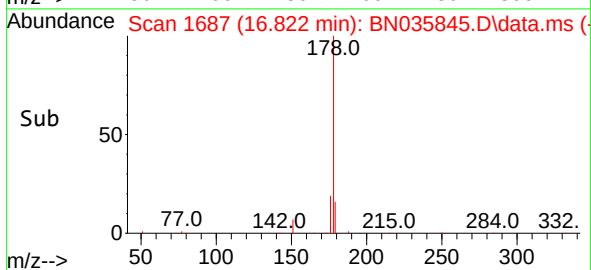
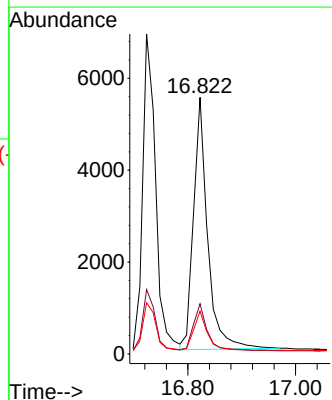
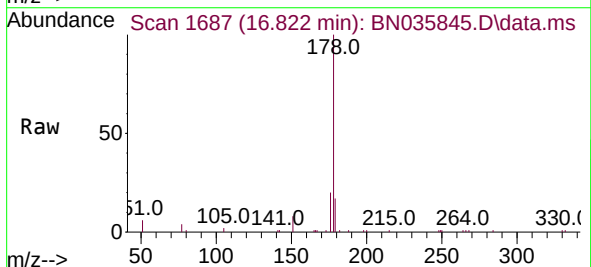
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

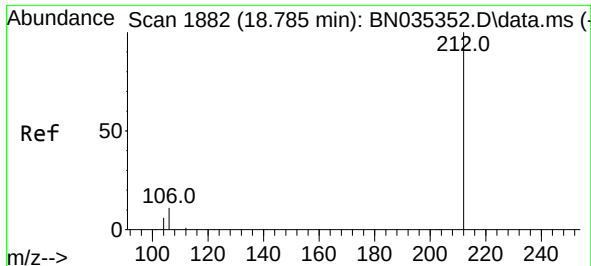
Tgt Ion:178 Resp: 11602
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.7 12.3 18.5



#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

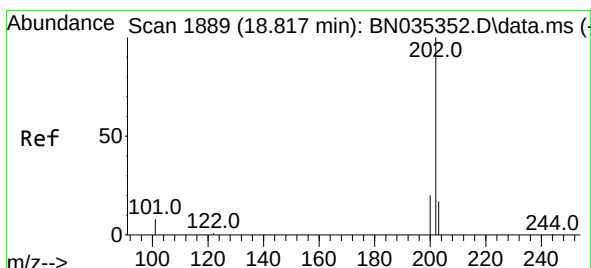
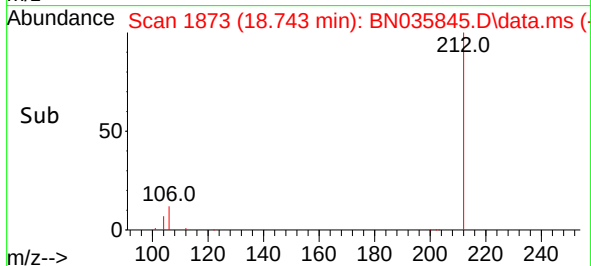
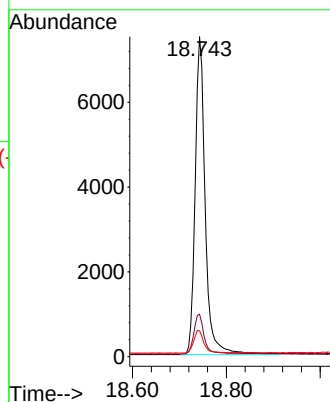
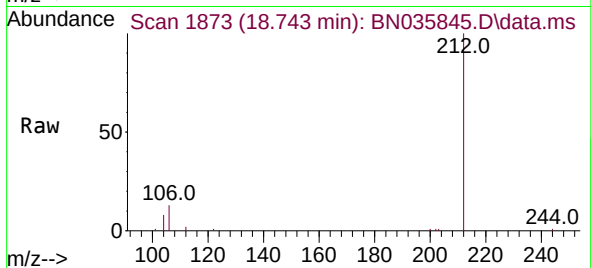
Tgt Ion:212 Resp: 11161

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

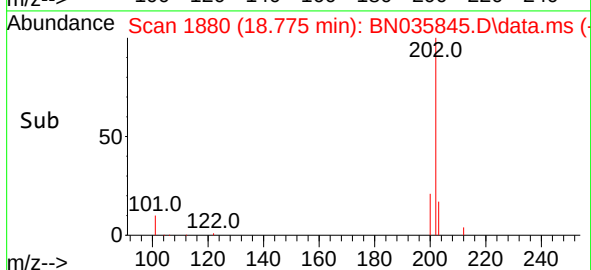
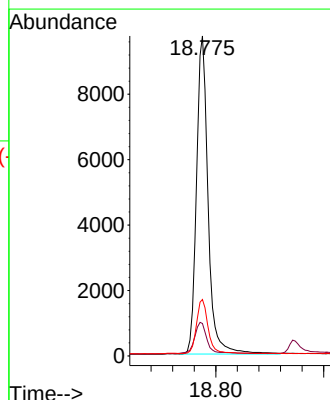
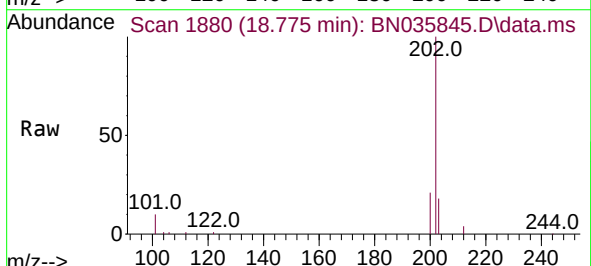
Tgt Ion:202 Resp: 14489

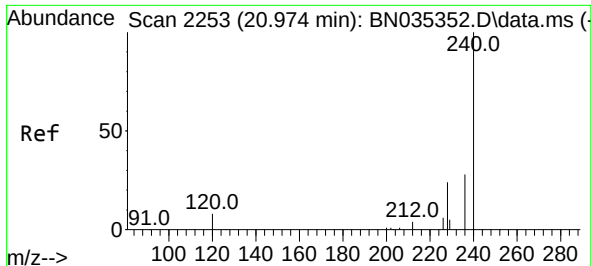
Ion Ratio Lower Upper

202 100

101 10.7 7.4 11.0

203 17.0 13.7 20.5

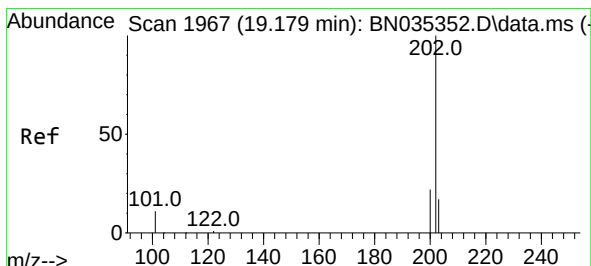
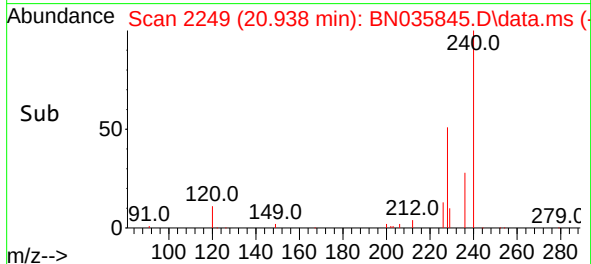
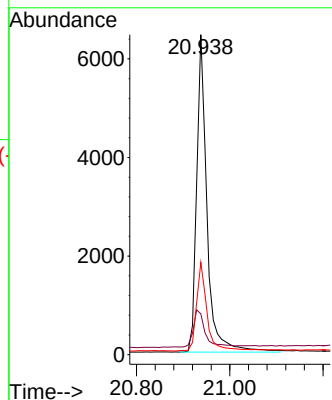
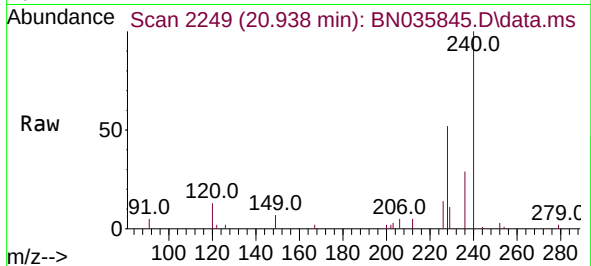




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

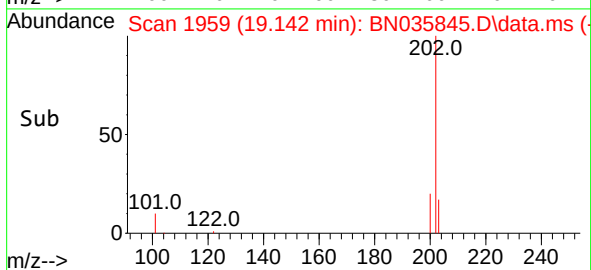
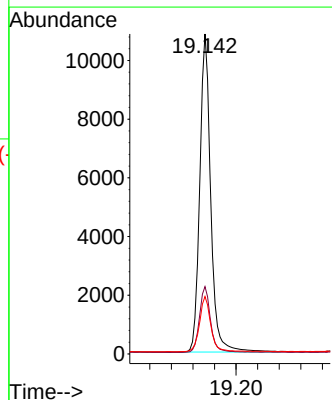
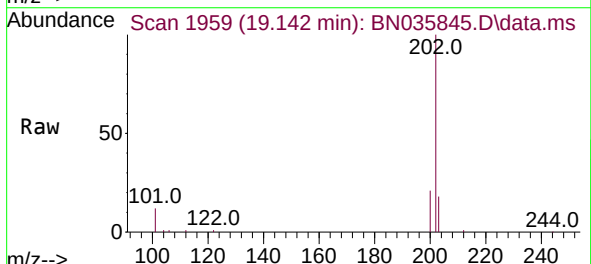
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

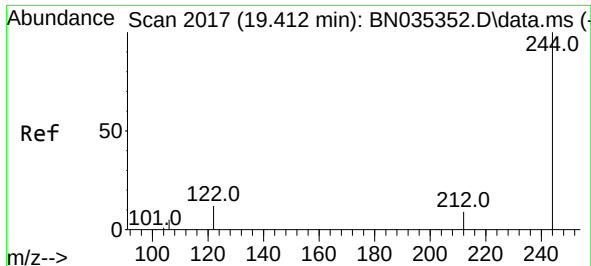
Tgt Ion:240 Resp: 9932
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9#
236 28.9 22.9 34.3



#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

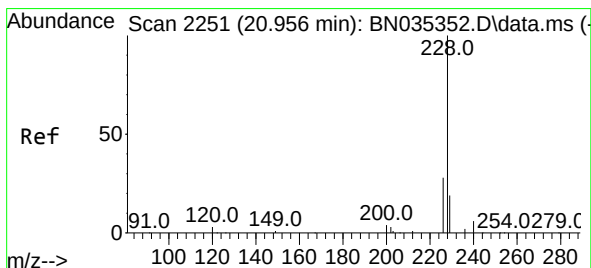
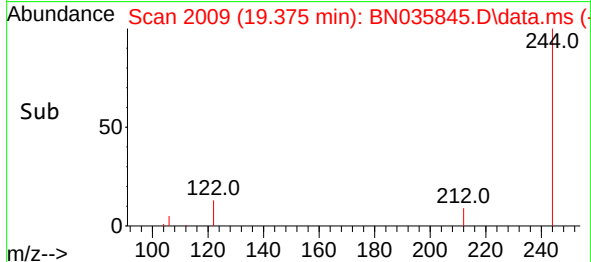
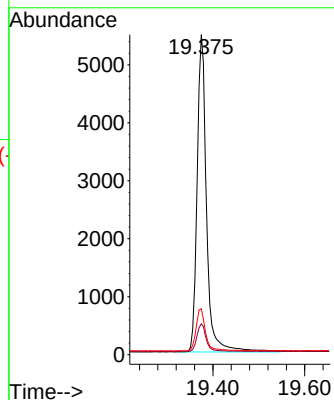
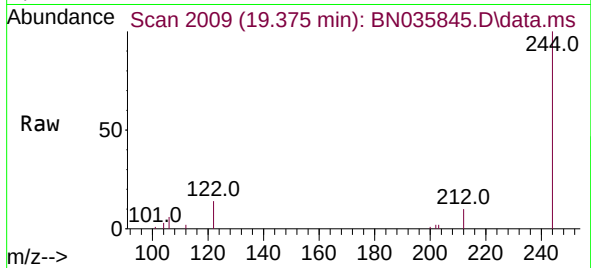




#31
 Terphenyl-d14
 Concen: 0.397 ng
 RT: 19.375 min Scan# 2017
 Delta R.T. -0.014 min
 Lab File: BN035845.D
 Acq: 26 Dec 2024 09:58

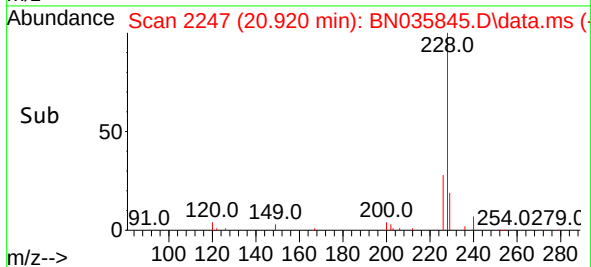
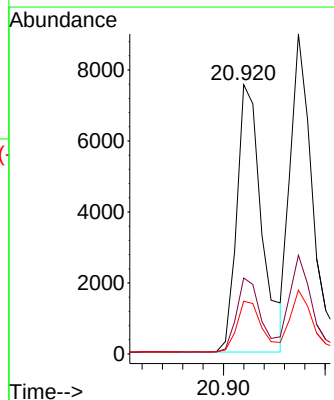
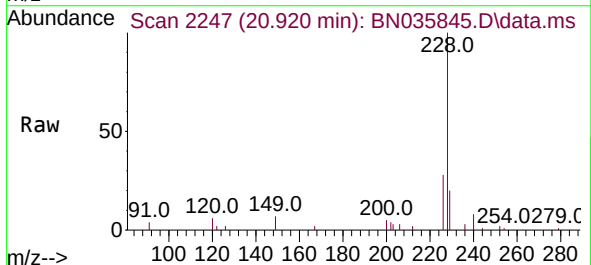
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

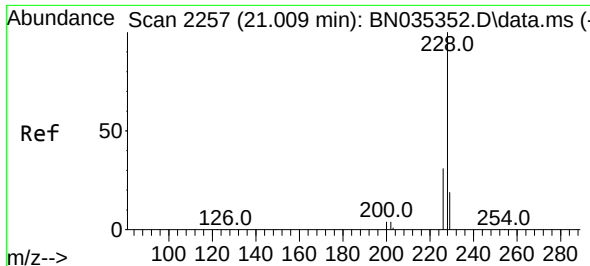
Tgt Ion:244 Resp: 7783
 Ion Ratio Lower Upper
 244 100
 212 9.7 8.1 12.1
 122 14.4 10.3 15.5



#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

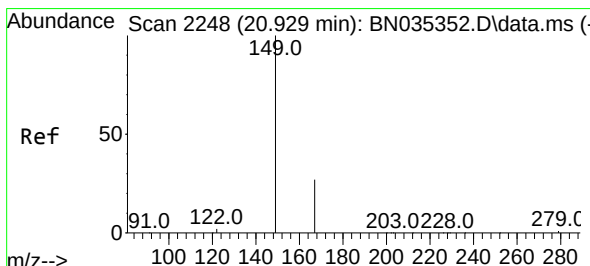
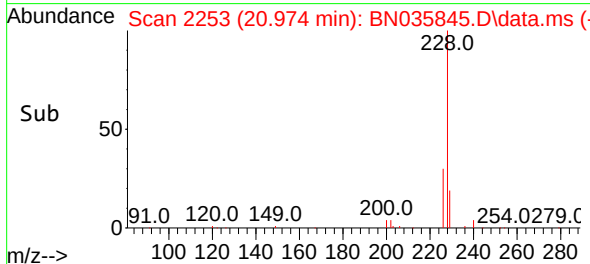
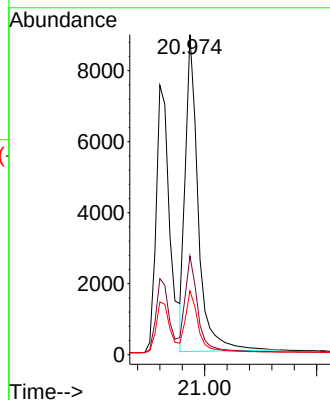
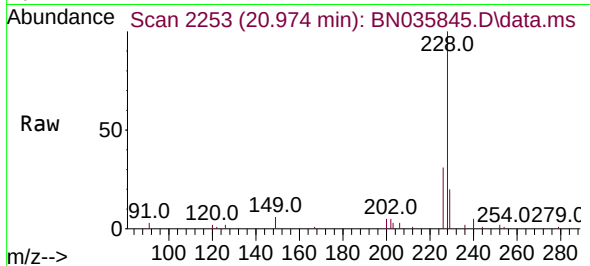
Tgt Ion:228 Resp: 14214

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

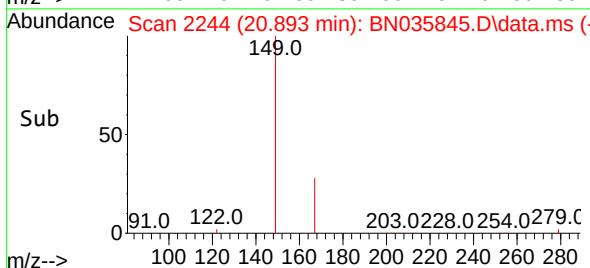
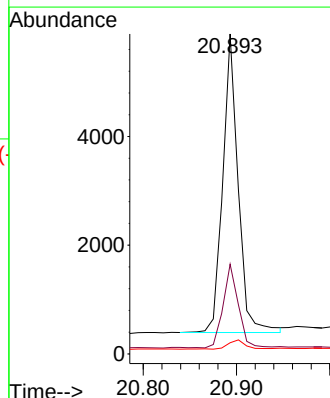
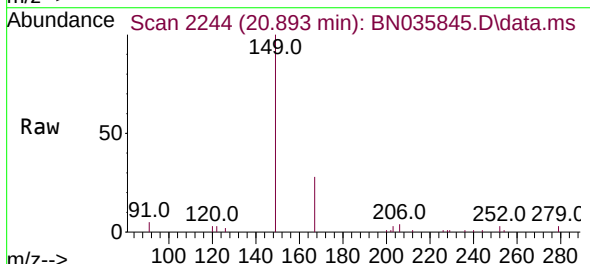
Tgt Ion:149 Resp: 6282

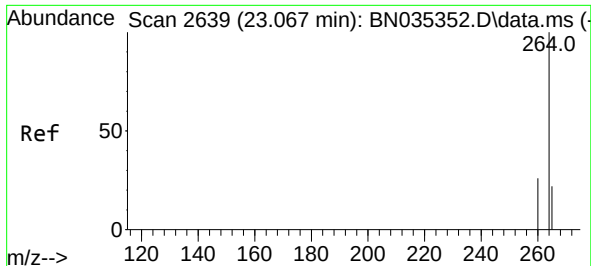
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

279 3.4 2.7 4.1

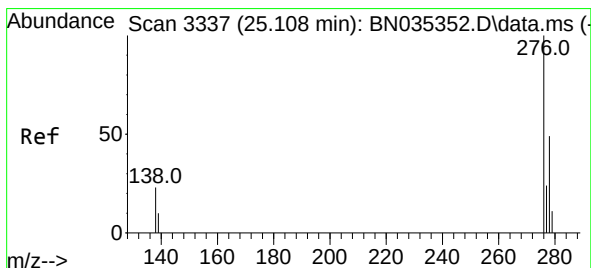
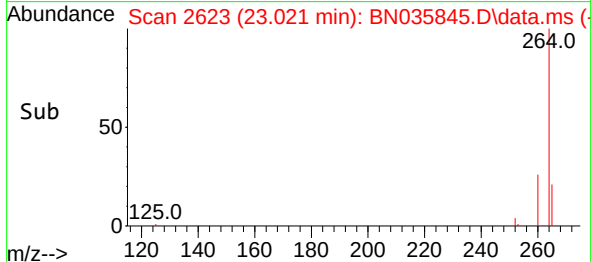
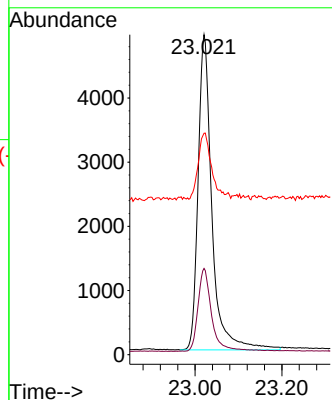
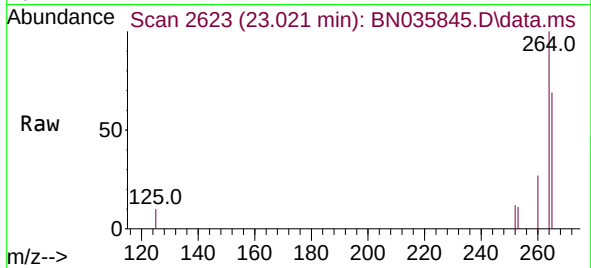




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.021 min Scan# 2623
 Delta R.T. -0.021 min
 Lab File: BN035845.D
 Acq: 26 Dec 2024 09:58

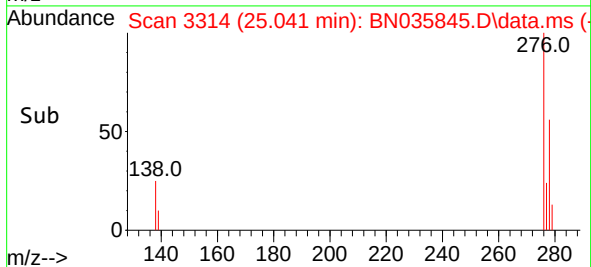
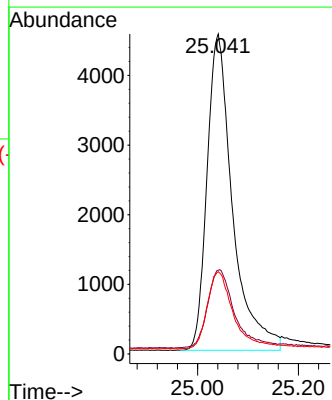
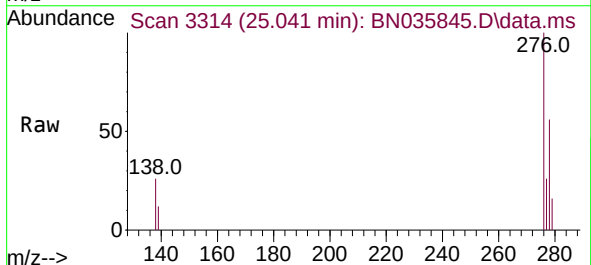
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

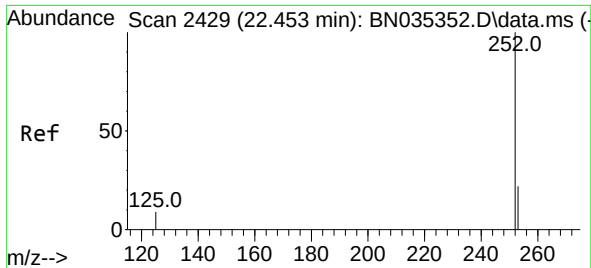
Tgt Ion:264 Resp: 10817
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.4 32.2
 265 69.2 40.2 60.4#



#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

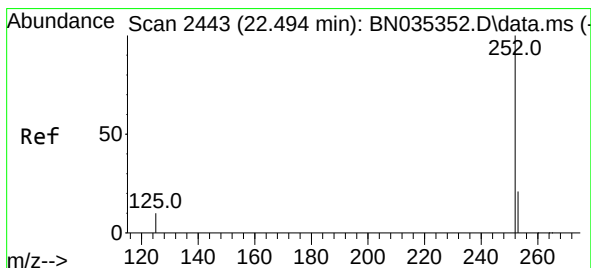
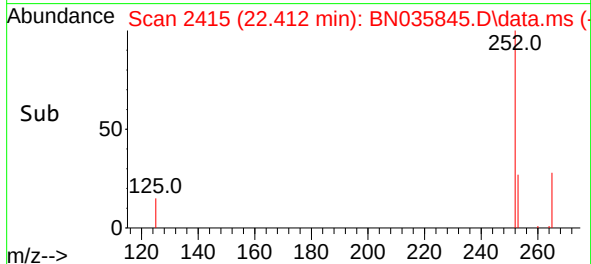
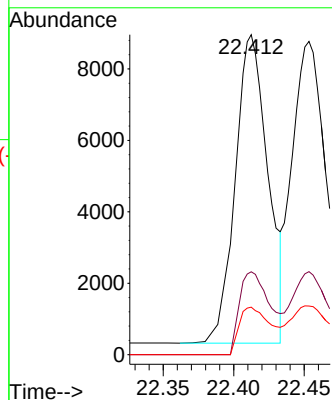
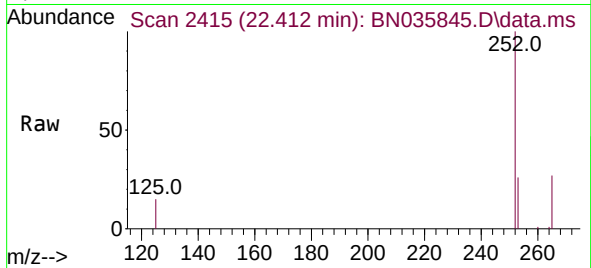




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

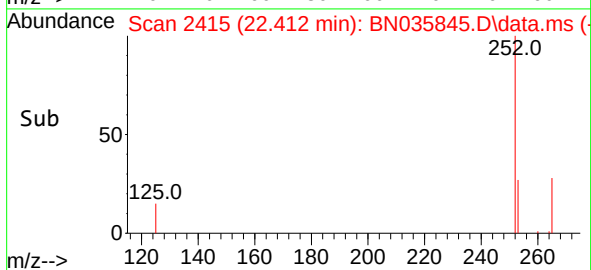
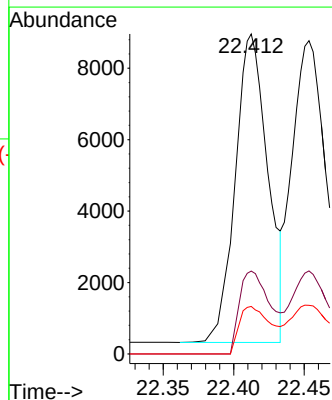
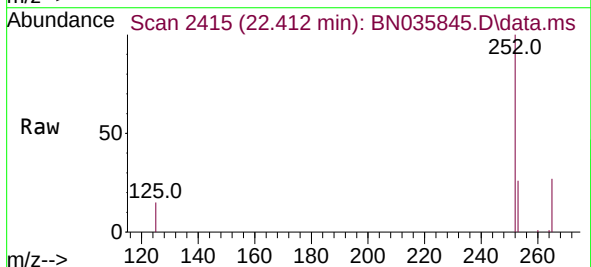
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

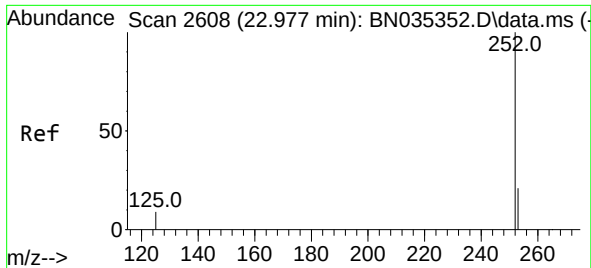
Tgt Ion:252 Resp: 19565
Ion Ratio Lower Upper
252 100
253 25.9 19.6 29.4
125 14.9 9.6 14.4#



#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

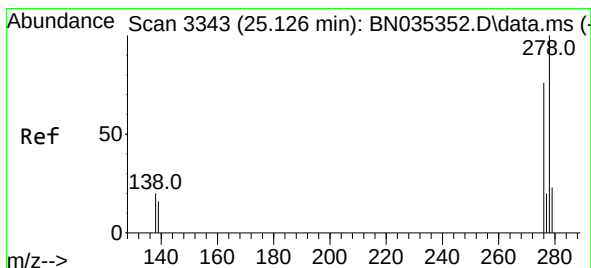
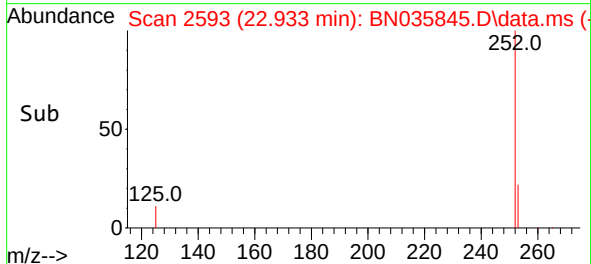
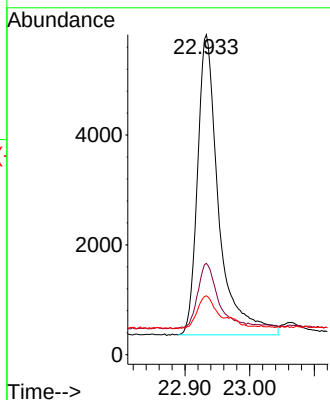
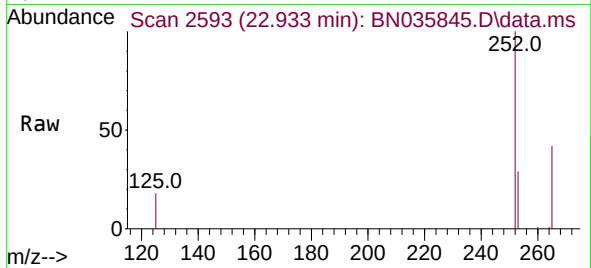




#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

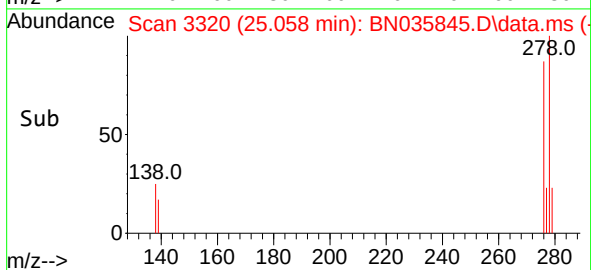
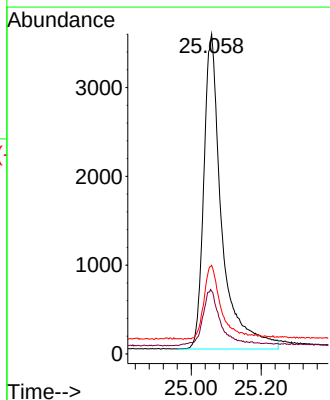
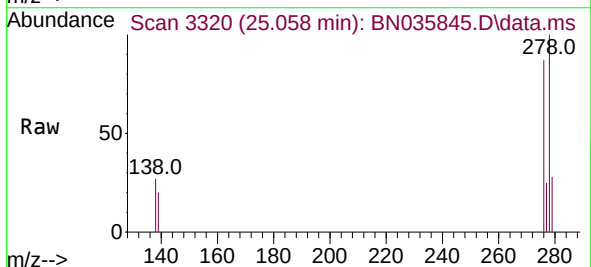
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

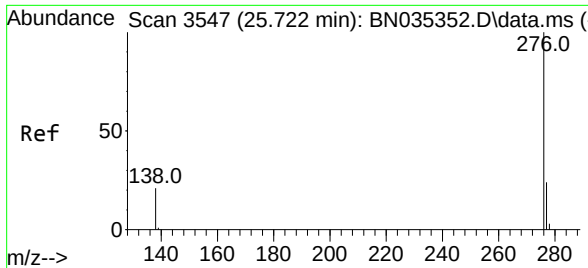
Tgt Ion:252 Resp: 12458
Ion Ratio Lower Upper
252 100
253 28.6 20.2 30.4
125 18.4 10.9 16.3#



#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

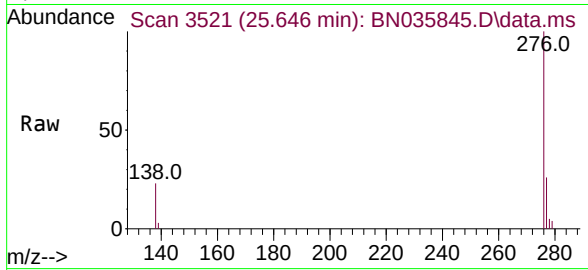
Tgt Ion:278 Resp: 12678
Ion Ratio Lower Upper
278 100
139 19.7 14.2 21.4
279 27.7 20.5 30.7





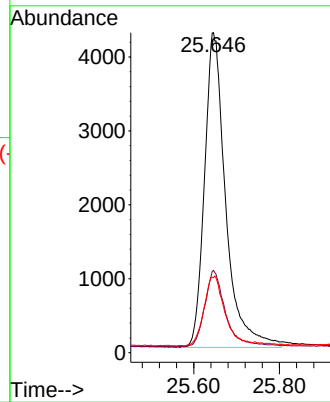
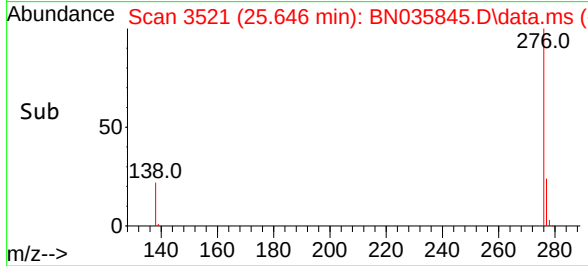
#41
 Benzo(g,h,i)perylene
 Concen: 0.419 ng
 RT: 25.646 min Scan# 31
 Delta R.T. -0.032 min
 Lab File: BN035845.D
 Acq: 26 Dec 2024 09:58

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 : BN035857.D
 Acq On : 26 Dec 2024 17:18
 Operator : RC/JU
 Sample : P5282-01DL 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212DL

Quant Time: Dec 27 00:42:00 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)

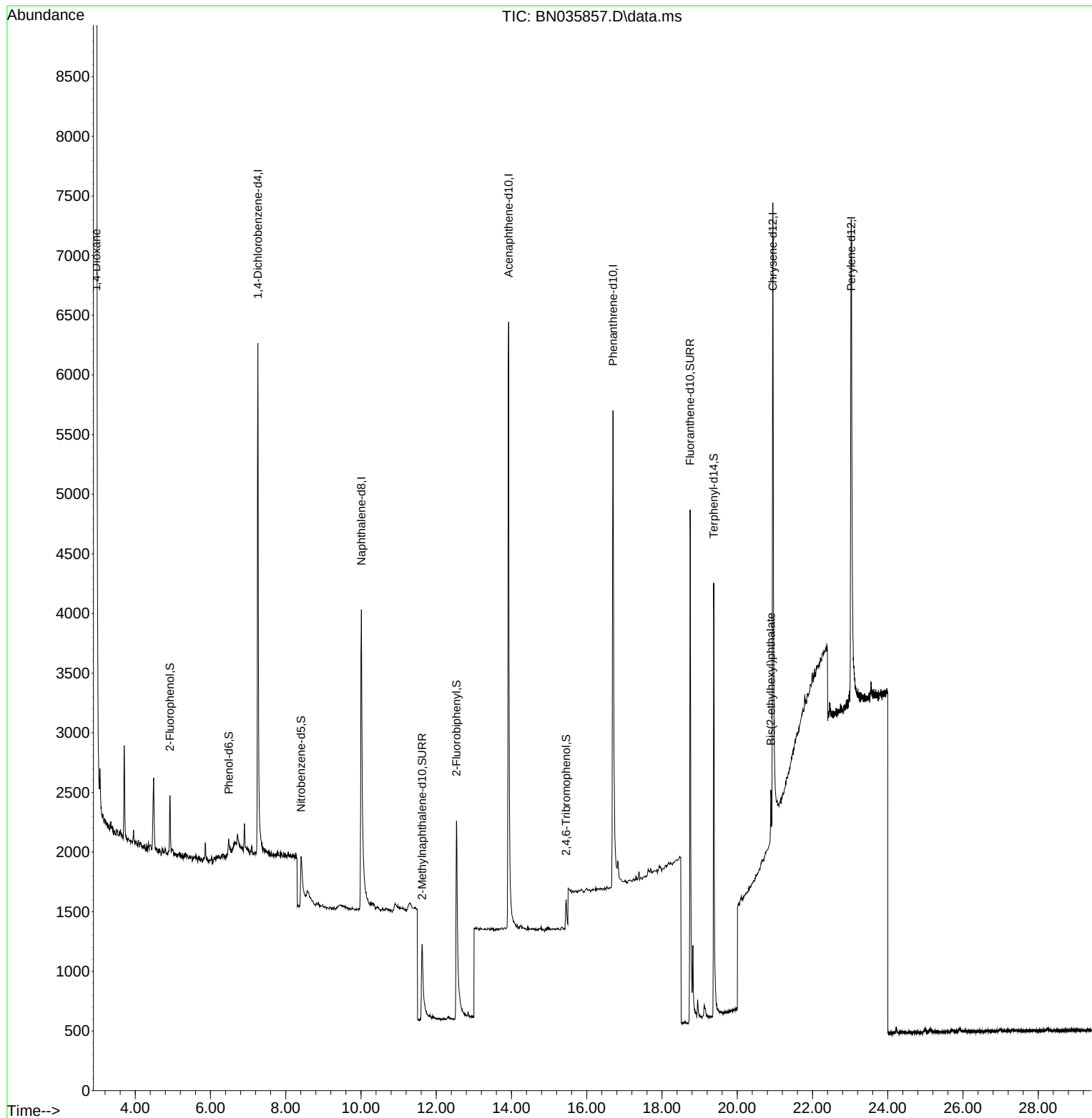
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2631	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	5958	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	3986	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8604	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7270	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7223	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	467	0.071	ng	-0.01
5) Phenol-d6	6.484	99	239	0.030	ng	0.00
8) Nitrobenzene-d5	8.408	82	1135	0.312	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	1980	0.212	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	352	0.124	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	3156	0.209	ng	0.00
27) Fluoranthene-d10	18.747	212	6468	0.265	ng	-0.01
31) Terphenyl-d14	19.375	244	4696	0.327	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	2.967	88	8292	3.297	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	476	0.047	ng	# 94

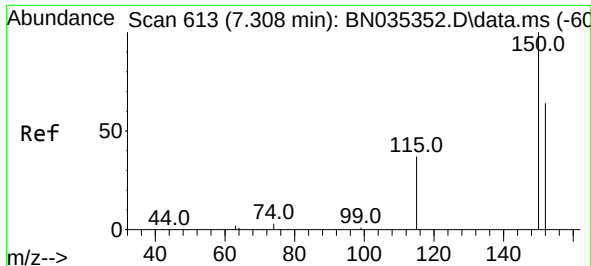
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035857.D
Acq On : 26 Dec 2024 17:18
Operator : RC/JU
Sample : P5282-01DL 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

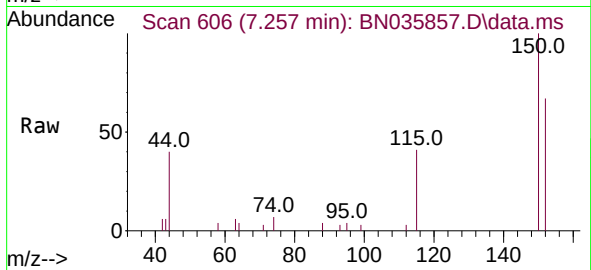
Quant Time: Dec 27 00:42:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



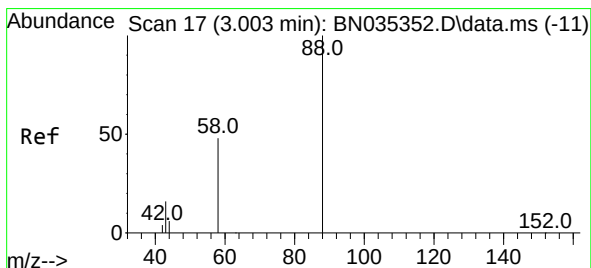
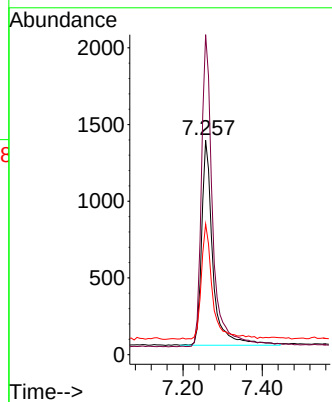
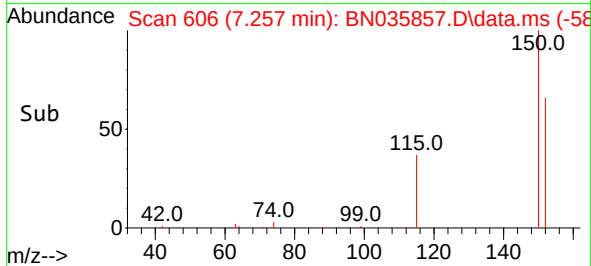


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035857.D
 Acq: 26 Dec 2024 17:18

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20241212DL

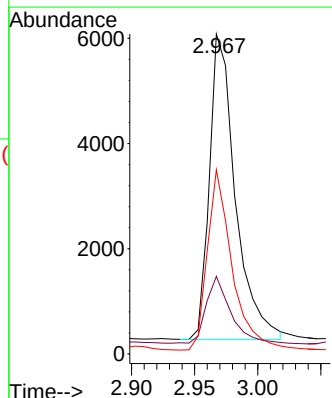
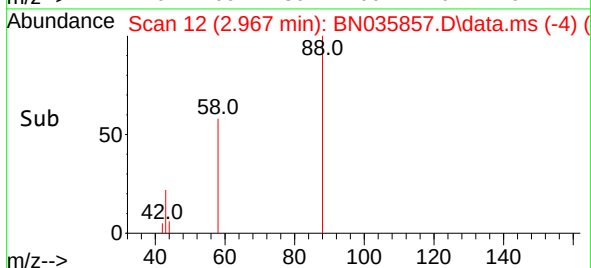
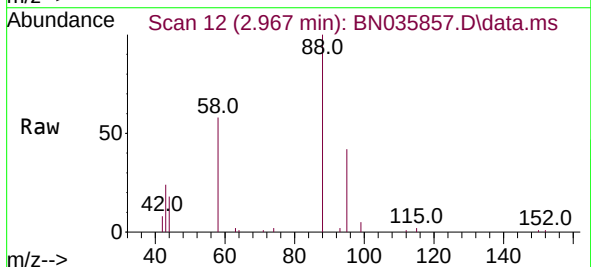


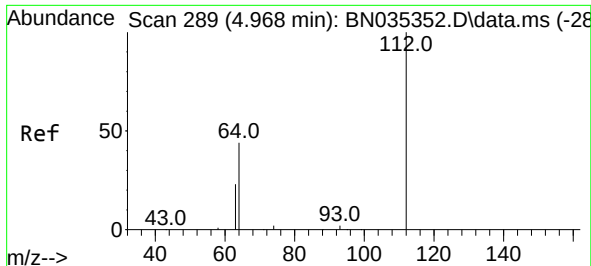
Tgt Ion:152 Resp: 2631
 Ion Ratio Lower Upper
 152 100
 150 149.3 124.0 186.0
 115 61.0 49.6 74.4



#2
 1,4-Dioxane
 Concen: 3.297 ng
 RT: 2.967 min Scan# 12
 Delta R.T. -0.015 min
 Lab File: BN035857.D
 Acq: 26 Dec 2024 17:18

Tgt Ion: 88 Resp: 8292
 Ion Ratio Lower Upper
 88 100
 43 20.4 17.2 25.8
 58 56.0 44.5 66.7

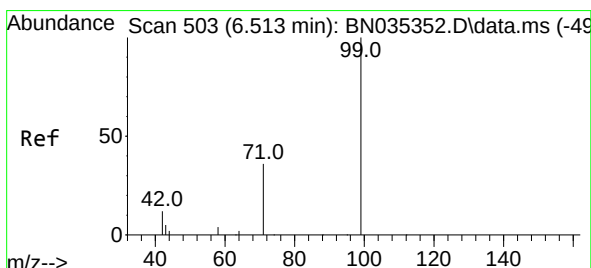
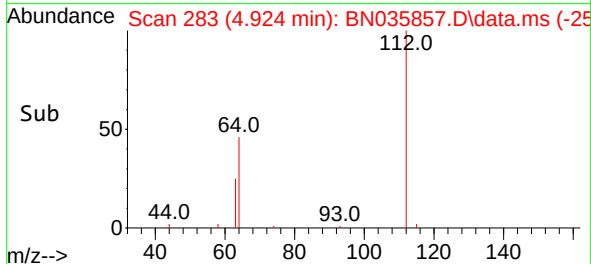
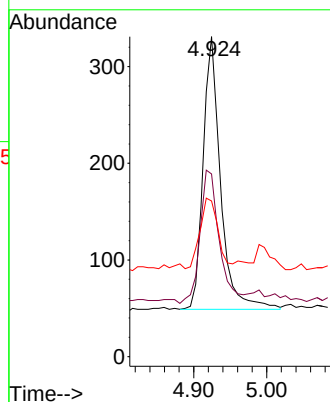
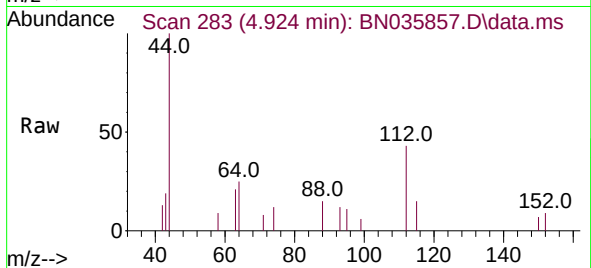




#4
2-Fluorophenol
Concen: 0.071 ng
RT: 4.924 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

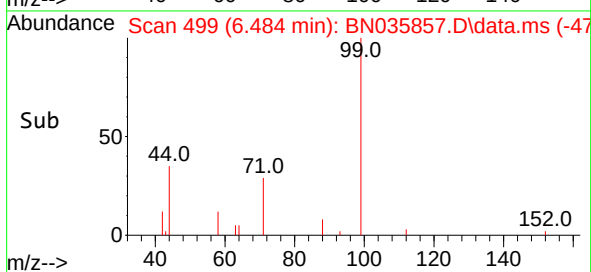
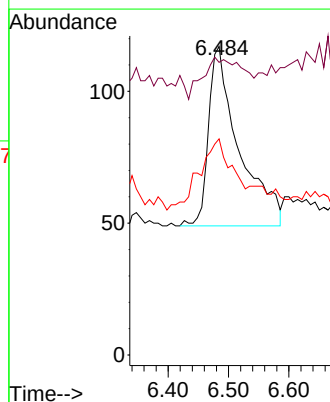
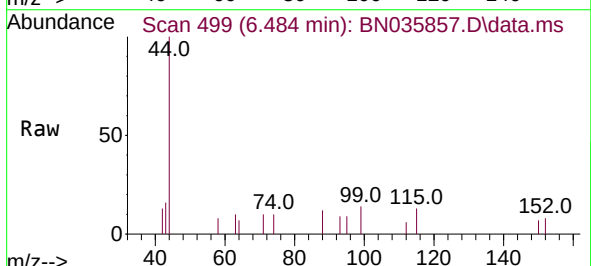
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

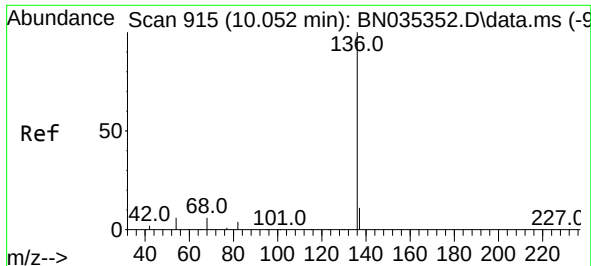
Tgt Ion:112 Resp: 467
Ion Ratio Lower Upper
112 100
64 54.2 39.8 59.8
63 28.9 21.0 31.6



#5
Phenol-d6
Concen: 0.030 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion: 99 Resp: 239
Ion Ratio Lower Upper
99 100
42 31.0 11.4 17.2#
71 44.4 29.3 43.9#

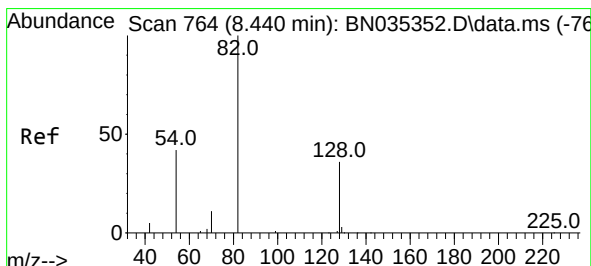
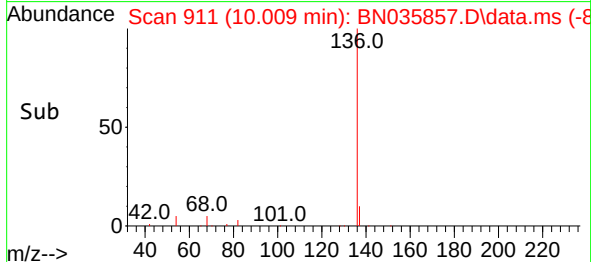
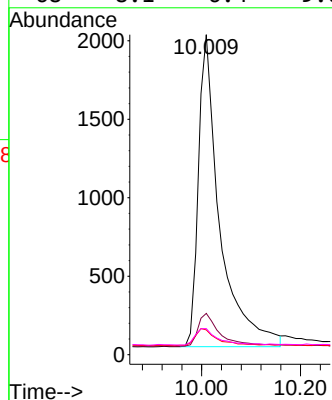
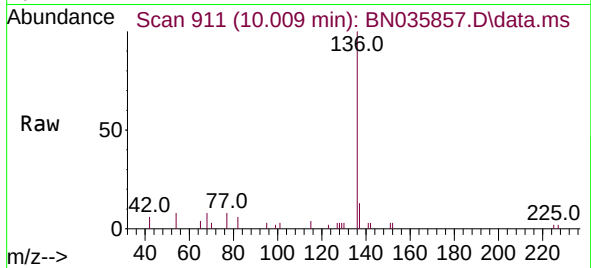




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

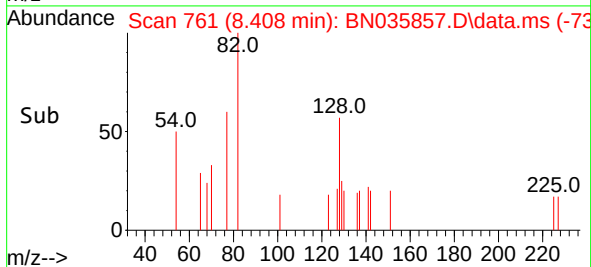
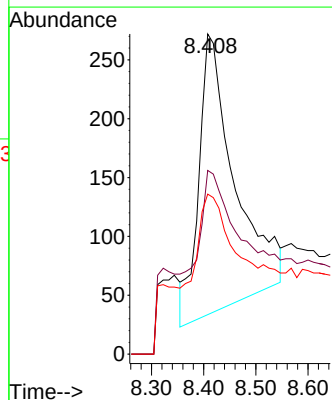
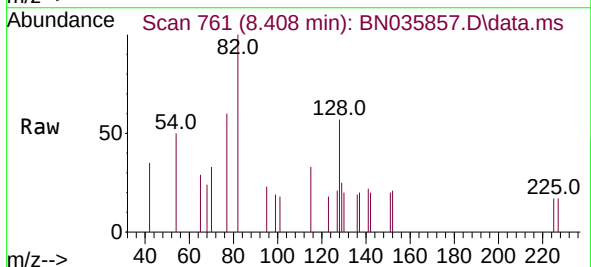
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

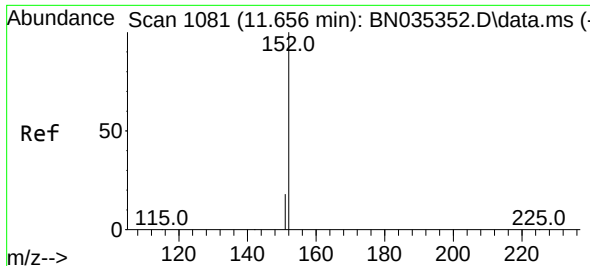
Tgt Ion:136	Resp:	5958
Ion	Ratio	Lower Upper
136	100	
137	12.9	10.2 15.2
54	7.7	6.1 9.1
68	8.1	6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.312 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion: 82	Resp:	1135
Ion	Ratio	Lower Upper
82	100	
128	57.4	33.4 50.0#
54	50.0	36.7 55.1

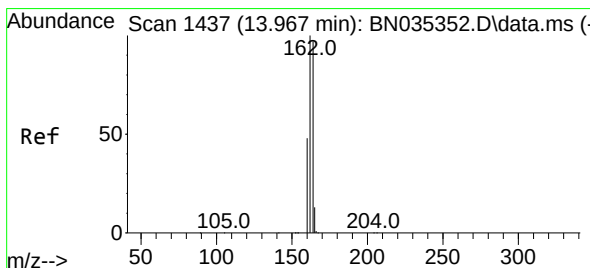
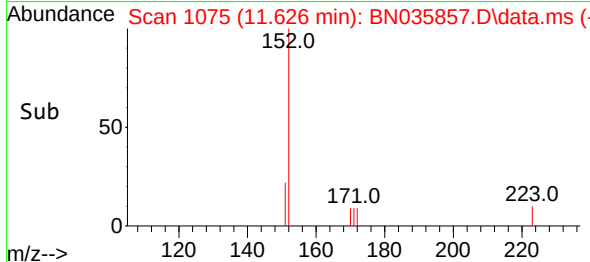
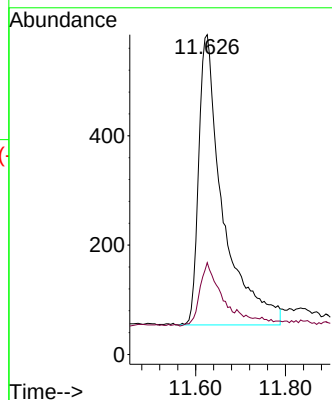
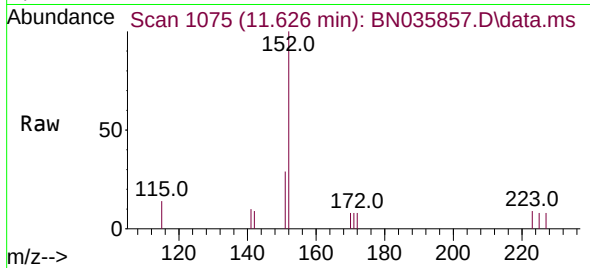




#11
2-Methylnaphthalene-d10
Concen: 0.212 ng
RT: 11.626 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

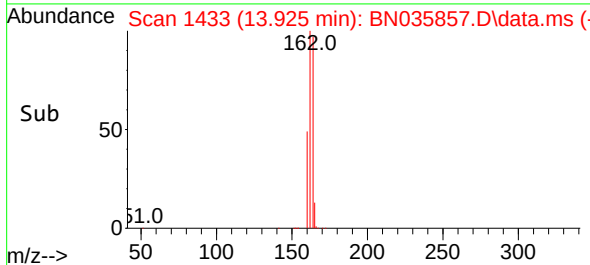
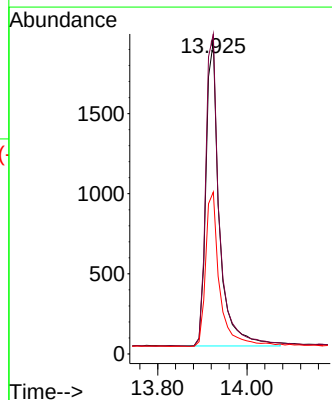
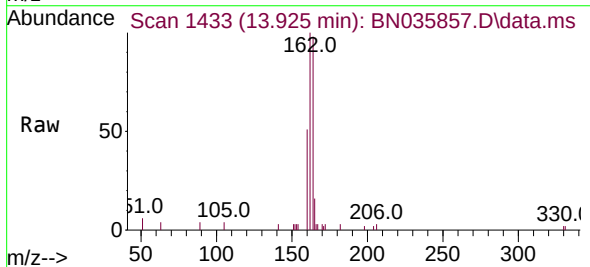
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

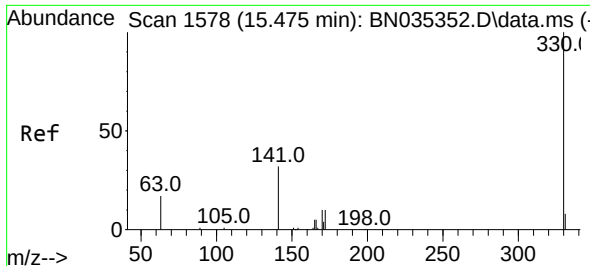
Tgt Ion:152 Resp: 1980
Ion Ratio Lower Upper
152 100
151 18.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion:164 Resp: 3986
Ion Ratio Lower Upper
164 100
162 102.5 82.2 123.2
160 51.8 40.1 60.1

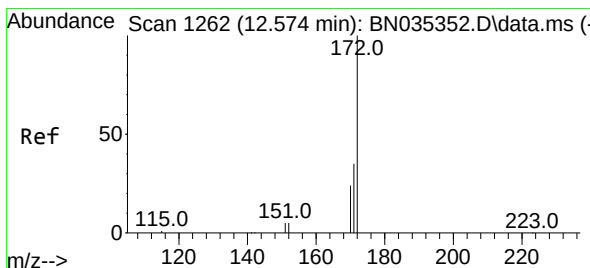
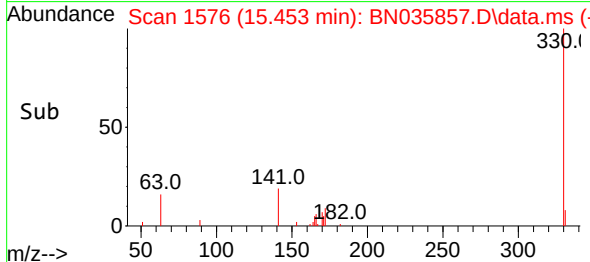
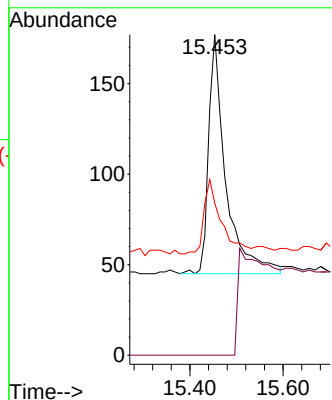
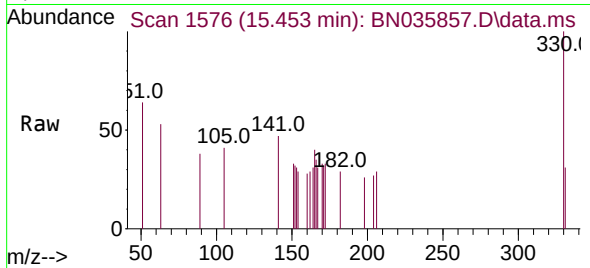




#14
2,4,6-Tribromophenol
Concen: 0.124 ng
RT: 15.453 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

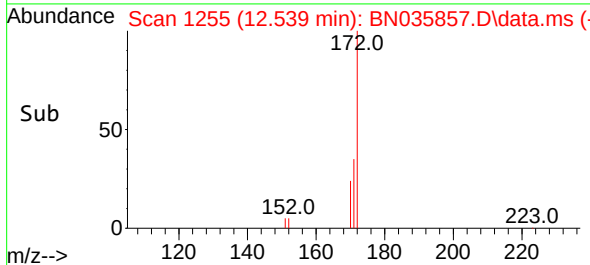
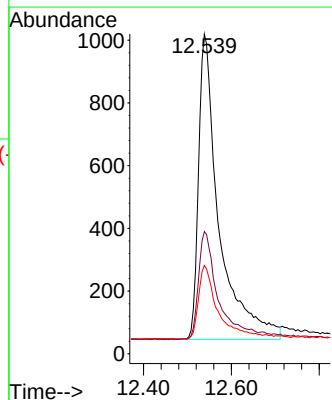
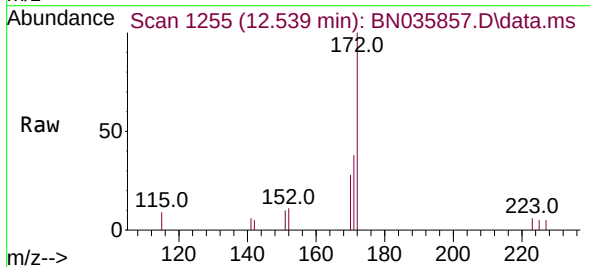
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

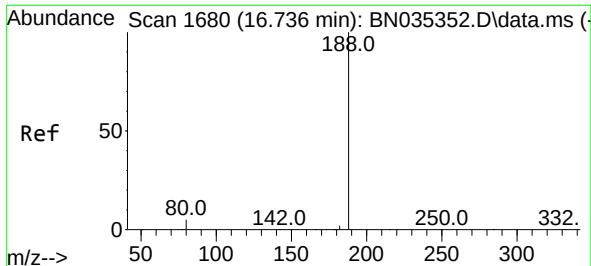
Tgt Ion:330 Resp: 352
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.4 26.6 40.0



#15
2-Fluorobiphenyl
Concen: 0.209 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion:172 Resp: 3156
Ion Ratio Lower Upper
172 100
171 38.2 29.0 43.4
170 27.6 19.8 29.8

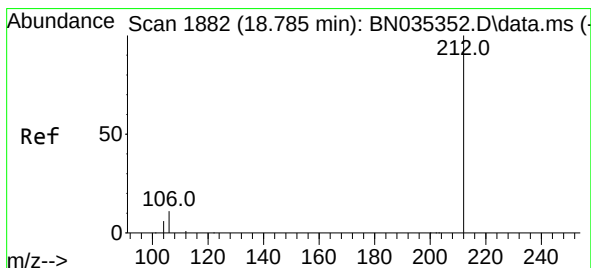
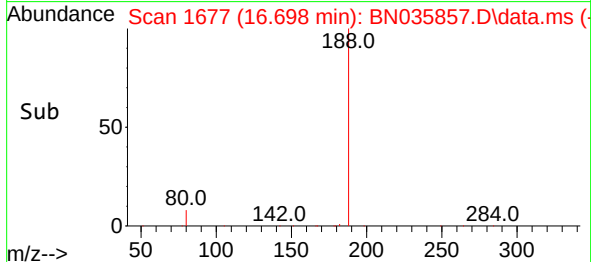
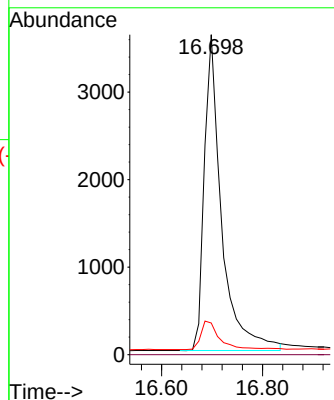
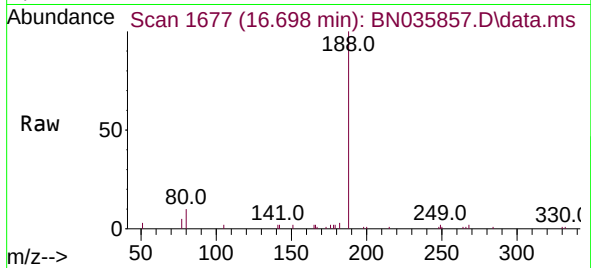




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

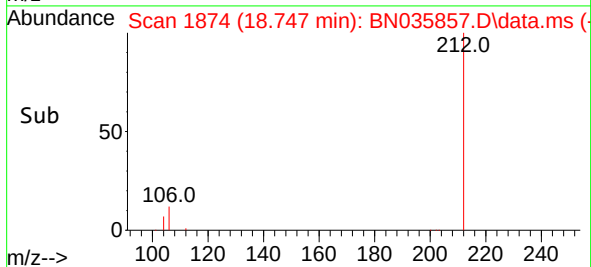
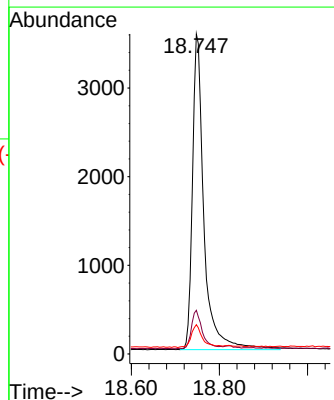
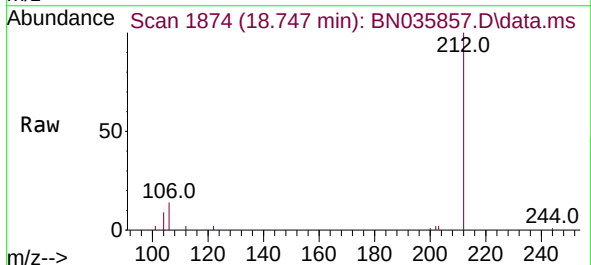
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

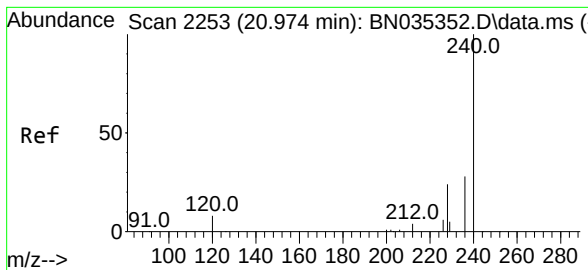
Tgt Ion:188 Resp: 8604
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.9 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.265 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion:212 Resp: 6468
Ion Ratio Lower Upper
212 100
106 11.6 9.2 13.8
104 7.1 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: BN035857.D

Acq: 26 Dec 2024 17:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241212DL

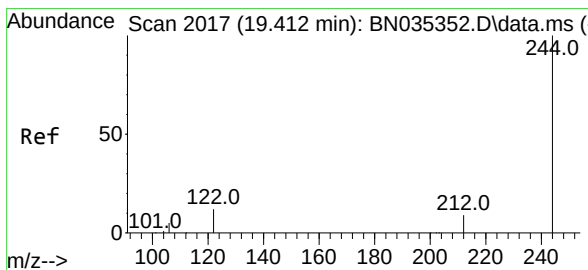
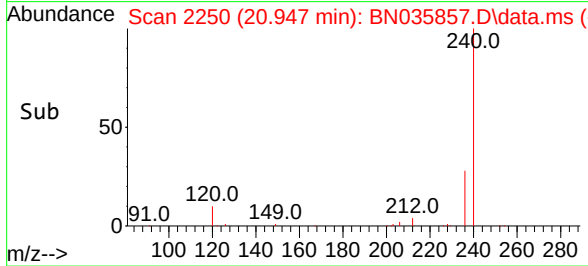
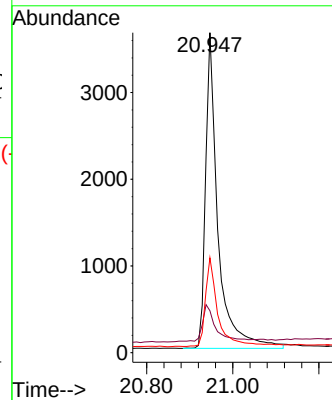
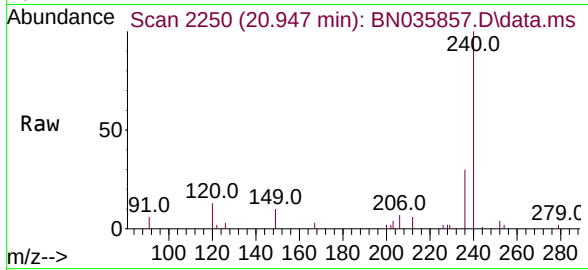
Tgt Ion:240 Resp: 7270

Ion Ratio Lower Upper

240 100

120 13.1 7.9 11.9#

236 29.7 22.9 34.3



#31

Terphenyl-d14

Concen: 0.327 ng

RT: 19.375 min Scan# 2009

Delta R.T. -0.014 min

Lab File: BN035857.D

Acq: 26 Dec 2024 17:18

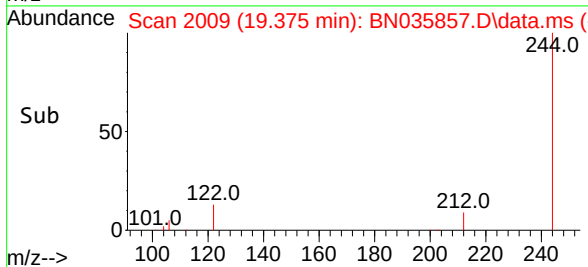
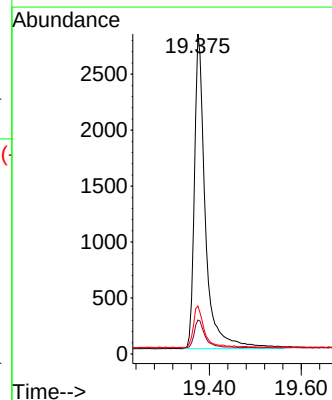
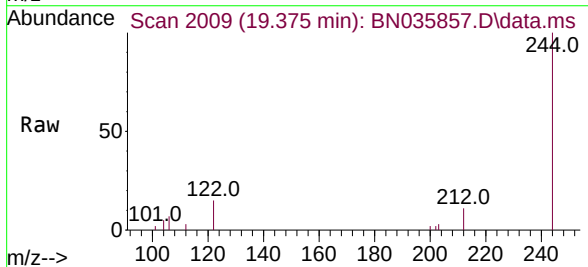
Tgt Ion:244 Resp: 4696

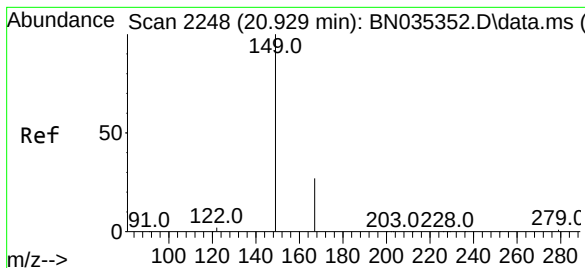
Ion Ratio Lower Upper

244 100

212 10.6 8.1 12.1

122 15.0 10.3 15.5

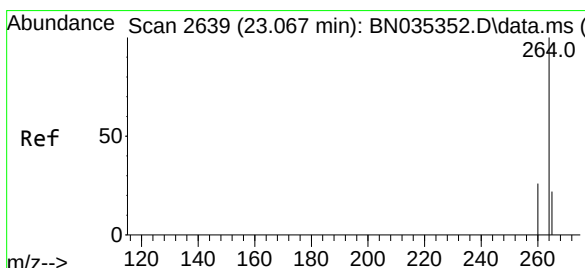
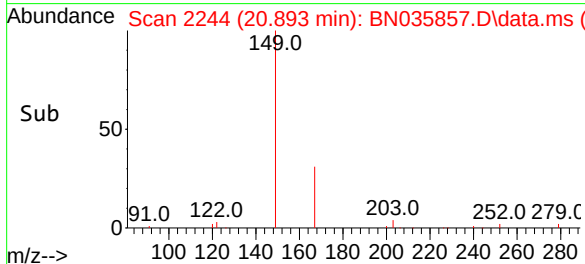
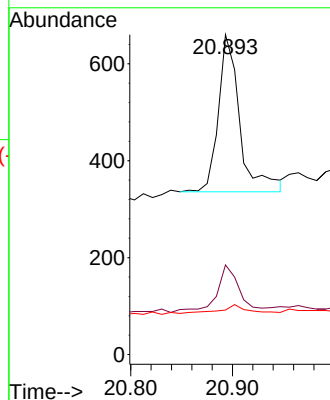
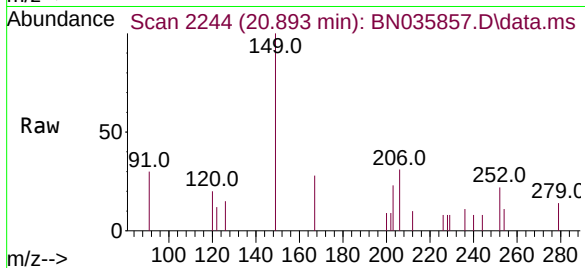




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.047 ng
RT: 20.893 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035857.D
Acq: 26 Dec 2024 17:18

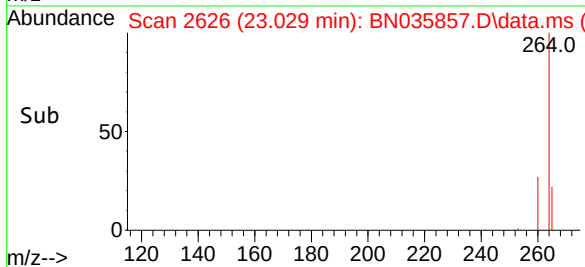
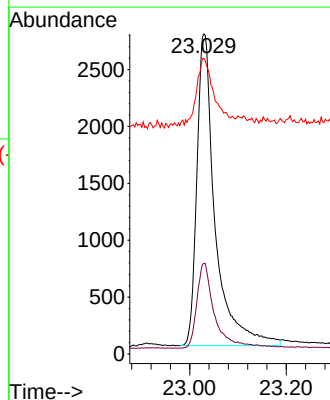
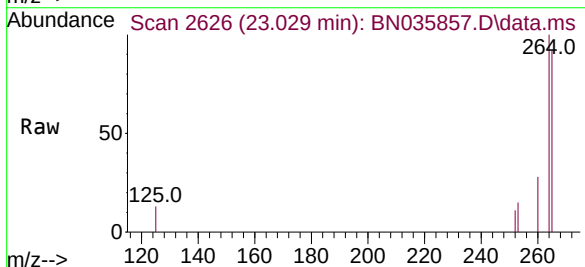
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241212DL

Tgt Ion:149 Resp: 476
Ion Ratio Lower Upper
149 100
167 25.0 22.2 33.4
279 6.3 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: BN035857.D
Acq: 26 Dec 2024 17:18

Tgt Ion:264 Resp: 7223
Ion Ratio Lower Upper
264 100
260 28.4 21.4 32.2
265 92.4 40.2 60.4#



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

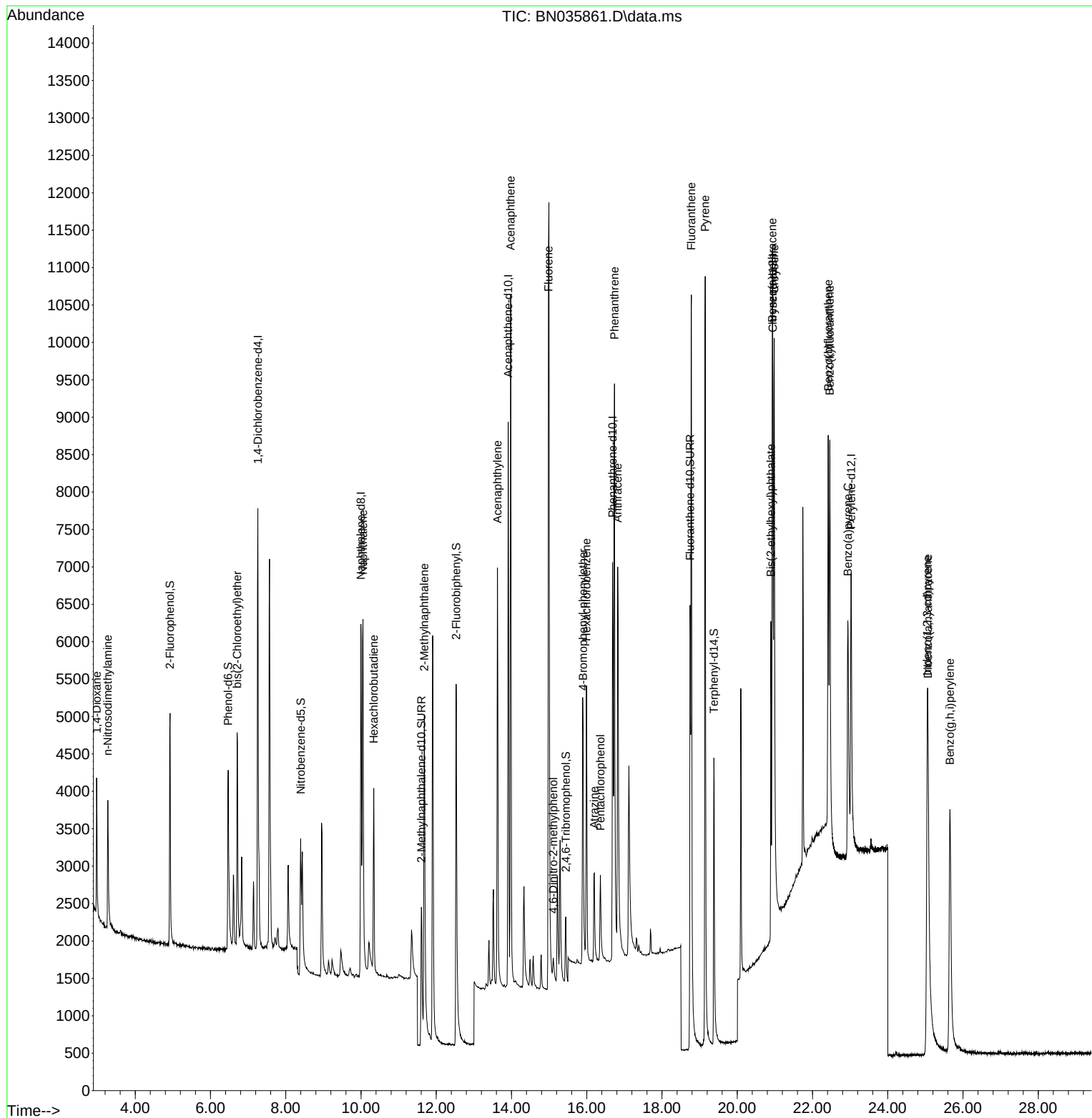
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	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						
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

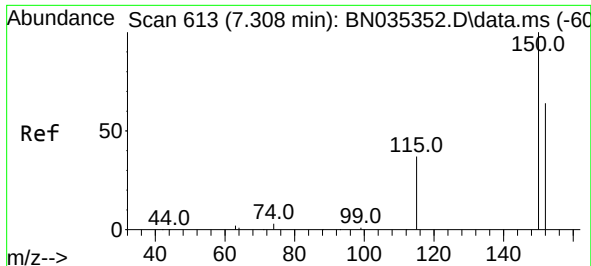
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

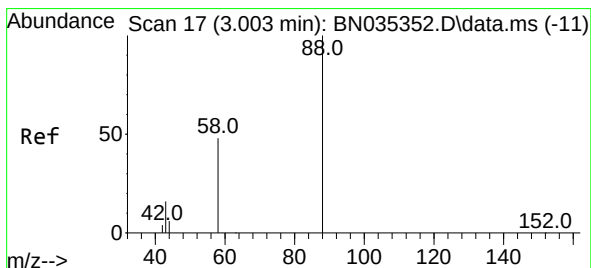
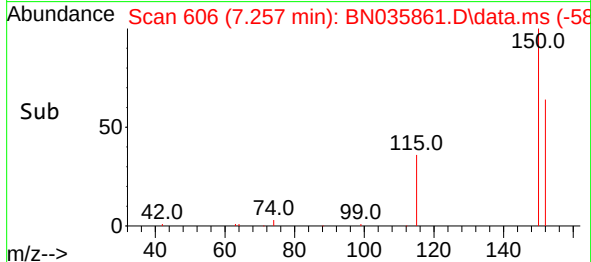
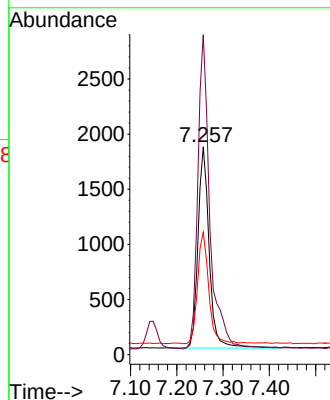
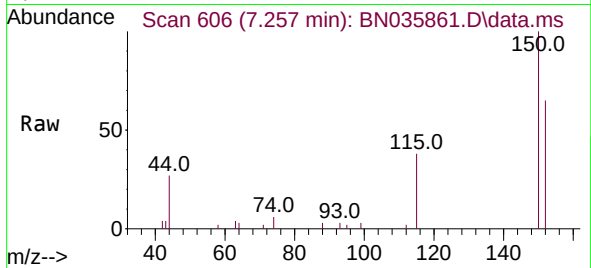




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.257 min Scan# 60
 Delta R.T. -0.015 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

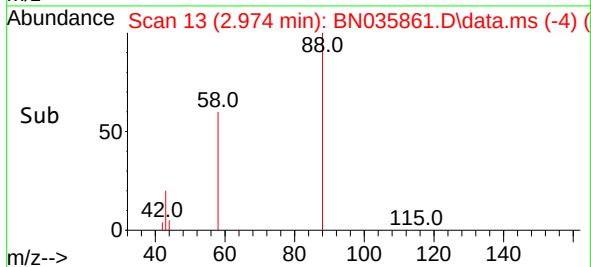
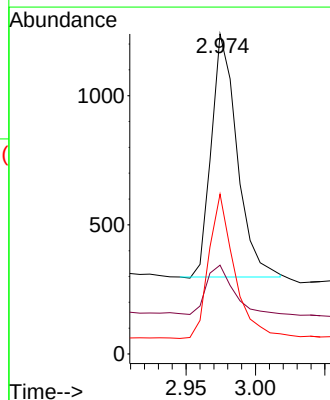
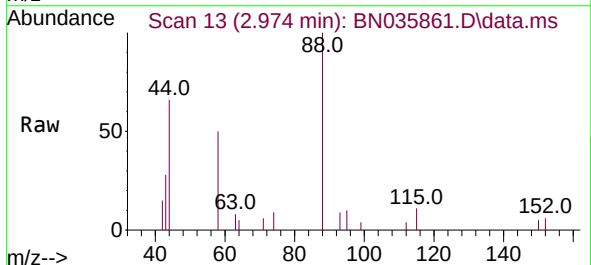
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

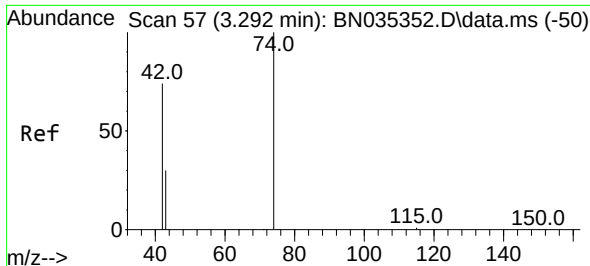
Tgt Ion:152 Resp: 3087
 Ion Ratio Lower Upper
 152 100
 150 154.0 124.0 186.0
 115 58.9 49.6 74.4



#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

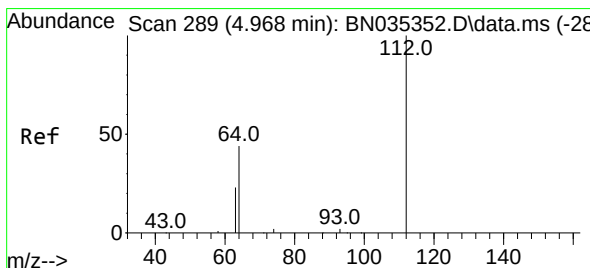
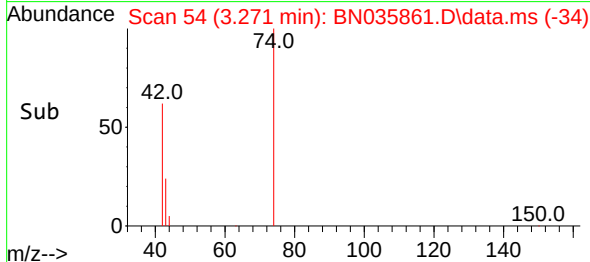
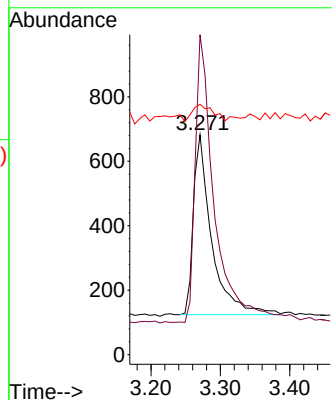
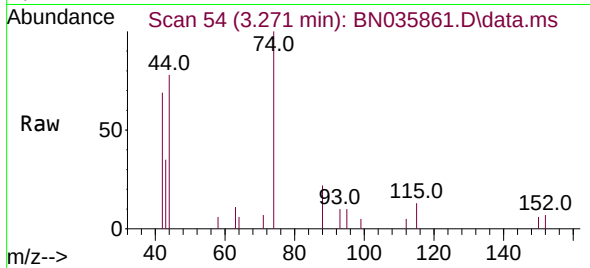




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

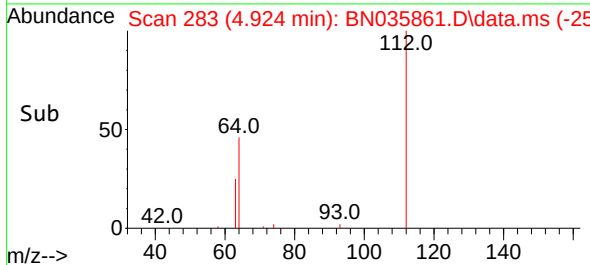
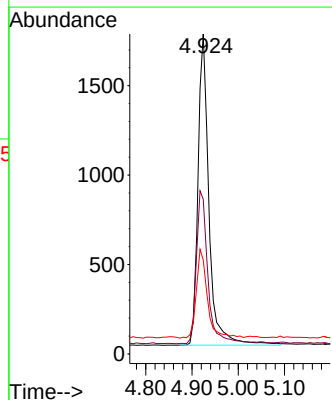
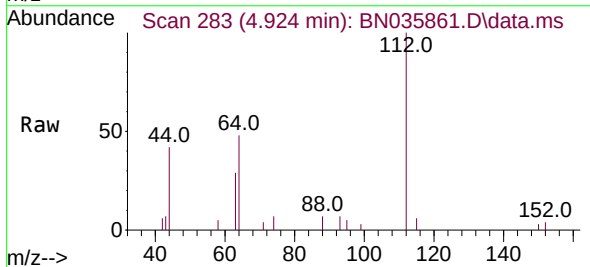
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

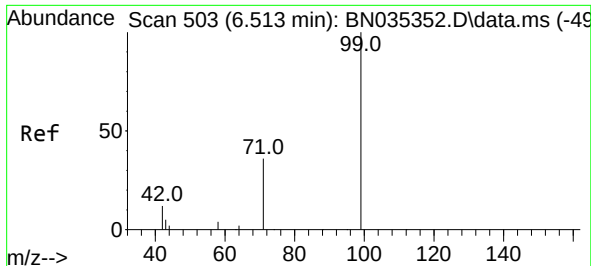
Tgt Ion: 42 Resp: 1021
Ion Ratio Lower Upper
42 100
74 169.1 124.9 187.3
44 10.6 2.2 3.4#



#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

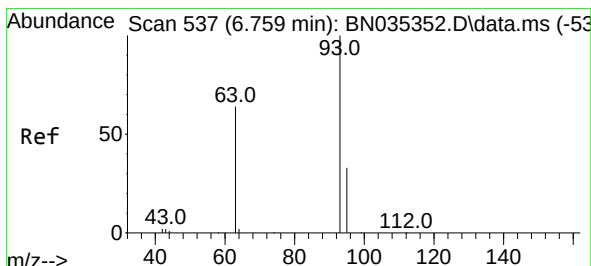
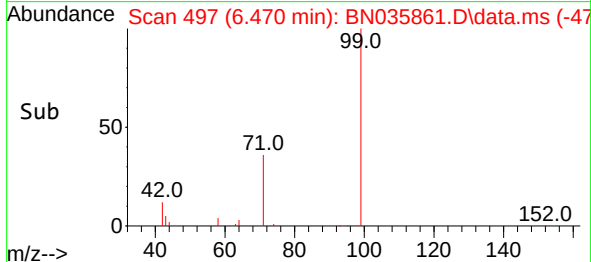
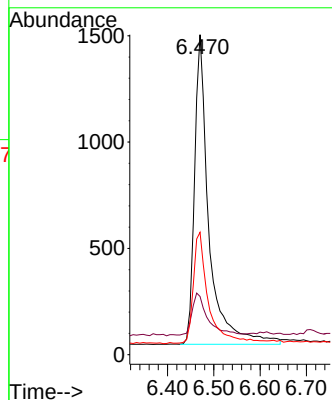
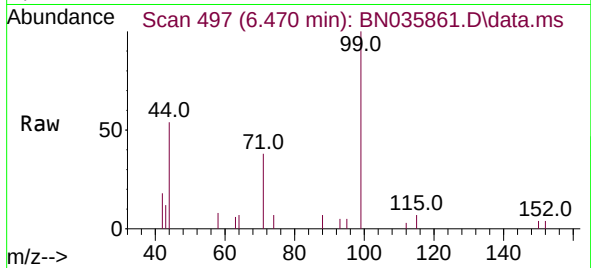




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

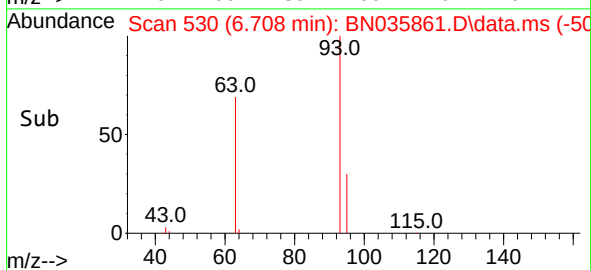
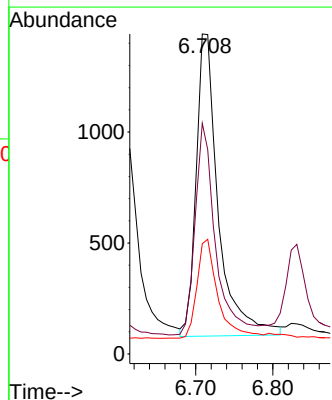
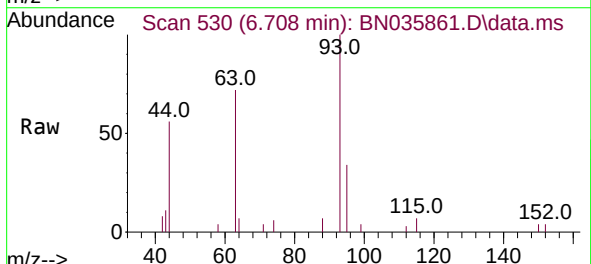
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

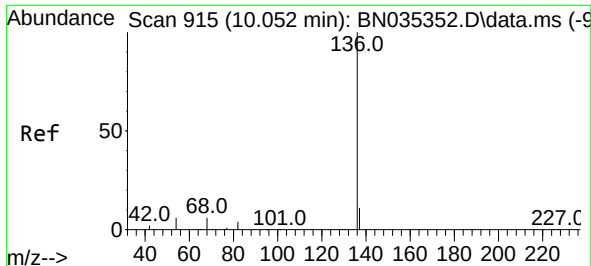
Tgt Ion:	99	Resp:	3155
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9



#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

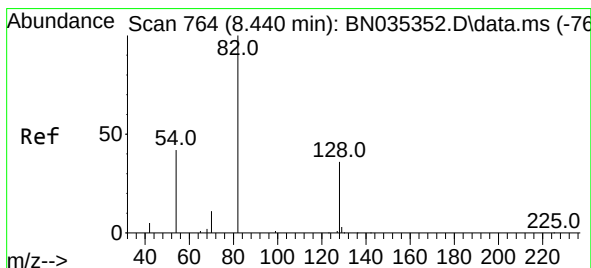
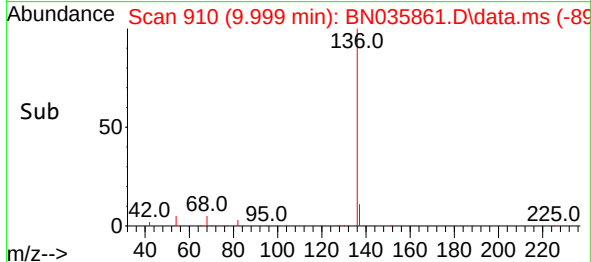
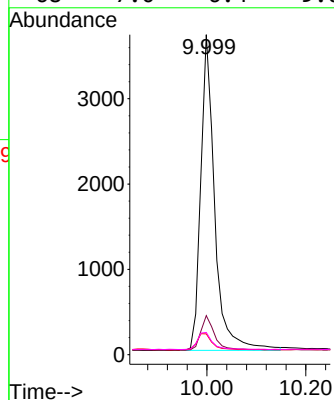
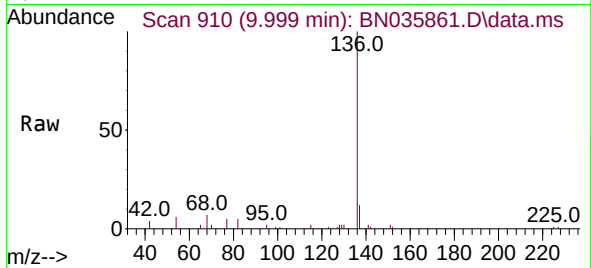




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

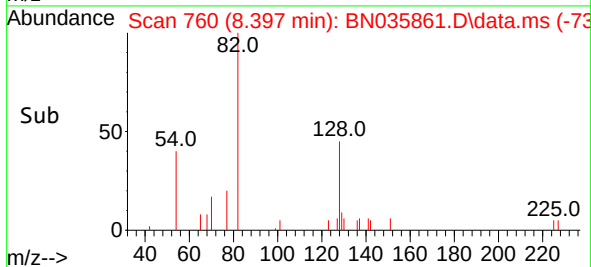
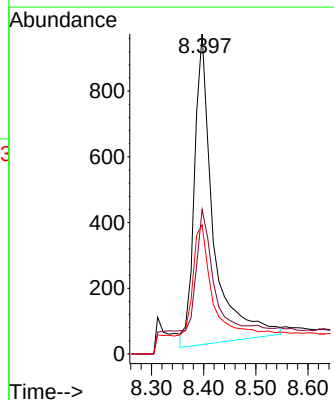
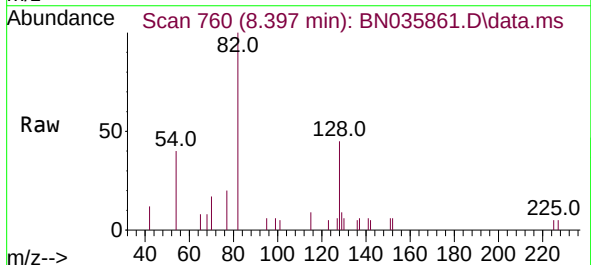
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

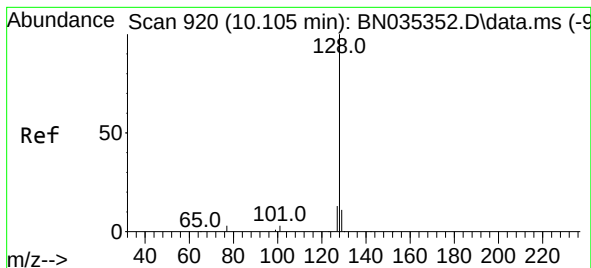
Tgt Ion:136	Resp:	7239
Ion Ratio	Lower	Upper
136	100	
137	12.2	10.2 15.2
54	6.5	6.1 9.1
68	7.0	6.4 9.6



#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

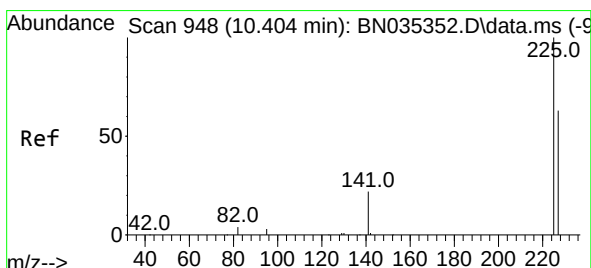
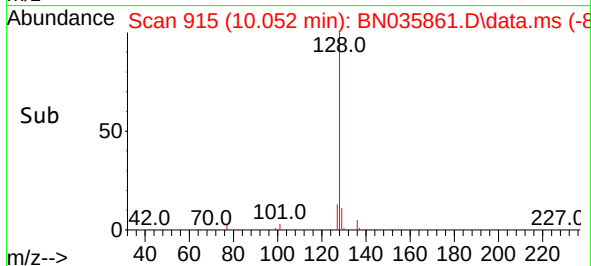
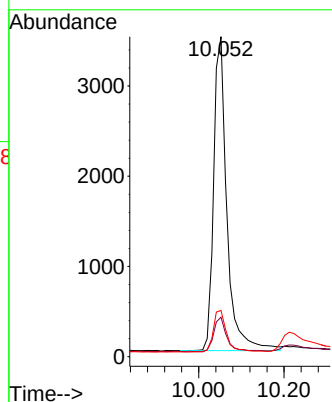
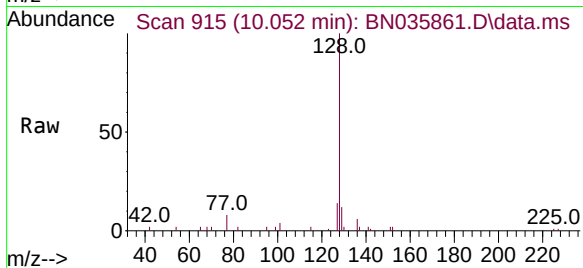
Tgt Ion:128 Resp: 7516

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

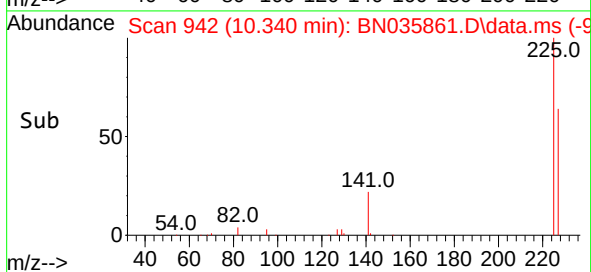
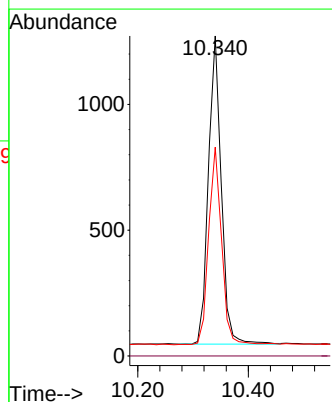
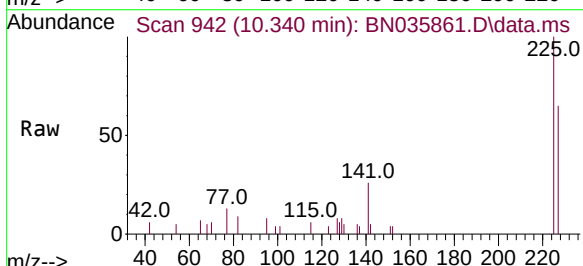
Tgt Ion:225 Resp: 1992

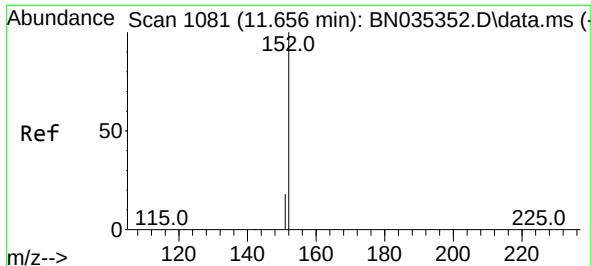
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.7 51.3 76.9

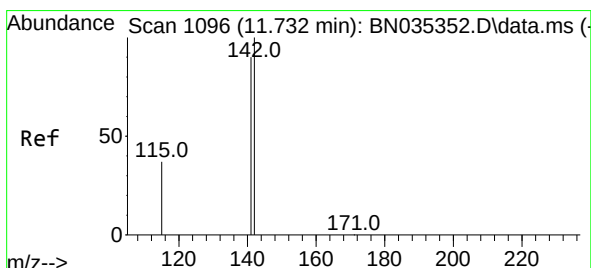
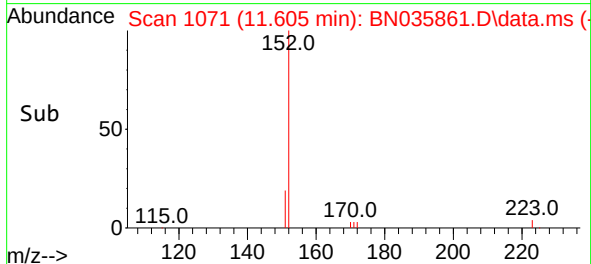
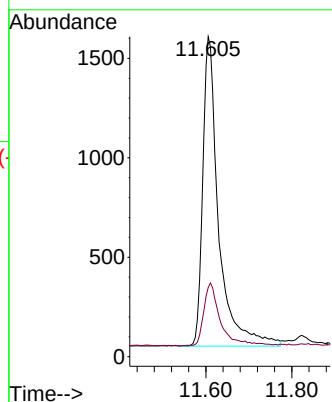
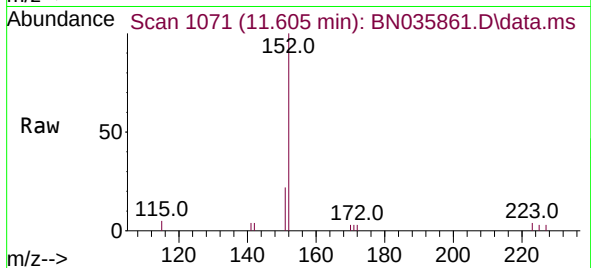




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

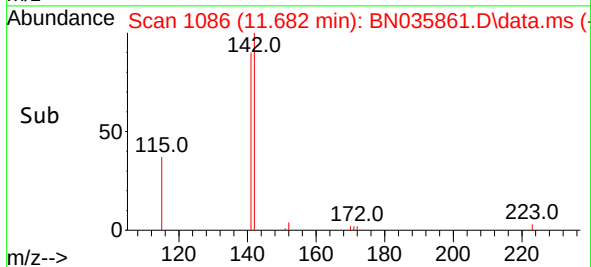
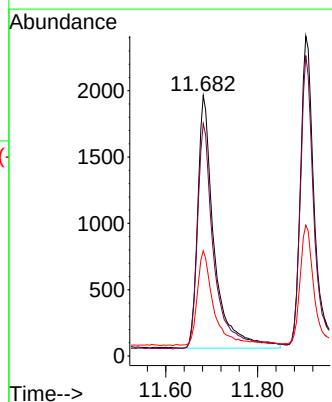
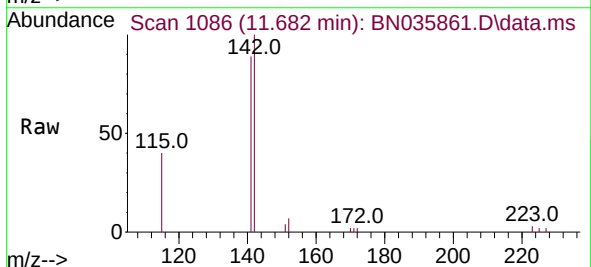
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

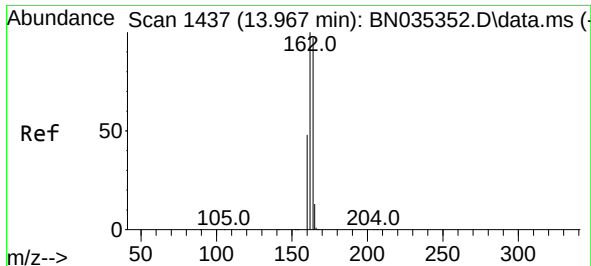
Tgt Ion:152 Resp: 3987
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0



#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

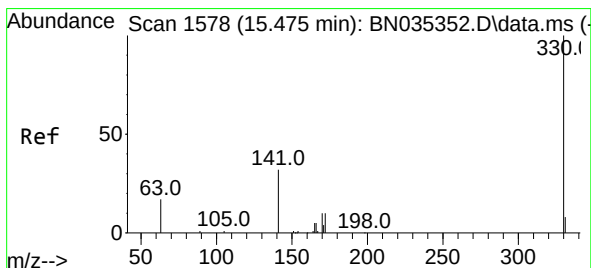
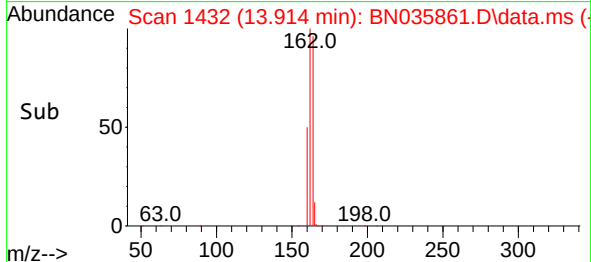
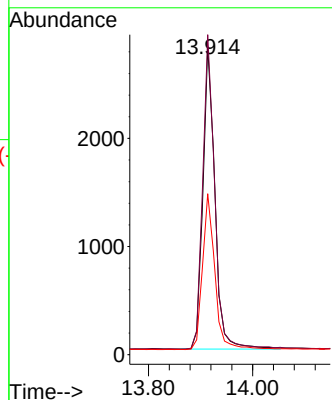
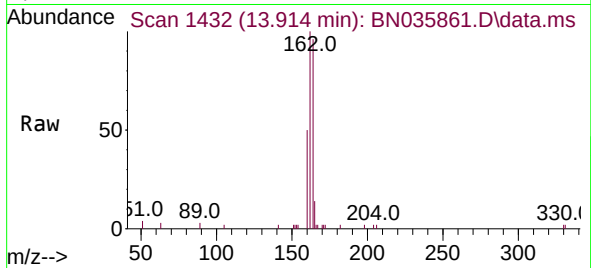




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

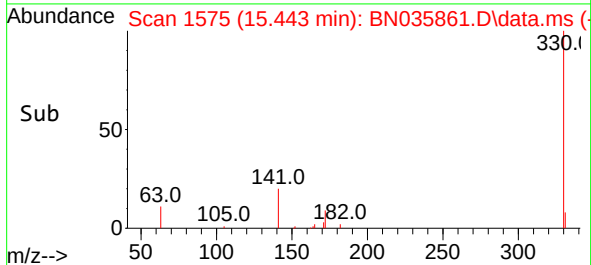
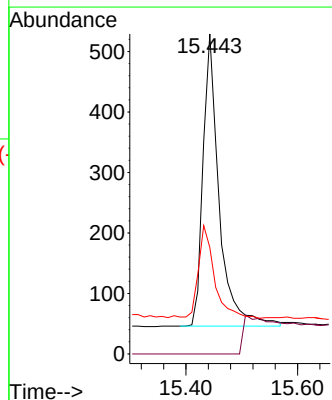
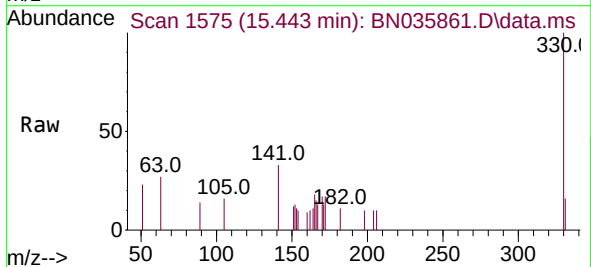
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

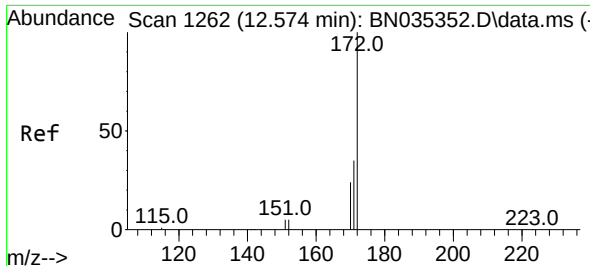
Tgt Ion:164 Resp: 4472
Ion Ratio Lower Upper
164 100
162 104.0 82.2 123.2
160 52.3 40.1 60.1



#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

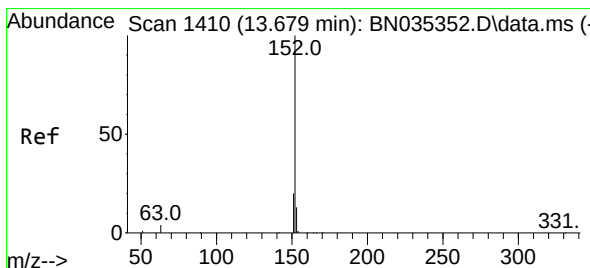
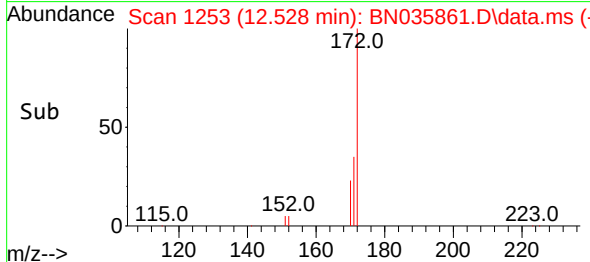
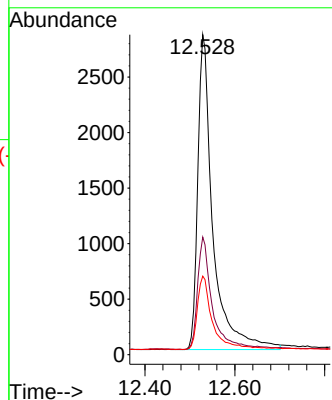
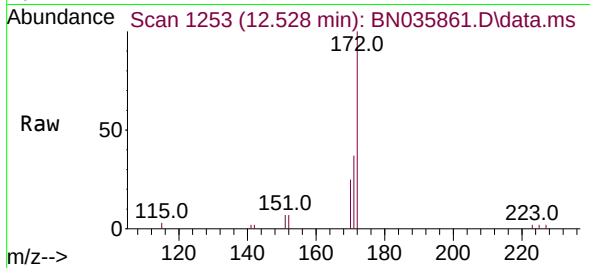




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

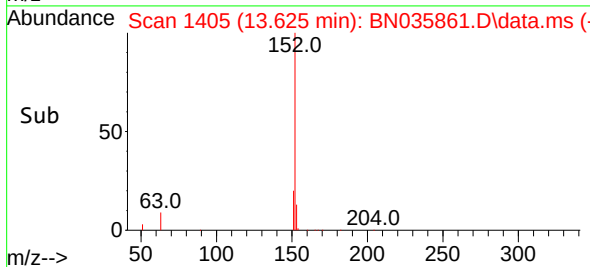
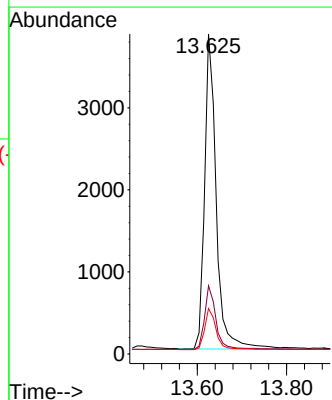
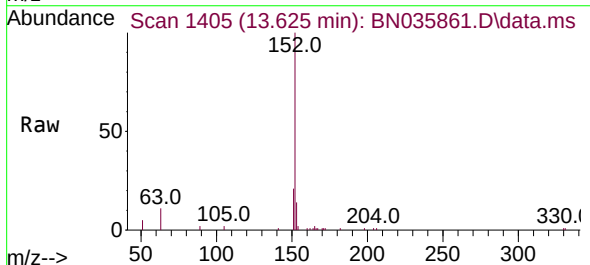
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

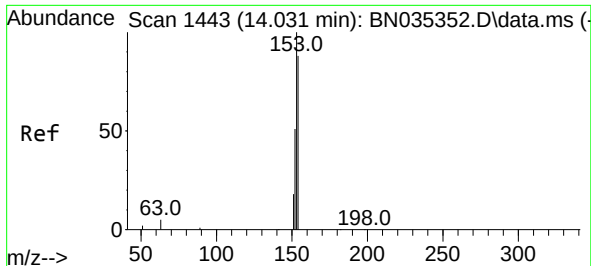
Tgt Ion:172 Resp: 6619
Ion Ratio Lower Upper
172 100
171 36.8 29.0 43.4
170 24.5 19.8 29.8



#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

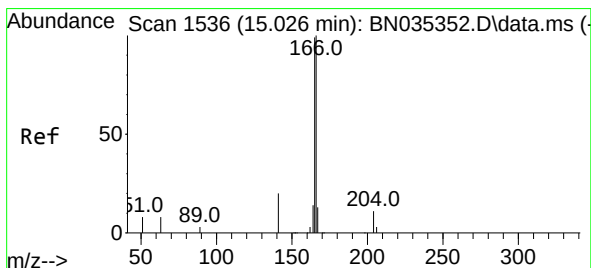
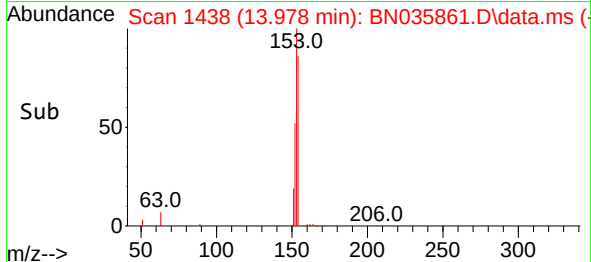
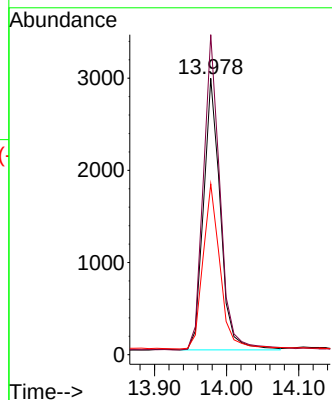
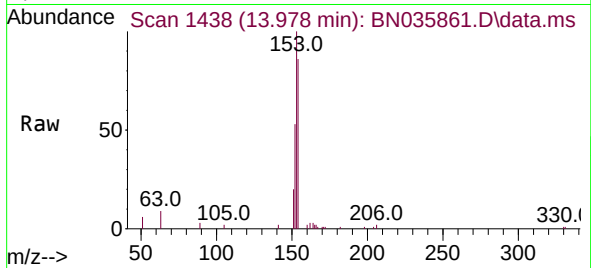




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

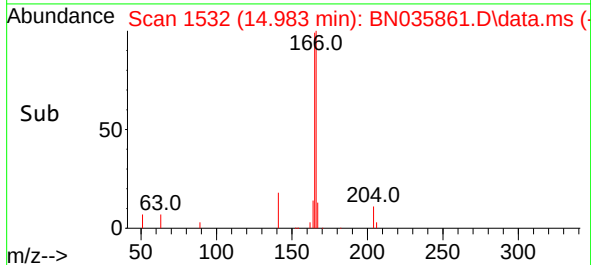
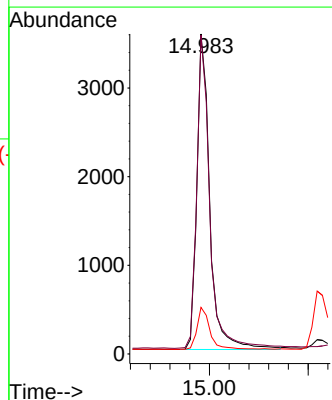
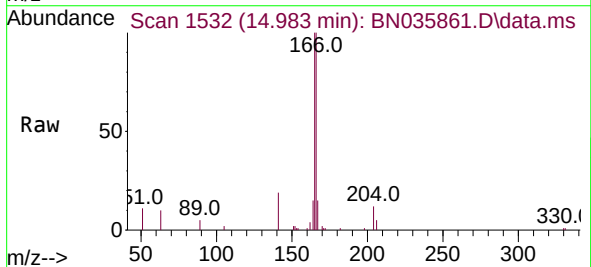
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

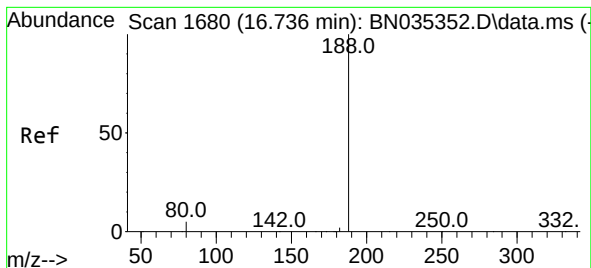
Tgt Ion:154 Resp: 4776
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 62.6 49.0 73.6



#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

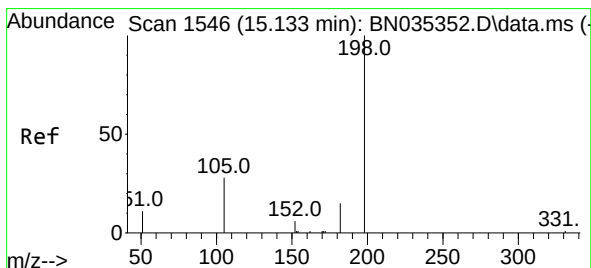
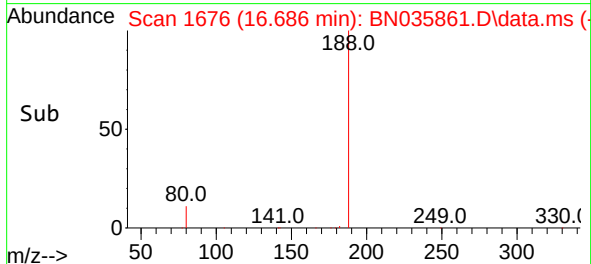
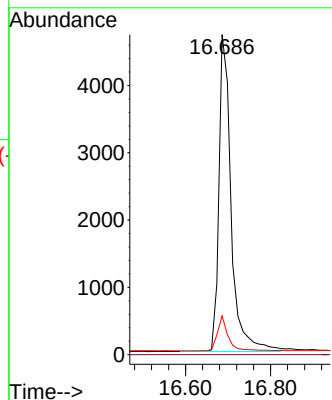
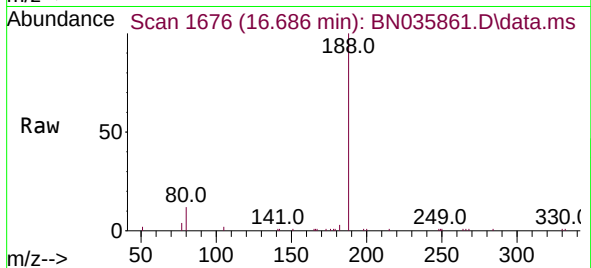
Tgt Ion:188 Resp: 9373

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

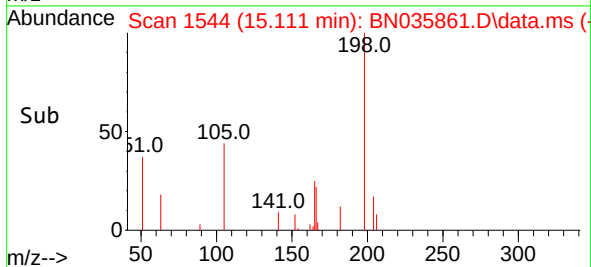
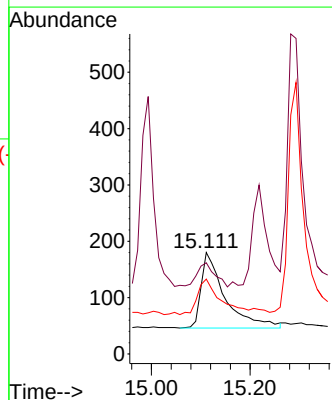
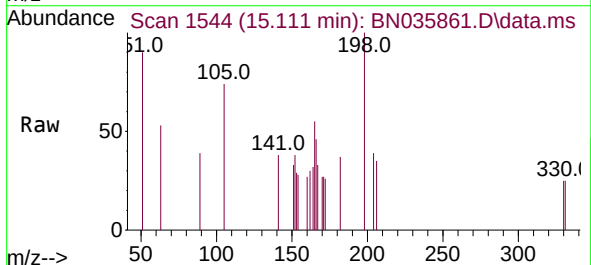
Tgt Ion:198 Resp: 453

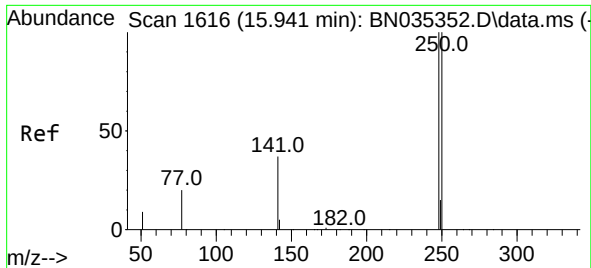
Ion Ratio Lower Upper

198 100

51 90.0 46.5 69.7#

105 73.9 45.3 67.9#

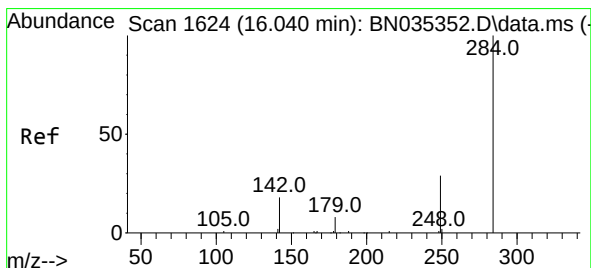
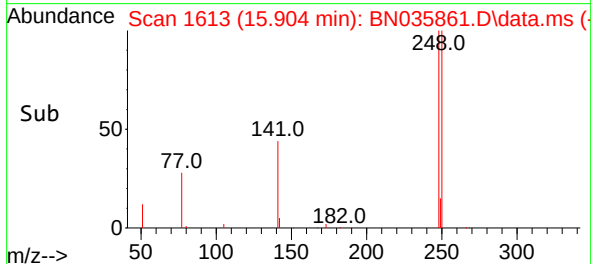
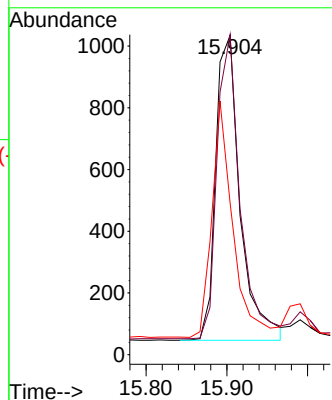
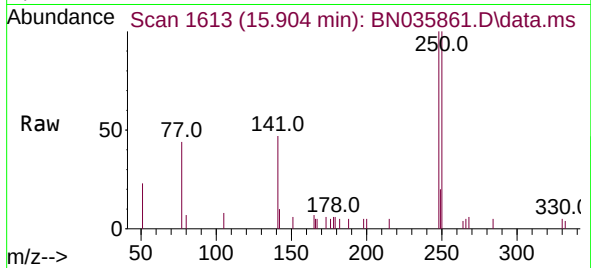




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

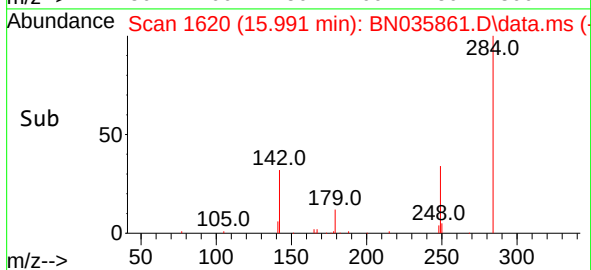
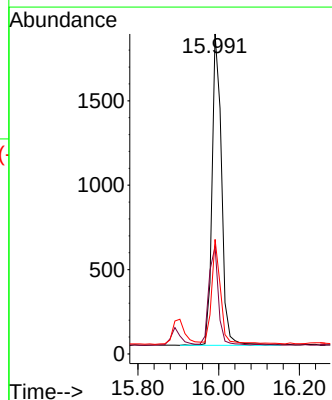
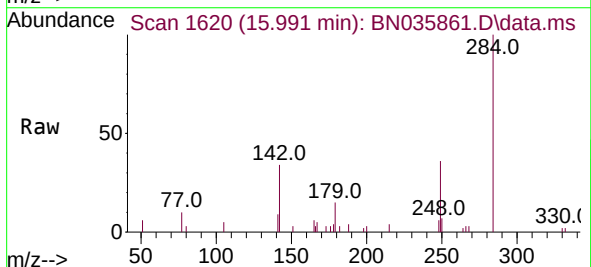
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

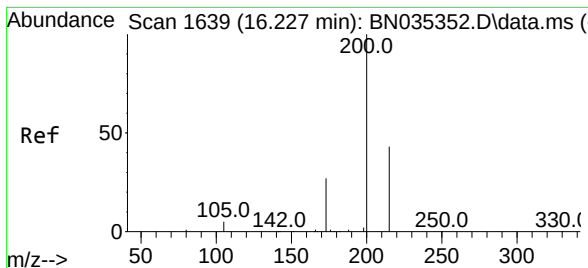
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3#



#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# 1

Delta R.T. -0.000 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

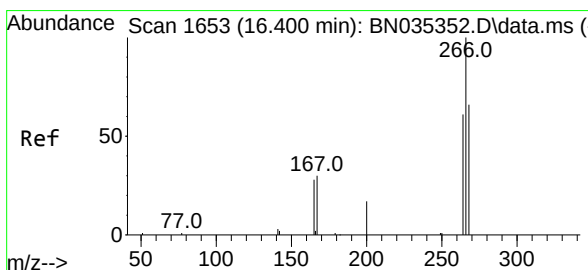
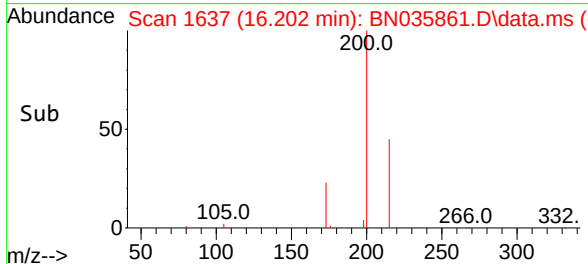
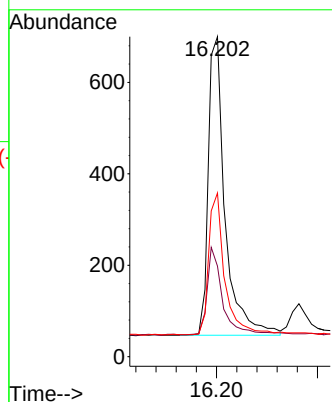
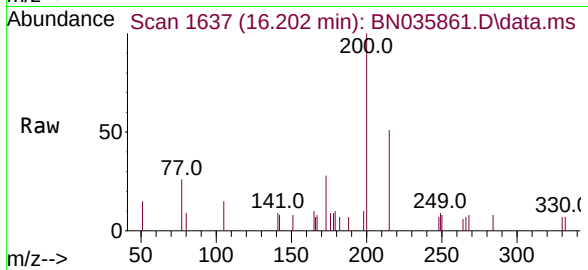
Tgt Ion:200 Resp: 1507

Ion Ratio Lower Upper

200 100

173 28.3 24.1 36.1

215 51.1 36.9 55.3



#24

Pentachlorophenol

Concen: 0.302 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

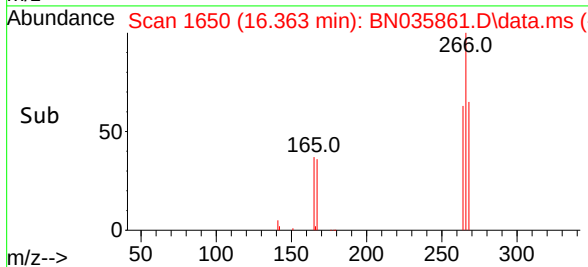
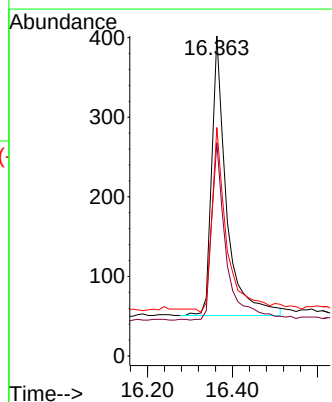
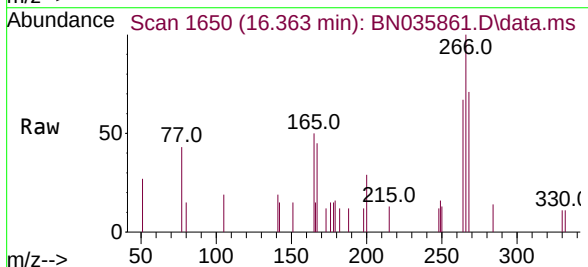
Tgt Ion:266 Resp: 846

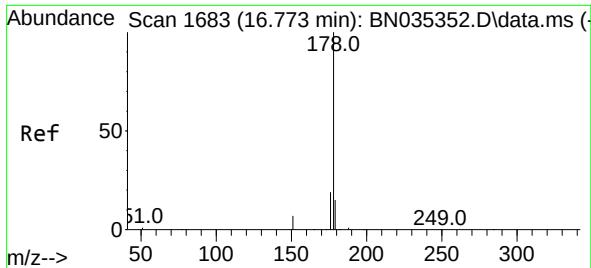
Ion Ratio Lower Upper

266 100

264 62.3 42.3 63.5

268 67.7 43.3 64.9#

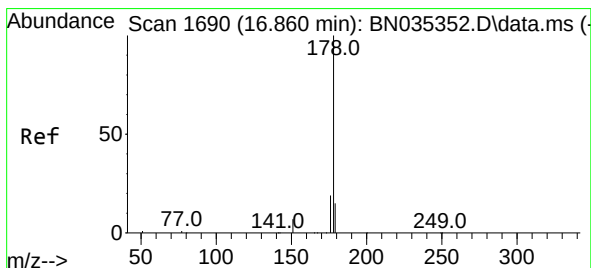
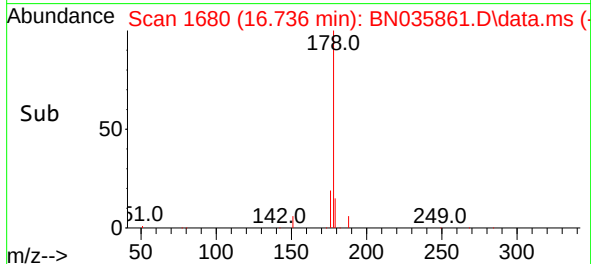
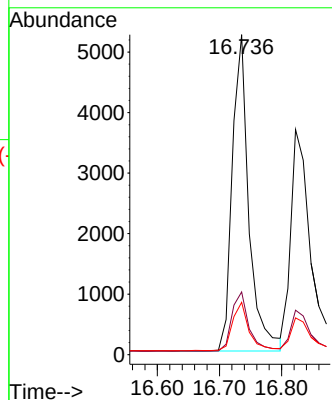
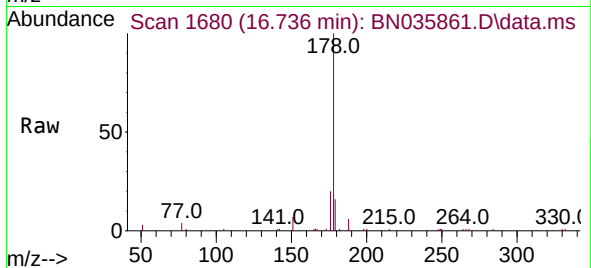




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

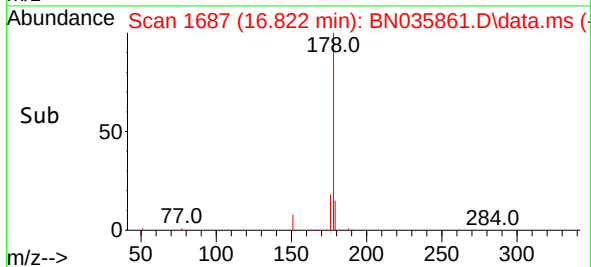
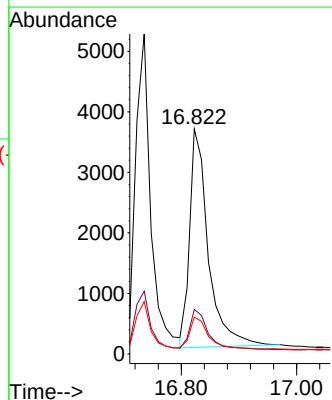
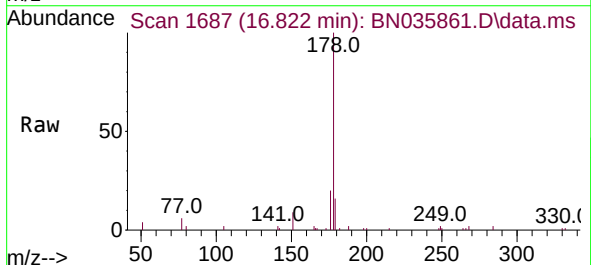
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

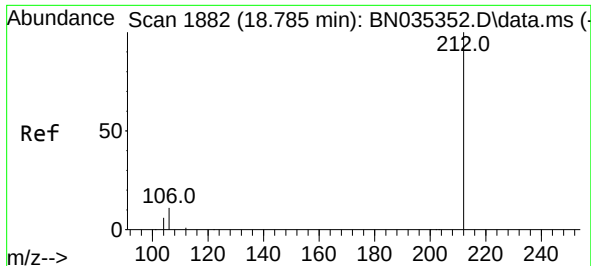
Tgt Ion:178 Resp: 9697
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.3 12.3 18.5



#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

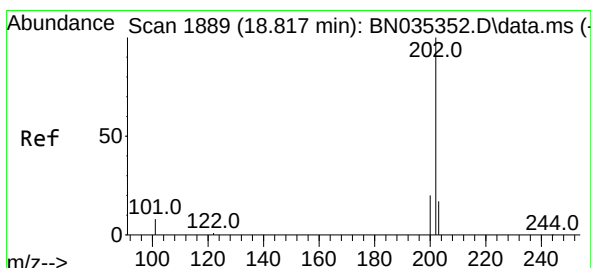
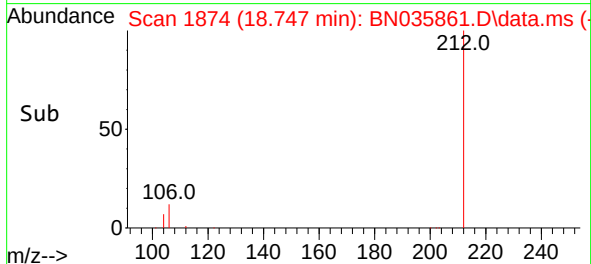
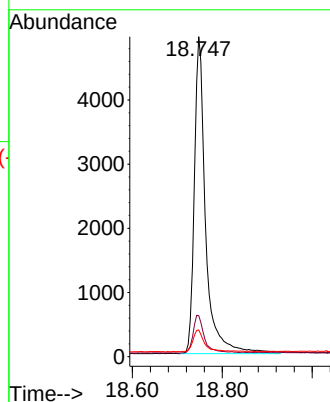
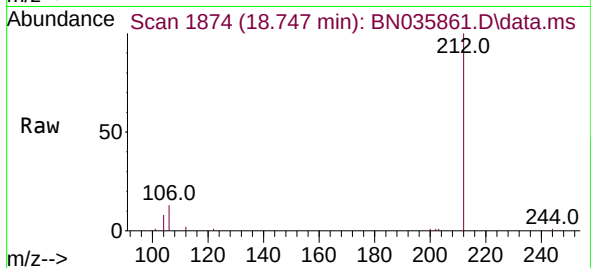
Tgt Ion:212 Resp: 8643

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

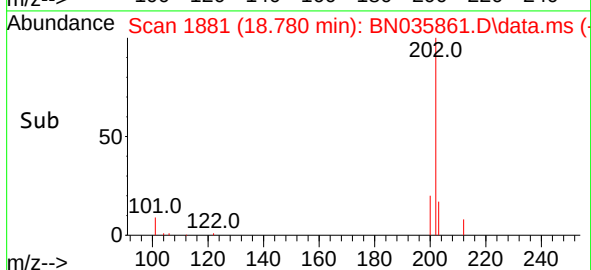
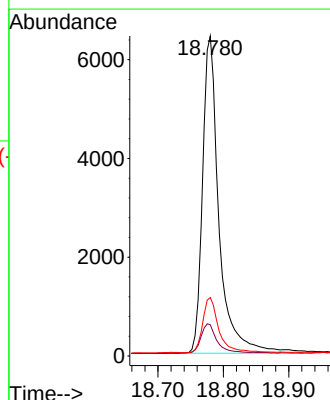
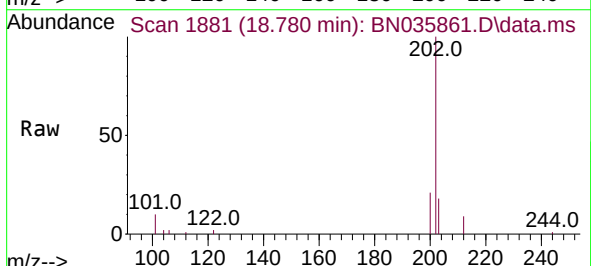
Tgt Ion:202 Resp: 11145

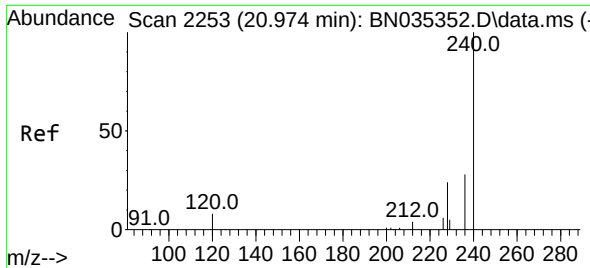
Ion Ratio Lower Upper

202 100

101 9.7 7.4 11.0

203 17.4 13.7 20.5

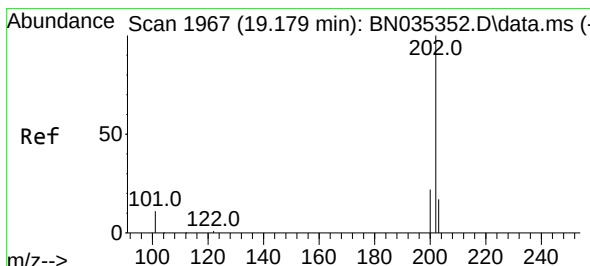
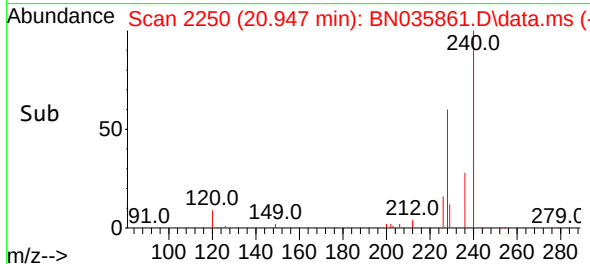
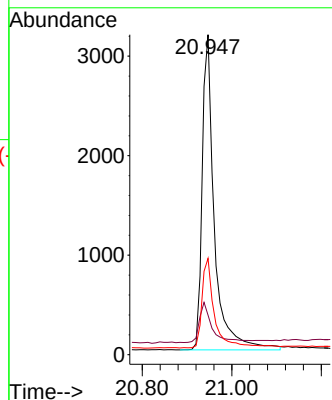
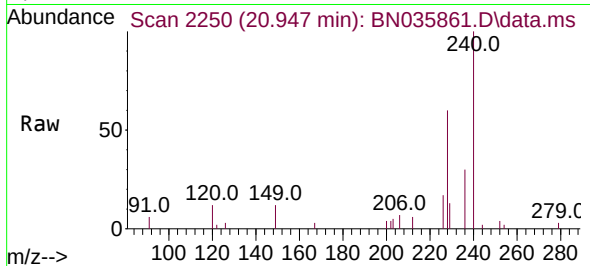




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

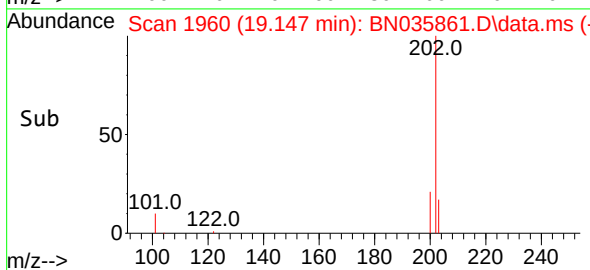
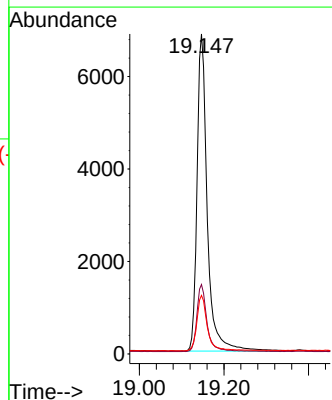
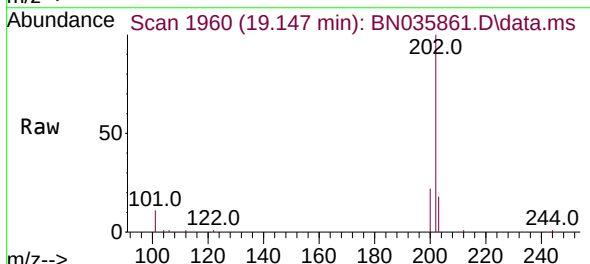
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

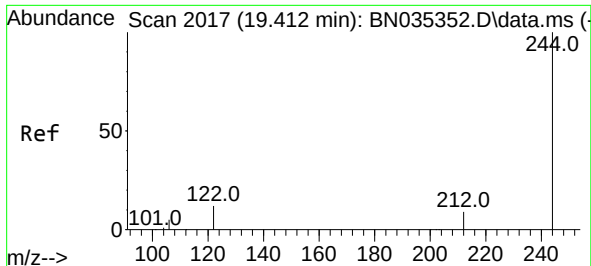
Tgt Ion:240 Resp: 6021
Ion Ratio Lower Upper
240 100
120 12.3 7.9 11.9#
236 30.1 22.9 34.3



#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

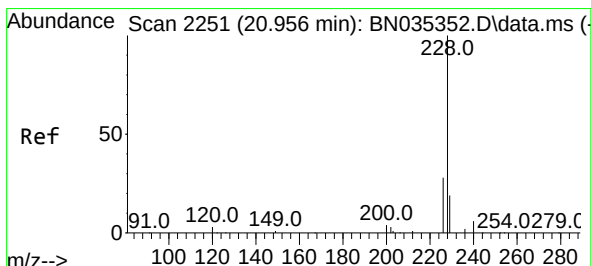
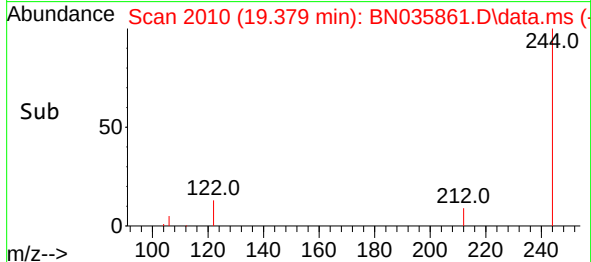
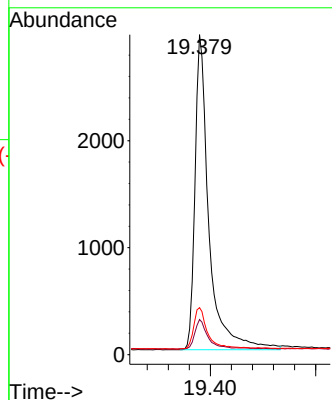
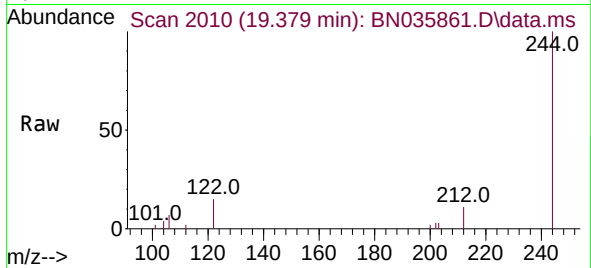




#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

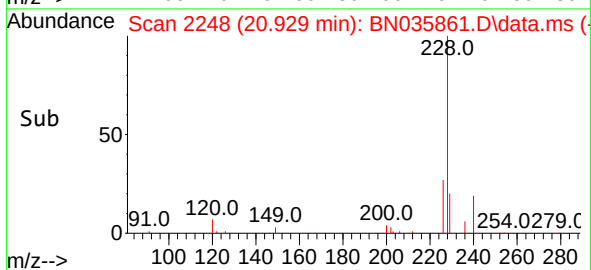
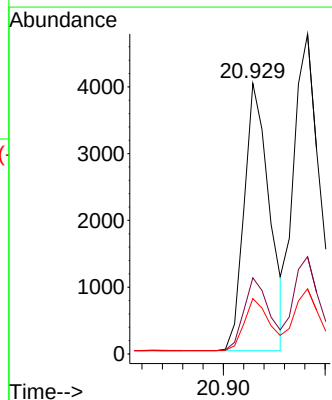
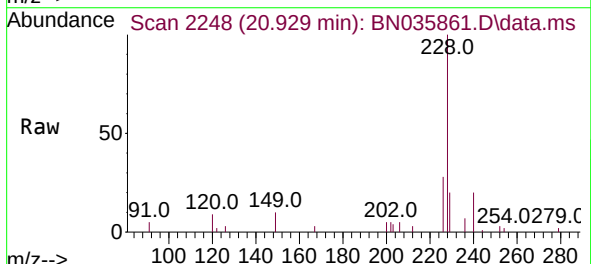
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

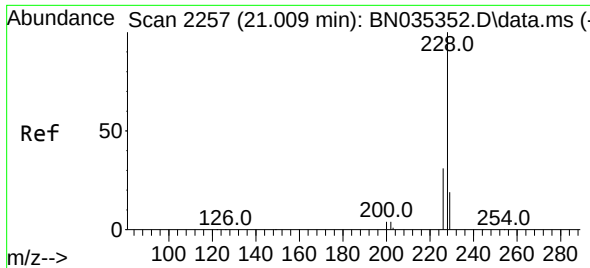
Tgt Ion:244 Resp: 5407
Ion Ratio Lower Upper
244 100
212 11.0 8.1 12.1
122 14.7 10.3 15.5



#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

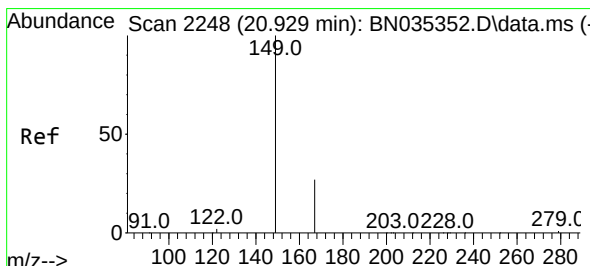
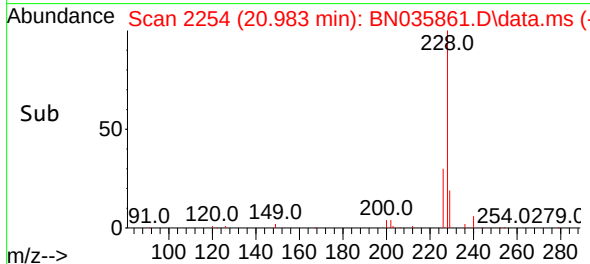
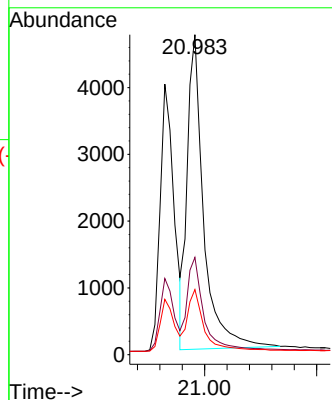
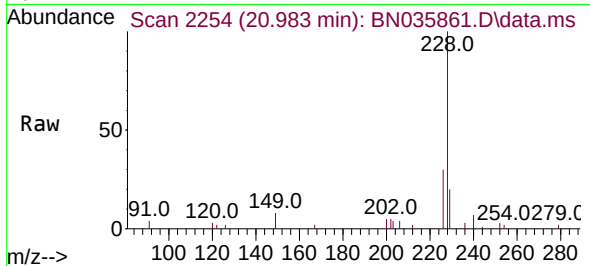




#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

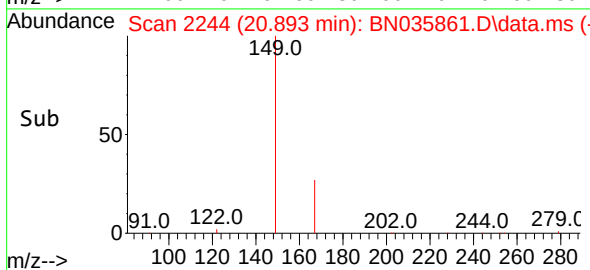
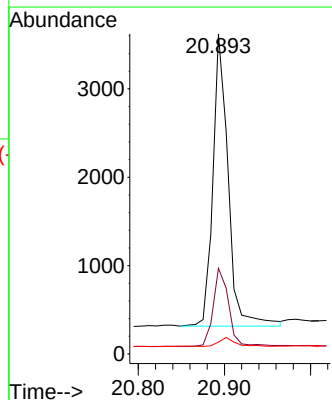
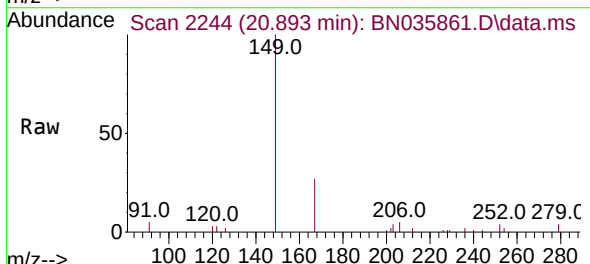
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

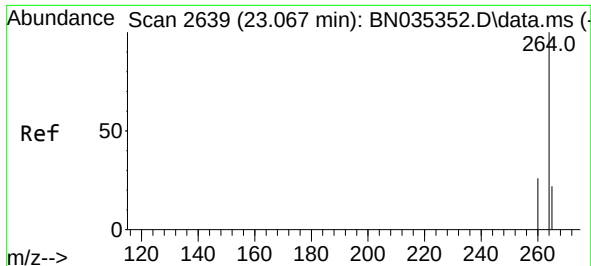
Tgt Ion:228 Resp: 9578
Ion Ratio Lower Upper
228 100
226 30.4 24.6 37.0
229 20.3 15.9 23.9



#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

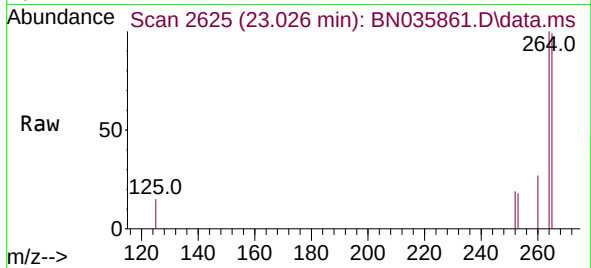
Tgt Ion:149 Resp: 4069
Ion Ratio Lower Upper
149 100
167 27.2 22.2 33.4
279 3.2 2.7 4.1



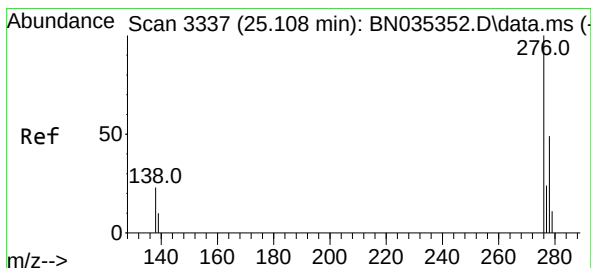
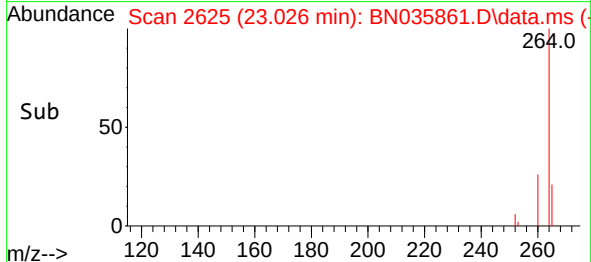
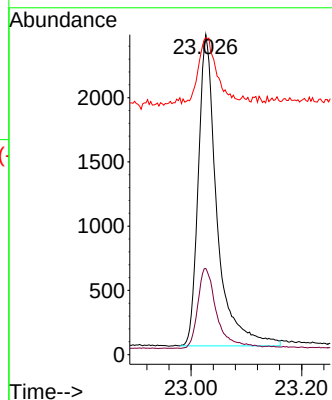


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

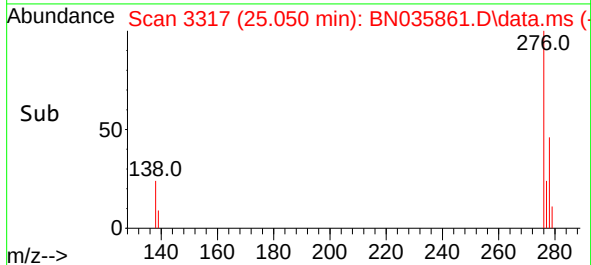
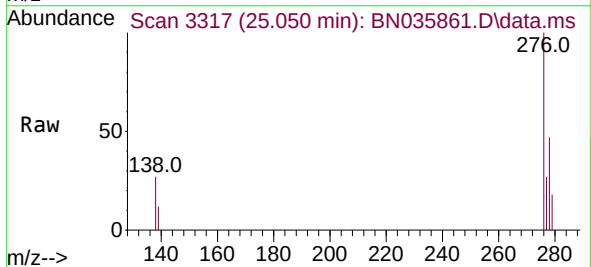
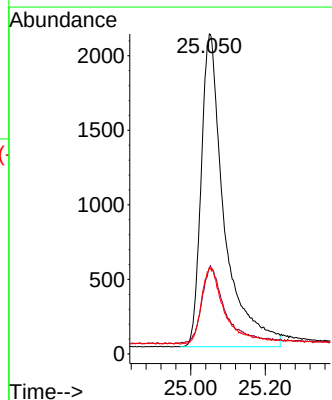


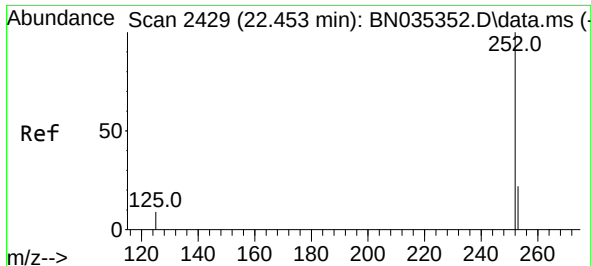
Tgt Ion:264 Resp: 5699
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 99.1 40.2 60.4#



#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

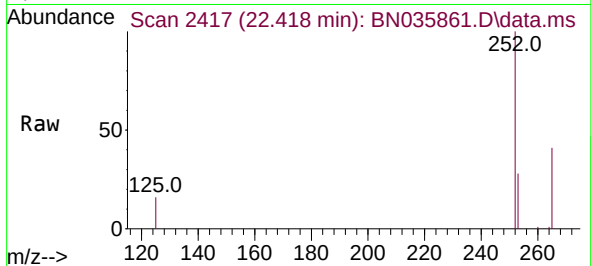
Tgt Ion:276 Resp: 9030
Ion Ratio Lower Upper
276 100
138 24.8 19.4 29.0
277 23.4 19.8 29.6



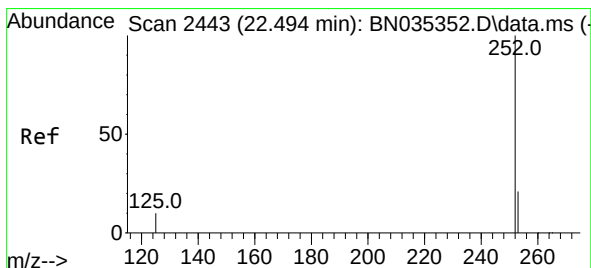
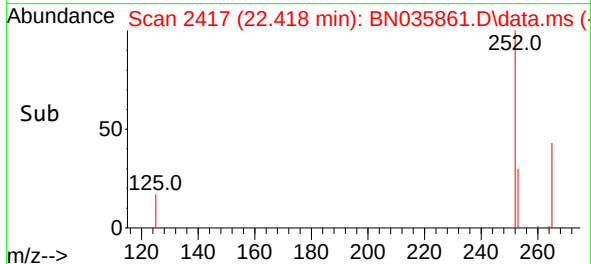
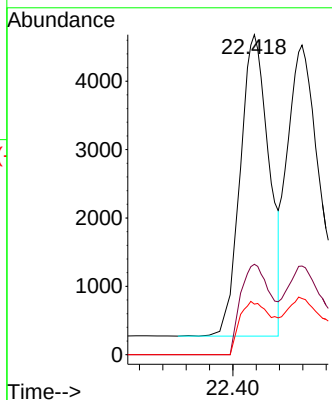


#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

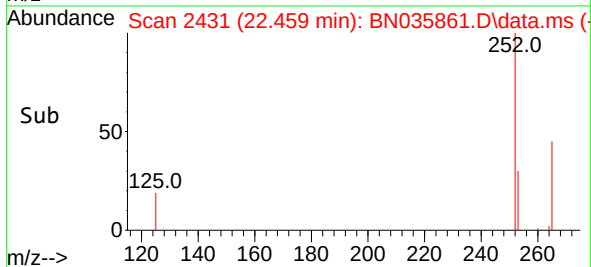
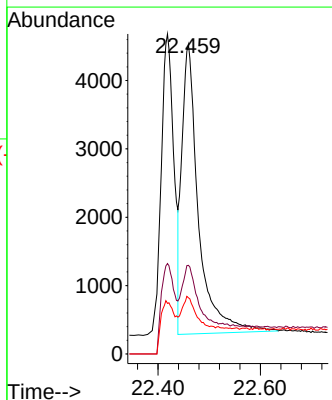
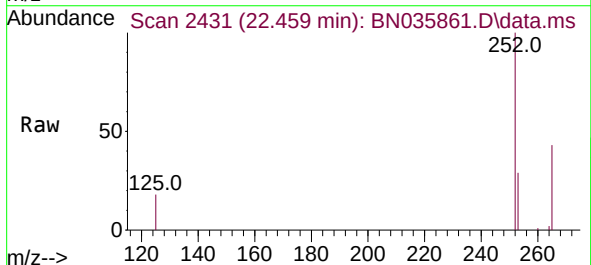


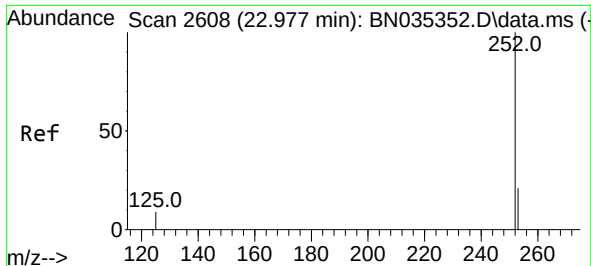
Tgt Ion:252 Resp: 11803
Ion Ratio Lower Upper
252 100
253 28.3 19.6 29.4
125 15.8 9.6 14.4#



#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

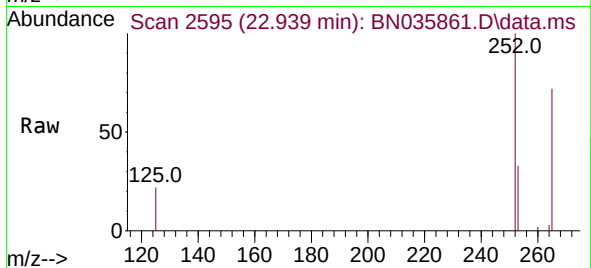
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



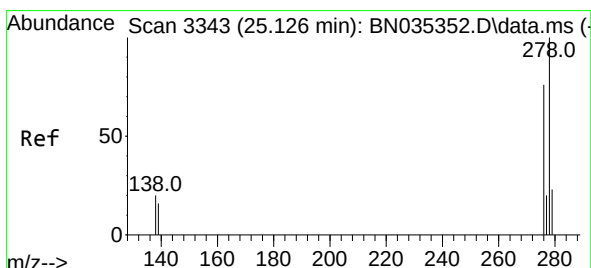
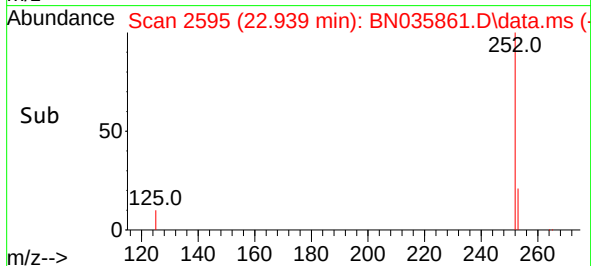
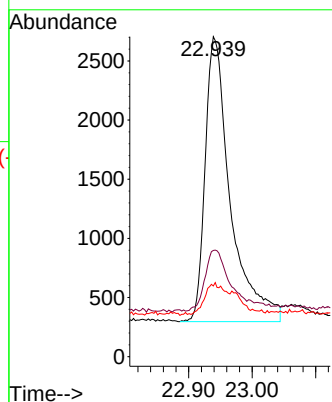
Tgt Ion:252 Resp: 6641

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

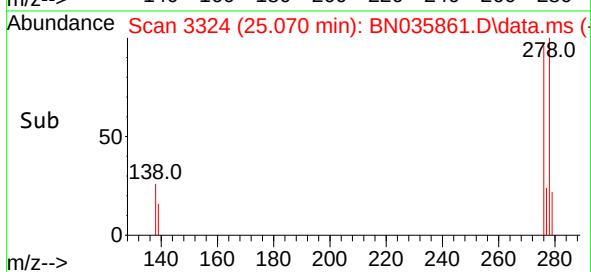
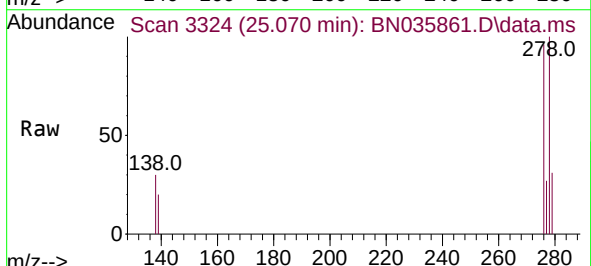
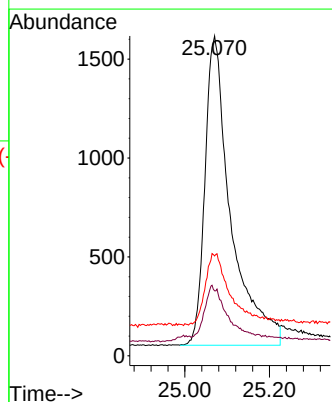
Tgt Ion:278 Resp: 6633

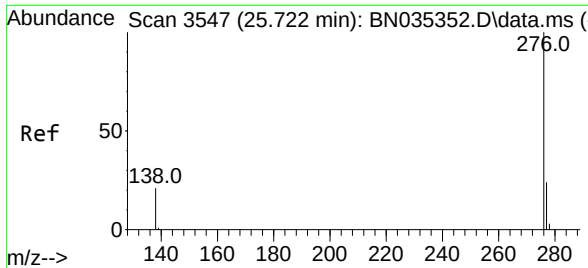
Ion Ratio Lower Upper

278 100

139 20.3 14.2 21.4

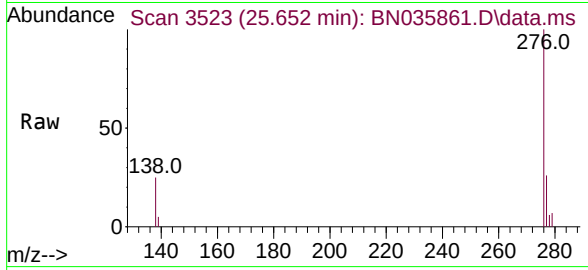
279 31.2 20.5 30.7#





#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

